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Equipment

3

Ejector Pins

17



Tooling Supplies

39



Shop Supplies

79



Cooling Products

89

Hot Runner

239



Polishing Supplies

249



Cutters & Trimmers

399



Release & Lubricants

423



Index

435



EQUIPMENT



Equipment

Ultrasonic cleaning units	6
Cleaning solutions	8
Microtec	12
Electrodes	13
Welding material	15



Equipment



USC S ...

Ultrasonic cleaning units



Features:

- Electronic time and temperature control
- Autostart temperature-controlled / temperature pre-selection
- High-performance transducer systems
- Dry run proof ceramic heating
- Quick degassing with Autodegas / Degas
- Improved cleaning performance with Sweep
- Safety switch-off

Includes:

- Unit, cover and basket

REF with heating	REF without heating
USCS10H	USCS10
USCS15H	USCS15
USCS30H	USCS30
USCS40H	USCS40
USCS60H	USCS60
USCS70H	USCS70
USCS80H	USCS80

REF with heating	REF without heating
USCS100H	USCS100
USCS120H	USCS120
USCS180H	USCS180
USCS300H	USCS300
USCS450H	-
USCS900H	-

USC S ...

Ultrasonic cleaning units



REF	Dimension	mesh size	Load
USCS10B	177 x 73 x 35 mm	7 x 1 mm	1 kg
USCS15B	112 x 103 x 50 mm	7 x 1 mm	1 kg
USCS30B	189 x 106 x 55 mm	7 x 1 mm	1 kg
USCS40B	190 x 105 x 80 mm	7 x 1 mm	3 kg
USCS60B	255 x 115 x 80 mm	9 x 1 mm	5 kg
USCS70B	465 x 106 x 55 mm	9 x 1 mm	5 kg
USCS80B	455 x 106 x 80 mm	9 x 1 mm	5 kg
USCS100B	255 x 200 x 80 mm	9 x 1 mm	6 kg
USCS120B	250 x 190 x 120 mm	9 x 1 mm	7 kg
USCS180B	280 x 250 x 120 mm	9 x 1 mm	8 kg
USCS300B	455 x 250 x 120 mm	9 x 1 mm	10 kg
USCS450B	455 x 270 x 194 mm	9 x 1 mm	20 kg
USCS900B	545 x 450 x 250 mm	16 x 1,2 mm	30 kg

Ultrasonic cleaning units

USC S ...

	REF	USC S10 USC S10H	USC S15 USC S15H	USC S30 USC S30H	USC S40 USC S40H	USC S60 USC S60H	USC S70 USC S70H
Tank volume max.	liter	0,8	1,75	2,75	4,25	5,75	6,9
Tank internal dim.	WxDxH mm	190x85x60	151x137x100	240x137x100	240x137x150	300x151x150	505x137x100
Tank external dim.	WxDxH mm	206x116x178	175x180x212	300x179x214	300x179x264	365x186x264	568x179x214
Ultrasonic frequency	kHz	37	37	37	37	37	37
Ultrasonic peak max*	W	240 *2)	280 *2)	320 *3)	560 *3)	600 *3)	600 *3)
Heating power	W	0 / 60	0 / 60	0 / 200	0 / 200	0 / 400	0 / 600
Power consumpt. tot.	W	30 / 90	35 / 95	80 / 280	140 / 340	150 / 550	150 / 750
Drain duct / Ø	mm	no	no	9,53	9,53	9,53	9,53
with heating (H)	220-240 Vac	100 1214	100 2060	100 1955	100 2006	100 2238	100 2140
without heating	220-240 Vac	100 5507	100 4626	100 4631	100 4635	100 4643	100 4650

	REF	USC S80 USC S80H	USC S100 USC S100H	USC S120 USC S120H	USC S180 USC S180H	USC S300 USC S300H	USC 450 H	USC 900 H
Tank volume max.	liter	9,4	9,5	12,75	18	28	45	90
Tank internal dim.	WxDxH mm	505x137x150	300x240x150	300x240x200	327x300x200	505x300x200	500x 300x300	600x500x300
Tank external dim.	WxDxH mm	568x179x264	365x278x264	365x278x321	390x340x321	568x340x321	615x370x467	715x570x467
Ultrasonic frequency	kHz	37	37	37	37	37	37	37
Ultrasonic peak max*	W	600 *3)	600 *3)	800 *3)	800 *3)	1200 *3)	1600 *3)	3200 *3)
Heating power	W	0 / 600	0 / 400	0 / 800	0 / 800	0 / 1200	1600	2000
Power consumpt. tot.	W	150 / 750	150 / 550	200 / 1000	200 / 1000	300 / 1500	2000	2800
Drain duct / Ø	mm	9,53	9,53	9,53	9,53	9,53	12,7	12,7
with heating (H)	220-240 Vac	100 2170	100 2279	100 2825	100 2877	100 3033	100 3908	100 3946
without heating	220-240 Vac	100 4652	100 4655	100 4658	100 4662	100 4669	-	-

* The choice of the waveform has been matched to the relevant tank size. *2) Impulse waveform *3) Standard sine-wave modulation

Cleaning solution

USC A1

Features:

- Cleaning concentrate (alkaline) for electronics and fine optics.
- Removes light oils, grease, fluxing agents, dust, finger prints, etc.

REF	L
USCA12-5	2,5
USCA110	10
USCA125	25

Cleaning solution

USC A2

Features:

- Intensive cleaner (ammoniacal) with brightening effect for non-ferrous and precious metals.
- Removes grinding, polishing and lapping media, grease, oil, etc.

REF	L
USCA22-5	2,5
USCA210	10
USCA225	25

USC A3

Cleaning solution

REF	L
USCA32-5	2,5
USCA310	10
USCA325	25

Features:

- Cleaning concentrate (alkaline) for iron, steel, stainless steel and precious metals.
- Removes punching oil, drawing grease, soot, forge, grinding and polishing media, high-performance cooling lubricants, etc

USC A4

Cleaning solution

REF	L
USCA42-5	2,5
USCA410	10
USCA425	25

Features:

- Universal cleaning concentrate (alkaline)
- Removes oil, grease, soot, coking, forge, dust, finger prints, etc.

USC A5

Cleaning solution

REF	kg
USCA50-85	0.85
USCA525	25

Features:

- Powerful cleaner (alkaline) in powder form for iron and light metals.
- Removes forged and gummed oil and grease, grinding and polishing media, lacquer and paint remnants, wax, etc.

USC N1

Cleaning solution

REF	L
USCN12-5	2,5
USCN110	10
USCN125	25

Features:

- Neutral cleaning concentrate.
- Removes oil, grease, grinding, lapping and polishing media, dust, sweat, finger prints, etc.

USC S1

Cleaning solution

REF	L
USCS12-5	2,5
USCS110	10
USCS125	25

Features:

- Mild acid cleaning concentrate.
- Removes rust, lime, oxide films (e.g. verdigris), grease, oil, etc.

USC S2

Cleaning solution

REF	L
USCS22-5	2,5
USCS210	10
USCS225	25

Features:

- Strong acid cleaning concentrate.
- Removes mineral contaminations such as lime, rust and other oxides, films that can be removed with corrosives, etc.

Cleaning solution (25 kg)

EC 100

Features:

- For abrasive and polishing paste, resin, drawing compound

REF

EC100

Cleaning solution (25 kg)

EC 145

Features:

- For abrasive and polishing paste, light oil and grease contamination

REF

EC145

Dry blasting cabinets

TR 70 / TR 70 EA

Features:

- Blasting cabinet with high blasting capacity and push-up front door.
- Special model with turntable available on request.
- Appropriate dust separator TR 70 K 10
- TR 70 EA with push-up side door

REF

TR70

TR70EA



Dry blasting cabinets

TR 80

Features:

- Blasting cabinet with folding front door and lateral slides for passage of rod materials, incl.
- Special model with turntable available on request.
- Other dimensions upon request

REF

TR80



Description	TR 70	TR 70 EA	TR 80
Dimensions W x H x D	700 x 600 x 1.800 mm	700 x 600 x 1.800 mm	800 x 900 x 1.680 mm
Internal dimensions W x H x D	680 x 550 x 450 mm	680 x 550 x 450 mm	780 x 800 x 700 mm
Air consumption	18-50 m ³ / 5 bar	18-50 m ³ / 5 bar	35-70 m ³ / 5 bar

TR ... K



Dust separator

Features:

- Equipped with cartridge filter and mechanical shaking device

REF	L x W x H	Power	Exhaust capacity
TR80K15	670 x 800 x 970 mm	0,55 W	15m³/min

DO 2000



Compact portable suction unit

Features:

- professional lab dust extraction unit
- for sandblaster, bench, trimmer
- improved new motor
- reliable and solid construction
- power regulator 400-1000 W
- ready for all sandblasters
- ready for most popular benches
- special BIA tissue filters (4 pcs Included)
- decibel 62-69
- dimensions 33x25x38 cm
- weight 12 kg
- Price upon request

REF	Description
DO 2000	suction unit
DO 2010	suction arm
DO 2020	4 x filter bags

STK ...



Steel corundum

Features:

- Preferably used for cleaning operations and descaling.
- Successfully applied also for deburring operations, also for reproduceable decorative blasting operations.
- Abrasive effect.

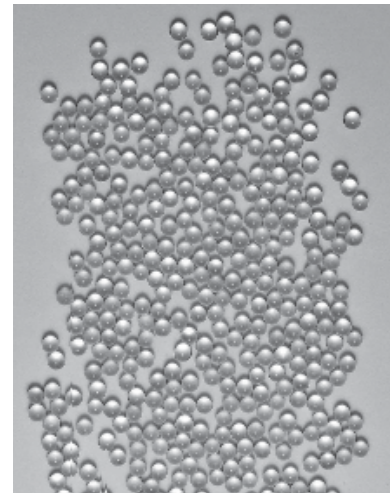
REF	Grain	kg
STK012006012	0,06 - 0,12 mm	25
STK025012025	0,12 - 0,25 mm	25
STK050025050	0,25 - 0,50 mm	25
STK10050100	0,50 - 1,00 mm	25

Glass beads

STP ...

Features:

- Generally applied for simple cleaning operations or polished surfaces of silk-dull finish.
- Compressing of work piece surfaces, STP 200 is also suitable for deburring operations.
- Can be used for all materials.



REF	Grain	kg
STP050	0 - 50 µm	25
STP070	40 - 70 µm	25
STP110	70 - 110 µm	25
STP150	90 - 150 µm	25
STP200	100 - 200 µm	25

Ceramic

STC ...

Features:

- Used for simple, gentle cleaning operations, silk-dull surface finish will be obtained.
- Compression of work piece surfaces.
- Preferably used for all kind of metals.
- Service life is up to 20-times higher compared to glass beads.



We can also supply the following products:

As well as glass beads, corundum and ceramic blasting agents, we can also supply other mineral and abrasive agents if required.

- Ceramic jet nozzles: Ø = 6, 8, 10 mm
- Boron carbide jet nozzles: Ø = 6, 8, 10, 12 mm
- Protective gloves: Size: 10

REF	Grain	kg
STC12500000125	0 - 0,125 mm	25
STC12000700250	0,070 - 0,125 mm	25
STC06001250250	0,125 - 0,250 mm	25
STC04002500425	0,250 - 0,425 mm	25
STC03004250600	0,425 - 0,600 mm	25
STC02006000850	0,600 - 0,850 mm	25



Standard equipment

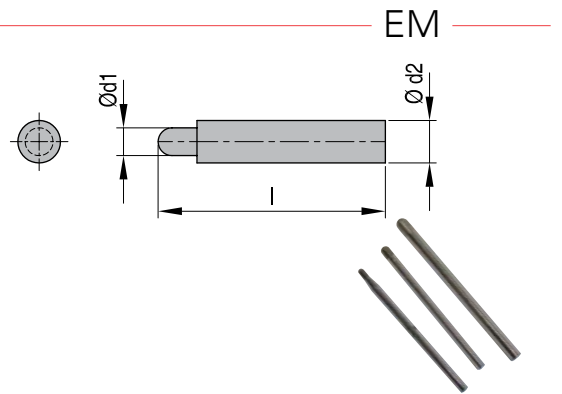
- Control unit, mains cable, foot switch cable for electrode holder (1300 mm), ground cable (1300 mm) with copper ground plate (2 x 20 x 100 mm)
- Electrode holder, black Ø 2, 3, 4 and 5 mm (1 off each)
- Electrode holder, brown Ø 3, 4 mm (1 off each)
- Magnetic electrodes Ø 2 x 50 mm, Ø 3x 50 mm, Ø 4 x 50 mm, Ø 4 x 60 mm (1 off each)
- Standard electrodes Ø 2 x 50 mm, Ø 3 x 50 mm, Ø 4 x 50 mm (1 off each)
- Standard flat electrodes 1,2 x 5 x 35 mm
- Adapter for clamping of flat electrodes
- Tool cabinet
- Sheet metal shears
- 1 pair of protective gloves
- 1 off protective glasses
- 1 off adhesive tape
- 1 off spare fuse
- Welding powder (50 g each):
MP 66/ N 51 (approx. 63 HRC)
MP 70/ N 80 (approx. 38 - 40 HRC)
- Sheet metal strips (10 off each):
NAK 80- 0,1 x 5 x 100 mm, approx 38-40 HRC
NTA 1 - 0,1 x 30 x 70 mm, approx.135 HV
NTA 2 - 0.2 x 30 x 70 mm, approx.135 HV

Technical data	Microtec 1500 S
Input voltage	230 V, 50 - 60 Hz
Charging voltage	600 VA
Control system	SCR pulse system
Cycle time	0,2 - 0,4 sec.
Power output	700 W
Output voltage	0 - 9 V
Output current	0 - 1100 A
Dimensions WxDxH	165 x 450 x 405 mm
Weight	28 kg

REF
MT1500S

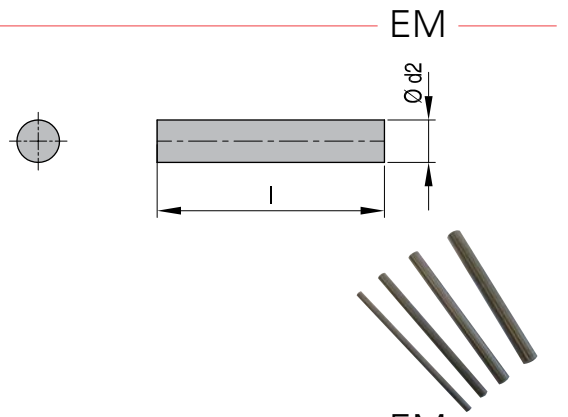
Magnetic electrodes for powder

REF	d1	d2	l
EM-R2	2	3	50
EM-R3	3		
EM-R4	4	4	60
EM-R5	5	5	



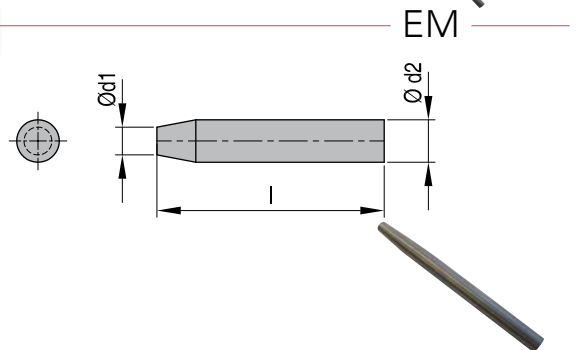
Magnetic electrodes for powder

REF	d1	d2	l
EM210	-	2	50
EM211	-	3	
EM212	-	4	
EM213	-	5	



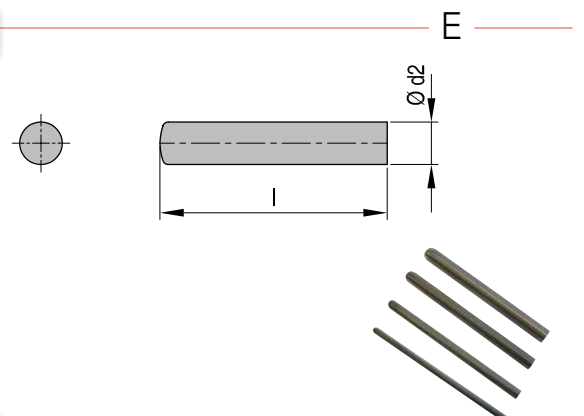
Magnetic electrodes for powder

REF	d1	d2	l
EM-T4	1,5	4	50
EM-T5	2,5	5	



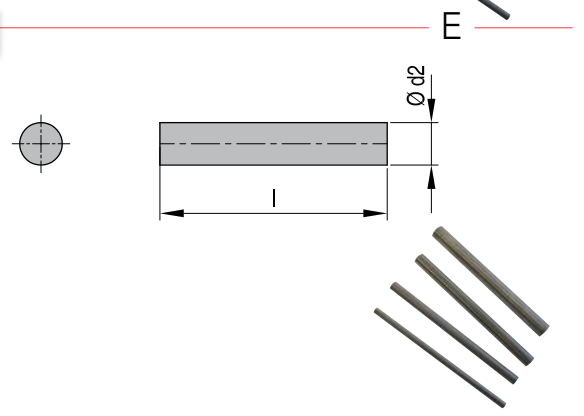
Standard electrodes

REF	d1	d2	l
E-R22	-	2	50
E-R33	-	3	
E-R44	-	4	
E-R55	-	5	



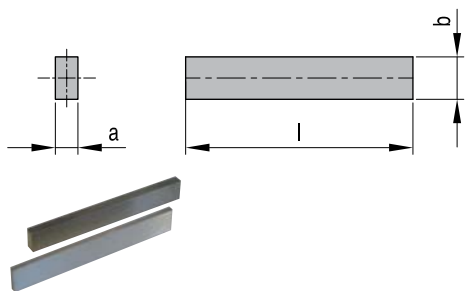
Standard electrodes

REF	d1	d2	l
E201	-	2	50
E202	-	3	
E203	-	4	
E204	-	5	



E

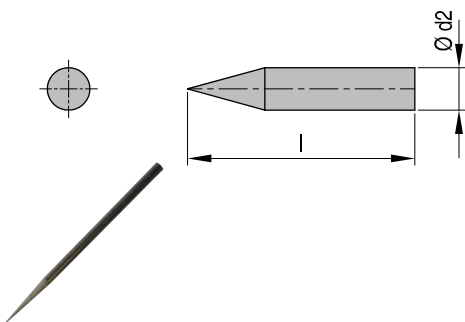
Standard electrodes



REF	d1	d2	l
E205	1,2	5	35
E206	2,2		

E

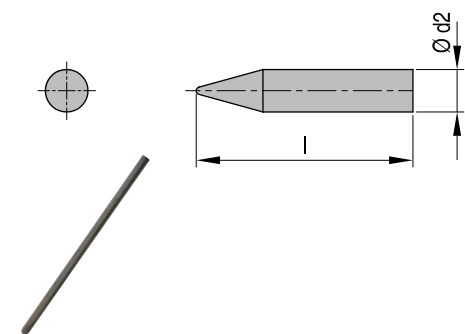
Standard electrodes



REF	d1	d2	l
ESP2	-	2	45

E

Standard electrodes



REF	d1	d2	l
E-SR 2	-	2	45

H / A

Electrode holder / Adapter



REF	suitable for electrodes		REF	suitable for electrodes
H-301	EM-210, E-R22, E-201, E-SP2, E-SR2	ø 15 mm	A-403	E-205
H-302	EM-R2, EM-R3, EM211, E-R33, E-202	ø 15 mm	A-404	E-206
H-303	EM-R4, EM212, EM-T4, E-R44, E-203	ø 15 mm		
H-304	EM-R5, EM213, EM-T5, E-R55, E-204	ø 15 mm		
H-306	EM-210, E-R22, E-201, E-SP2, E-SR2	ø 12 mm		
H-307	EM-R2, EM-R3, EM211, E-R33, E-202	ø 12 mm		

Welding material - wire

MTD ...

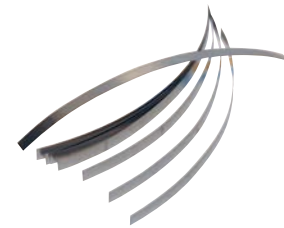
REF	Designation	Ø	Hardness	for steel types
MTD1	S 2	0,2	90 HRB	All mold steels
MTD2	S 3	0,3		
MTD3	S4	0,4		
MTD4	S5	0,5		



Welding material - sheet

MTB ...

REF	Designation	Dim.	Hardness	for steel types
MTB1	NT 6	0,2 x 5 x 100 mm	30 HRC	All mold steels
MTB2	NTA 1	0,1 x 30 x 70 mm	135 HV	
MTB3	NTA 2	0,2 x 30 x 70 mm	135 HV	
MTB4	NS 1	0,1 x 30 x 70 mm	90 HRB	
MTB5	NS 2	0,2 x 30 x 70 mm	90 HRB	
MTB6	NAK 80	0,1 x 5 x 100 mm	38-40 HRC	preheat-treated steel
MTB7	NAK 80	0,2 x 5 x 100 mm	38-40 HRC	1.2311
MTB8	HPM 2	0,1 x 5 x 100 mm	30-35 HRC	
MTB9	HPM 2	0,2 x 5 x 100 mm	30-35 HRC	preheat-treated steel
MTB10	NAK 55	0,1 x 5 x 100 mm	38-41 HRC	
MTB11	NAK 55	0,2 x 5 x 100 mm	38-41 HRC	All mold steels
MTB12		0,1 x 50 x 70 mm	45-48 HRC	
MTB13		0,2 x 50 x 70 mm	45-48 HRC	Stavax
MTB14		0,2 x 5 x 100 mm	40-42 HRC	



Electrode holder / Adapter

H / A

REF	suitable for electrodes		REF	suitable for electrodes
H-303	EM-R4, EM212, EM-T4, E-R44, E-203	Ø 15 mm	A-403	E-205
H-304	EM-R5, EM213, EM-T5, E-R55, E-204	Ø 15 mm	A-404	E-206
H-306	EM-210, E-R22, E-201, E-SP2, E-SR2	Ø 12 mm		
H-307	EM-R2, EM-R3, EM211, E-R33, E-202	Ø 12 mm		

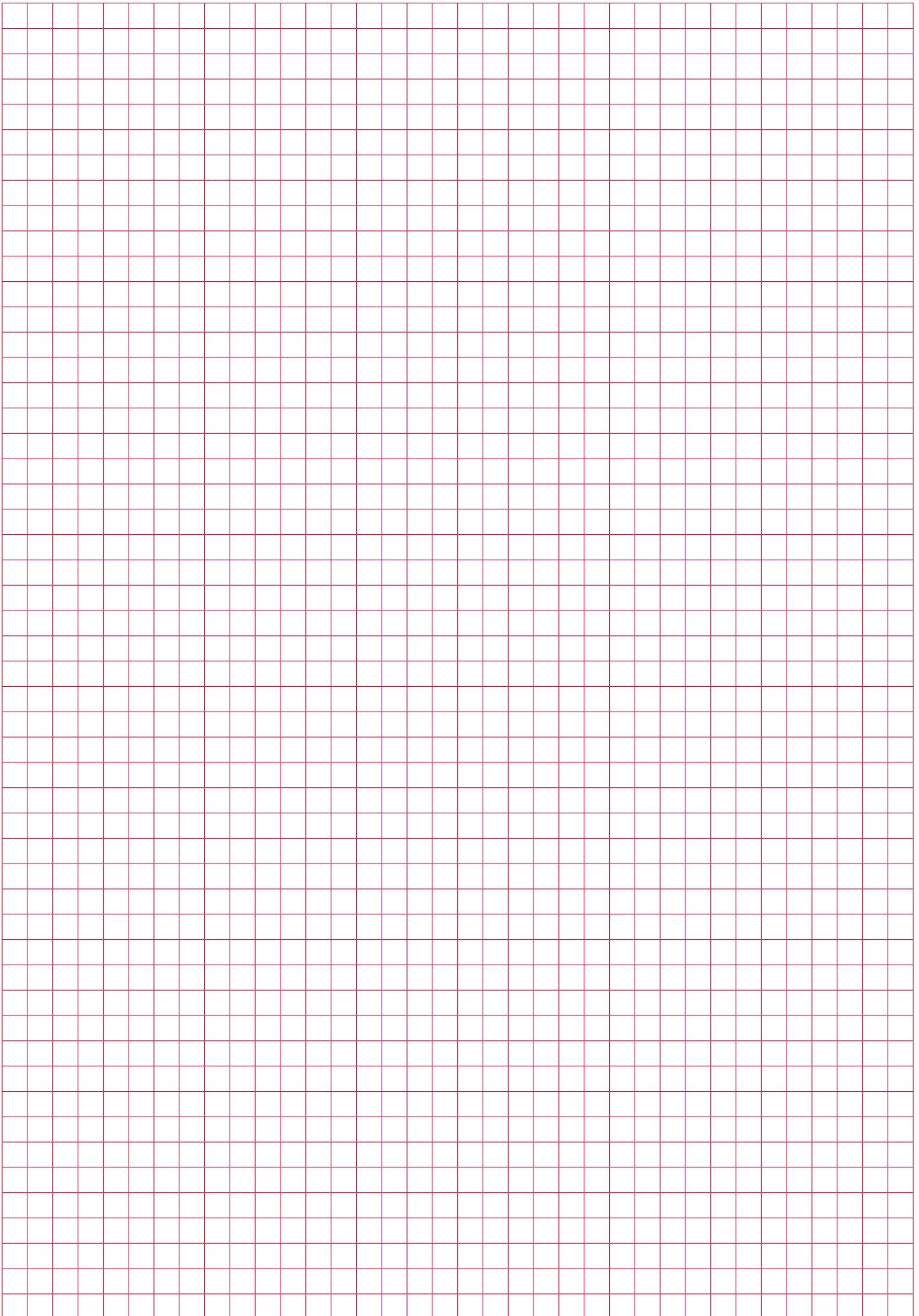


Welding material - powder

MTP ...

REF	Designation	Hardness	for steel types
MTP1	N 90	16-20 HRC	All mold steels (esp. Ni alloys)
MTP2	N 51	63 HRC	1.3343, all mold steels
MTP3	N 11	50 HRC	Heat-treated steels
MTP4	N 61	51 HRC	1.2343, 1.2344
MTP5	N 70	50-55 HRC	All mold steels
MTP6	N 80	38-40 HRC	1. 2711
MTP7	N 55	34-41 HRC	Heat-treated steels
MTP8	N 39	50-52 HRC	Stavax
MTP9	SP 80	38-40 HRC	Preheat-treated steels
MTP10	SP 55	38-41 HRC	Preheat-treated steels
MTP11	N 5	54-56 HRC	1.2162, All mold steels
MTP12	N 6	38-45 HRC	1.2343, 1.2344
MTP13	N 14	30 HRC	1.2311, 1.2312
MTP14	N 15	30-35 HRC	1.2764
MTP15	N16	30-35 HRC	1.2767







EJECTOR PINS



Ejector Pins

Ejector Pins	20
Core Pins	25
Flat Ejector Pins	31
Stainless Steel Pins	33
DLC Ejector Pins	34
Specials	36



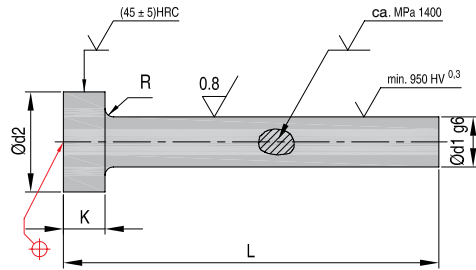
Ejector Pins

During plastic injection molding and die casting operations, no other single mold or die component takes the beating ejector pins take. They're always on the move. Always fighting friction. Thermal stress. Mechanical stress. And therefore, they're always in danger of galling, seizing, bending or breaking if they're not made of high quality steel with uniform strength - if they're not hot-forged properly - or if they're not nitrided to exact specifications for case depth and hardness. Heads annealed for easy machining.



EPA05

Type A - Nitrided



Info

d1 = Pin body \varnothing
 d2 = Head \varnothing
 K = Head thickness
 L = Length
Standard: DIN1530/ISO6751
Mat.: WAS (~1.2344), pre-hardened
Max. Temp.: 500-550 °C
Surface roughness: Ra

Order example for first item (REF + L): **EPA0501-000100**

REF	d1 ø6	d2 ø -0.2	K -0.05	R +0.2 0	L ⁺² ₀															
					0100	0125	0160	0200	0250	0315	0400	0500	0630	0800	1000	1250				
EPA0501-00*	01,00	2,5	1,2	0,2																
EPA0501-20*	01,20	2,5	1,2	0,2																
EPA0501-00*	01,00	3,0	1,5	0,2																
EPA0501-20*	01,20	3,0	1,5	0,2																
EPA0501-50*	01,50	3,0	1,5	0,2																
EPA0501-60*	01,60	3,0	1,5	0,2																
EPA0501-70*	01,70	3,0	1,5	0,2																
EPA0502-00*	02,00	4,0	2,0	0,2																
EPA0502-20*	02,20	4,0	2,0	0,2																
EPA0502-50*	02,50	5,0	2,0	0,3																
EPA0502-70*	02,70	5,0	2,0	0,3																
EPA0503-00*	03,00	6,0	3,0	0,3																
EPA0503-10*	03,10	6,0	3,0	0,3																
EPA0503-20*	03,20	6,0	3,0	0,3																
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EPA0504-00*	04,00	8,0	3,0	0,3																
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EPA0505-00*	05,00	10,0	3,0	0,3																
EPA0505-10*	05,10	10,0	3,0	0,3																
EPA0505-20*	05,20	10,0	3,0	0,3																
EPA0505-50*	05,50	10,0	3,0	0,3																
EPA0506-00*	06,00	12,0	5,0	0,5																
EPA0506-10*	06,10	12,0	5,0	0,5																
EPA0506-20*	06,20	12,0	5,0	0,5																
EPA0506-50*	06,50	12,0	5,0	0,5																
EPA0507-00*	07,00	12,0	5,0	0,5																
EPA0507-50*	07,50	12,0	5,0	0,5																
EPA0508-00*	08,00	14,0	5,0	0,5																
EPA0508-10*	08,10	14,0	5,0	0,5																
EPA0508-20*	08,20	14,0	5,0	0,5																
EPA0508-50*	08,50	14,0	5,0	0,5																
EPA0509-00*	09,00	14,0	5,0	0,5																
EPA0509-50*	09,50	14,0	5,0	0,5																
EPA0510-00*	10,00	16,0	5,0	0,5																
EPA0510-10*	10,10	16,0	5,0	0,5																
EPA0510-20*	10,20	16,0	5,0	0,5																
EPA0510-50*	10,50	16,0	5,0	0,5																
EPA0511-00*	11,00	16,0	5,0	0,5																
EPA0512-00*	12,00	18,0	7,0	0,8																
EPA0512-20*	12,20	18,0	7,0	0,8																
EPA0512-50*	12,50	18,0	7,0	0,8																
EPA0514-00*	14,00	22,0	7,0	0,8																
EPA0514-20*	14,20	22,0	7,0	0,8																
EPA0516-00*	16,00	22,0	7,0	0,8																
EPA0518-00*	18,00	24,0	7,0	0,8																
EPA0520-00*	20,00	26,0	8,0	1,0																
EPA0525-00*	25,00	32,0	8,0	1,0																
EPA0532-00*	32,00	40,0	10,0	1,0																

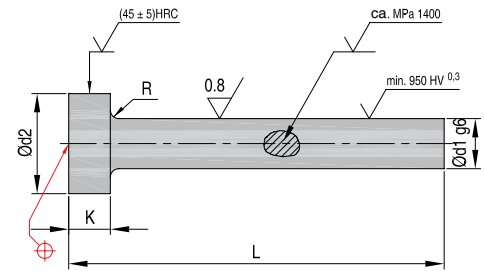
Ejector pins which are not highlighted can be available as special products. Please ask our Special Project department at DMEEU_SpecialProjects@dmeeu.com.

Type EOA - Plasma Nitrided

EOA05

Info

d1 = Pin body ϕ
 d2 = Head ϕ
 K = Head thickness
 L = Length
Standard: DIN1530/ISO6751
Mat.: WAS (~1.2344), pre-hardened
Max. Temp: 500-550 °C
Surface roughness: Ra



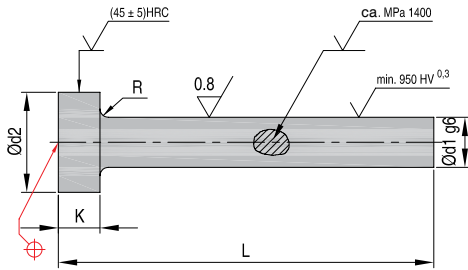
Order example for first item (REF + L): **EOA0501-500100**

REF	d1 g6	d2 0 -0.2	K 0 -0.05	R +0.2 0	L ₀ ⁻²												
					0100	0125	0160	0200	0250	0315	0400	0500	0630	0800	1000		
EOA0501-50*	01,50	3,0	1,5	0,2													
EOA0502-00*	02,00	4,0	2,0	0,2													
EOA0502-20*	02,20	4,0	2,0	0,2													
EOA0502-50*	02,50	5,0	2,0	0,3													
EOA0502-70*	02,70	5,0	2,0	0,3													
EOA0503-00*	03,00	6,0	3,0	0,3													
EOA0503-20*	03,20	6,0	3,0	0,3													
EOA0503-50*	03,50	7,0	3,0	0,3													
EOA0503-70*	03,70	7,0	3,0	0,3													
EOA0504-00*	04,00	8,0	3,0	0,3													
EOA0504-20*	04,20	8,0	3,0	0,3													
EOA0504-50*	04,50	8,0	3,0	0,3													
EOA0505-00*	05,00	10,0	3,0	0,3													
EOA0505-20*	05,20	10,0	3,0	0,3													
EOA0505-50*	05,50	10,0	3,0	0,3													
EOA0506-00*	06,00	12,0	5,0	0,5													
EOA0506-20*	06,20	12,0	5,0	0,5													
EOA0506-50*	06,50	12,0	5,0	0,5													
EOA0507-00*	07,00	12,0	5,0	0,5													
EOA0507-50*	07,50	12,0	5,0	0,5													
EOA0508-00*	08,00	14,0	5,0	0,5													
EOA0508-20*	08,20	14,0	5,0	0,5													
EOA0508-50*	08,50	14,0	5,0	0,5													
EOA0509-00*	09,00	14,0	5,0	0,5													
EOA0509-50*	09,50	14,0	5,0	0,5													
EOA0510-00*	10,00	16,0	5,0	0,5													
EOA0510-20*	10,20	16,0	5,0	0,5													
EOA0510-50*	10,50	16,0	5,0	0,5													
EOA0511-00*	11,00	16,0	5,0	0,5													
EOA0512-00*	12,00	18,0	7,0	0,8													
EOA0512-20*	12,20	18,0	7,0	0,8													
EOA0512-50*	12,50	18,0	7,0	0,8													
EOA0514-00*	14,00	22,0	7,0	0,8													
EOA0516-00*	16,00	22,0	7,0	0,8													
EOA0518-00*	18,00	22,0	7,0	0,8													
EOA0520-00*	20,00	26,0	8,0	1,0													
EOA0525-00*	25,00	26,0	8,0	1,0													
EOA0532-00*	32,00	40,0	10,0	1,0													

Ejector pins which are not highlighted can be available as special products. Please ask our Special Project department at DMEEU_SpecialProjects@dmeeu.com.

ENA05

Type TA - Bath Nitrided



Info
d1 = Pin body \varnothing
d2 = Head \varnothing
K = Head thickness
L = Length
Standard: DIN1530/ISO6751
Mat.: WAS (~1.2344), pre-hard-ened
Max. Temp: 500-550 °C
Surface roughness: Ra

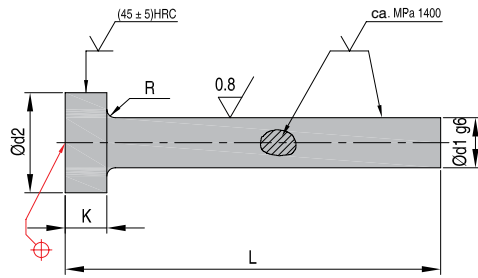
Order example for first item (REF + L): **ENA0501-500100**

REF	d1 g6	d2 0 -0.2	K 0 -0.05	R +0.2 0	L ⁺² ₀																
					0100	0125	0160	0200	0250	0315	0400	0500	0630	0800	1000						
ENA0501-50*	01,50	3,0	1,58	0,2																	
ENA0502-00*	02,00	4,0	2,0	0,2																	
ENA0502-20*	02,20	4,0	2,0	0,2																	
ENA0502-50*	02,50	5,0	2,0	0,3																	
ENA0502-70*	02,70	5,0	2,0	0,3																	
ENA0503-00*	03,00	6,0	3,0	0,3																	
ENA0503-20*	03,20	6,0	3,0	0,3																	
ENA0503-50*	03,50	7,0	3,0	0,3																	
ENA0503-70*	03,70	7,0	3,0	0,3																	
ENA0504-00*	04,00	8,0	3,0	0,3																	
ENA0504-20*	04,20	8,0	3,0	0,3																	
ENA0504-50*	04,50	8,0	3,0	0,3																	
ENA0505-00*	05,00	10,0	3,0	0,3																	
ENA0505-20*	05,20	10,0	3,0	0,3																	
ENA0505-50*	05,50	10,0	3,0	0,3																	
ENA0506-00*	06,00	12,0	5,0	0,5																	
ENA0506-20*	06,20	12,0	5,0	0,5																	
ENA0506-50*	06,50	12,0	5,0	0,5																	
ENA0507-00*	07,00	12,0	5,0	0,5																	
ENA0508-00*	08,00	14,0	5,0	0,5																	
ENA0508-20*	08,20	14,0	5,0	0,5																	
ENA0508-50*	08,50	14,0	5,0	0,5																	
ENA0509-00*	09,00	14,0	5,0	0,5																	
ENA0510-00*	10,00	16,0	5,0	0,5																	
ENA0510-20*	10,20	16,0	5,0	0,5																	
ENA0510-50*	10,50	16,0	5,0	0,5																	
ENA0511-00*	11,00	16,0	5,0	0,5																	
ENA0512-00*	12,00	18,0	7,0	0,8																	
ENA0512-20*	12,20	18,0	7,0	0,8																	
ENA0512-50*	12,50	18,0	7,0	0,8																	
ENA0514-00*	14,00	22,0	7,0	0,8																	
ENA0516-00*	16,00	22,0	7,0	0,8																	
ENA0518-00*	18,00	24,0	7,0	0,8																	
ENA0520-00*	20,00	26,0	8,0	1,0																	
ENA0525-00*	25,00	32,0	10,0	1,0																	

Ejector pins which are not highlighted can be available as special products. Please ask our Special Project department at DMEEU_SpecialProjects@dmeeu.com.

ERA05

Type AHX - hardened



Info

d1 = Pin body \varnothing
 d2 = Head \varnothing
 K = Head thickness
 L = Length
 Standard: DIN1530/ISO6751
 Mat.: WAS (~1.2344), pre-hardened
 Max. Temp: 500-550 °C
 Surface roughness: Ra

Order example for first item (REF + L): ERA0501-00100

REF	d1 g6	d2 0 -0.2	K 0 -0.05	R +0.2 0	L ⁺² ₀															
					0080	0100	0125	0160	0200	0250	0315	0400	0500	0630	0800	1000				
ERA0501-00*	01,00	2,5	1,2	0,2																
ERA0501-50*	01,50	3,0	1,5	0,2																
ERA0502-00*	02,00	4,0	2,0	0,2																
ERA0502-20*	02,20	4,0	2,0	0,2																
ERA0502-50*	02,50	5,0	2,0	0,3																
ERA0502-70*	02,70	5,0	2,0	0,3																
ERA0503-00*	03,00	6,0	3,0	0,3																
ERA0503-20*	03,20	6,0	3,0	0,3																
ERA0503-50*	03,50	7,0	3,0	0,3																
ERA0503-70*	03,70	7,0	3,0	0,3																
ERA0504-00*	04,00	8,0	3,0	0,3																
ERA0504-20*	04,20	8,0	3,0	0,3																
ERA0504-50*	04,50	8,0	3,0	0,3																
ERA0505-00*	05,00	10,0	3,0	0,3																
ERA0505-20*	05,20	10,0	3,0	0,3																
ERA0505-50*	05,50	10,0	3,0	0,3																
ERA0506-00*	06,00	12,0	5,0	0,5																
ERA0506-20*	06,20	12,0	5,0	0,5																
ERA0506-50*	06,50	12,0	5,0	0,5																
ERA0507-00*	07,00	12,0	5,0	0,5																
ERA0507-50*	07,50	12,0	5,0	0,5																
ERA0508-00*	08,00	14,0	5,0	0,5																
ERA0508-20*	08,20	14,0	5,0	0,5																
ERA0508-50*	08,50	14,0	5,0	0,5																
ERA0509-00*	09,00	14,0	5,0	0,5																
ERA0509-50*	09,50	14,0	5,0	0,5																
ERA0510-00*	10,00	16,0	5,0	0,5																
ERA0510-20*	10,20	16,0	5,0	0,5																
ERA0510-50*	10,50	16,0	5,0	0,5																
ERA0511-00*	11,00	16,0	5,0	0,5																
ERA0512-00*	12,00	18,0	7,0	0,8																
ERA0512-20*	12,20	18,0	7,0	0,8																
ERA0512-50*	12,50	18,0	7,0	0,8																
ERA0514-00*	14,00	22,0	7,0	0,8																
ERA0516-00*	16,00	22,0	7,0	0,8																
ERA0518-00*	18,00	24,0	7,0	0,8																
ERA0520-00*	20,00	26,0	8,0	1,0																
ERA0525-00*	25,00	32,0	10,0	1,0																
ERA0532-00*	32,00	40,0	10,0	1,0																

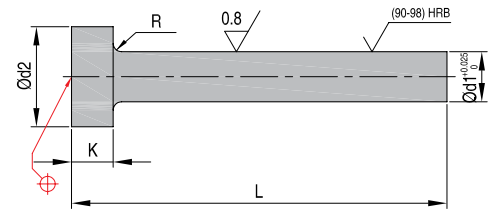
Ejector pins which are not highlighted can be available as special products. Please ask our Special Project department at DMEEU_SpecialProjects@dmeeu.com.

Type PCM - performance core pins

PCM

Info

d1 = Pin body \varnothing
d2 = Head \varnothing
K = Head thickness
L = Length
Standard: DIN1530/ISO6751
Mat.: copper-based alloy
Max. Temp: 360°C
Surface roughness: Ra



Order example for first item (REF + L): **PCM025100**

REF	d1 +0,025 0	d2 0 -0,2	K 0 -0,05	R +0,2 0	L ⁺² / ₀			
					100	160	250	315
PCM015*	01,50	3,0	1,5	0,2				
PCM020*	02,00	4,0	2,0	0,2				
PCM025*	02,50	5,0	2,0	0,3				
PCM030*	03,00	6,0	3,0	0,3				
PCM035*	03,50	7,0	3,0	0,3				
PCM040*	04,00	8,0	3,0	0,3				
PCM045*	04,50	8,0	3,0	0,3				
PCM050*	05,00	10,0	3,0	0,3				
PCM060*	06,00	12,0	5,0	0,5				
PCM070*	07,00	12,0	5,0	0,5				
PCM080*	08,00	14,0	5,0	0,5				
PCM100*	10,00	16,0	5,0	0,5				
PCM120*	12,00	18,0	7,0	0,8				
PCM140*	14,00	22,0	7,0	0,8				
PCM160*	16,00	22,0	7,0	0,8				

Ejector pins which are not highlighted can be available as special products. Please ask our Special Project department at DMEEU_SpecialProjects@dmeeu.com.

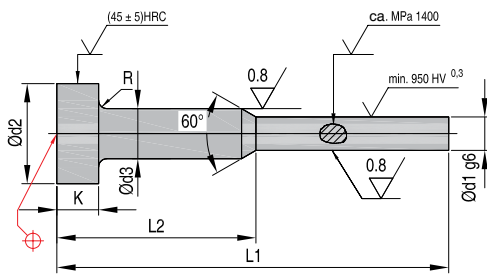
High thermal conductivity pins

Advantages:

- Reduced cycle time
- 5 times better conductivity than steel
- Improved part quality
- Lower machining costs
- Longer service life

EPC05

Type C - nitrided



Info
d1 = Pin body ϕ
d2 = Head ϕ
d3 = Shoulder ϕ
K = Head thickness
L1 = Length
L2 = Shoulder length + head thickness
Standard: DIN1530/ISO8694
Mat.: WAS (~1.2344)
Max. Temp: 500-550 °C
Surface roughness: Ra

Order example for first item (REF + L): **EPC0500,700100**

REF	d1 g6	d2 0 0,2	d3 h11	K 0 0,05	R +0,2 0	L 1 ₁ ²									
						0080	0100	0125	0160	0160	0160	0200	0250	0250	
						L 2 ₂ ¹									
						0035	0050	0050	0050	0063	0075	0075	0075	0100	
EPC0500-70*	0,700	4,0	2,0	2,0	0,2										
EPC0500-80*	0,800	4,0	2,0	2,0	0,2										
EPC0500-90*	0,900	4,0	2,0	2,0	0,2										
EPC0501-00*	01,00	4,0	2,0	2,0	0,2										
EPC0501-10*	01,10	4,0	2,0	2,0	0,2										
EPC0501-20*	01,20	4,0	2,0	2,0	0,2										
EPC0501-30*	01,30	4,0	2,0	2,0	0,2										
EPC0501-40*	01,40	4,0	2,0	2,0	0,2										
EPC0501-50*	01,50	6,0	3,0	3,0	0,3										
EPC0501-60*	01,60	6,0	3,0	3,0	0,3										
EPC0501-70*	01,70	6,0	3,0	3,0	0,3										
EPC0501-80*	01,80	6,0	3,0	3,0	0,3										
EPC0501-90*	01,90	6,0	3,0	3,0	0,3										
EPC0502-00*	02,00	6,0	3,0	3,0	0,3										
EPC0502-10*	02,10	6,0	3,0	3,0	0,3										
EPC0502-20*	02,20	6,0	3,0	3,0	0,3										
EPC0502-30*	02,30	6,0	3,0	3,0	0,3										
EPC0502-40*	02,40	6,0	3,0	3,0	0,3										
EPC0502-50*	02,50	6,0	3,0	3,0	0,3										
EPC0502-60*	02,60	6,0	3,0	3,0	0,3										
EPC0502-70*	02,70	6,0	3,0	3,0	0,3										
EPC0502-80*	02,80	6,0	3,0	3,0	0,3										
EPC0502-90*	02,90	6,0	3,0	3,0	0,3										
EPC0503-00*	03,00	8,0	4,0	3,0	0,3										
EPC0503-10*	03,10	8,0	4,0	3,0	0,3										
EPC0503-20*	03,20	8,0	4,0	3,0	0,3										
EPC0503-30*	03,30	8,0	4,0	3,0	0,3										
EPC0503-40*	03,40	8,0	4,0	3,0	0,3										
EPC0503-50*	03,50	8,0	4,0	3,0	0,3										

Ejector pins which are not highlighted can be available as special products. Please ask our Special Project department at DMEEU_SpecialProjects@dmeeu.com.

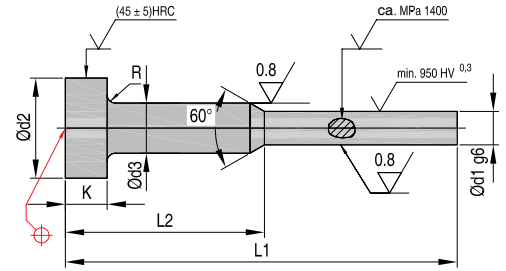
* For L1 0160 0250 add (5), (6), (7) for L2

Type TC - bath nitrided

ENC05

Info

d1 = Pin body ϕ
d2 = Head ϕ
d3 = Shoulder ϕ
K = Head thickness
L1 = Length
L2 = Shoulder length + head thickness
Standard: DIN1530/ISO8694
Mat.: WAS (~1.2344)
Max. Temp: 500-550 °C
Surface roughness: Ra



Order example for first item (REF + L): **ENC0500-700100**

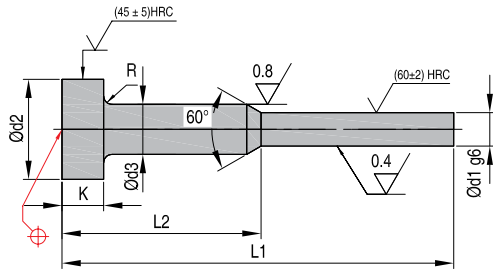
REF	d1 g6	d2 0 -0.2	d3 h11	K 0 -0.05	R +0.2 0	L 1 ^{+0.2} ₀									
						0080	0100	0125	0160	0160	0160	0200	0250	0250	
						L 2 ^{+0.2} ₀									
						0035	0050	0050	0050	0063	0075	0075	0075	0100	
ENC0500-70*	0,700	4,0	2,0	2,0	0,2										
ENC0500-80*	0,800	4,0	2,0	2,0	0,2										
ENC0500-90*	0,900	4,0	2,0	2,0	0,2										
ENC0501-00*	01,00	4,0	2,0	2,0	0,2										
ENC0501-10*	01,10	4,0	2,0	2,0	0,2										
ENC0501-20*	01,20	4,0	2,0	2,0	0,2										
ENC0501-30*	01,30	4,0	2,0	2,0	0,2										
ENC0501-40*	01,40	4,0	2,0	2,0	0,2										
ENC0501-50*	01,50	6,0	3,0	3,0	0,3										
ENC0501-60*	01,60	6,0	3,0	3,0	0,3										
ENC0501-07*	01,70	6,0	3,0	3,0	0,3										
ENC0501-08*	01,80	6,0	3,0	3,0	0,3										
ENC0501-09*	01,90	6,0	3,0	3,0	0,3										
ENC0502-00*	02,00	6,0	3,0	3,0	0,3										
ENC0502-10*	02,10	6,0	3,0	3,0	0,3										
ENC0502-20*	02,20	6,0	3,0	3,0	0,3										
ENC0502-30*	02,30	6,0	3,0	3,0	0,3										
ENC0502-40*	02,40	6,0	3,0	3,0	0,3										
ENC0502-50*	02,50	6,0	3,0	3,0	0,3										
ENC0502-60*	02,60	6,0	3,0	3,0	0,3										
ENC0502-70*	02,70	6,0	3,0	3,0	0,3										
ENC0502-80*	02,80	6,0	3,0	3,0	0,3										
ENC0502-90*	02,90	6,0	3,0	3,0	0,3										
ENC0503-00*	03,00	8,0	4,0	3,0	0,3										
ENC0503-10*	03,10	8,0	4,0	3,0	0,3										
ENC0503-20*	03,20	8,0	4,0	3,0	0,3										
ENC0503-30*	03,30	8,0	4,0	3,0	0,3										
ENC0503-40*	03,40	8,0	4,0	3,0	0,3										
ENC0503-05*	03,50	8,0	4,0	3,0	0,3										

Ejector pins which are not highlighted can be available as special products. Please ask our Special Project department at DMEEU_SpecialProjects@dmeeu.com.

* For L1 0160 0250 add (5), (6), (7) for L2

CHE28

Type CH - hardened



Info
 d1 = Pin body \varnothing
 d2 = Head \varnothing
 d3 = Shoulder \varnothing
 K = Head thickness
 L1 = Length
 L2 = Shoulder length + head thickness
Standard: DIN1530/ISO8694
Mat.: WS (~1.2067)
Max. Temp: 250°C
Surface roughness: Ra

Order example for first item (REF + L): **CHE2800-500100**

REF	d1 g6	d2 0 -0,2	d3 h11	K 0 -0,05	R +0,2 0	L 1 ⁺² ₀										
						0063	0080	0100	0125	0160	0160	0160	0200	0250	0250	
						L 2 ³ ₀										
						0025	0035	0050	0050	0050	0063	0075	0075	0075	0100	
CHE2800-50*	00,50	4,0	2,0	2,0	0,2											
CHE2800-60*	00,60	4,0	2,0	2,0	0,2											
CHE2800-70*	00,70	4,0	2,0	2,0	0,2											
CHE2800-80*	00,80	4,0	2,0	2,0	0,2											
CHE2800-90*	00,90	4,0	2,0	2,0	0,2											
CHE2801-00*	01,00	4,0	2,0	2,0	0,2											
CHE2801-10*	01,10	4,0	2,0	2,0	0,2											
CHE2801-20*	01,20	4,0	2,0	2,0	0,2											
CHE2801-30*	01,30	4,0	2,0	2,0	0,2											
CHE2801-40*	01,40	4,0	2,0	2,0	0,2											
CHE2801-50*	01,50	6,0	3,0	3,0	0,3											
CHE2801-60*	01,60	6,0	3,0	3,0	0,3											
CHE2801-70*	01,70	6,0	3,0	3,0	0,3											
CHE2801-80*	01,80	6,0	3,0	3,0	0,3											
CHE2801-90*	01,90	6,0	3,0	3,0	0,3											
CHE2802-00*	02,00	6,0	3,0	3,0	0,3											
CHE2802-10*	02,10	6,0	3,0	3,0	0,3											
CHE2802-20*	02,20	6,0	3,0	3,0	0,3											
CHE2802-30*	02,30	6,0	3,0	3,0	0,3											
CHE2802-40*	02,40	6,0	3,0	3,0	0,3											
CHE2802-50*	02,50	6,0	3,0	3,0	0,3											
CHE2802-60*	02,60	6,0	3,0	3,0	0,3											
CHE2802-70*	02,70	6,0	3,0	3,0	0,3											
CHE2802-80*	02,80	6,0	3,0	3,0	0,3											
CHE2802-90*	02,90	6,0	3,0	3,0	0,3											

Ejector pins which are not highlighted can be available as special products. Please ask our Special Project department at DMEEU_SpecialProjects@dmeeu.com.

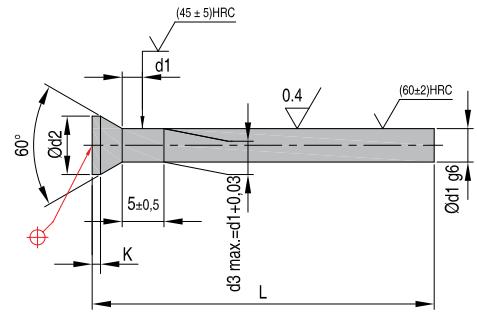
* For L1 0160 0250 add (5), (6), (7) for L2

Type D - hardened

EPD28

Info

d1 = Pin body ϕ
 d2 = Head ϕ
 K = Head thickness
 L = Length
 Standard: DIN1530
 Mat.: WS (~1.2067)
 Max. Temp: 250°C
 Surface roughness: Ra



Order example for first item (REF + L): **EPD2801-00100**

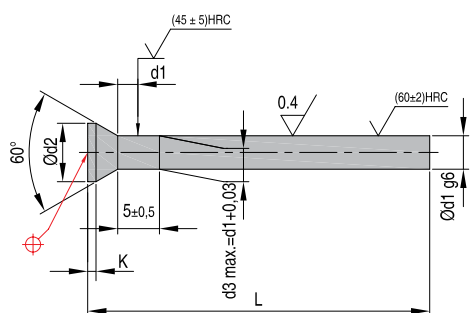
REF	d1 g6	d2 0 -0.2	K +0.2 0	L ^{+z} ₀											
				0063	0071	0080	0100	0125	0160	0200	0250	0315			
EPD2801-00*	01,00	1,8	0,5												
EPD2801-10*	01,10	1,8	0,5												
EPD2801-20*	01,20	2,0	0,5												
EPD2801-25*	01,25	2,0	0,5												
EPD2801-30*	01,30	2,0	0,5												
EPD2801-40*	01,40	2,2	0,5												
EPD2801-50*	01,50	2,2	0,5												
EPD2801-60*	01,60	2,5	0,5												
EPD2801-70*	01,70	2,5	0,5												
EPD2801-75*	01,75	2,8	0,5												
EPD2801-80*	01,80	2,8	0,5												
EPD2801-90*	01,90	2,8	0,5												
EPD2802-00*	02,00	3,0	0,5												
EPD2802-10*	02,10	3,2	0,5												
EPD2802-20*	02,20	3,2	0,5												
EPD2802-25*	02,25	3,5	0,5												
EPD2802-30*	02,30	3,5	0,5												
EPD2802-40*	02,40	3,5	0,5												
EPD2802-50*	02,50	3,5	0,5												
EPD2802-60*	02,60	4,0	0,5												
EPD2802-70*	02,70	4,0	0,5												
EPD2802-75*	02,75	4,0	0,5												
EPD2802-80*	02,80	4,0	0,5												
EPD2802-90*	02,90	4,0	0,5												
EPD2803-00*	03,00	4,5	0,5												
EPD2803-10*	03,10	4,5	0,5												
EPD2803-20*	03,20	4,5	0,5												
EPD2803-25*	03,25	4,5	0,5												
EPD2803-30*	03,30	4,5	0,5												
EPD2803-40*	03,40	4,5	0,5												
EPD2803-50*	03,50	5,0	0,5												
EPD2803-60*	03,60	5,0	0,5												
EPD2803-70*	03,70	5,0	0,5												
EPD2803-75*	03,75	5,0	0,5												
EPD2803-80*	03,80	5,0	0,5												
EPD2803-90*	03,90	5,0	0,5												
EPD2804-00*	04,00	5,5	0,5												
EPD2804-10*	04,10	5,5	0,5												
EPD2804-20*	04,20	5,5	0,5												
EPD2804-25*	04,25	5,5	0,5												
EPD2804-40*	04,40	5,5	0,5												
EPD2804-50*	04,50	6,1	0,5												
EPD2804-60*	04,60	6,0	0,5												
EPD2804-75*	04,75	6,0	0,5												
EPD2805-00*	05,00	6,5	0,5												
EPD2805-10*	05,10	6,5	0,5												
EPD2805-20*	05,20	6,5	0,5												
EPD2805-25*	05,25	6,5	0,5												
EPD2805-30*	05,30	6,5	0,5												
EPD2805-40*	05,40	6,5	0,5												
EPD2805-50*	05,50	7,0	0,5												
EPD2805-60*	05,60	7,0	0,5												
EPD2805-75*	05,75	7,0	0,5												
EPD2805-00*	05,00	6,5	0,5												

26/06/2017 CAD reference point

Ejector pins which are not highlighted can be available as special products. Please ask our Special Project department at DMEEU_SpecialProjects@dmeeu.com.

EPD28

Type D - hardened



Info
d1 = Pin body ϕ
d2 = Head ϕ
K = Head thickness
L = Length
Standard: DIN1530
Mat.: WS (~1.2067)
Max. Temp: 250°C
Surface roughness: Ra

Order example for first item (REF + L): **EPD2801-000100**

REF	d1 g6	d2 0 -0.2	K +0.2 0	L ₀ ⁺²									
				0063	0071	0080	0100	0125	0160	0200	0250	0315	
EPD2806-00*	06,00	8,0	0,5										
EPD2806-20*	06,20	8,0	0,5										
EPD2806-50*	06,50	9,0	1										
EPD2807-00*	07,00	9,0	1										
EPD2807-50*	07,50	10,0	1										
EPD2808-00*	08,00	10,0	1										
EPD2808-20*	08,20	10,0	1										
EPD2808-50*	08,50	11,0	1										
EPD2809-00*	09,00	11,0	1										
EPD2810-00*	10,00	12,0	1										
EPD2811-00*	11,00	13,0	1										
EPD2812-00*	12,00	14,0	1										
EPD2814-00*	14,00	16,0	1,5										
EPD2816-00*	16,00	18,0	1,5										

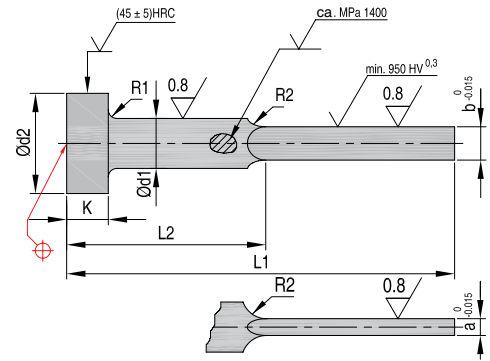
Ejector pins which are not highlighted can be available as special products. Please ask our Special Project department at DMEEU_SpecialProjects@dmeeu.com.

Type FW - nitrided

FW

Info

d1 = Pin body ϕ
d2 = Head ϕ
K = Head thickness
a =
b =
L1 = Length
L2 = Shoulder length + head thickness
Standard: DIN1530/ISO8693
Mat.: WAS (~1.2344), pre-hardened
Max. Temp: 500-550 °C
Surface roughness: Ra



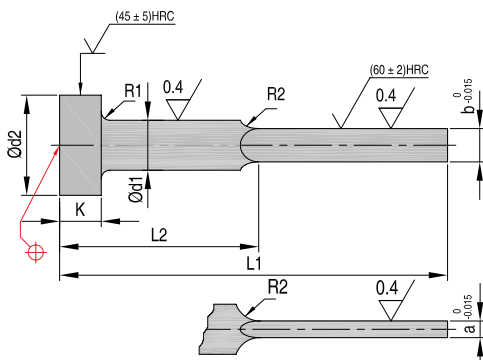
Order example for first item (REF + L): **FW0-83-563**

REF	R1 +0.2 0	R2	K 0 -0.05	d2 0 -0.2	d1 h11	a 0 -0.015	b 0 -0.015	L 1 ⁺² ₀									
								63	80	100	125	160	200	250	315	400	
								L 2 ⁻¹ ₋₂									
								32	40	50	63	80	100	125	160	200	
FW0-83-5*	0,3	10	3	8,0	4,0	0,8	3,5										
FW0-83-8*	0,3	10	3	8,0	4,2	0,8	3,8										
FW1-03-5*	0,3	10	3	8,0	4,0	1,0	3,5										
FW1-23-5*	0,3	10	3	8,0	4,0	1,2	3,5										
FW1-03-8*	0,3	10	3	8,0	4,2	1,0	3,8										
FW1-23-8*	0,3	10	3	8,0	4,2	1,2	3,8										
FW1-04-5*	0,3	10	3	10,0	5,0	1,0	4,5										
FW1-24-5*	0,3	10	3	10,0	5,0	1,2	4,5										
FW1-54-5*	0,3	10	3	10,0	5,0	1,5	4,5										
FW1-64-5*	0,3	10	3	10,0	5,0	1,6	4,5										
FW1-84-5*	0,3	10	3	10,0	5,0	1,8	4,5										
FW1-05-5*	0,5	10	5	12,0	6,0	1,0	5,5										
FW1-25-5*	0,5	10	5	12,0	6,0	1,2	5,5										
FW1-55-5*	0,5	10	5	12,0	6,0	1,5	5,5										
FW1-65-5*	0,5	10	5	12,0	6,0	1,6	5,5										
FW1-85-5*	0,5	10	5	12,0	6,0	1,8	5,5										
FW2-05-5*	0,5	10	5	12,0	6,0	2,0	5,5										
FW1-27-5*	0,5	10	5	14,0	8,0	1,2	7,5										
FW1-57-5*	0,5	10	5	14,0	8,0	1,5	7,5										
FW1-67-5*	0,5	10	5	14,0	8,0	1,6	7,5										
FW1-87-5*	0,5	10	5	14,0	8,0	1,8	7,5										
FW2-07-5*	0,5	10	5	14,0	8,0	2,0	7,5										
FW1-59-5*	0,5	10	5	16,0	10,0	1,5	9,5										
FW1-89-5*	0,5	10	5	16,0	10,0	1,8	9,5										
FW2-09-5*	0,5	10	5	16,0	10,0	2,0	9,5										
FW2-011-5*	0,8	10	7	18,0	12,0	2,0	11,5										
FW2-511-5*	0,8	10	7	18,0	12,0	2,5	11,5										
FW2-012-0*	0,8	10	7	18,0	12,5	2,0	12,0										
FW2-512-0*	0,8	10	7	18,0	12,5	2,5	12,0										
FW2-015-0*	0,8	10	7	22,0	16,0	2,0	15,0										
FW2-515-0*	0,8	10	7	22,0	16,0	2,5	15,0										
FW2-015-5*	0,8	10	7	22,0	16,0	2,0	15,5										
FW2-515-5*	0,8	10	7	22,0	16,0	2,5	15,5										

Ejector pins which are not highlighted can be available as special products. Please ask our Special Project department at DMEEU_SpecialProjects@dmeeu.com.

FK

Type FK - hardened



Info

d1 = Pin body ϕ
d2 = Head ϕ
K = Head thickness
a =
b =
L1 = Length
L2 = Shoulder length + head thickness
Standard: DIN1530/ISO8693
Mat.: WS (~1.2067)
Max. Temp: 250°C
Surface roughness: Ra

Order example for first item (REF + L): **FK0-83-863**

REF	R1 +0.2 0	R2	K 0 -0.05	d2 0 -0.2	d1 h11	a 0 -0.015	b 0 -0.015	L 1 ⁺² ₀									
								63	80	100	125	160	200	250	315	400	
								L 2 ⁻¹ ₋₂									
								32	40	50	63	80	100	125	160	200	
FK0-83-8*	0,3	10	3	8	4,2	0,8	3,8										
FK1-03-5*	0,3	10	3	8	4,0	1,0	3,5										
FK1-23-5*	0,3	10	3	8	4,0	1,2	3,5										
FK1-03-8*	0,3	10	3	8	4,2	1,0	3,8										
FK1-23-8*	0,3	10	3	8	4,2	1,2	3,8										
FK1-04-5*	0,3	10	3	10	5,0	1,0	4,5										
FK1-24-5*	0,3	10	3	10	5,0	1,2	4,5										
FK1-54-5*	0,3	10	3	10	5,0	1,5	4,5										
FK1-05-5*	0,5	10	5	12	6,0	1,0	5,5										
FK1-25-5*	0,5	10	5	12	6,0	1,2	5,5										
FK1-55-5*	0,5	10	5	12	6,0	1,5	5,5										
FK2-05-5*	0,5	10	5	12	6,0	2,0	5,5										
FK1-27-5*	0,5	10	5	14	8,0	1,2	7,5										
FK1-57-5*	0,5	10	5	14	8,0	1,5	7,5										
FK2-07-5*	0,5	10	5	14	8,0	2,0	7,5										
FK1-59-5*	0,5	10	5	16	10,0	1,5	9,5										
FK2-09-5*	0,5	10	5	16	10,0	2,0	9,5										
FK2-011-5*	0,8	10	7	18	12,0	2,0	11,5										
FK2-511-5*	0,8	10	7	18	12,0	2,5	11,5										
FK2-015-5*	0,8	10	7	22	16,0	2,0	15,5										
FK2-515-5*	0,8	10	7	22	16,0	2,5	15,5										

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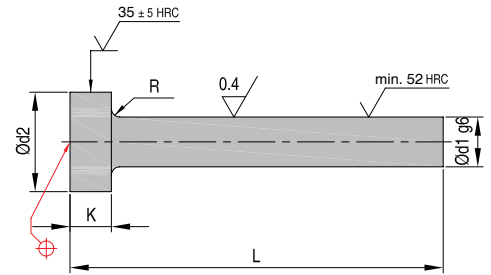
ERF - Stainless Steel

ERFAQ

Info

d1 = Pin body ϕ
d2 = Head ϕ
K = Head thickness
L = Length
Standard: DIN ISO6751
Mat.: 1.4125
Max. Temp: 250°C
Surface roughness: Ra

Other custom dimensions upon request, delivery 2 weeks



Order example for first item (REF + L): **ERFAQ01-000100**

REF	d1 g6	d2 0 -0.2	K 0 -0.05	R +0.2 0	L ^{±2}											
					0100	0125	0160	0200	0250	0315	0400	0500	0630	0800	1000	
ERFAQ01-00*	01,00	2,5	1,2	0,2												
ERFAQ01-50*	01,50	3,0	1,5	0,2												
ERFAQ02-00*	02,00	4,0	2,0	0,2												
ERFAQ02-50*	02,50	5,0	2,0	0,3												
ERFAQ03-00*	03,00	6,0	3,0	0,3												
ERFAQ03-50*	03,50	7,0	3,0	0,3												
ERFAQ04-00*	04,00	8,0	3,0	0,3												
ERFAQ04-50*	04,50	8,0	3,0	0,3												
ERFAQ05-00*	05,00	10,0	3,0	0,3												
ERFAQ05-50*	05,50	10,0	3,0	0,3												
ERFAQ06-00*	06,00	12,0	5,0	0,5												
ERFAQ06-50*	06,50	12,0	5,0	0,5												
ERFAQ08-00*	08,00	14,0	5,0	0,5												
ERFAQ10-00*	10,00	16,0	5,0	0,5												

Ejector pins which are not highlighted can be available as special products. Please ask our Special Project department at DMEEU_SpecialProjects@dmeeu.com.

Applications

- for processing plastics with abrasive and corrosive fillers that form acidic gasses
- for use with fire resistant additives
- tools for the medical and food industry
- for molding of PVC

Features

- high wear resistance
- suitable for polished finish
- longer life of the mold
- excellent dimension stability
- low maintenance and service costs

Ejector pins with DLC coating

Productivity increase through solid, high-precision products

Do you have problems with adhesion or corrosion? Do rust marks appear on the ejector or wear caused by exhaust gases? DME has the solution!

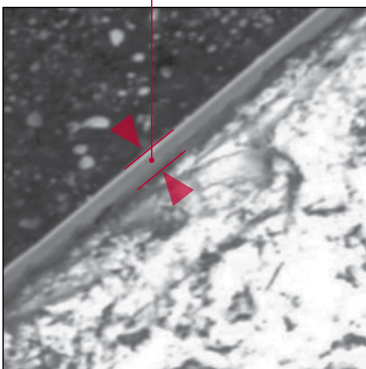
With a DLC (Diamond-like-carbon) coating of our ejector pins you will obtain a clear increase in productivity. This amorphous carbon layer has a very high inherent hardness and an extremely low friction coefficient. Thanks to the optimal dry-running properties, greasing the ejector pins becomes unnecessary. The result is an end product which does not discolour and has a longer life.



Characteristics and advantages

- Excellent tribological properties
- Extreme resistance against wear caused by adhesion
- Superb corrosion resistance
- Low costs of tools and machinery that are not in use
- No discolouration in the end product
- Optimal dry-running properties
- Maximum increase of the product life

DLC coating: 2.5 µm - with a hardness of 2,000 - 3,000 HV



Technical information

Base material: hardened tool steel and HSS
 Layer hardness: 2,000-3,000 HV
 Layer strength: 2-3µm
 Coating temp.: approx. 180°C
 Layer colour: black-grey

Coating	Friction coefficients against steel
TiN	0.4
CrN	0.25
DLC	0.1 - 0.15

Please bear in mind that the diameter, determined by the layer structure, may have a positive tolerance for the µ value.

Type AH - DLC Coated

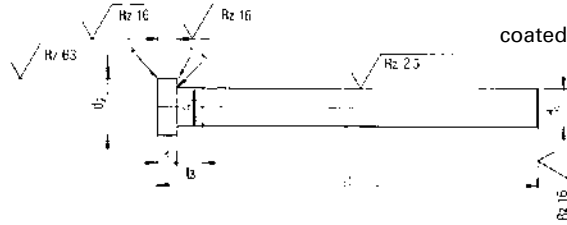
EAH-DLC

Information

according to DIN ISO 6751 (DIN 1530 Part 1, Type AH, hardened);
DLC coated

Some other dimensions or intermediate dimensions available from stock.
Prices on request.

Item price in euros



a = edge free of burr / b = rounded edge
a = edge free of burr / b = rounded edge



Order example for first item (REF + L): **EAHDL01-000100**

REF	Diameter d1 g6 +coating	L				d2 0 -0,2	d4	k 0 -0,05	r +0,2 0	l3
		100	160	250	315					
EAHDL01-000	1,0					2,5		1,2		
EAHDL01-200	1,2									
EAHDL01-500	1,5					3		1,5	0,2	
EAHDL01-800	1,8									
EAHDL02-000	2,0					4		2,0		
EAHDL02-200	2,2									
EAHDL02-500	2,5					5				
EAHDL03-000	3,0					6				
EAHDL03-200	3,2									
EAHDL03-500	3,5					7				5
EAHDL03-700	3,7									
EAHDL04-000	4,0									
EAHDL04-200	4,2									
EAHDL04-500	4,5					8		3,0	0,3	
EAHDL04-700	4,7									
EAHDL05-000	5,0									
EAHDL05-200	5,2					10				
EAHDL05-500	5,5									
EAHDL06-000	6,0									
EAHDL06-200	6,2					12				6
EAHDL06-500	6,5									
EAHDL07-000	7,0									
EAHDL08-000	8,0									
EAHDL08-200	8,2					14		5,0	0,5	8
EAHDL08-500	8,5									
EAHDL10-000	10,0					16				10
EAHDL12-000	12,0					18	d1+0,04	7,0	0,8	12

Ejector pins which are not highlighted can be available as special products. Please ask our Special Project department at DMEEU_SpecialProjects@dmeeu.com.

When you want pins with special shapes such as tapers or contours - special head sizes - special hardness, special material up to any length.

DME has the manufacturing, heat treating and sophisticated quality control equipment to meet your requirements for special ejector pins, core pins or ejector sleeves.

Special pins match the precision manufacturing of all our standards in every detail.



Step 1: Photocopy this form.

Step 2: Specify required tolerances on all dimensions.

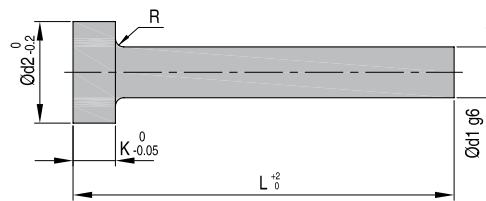
Step 3: Contact **DME**

Special Pins

Comments:

.....

 Company:
 Contact:
 Tel.:
 Fax:
 Quantity:
 Mat.:
 Hardness: HRC
 Delivery date:
 Nitrite: Yes
 Signature:
 Order Number:

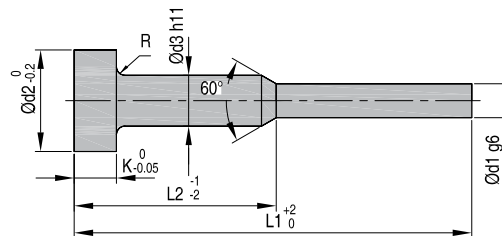


	Dim.	Tol.
d1		
d2		
K		
R		
L		

Comments:

.....

 Company:
 Contact:
 Tel.:
 Fax:
 Quantity:
 Mat.:
 Hardness: HRC
 Delivery date:
 Nitrite: Yes
 Signature:
 Order Number:

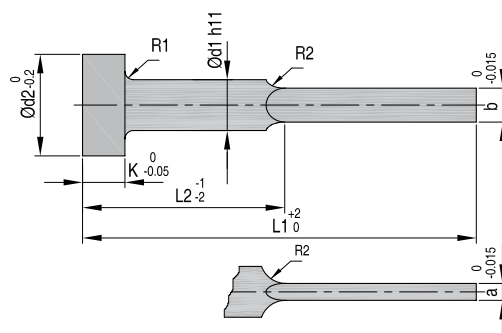


	Dim.	Tol.
d1		
d2		
d3		
L1		
L2		
K		
R		

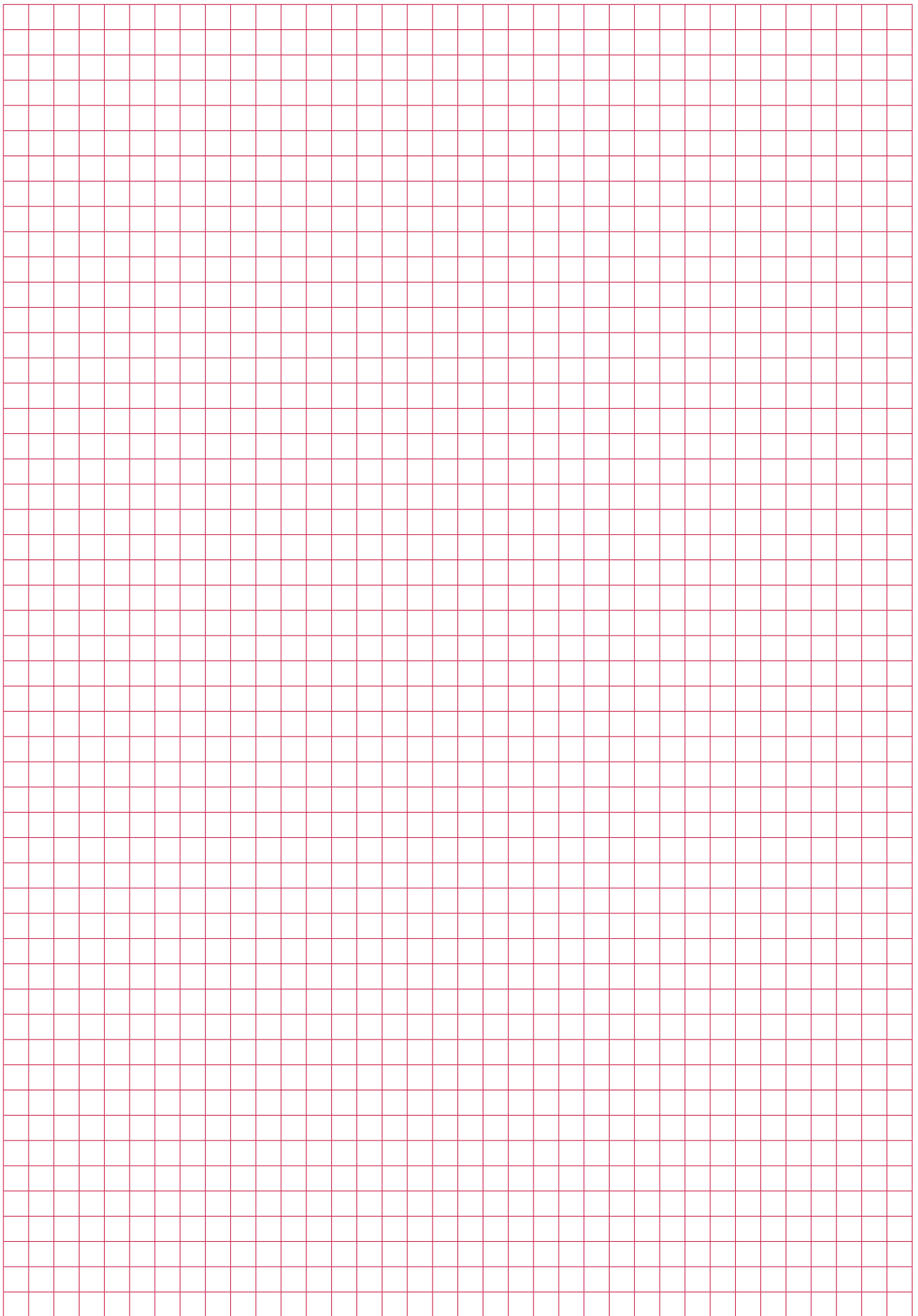
Comments:

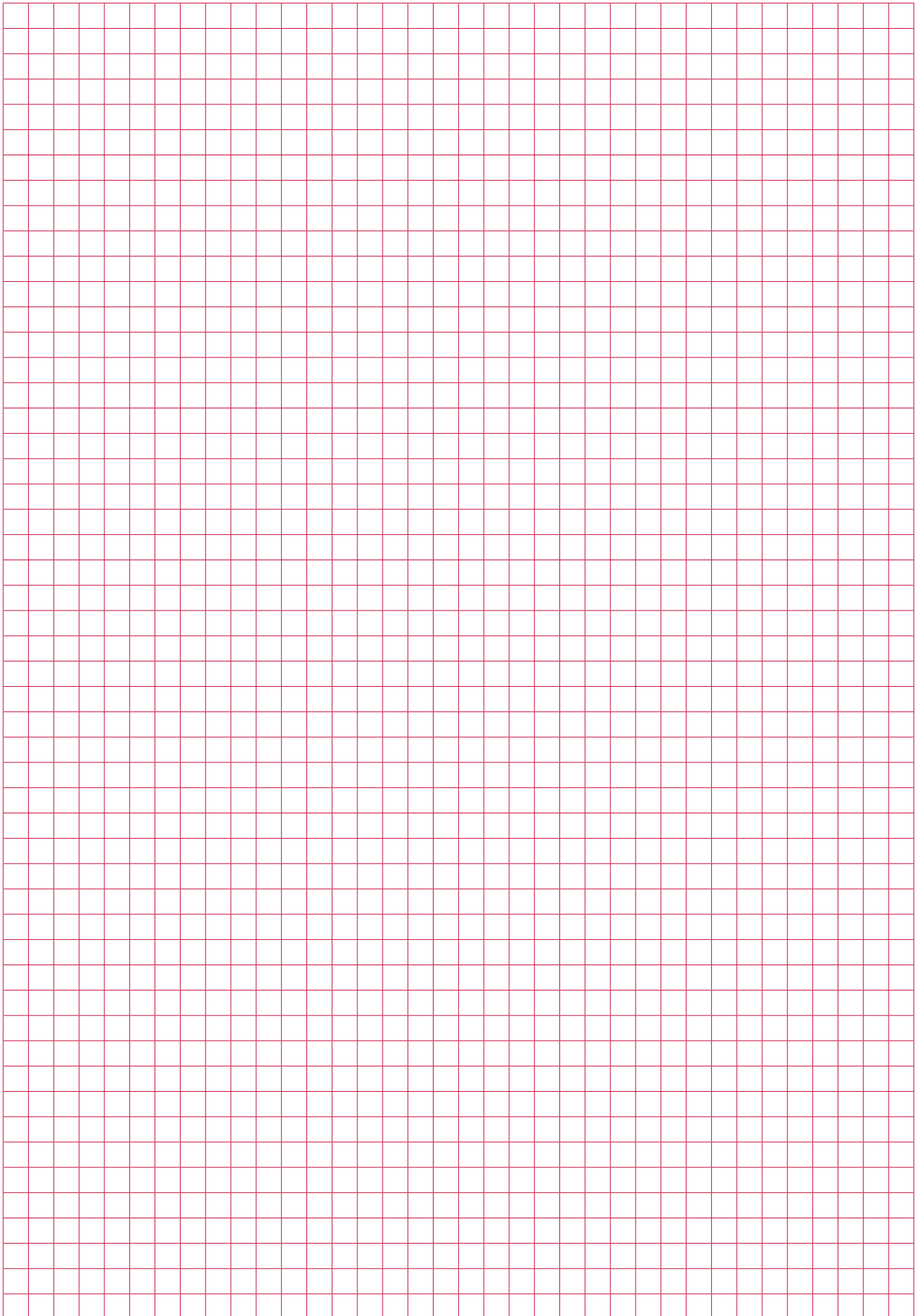
.....

 Company:
 Contact:
 Tel.:
 Fax:
 Quantity:
 Mat.:
 Hardness: HRC
 Delivery date:
 Nitrite: Yes
 Signature:
 Order Number:



	Dim.	Tol.
d1		
d2		
K		
R1		
R2		
a		
b		
L1		
L2		







TOOLING SUPPLIES

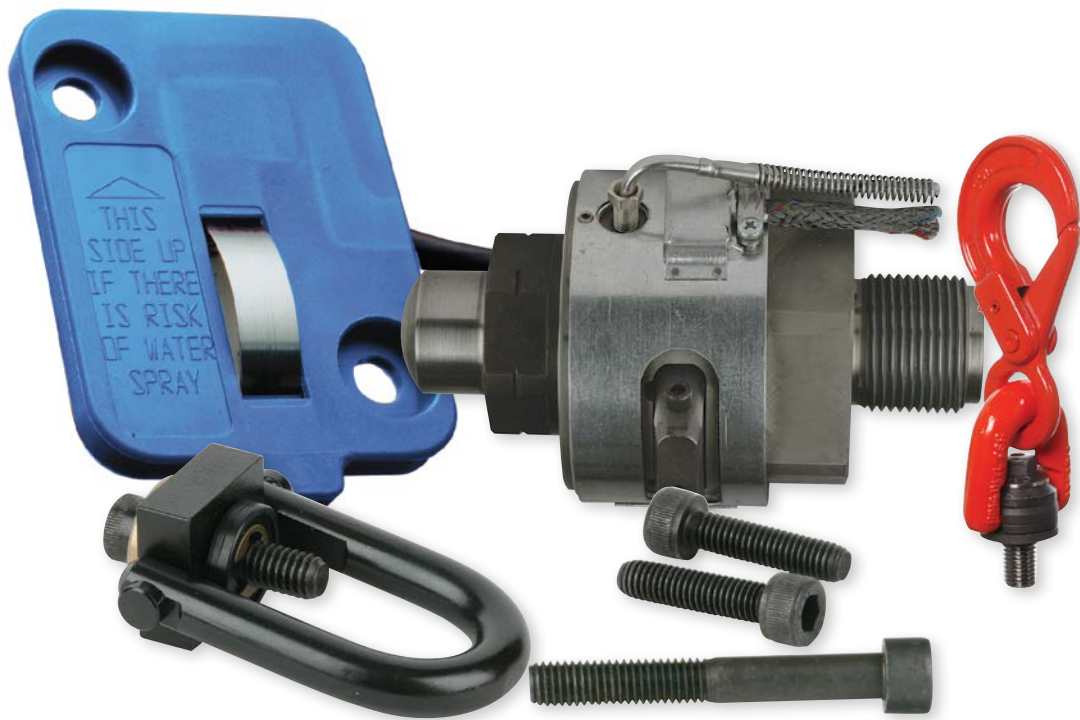


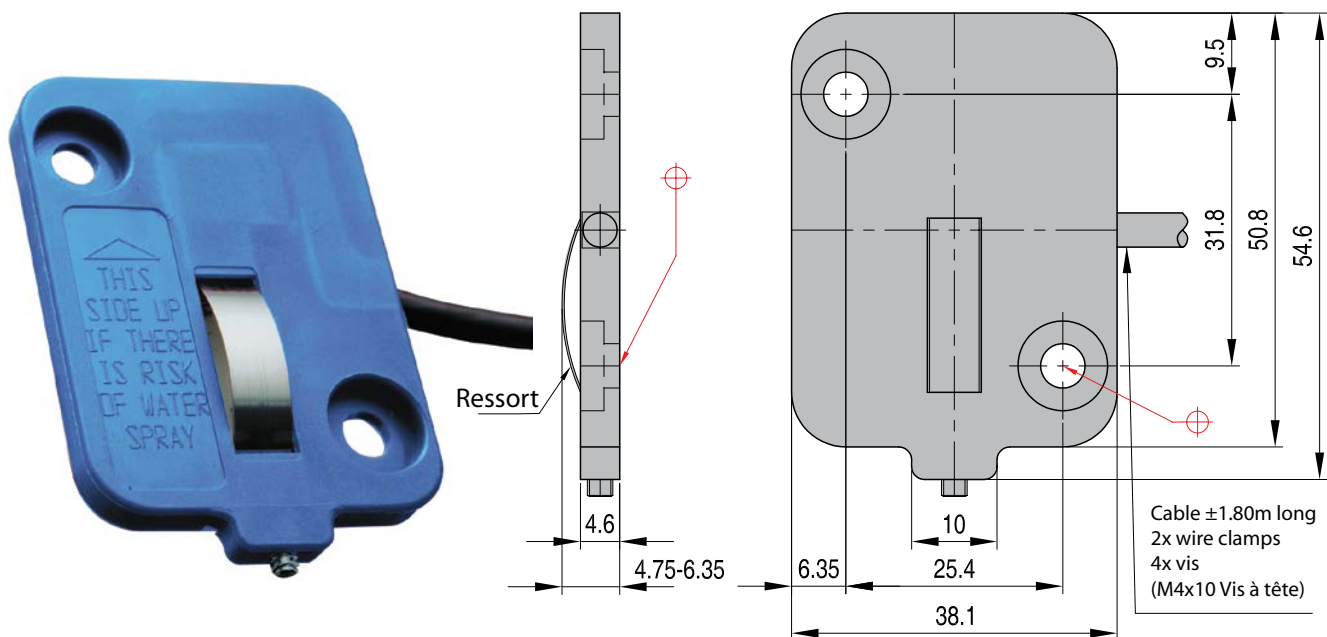
Tooling Supplies

Thinswitch™	42
Machine filter	46
Quick action ejector	48
Knockout Coupler.....	49
Screws	51
Hoist rings.....	54
Mold Clamps.....	69
Clamping System	71
Service Table.....	76
Wax Gun	77



Tooling Supplies





REF
TSW2220 EU

Specially designed to verify ejector plate return before permitting the mold to close in injection molding machines.

Thin enough to fit inside the ejector plate, it can also be used for core slides, or any place space is limited.

The Thinswitch Limitswitch has been tested for reliability over 10 million cycles without failure. Two switches can be used in series for larger molds to ensure the ejector plate return, preventing costly mold damage.

Prevents costly damage by ensuring the ejector assembly is fully returned.

Adjustable operating point allows actuation between 4.75 and 6.35 mm from the base.

To be fitted behind the ejector plate in the space provided by stop button.

Included mounting hardware allows easy installation of the Thinswitch Limit Switch.

Stripped and tinned 1.80 m wire leads make the switch ready to install without modification.

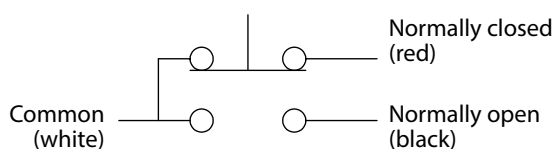
79°C standard temperature rating enables use for most molding applications.

Quality tested over 10 million cycles to provide long dependable service.

48 VAC	1 Amps resistive
	1 Amps inductive
40 VDC (sea level)	1 Amps resistive
	1 Amps inductive
Operating Temperature	79°C
Switching	SPDT
Material Body	Fiberglass-reinforced nylon
Material Spring	Stainless Steel
Back Cover	Polyester film
Wire leads	0.5 mm stranded, 3-conductor, shielded cable, 1.80 m long, ends stripped and tinned
Safety class	IP 31

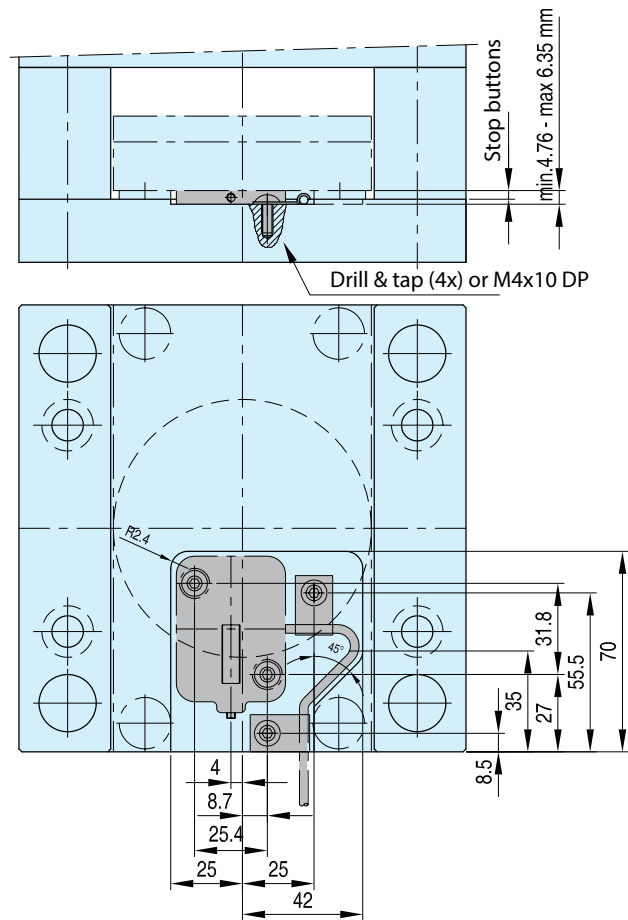
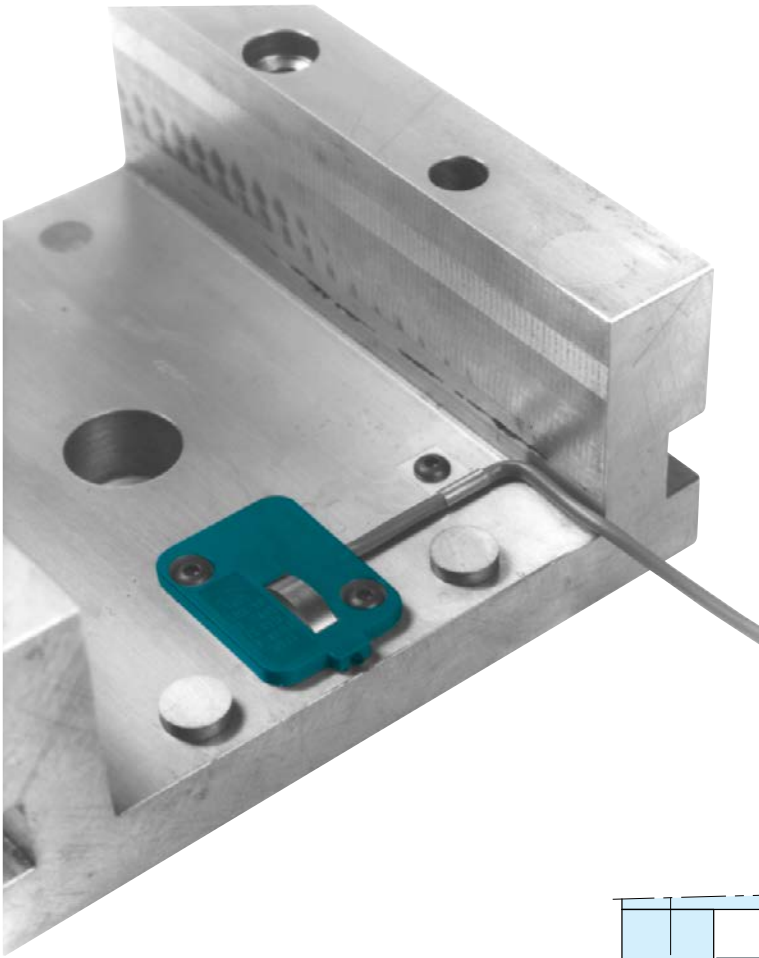
The Thinswitch™ Limit Switch is designed for use in very low power mold protection control circuits. It is not intended to switch heavy loads in power applications.

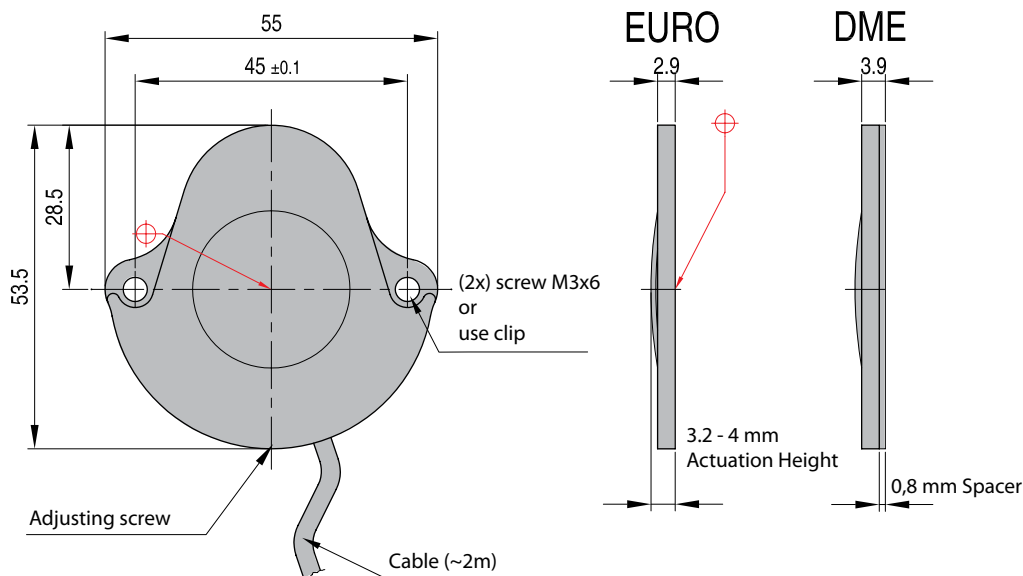
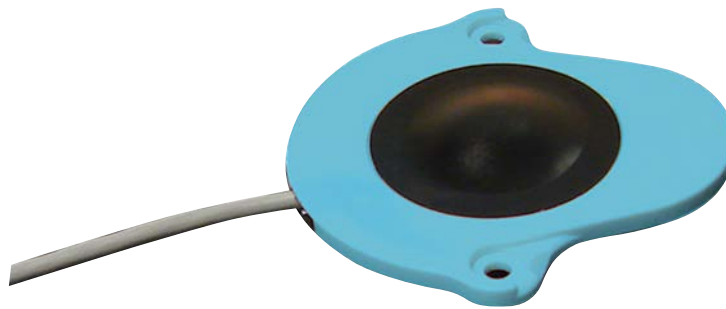
Schematic Diagram



Thinswitch™ Limit Switch

TSW2220 EU





REF
TSW2222

A limit switch specially designed for use in injection molds with 3mm and 4mm rest buttons to verify that the ejector plate assembly is fully returned before allowing a mold to close after part ejection.

Switch mounting is accomplished using integral mounting holes, or by using a special bracket (included) that allows the switch to slide into place from the edge of the mold base without disassembling the mold.

A polyurethane dome and wire seal protect the internal switch mechanism from water or oil contamination, providing a longer switch life. Reliability for over 14 million cycles without failure.

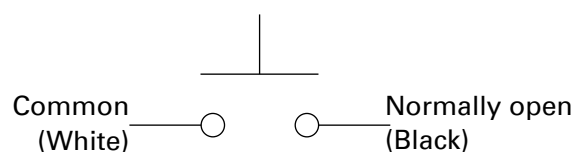
Prevents expensive mold repair and maximizes uptime.

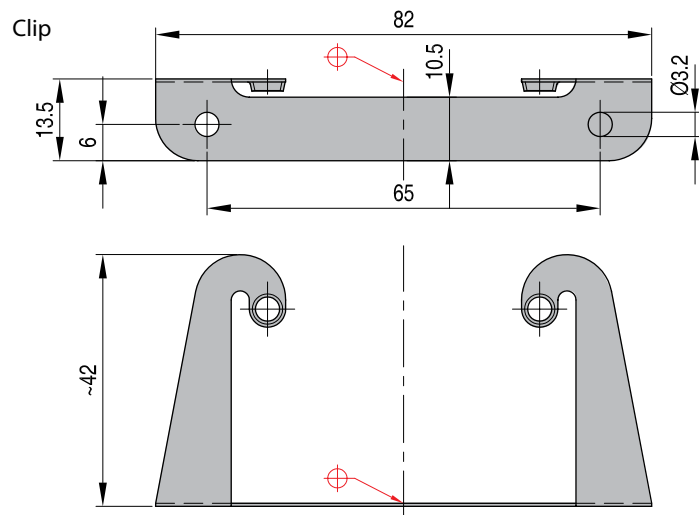
Suitable for use in environments up to 80°C SPST Switching action, with gold-plated internal contacts for reliable operation.

Comes with wire leads (28 gauge stranded) and 2-conductor shielded cables, 2m long.

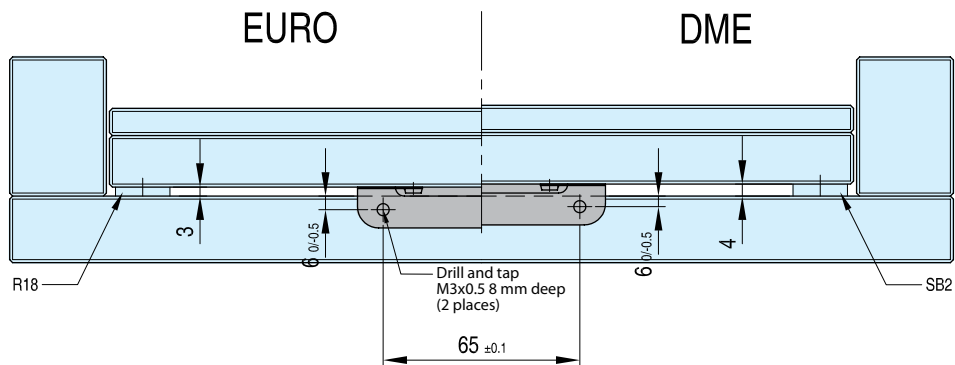
	Max T	80°C
Switching		SPST
Mat body		Fiberglass-reinforced nylon
Mat dome		Polyurethane
Back cover		Polyester film
Rated current (resistive) at 24VDC:		
mAmps		°C
100		30
90		50
80		68
70		80
Not intended for inductive loads		

Schematic Diagram





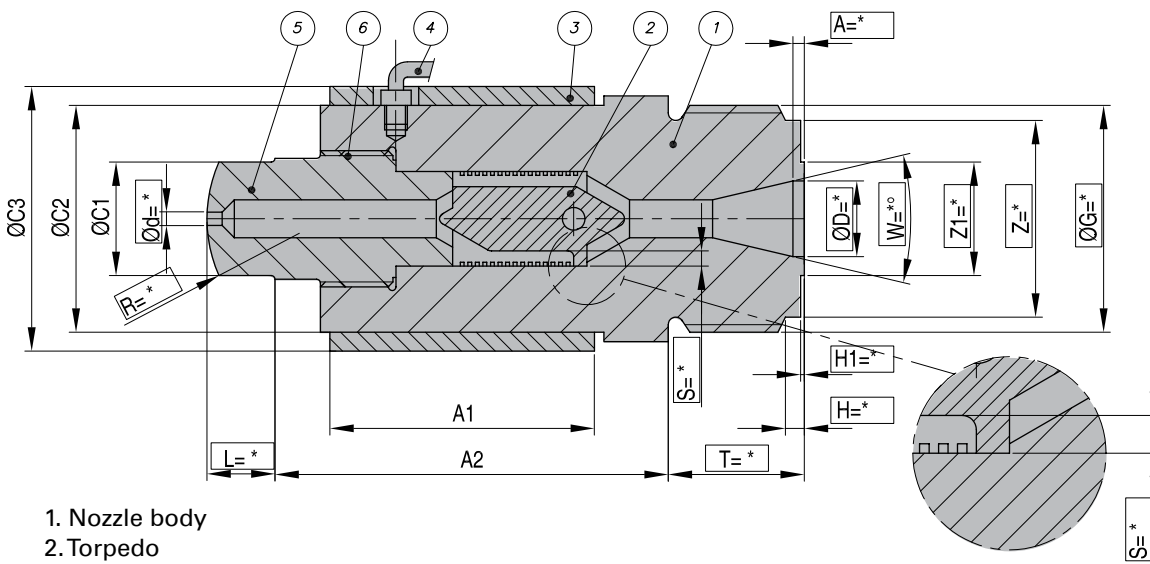
Installation instructions for bracket



26/06/2017 CAD reference point

OKW-UR

Machine filter



- 1. Nozzle body
- 2. Torpedo
- 3. Heater band
- 4. Thermocouple
- 5. Nozzle tip
- 6. Filter adjustment indicator
- S = Filter opening
- * = Required customer information

REF	Type	A1	A2	C1	C2	C3	d	R	L	T	D	W°	G	S	A	H	Z	H1	Z1
OKW-UR1	I = 300gr	89	102	30	60	70	*	*	*	*	*	*	*	*	*	*	*	*	*
OKW-UR2	II = 1200gr	120	138	30	80	90	*	*	*	*	*	*	*	*	*	*	*	*	*
OKW-UR3	III = 2500gr	150	170	40	100	110	*	*	*	*	*	*	*	*	*	*	*	*	*

The new OKW-UR Machine Filter Nozzle is an economical way to improve molding efficiency and part quality.

Capable of easily processing recycled material, the OKW-UR Machine Filter Nozzle prevents gate obstructions that may occur with foreign materials. Filter sizes from 0,2mm are available. The various filter gaps are obtained by changing the insert. Smooth and quick cleaning is accomplished by simply unscrewing the nozzle tip 4-8mm, purging to clean the filter, refasten tip and tighten nozzle tip.

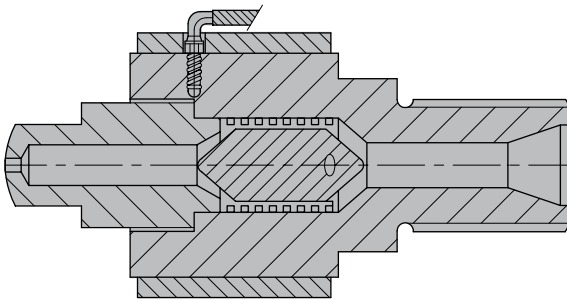
The new OKW-UR Machine Filter Nozzle is appropriate for all unfilled plastics (e.g. PE, PP, PS, ABA and PA). Material flow has been thoroughly computed for minimal pressure loss and minimal heat increase. By avoiding sharp corners, material is not degraded by frictional heat or shear stress.

Part weight is dependent upon material type, flow volume, injection time and filter size. The OKW-UR Filter Nozzle is available in three sizes: 300 grams, 1200 grams and 2500 grams. A smooth flow channel enables fast color or material changes. A band heater on the filter body prevents material heat loss during filtration. The OKW-UR Machine Filter Nozzle has an average payback period of six months.

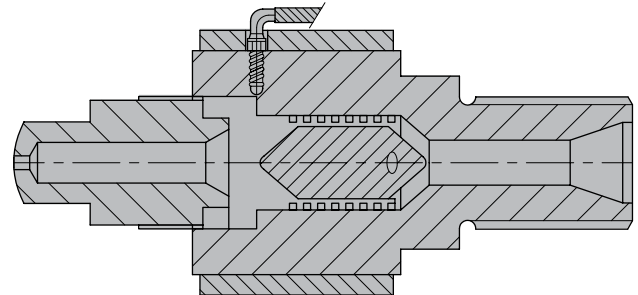


Instructions for use

Filter position



Cleaning position



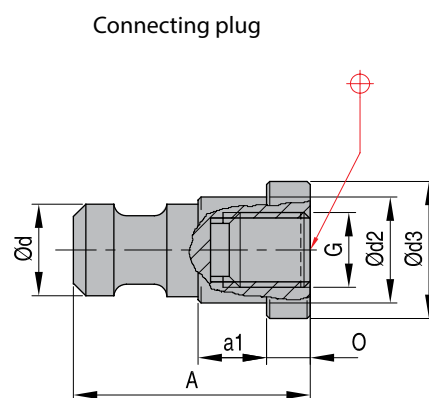
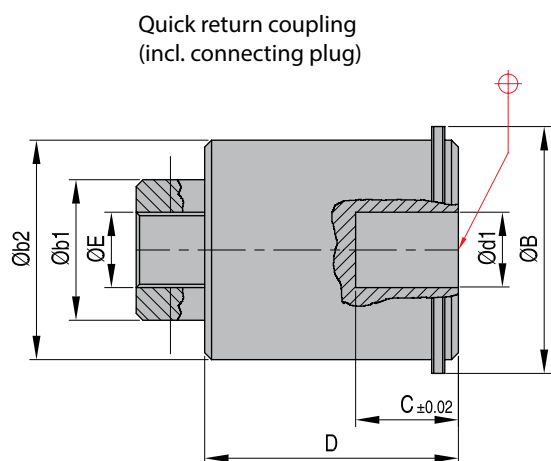
1. For depressurization of the screw, use screw pullback. Or, if there is no decompression available, leave screw in forward position.
2. Unscrew tip to end of thread (dependent on nozzle - typically 4-8mm).
3. Obeying safety rules, air purge one or two times with reduced injection pressure.
4. Fasten tip and tighten.
5. Resume normal information.

Included in the order

- Heater band
- Thermocouple
- Ringwrench (for cleaning)
- Directions for use

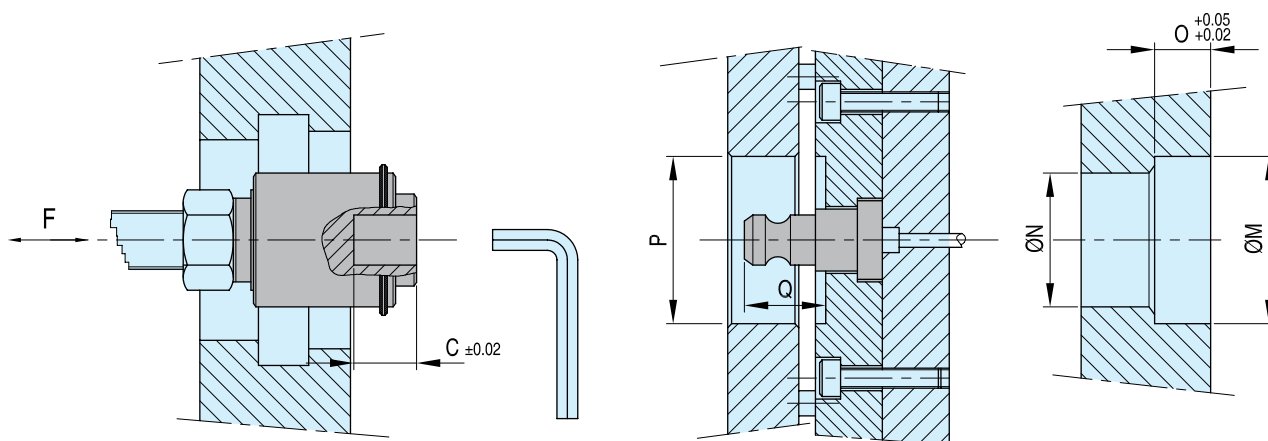
AR

Quick action ejector return couplings for presses with hydraulic ejection



REF	Description	A	B	b1	b2	d1	C	D	E	M	N	O
AR01	coupling + plug	38	43	24	38	15	18	43,5	M16	23	18	7
AR02	coupling + plug	43	73	42	67	30	24	75,5	M20	42	32	8
AR01P	plug	38								23	18	7
AR02P	plug	43								42	32	8

Installation

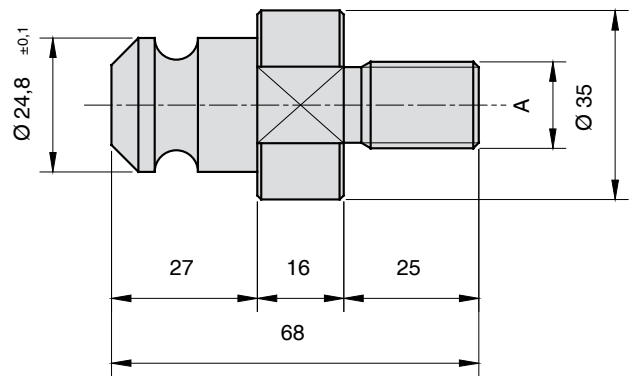
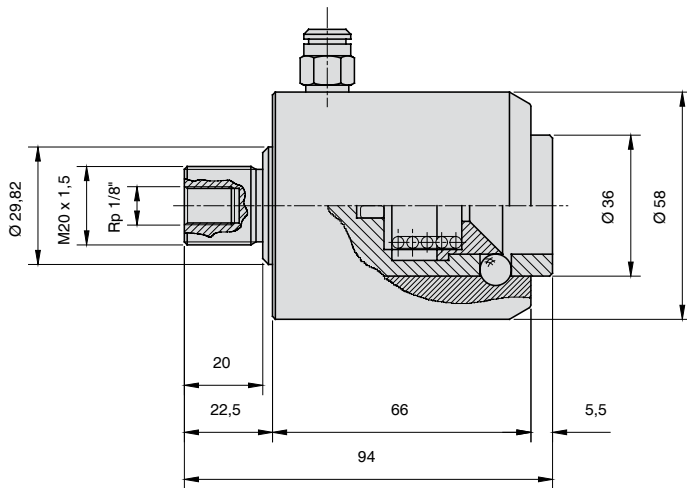


REF	Pmin.	Qmin.	a1	d	d2	d3	G	F	SW
AR01	48	C+1	11	14,7	17,4	22,5	M12	40 kN	19
AR02	80	C+1	14	29,5	29,4	40,0	M16	140 kN	32
AR01P			11	14,7	17,4	22,5	M12		
AR02P			14	29,5	29,4	40,0	M16		

Air operated quick Knockout Coupler for machines with hydraulic ejection

QKAC - QKBMA - QKB

Maxi Coupler



Maxi Coupler

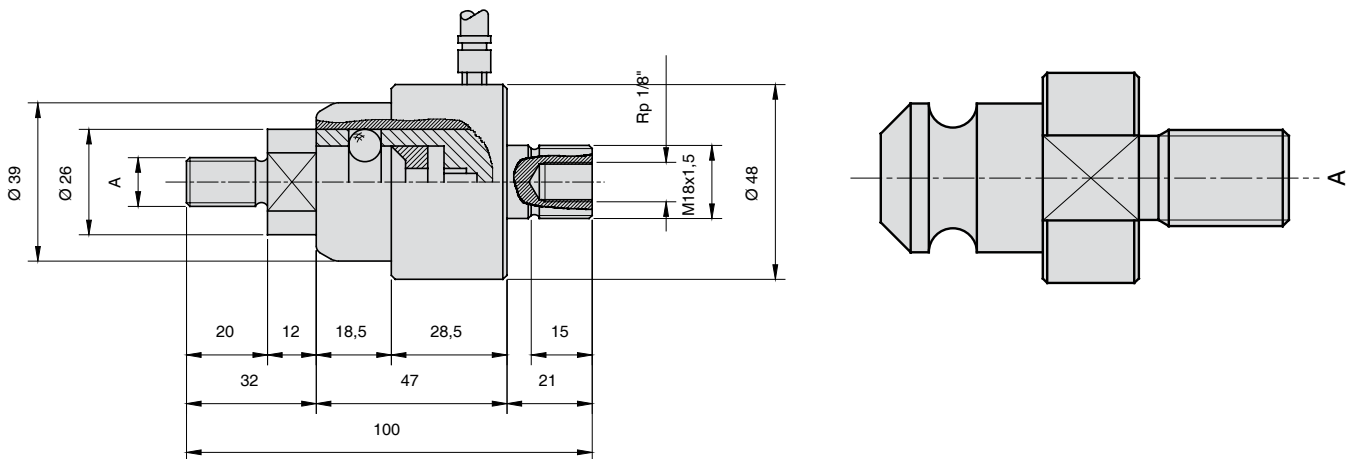
Maxi Barbs

REF	Pulling Force	REF	A
QKAC x 20 max	3400 kg (max)	QKB MA x 16	M16 x 2
		QKB MA x 18	M18 x 2,5
		QKB MA x 20	M20 x 2,5
		QKB MA x 24	M24 x 3
		QKB MA x 27	M27 x 3
		QKB MA x 30	M30 x 3,5

QKAC - QKBMA - QKB

Air operated quick Knockout Coupler for machines with hydraulic ejection

Standard Coupler



Standard Coupler

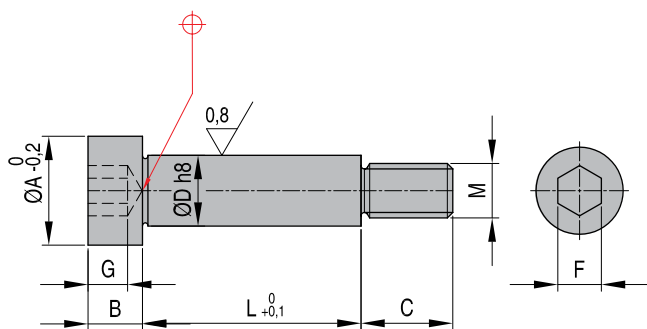
Standard Barbs

REF	Pulling Force	REF	A
QKAC x 18	2700 kg (max)	QKB 401-M16	M16 x 2
		QKB 411-M20	M20 x 2,5
		QKB 411-M24	M24 x 3
		QKB 411-M30	M30 x 3,5

PM

Shoulder screws

Mat.: 35 NC 6 ±1100-1200 N/mm²



Order example for first item (PM + M + L): **PM506**

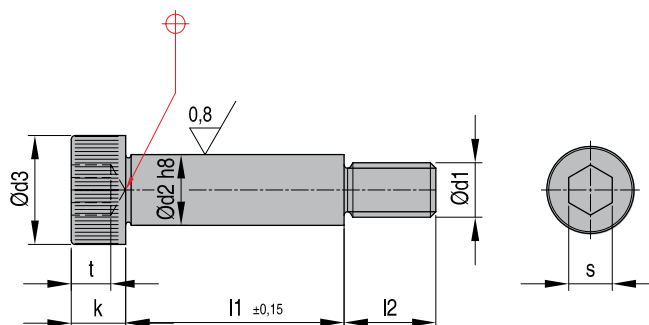
M	L																A	B	C	D	F	G										
	06	08	10	12	14	16	20	25	30	32	40	50	60	63	70	80							90	100	110	120	125	140	160			
5																										9	4	8	6	3	2,5	
6																											11	5	10	8	4	3,0
8																											14	6	12	10	5	4,0

M	L																A	B	C	D	F	G									
	08	10	12	14	16	20	25	30	32	40	50	60	70	80	90	100							110	120	125	140	160	200	250		
10																										18	8	16	12	6	5,0
12																										22	10	20	16	8	6,0
16																										28	12	25	20	10	8,0
20																										36	16	32	25	14	11,0
24																										45	20	40	32	17	12,0

WZ412

Shoulder screws

Mat.: Case hardening steel 12.9
DIN 267



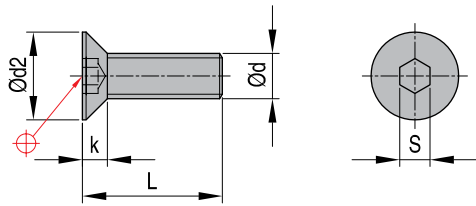
Order example for first item (WZ412 + d2 + l1): **WZ4120610**

d2	l1												d1	d3	k	l2	S	tmin		
	010	016	020	025	030	040	050	060	070	080	090	100							120	
06															M5	10	4,5	9,5	3	2,4
08															M6	13	5,5	11,0	4	3,3
10															M8	16	7,0	13,0	5	4,1
12															M10	18	9,0	16,0	6	4,9
16															M12	24	11,0	18,0	8	6,2
20															M16	30	14,0	22,0	10	8,8
24															M20	36	16,0	27,0	12	10

Socket head countersunk screws

SM

Mat.: DIN 7991-10.9



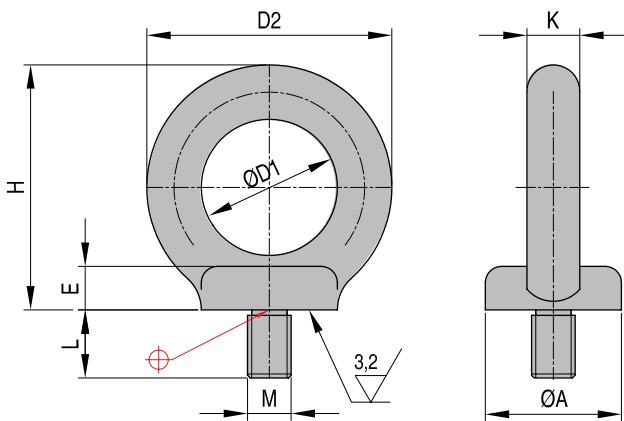
Order example for first item (SM + d + 10): **SM310**

d	L											k	s	d2
	8	10	12	16	20	25	30	35	40	45	50			
M3												1,7	2,0	6
M4												2,3	2,5	8
M5												2,8	3,0	10
M6												3,3	4,0	12
M8												4,4	5,0	16
M10												5,5	6,0	20
M12												6,5	8,0	24

Eyebolts

RM

1.7131 60 HRC

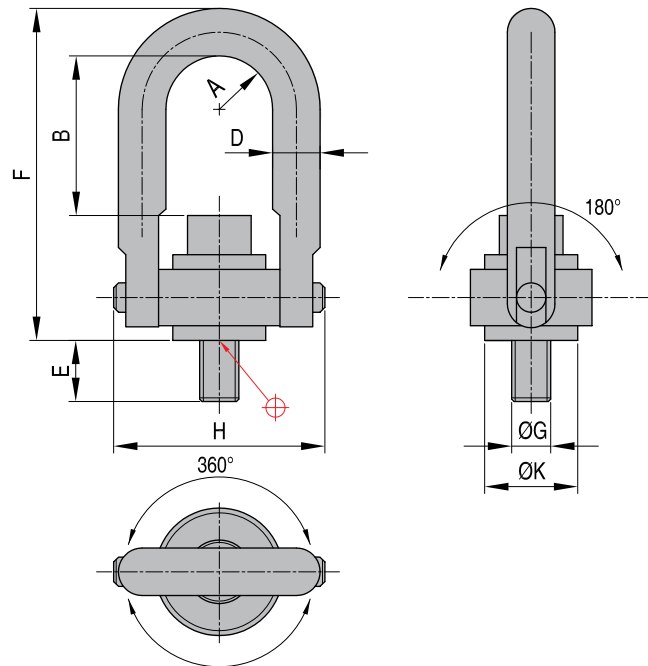


REF	A	D1	D2	L	H	(N)	K	M
RM08	20	20	36	13,0	36	1400	8	M8 x 1,25
RM10	25	25	45	17,0	45	2300	10	M10 x 1,50
RM12	30	30	54	20,5	53	3400	12	M12 x 1,75
RM14	35	35	63	27,0	62	4900	14	M14 x 2,00
RM16	35	35	63	27,0	62	7000	14	M16 x 2,00
RM18	40	40	72	30,0	71	9000	16	M18 x 2,50

REF	A	D1	D2	L	H	(N)	K	M
RM20	40	40	72	30,0	71	12000	16	M20 x 2,50
RM22	45	45	92	34,0	90	15000	18	M22 x 2,50
RM24	50	50	90	36,0	90	18000	20	M24 x 3,00
RM27	50	50	90	36,0	90	18000	20	M27 x 3,00
RM30	65	60	108	45,0	109	36000	24	M30 x 3,50
RM36	75	70	126	54,0	128	51000	28	M36 x 4,00

SHM - SHMR

Hoist rings - CE



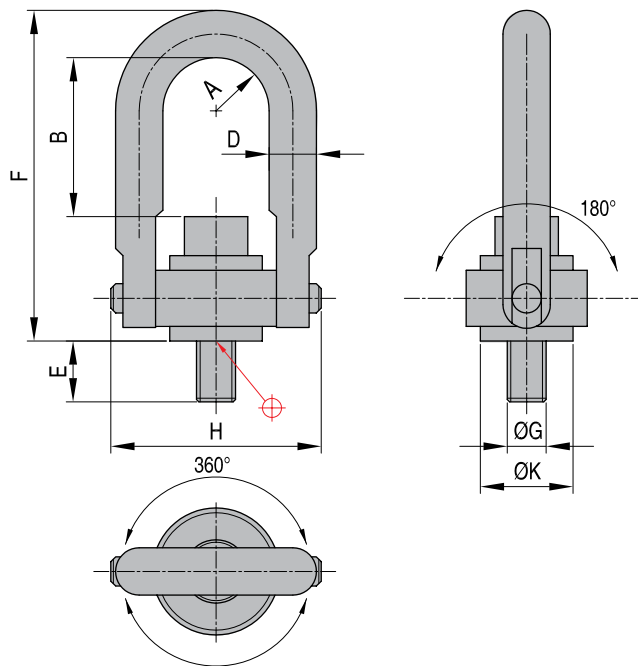
REF	G	A	B	D	E	F	H	K	TL (Kgm)	P (Kg)	W (Kg)
SHM0001	M8x1,25	10,9	32,0	9,7	12,5	67,8	46,7	19,0	1,0	400	0,17
SHM0002	M10x1,50		30,0	9,7	17,5	67,8			1,7	450	0,17
SHM0003	M12x1,75		60,5	19,0	19,0	121,4			3,8	1050	1,08
SHM0004	M16x2,00	22,4	56,5	29,0	29,0	121,4	89,4	38,1	8,2	1900	1,12
SHM0005	M20x2,50		52,5	34,0	34,0	121,4			13,6	2150	1,19
SHM0006	M24x3,00	35,6	69,0	37,0	37,0	165,6	130,6	58,7	31,0	4200	3,10
SHM0007	M30x3,50	44,5	107,4	41,9	41,9	221,7	165,1	81,0	60,0	7000	6,30
SHM0009	M36x4,00	57,2	166,5	63,5	63,5	316,7	217,2	106,4	100,0	11000	15,50
SHM0010	M42x4,50		160,5	68,0	68,0	316,7				12500	16,00
SHM0011	M48x5,00		154,5	82,4	82,4	316,7				13500	16,80
SHM0012	M64x6,00		210,0	101,6	101,6	419,1				290,0	22500
Spare parts REF	G										
SHMR0001	M8x1,25										
SHMR0002	M10x1,50										
SHMR0003	M12x1,75										
SHMR0004	M16x2,00										
SHMR0005	M20x2,50										
SHMR0006	M24x3,00										
SHMR0007	M30x3,50										
SHMR0009	M36x4,00										
SHMR0010	M42x4,50										
SHMR0011	M48x5,00										
SHMR0012	M64x6,00										

Features

- Pivots and swivels to compensate for pitch, roll and sway when lifting heavy or unbalanced loads.
- High strength alloy steel with minimum tensile strength of 1,250 MPa (125 kg/mm²)
- Certified heat treatment with 100% Magnaflux inspection.
- Corrosion resistant plating.
- Maximum operating temperature 200°C
- Safety factor is 5 times the rated load in any direction.

Note

- standard tolerance: ±0,8 mm
- E = the use of spacers between bushing flange and mounting surface is not recommended as this will reduce the safety load rating.
- TL = recommended torque load +25% - 0.
- P = rated
- W = weight



REF	A	B	D	E	F	G	H	K	TL (Kgm)	P (Kg)	W (Kg)
SHR0001	0,43	1 1/4"	0,38	9/16	2,67	5/16"-18	1,84	0,75	1	360	0,15
SHR0002	0,43	1 1/4"	0,38	9/16	2,67	3/8"-16	1,84	0,75	1,6	450	0,15
SHR0003	0,88	2 3/8"	0,75	3/4	4,78	1/2"-13	3,52	1,5	3,8	1130	1,05
SHR0004	0,88	2 1/4"	0,75	1	4,78	5/8"-11	3,52	1,5	8,3	1810	1,10
SHR0005	0,88	2 1/8"	0,75	1	4,78	3/4"-10	3,52	1,5	13,8	2260	1,16
SHR0006	1,44	2 11/16"	1	1 1/2"	6,52	1-8	5,14	2,31	31,7	4525	3,17
SHR0007	1,75	4 1/4"	1,25	1 7/8"	8,73	1 1/4"-7	6,5	3,19	64,8	6785	6,34
Repair kit - screw & retainer ring											
REF	G										
SHRR0001	5/16-18										
SHRR0002	3/8-16										
SHRR0003	1/2-13										
SHRR0004	5/8-11										
SHRR0005	3/4-10										
SHRR0006	1-8										
SHRR0007	1 1/4-7										

Features

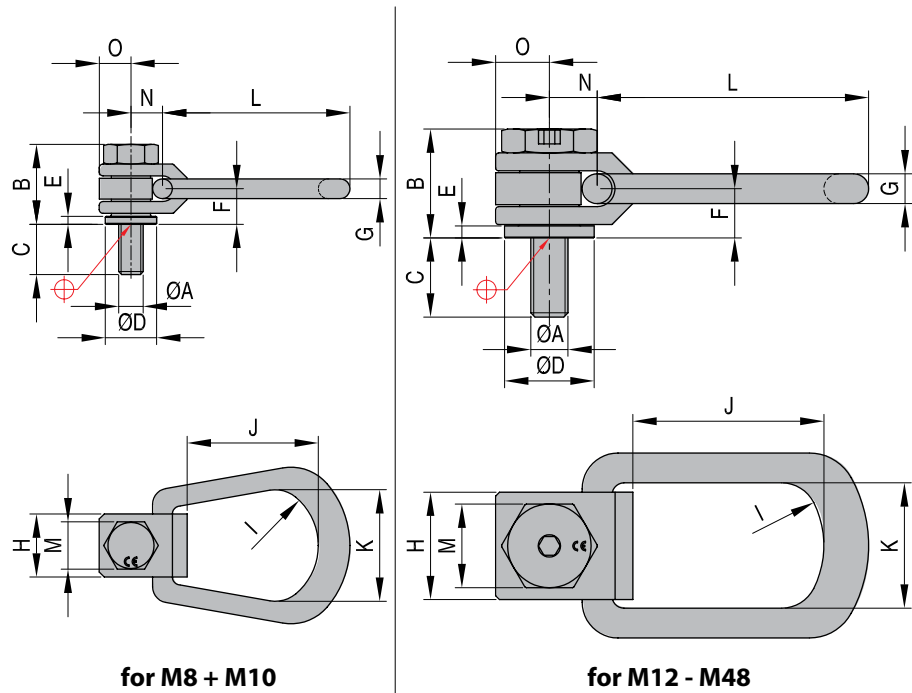
- Pivots and swivels to compensate for pitch, roll and sway when lifting heavy or unbalanced loads
- High strength alloy steel with minimum tensile strength of 1,250 MPa (125 kg/mm²)
- Certified heat treatment with 100% Magnaflux inspection
- Corrosion resistant plating
- Maximum operating temperature 200°C
- Safety factor is 5 times the rated load in any direction

Note

- standard tolerance: ±0,8 mm
- E = the use of spacers between bushing flange and mounting surface is not recommended as this will reduce the safety load rating
- TL = recommended torque load +25% - 0
- P = rated
- W = weight

SHSP

Side pull hoist rings - CE



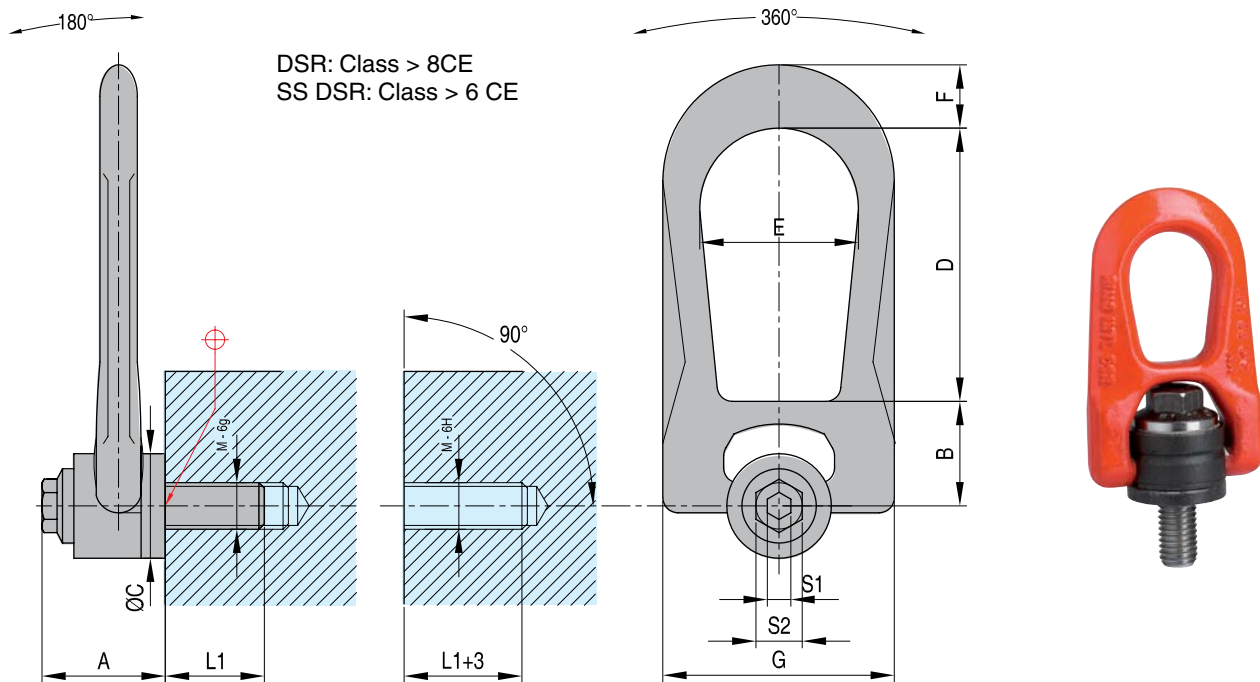
REF	P (Kg)	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	TL
SHSP-0001	325	M8x1,25	33	16	21	3	14	8	25	25	25	44	76	19	13	13	5
SHSP-0002	500	M10x1,5		20													10
SHSP-0003	725	M12x1,75	48	24	35	4	21	13	44	38	86	51	120	32	19	22	20
SHSP-0004	1400	M16x2		32													48
SHSP-0005	2290	M20x2,5	59	40	48	6	26	16	57	51	102	67	145	44	25	29	70
SHSP-0006	3050	M24x3		48	83												140
SHSP-0007	4850	M30x3,5	90	60	83	9	42	27	95	76	196	111	265	76	49	48	350
SHSP-0009	7500	M36x4		72													550
SHSP-0010	8700	M42x4,5		84													800
SHSP-0011	10000	M48x5		96													1200

Features

For lifting molds, tools and dies. Full swivel and pivot action flip and turn parts without unhooking. 200% proof tested. Safety factor is 5 times the rated load capacity. High quality alloy steel, finish black oxide.
 •TL = recommended torque load +25% - 0.

Double swivel ring

DSR - SS DSR



REF	P	SF	KT	M	TL	L1	S1	S2	A	B	C	D	E	F	G		
DSRM8	3000	5	4	M 8 (x1,25)	6	14	8	16	33	30	30	38	27	14	53		
DSRM10	6000		5	M 10 (x1,50)	10	17											
DSRM12	10000		6	M 12 (x1,75)	15	21											
DSRM14*	13000	5	6	M 14 (x2)	30	23	8	20	45	42	45	54	38	17	76		
DSRM16	16000		7	M 16 (x2)	50	27											
DSRM18*	20000		7	M 18 (x2,5)	70	27											
DSRM20	25000	5	9	M 20 (x2,5)	100	30	14	24	62	55	60	83	55	25	107		
DSRM22*	30000		9	M 22 (x2,5)	120	33											
DSRM24	40000		11	M 24 (x3)	160	36											
DSRM27*	50000	5	13	M 27 (x3)	160	40	14	24	62	55	60	83	55	25	107		
DSRM30	63000		14	M 30 (x3,5)	250	45											
REF	P	SF	KT	M	TL	L1	S1	S2	A	B	C	D	E	F	G		
SSDSR6M8	3000	5	4	M 8 (x1,25)	6	16	6	13	32	30	30	39	28	13	53		
SSDSR13M8	3000		4	M 8 (x1,25)	6	16											
SSDSR8M10	5000		5	M 10 (x1,50)	10	16										8	34
SSDSR17M10	5000		5	M 10 (x1,50)	10	16										17	31
SSDSR10M12	8000		6	M 12 (x1,75)	15	19										10	33
SSDSR19M12	8000	5	6	M 12 (x1,75)	15	19	19	30	44	40	42	54	38	17	77		
SSDSR24M16	15000		7	M 16 (x2)	50	26										24	
SSDSR30M20	16000		7	M 20 (x2,5)	100	30										30	43

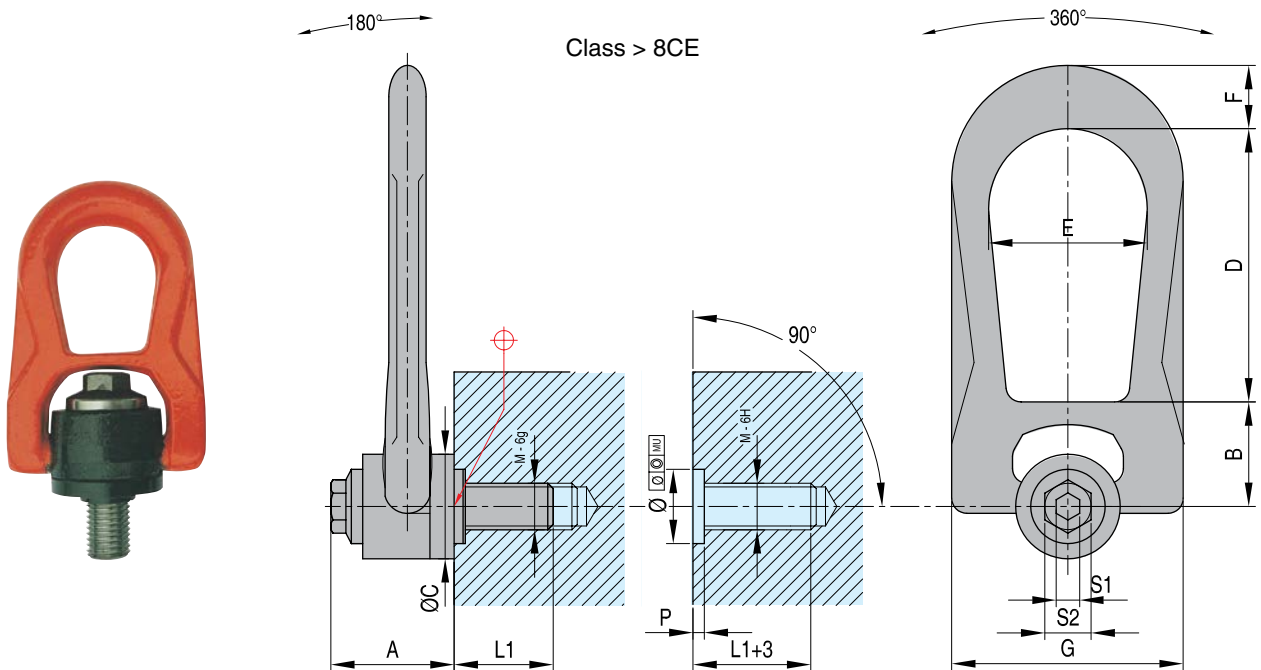
*Non standard

Two free articulations
 Very low overhang for improved safety
 Automatic realignment of the ring when in traction 90°
 Large support surface for a very high Resistance
 Two ways of tightening: either by open-ended spanner, or by allen key
 Improved stability with DSR C through centering section

P = max load in Newton
 SF = safety factor
 KT = chain classification number
 TL = recommended tightening torque in NewtonMetre

DSRC

Double swivel ring with centering

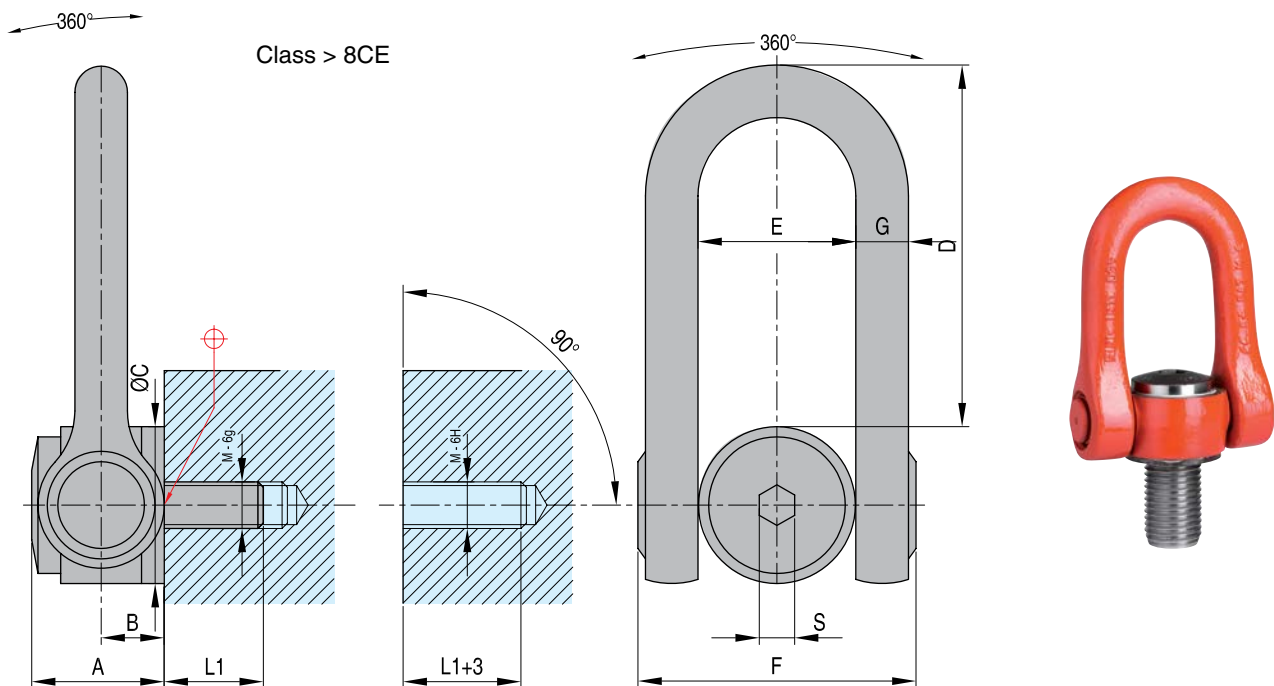


REF	P	SF	KT	M/Ø	TL/ Nm	L1	S1	S2	A	B	C	D	E	F	G	P
DSRCM8	3000	5	4	16 0/+0,25	6	14	8	16	33	30	30	38	27	14	53	3 +0,5/+1
DSRCM10	6000		5	20 0/+0,25	10	17										
DSRCM12	10000		6	20 0/+0,25	15	21										
DSRCM14*	13000	5	6	20 0/+0,25	30	23	8	20	45	42	45	54	38	17	76	3 +0,5/+1
DSRCM16	16000		7	20 0/+0,25	50	27										
DSRCM18*	20000		7	30 0/+0,30	70	27										
DSRCM20	25000	5	9	30 0/+0,30	100	30	14	24	62	55	60	83	55	25	107	4 +0,5/+1
DSRCM22*	30000		9	30 0/+0,30	120	33										
DSRCM24	40000		11	30 0/+0,30	160	36										
DSRCM27*	50000	5	13	36 0/+0,30	160	40	14	24	62	55	60	83	55	25	107	4 +0,5/+1
DSRCM30	63000		14	36 0/+0,30	250	45										

*Non standard

Two free articulations
 Low overhang designed for total safety
 Improved stability with DSS C through centering section
 Perfectly symmetrical
 Screwing with allen key
 From M 33 to M 64 as standard; for loads 6.3 to 32.1 t
 High tensile

P = max load in Newton
 SF = safety factor
 KT = chain classification number
 TL = recommended tightening torque in NewtonMetre



REF	P	S.F.	KT	M/σ	TL/Nm	L1	S	A	B	C	D	E	F	G
DSSM33*	80000	5	14	M 33 (x3,5)	250	50	19	61	31	70	104	73	145	29
DSSM36	100000		18	M 36 (x4)										
DSSM36x3*	100000		18	M 36 (x3)										
DSSM39*	100000		18	M 39 (x4)										
DSSM42	125000	5	20	M 42 (x4,5)	400	63	19	61	31	70	104	73	145	29
DSSM42x3*	125000		20	M 42 (x3)										
DSSM45*	150000	4	22	M 45 (x4,5)	400	63	19	61	31	70	104	73	145	29
DSSM48	200000	4	26	M 48 (x5)	600	68	19	79	38	90	125	91	184	33
DSSM48x3*	200000		26	M 48 (x3)										
DSSM48x4*	200000		26	M 48 (x4)										
DSSM52*	200000		26	M 52 (x5)										
DSSM56	250000	4	28	M 56 (x5,5)	600	78	19	79	38	90	125	91	184	33
DSSM 56x4*	250000		28	M 56 (x4)										
DSSM64	321000	4	36	M 64 (x6)	600	90	19	79	38	95	125	91	184	33
DSSM64x4*	321000		36	M 64 (x4)										
DSSM72*	321000		36	M 72 (x6)										
DSSM72x4*	321000		36	M 72 (x4)										
DSSM80*	321000		36	M 80 (x6)										
DSSM100*	321000		36	M 100 (x6)										

*Non standard

Two free articulations
 Low overhang designed for total safety
 Improved stability with DSS C through centering section
 Perfectly symmetrical
 Screwing with allen key
 From M 33 to M 64 as standard; for loads 6.3 to 32.1 t
 High tensile

P = max load in Newton

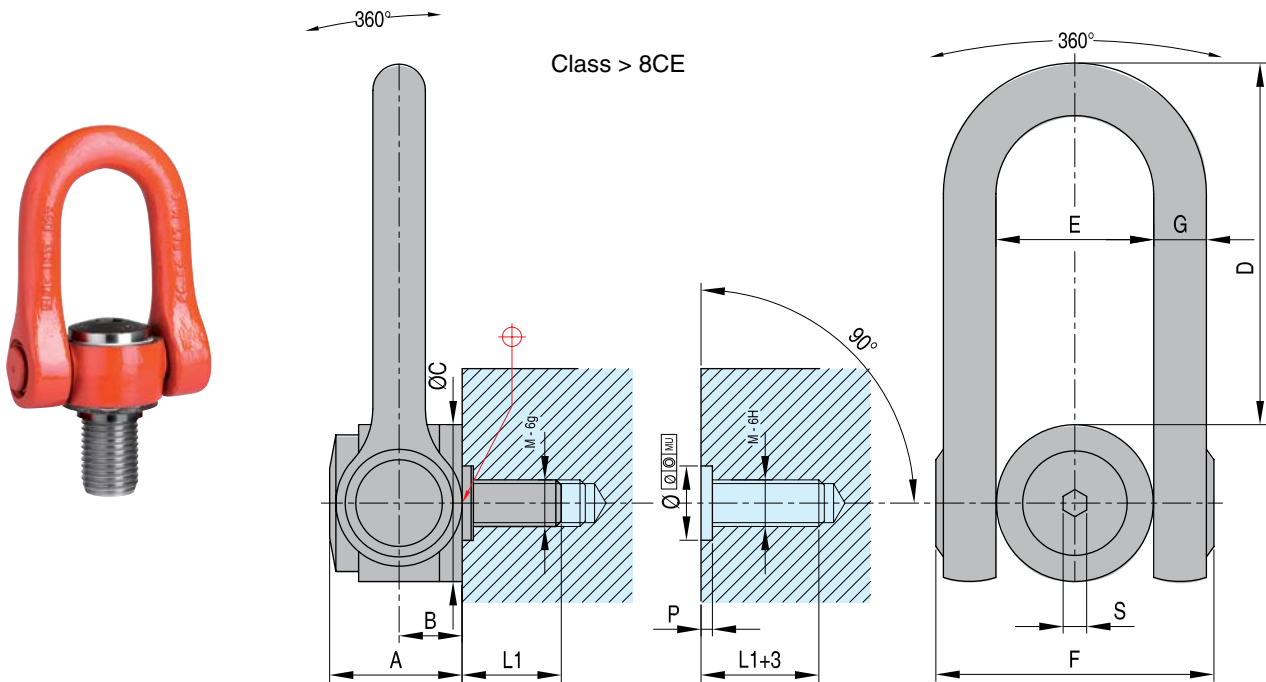
SF = safety factor

KT = chain classification number

TL = recommended tightening torque in NewtonMetre

DSSC

Double swivel shackle with centering



REF	P	S.F.	KT	M/σ	TL/Nm	L	S	A	B	C	D	E	F	G	P
DSSCM33*	8000	5	14	48 +0,10/+0,30	250	50	19	61	31	70	104	73	145	29	6 +0,5/+1
DSSCM36	10000	5	18	48 +0,10/+0,30	320	54	19	61	31	70	104	73	145	29	6 +0,5/+1
DSSCM36x3*															
DSSCM39*															
DSSCM42	12500	5	20	48 +0,10/+0,30	400	63	19	61	31	70	104	73	145	29	6 +0,5/+1
DSSCM42x3*															
DSSCM45*	15000	4	22	48 +0,10/+0,30	400	63	19	61	31	70	104	73	145	29	8 +0,5/+1
DSSCM48	20000	4	26	64 +0,60/+0,10	600	68	19	79	38	90	125	91	184	33	8 +0,5/+1
DSSCM48x3*															
DSSCM48x4*															
DSSCM52*															
DSSCM56	25000	4	28	64 +0,60/+0,10	600	78	19	79	38	90	125	91	184	33	8 +0,5/+1
DSSCM56x4*															
DSSCM64	32100	4	36	74 +0,60/0,10	600	90	19	79	38	95	125	91	184	33	10 +0,5/+1
DSSCM64x4*															

*Non standard

Improvement: The hook does not scrape the tool when in traction at 90°

Three free articulations

Very low overhang designed for total safety

Perfectly symmetrical

Two ways of tightening: either by open-ended spanner, or by allen key for total quality

Improved stability with TSR C through centering section

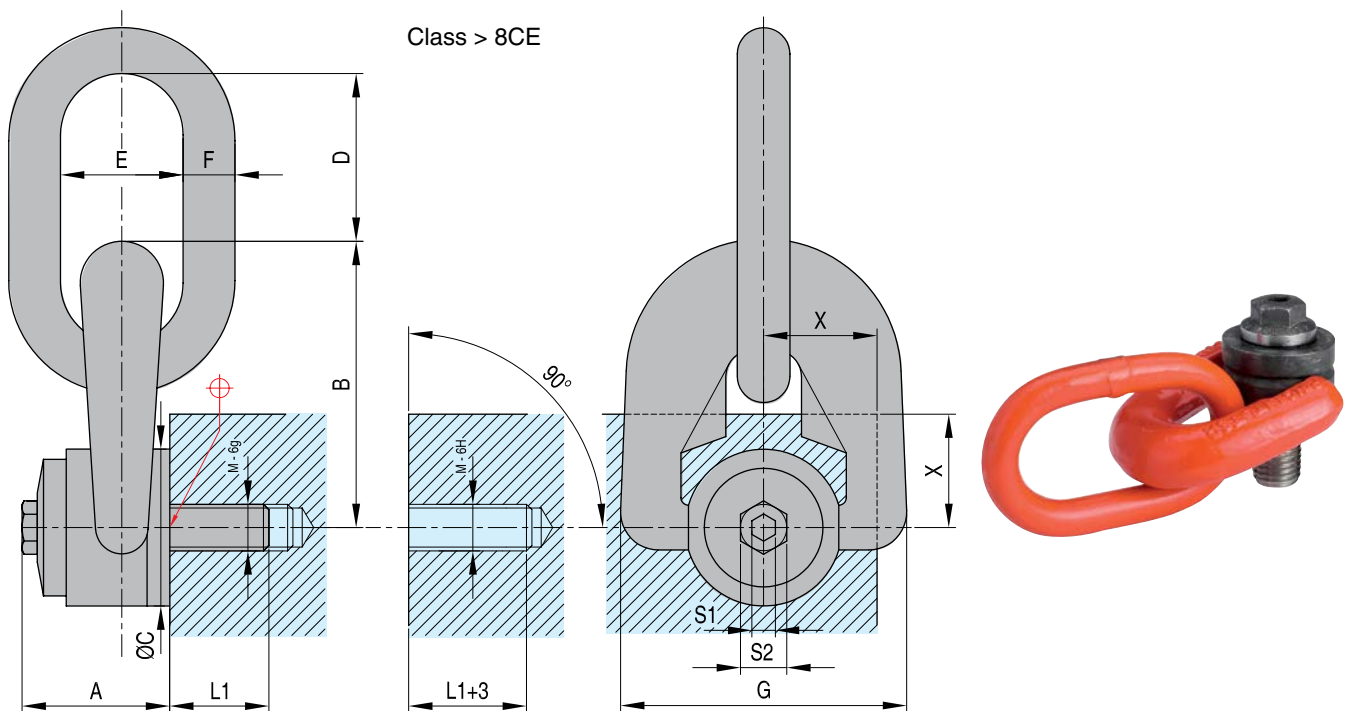
High tensile

P = max load in Newton

SF = safety factor

KT = chain classification number

TL = recommended tightening torque in NewtonMetre



REF	P	S.F.	KT	M/β	TL/Nm	L1	X	S1	S2	A	B	C	D	E	F	G
TSRM8	3000	5	4	M 8 (x1,25)	6	14	18	8	16	33	56	30	41	25	10	58
TSRM10	6000		5	M 10 (x1,50)	10	17										
TSRM12	10000		6	M 12 (x1,75)	15	21										
TSRM14*	13000	5	6	M 14 (x2)	30	23	24	8	20	45	76	45	56	37	14	79
TSRM16	16000		7	M 16 (x2)	50	27										
TSRM18*	20000		7	M 18 (x2,5)	70	27										
TSRM20	25000	5	9	M 20 (x2,5)	100	30	28	14	24	62	105	60	80	45	20	106
TSRM22*	30000		9	M 22 (x2,5)	120	33										
TSRM24	40000		11	M 24 (x3)	160	36										
TSRM27*	50000	5	13	M 27 (x3)	160	36	45	19	30	81	140	80	111	71	30	148
TSRM30	63000		14	M 30 (x3,5)	250	45										
TSRM36	100000		18	M 36 (x4)	320	54										
TSRM42	125000	4	20	M 42 (x4,5)	400	63	58	19	30	100	178	110	135	90	42	180
TSRM48	200000		26	M 48 (x5)	600	68										
TSRM56	220000		36	M 56 (x5,5)	600	78										

***Non-Standard**

Improvement: The hook does not scrape the tool when in traction at 90°

Three free articulations

Very low overhang designed for total safety

Perfectly symmetrical

Two ways of tightening: either by open-ended spanner, or by allen key for total quality

Improved stability with TSR C through centering section

High tensile

P = max load in Newton

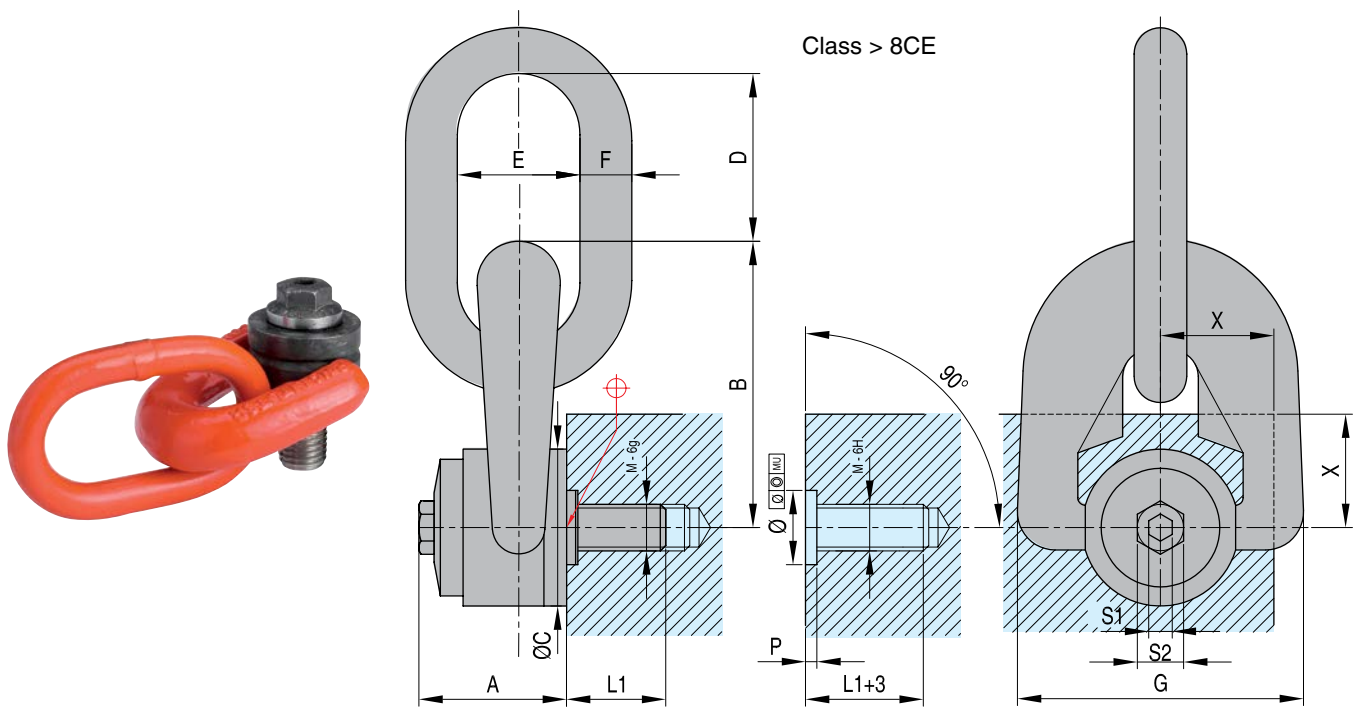
SF = safety factor

KT = chain classification number

TL = recommended tightening torque in NewtonMetre

TSR C

Triple swivel shackle with centering

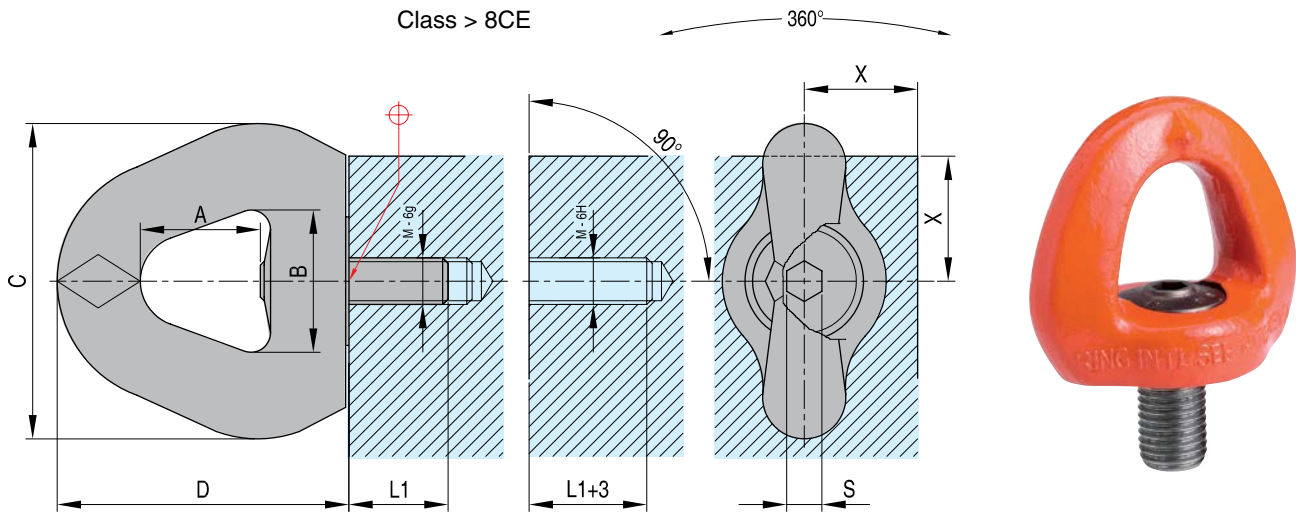


REF	P	S.F.	KT	M/σ	TL/ Nm	L1	X	S1	S2	A	B	C	D	E	F	G	P
TSRCM8	3000	5	4	16 0/+0,25	14	58	16	6	8	33	33	56	30	41	25	10	3 +0,5/+1
TSRCM10	6000		5		17	58	16	10	8	33	33	56	30	41	25	10	
TSRCM12	10000	5	6	20 0/+0,25	21	58	16	15	8	33	33	56	30	41	25	10	3 +0,5/+1
TSRCM14	13000		6		30	23	24	8	20	45	76	45	56	37	14	79	
TSRCM16	16000		7		50	27	24	8	20	45	76	45	56	37	14	79	
TSRCM18	20000	5	7	30 0/+0,30	27	79	20	70	8	45	45	76	45	56	37	14	3 +0,5/+1
TSRCM20	25000		9		30	79	20	100	8	45	45	81	45	56	37	14	
TSRCM22	30000	5	9	30 0/+0,30	33	106	24	120	14	62	62	105	60	80	45	20	4 +0,5/+1
TSRCM24	40000		11		160	36	45	14	24	62	105	60	80	45	20	106	
TSRCM27	50000	5	13	36 0/+0,30	160	36	45	14	24	62	105	60	80	45	20	106	4 +0,5/+1
TSRCM30	63000		14		45	106	24	250	14	62	62	105	60	80	45	20	
TSRCM36	100000	5	18	48 +0,10/+0,50	320	54	54	19	30	81	140	80	111	71	30	148	6 +0,5/+1
TSRCM42	125000		20		63	148	30	400	19	84	84	146	80	111	71	30	
TSRCM48	200000	4	26	64 +0,10/+0,60	600	68	69	19	30	100	178	110	135	90	42	180	8 +0,5/+1
TSRCM56	220000		36		78	190	30	600	19	104	104	184	110	135	90	42	

*Non standard

- One free articulation
- Very low overhang for increased safety
- Automatic realignment of the ring when in traction in 90°
- Large support surface for a very high resistance
- Improved stability with SEB C through centering section
- High tensile

P = max load in Newton
 SF = safety factor
 KT = chain classification number
 TL = recommended tightening torque in NewtonMetre



REF	P	S.F.	KT	M/σ	TL/Nm	L1	X	S	A	B	C	D
SEBM16	16000	5	7	M 16 (x2)	50	27	35	8	38	45	90	78
SEBM20	25000		9	M 20 (x2,5)	100	30						
SEBM24	40000	5	11	M 24 (x3)	160	36	50	14	58	70	134	115
SEBM30	63000		14	M 30 (x3,5)	250	45						
SEBM36	100000	5	18	M 36 (x4)	320	54	70	14	88	94	190	166
SEBM42	125000		20	M 42 (x4,5)	400	63						

***Non-Standard**

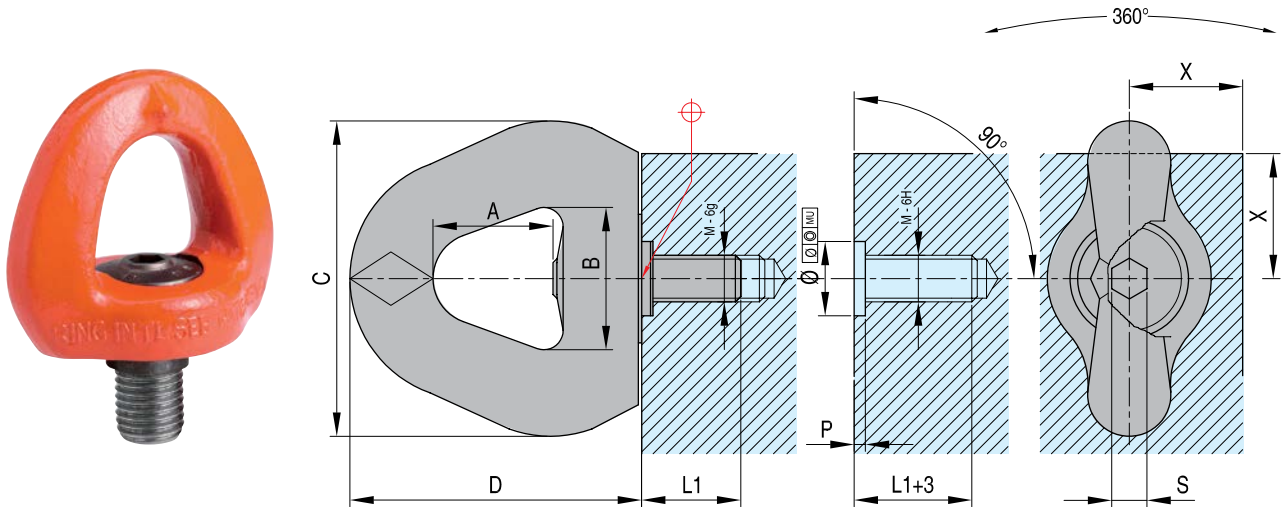
One free articulation
 Very low overhang for increased safety
 Automatic realignment of the ring when in traction in 90°
 Large support surface for a very high resistance
 Improved stability with SEB C through centering section
 High tensile

P = max load in Newton
 SF = safety factor
 KT = chain classification number
 TL = recommended tightening torque in NewtonMetre

SEBC

Swivel eye bolt with centering

Class > 8CE

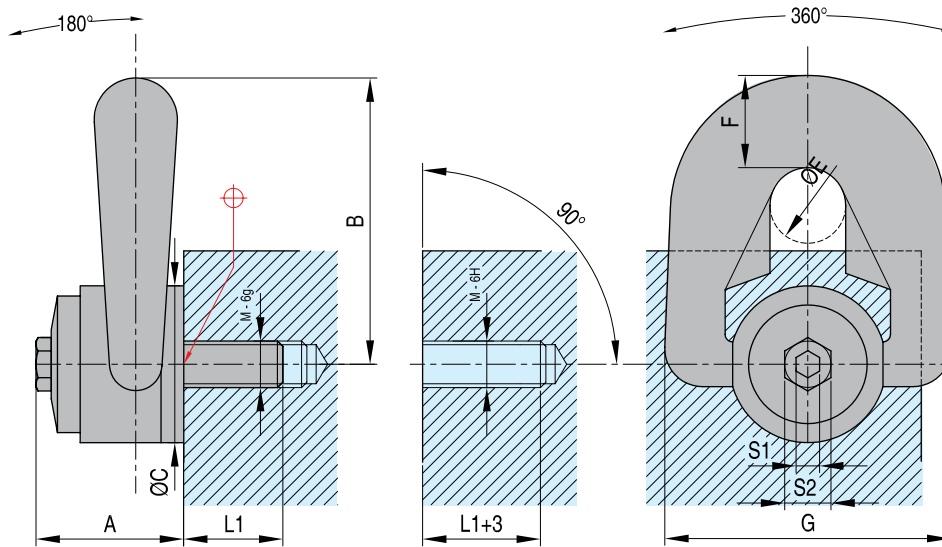


REF	P	S.F.	KT	M/g	TL/Nm	L1	X	S	A	B	C	D	P
SEBCM16	16000	5	7	20 0/+0,25	50	27	35	8	38	45	90	78	3 +0,5/+1
SEBCM20	25000		9	30 0/+0,25	100	30							
SEBCM24	40000	5	11	30 0/+0,30	160	36	50	14	58	70	134	115	4 +0,5/+1
SEBCM30	63000		14	36 0/+0,30	250	45							
SEBCM36	100000	5	18	48 +0,50/+0,10	320	54	70	14	88	94	190	166	6 +0,5/+1
SEBCM42	125000		20	48 +0,50/+0,10	400	63							

One free articulation
 Very low overhang for increased safety
 Automatic realignment of the ring when in traction in 90°
 Large support surface for a very high resistance
 Improved stability with SEB C through centering section
 High tensile

P = max load in Newton
 SF = safety factor
 KT = chain classification number
 TL = recommended tightening torque in NewtonMetre

Class > 8CE



REF	P	S.F.	KT	M/ø	TL/Nm	L1	S1	S2	A	B	C	E	F	G
DSPM8	3000	5	4	M 8 (x1,25)	6	14	8	16	33	56	30	19	19	58
DSPM10	6000		5	M 10 (x1,50)	10	17								
DSPM12	10000		5	M 12 (x1,75)	15	21								
DSPM14*	13000	5	6	M 14 (x2)	30	23	8	20	45	76	45	25	27	79
DSPM16	16000		7	M 16 (x2)	50	27								
DSPM18*	20000		7	M 18 (x2,5)	70	27								
DSPM20	25000	5	7	M 20 (x2,5)	100	30	8	20	45	81	45	25	27	79

*Non standard

Two free articulations
 Very low overhang for improved safety
 Automatic realignment of the ring when in traction 90°
 Large support surface for a very high Resistance
 Two ways of tightening: either by open-ended spanner, or by allen key
 Improved stability with DSR C through centering section

P= max load in Newton

SF = safety factor

KT = chain classification number

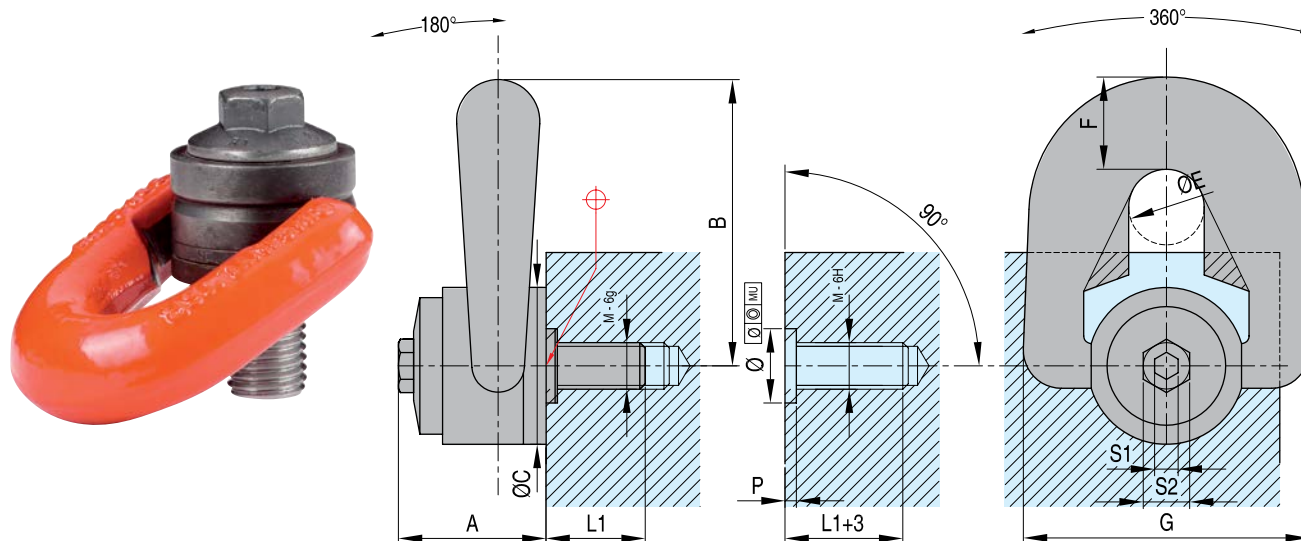
TL = recommended tightening torque in NewtonMetre



DSPC

Double swivel lifting bolt with centering

Class > 8CE



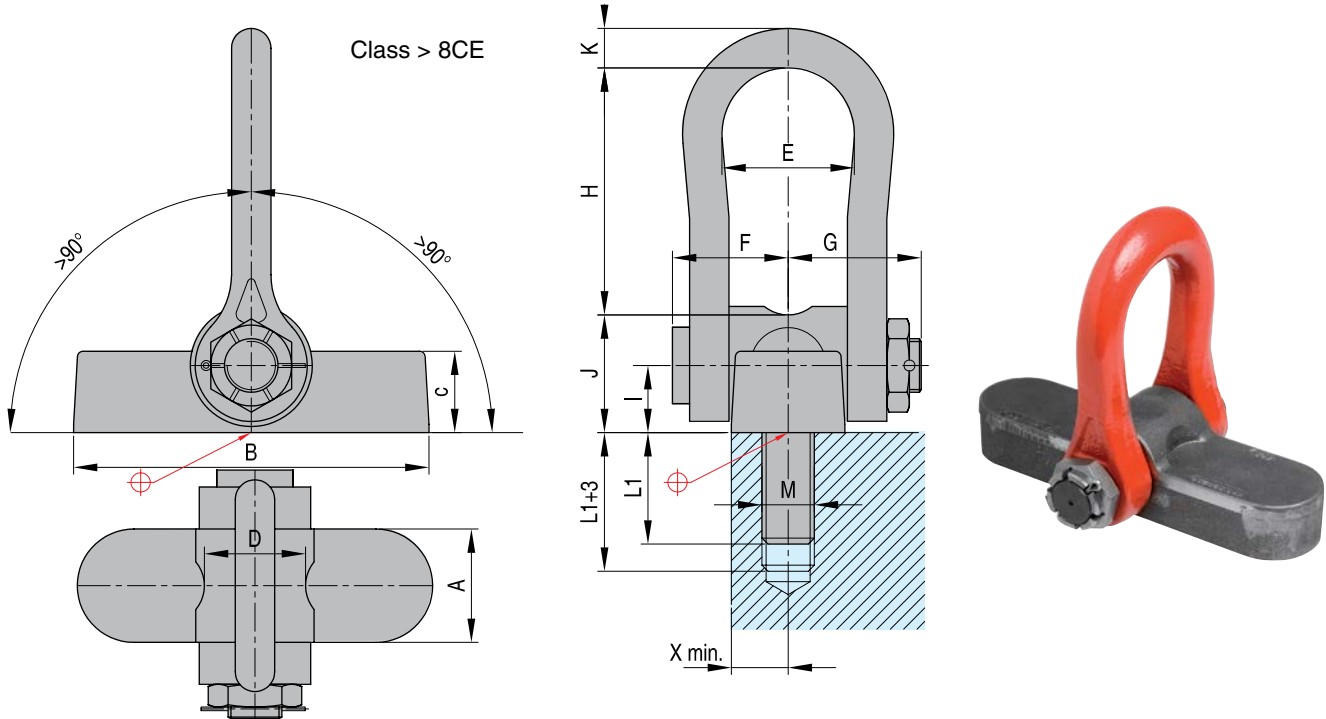
REF	P	S.F.	KT	M/ø	TL/Nm	L1	S1	S2	A	B	C	E	F	G	P
DSPCM8	3000	5	4	16 0/+0,25	6	14	8	16	33	56	30	19	19	58	3 +0,5/1
DSPCM10	6000		5	20 0/+0,25	10	17									
DSPCM12	10000		6	20 0/+0,25	15	21									
DSPCM14	13000	5	6	20 0/+0,25	30	23	8	20	45	76	45	25	27	79	3 +0,5/1
DSPCM16	16000		7	20 0/+0,25	50	27									
DSPCM18	20000		7	30 0/+0,30	70	27									
DSPCM20	25000	5	7	30 0/+0,30	100	30	8	20	45	81	45	25	27	79	3 +0,5/1

Two free articulations
 Very low overhang for improved safety
 Automatic realignment of the ring when in traction 90°
 Large support surface for a very high Resistance
 Two ways of tightening: either by open-ended spanner, or by allen key
 Improved stability with DSR C through centering section

P = max load in Newton
 SF = safety factor
 KT = chain classification number
 TL = recommended tightening torque in NewtonMetre

Central safety shackle for dispose on press

CSS



REF	X	A	B	C	D	E	F	G	H	I	J	K	Kg
CSS	40 (mini)	80	330	50	62	90	88	98	132	38	76	41	17

A compact, lightweight solution for removing the mold from the press

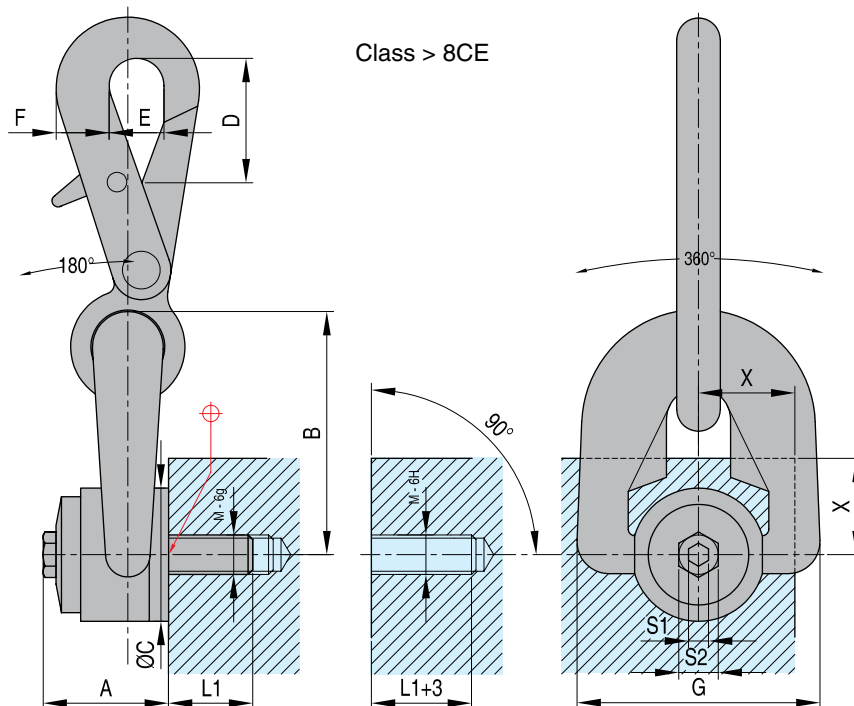
Indicative table for fastening with socket head screws DIN 912-12.9

Head mm	Ø mm	Height mm	* mm	WLL Max. daN	N.m.
M 36	54	36	54	9600	600
M 30	45	30	45	6600	420
M 24	36	24	36	4100	200
M 20	30	20	30	2800	150

* Minimum effective thread length

DSH

Double swivel hook



REF	A	B	C	D	E	F	G	L1	M/σ	TL/Nm	Kg	S1	S2	P	S.F.
DSH M8	33	56	30	44	32	23	58	14	M8 (x1,25)	6	0,8	8	16	0,3	5
DSH M10								17	M10 (x1,50)	10	0,8			0,6	
DSH M12								21	M12 (x1,75)	15	0,8			1,0	
DSH M14*	45	76	45	58	29	29	79	23	M14 (x2)	30	1,9	8	20	1,3	5
DSH M16								27	M16 (x2)	50	2,0			1,6	
DSH M18*								27	M18 (x2,5)	70	2,0			2,0	
DSH M20	45	81	45	58	29	29	79	30	M20 (x2,5)	100	2,0	8	20	2,5	5

P = max load in TO

SF = safety factor

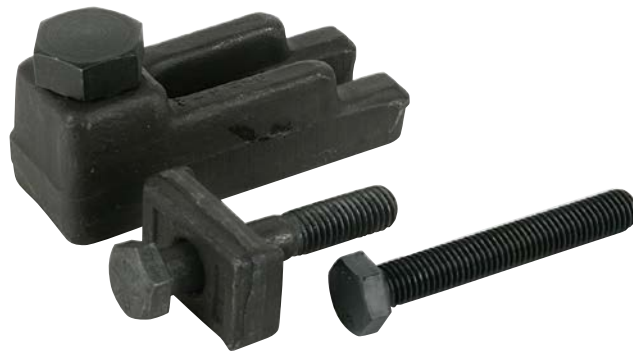
KT = chain classification number

TL = recommended tightening torque in NewtonMetre

Mold Clamps

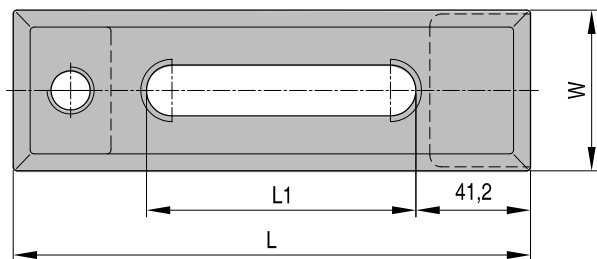
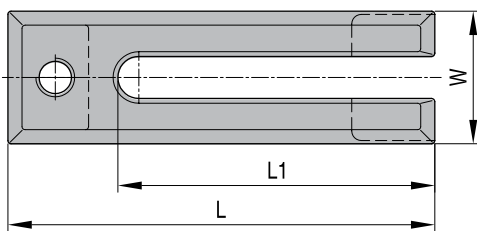
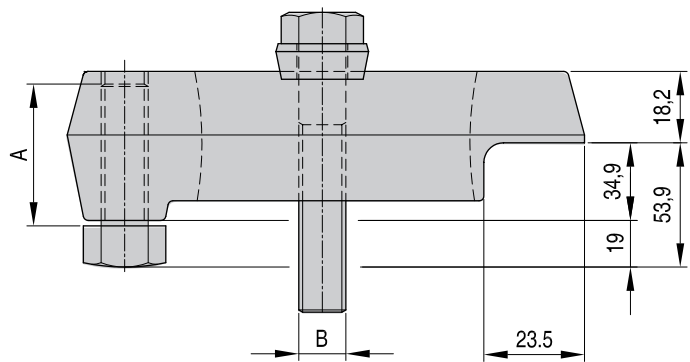
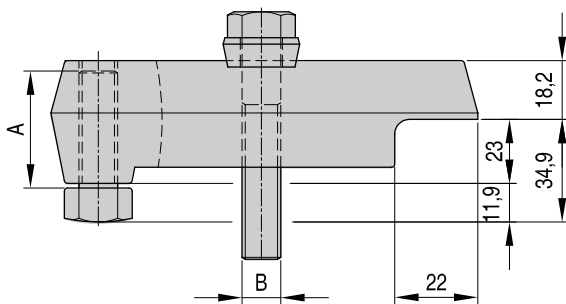
MCA

Mat.: Ck 22/CuSn



MCA 4-4 --> MCA 6-7

MCA 8-95



REF	B (DIN 933)	A	L	L1	W
MCA44	HEX M12x80(DIN933)	38	106	72	41
MCA55	HEX M16x100(DIN933)		132	86	48
MCA57	HEX M16x100(DIN933)		178	127	
MCA65	HEX M16x100(DIN933)		132	86	50
MCA67	HEX M16x100(DIN933)		178	125	
MCA77	HEX M20x110(DIN933)		178	125	
MCA895	HEX M24x120(DIN933)	50	241	135	67

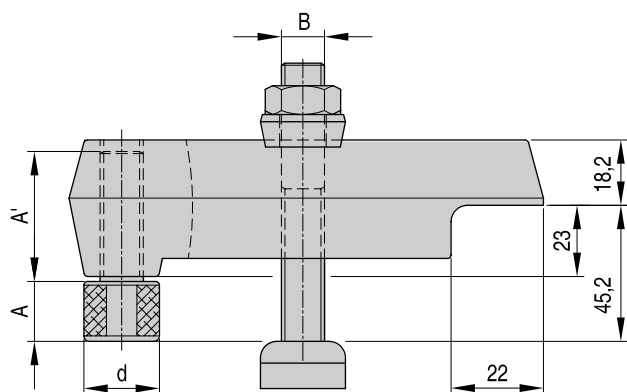
DMCA

Mold Clamps for diecasting

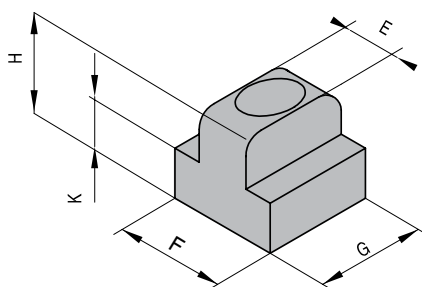
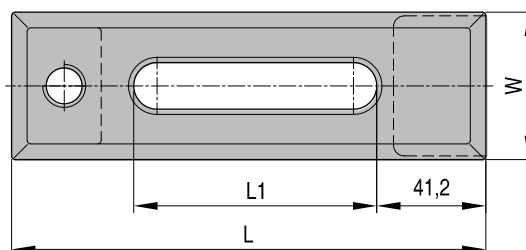
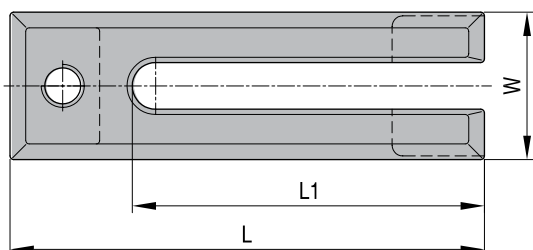
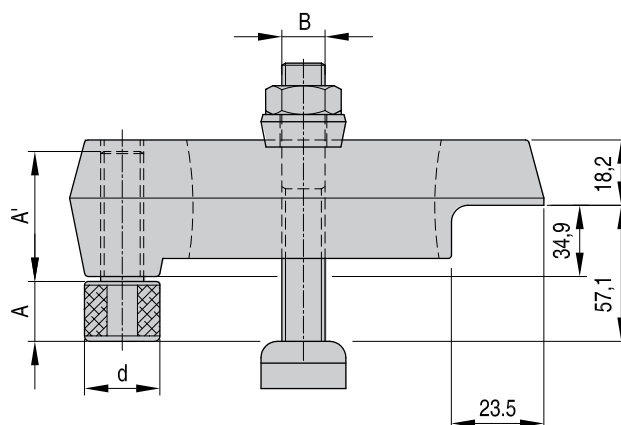
Mat.: Ck 22/CuSn



DMCA 5-5 --> DMCA 6-7



DMCA 8-95



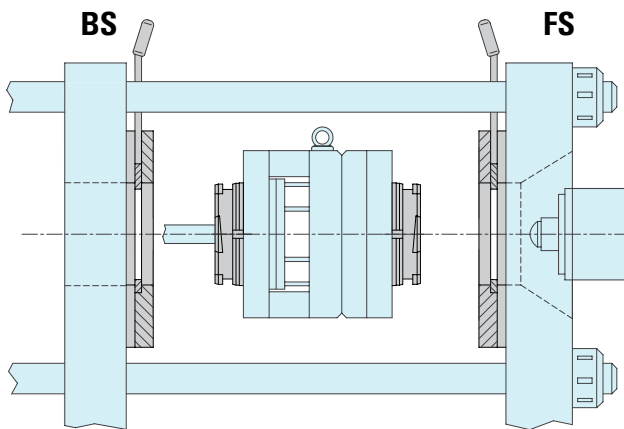
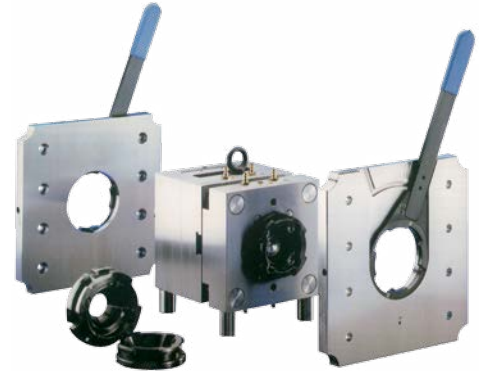
REF	A	A'	B	d	L	L1	W	E	F	G	H	K
DMCA55	15,8	39	5/8"-11 x 4" 1/2	35	132	86	48	15,9	28,6	33,0	16,2	6,4
DMCA57			5/8"-11 x 4" 1/2		178	127						
DMCA65	19,0	39	3/4"-10 x 4" 1/2	38	132	86	51	19,0	33,3	37,6	20,6	13,5
DMCA67			3/4"-10 x 4" 1/2		178	127						
DMCA895	22,2	50	1" x 6	51	241	135	67	25,4	42,9	49,8	26,9	17,5

Quick-action clamping system

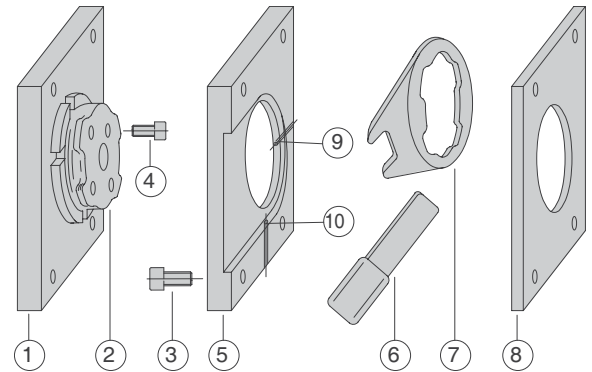
Bakra

Mount your mold on the injection machine, with just one move in few minutes

- Maintenance-free, selflocking bayonet type quick-action clamping system suitable for mold weights up to 1000 kg.
- Multi-purpose application suitable for all horizontal and vertical injection molding machines with 2 or 4 tiebars, as well as barless design up to approx. 1800 kN.
- Quick mold-change without requiring additional tools.
- The system only requires interchanging locating rings on the mold.
- The set also includes compact adapter plates, to be mounted on the machine with thermal insulating sheets and cooling connectors when required.
- Step-by-step refitting of molds and machines possible.
- the wrench must be removed from the mold once it is fixed on the injection machine



Part list



- | | | | |
|-----------------------|-----------------|----------------------------|----------------------------|
| 1 Mold Clamping Plate | 4 SHC-screw | 7 Locking Ring | 9 Retention Pin |
| 2 Locating Ring | 5 Adapter Plate | 8 Thermal Insulating Sheet | 10 Spring Loaded Set screw |
| 3 SHC-screw | 6 Wrench | | |

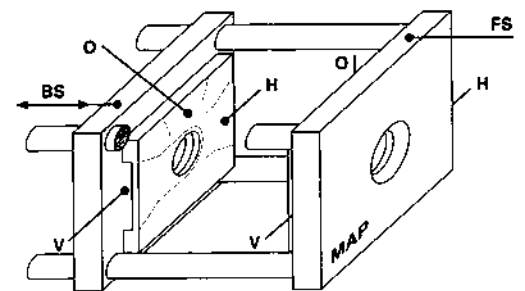
Cost-efficiency comparison for mold-change on a 1000 kN injection molding machine.

	Clamp DIN 6316 and clamping screw	Bakra
No. of mold changes / year	150	150
No. of operators / change	2	1
Hours required / change	2 x (0,5 h (= 30 Min.))	0,083 h (= 5 Min)
Purchase costs / 5-year depreciation	€ 400 (€ 80 / a)	€ 3800 (€ 760 / a)
Wages / year (€ 41 / h person)	€ 6150	€ 512,50
Machine down times / year (€ 51 / h)	€ 3825	€ 637,50
Costs / year	€ 10055	€ 1910
Savings / year		81%

The complete set contains the following items:

- 2 Adapter plates (BS/FS) AD
 - 2 locking rings (BS/FS) SP
 - 1 Wrench SPS
 - 2 Locating rings (BS/FS) ZF
- ZV Centering device and WP insulating plate are on request

The Quick-Clamping System is a special solution, which is designed and machined accordingly to the injection machine where it is meant to work, therefore when you want to request a quotation send an email to DME Special Projects department DMEEU_SpecialProjects@dmeeu.com indicating brand and type of injection machine.

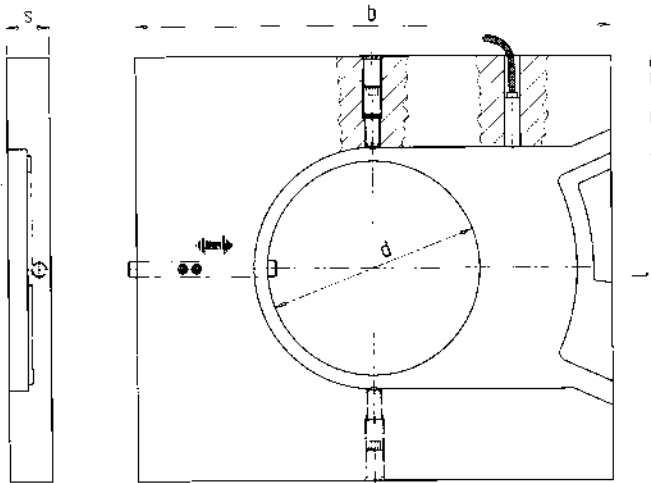


BS = moveable half
FS = fixed half
H = rear *

O = top*
V = front*
* Please specify side of locking system

AD

Adapter plates

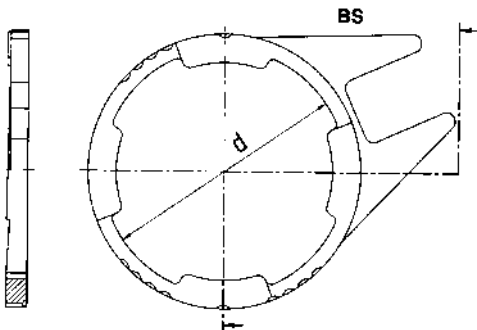


Mat.: 1.2312
BS and FS are mirror-inverted
Mold safety device is available as option.

Diameter d is either 110 mm or 125 mm depending on the diameter of the hole on the clamping plate of the injection machine. If d is 110mm, the thickness s is 22 mm and if the diameter is 125 mm, the thickness s is 27 mm. The dimensions b and l depend on the dimensions of the plates of the injection machine. The corners of the Adapter plates may be machined if necessary, depending on the space available between the tiebars

SP

Locking rings



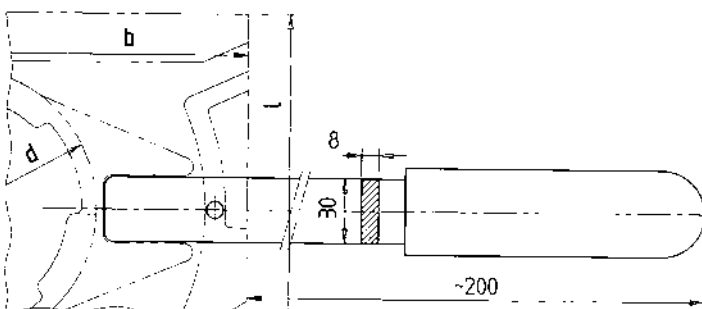
Mat.: 1.2312 ~ 1030 N/mm²
BS and FS are mirror-inverted

REF	d	Type
SP110BS	110	BS*
SP110FS	110	FS*
SP125BS	125	BS*
SP125FS	125	FS*

*BS = moveable half
*FS = fixed half

SPS

Wrench



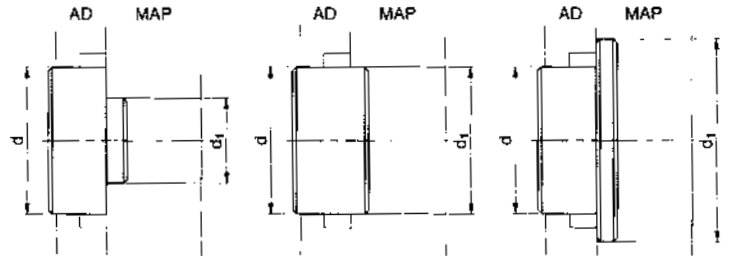
Mat.: St 50
When ordering please specify:
Flange dia., size of adapter plate,
wrench opening, Type of molding machine.

Centering device

ZV

Centering Device
Mat.: 1.1730
MAP = Machine plate

REF	d x d ₁
ZV	110 x 60
ZV	110 x 80
ZV	110 x 90
ZV	110 x 100
ZV	110 x 110
ZV	110 x 125
ZV	110 x 160
ZV	125 x 60
ZV	125 x 80
ZV	125 x 90
ZV	125 x 100
ZV	125 x 110
ZV	125 x 125
ZV	125 x 160
ZV	125 x 175

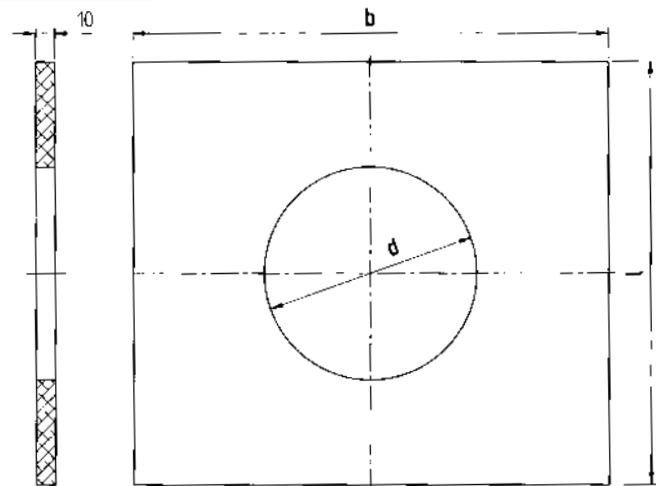


Thermal Insulating sheets

WP

Thermal conductivity λ : 0,2 W/mK
T max: 200°C
Compressive strength (20°C): 600 N/mm²

Screw holes and recesses for tiebars will be provided according to your drawing.



REF	d	l x b
WP	110	218 x 246
WP	110	246 x 246
WP	110	246 x 296
WP	110	265 x 396
WP	110	280 x 400
WP	110	296 x 296
WP	110	296 x 346
WP	110	346 x 346
WP	110	346 x 396
WP	110	396 x 396
WP	110	396 x 646
WP	110	400 x 450
WP	110	410 x 410

REF	d	l x b
WP	110	410 x 446
WP	110	446 x 446
WP	110	496 x 496
WP	110	496 x 546
WP	110	520 x 520
WP	110	530 x 530
WP	110	546 x 596
WP	110	580 x 580
WP	110	596 x 596
WP	110	596 x 646
WP	110	646 x 646
WP	110	646 x 696
WP	110	696 x 696

REF	d	l x b
WP	125	218 x 246
WP	125	246 x 246
WP	125	246 x 296
WP	125	265 x 396
WP	125	280 x 400
WP	125	296 x 296
WP	125	296 x 346
WP	125	346 x 346
WP	125	346 x 396
WP	125	396 x 396
WP	125	396 x 646
WP	125	400 x 450
WP	125	410 x 410

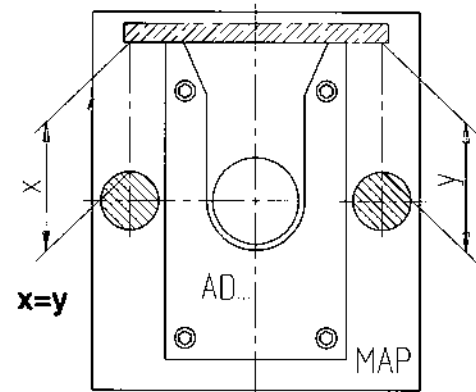
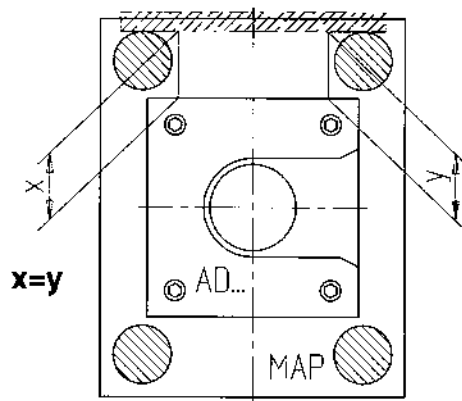
REF	d	l x b
WP	125	410 x 446
WP	125	446 x 446
WP	125	496 x 496
WP	125	496 x 546
WP	125	520 x 520
WP	125	530 x 530
WP	125	546 x 596
WP	125	580 x 580
WP	125	596 x 596
WP	125	596 x 646
WP	125	646 x 646
WP	125	646 x 696
WP	125	696 x 696

ZF...

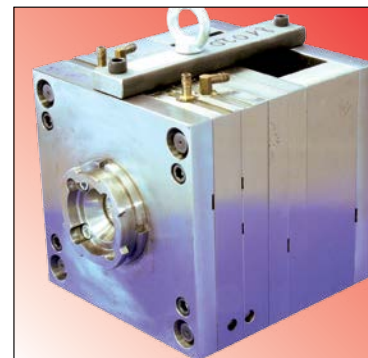
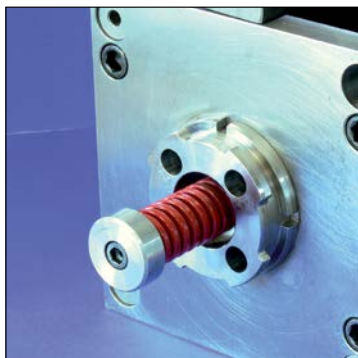
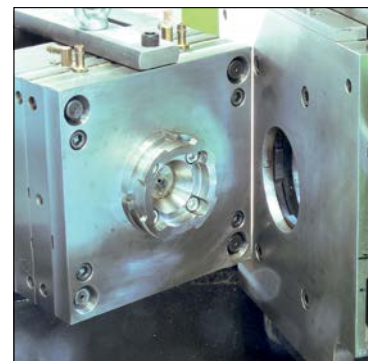
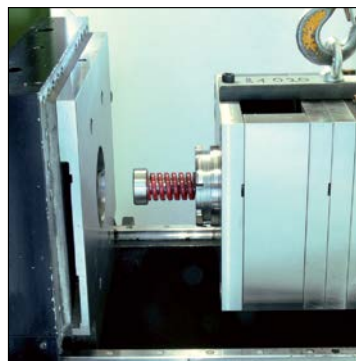
Locating rings

Mat.: 1.2312 ~ 1030 N/mm²

ZF 110		ZF 125	
Moveable half (BS)	Fixed half (FS)	Moveable half (BS)	Fixed half (FS)
<p>ZF110BS3</p> <p>4 x Ø 10</p>	<p>ZF110FS3</p> <p>4 x Ø 10</p>	<p>ZF125BS1</p> <p>4 x Ø 12</p>	<p>ZF125FS1</p> <p>4 x Ø 12</p>
<p>ZF110BS4</p> <p>4 x Ø 10</p>	<p>ZF110FS4</p>	<p>ZF125BS2</p>	<p>ZF125FS2</p>
<p>ZF110BS5</p>	<p>ZF110FS6</p> <p>6 x Ø 8</p>	<p>ZF125BS3</p> <p>4 x Ø 12</p>	<p>ZF125FS3</p> <p>4 x Ø 12</p>
<p>ZF110BS7</p> <p>6 x Ø 8</p>	<p>ZF110FS8</p> <p>4 x Ø 10</p>	<p>ZF125BS4</p>	<p>ZF125FS4</p>
<p>ZF110BS8</p> <p>6 x Ø 8</p>	<p>ZF110FS9</p> <p>4 x Ø 10</p>	<p>ZF125BS5</p> <p>6 x Ø 10</p>	<p>ZF125FS5</p> <p>6 x Ø 10</p>
<p>ZF110BS10</p> <p>6 x Ø 8 / 4 x Ø 10,5</p>	<p>ZF110FS10</p> <p>6 x Ø 8 / 4 x Ø 11</p>	<p>ZF125BS7</p> <p>8 x M10 x 20</p>	<p>ZF125FS7</p> <p>6 x M10 x 20</p>
<p>ZF110BS16</p> <p>4 x Ø 10</p>	<p>ZF110FS11</p> <p>6 x Ø 8</p>		
	<p>ZF110FS16</p>		



1. Mount mold-specific locating rings ZF on the mold.
2. Open injection molding machine, move back injection unit and machine ejector system.
3. Mount thermal insulating sheets WP (if available) onto the adapter plates AD using small SHC-screws.
4. Push back retention pins fixed to the adapter plates.
5. Insert centering device ZV into centering hole Dia. 110 mm or 125 mm of the adapter plates.
6. Position these subgroups according to the markings FS or BS onto the machine plates and mount them with SHC-screws. Don't screw in completely so that adjustment is still possible.
7. Align horizontal position of adapter plates according to sketch above and tighten screws.
8. Remove ZV, if necessary make thread in ZV.
9. In case mold set-up in horizontal direction is required, retention pins located in the adapter plates have to be pushed back.
10. For mold set-up into the molding machine proceed as usual. With mold and machine in closed position, mold must be interlocked at the fixed and moveable half using wrench. Remove wrench from the adapter plate.



OPTIM

Service table for molds

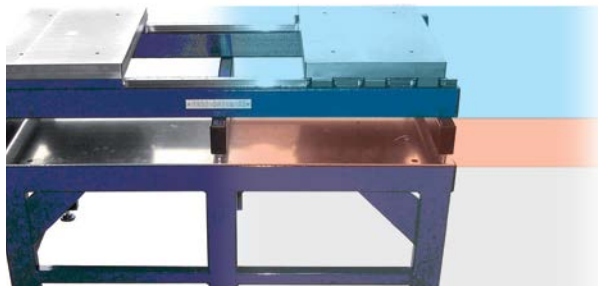


This new generation of platform is specifically conceived for:

- Opening and closing of moulds
- Access to each part of the mould for maintenance
- 90° Rotation of each mould-part for direct access to the tool
- 3 sizes: 1500 kg / 2000 kg / 3000 kg
- Optional base-platform to raise total height to 850 mm

Dimensions:

Standard Table: L 1200mm x W 580 mm x H 275 mm
 Pivot-piece: L 350 mm x W 550 mm



Optim Table

Aluminium Tool Plate

Base Platform / Total Height 850 mm

REF	Item description
OPTIM2515	Optim Table max 1500 kg
OPTIM2520	Optim Table max 2000 kg
OPTIM2530	Optim Table max 3000 kg
OPTIM2515-850	Optim 2515 + Base Platform
OPTIM2515-850AL	Optim 2515 + Base Platform + AL Toolplate
OPTIM2520-850	Optim 2520 + Base Platform
OPTIM2520-850AL	Optim 2520 + Base Platform + AL Toolplate
OPTIM2530-850	Optim 2530 + Base Platform
OPTIM2530-850AL	Optim 2530 + Base Platform + AL Toolplate
OPTIM850	Only Base Platform
OPTIM850AL	Only Base Platform + AL Toolplate

Wax gun

FA 89-1

Specification	FA 89-1
3,0	3,0
Volt	220 V
8,0	5,0
Power	240 W
Volume Wax	600 cm ²
Operating pressure for air connection	6 - 8 bar
Ø Sprue Nozzle	3 mm
Empty weight	3,5 kg



REF
FA891

Wax package

FA 89-W



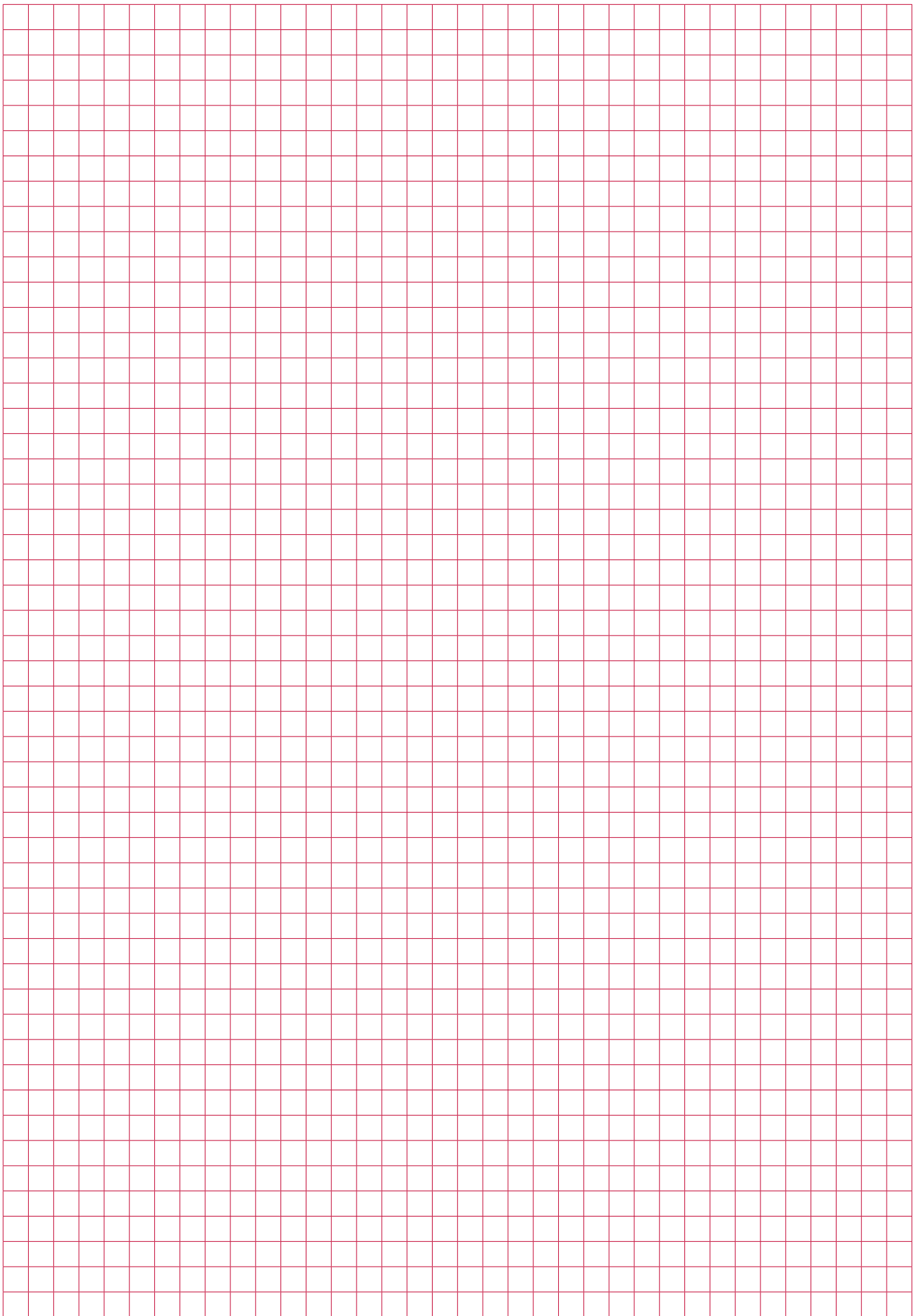
REF	Weight
FA89W	5 kg

Stand for wax gun

FA 89-S



REF
FA89S





SHOP SUPPLIES



Shop Supplies

Hammers 82
Pry Bars..... 83
Screw Keys 84
Precision gauge steel..... 85

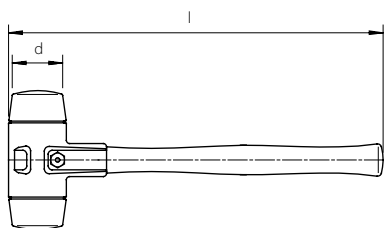


Shop Supplies



HA 13

Simplex hammers



Description

- Insert combination Nylon White / Soft metal
- Noise-dampening
- Vibration-reducing
- High resistance to breakage
- Extremely durable
- Integrated handle-protection sleeve
- 2 different inserts allow to use the same hammer on different materials
- Nylon insert is hard, wear resistant, oil and grease resistant, doesn't chip even when hitting edges,
- Soft metal insert is hard, heat resistant, can be use for very hard strikes without damaging the workpiece

Replacement:

- Tightened with just one screw
- All wear parts are easily replaceable
- See spare parts below

Application:

- Mould construction
- Assembly and repair work

REF	d	l	G N	Interchangeable inserts
HA1330030	30	262	3,50	Nylon + Soft metal
HA1330050	50	312	11,30	Nylon + Soft metal
HA1330080	80	398	31,50	Nylon + Soft metal

HA 13 ... E

Spare parts for Simplex hammers – Inserts



REF	d	Material
HA1330E030	30	Nylon + Soft metal
HA1330E050	50	Nylon + Soft metal
HA1330E080	80	Nylon + Soft metal

HA 1300 ST

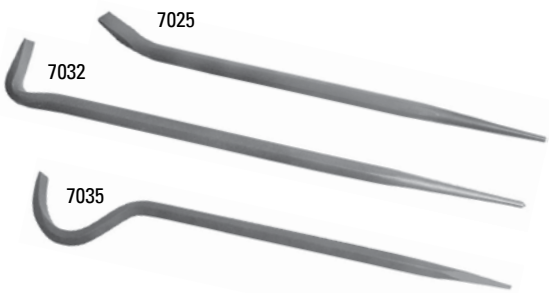
Spare parts for Simplex hammers – Handles

REF	for d	Material
HA1300ST030	30	Wood
HA1300ST050	50	Wood
HA1300ST080	80	Wood

Pry bar

70

- Heat-treated to Rc 52-54
 - Heavy-duty forged steel
 - Rust-resistant black oxide
 - Preferred by many molders for their toughness and balance
 - Smooth finish tapers
 - In-stock at low prices
 - Same brand as sold by others... only we charge less!
 - Made in U.S.A.
- For Pry Bars sold separately reference items below
Complete Kit contains one of each tool - Model Number PBK999



REF		Length		
7025	Angle Head Bar	20"	5/8" Hex	Stock Wt. 1 lb. 6 oz.
7032	Rolling Head Bar	18"	5/8" Hex	Stock Wt. 1 lb. 9 oz.
7035	Radius Head Bar	18"	5/8" Hex	Stock Wt. 1 lb. 4 oz.

Pry bar

WZ71470

This forged steel pry bar, with a black oxide finish, is a practical tool for use in separating punch and die holders without damage to the die.
With its soft tempered brass shoe and bronze alloy tip, the pry bar easily separates the die without harming surfaces.
Both shoe and tip are easily removable and replaceable.
Overall length is 46 cm.



REF
WZ71470

Screwdriver set

SCR 5

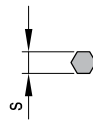
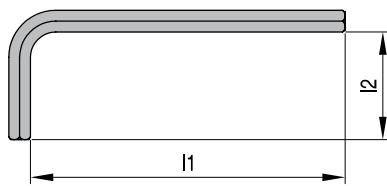
- Set of 5 screw drivers
- Custom made for the complete DME range of date stamps
- Blades made of chrome-vanadium-molybdenum-steel fully hardened and chromium plated for precision and long life
- Ergonomic handle design
- Color coded pivot cap
- Extremely precise fit of the tip



2x	1,1 x 0,20 x 60		Ø 2,6 Ø3
1x	1,6 x 0,15 x 60		Ø4
1x	2,3 x 0,20 x 60		Ø5 Ø6
1x	3,0 x 0,30 x 60		Ø8

SE620

Hexagon socket screw keys-chrome plated



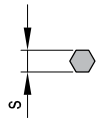
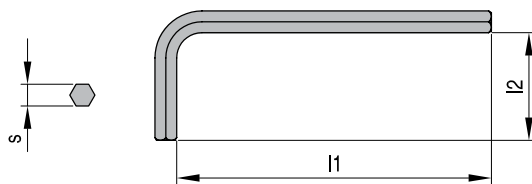
Mat.: 50 CrV4 - DIN 911



REF x s	s	l1	l2	DIN 912	DIN 913-915	DIN 7991
SE62015	1,5	45	14	M1,6-M2	M3	
SE62002	2,0	50	16	M2,5	M4	
SE62025	2,5	56	18	M3	M5	M3
SE62003	3,0	63	20	M4	M6	M5
SE62004	4,0	70	25	M5	M8	M6
SE62005	5,0	80	28	M6	M10	M8
SE62006	6,0	90	32	M8	M12-M14	M10
SE62008	8,0	100	36	M10	M16	M12
SE62010	10,0	112	40	M12	M18-M20	M14-M16
SE62012	12,0	125	45	M14	M22-M24	M18-M20
SE62014	14,0	140	55	M16-M18		M22-M20
SE62017	17,0	160	63	M20-M22		
SE62019	19,0	180	70	M24-M27		
SE62022	22,0	200	80	M30		

SE630

Extra long hexagon socket screw keys-chrome plated



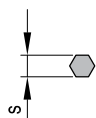
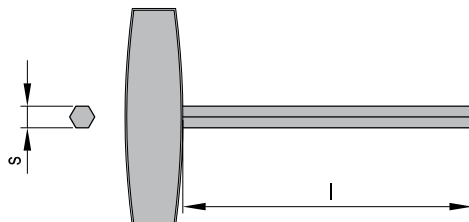
Mat.: 50 CrV4 - DIN 911



REF x s	s	l1	l2	DIN 912	DIN 913-915	DIN 7991
SE63002	2	100	16	M2,5	M4	
SE63003	3	126	20	M4	M6	M5
SE63004	4	140	25	M5	M8	M6
SE63005	5	160	28	M6	M10	M8
SE63006	6	180	32	M8	M12-M14	M10
SE63008	8	200	36	M10	M16	M12
SE63010	10	224	40	M12	M18-M20	M14-M16
SE63012	12	250	45	M14	M22-M24	M18-M20
SE63014	14	280	55	M16-M18		M22-M24

SE640

Hexagon socket screw keys with T-handle



Mat.: 50 CrV4 - DIN 911

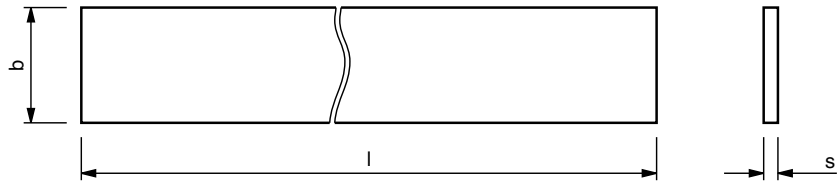


REF x s	s	l
SE64003	3	100
SE64004	4	100
SE64005	5	100
SE64006	6	100
SE64008	8	100

Precision gauge steel

LB 2240

Mat.: 1.1274
 l = 1000 mm
 b = 12,7 mm
 σ zul. = Tensile strength



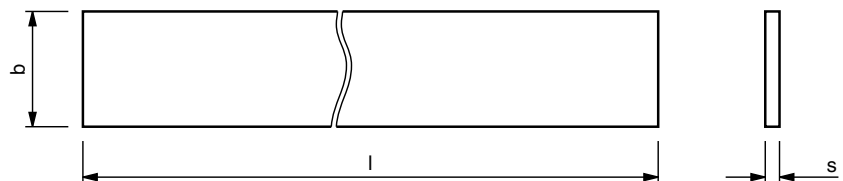
REF	s	Tol. s	σ zul. N/mm ²
LB22400011271	0,01	0,002	2000-2200
LB22400021271	0,02	0,002	2000-2200
LB22400031271	0,03	0,002	2000-2200
LB22400041271	0,04	0,003	2000-2200
LB22400051271	0,05	0,003	2000-2200
LB22400061271	0,06	0,003	2000-2200
LB22400071271	0,07	0,004	2000-2200
LB22400081271	0,08	0,004	2000-2200
LB22400091271	0,09	0,004	2000-2200
LB22400101271	0,10	0,004	2000-2200
LB22400121271	0,12	0,004	2000-2200
LB22400151271	0,15	0,005	2000-2200
LB22400181271	0,18	0,005	2000-2200
LB22400201271	0,20	0,006	1800-2000
LB22400251271	0,25	0,007	1800-2000
LB22400301271	0,30	0,007	1800-2000
LB22400351271	0,35	0,008	1800-2000
LB22400401271	0,40	0,009	1600-1800
LB22400451271	0,45	0,009	1600-1800
LB22400501271	0,50	0,010	1600-1800

REF	s	Tol. s	σ zul. N/mm ²
LB22400551271	0,55	0,010	1600-1800
LB22400601271	0,60	0,010	1600-1800
LB22400651271	0,65	0,012	1400-1600
LB22400701271	0,70	0,012	1400-1600
LB22400751271	0,75	0,012	1400-1600
LB22400801271	0,80	0,013	1400-1600
LB22400851271	0,85	0,013	1400-1600
LB22400901271	0,90	0,013	1400-1600
LB22400951271	0,95	0,013	1400-1600
LB22401001271	1,00	0,013	1400-1600
LB22401101271	1,10	0,017	1400-1600
LB22401201271	1,20	0,017	1400-1600
LB22401301271	1,30	0,020	1400-1600
LB22401401271	1,40	0,020	1400-1600
LB22401501271	1,50	0,020	1400-1600
LB22401601271	1,60	0,023	1400-1600
LB22401701271	1,70	0,023	1400-1600
LB22401801271	1,80	0,023	1400-1600
LB22401901271	1,90	0,023	1400-1600
LB22402001271	2,00	0,035	1400-1600

Precision gauge steel

LB 2250

Mat.: 1.1274
 l = 5000 mm
 b = 12,7 mm
 σ zul. = Tensile strength

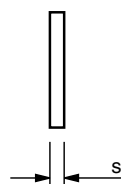
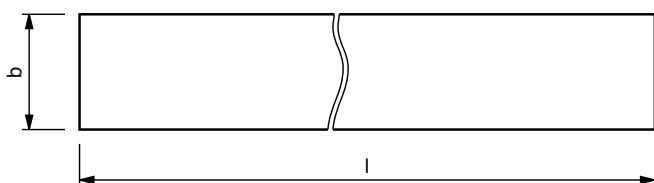


REF	s	Tol. s	σ zul. N/mm ²
LB22500011275	0,01	0,002	2000-2200
LB22500021275	0,02	0,002	2000-2200
LB22500031275	0,03	0,002	2000-2200
LB22500041275	0,04	0,003	2000-2200
LB22500051275	0,05	0,003	2000-2200
LB22500061275	0,06	0,003	2000-2200
LB22500071275	0,07	0,004	2000-2200
LB22500081275	0,08	0,004	2000-2200
LB22500091275	0,09	0,004	2000-2200
LB22500101275	0,10	0,004	2000-2200
LB22500121275	0,12	0,004	2000-2200
LB22500151275	0,15	0,005	2000-2200
LB22500181275	0,18	0,005	2000-2200
LB22500201275	0,20	0,006	1800-2000
LB22500251275	0,25	0,007	1800-2000
LB22500301275	0,30	0,007	1800-2000
LB22500351275	0,35	0,008	1800-2000
LB22500401275	0,40	0,009	1600-1800
LB22500451275	0,45	0,009	1600-1800
LB22500501275	0,50	0,010	1600-1800

REF	s	Tol. s	σ zul. N/mm ²
LB22500551275	0,55	0,010	1600-1800
LB22500601275	0,60	0,010	1600-1800
LB22500651275	0,65	0,012	1400-1600
LB22500701275	0,70	0,012	1400-1600
LB22500751275	0,75	0,012	1400-1600
LB22500801275	0,80	0,013	1400-1600
LB22500851275	0,85	0,013	1400-1600
LB22500901275	0,90	0,013	1400-1600
LB22500951275	0,95	0,013	1400-1600
LB22501001275	1,00	0,013	1400-1600
LB22501101275	1,10	0,017	1400-1600
LB22501201275	1,20	0,017	1400-1600
LB22501301275	1,30	0,020	1400-1600
LB22501401275	1,40	0,020	1400-1600
LB22501501275	1,50	0,020	1400-1600
LB22501601275	1,60	0,023	1400-1600
LB22501701275	1,70	0,023	1400-1600
LB22501801275	1,80	0,023	1400-1600
LB22501901275	1,90	0,023	1400-1600
LB22502001275	2,00	0,035	1400-1600

LB 2260

Precision gauge steel



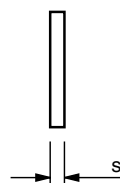
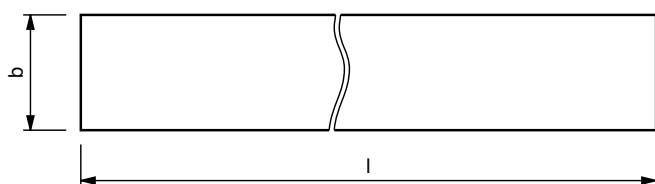
Mat.: 1.1274
 l = 5000 mm
 b = 50 mm
 σ zul. = Tensile strength

REF	s	Tol. s	σ zul. N/mm ²
LB22600035005	0,03	0,002	2000-2200
LB22600045005	0,04	0,003	2000-2200
LB22600055005	0,05	0,003	2000-2200
LB22600065005	0,06	0,003	2000-2200
LB22600075005	0,07	0,004	2000-2200
LB22600085005	0,08	0,004	2000-2200
LB22600095005	0,09	0,004	2000-2200
LB22600105005	0,10	0,004	2000-2200
LB22600125005	0,12	0,004	2000-2200
LB22600155005	0,15	0,005	2000-2200
LB22600185005	0,18	0,005	2000-2200
LB22600205005	0,20	0,006	1800-2000

REF	s	Tol. s	σ zul. N/mm ²
LB22600255005	0,25	0,007	1800-2000
LB22600305005	0,30	0,007	1800-2000
LB22600355005	0,35	0,008	1800-2000
LB22600405005	0,40	0,009	1600-1800
LB22600455005	0,45	0,009	1600-1800
LB22600505005	0,50	0,010	1600-1800
LB22600605005	0,60	0,010	1600-1800
LB22600705005	0,70	0,012	1400-1600
LB22600805005	0,80	0,013	1400-1600
LB22600905005	0,90	0,013	1400-1600
LB22601005005	1,00	0,013	1400-1600

LB 2270

Calibrated shimsteel



Mat.: 1.1274
 Mat. *): 1.4310
 l = 300 mm
 b = 50 mm
 σ zul. = Tensile strength

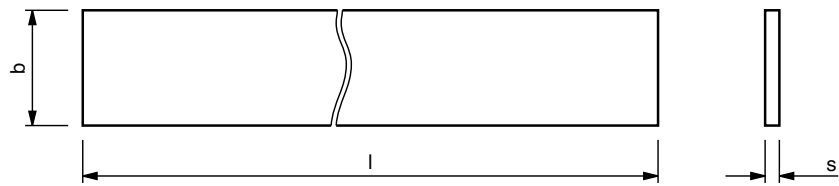
REF	s	Tol. s	σ zul. N/mm ²	
LB2270001050300	0,01*	0,002	2000-2200	10
LB2270002050300	0,02*	0,002	2000-2200	10
LB2270003050300	0,03	0,002	2000-2200	10
LB2270004050300	0,04	0,003	2000-2200	10
LB2270005050300	0,05	0,003	2000-2200	10
LB2270006050300	0,06	0,003	2000-2200	10
LB2270007050300	0,07	0,004	2000-2200	10
LB2270008050300	0,08	0,004	2000-2200	10
LB2270009050300	0,09	0,004	2000-2200	10
LB2270010050300	0,10	0,004	2000-2200	10
LB2270015050300	0,15	0,005	2000-2200	10

REF	s	Tol. s	σ zul. N/mm ²	
LB2270020050300	0,20	0,006	1800-2000	10
LB2270025050300	0,25	0,007	1800-2000	10
LB2270030050300	0,30	0,007	1800-2000	10
LB2270040050300	0,40	0,009	1600-1800	10
LB2270050050300	0,50	0,010	1600-1800	10
LB2270060050300	0,60	0,010	1600-1800	10
LB2270070050300	0,70	0,012	1400-1600	10
LB2270080050300	0,80	0,013	1400-1600	10
LB2270090050300	0,90	0,013	1400-1600	10
LB2270100050300	1,00	0,013	1400-1600	10

Calibrated shimsteel

LB 2280

Mat.: 1.4310
 l = 500 mm
 b = 100 mm
 $\sigma_{zul.}$ = Tensile strength



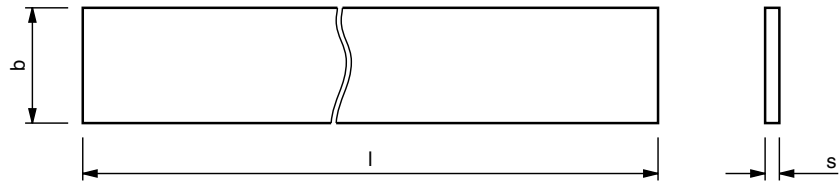
REF	s	Tol. s	$\sigma_{zul.}$ N/mm ²	
LB2280002100500	0,02	0,002	2000-2200	5
LB2280005100500	0,05	0,003	1850-2100	5
LB2280010100500	0,10	0,004	1600-1800	5
LB2280015100500	0,15	0,005	1600-1800	5
LB2280020100500	0,20	0,006	1600-1800	5
LB2280025100500	0,25	0,007	1600-1800	5
LB2280030100500	0,30	0,007	1600-1800	5
LB2280035100500	0,35	0,008	1600-1800	5
LB2280040100500	0,40	0,009	1600-1800	5
LB2280045100500	0,45	0,009	1600-1800	5
LB2280050100500	0,50	0,010	1600-1800	5

REF	s	Tol. s	$\sigma_{zul.}$ N/mm ²	
LB2280055100500	0,55	0,010	1600-1800	5
LB2280060100500	0,60	0,010	1600-1800	5
LB2280065100500	0,65	0,012	1600-1800	5
LB2280070100500	0,70	0,012	1600-1800	5
LB2280075100500	0,75	0,012	1600-1800	5
LB2280080100500	0,80	0,013	1600-1800	5
LB2280085100500	0,85	0,013	1600-1800	5
LB2280090100500	0,90	0,013	1600-1800	5
LB2280095100500	0,95	0,013	1600-1800	5
LB2280100100500	1,00	0,013	1600-1800	5
LB2280150100500	1,50	0,013	1600-1800	5

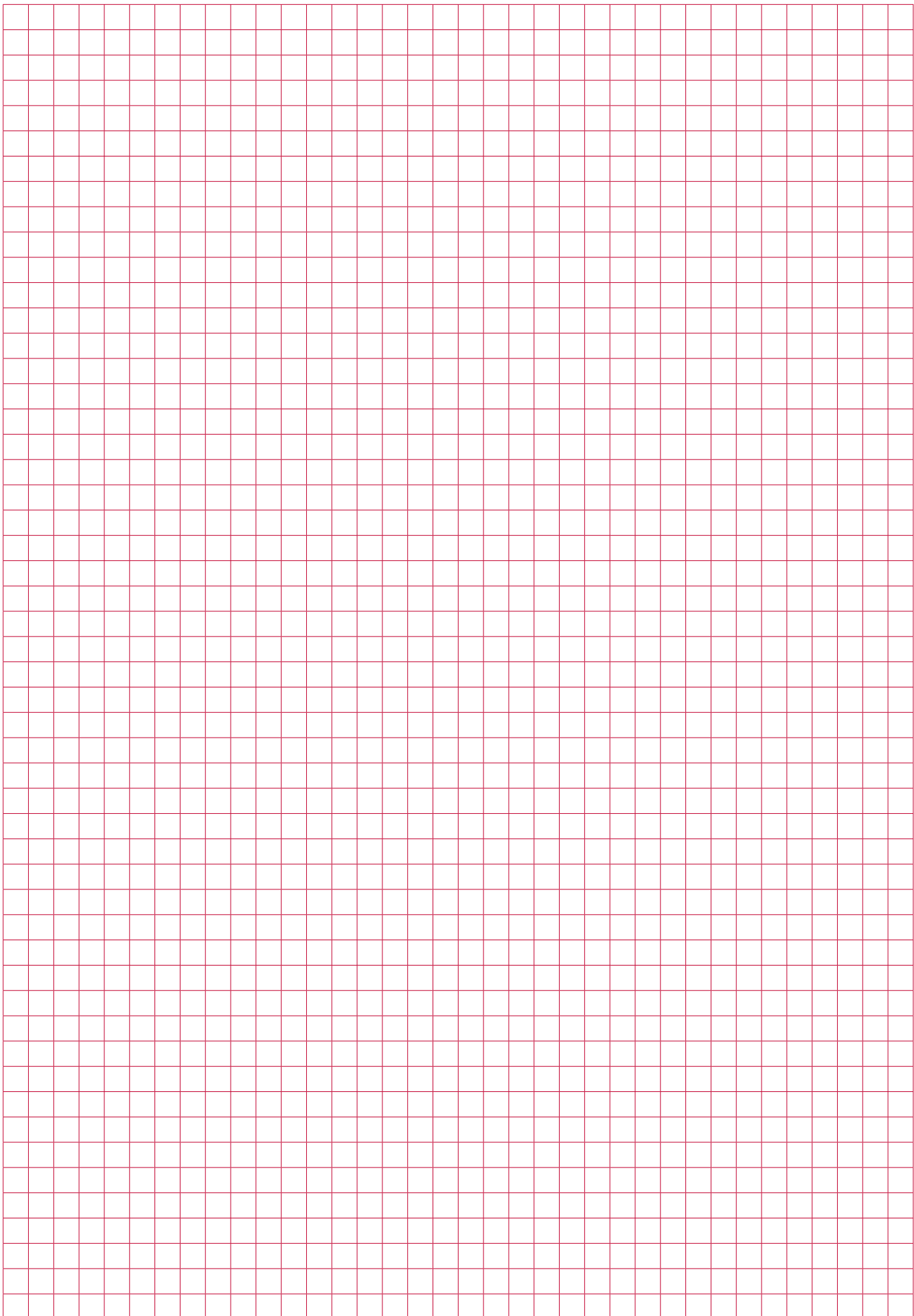
Assorted packs of calibrated shimsteel

LB 2290

Mat.: 1.4310
 l = 500 mm
 b = 100 mm
 $\sigma_{zul.}$ = Tensile strength



REF	Typ(e)	Sizes	Sheets	Contents: 1 Sheet	Mat.
LB2290050300	50/1	50 x 300	25	0,01 - 1,00 mm	1.1274
LB2290100500	100/1	100 x 500	9	0,02 / 0,05 / 0,10 / 0,15 / 0,20 / 0,30 / 0,40 / 0,50 / 1,00 mm	1.4310





COOLING PRODUCTS



DME Standard - Jiffy-Tite Connectors

Cooling Items	94
Couplings	102

DME Push-to-Lock

Push-to-Lock™	110
Spare Parts	113

Euro Series

Couplings	122
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Euro Push-to-Lock

Push-to-Lock™	128
Safety Couplings	130

Accessories

Nipples	134
Hoses	138
Clamps	139
Baffles	143
Cascade Water Junctions	150
Cooling Cores	154
Heat Transfer Rods	155
Accessories	160
O-Rings	162

Cooling Manifold

Cooling Manifold	166
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Technical Data

Technical Data	170
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U100 Series

U100.06	174
U100.08	176
U100.12	187
U100 Series	196

U101 Series

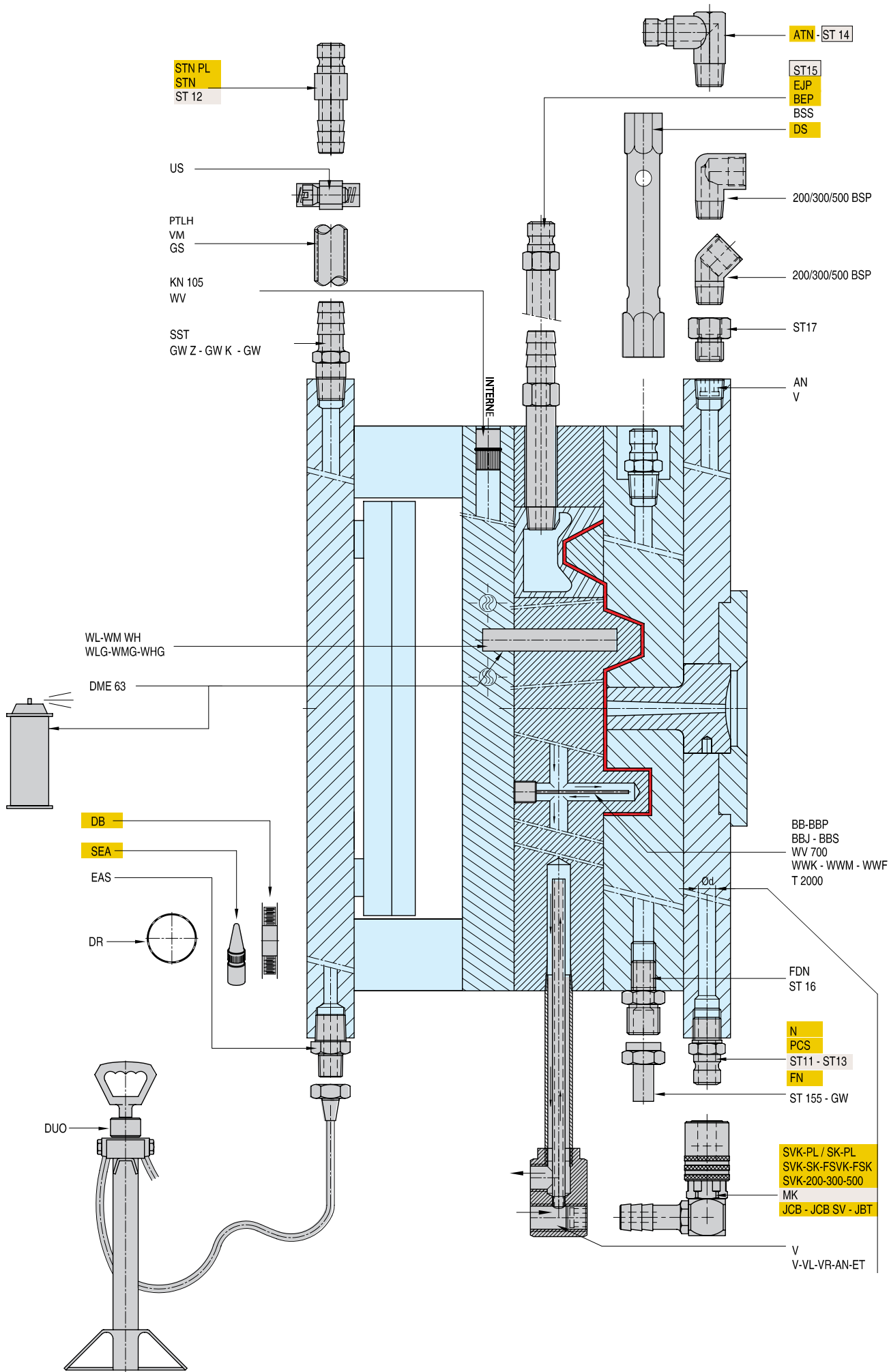
U101 Series	200
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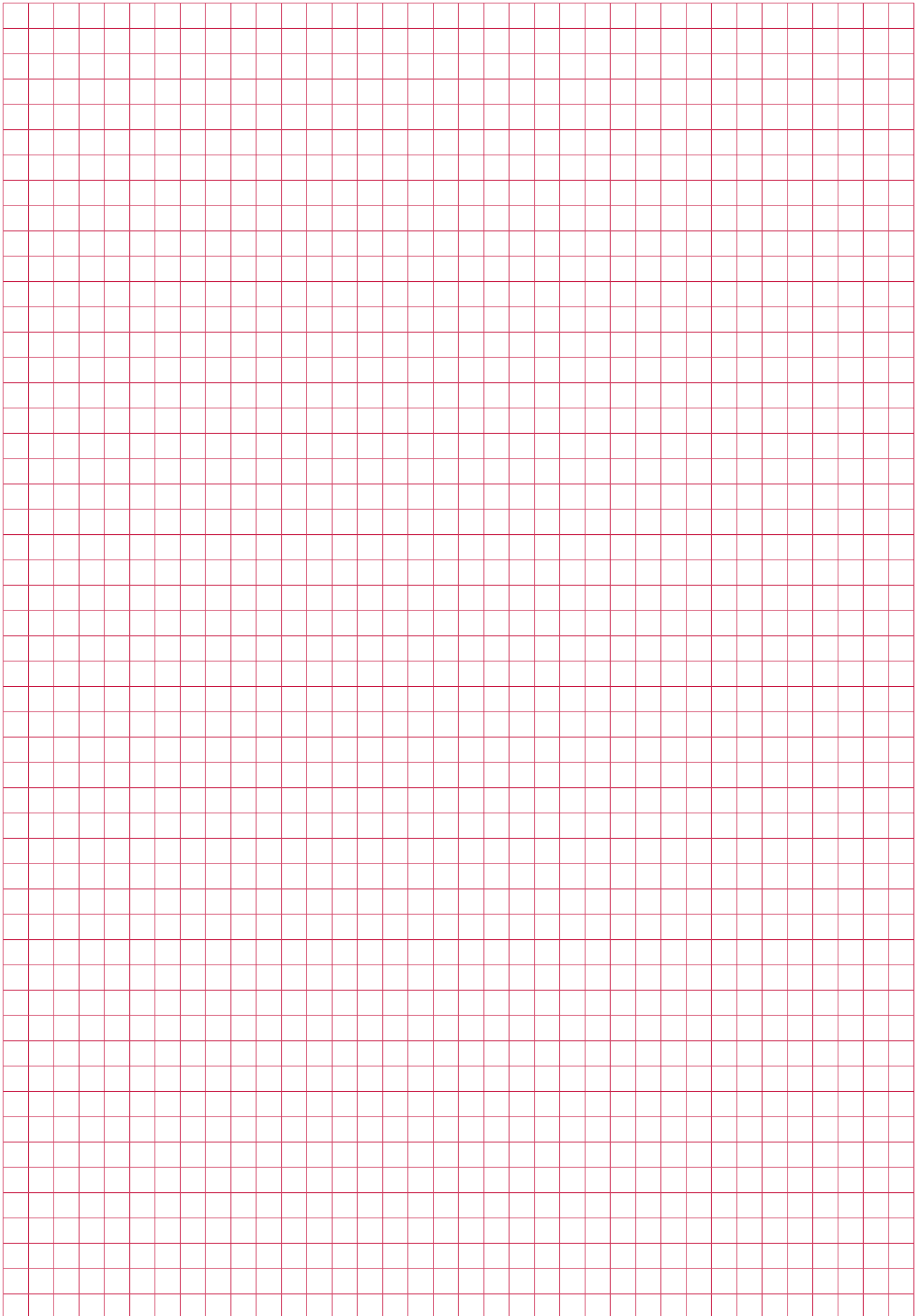
Multi Couplings

DME Jiffy Multicoupling	214
DME Jiffy Multicoupling accessories	216
Universal Multicoupling	217
Multi Couplings	229

Flowmeters

Electronic Flowmeter	234
Mechanical Flowmeters	235
Flowmeters	236







DME Standard - Jiffy-Tite Connectors

DME Jiffy-Tite plugs used with **DME** Jiffy-Tite (flow-through) type sockets and **DME** Jiffy-Matic (automatic shut off type) sockets are designed for use with plastics molds and die cast dies in water, air or oil lines. They feature a combination brass and stainless steel leak proof construction; have a maximum rated capacity of 13 bar and withstand temperatures of up to 200°C with supplied Viton seals.

DME Jiffy-Tite and Jiffy-Matic sockets can be used interchangeably with the same Jiffy-Tite plugs already in your mold or die. Comparable sizes of both type sockets have the same OD permitting interchangeability even when the plugs are flush mounted. Seals and hose barbs are easily replaceable saving cost.



Jiffy Tite Range

The Jiffy-Tite plugs and sockets provide a quick connect & disconnect method of changing heating & cooling hoses to the mold, as well as, from water manifolds or supply source. It is important to cool the mold so that the plastic material cools as quickly as possible to set up the part sufficiently so that it can be ejected from the mold as quick as possible for short cycle time. This helps to maintain part appearance & flow of material. Countersunk plugs can easily be connected and disconnected because of the extended sleeve. The angular connections prevent kinks from forming in the hose.

Working Pressure

PB = 13 bar, maximum static working pressure with safety factor 4 to 1.

Working Temperature*

-15°C up to +200°C depending on the medium.

Advantages

Available in single shut-off, double shut-off or straight-through versions. The shut-off couplings (with valve) are equipped with nickel plated sleeves for quick and accurate visual differentiation.

Couplings foreseen with the Replaceable Viton® Seal. Easy to change with Seal Removal Tool for customers benefit.

They are known for their larger flow through-holes what results in more flow, faster cycle times and greater cooling.

Jiffy-Seal® Pre-applied Thread Sealant on all male nipples

Material Coupling

Back Body	Brass
Valve Body	Brass
Sleeve	Brass (without Valve)
Sleeve	Brass, Nickel Plated (with valve)
Valve	Brass
Locking Balls	AISI 420
Seals	Viton®
Spring & Locking Rings	AISI 301

Plug

Plug Profile	Brass
Adapter	Brass
Valve	Brass
Spring and Locking Ring	AISI 301
Seal	Viton®



Safety instructions:

In the event of incorrect selection, incorrect and improper use, quick connect couplings and their accessories may cause damage to property and personal injury!

The consequences of incorrect selection, incorrect and improper use may be:

- ❖ Ends of hoses, coupling and plug components or accessories may fly around.
- ❖ Contact with fluids that are damaging to the health, toxic, cold or hot.
- ❖ Leakage of fluids under high pressure.
- ❖ Explosion or combustion of leaking fluids.
- ❖ Injuries and damage caused by uncontrolled movements of system parts through drop in fluid pressure.

Operating Instructions

- ❖ Coupling with two-handed operation : Couplings is effected by pushing back the sleeve, and at the same time, pushing the connector into the coupling. During the coupling make sure that the connector is pushed into the coupling as far as it will go. When the maximum push-in position has been reached, the sleeve must be released and only then the connector. The sleeve must move towards the connector until it reaches the same initial position as before actuation. It is important to check whether the lock has snapped into place by pulling the connector.
- ❖ Caution ! Fluid may leak during coupling, especially with couplings that are under pressure. Make sure that any fluid that may leak under these circumstances does not create any hazard.
- ❖ When Uncoupling without the built in valve (Jiffy-Tite®), it is essential that the fluid should be shut off before uncoupling. Uncoupling is affected by pushing back the sleeve. The coupling valve shuts off any further fluid supply, and at the same time the connector is pressed out of the coupling by the remaining fluid pressure and the valve spring. During uncoupling the connector must be firmly held in the hand in order to prevent it from spinning dangerously out of control.

Installation instructions

Before installation make sure that the selected quick coupling is suitable for the fluid to flow through it, with respect to its design , materials, seals, working pressure and working temperature.

- ❖ The installation location of the quick coupling or the connector must be in such a way that the operator cannot injure himself through dangerous locations in the direct vicinity, eg. slipping, jamming, contamination or burning
- ❖ When using hoses, the permissible operating pressure and temperature must not be exceeded. The hoses must be secured against slipping off the fittings with hose clamps.
- ❖ The recommended direction of flow is from the coupling to the connector, insofar as nothing else is specified.
- ❖ If no Jiffy-Seal® Thread sealant available the threads must be coated with suitable sealing agents such as PTFE tape.
- ❖ Covering caps and protected connectors are recommended for uncoupled connectors and couplings in order to prevent damage or contamination.

Maintenance Instructions

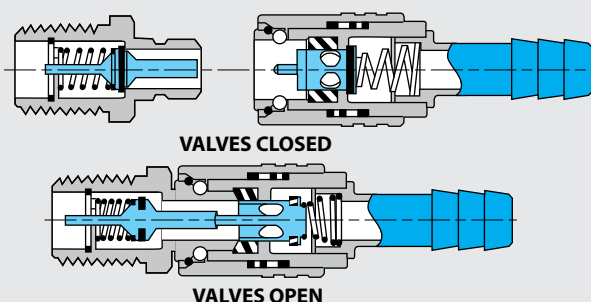
DME couplings are largely maintenance-free with standard applications and careful treatment, with the correct selection of coupling type and materials. We recommend a regular custom-made maintenance procedure, covering the following points:

- ❖ External visual inspection of the **DME** coupling combination. In the event of dirt accumulation in the functional area of coupling and connector this must be cleaned. The following properties require replacement of the parts in question: torn, damaged, very dirty or corroded parts, leaks in clutch of connector parts.
- ❖ Replacement intervals for quick connect couplings or replacement of the Viton seal with the Jiffy Seal Removal Tool JSTK-235

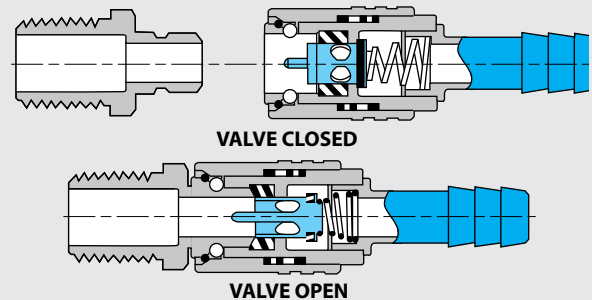


Operating Combinations

PCS-Series male plugs
with SVK-Series sockets (equivalent size)**



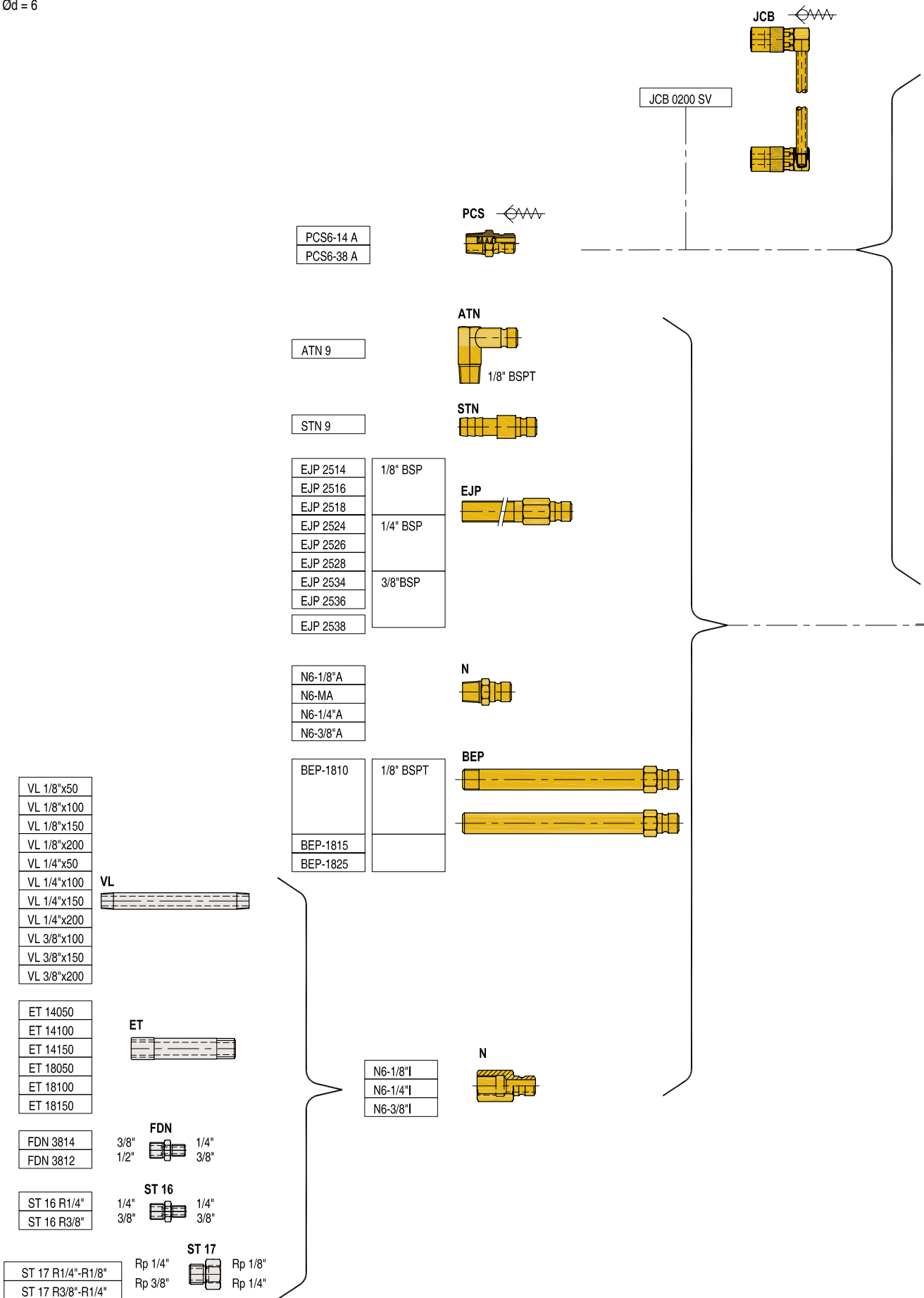
**Std. male, female or extension plugs
with SVK-Series sockets (equivalent size)**




**The PCS-Series Jiffy Matic Male plugs can only be used for two-way shut-offs and must be used with the SVK-Series Jiffy-Matic Sockets.





FLOW CHANNEL
max. Ød = 6



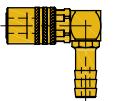
SVK 


SVK-106
SVK-109
SVK-106-PL
SVK-109-PL



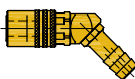
SVK 

SVK-206
SVK-209
SVK-206-PL
SVK-209-PL



SVK 

SVK-306
SVK-309
SVK-306-PL
SVK-309-PL




SVK 


SVK-200



BSP 1/8"

FSVK 

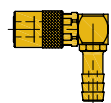
FSVK-106V



Rp 1/4"

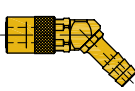
SK

SK-206
SK-209
SK-206-PL
SK-209-PL



SK

SK-306
SK-309
SK-306-PL
SK-309-PL



SK

SK-200



BSP 1/8"

FSK


FSK-206V




Rp 1/4"

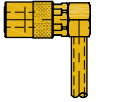
SK

SK-106
SK-109
SK-106-PL
SK-109-PL



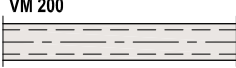
JCB or JCB 

JCB 0200
JCB 0200 SV



GS 1090 *
VM 200
PTLH

GS 1090
VM 200
Not for "Push-to-Lock"




For "Push-to-Lock"

Spare Parts

Accessories


BSS 1810
BSS 1815
BSS 1825



BSS

200-90 BSP

BSPT 1/8"



BSP 1/8"

200-45 BSP

BSPT 1/8"



BSP 1/8"


SST 12-1/8K

BSPT 1/8"




SST

US 1700 2




US 1700

US 1600 4



US 1600

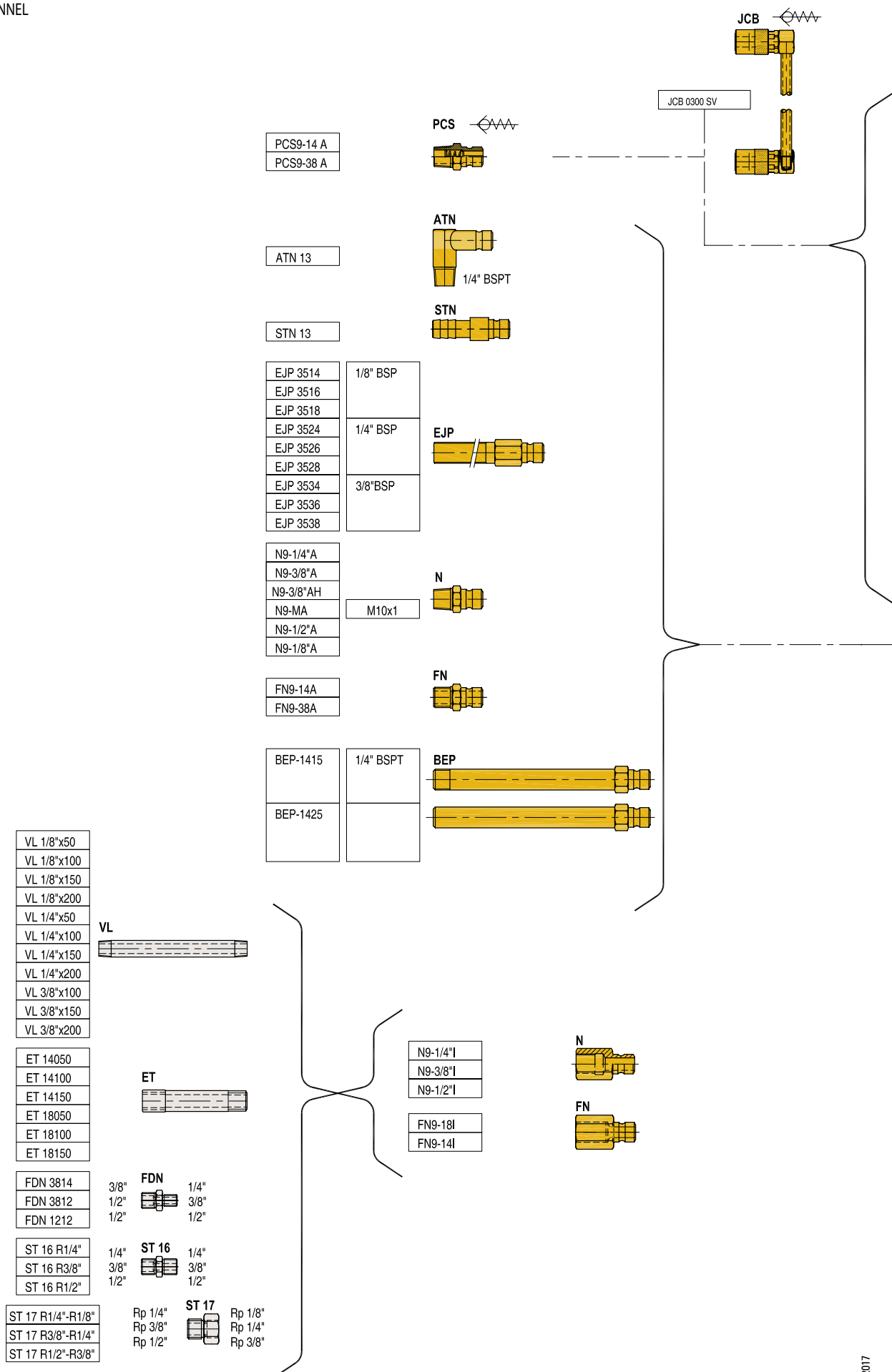
US 1650 4




US 1650


FLOW CHANNEL


max. Ød = 9



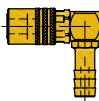
SVK 


SVK-111
SVK-113
SVK-111-PL
SVK-113-PL




SVK 

SVK-211
SVK-213
SVK-211-PL
SVK-213-PL



SVK 


SVK-311
SVK-313
SVK-311-PL
SVK-313-PL




SVK  BSP 1/4"


SVK-300



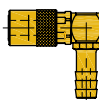
FSVK  Rp 3/8"


FSVK-111V



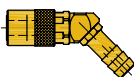
SK 


SK-211
SK-213
SK-211-PL
SK-213-PL




SK 


SK-311
SK-313
SK-311-PL
SK-313-PL




SK  BSP 1/4"


SK-300




FSK  Rp 3/8"



FSK-211V



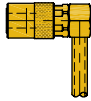
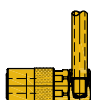
SK 

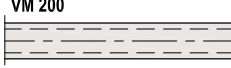
SK-111
SK-113
SK-111-PL
SK-113-PL

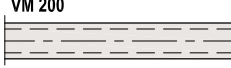


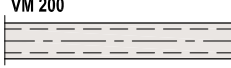
JCB or  JCB 

JCB 0300
JCB 0300 SV

GS 1090 13* 

VM 200 


PTLH 

Not for "Push-to-Lock"


For "Push-to-Lock"

Spare Parts

Accessories

BSS 


BSS 1415
BSS 1425

200/300-90° 

300-90 BSP

BSPT 1/4"


BSP 1/4"

200/300-45° 

300-45 BSP

BSPT 1/4"

BSP 1/4"


SST 

SST 14-1/4K

BSPT 1/4"

US 1700

US 1700 4




US 1600

US 1600 6

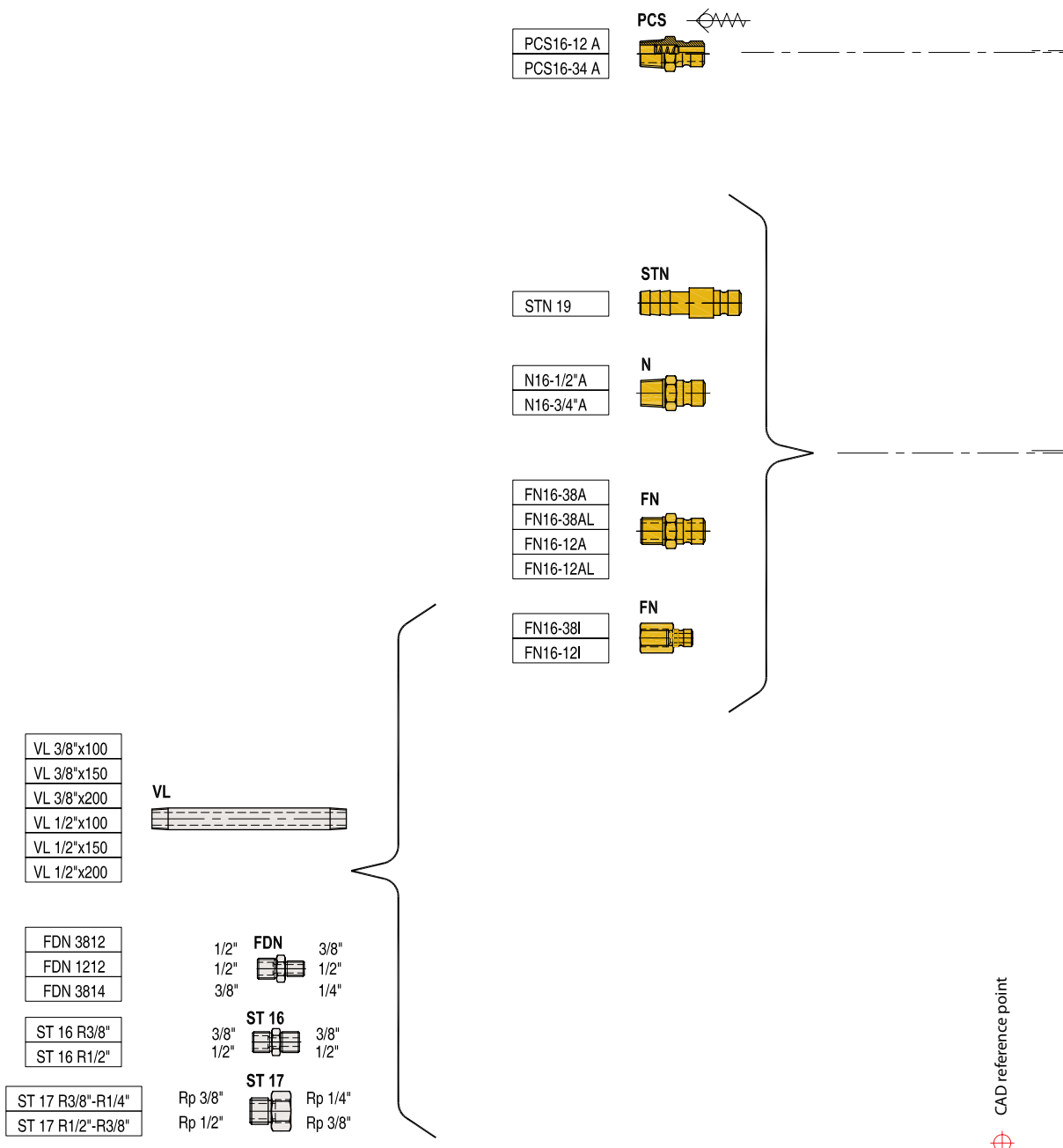


US 1650

US 1650 6



FLOW CHANNEL



- SVK

SVK-119
- SVK

SVK-219
- SVK

SVK-319
- SVK

SVK-500 BSP 1/2"
- FSVK

FSVK-119V Rp 1/2"
- SK

SK-219
SK-219-PL
- SK

SK-319
SK-319-PL
- SK

SK-500 BSP 1/2"
- FSK

FSK-219V Rp 1/2"
- SK

SK-119
SK-119-PL

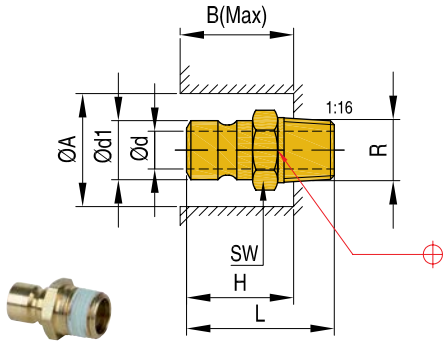
Spare Parts

CAD reference point

N

Connector plugs with PTFE seal

Mat.: Brass

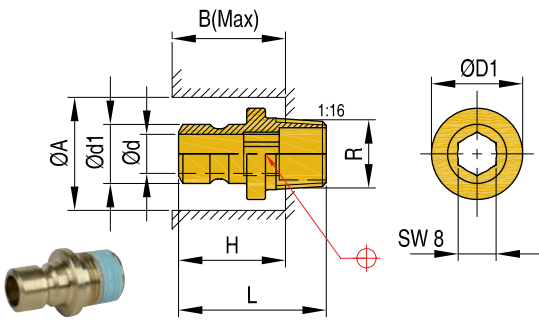


REF	R	d1	d	L	A	B	H	SW	Series
N618A	1/8" BSPT	9,4	6	24,0	22	18	17	13	N6
N6MA	M10x1			23,0					
N614A	1/4" BSPT			29,0					
N638A	3/8" BSPT			30,0					
N918A	1/8" BSPT	13,5	9	30,0	26	26	25	14	N9
N914A	1/4" BSPT			34,0					
N938A	3/8" BSPT			34,0					
N9MA	M10x1			6					
N912A	1/2" BSPT	19,9	16	39,0	37	28	26	24	N16
N1612A	1/2" BSPT			44,0					
N1634A	3/4" BSPT			45,0					

N

Connector plug with inner hexagon

Mat.: Brass



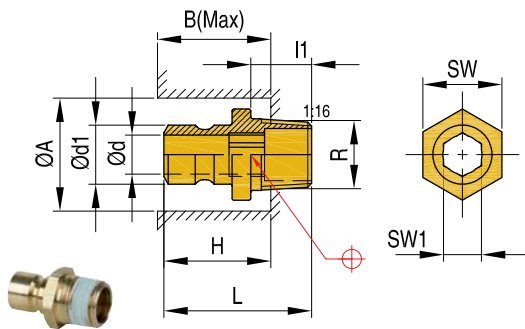
REF	R	d1	d	L	D1	A	B	H	Series
N938AH	3/8" BSPT	13,5	9	34	21	30	28	26	N9

N

Connector plug with inner hexagon

Mat.: Brass

- the Jiffy inner hexagon connector plugs enable easy mounting where space is limited when working with a wrench
- complete range supplied with thread sealant

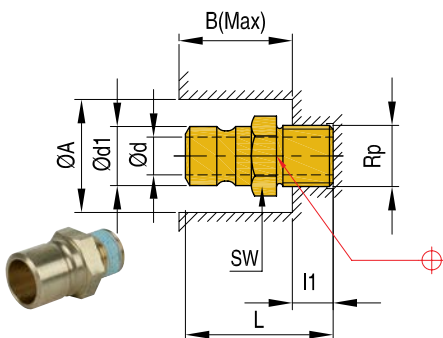


REF	R	d	d1	L	I1	A	B	H	SW	SW1	Series	
N618AHN	1/8" BSPT	6	9,4	23	9	22	16	14	11	5	N6	
N6M10AHN	M10x1											
N614AHN	1/4" BSPT											14
N6M14AHN	M14x1,5											
N914AHN	1/4" BSPT	9,3	13,5	34	14	26	22	20	16	8	N9	
N9M14AHN	M14x1,5											
N9M16AHN	M16x1,5											
N938AHN	3/8" BSPT											30

FN

Connector plugs for FSK and FSVK

Mat.: Brass



REF	Rp	A	B	d1	d	L	I1	SW	Series
FN914A	1/4" BSP	30	23,5	13,5	9	34	11,5	16	N9
FN938A	3/8" BSP							19	
FN1638A	3/8" BSP	32	29,5	19,9	15		40	22	N16
FN1638AL	3/8" BSP						53		
FN1612A	1/2" BSP						45		
FN1612AL	1/2" BSP						54		

All Male plugs (including PCS-Series) and extension plugs are now supplied with Jiffy-seal™ thread sealant . Eliminating the initial need for joint tape or compound.

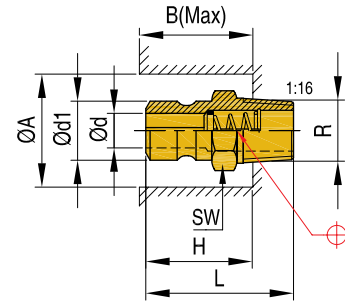
CAD reference point

Shut-off connector plugs for SVK

PCS

Mat.: Brass

REF	R	d1	d	L	A	B	H	SW	Series
PCS614A	1/4" BSPT	9,4	6	29,0	28	20	18	16	N6
PCS638A	3/8" BSPT			29,5	30			19	
PCS914A	1/4" BSPT	13,5	9	34,0	28	27	25	16	N9
PCS938A	3/8" BSPT			34,0	30			19	
PCS912A	1/2" BSPT			37,0	35			24	
PCS1612A	1/2" BSPT	19,9	15	44,4	35	34	32	7/8"	N16
PCS1634A	3/4" BSPT			42	32			30	

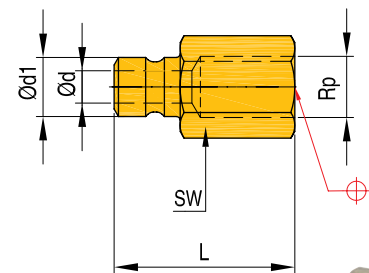


Connector plugs

N

Mat.: Brass

REF	Rp	d1	d	L	SW	Series
N618I	1/8" BSP	9,4	6	28	13	N6
N614I	1/4" BSP			32	16	
N638I	3/8" BSP			34	19	
N914I	1/4" BSP	13,5	9	37	16	N9
N938I	3/8" BSP			39	19	
N912I	1/2" BSP			46	24	

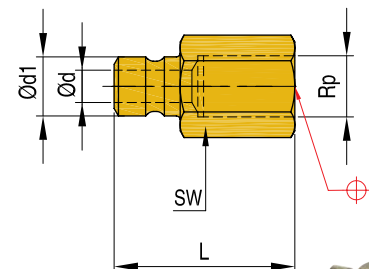


Connector plugs for FSK and FSVK

FN

Mat.: Brass

REF	Rp	d1	d	L	SW	Series
FN918I	1/8" BSP	13,5	9	32	16	N9
FN914I	1/4" BSP			37	19	
FN1638I	3/8" BSP	19,9	15	40	22	N16
FN1612I	1/2" BSP			45	24	

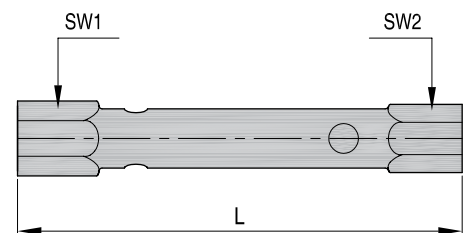


Socket wrenches

DS

Mat.: St. 55 DIN 2391

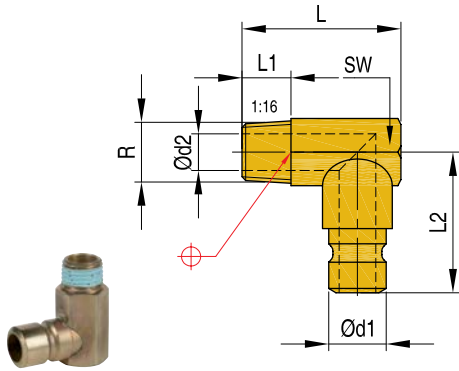
REF	L	SW1	SW2
DS1314	140	13	14
DS1617	150	16	17
DS1922	170	19	22
DS2427	190	24	27



ATN

Angle nipples

Mat.: Brass

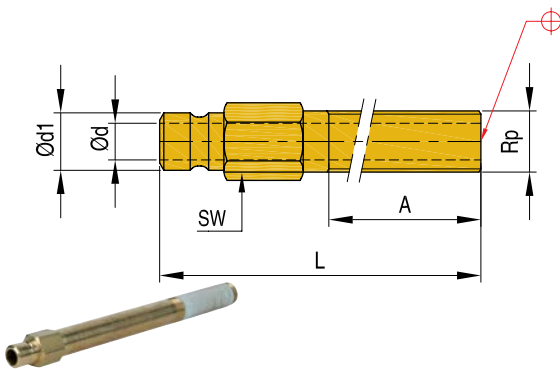


REF	R	d1	d2	L	L1	L2	SW	Series
ATN9	1/8" BSPT	9,4	6	27	9	23,0	11	N6
ATN13	1/4" BSPT	13,5	9	34	9	24,5	15	N9

EJP

Extension pipes

Mat.: Brass

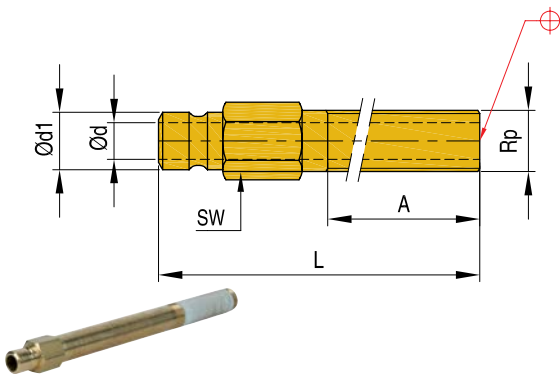


REF	Rp	d1	d	L	A	SW	Series
EJP2514	1/8" BSP	9,4	6,3	100	61	12	N6
EJP2516				150			
EJP2518				200			
EJP2524	1/4" BSP	9,4	6,3	100	61	15	N6
EJP2526				150			
EJP2528				200			
EJP2534	3/8" BSP	9,4	6,3	100	61	18	N6
EJP2536				150			
EJP2538				200			

EJP

Extension pipes

Mat.: Brass



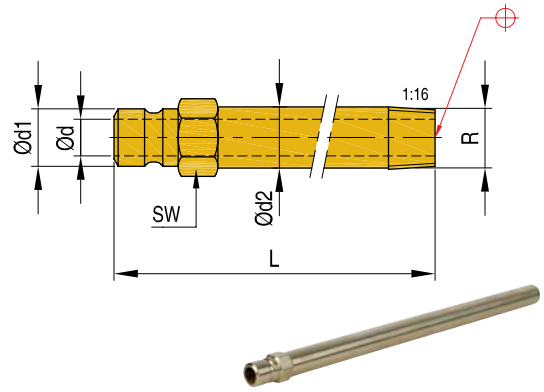
REF	Rp	d1	d	L	A	SW	Series
EJP3514	1/8" BSP	13,5	6,3	100	61	15	N9
EJP3516				150			
EJP3518				200			
EJP3524	1/4" BSP	13,5	9,5	100	61	15	N9
EJP3526				150			
EJP3528				200			
EJP3534	3/8" BSP	13,5	9,5	100	61	18	N9
EJP3536				150			
EJP3538				200			

Brass extension pipes

BEP

Mat.: Brass

REF	R	L	SW	d	d1	d2	Series
BEP1810	1/8" BSPT	100	11	6	9,4	10	N6
BEP1415	1/4" BSPT	150	15	9	13,5	14	N9

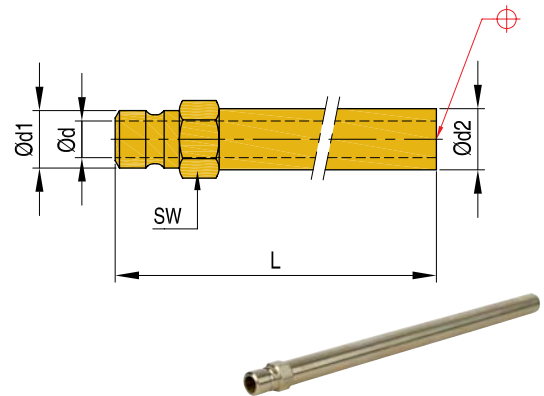


Brass extension pipes

BEP

Mat.: Brass

REF	L	SW	d	d1	d2	Series
BEP1815	150	11	6	9,4	10	N6
BEP1825	250					
BEP1425	250	15	9	13,5	14	N9

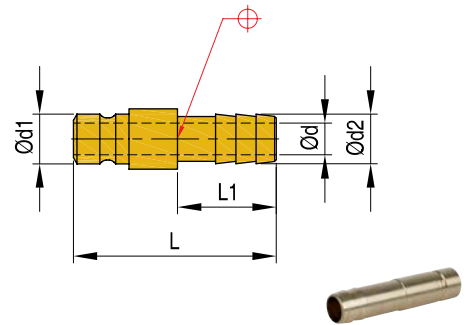


Hose Nipples

STN / STN PL

Mat.: Brass

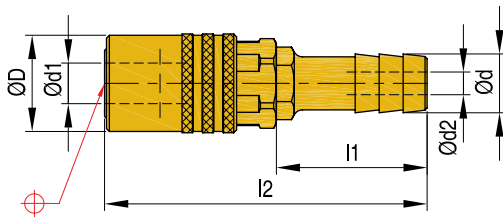
REF	d	d1	d2	L1	L	fits hose ID	Series
STN9	6,0	9,4	10	17	39,0	-	N6
STN13	9,0	13,5	14	21	41,0	-	N9
STN19	15,5	19,9	20	46	91,0	-	N16
STN9PL	6,0	9,4	-	24	37,0	3/8"	N6
STN13PL	9,0	13,5	-	28	48,0	1/2"	N9
STN19PL	14,0	19,9	-	28	63,5	3/4"	N16



SVK

Jiffy Matics straight with valve

Mat.: Brass-stainless steel

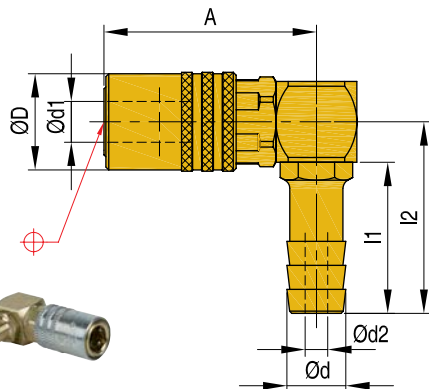


REF	d1	d2	d	D	l1	l2	Series
SVK106	9,5	5	7,3	17,0	27	57	N6
SVK109		6	10,5				
SVK111	13,6	9	12,2	22,6	27	68	N9
SVK113			14,0				
SVK119	20,0	16	20,0	30,0	46	103	N16

SVK (90°)

Jiffy Matics 90° with valve

Mat.: Brass-stainless steel

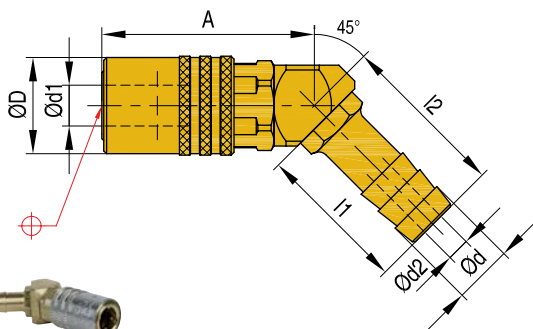


REF	d1	d2	d	D	A	l1	l2	Series
SVK206	9,5	5	7,3	17,0	38	27	34	N6
SVK209		6	10,5					
SVK211	13,6	9	12,2	22,6	52	27	37	N9
SVK213			14,0					
SVK219	20,0	16	20,0	30,0	74	46	69	N16

SVK (45°)

Jiffy Matics 45° with valve

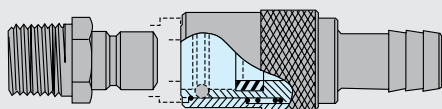
Mat.: Brass-stainless steel



REF	d1	d2	d	D	A	l1	l2	Series
SVK306	9,5	5	7,3	17,0	38	27	34	N6
SVK309		6	10,5					
SVK311	13,6	9	12,2	22,6	52	27	37	N9
SVK313			14,0					
SVK319	20,0	16	20,0	30,0	74	46	69	N16

Jiffy-Tite® Sockets

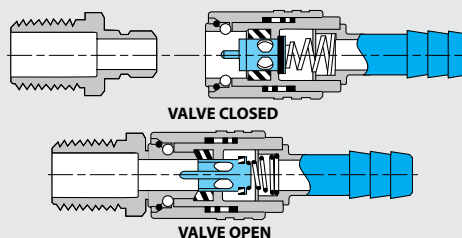
Flow-thru type



Jiffy-Tite sockets have a large thru hole to provide unrestricted flow.

Jiffy-Matic® Sockets

Automatic shut-off type



Jiffy-Tite & Jiffy-Matic sockets can be used interchangeably with the same Jiffy-Tite plugs already in your mold or die. Comparable sizes of both type sockets have the same O.D., permitting interchangeability even when the plugs are flush mounted.

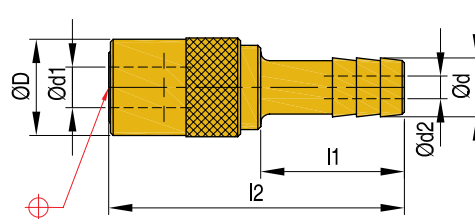
CAD reference point

JiffyTites straight

SK

Mat.: Brass-stainless steel

REF	d1	d2	d	D	l1	l2	Series
SK106	9,5	5	7,3	17,0	25	52	N6
SK109		6	10,5				
SK111	13,6	9	12,2	22,6	25	62	N9
SK113			14,0				
SK119	20,0	16	20,0	30,0	32	77	N16

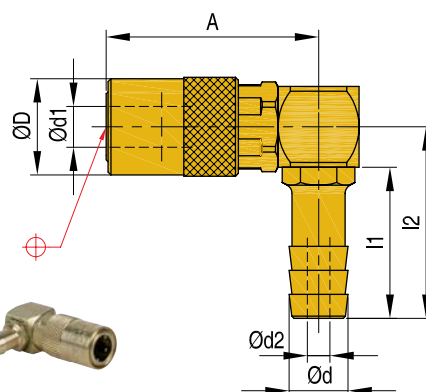


JiffyTites 90°

SK (90°)

Mat.: Brass-stainless steel

REF	d1	d2	d	D	A	l1	l2	Series
SK206	9,5	5	7,3	17,0	38	27	34	N6
SK209		6	10,5					
SK211	13,6	9	12,2	22,6	52	27	37	N9
SK213			14,0					
SK219	20,0	16	20,0	30,0	68	46	69	N16

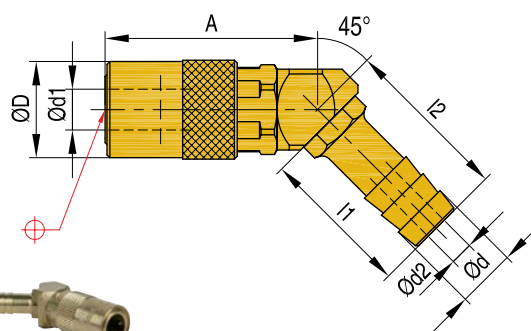


JiffyTites 45°

SK (45°)

Mat.: Brass-stainless steel

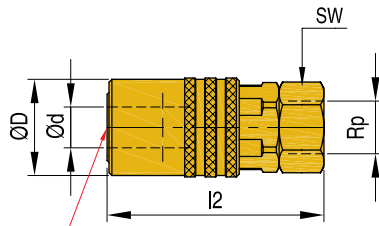
REF	d1	d2	d	D	A	l1	l2	Series
SK306	9,5	5	7,3	17,0	38	27	34	N6
SK309		6	10,5					
SK311	13,6	9	12,2	22,6	52	27	37	N9
SK313			14,0					
SK319	20,0	16	20,0	30,0	67	46	69	N16



SVK 200 - 300 - 500

Female Jiffy Matics with valve

Mat.: Brass-stainless steel

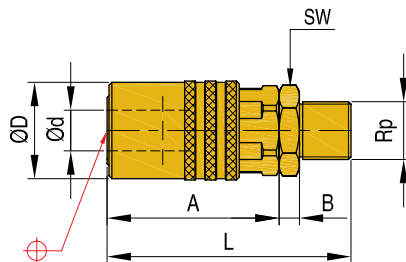


REF	Rp	d	l2	D	SW	Series
SVK200	1/8" BSP	9,5	39	17,0	1/2"	N6
SVK300	1/4" BSP	13,6	53	22,6	3/8"	N9
SVK500	1/2" BSP	20,0	57	30,0	1 1/8"	N16

FSVK

Jiffy Matics with valve

Mat.: Brass-stainless steel

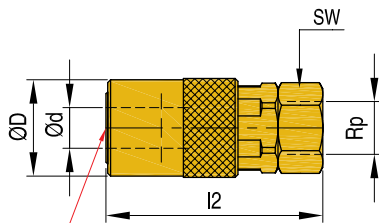


REF	Rp	d	L	D	A	B	SW	Series
FSVK106V	1/4" BSP	9,5	46	17,0	30,5	8,0	1/2"	N6
FSVK111V	3/8" BSP	13,6	60	22,6	41,0	8,5	3/8"	N9
FSVK119V	1/2" BSP	17,5	76	30,6	57,0	7,0	1 1/8"	N16

SK 200 - 300 - 500

Female Jiffy Tites

Mat.: Brass-stainless steel

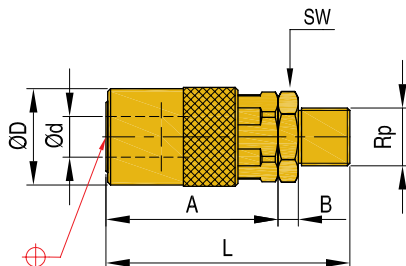


REF	Rp	d	l2	D	SW	Series
SK200	1/8" BSP	9,5	39	17,0	1/2"	N6
SK300	1/4" BSP	13,6	53	22,6	3/8"	N9
SK500	1/2" BSP	20,0	59	30,0	1 1/8"	N16

FSK

Jiffy Tites

Mat.: Brass-stainless steel



REF	Rp	d	L	D	A	B	SW	Series
FSK206V	1/4" BSP	9,5	46	17,0	30,5	7,0	1/2"	N6
FSK211V	3/8" BSP	13,6	60	22,6	41,0	8,0	3/8"	N9
FSK219V	1/2" BSP	20,0	72	30,0	51,0	8,5	1 1/8"	N16

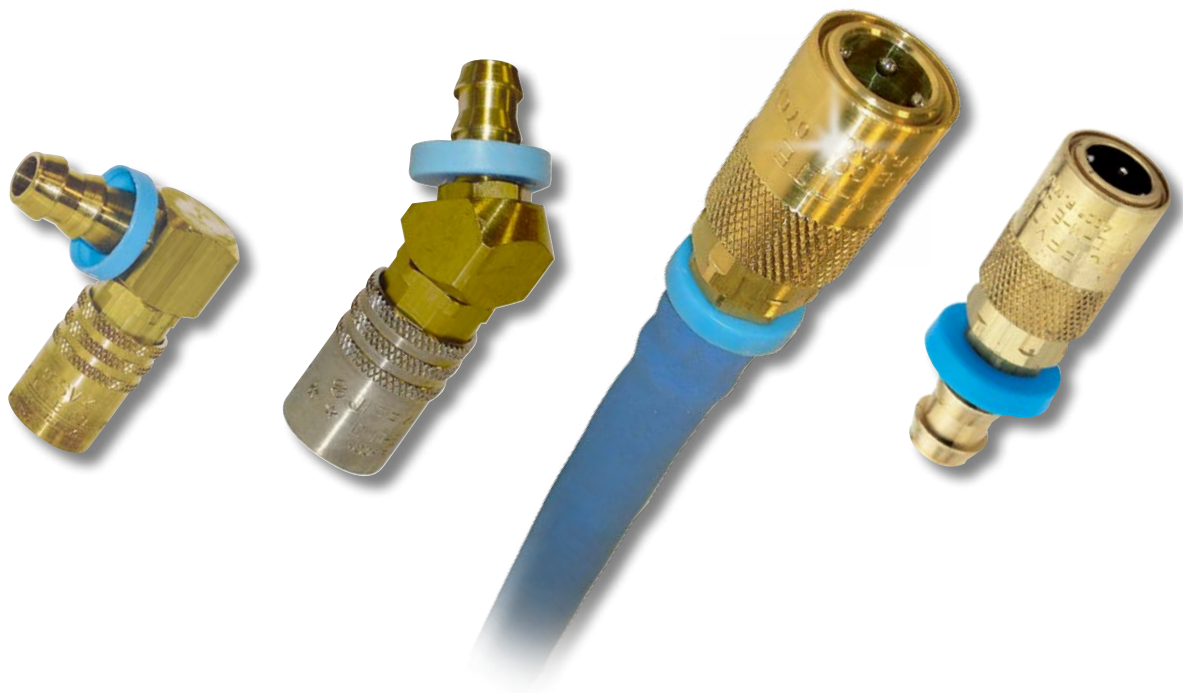


DME Push-to-Lock

DME Jiffy-Lok™ sockets used with special Push-to-Lock™ hose do not require the use of a hose clamp for hose retention. The special hose is simply pushed onto the stem and will stay on without any additional fasteners, even under conditions of severe temperature, vibration and pressure. The sockets have a blue plastic collar, purely for identification, to cover the cut end of the hose.

Jiffy-Lok™ sockets are compatible with standard Jiffy sockets/plugs. They are made of exactly the same brass and use the same high quality Viton seals.

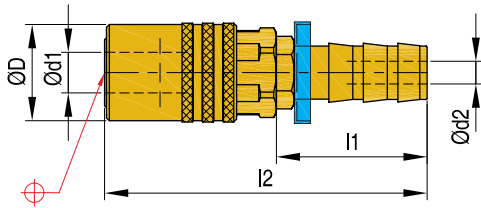
Use special Push-to-Lock™ hose (PTLH) only. Jiffy-Lok™ connector sockets are for use with water and water-based coolants only. Although the Sockets are suitable to temperatures to 200°C observe the temperature ratings of the hose. Never exceed 13 bar



SVK - PL

Jiffy Lok straight with valve "Push-to-Lock"

Mat.: Brass-stainless steel



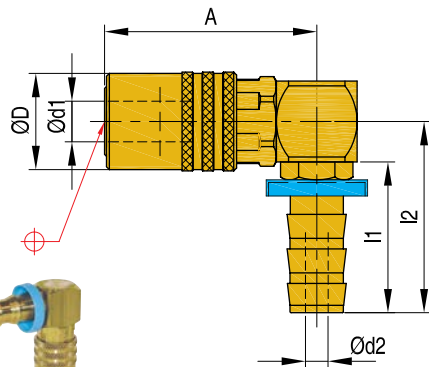
REF	d1	d2	fits	D	l1	l2	Series
SVK106PL	9,5	5	1/4"	17,0	27	57	N6
SVK109PL		6	3/8"				
SVK111PL	13,6	6	3/8"	22,6	27	68	N9
SVK113PL		9	1/2"				



SVK - 90° PL

Jiffy Lok 90° with valve "Push-to-Lock"

Mat.: Brass-stainless steel



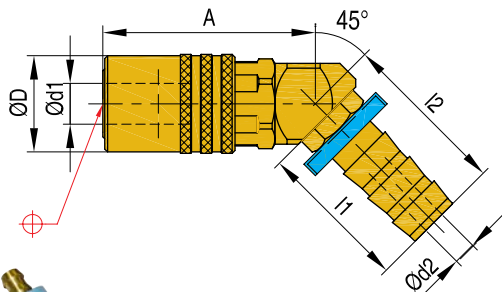
REF	d1	d2	fits	D	A	l1	l2	Series
SVK206PL	9,5	5	1/4"	17,0	38	27	34	N6
SVK209PL		6	3/8"					
SVK211PL	13,6	6	3/8"	22,6	52	27	37	N9
SVK213PL		9	1/2"					



SVK - 45° PL

Jiffy Lok 45° with valve "Push-to-Lock"

Mat.: Brass-stainless steel



REF	d1	d2	fits	D	A	l1	l2	Series
SVK306PL	9,5	5	1/4"	17,0	38	27	34	N6
SVK309PL		6	3/8"					
SVK311PL	13,6	6	3/8"	22,6	52	27	37	N9
SVK313PL		9	1/2"					



Jiffy-Lok® Connector Sockets

With clampless hose stems for use with "Push-to-Lock" type hose

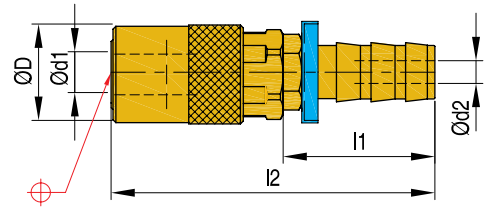
- ✓ Saves set-up time by eliminating the need for hose clamps.
- ✓ Popular sizes for interchangeability with existing Jiffy-Tite, Jiffy-Matic sockets.
- ✓ More compact and consistently sized than competitive sockets.
- ✓ Leakproof brass and stainless steel construction.
- ✓ Replaceable seals and valves for long service life.

Jiffy Lok Straight "Push-to-Lock"

SK - PL

Mat.: Brass-stainless steel

REF	d1	d2	fits	D	l1	l2	Series
SK106PL	9,5	5	1/4"	17,0	25	52	N6
SK109PL		6	3/8"				
SK111PL	13,6	6	3/8"	22,6	25	62	N9
SK113PL		9	1/2"				
SK119PL	20,0	14	3/4"	30,0	32	77	N16

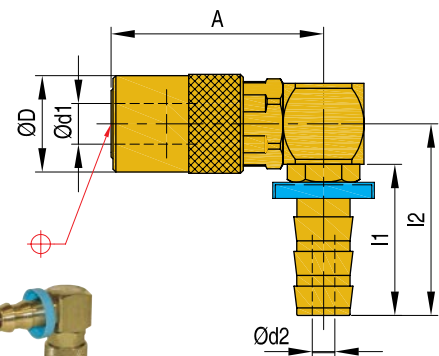


Jiffy Lok 90° "Push-to-Lock"

SK - 90° PL

Mat.: Brass-stainless steel

REF	d1	d2	fits	D	A	l1	l2	Series
SK206PL	9,5	5	1/4"	17,0	38	27	34	N6
SK209PL		6	3/8"					
SK211PL	13,6	6	3/8"	22,6	52	27	37	N9
SK213PL		9	1/2"					
SK219PL	20,0	14	3/4"	30,0	68	46	69	N16

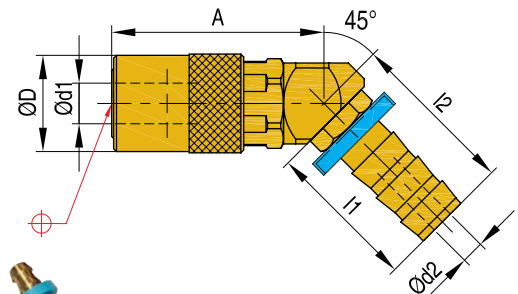


Jiffy Lok 45° "Push-to-Lock"

SK - 45° PL

Mat.: Brass-stainless steel

REF	d1	d2	fits	D	A	l1	l2	Series
SK306PL	9,5	5	1/4"	17,0	38	27	34	N6
SK309PL		6	3/8"					
SK311PL	13,6	6	3/8"	22,6	52	27	37	N9
SK313PL		9	1/2"					
SK319PL	20,0	14	3/4"	30,0	67	46	69	N16

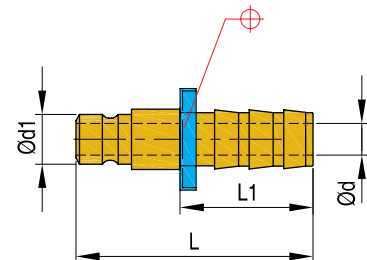


Hose Nipples

STN PL

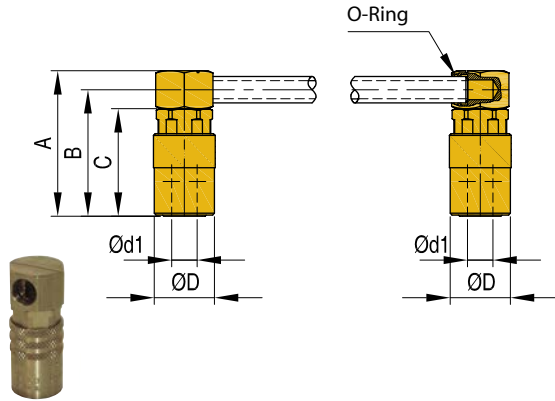
Mat.: Brass-stainless steel

REF	d	d1	d2	L1	L	fits hose ID	Series
STN9PL	6,0	9,4	-	24	37,0	3/8"	N6
STN13PL	9,0	13,5	-	28	48,0	1/2"	N9
STN19PL	14,0	19,9	-	28	63,5	3/4"	N16



JCB-SV

Jiffy Matics Socket Adapter with valve



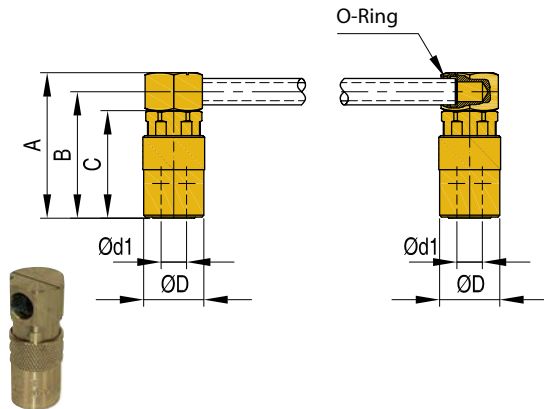
Mat.: Brass. Max. T: 200°C & 13,7 bar

Provides more compact port-to-port connections than conventional hose methods. 3 Socket adapter marked with cut-line groove for quick sizing of brass tube length.

REF	d1	D	A	B	C	Description	Series
JCB0200SV	9,5	17,0	44,2	37,3	30,5	TWO - WAY SHUT-OFF	N6
JCB0300SV	13,6	22,6	57,4	49,3	41,4	TWO - WAY SHUT-OFF	N9

JCB

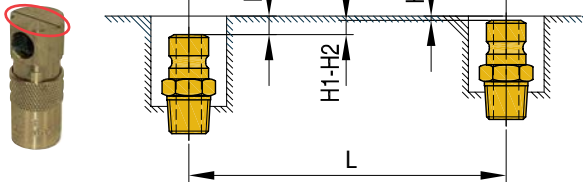
JiffyTite Socket Adapter



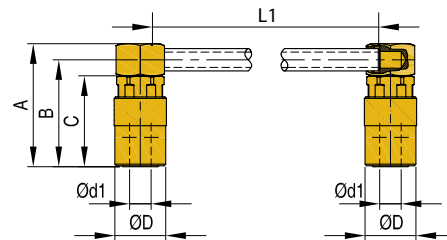
Mat.: Brass. Max. T: 200°C P 13,7 bar

REF	d1	D	A	B	C	Description	Series
JCB0200	9,5	17,0	44,2	37,3	30,5	FLOW - THRU	N6
JCB0300	13,6	22,6	57,4	49,3	41,4	FLOW - THRU	N9

Instalation guidlines



Use the groove on top of the sockets to accurately measure where to cut the tube JBT.



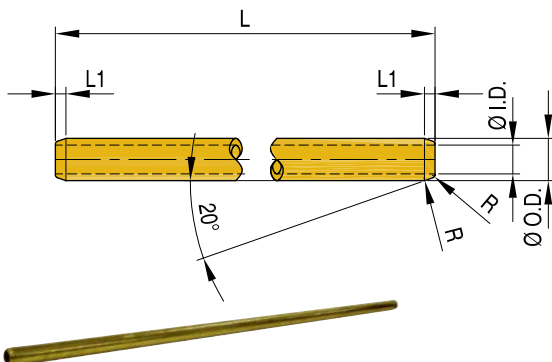
It is important to reduce the misalignment between the two nipples. It must not be bigger than the value shown on this table.

H1-H2	D
±0.3	50-100 mm
±0.5	100-200 mm
±0.8	200-300 mm
±1	300-400 mm

JBT

Brass Tube

Mat.: Brass

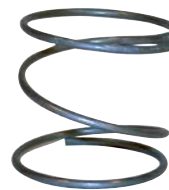


REF	d1	D	R	L	L1	Series
JBT0450	5,4	7,9	0,3	457	1,75	N6
JBT0570	7,8	11,1	0,3	457	2,00	N9

Collar springs

200 - 300 - 500

REF	Series
200-3	N6
300-3	N9
500-3	N16



Retainer rings

200 - 300 - 500

REF	Series
200-4	N6
300-4	N9
500-4	N16



Stainless steel balls

200 - 300 - 500

REF	Series
200-5	N6
300-5	N9
500-5	N16



Seals

200 - 300 - 500

Mat.: Viton 220°C

REF	Series
200-8	N6
300-8	N9
500-8	N16



Sparepart for coolant bridge

JCB - 200 - 300

Mat.: Viton O-Ring

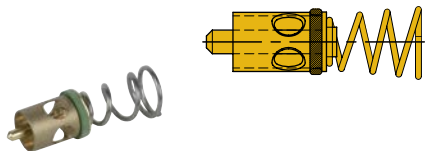
REF	Series
JCB0011	N6
JCB0013	N9
200-8	N6
300-8	N9



N / DK

Valves + springs

REF	Series
N6601	N6
N9601	N9
DKN16V	N16



JSTK

JiffyTite seal removal kit

Seals are replaceable saving costs.

When worn out, simply replace the seal instead of the whole coupling.

The Jiffy-Tite seal removal kit can be used for removal of connector seals from Jiffy-Matic sockets. Can also be used with Jiffy-Tite sockets to provide easier seal removal.



REF
JSTK235

SEA

Adhesives

Max. T: 204°C - 10g

REF	T	Info
SEA03	204°C	10g

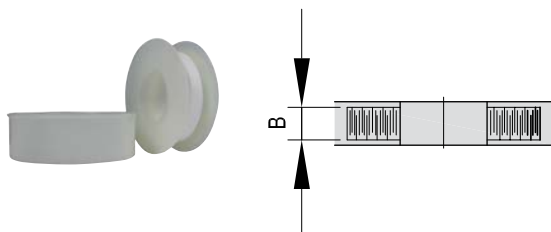


DB

Sealing tapes

Mat.: PTFE Max.T=250°C

REF	L	B
DB1206	12 m	6 mm
DB1212		12 mm

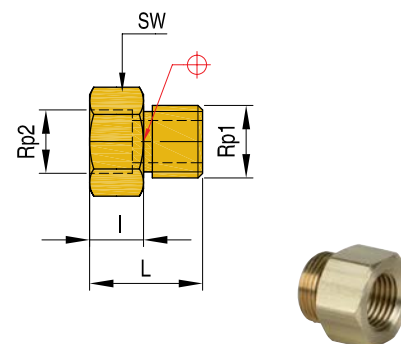


Adapters

N

Mat.: Brass

REF	Rp1	Rp2	L	l	SW	Series
N618	UNEF 7/16"-32	1/8" BSP	13	8	13	N6
N914	UNEF 5/8"-24	1/4" BSP	18	11	19	N9

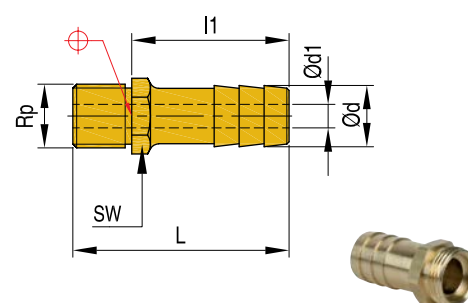


Hose Nipples

N / 500

Mat.: Brass

REF	Rp	d1	d	L	L1	SW	Series
N66M	UNEF 7/16"-32	5	6	32	27	11	N6
N69M	UNEF 7/16"-32	6	9				
N911M	UNEF 5/8"-24	9	11	33	27	16	N9
N913M	UNEF 5/8"-24		13				
50019M	BSP 1/2"-14	16	19	56	46	22	N16

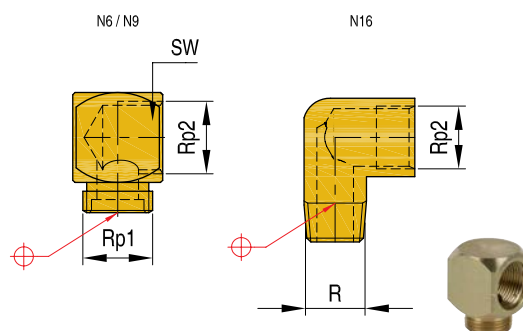


90° Angles

N / 500

Mat.: Brass

REF	Rp1	Rp2	R	SW	Series
N690	UNEF 7/16"-32	UNEF 7/16"-32	-	15	N6
N990	UNEF 5/8"-24	UNEF 5/8"-24	-	21	N9
50090	-	1/2" NPT	1/2" BSPT	26	N16

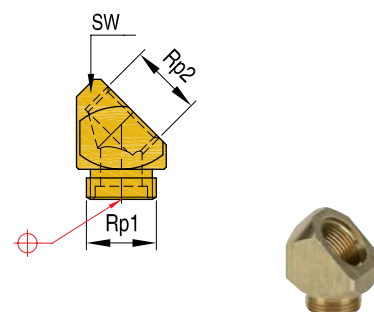


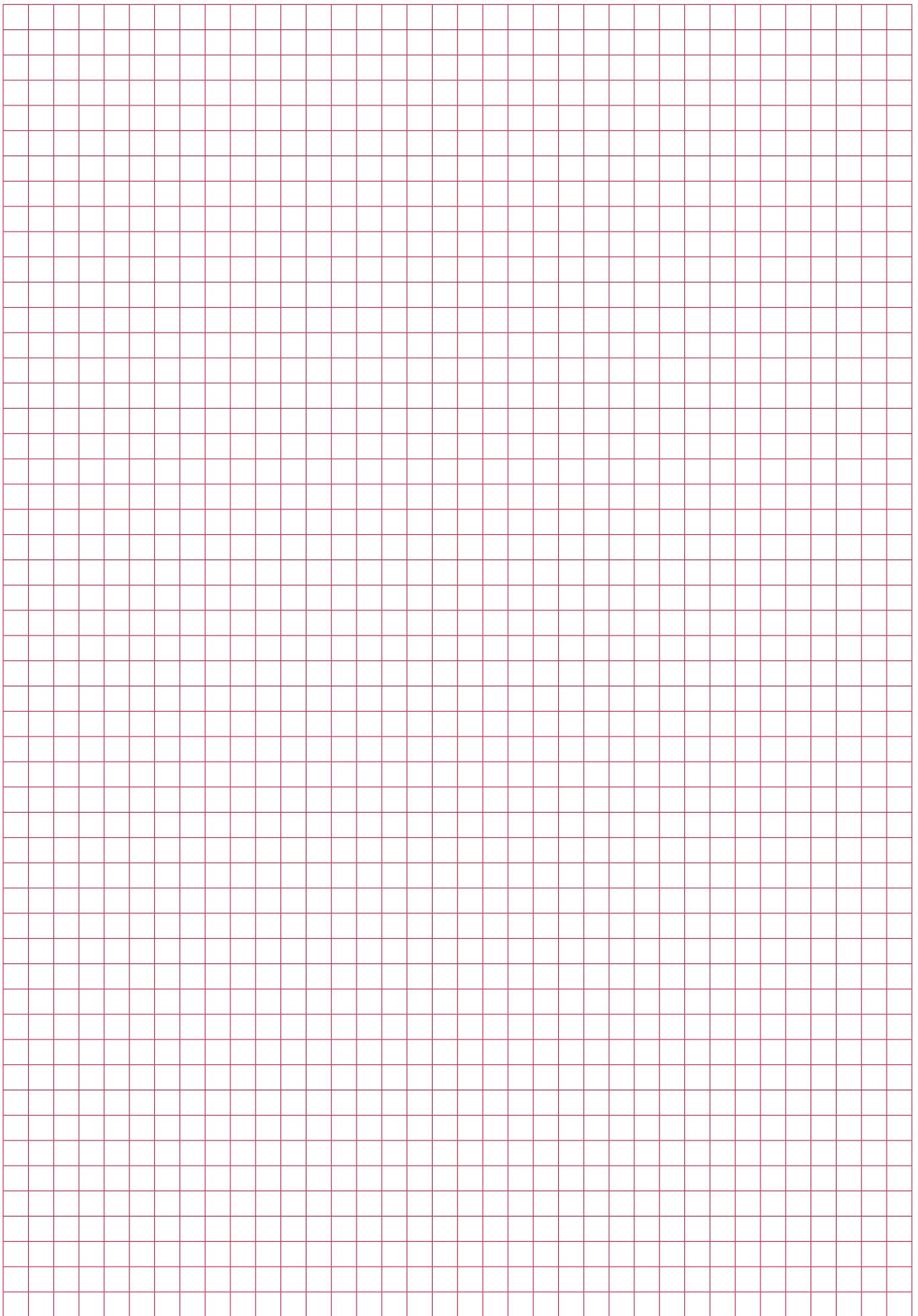
45° Angles

N / 500

Mat.: Brass

REF	Rp1	Rp2	SW	Series
N645	UNEF 7/16"-32	UNEF 7/16"-32	15	N6
N945	UNEF 5/8"-24	UNEF 5/8"-24	21	N9
50045	1/2" NPT	1/2" BSP	26	N16





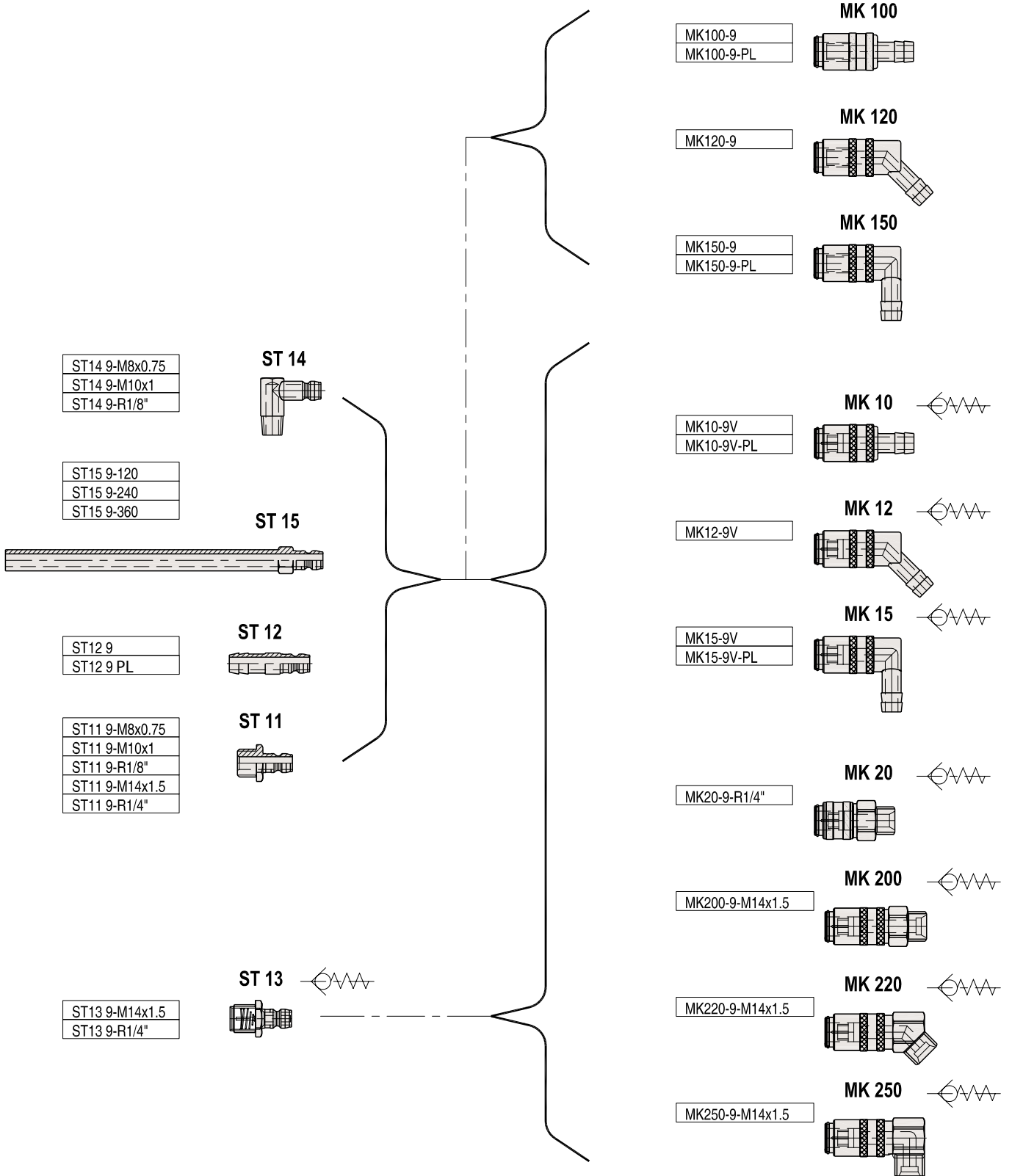


MILACRON®

Euro Series



FLOW CHANNEL



US 1700

US 1700 4



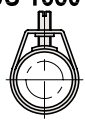
US 1600

US 1600 6



US 1650

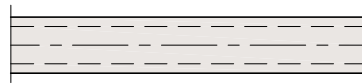
US 1650 6



GS 1090
VM 200

GS 1090 9 *

VM 200 9



Not for "Push-to-Lock"

PTLH

For "Push-to-Lock"

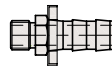
ST 155

ST155 9-120 M14x1.5
ST155 9-240 M14x1.5



HN

HN R1/8" - PL
HN M10x1 - PL



ST 16

ST16 R1/2"
ST16 R3/4"



ST 17

ST17 M14x1.5 - M18x1



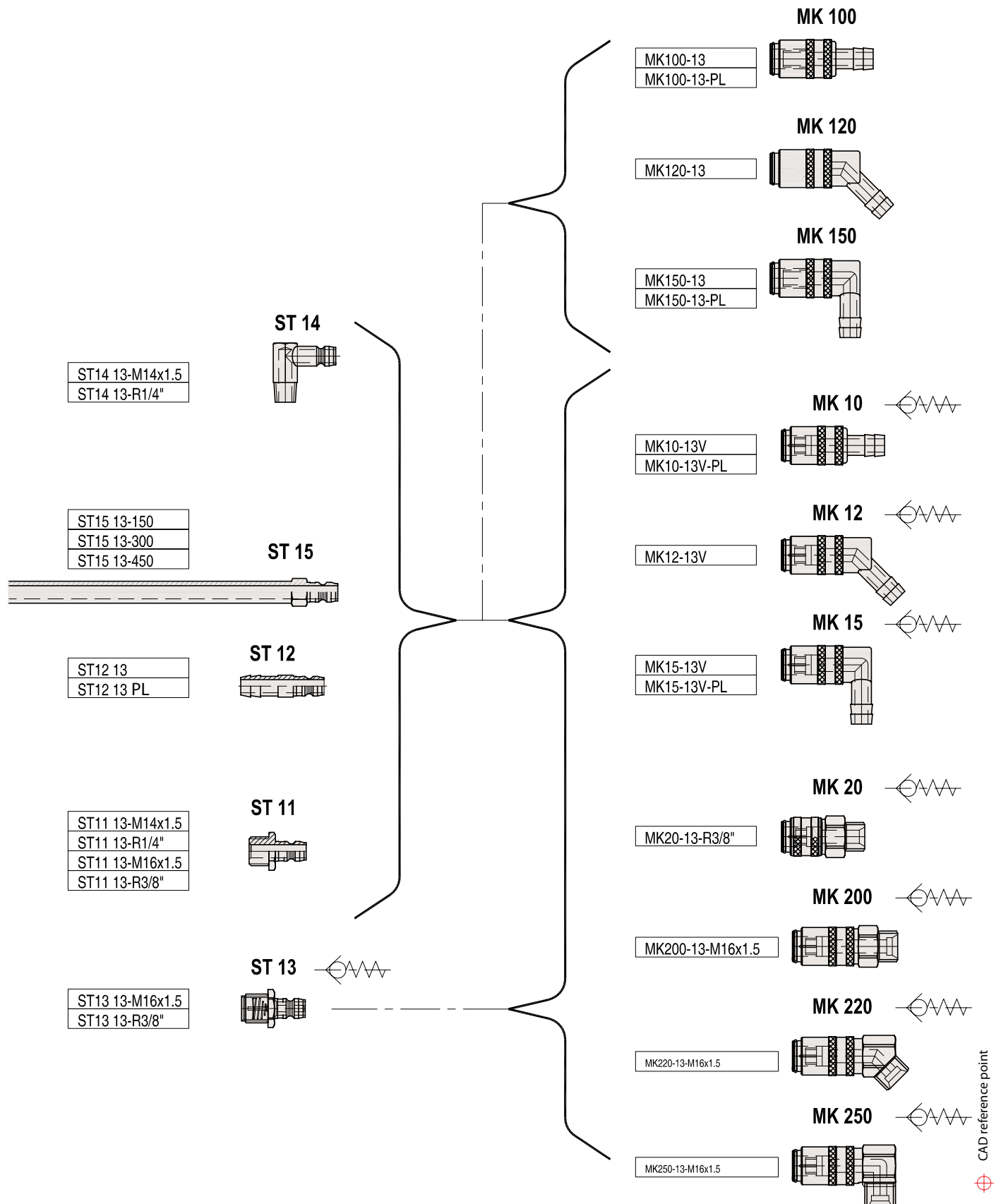
M18x1

Accessories



FLOW CHANNEL

max. Ød = 9



**GS 1090
VM 200**

GS 1090 13 *
VM 200 13
PTLH

Not for "Push-to-Lock"

For "Push-to-Lock"

US 1700

US 1700 4

US 1600

US 1600 6

US 1650

US 1650 6

ST 155

ST155 13-150 M16x1.5
ST155 13-300 M16x1.5

HN

HN M14x1.5 - PL
HN R1/4" - PL
HN R3/8" - PL
HN R1/2" - PL

ST 16

ST16 R1/2"
ST16 R3/4"

ST 17

ST17 M24x1.5 - M16x1,5
ST17 R1/2" - R3/8"

M18x1

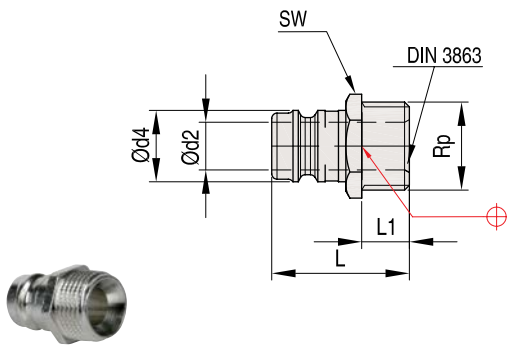
Accessories

CAD reference point

ST11

Open Connector plug

Mat.: Brass



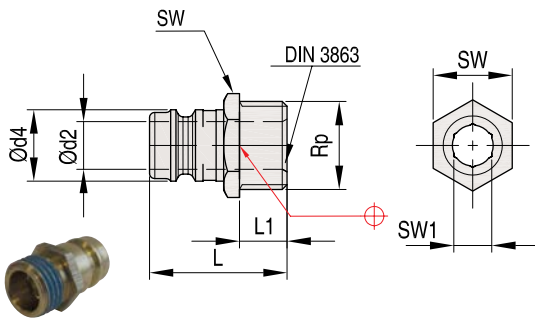
REF	Rp	d2	d4	L	L1	P (bar)	T (°C)	SW
ST1109M80-75	M8x0,75	4,5	9	24	7	15	200	11
ST1109M101	M10x1	6,0	9	24	7	15	200	11
ST1109R1/8	1/8" BSP			26	9	15	200	15
ST1109M141-5	M14x1,5							
ST1109R1/4	1/4" BSP	9,0	13	26	9	10	200	15
ST1113M141-5	M14x1,5							17
ST1113R1/4	1/4" BSP							
ST1113M161-5	M16x1,5							
ST1113R3/8	3/8" BSP							

ST11

Connector plug with inner hexagon

Mat.: Brass

- the inner hexagon connector plugs enable easy mounting where space is limited when working with a wrench
- complete range supplied with thread sealant

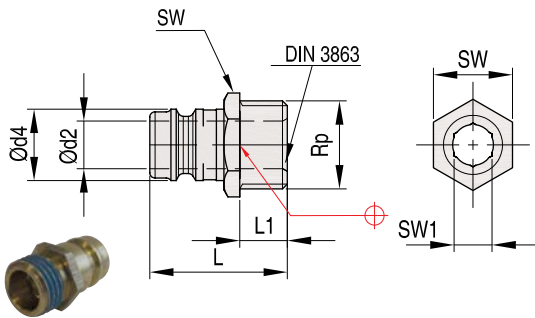


REF	Rp	d2	d4	L	L1	P (bar)	T (°C)	SW	SW1
ST1109R1/8H	1/8" BSP	6	9	24	7	15	200	11	5
ST1109M101H	M10 x 1								
ST1109R1/4H	1/4" BSP	6	9	26	9	15	200	15	5
ST1109M141-5H	M14 x 1,5								

ST11

Connector plug with inner hexagon

Mat.: Brass

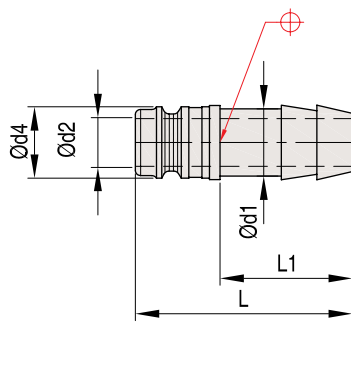


REF	Rp	d2	d4	L	L1	P (bar)	T (°C)	SW	SW1
ST1113R1/4H	1/4" BSP	9,3	13	26	9	15	200	15	8
ST1113M141-5H	M14 x 1,5								
ST1113M161-5H	M16 x 1,5	9,3	13	26	9	15	200	17	8
ST1113R3/8H	3/8" BSP								

ST12

Hose Nipples

Mat.: Brass



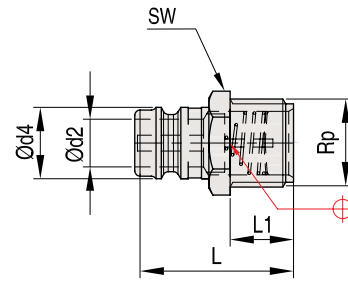
REF	d1	d2	d4	L	L1
ST1209	9	6	9	40	17
ST1213	13	9	13	41	25

Shut-off Connector plug

ST13

Mat.: Brass, O-ring: Viton

REF	Rp	d2	d4	L	L1	P (bar)	T (°C)	SW
ST1309M141-5	M14x1,5	6	9	29	12	15	200	15
ST1309R1/4	1/4" BSP							
ST1313M161-5	M16x1,5	9	13	30	12	10	200	17
ST1313R3/8	3/8" BSP							

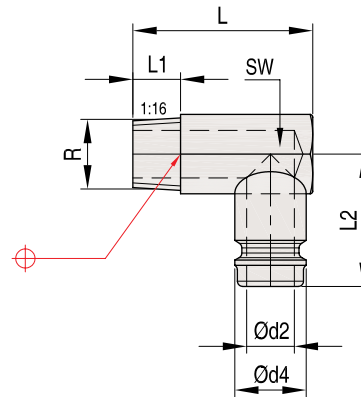


Angle Connector plugs

ST14

Mat.: Brass

REF	R	d2	d4	L	L1	L2	SW
ST1409M08-075	M8x0,75	4,5	9	27	9	23	11
ST1409M101	M10x1	6,0	9	27	9	23	11
ST1409R1/8	1/8" BSPT						
ST1413M141-5	M14x1,5	9,0	13	34	9	25	15
ST1413R1/4	1/4" BSPT						

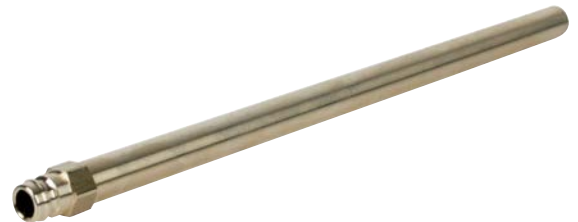
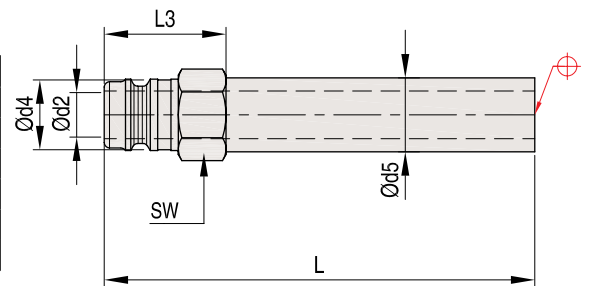


Extension nipples

ST15

Mat.: Brass

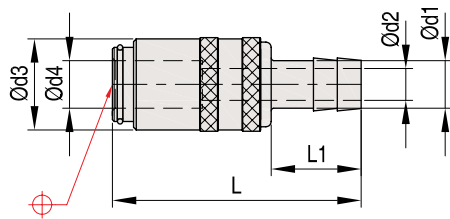
REF	d2	d4	d5	l3	L	SW
ST1509120	6	9	10	21	120	11
ST1509240					240	
ST1509360					360	
ST1513150	9	13	14	23	150	15
ST1513300					300	
ST1513450					450	



MK10

Quick Release coupling straight with valve

Mat.: Brass, O-ring: Viton

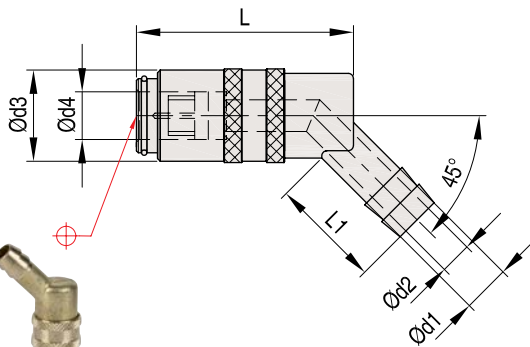


REF	d1	d2	d3	d4	L	L1	P (bar)	T (°C)
MK1009V	9	6	17	9	47	17	15	200
MK1013V	13	9	22	13	61	25	10	200

MK12

Quick Release coupling 45° with valve

Mat.: Brass, O-ring: Viton

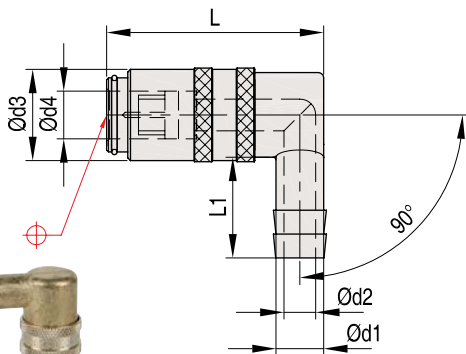


REF	d1	d2	d3	d4	L	L1	P (bar)	T (°C)
MK1209V	9	6	17	9	41	17	15	200
MK1213V	13	9	22	13	51	25	10	200

MK15

Quick Release coupling 90° with valve

Mat.: Brass, O-ring: Viton



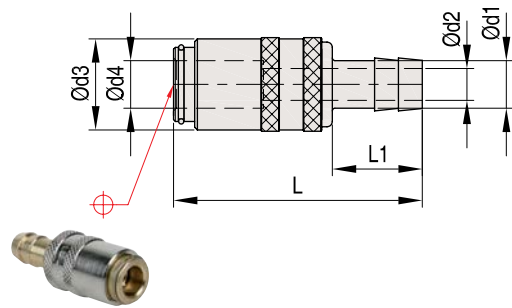
REF	d1	d2	d3	d4	L	L1	P (bar)	T (°C)
MK1509V	9	6	17	9	41	19	15	200
MK1513V	13	9	22	13	51	28	10	200

Quick Release coupling straight

MK100

Mat.: Brass, O-ring: Viton

REF	d1	d2	d3	d4	L	L1	P (bar)	T (°C)
MK10009	9	6	17	9	47	17	15	200
MK10013	13	9	22	13	61	25	10	200

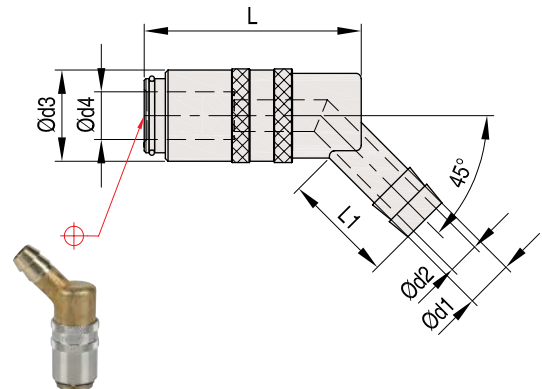


Quick Release coupling 45°

MK120

Mat.: Brass, O-ring: Viton

REF	d1	d2	d3	d4	L	L1	P (bar)	T (°C)
MK12009	9	6	17	9	41	17	15	200
MK12013	13	9	22	13	51	25	10	200

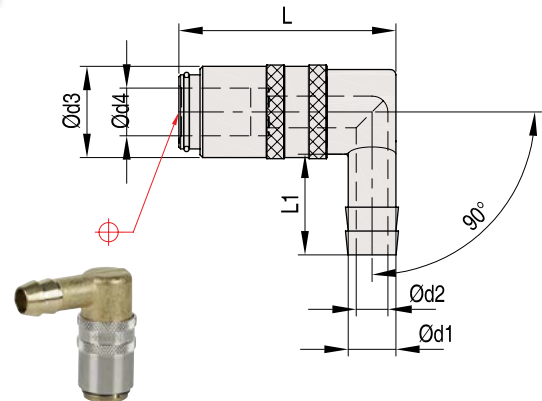


Quick Release coupling 90°

MK150

Mat.: Brass, O-ring: Viton

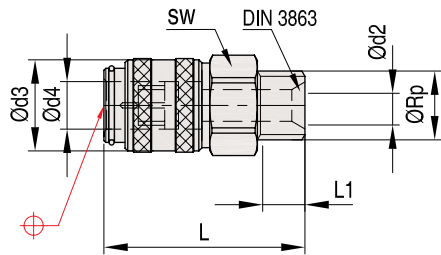
REF	d1	d2	d3	d4	L	L1	P (bar)	T (°C)
MK15009	9	6	17	9	41	19	15	200
MK15013	13	9	22	13	51	28	10	200



MK20

Quick Release coupling straight with valve and thread

Mat.: Brass, O-ring: Viton



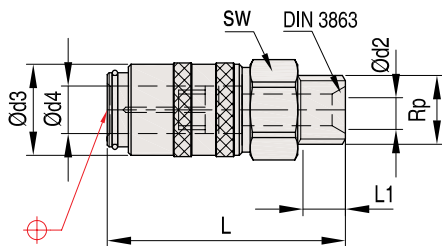
REF	Rp	d2	d3	d4	L	L1	P (bar)	T (°C)	SW
MK2009R1/4	1/4" BSP	7	18	9	38	9	15	200	17
MK2013R3/8	3/8" BSP	10	23	13	38	9	10	200	22



MK200

Quick Release coupling straight with valve and thread

Mat.: Brass, O-ring: Viton



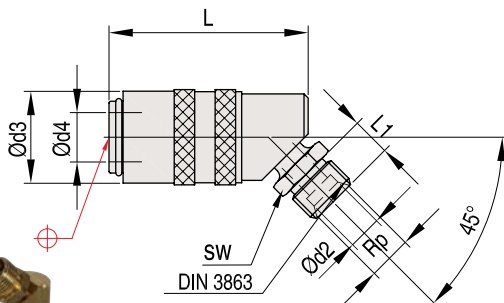
REF	Rp	d2	d3	d4	L	L1	P (bar)	T (°C)	SW
MK20009M141-5	M14x1,5	6	17	9	48	9	15	200	17
MK20013M161-5	M16x1,5	9	23	13	52	9	10	200	22



MK220

Quick Release coupling 45° with valve and thread

Mat.: Brass, O-ring: Viton



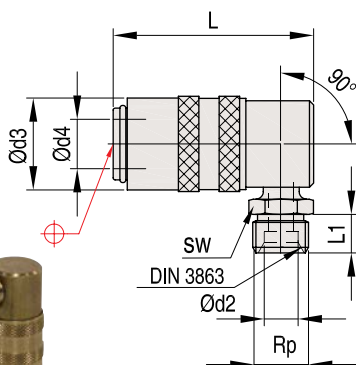
REF	Rp	d2	d3	d4	L	L1	P (bar)	T (°C)	SW
MK22009M141-5	M14x1,5	6	18	9	42	9	15	200	17
MK22013M161-5	M16x1,5	9	23	13	52	10	10	200	17



MK250

Quick Release coupling 90° with valve and thread

Mat.: Brass, O-ring: Viton



REF	Rp	d2	d3	d4	L	L1	P (bar)	T (°C)	SW
MK25009M141-5	M14x1,5	6	18	9	42	9	15	200	17
MK25013M161-5	M16x1,5	9	23	13	52	10	10	200	17



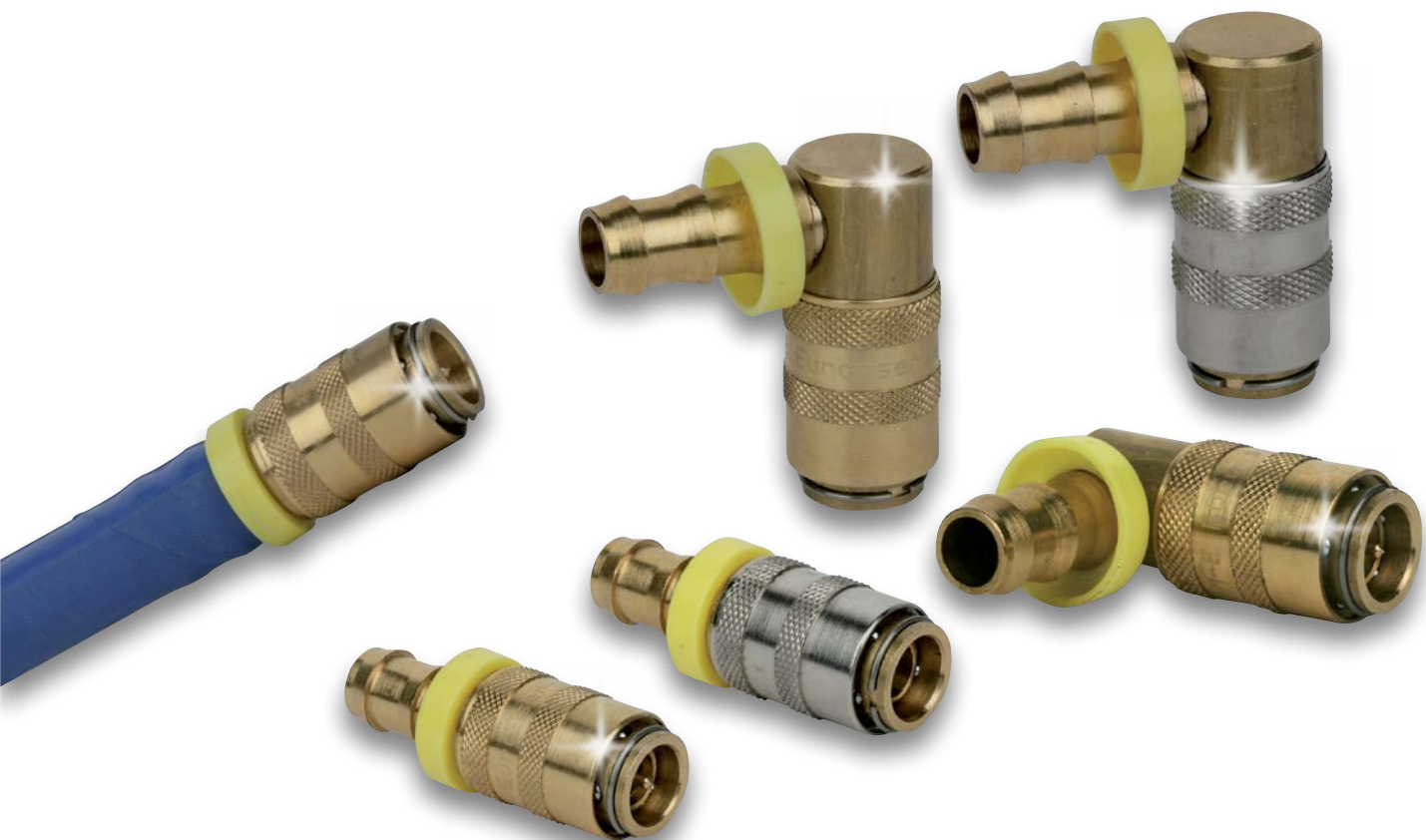


Euro Push-to-Lock

DME Euro Series sockets used with special Push-to-Lock™ hose do not require the use of a hose clamp for hose retention. The special hose is simply pushed onto the stem and will stay on without any additional fasteners, even under conditions of severe temperature, vibration and pressure. The sockets have a yellow plastic collar, purely for identification, to cover the cut end of the hose.

Euro sockets are compatible with standard sockets/plugs. They are made of exactly the same brass and use the same high quality Viton seals.

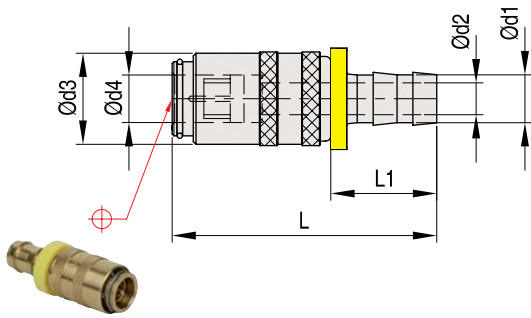
Use special Push-to-Lock™ hose (PTLH) only. Euro connector sockets are for use with water and water-based coolants only. Although the Sockets are suitable for temperatures to 200°C observe the temperature ratings of the hose (standard 85°C). Never exceed 13 bar



⊕ MK10-PL

Quick Release coupling straight with valve "Push-to-Lock"

Mat.: Brass, O-ring: Viton

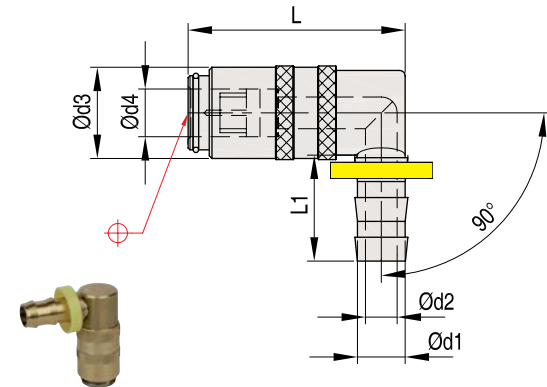


REF	d1	d2	d3	d4	L	L1	P (bar)	T (°C)
MK1009VPL	10	7,5	17	9	54	24	15	200
MK1013VPL	13	10	23	13	64	28	10	200

⊕ MK15-PL

Quick Release coupling 90° with valve "Push-to-Lock"

Mat.: Brass, O-ring: Viton

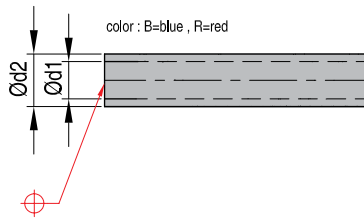


REF	d1	d2	d3	d4	L	L1	P (bar)	T (°C)
MK1509VPL	10	7,5	17	9	42	24	15	200
MK1513VPL	13	10	23	13	52	28	10	200

PTLH

"Push-to-Lock" Hoses

Mat.: Mixture of synthetic elastomers, black smooth



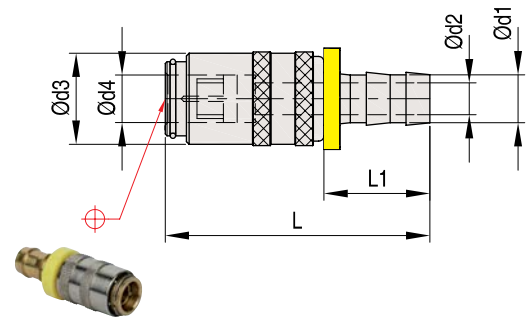
REF	d1	d2	Pmax.	T (°C)	Info
PTLH10R	3/8"	16	20bar	-35->85	20m roll
PTLH10B					
PTLH13R	1/2"	19	20bar	-35->85	20m roll
PTLH13B					

Quick Release coupling straight "Push-to-Lock"

MK 100 - PL

Mat.: Brass, O-ring: Viton

REF	d1	d2	d3	d4	L	L1	P (bar)	T (°C)
MK10009PL	10	7,5	17	9	54	24	15	200
MK10013PL	13	10	23	13	64	28	10	200

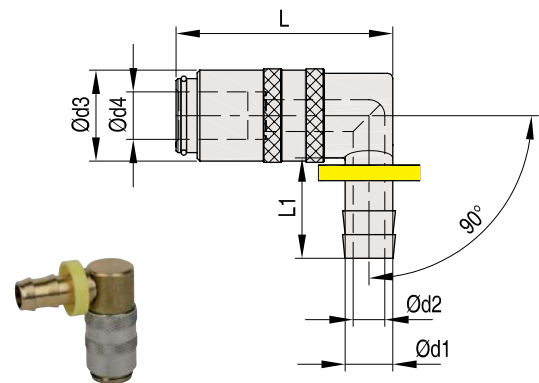


Quick Release coupling 90° "Push-to-Lock"

MK 150 - PL

Mat.: Brass, O-ring: Viton

REF	d1	d2	d3	d4	L	L1	P (bar)	T (°C)
MK15009PL	10	7,5	17	9	42	24	15	200
MK15013PL	13	10	23	13	52	28	10	200

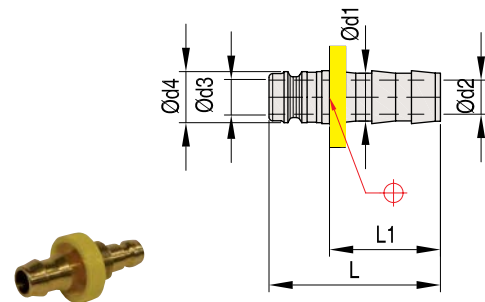


Hose Nipples "Push-to-Lock"

ST 12 - PL

Mat.: Brass

REF	d1	d2	d3	d4	L1	L
ST1209PL	10	7,5	6	9	24	44
ST1213PL	13	10	9	13	28	45

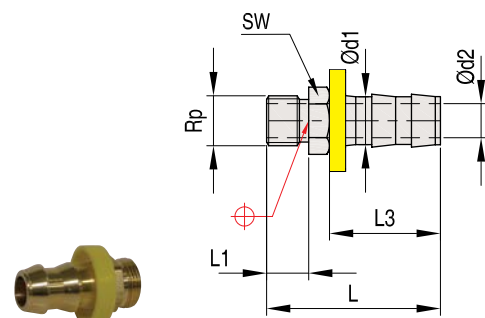


Hose Nipples "Push-to-Lock"

HN - PL

Mat.: Brass

REF	Rp	d1	d2	L	L1	L3	SW
HNR18PL	R1/8" BSP	10	6	39	9	24	17
HNM101PL	M10x1						
HNM141-5PL	M14x1,5	12,7	9	45	11	28	17
HNR14PL	R1/4" BSP	12,7	10	45	11	28	19
HNR38PL	R3/8" BSP			45	11		
HNR12PL	R1/2" BSP			49	14		

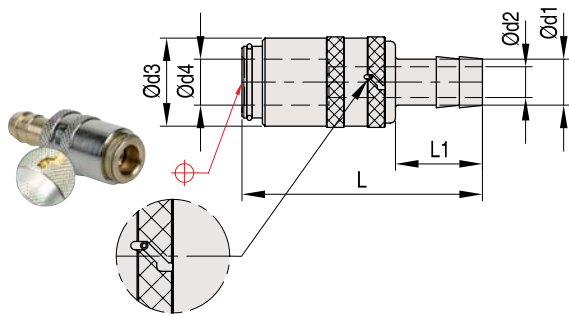


CAD reference point



MKS100

Quick Release safety coupling straight



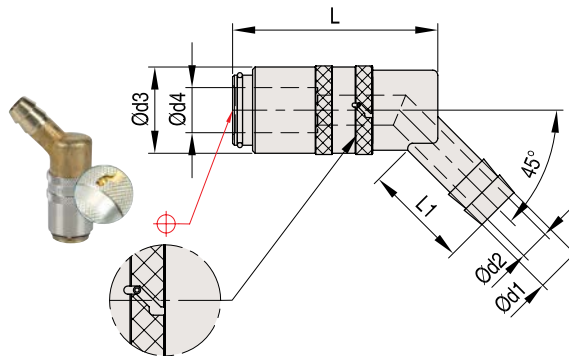
Mat.: Brass, O-ring: Viton

- Extra bayonet-safety sleeve prevents accidental unlocking
- Unlocking is only possible by turning the sleeve when opening

REF	d1	d2	d3	d4	L	L1	P (bar)	T (°C)
MKS10009	9	6	17	9	47	17	15	200
MKS10013	13	9	22	13	61	25	10	200

MKS120

Quick Release safety coupling 45°

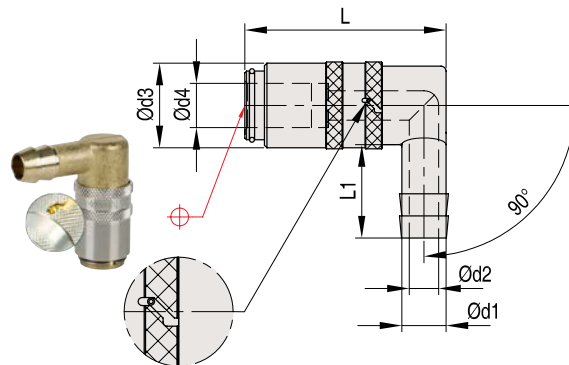


Mat.: Brass, O-ring: Viton

REF	d1	d2	d3	d4	L	L1	P (bar)	T (°C)
MKS12009	9	6	17	9	41	17	15	200
MKS12013	13	9	22	13	51	25	10	200

MKS150

Quick Release safety coupling 90°

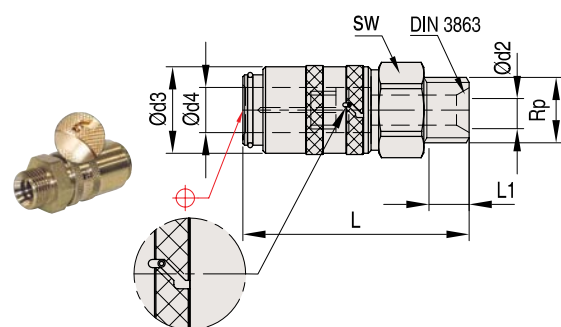


Mat.: Brass, O-ring: Viton

REF	d1	d2	d3	d4	L	L1	P (bar)	T (°C)
MKS15009	9	6	17	9	41	19	15	200
MKS15013	13	9	22	13	51	28	10	200

MKS200

Quick Release safety coupling straight with valve and thread



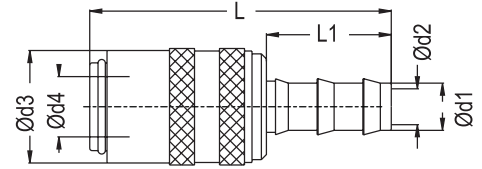
Mat.: Brass, O-ring: Viton

REF	Rp	d2	d3	d4	L	L1	P (bar)	T (°C)	SW
MKS20009M141-5	M14x1,5	6	17	9	48	9	15	200	17
MKS20013M161-5	M16x1,5	9	23	13	52	9	10	200	22

Stainless steel couplings with valve and push to lock

MKE10

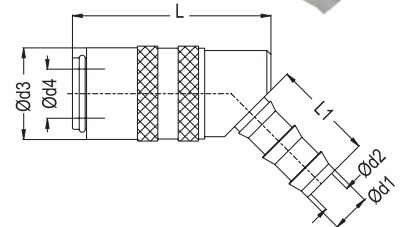
REF	d1	d2	d3	d4	L	L1	P (bar)	T (°C)
MKE1009VPL	10	7	17	9	52	24	10	200
MKE1013VPL	13	10	23	13	64	28	15	200



Stainless steel couplings with valve and push to lock 45°

MKE12

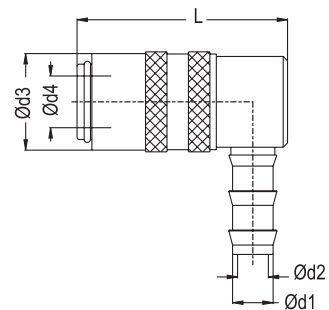
REF	d1	d2	d3	d4	L	L1	P (bar)	T (°C)
MKE1209VPL	10	7	17	9	48	24	10	200
MKE1213VPL	13	10	23	13	55	28	15	200



Stainless steel couplings with valve and push to lock 90°

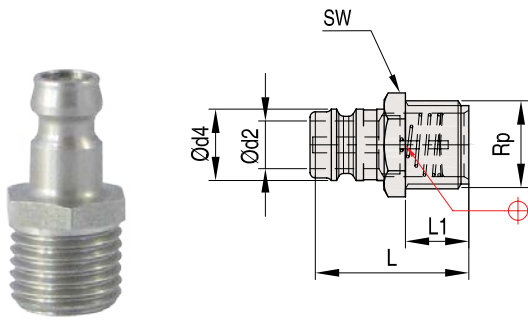
MKE15

REF	d1	d2	d3	d4	L	L1	P (bar)	T (°C)
MKE1509VPL	10	7	17	9	47	24	10	200
MKE1513VPL	13	10	23	13	55	28	15	200



STE

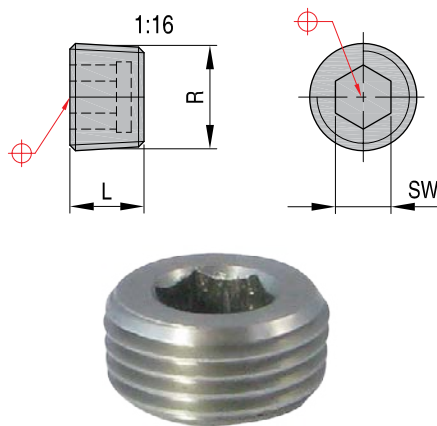
Stainless steel connector plug with valve



REF	Rp	d2	d4	L	L1	P (bar)	T (°C)	SW
STE1109VM14	M14 x 1,5	6	9	30	12	10	200	14
STE1113VM14	M14 x 1,5	9	13	30	12	15	200	14

ANE

Stainless steel pressure plugs



REF	R	L	SW
ANE8	BSPT1/8	8	5
ANE4	BSPT 1/4	10	6
ANE3	BSPT 3/8	11	8
ANE2	BSPT 1/2	13	10
ANEM8	M8 x 0,75	8	4
ANEM10	M10 x 1	8	5
ANEM12	M12 x 1,5	10	6
ANEM14	M14 x 1,5	10	7



MILACRON®

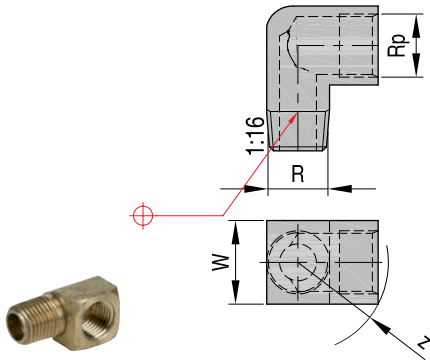
Accessories



200 / 300 / 500 - 90°

90° BSP Elbows

Mat.: Brass

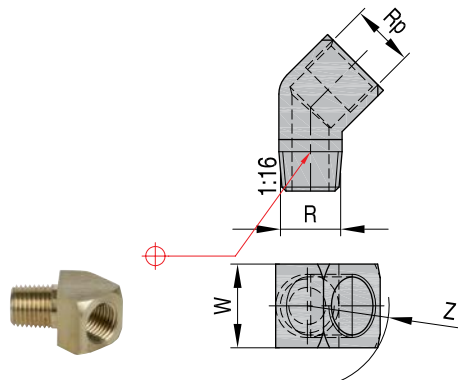


REF	R	Rp	W	Z
20090BSP	1/8" BSPT	1/8" BSP	13	13
30090BSP	1/4" BSPT	1/4" BSP	18	18
50090BSP	1/2" BSPT	1/2" BSPT	26	27

200 / 300 / 500 - 45°

45° BSP Elbows

Mat.: Brass

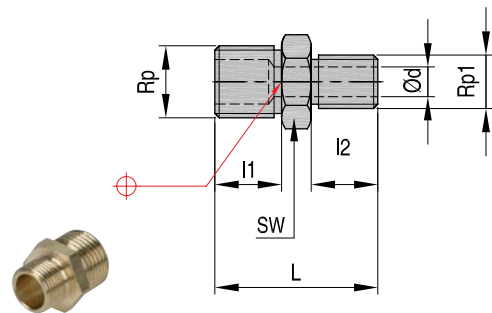


REF	R	Rp	W	Z
20045BSP	1/8" BSPT	1/8" BSP	13	13
30045BSP	1/4" BSPT	1/4" BSP	18	18
50045BSP	1/2" BSPT	1/2" BSPT	24	23

FDN

Double nipples

Mat.: Brass

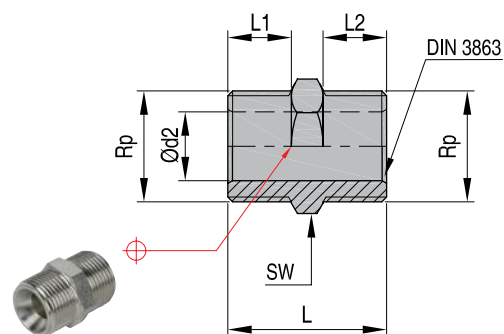


REF	Rp	Rp1	L	l1	l2	d	SW
FDN3814	3/8" BSP	1/4" BSP	27	11	11	6,5	19
FDN3812	1/2" BSP	3/8" BSP	30	12	9	12	22
FDN1212	1/2" BSP	1/2" BSP	33	12	12	14	22

ST16

Double nipples

Mat.: Brass



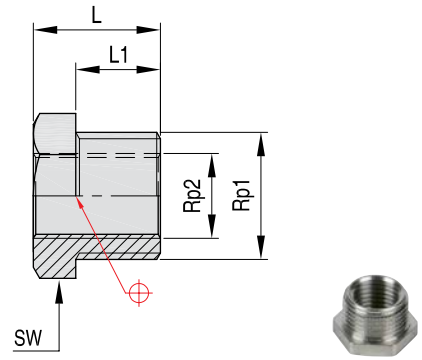
REF	Rp	d2	L	L1	L2	SW
ST16M141-5	M14x1,5	6	23	9	9	17
ST16R1/4	1/4" BSP					
ST16M161-5	M16x1,5	9	23	9	9	19
ST16R3/8	3/8" BSP					
ST16R1/2	1/2" BSP	13	30	12	12	22
ST16M241-5	M24x1,5	13	40	16	16	27
ST16R3/4	3/4" BSP					

Reducing nipples

ST17

Mat.: Brass

REF	Rp1	Rp2	L	L1	SW
ST17M141-5M101	M14x1,5	M10x1	11	7	17
ST17M181-5M1415	M18x1,5	M14x1,5	14	9	22
ST17R1/4R1/8	1/4" BSP	1/8" BSP	11	7	17
ST17R3/8R1/4	3/8" BSP	1/4" BSP	13	9	19
ST17R1/2R3/8	1/2" BSP	3/8" BSP	18	12	24
ST17M241-5M1615	M24x1,5	M16x1,5	24	16	27

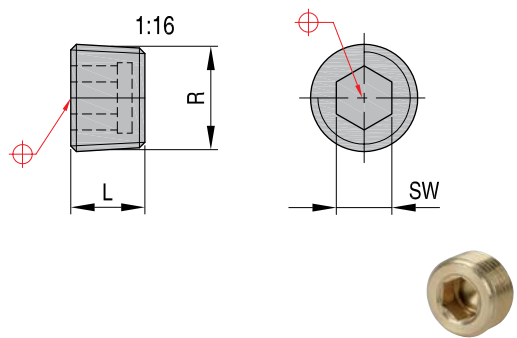


Pressure plugs

AN

Mat.: Brass

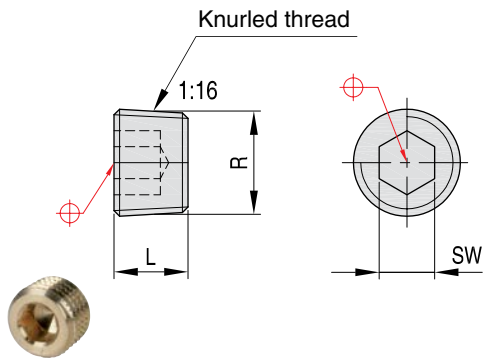
REF	R	L	SW
AN2	1/2" BSPT	10	10
AN3	3/8" BSPT		8
AN4	1/4" BSPT		7
AN8	1/8" BSPT	8	5
ANM8	M8 x 0,75	8	4
AN10	M10 x 1	8	5
ANM12	M12 x 1,5	10	6
ANM14	M14 x 1,5	10	7



V

Knurled Pressure plugs

Mat.: Brass

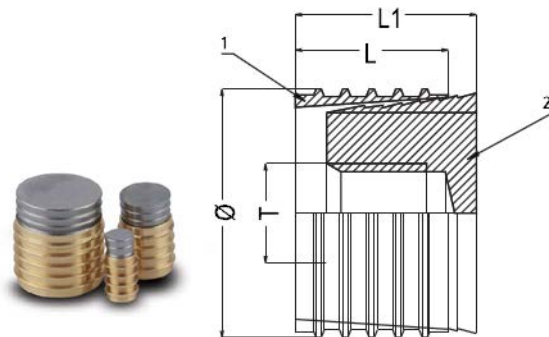


REF	R	L	SW
V360M080-75	M8x0,75	8	4
V361M101	M10x1		5
V362R1/8	1/8" BSPT		5
V365M121-5	M12x1,5	10	6
V363R1/4	1/4" BSPT		7
V366M141-5	M14x1,5		7
V364R3/8	3/8" BSPT		8
V367R1/2	1/2" BSPT		10

SPH

Threadless Pressure Plug

Mat.: MS58 Brass & Stainless Steel

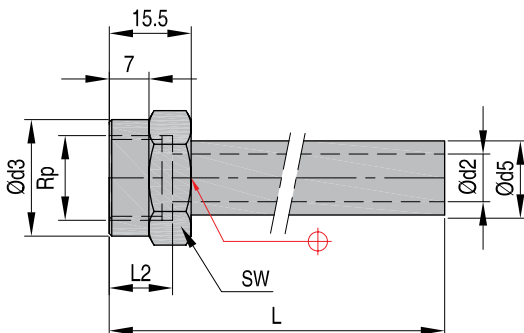


REF	T	Ø	L	L1
SPH06	M3	6	8	11,5
SPH08	M4	8		
SPH10	M6	10	10	14
SPH12	M6	12		
SPH15	M8	15	12	16
SPH16	M8	16		
SPH20	M8	20		

ST155

Extension pipes

Mat.: Brass

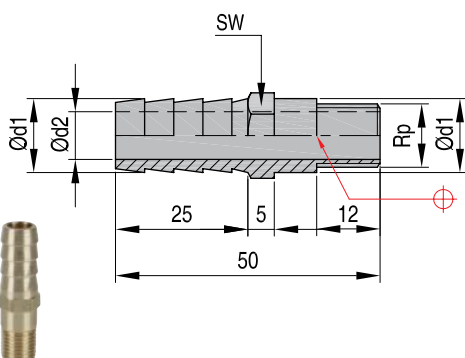


REF	Rp	L	L1	d2	d3	d5	L2	SW
ST155M14159120	M14x1,5	120	7	6	16	10	12	17
ST155M14159240		240						
ST155M161513150	M16x1,5	150						
ST155M161513300		300						

GW-Z

Hose nipples

Mat.: Brass



REF	Rp	d1	d2	SW
GW299Z/M8x0,75	M8 x 0,75	9,5	4,5	12
GW300Z/M10x1	M10 x 1	12,0	6,0	
GW302Z/R1/8	1/8" BSP	7,0	3,5	
GW305Z/R1/8	1/8" BSP	12,0	6,0	
GW315Z/M10	M10	12,0	6,0	
GW320Z/M12x1,5	M12x1,5	11,8	8,0	14
GW307Z/R1/4	1/4" BSP	7,0	3,5	
GW310Z/R1/4	1/4" BSP	14,0	9,0	

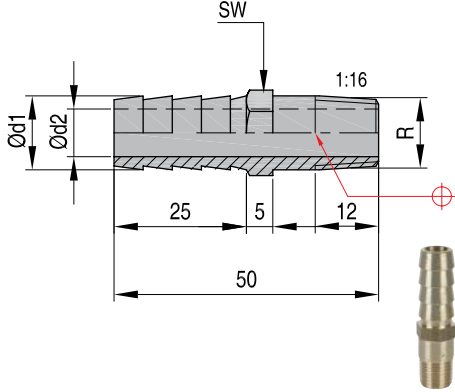
CAD reference point

Hose nipples

GW-K

Mat.: Brass

REF	R	d1	d2	SW
GW301K/M10x1	M10x1	12	6	12
GW306K/R1/8"	1/8" BSPT			
GW311K/R1/4"	1/4" BSPT	14	9	14

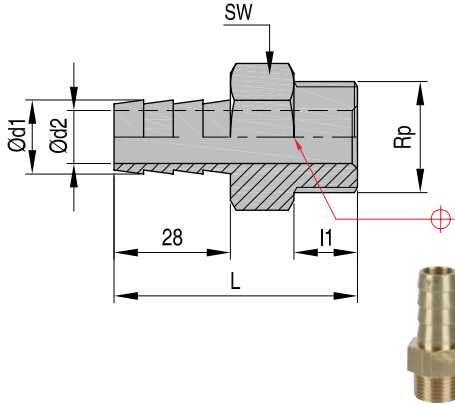


Hose nipples

GW

Mat.: Brass

REF	Rp	d1	d2	L	l1	SW
GW330R3/8	3/8" BSP	14	10	44	10	19
GW340R1/2	1/2" BSP	14	10	46	12	22

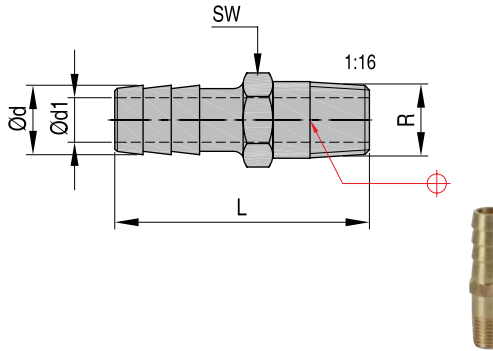


Hose nipples

SST

Mat.: Brass

REF	R	d1	d	L	SW
SST1218K	1/8" BSPT	6	12	50	12
SST121K	M10 x 1				
SST1414K	1/4" BSPT	9	14	54	14

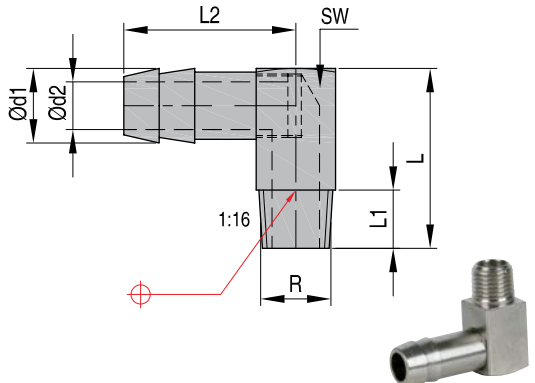


Angle Hose nipples

GW

Mat.: Brass

REF	R	d1	d2	L	L1	L2	SW
GW500M101	M10x1	9	6,0	27	9	23,5	11
GW510R1/8	1/8" BSPT		4,5				
GW520M080-7	M8x0,75	13	9,0	34	9	32,5	15
GW530M141-5	M14x1,5						
GW540R1/4	1/4" BSPT						

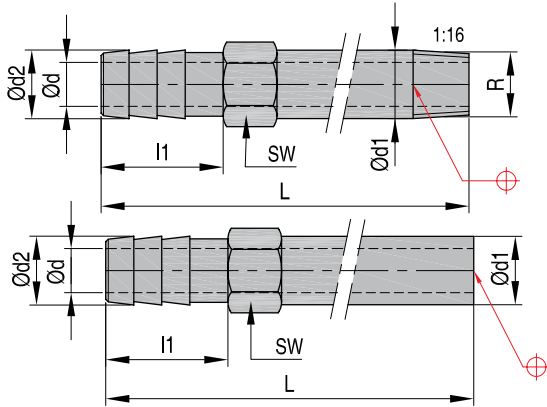


CAD reference point

BSS

Brass extension pipes

Mat.: Brass

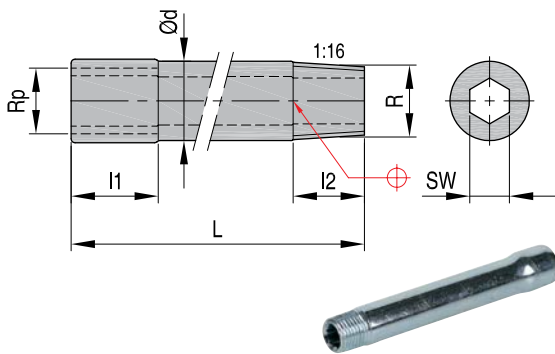


REF	R	L	l1	d	d1	d2	SW
BSS1810	1/8" BSPT	100	17	6	10	10	11
BSS1815	NO THREAD	150					
BSS1825	NO THREAD	250					
BSS1415	1/4" BSPT	150	25	9	14	14	15
BSS1425	NO THREAD	250					

ET

Extension Pipe Hex Key

Mat.: Zinc plated steel

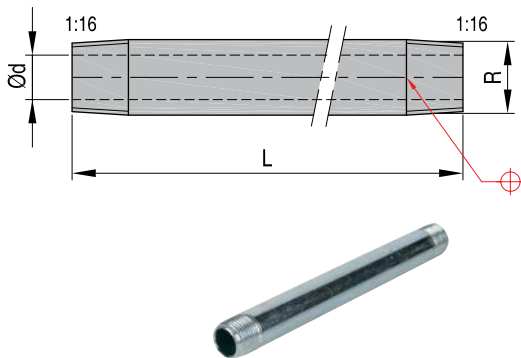


REF	R	Rp	L	d	l1	l2	SW
ET18050	1/8" BSPT	1/8" BSP	50	10	11	9	5
ET18100	1/8" BSPT	1/8" BSP	100				
ET18150	1/8" BSPT	1/8" BSP	150				
ET14050	1/4" BSPT	1/4" BSP	50	14	12	10	8
ET14100	1/4" BSPT	1/4" BSP	100				
ET14150	1/4" BSPT	1/4" BSP	150				

VL

Extension pipes

Mat.: Zinc plated steel

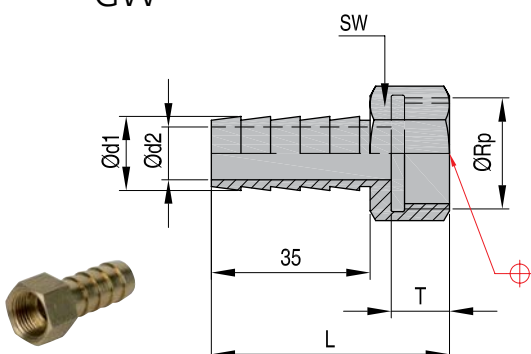


REF	R	L	d
VL18x50	1/8" BSPT	50	6
VL18x100		100	
VL18x150		150	
VL18x200		200	
VL14x50	1/4" BSPT	50	9
VL14x100		100	
VL14x150		150	
VL14x200		200	
VL38x100	3/8" BSPT	100	12
VL38x150		150	
VL38x200		200	
VL12x100	1/2" BSPT	100	16
VL12x150		150	
VL12x200		200	

GW

Hose nipples

Mat.: Brass



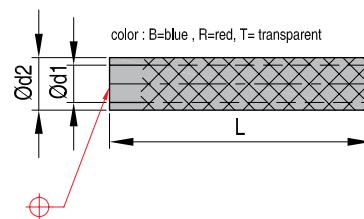
REF	Rp	d1	d2	L	T	SW
GW350R3/8	3/8" BSP	14	10	43	9	19
GW360R1/2	1/2" BSP	14	10	45	11	24

Hoses

GS 1090

Mat.: Nylon reinforced
R* = bending radius

REF L	d1	d2	Pmax. 20°C	Pmax. 40°C	Pmax. 60°C	R*	L
GS10906063	6	12	22bar	16bar	8bar	R min=36 mm	25
GS10908083	8	13	20bar	14bar	7bar	R min=54 mm	50
GS10909103B	10	15	20bar	14bar	7bar	R min=74 mm	25
GS10909103R							
GS1090131245B	12,5	18	18bar	12bar	6bar	R min=90 mm	25
GS1090131245R							

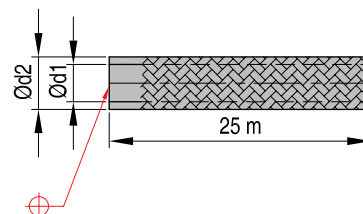


Hoses (not for vacuum)

VM 200

Mat.: Viton
R* = bending radius
Not suited for use with oil!

REF	d1	d2	Pmax.	T (°C)	R*
VM20009	9	13,5	20bar	200	R min=50 mm
VM20013	13	18,0	20bar	200	R min=60 mm

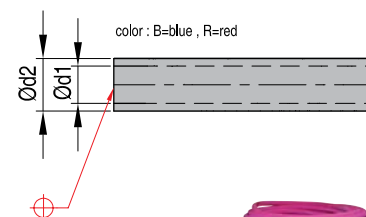


"Push-to-Lock" Hoses

PTLH

Mat.: Mixture of synthetic elastomers, black smooth
R* = bending radius

REF	d1	d2	Pmax.	T (°C)	Info	R*
PTLH10R	3/8"	16	20bar	-35->85	20m roll	R min=70 mm
PTLH10B						
PTLH13R	1/2"	19	20bar	-35->85	20m roll	R min=84 mm
PTLH13B						

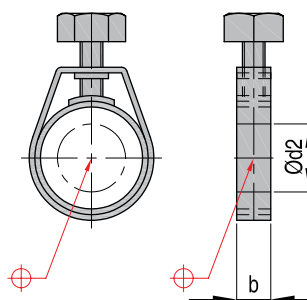


Hose clamps

US 1600

Mat.: St (CrNi)

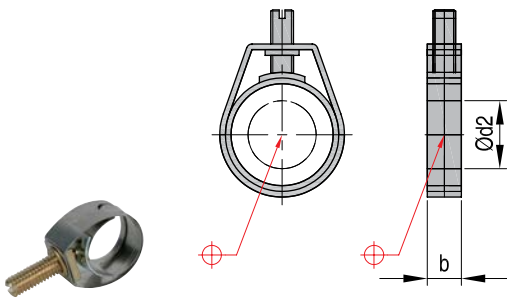
REF	d2	b
US16001	7-12	11
US16002	9-14	
US16003	10-15	
US16004	12-17	
US16005	14-19	
US16006	16-21	
US16007	17-22	
US16008	20-25	



US 1650

Hose clamps

Mat.: St (CrNi)

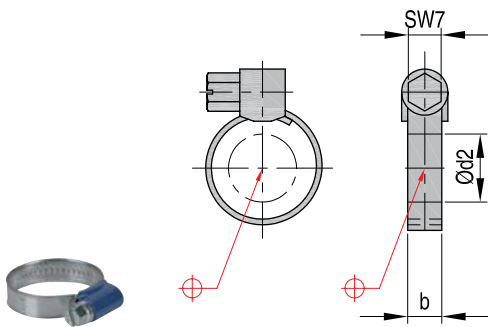


REF	d2	b
US16501	7-12	10
US16502	9-14	11
US16503	10-15	
US16504	12-17	
US16505	14-19	
US16506	16-21	
US16507	17-22	
US16508	20-25	

US 1700

Hose clamps

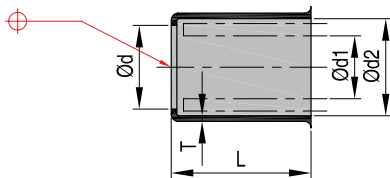
Mat.: St DIN 3017



REF	d2	b
US17001	8-12	9
US17002	10-16	
US17003	12-20	
US17004	16-25	
US17005	20-32	

MH 1

Press-fit assembly sleeves

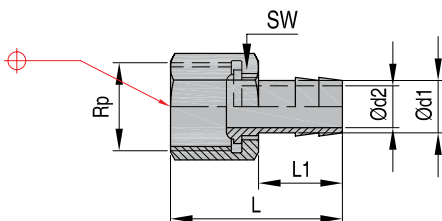


REF	d1	d2	d	L	T
MH109155	9	15,5	12	20	0,8
MH113195	13	19,0	14	26	0,9
MH11322	13	23,0	17	32	0,9

ST 19

2-piece hose nipple for MH1

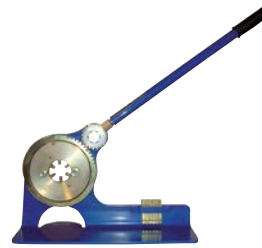
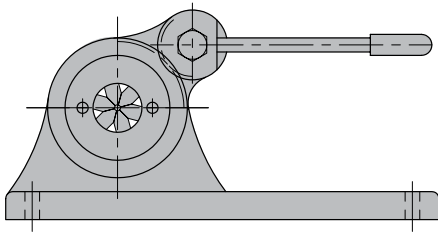
Mat.: Brass



REF	Rp	d1	d2	L	L1	SW
ST1909M141-5	M14x1,5	9	6	34,5	19	17
ST1909R1/4	1/4" BSP					
ST1913M161-5	M16x1,5	13	9	41,0	27	22
ST1913R3/8	3/8" BSP					

Hose assembly tool

SM 1



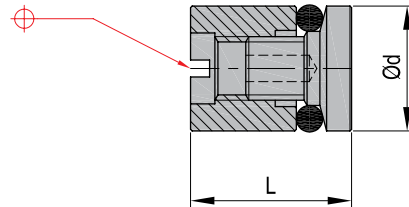
REF
SM1

Threadless turn off Pressure plugs

WV

Mat.: Brass, O-ring: Viton

REF	L	d	BORE HOLE d H13	Installation Key
WV006	15	6	6	WV106 / WV306
WV007	15	7	7	WV107 / WV307
WV008	15	8	8	WV108 / WV308
WV010	15	10	10	WV110 / WV310
WV012	15	12	12	WV112 / WV312



Installation key, plug extractor incl.

WV

Mat.: Tool steel

REF	for plug d	L
WV106	6	150
WV107	7	
WV108	8	
WV110	10	
WV112	12	
WV306	6	300
WV307	7	
WV308	8	
WV310	10	
WV312	12	

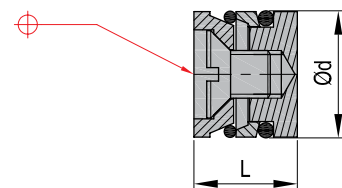


Threadless Pressure plugs

KN 105

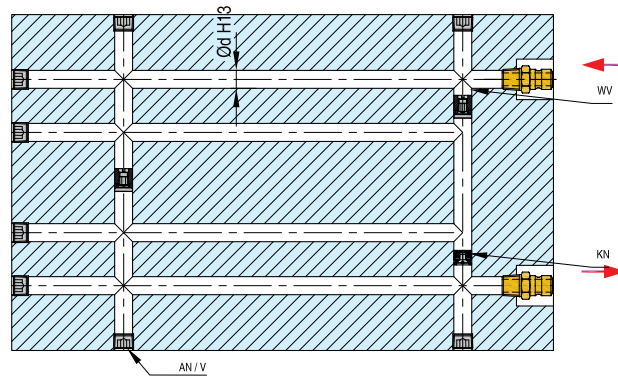
Mat.: Brass, O-ring: Viton

REF	L	d	BORE HOLE d H13	Pmax	T (°C)
KN10506	10	6	6	10	200
KN10507	10	7	7		
KN10508	11	8	8		
KN10510	11	10	10		
KN10512	11	12	12		
KN10514	13	14	14		
KN10516	13	16	16		



CAD reference point

Installation Instructions KN-WV-AN-V

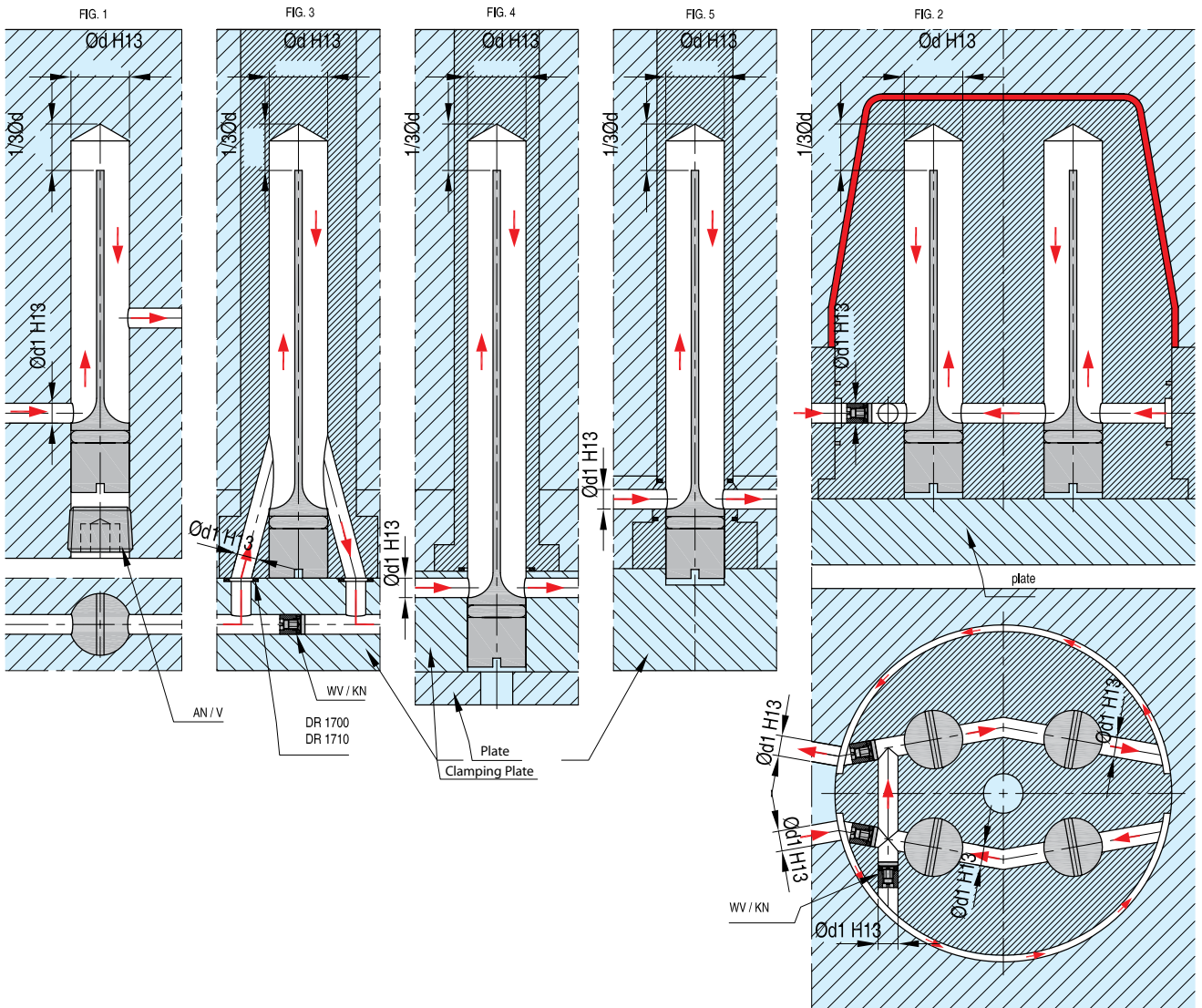
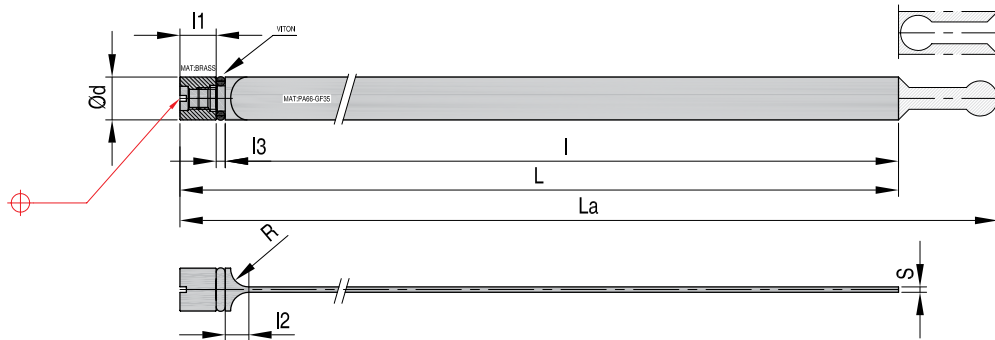


Baffle ribs

WV 700

T Max.: 200°C

REF	d	La	L	I	I1	I2	I3	S	R	o-ring	d1 H13	Installation Key
WV70006	6	200	208	200	6,0	3,5	2,0	1,0	2,4	2x	4	WV106 / WV306
WV70006320		320	313	305								
WV70008	8	200	210	200	6,0	3,5	2,0	1,0	3,4	2x	5	WV108 / WV308
WV70008320		320	315	305		4,5						
WV70010	10	200	209	200	7,0	5,0	3,0	1,5	3,5	1x	6	WV110 / WV310
WV70010320		320	315	305								
WV70012	12	200	212	200	9,0	6,0	3,0	1,5	4,5	1x	8	WV112 / WV312
WV70012320		320	316	305								
WV70014	14	200	213	200	10,5	7,5	2,5	1,5	5,5	1x	10	WV112 / WV312
WV70014320		320	318	305								

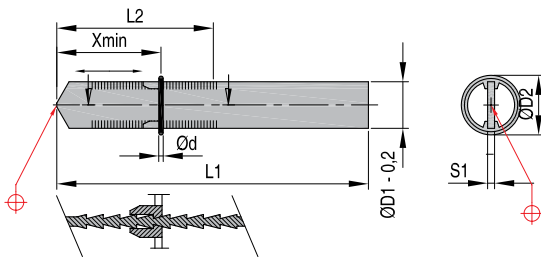


CAD reference point

BBP - BBJ

Plastic baffle ribs

Mat.: High temperature resistant plastic

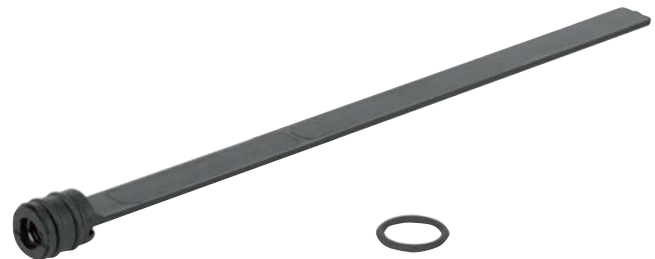
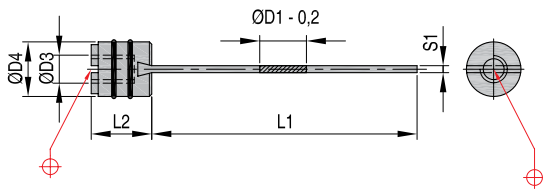


REF	D1	D2	L1	L2	X min.	S1	S2	d	REF. O-RING (VITON 200°C)
BBP0001	10	17	220	55	12	1,5	2,0	2,4	BBJ0001
BBP0002	15	22	300	70	16	1,8	2,0	2,4	BBJ0002
BBP0003	20	28	350	90	20	2,0	2,4	2,9	BBJ0003
BBP0004	25	33	380	115	24	2,2	2,4	2,9	BBJ0004

BBP - BBJ

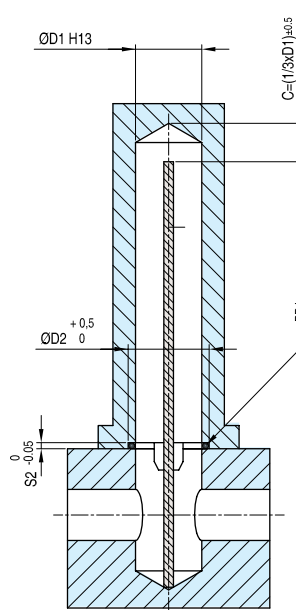
Plastic baffle ribs

Mat.: High temperature resistant plastic

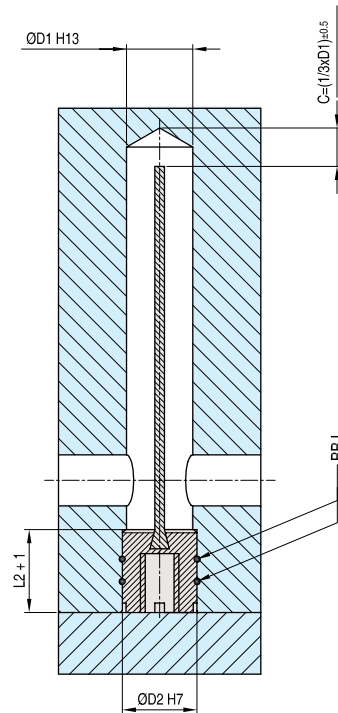


REF	D1	D2	D3	D4	L1	L2	S1	REF. O-RING (VITON 200°C)
BBP0101	10	12	M6	11,7	180	13	1,5	BBJ0101
BBP0102	15	16	M8	15,7	250	16	1,8	BBJ0102
BBP0103	20	22	M12	21,7	300	20	2,0	BBJ0103
BBP0104	25	26	M16	25,7	390	22	2,2	BBJ0104

Installation Instructions BBP



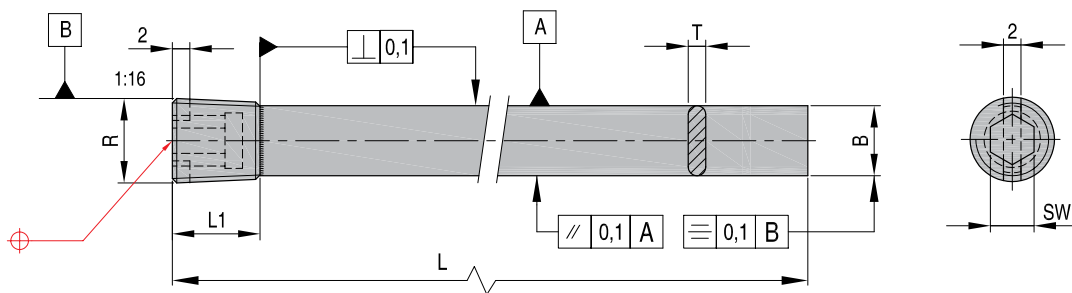
Installation Instructions BBP



BB

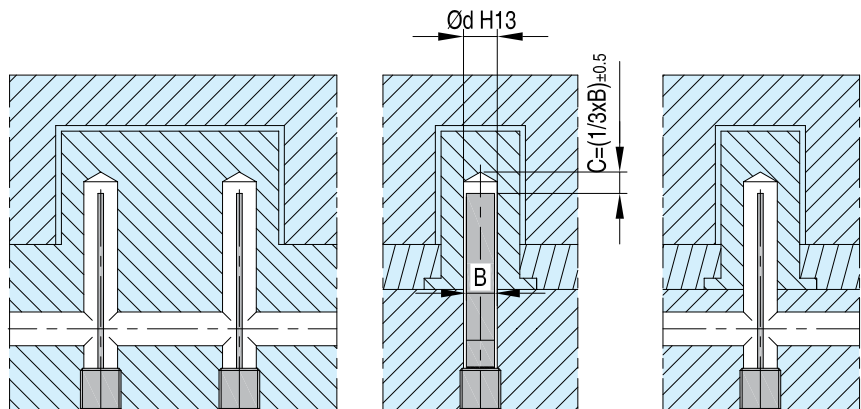
Brass plug baffles

Mat.: Brass



REF	R	B	L	L1	T	d	SW
BB-100-1/8	1/8" BSPT	8,2	104	8	1,6	8,5	5
BB-200-1/8			204				
BB-125-1/4	1/4" BSPT	11,2	131	10	2,4	11,5	7
BB-250-1/4			258				
BB-150-3/8	3/8" BSPT	14,7	156	10	2,4	15,0	8
BB-300-3/8			309				
BB-200-1/2	1/2" BSPT	18,2	207	10	2,4	18,5	10
BB-400-1/2			410				
BB-300-3/4	3/4" BSPT	23,2	309	12	3,2	23,5	12
BB-500-3/4			512				

Brass Plug Baffles are constructed entirely of high quality brass with blades brazed to the plugs for long, dependable service. They provide a high pressure seal through a deliberate difference of taper between the plug and the tapped hole. Spiral baffles improve cooling balance by creating turbulent action in the channel providing efficient coolant movement.

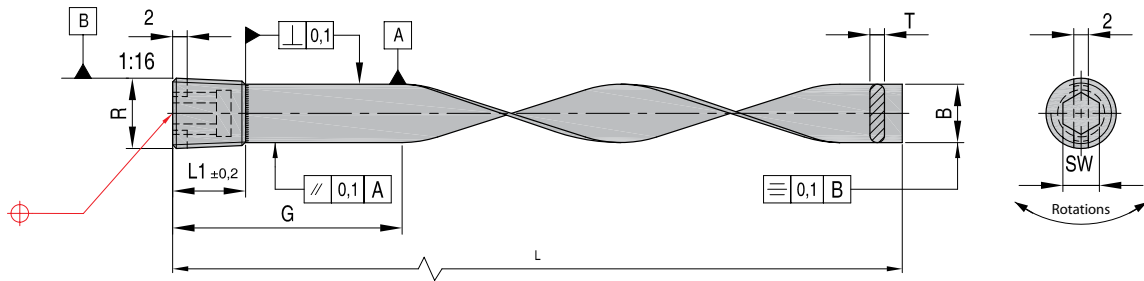


CAD reference point

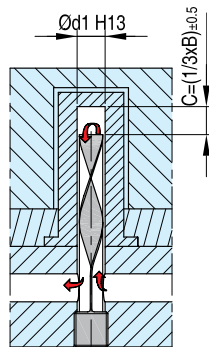
Spiral brass plugs baffles

BBS

Mat.: Brass



REF	R	G	B	L	L1	T	d1	ROTATION	SW
BBS-100-1/16	1/16" BSPT	51	6,2	102	8	1,6	6,5	360°	4
BBS-200-1/16		102		202				540°	
BBS-100-1/8	1/8" BSPT	51	8,2	102	8	1,6	8,5	360°	5
BBS-200-1/8		102		202				540°	
BBS-125-1/4	1/4" BSPT	51	11,2	127	10	2,4	11,5	360°	7
BBS-250-1/4		102		252				540°	
BBS-150-3/8	3/8" BSPT	51	14,7	152	10	2,4	15,0	360°	8
BBS-300-3/8		102		302				540°	
BBS-200-1/2	1/2" BSPT	76	18,2	203	10	2,4	18,5	360°	10
BBS-400-1/2		127		402				540°	
BBS-300-3/4	3/4" BSPT	102	23,2	302	12	3,2	23,5	360°	12
BBS-500-3/4		153		502				540°	
BBS-400-1	1" BSPT	127	28,2	402	12	3,2	28,5	360°	17
BBS-600-1		203		602				540°	

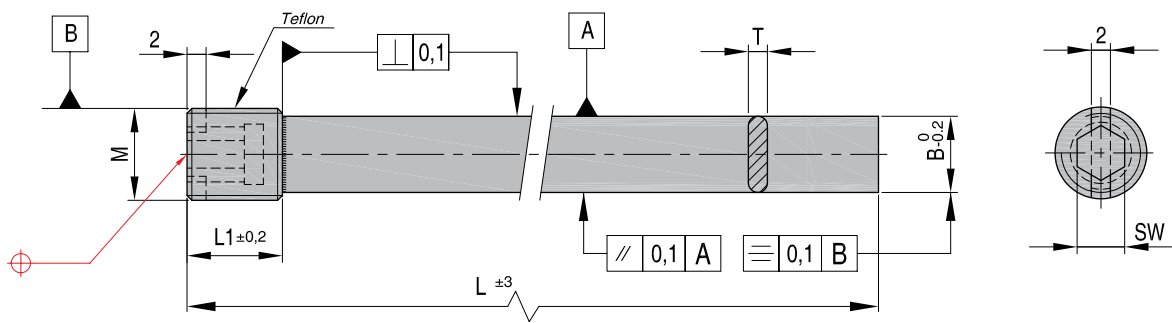


CAD reference point

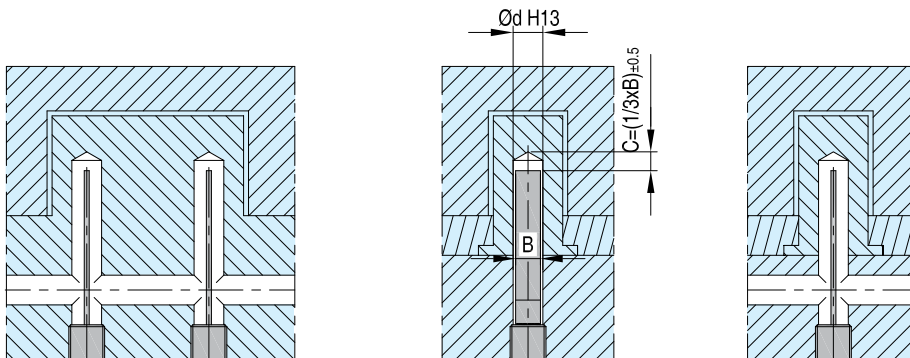
BB

Brass plug baffles

Mat.: Brass



REF	M	SW	B	L	L1	T	d
BB-100-M8x0,75	M8x0,75	4	5,8	104	8	1,6	6
BB-200-M8x0,75				204			
BB-100-M10x1	M10x1	5	7,8	104	8	1,6	8
BB-200-M10x1				204			
BB-125-M12x1,5	M12x1,5	6	9,8	129	8	2,0	10
BB-250-M12x1,5				254			
BB-150-M16x1,5	M16x1,5	8	13,8	154	10	2,4	14
BB-300-M16x1,5				304			
BB-150-M20x1,5	M20x1,5	10	17,8	154	10	2,4	18
BB-200-M20x1,5				304			
BB-300-M20x1,5				204			
BB-400-M20x1,5				404			
BB-150-M24x2	M24x2	12	19,8	154	12	2,5	20
BB-300-M24x2				304			

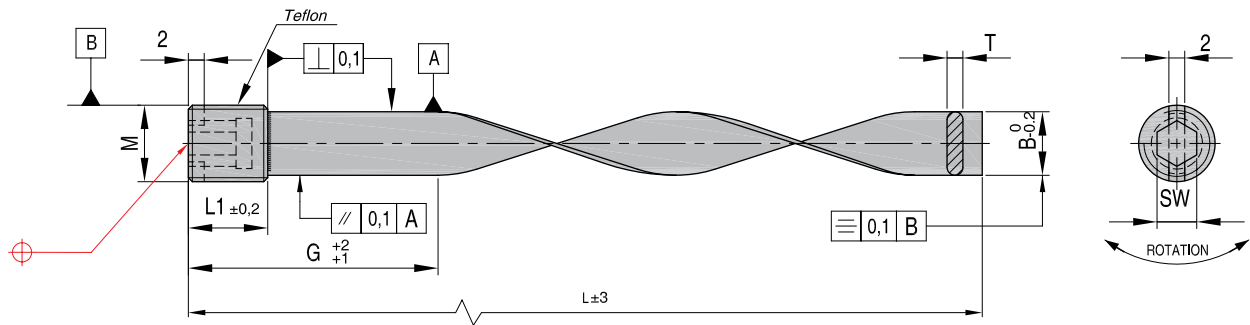


CAD reference point

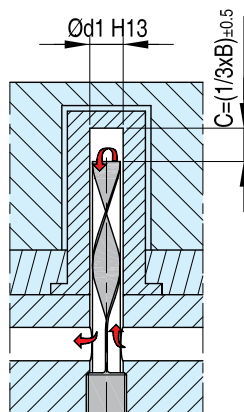
Spiral brass plugs baffles

BBS

Mat.: Brass



REF	M	G	SW	B	L	L1	T	2D1	Rotation
BBS100M8	M8x0,75	50	4	5,8	102	8	1,6	6	360°
BBS200M8		100			202				540°
BBS300M8		150			302				720°
BBS100M10	M10x1	50	5	7,8	102	8	1,6	8	360°
BBS200M10		100			202				540°
BBS300M10		150			302				720°
BBS125M12	M12x1,5	50	6	9,8	127	8	2,0	10	360°
BBS250M12		100			252				540°
BBS150M16	M16x1,5	50	8	13,8	152	10	2,4	14	360°
BBS300M16		100			302				540°
BBS150M20	M20x1,5	50	10	17,8	152	10	2,4	18	360°
BBS300M20		100			302				540°
BBS150M24	M24x2	50	12	19,8	152	12	2,5	20	180°
BBS300M24		100			302				540°

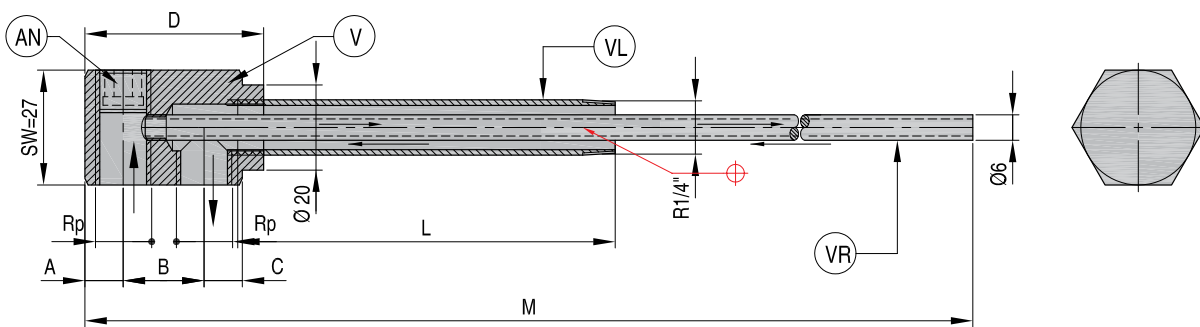


CAD reference point

V

Cascade water junctions

Mat.: Brass



REF	Rp	M	A	B	D	C	L
V485	1/8"	356	9	19	42	9	50
V4810							100
V4815							150
V4820							200
V445	1/4"	356	9	19	42	9	50
V4410							100
V4415							150
V4420							200
V585	1/8"	362	9	26	54	12	50
V5810							100
V5815							150
V5820							200
V545	1/4"	362	9	26	54	12	50
V5410							100
V5415							150
V5420							200

Cascade Water Junctions are ideal for cooling plastics molds and die cast dies where drilled waterlines through the block are not possible due to interference with ejector pins, sprue puller pins, etc.

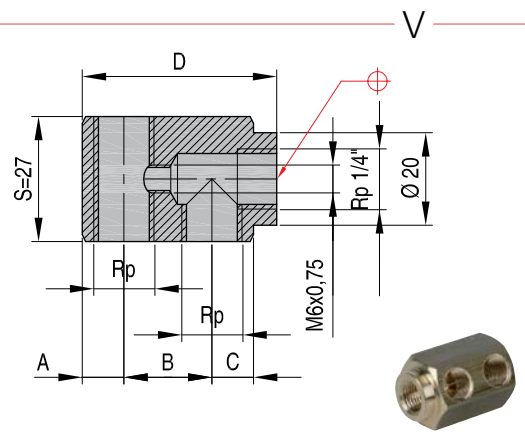
The brass tube has the rigidity to maintain uniform spacing inside the water channel and is threaded into the body for firm support. Waterlines may be connected to the same side or opposing sides of the brass hexagonal body.

CAD reference point

Body

Mat.: Brass

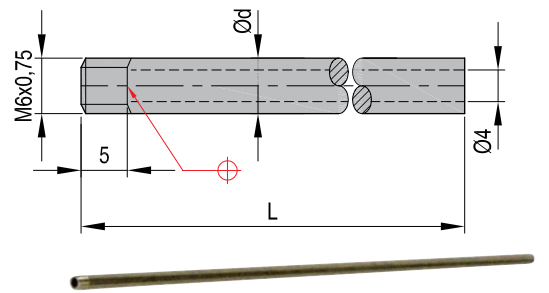
REF	R _p	A	B	D	C
V48	1/8" BSP	9	19	42	9
V44	1/4" BSP				
V58	1/8" BSP	9	26	54	12
V54	1/4" BSP				



Feed pipes

Mat.: Brass

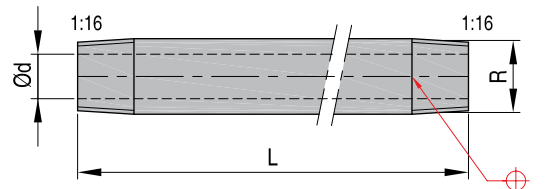
REF	d	L
VR6340	6	340



Extension pipes

Mat.: Zinc plated

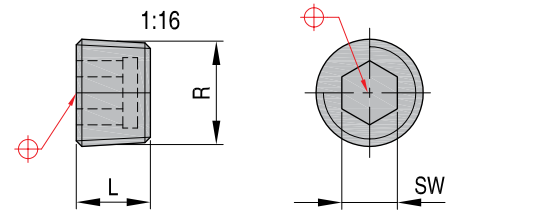
REF	R	d	L
VL14x50	1/4" BSPT	9	50
VL14x100			100
VL14x150			150
VL14x200			200



Pressure plugs

Mat.: Brass

REF	R	L	SW
AN8	1/8" BSPT	8	5
AN4	1/4" BSPT	10	7

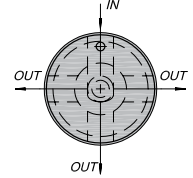
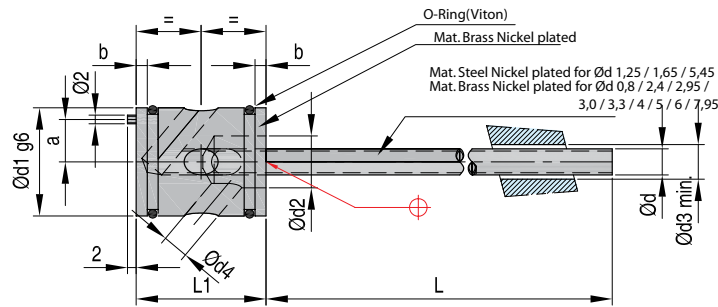
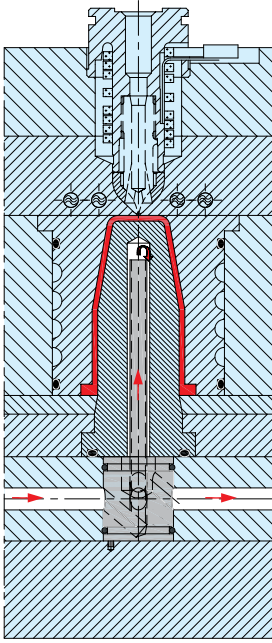


CAD reference point

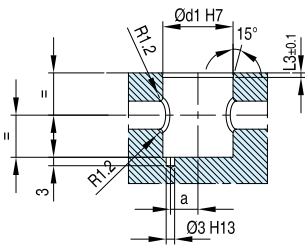
T 2000

Cascade water junctions

Mat.: Tube: Steel Nickel plated
Cylinder: Mat.: Brass Nickel plated



Note: T max: 200° C

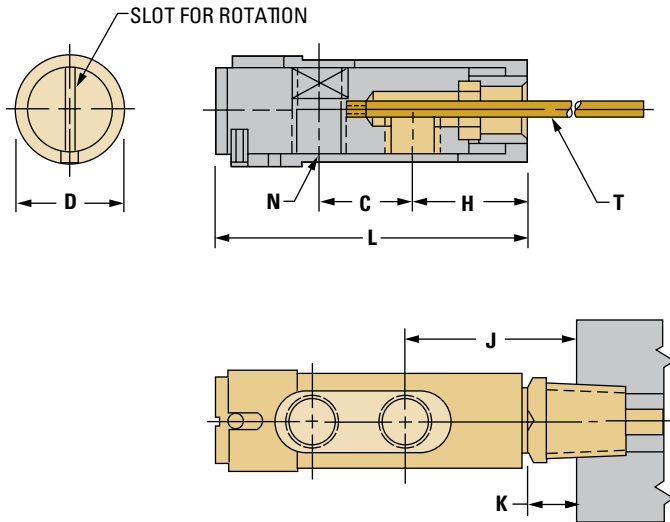


REF	d1	d	L	d2	d4	d3	L1	L3	a	b	REF O-RINGS							
T2000100-80160	10	0,80	160	4,2	2	1,0	15	1,2	3,0	1,1	DR171006-002-00							
T2000101-25160		1,25				1,5					DR171006-002-00							
T2000101-65160		1,65				2,0					DR171006-002-00							
T2000102-40160		2,40				3,2					DR171006-002-00							
T2000103-00160		3,00				4,0					DR171006-002-00							
T2000160-80160	16	0,80	160	6,0	3	1,0	20	1,6	5,5	2,2	DR171012-002-00							
T2000160-80300		0,80	300			1,0					DR171012-002-00							
T2000161-25160		1,25	160			1,5					DR171012-002-00							
T2000161-25300		1,25	300			1,5					DR171012-002-00							
T200016165160		1,65	160			2,0					DR171012-002-00							
T200016165300		1,65	300			2,0					DR171012-002-00							
T2000162-40160		2,40	160			3,2					DR171012-002-00							
T2000162-40300		2,40	300			3,2					DR171012-002-00							
T2000162-95160		2,95	160			4,0					DR171012-002-00							
T2000162-95300		2,95	300			4,0					DR171012-002-00							
T2000163-30160		3,30	160			4,5					DR171012-002-00							
T2000163-30300		3,30	300			4,5					DR171012-002-00							
T2000254-00160		25	4,00			160					12,0	6	5,0	30	1,6	9,8	3,4	DR171021-002-00
T2000254-00300			4,00			300							5,0					DR171021-002-00
T2000255-00160			5,00			160							6,0					DR171021-002-00
T2000255-00300	5,00		300	6,0	DR171021-002-00													
T2000255-45160	5,45		160	7,0	DR171021-002-00													
T2000255-45300	5,45		300	7,0	DR171021-002-00													
T2000256-00160	6,00		160	8,0	DR171021-002-00													
T2000256-00300	6,00		300	8,0	DR171021-002-00													
T2000257-95160	7,95		160	10,0	DR171021-002-00													
T2000257-95300	7,95		300	10,0	DR171021-002-00													

CAD reference point



- Compact design
- 360° seal – leak proof
- Accurate predetermination of port locations
- Easy “one-piece” installation and removal



For cascade-type cooling applications, the Jiffy-Tite Cascade

Water Junctions provide the utmost in versatility and ease of use. Their compact design makes them ideal for cooling inserted cores or spot cooling in hard to reach areas of molds or dies. They can be rotated a full 360° without affecting their positive Jiffy-Tite seal and are easily connected and disconnected – even when installed internally.

Final location of the ports on the body of the Water Junction can be accurately predetermined, thus ensuring proper lateral alignment with pipe clearance holes. Waterlines may be connected to the same side or opposing sides of the Water Junction. A slot on the end of the Water Junction body indicates port position and can be turned with a screwdriver to align the ports with pipe clearance holes.

The brass tube has the rigidity to maintain uniform spacing inside the water channel and is threaded into the body for firm support.

Jiffy-Tite® Cascade Water Junction (JW)

ITEM NUMBER	D	L	C	H	N N.P.T. (3 PLACES)	T 18" LONG TUBE SUPPLIED		
						O. D.	I. D.	THREAD
JW220	.70	2.12	.69	.77	1/8	.190	.126	NO. 1-32
JW320	.96	2.38	.69	1.03	1/8	.250	.170	1/4-28
JW321	.96	2.69	1.00	1.03	1/8	.250	.170	1/4-28
JW541	1.19	3.13	1.00	1.28	1/4	.437	.307	1/16-20

All dimensions are in INCHES.

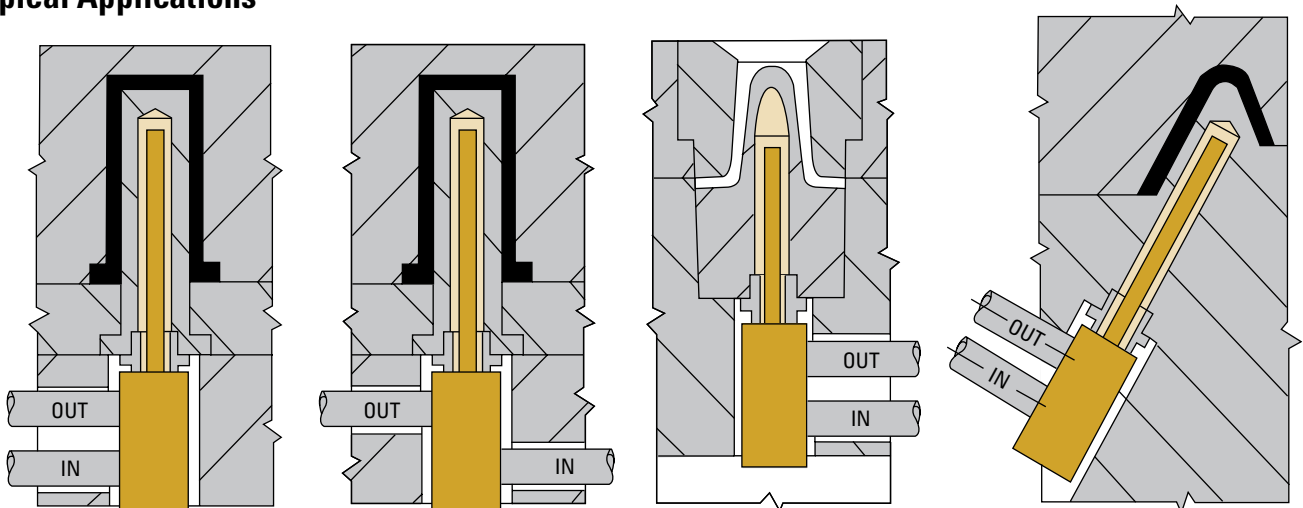
REFERENCE DIMENSIONS FOR PORT LOCATION				
WATER JUNCTION ITEM NO	DME JIFFY-SERIE	MATING JIFFY-TITE PLUG	J	K
		JP252	1.24	.46
		JP253	1.28	.50
JW320 AND JW321	N9	JP352	1.48	.42
		JP353	1.51	.45
		JP354	1.63	.56
JW541	N16	JP554	1.96	.66
		JP556	2.02	.72

All dimensions are in INCHES.

Notes:

1. Bubbler Tubes may be used as replacements in Water Junctions above.
2. The 200, 300 and 500 Series Water Junctions are equipped with 200, 300 and 500 series Viton seals respectively, rated at 200 psi and suitable for temperatures up to 400 °F.

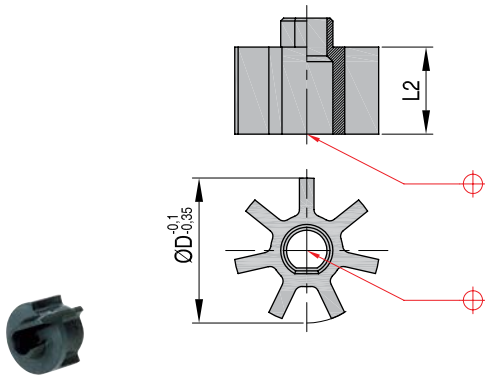
Typical Applications



CAD reference point

WWK

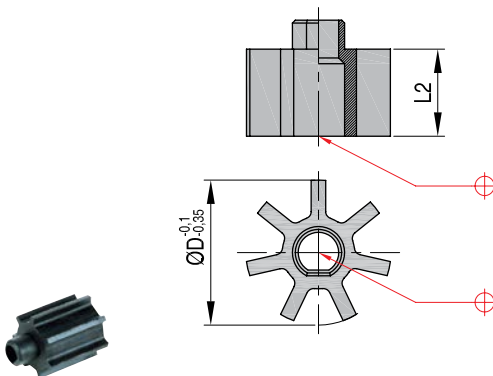
Head



REF	D	L1
WWK020	20	25
WWK025	25	
WWK028	28	
WWK032	32	
WWK035	35	
WWK040	40	
WWK045	45	
WWK050	50	

WWM

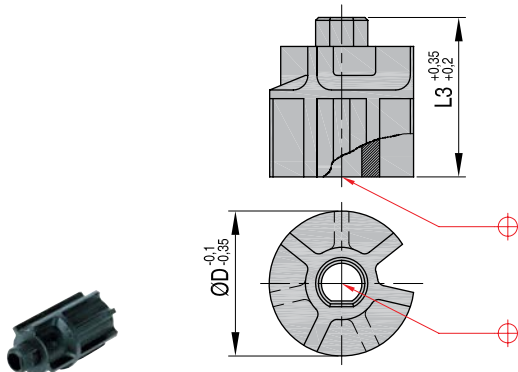
Center piece



REF	D	L2
WWM020	20	30
WWM025	25	
WWM028	28	
WWM032	32	
WWM035	35	
WWM040	40	
WWM045	45	
WWM050	50	

WWF

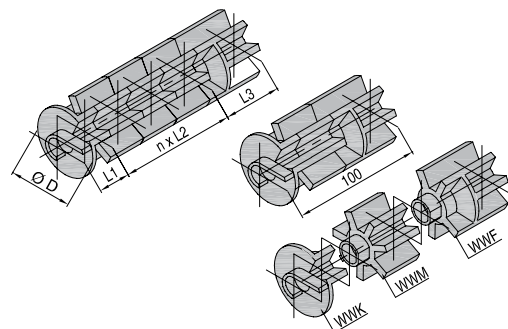
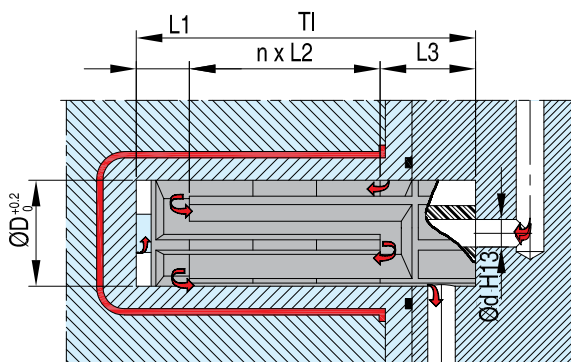
Base



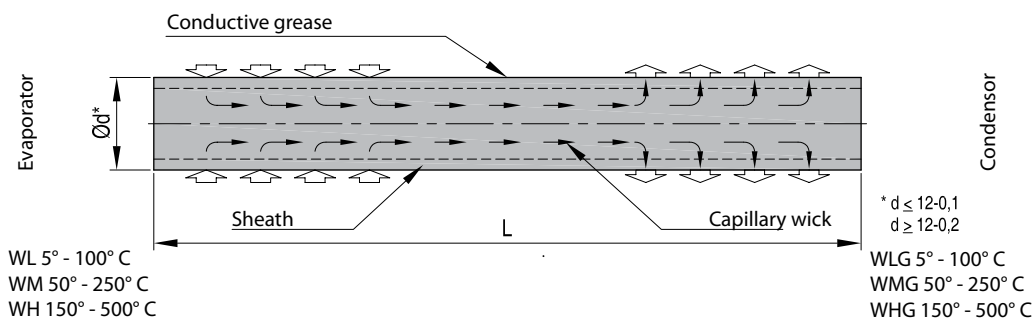
REF	D	L3	d
WWF020	20	45	10
WWF025	25		12
WWF028	28		
WWF032	32		14
WWF035	35		
WWF040	40		
WWF045	45		
WWF050	50		

WWK-WWM-WWF

Plastic cooling cores



⊕ CAD reference point



General description

The **DME** Heat Transfer Rods are static devices with very high thermal conductivity (over a thousand times greater than copper rods). It allows an important transmission of thermal power with a very low temperature gradient (a few degrees only).

Operation

DME Heat Transfer Rods work on the basis of latent heat with a difference of only about 10°C in temperature between each end. At the "hot" end of the tube, the liquid evaporates and absorbs energy. The resulting vapour moves to the "cold" end of the tube, where it condenses and releases energy. The liquid then flows back to the other end by gravity and capillary action. The latter occurs over a mesh inside the rod.

DME Service

DME provides recommendations on the most efficient use of Heat Transfer Rods in injection moulding or diecasting applications. In most cases, an application analysis will determine the estimated cycle time.

Just fill out and fax or email the attached questionnaire. Our application engineers will submit a suitable quotation by return.

Application

Heat Transfer Rods are used in the following industries:

- Die casting
- Injection moulding for:
 - a) Cooling (molds)
 - b) Pre-heating of material
 - c) Leveling of service temperatures

Advantages

1. Simplified mold construction

The **DME** Heat Transfer Rods are used in cores, core slides, cavities and other areas of a mold or die requiring cooling or controlled temperatures. In addition, the ability to locate Heat Transfer Rods in areas inaccessible to other cooling devices can further simplify the overall mold design.

In most of the cases, the machining and construction time required for the mould is reduced, thus lowering mould making costs.

2. Faster cycle times

The cooling lines, throughout the entire mould can be larger in diameter, permitting a higher cooling velocity. A larger volume of fluid flowing through the cooling lines results in a lower overall coolant temperature rise.

The ability to transfer heat away from the otherwise inaccessible areas improves the overall cooling rate and reduces the cycle time.

3. Improved product quality

The Heat Transfer Rod transfers heat to the coolant, air or mold components, it also dissipates heat evenly along its entire length. This isotherm action provides faster and more uniform cooling, thus eliminating hot spots which cause sink marks, pulling and spotting.

4. Reduced maintenance costs

The increased waterline diameter, coolant velocity and heat capacity eliminate scale formation. Consequently, cooling system maintenance and overall operating costs are almost nil.

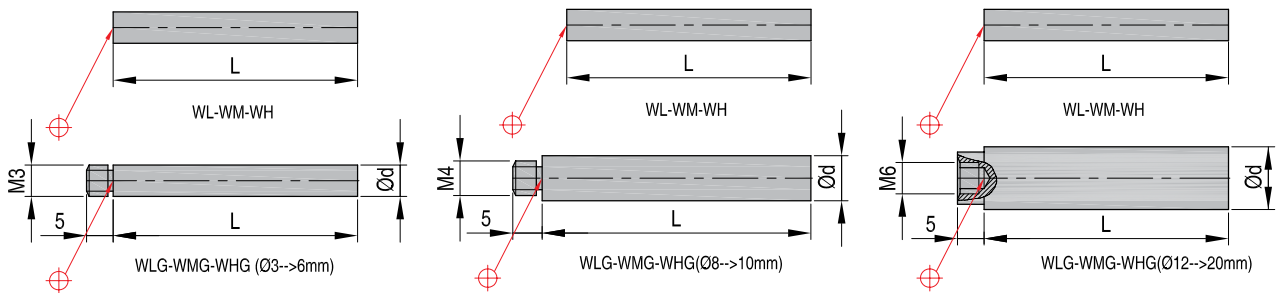
5. Retrofit in existing molds and dies

In addition to their many applications Heat Transfer Rods have been retrofitted as replacement parts for bubblers or baffles and provide heat transfer in previously uncooled areas.



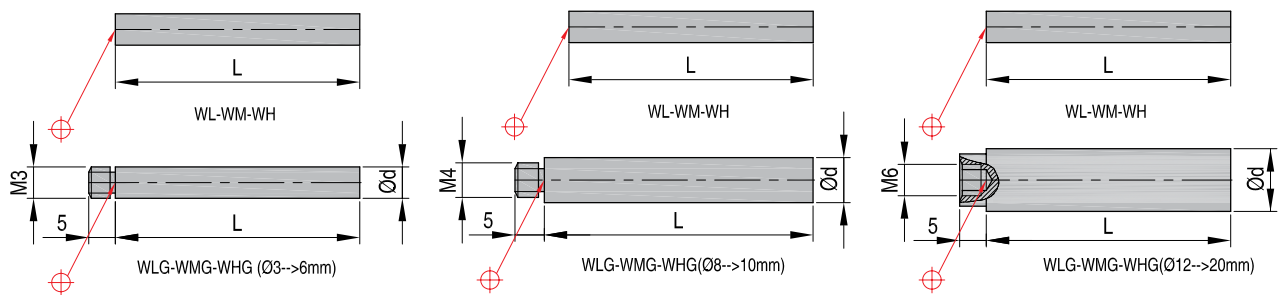
WL(G)

Heat Transfer Rods



REF(G)	d	L	REF(G)	d	L	REF(G)	d	L
WL250	2	50	WL680	6	80	WL1290	12	90
WL265		65	WL690		90	WL12120		120
WL280		80	WL6120		120	WL12160		160
WL290		90	WL6160		160	WL12200		200
WL2120		120	WL6200		200	WL12270		270
WL350	3	50	WL6270	8	270	WL12320	16	320
WL365		65	WL850		50	WL1650		50
WL380		80	WL865		65	WL1665		65
WL390		90	WL880		80	WL1680		80
WL3120		120	WL890		90	WL1690		90
WL450	4	50	WL8120	10	120	WL16120	20	120
WL465		65	WL8160		160	WL16160		160
WL480		80	WL8200		200	WL16200		200
WL490		90	WL8270		270	WL16270		270
WL4120		120	WL1050		50	WL16320		320
WL4160	5	160	WL1065	12	65	WL2050	20	50
WL4200		200	WL1080		80	WL2065		65
WL550		50	WL1090		90	WL2080		80
WL565		65	WL10120		120	WL2090		90
WL580		80	WL10160		160	WL20120		120
WL590	6	90	WL10200	12	200	WL20160	20	160
WL5120		120	WL10270		270	WL20200		200
WL5160		160	WL10320		320	WL20270		270
WL5200		200	WL1250		50	WL20320		320
WL650		50	WL1265		65			
WL665	65	WL1280	80					

CAD reference point



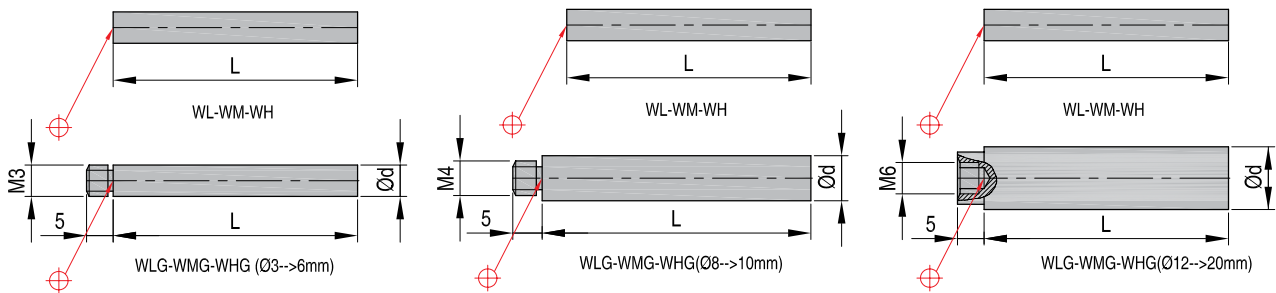
REF(G)	d	L	REF(G)	d	L	REF(G)	d	L
WM250	2	50	WM680	6	80	WM1290	12	90
WM265		65	WM690		90	WM12120		120
WM280		80	WM6120		120	WM12160		160
WM290		90	WM6160		160	WM12200		200
WM2120		120	WM6200		200	WM12270		270
WM350		3	50		WM6270	270		WM12320
WM365	65		WM850	8	50	WM1650	16	50
WM380	80		WM865		65	WM1665		65
WM390	90		WM880		80	WM1680		80
WM3120	120	WM890	90		WM1690	90		
WM450	4	50	WM8120	120	WM16120	120		
WM465		65	WM8160	160	WM16160	160		
WM480		80	WM8200	200	WM16200	200		
WM490		90	WM8270	270	WM16270	270		
WM4120		120	WM1050	10	50	WM16320	320	
WM4160		160	WM1065		65	WM2050	20	50
WM4200	200	WM1080	80		WM2065	65		
WM550	5	50	WM1090		90	WM2080		80
WM565		65	WM10120		120	WM2090		90
WM580		80	WM10160		160	WM20120		120
WM590		90	WM10200	200	WM20160	160		
WM5120		120	WM10270	270	WM20200	200		
WM5160		160	WM10320	320	WM20270	270		
WM5200	200	WM1250	12	50	WM20320	320		
WM650	6	50		WM1265	65			
WM665		65		WM1280	80			

CAD reference point



WH(G)

Heat Transfer Rods



REF(G)	d	L
WH350	3	50
WH365		65
WH380		80
WH390		90
WH3120		120
WH450	4	50
WH465		65
WH480		80
WH490		90
WH4120		120
WH4160		160
WH4200	200	
WH550	5	50
WH565		65
WH580		80
WH590		90
WH5120		120
WH5160	160	
WH5200	200	
WH650	6	50
WH665		65

REF(G)	d	L
WH680	6	80
WH690		90
WH6120		120
WH6160		160
WH6200		200
WH6270		270
WH850	8	50
WH865		65
WH880		80
WH890		90
WH8120		120
WH8160		160
WH8200	200	
WH8270	270	
WH1050	10	50
WH1065		65
WH1080		80
WH1090		90
WH10120		120
WH10160		160
WH10200	200	
WH10270	270	
WH10320	320	
WH1250	12	50
WH1265		65
WH1280		80

REF(G)	d	L
WH1290	12	90
WH12120		120
WH12160		160
WH12200		200
WH12270		270
WH12320	320	
WH1650	16	50
WH1665		65
WH1680		80
WH1690		90
WH16120		120
WH16160		160
WH16200	200	
WH16270	270	
WH16320	320	
WH2050	20	50
WH2065		65
WH2080		80
WH2090		90
WH20120		120
WH20160		160
WH20200		200
WH20270		270
WH20320	320	

CAD reference point

DME 63 - MS 110 - MS 120

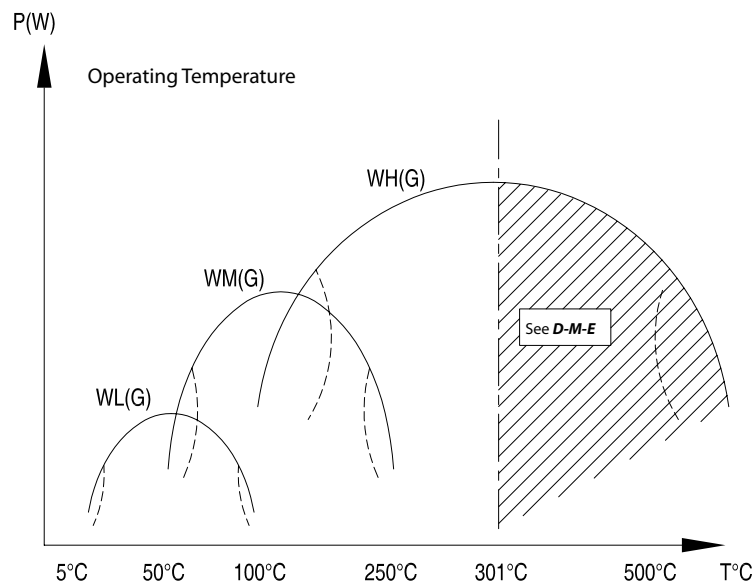


REF	Quantity
DME63	400 ml
MS110	450 gr
MS120	10 gr

Working range

The **DME** Heat Transfer Rods contain heat exchange fluid specially selected for the temperature of operation. They are available in 3 Series providing high transfer efficiency over a given range of temperatures. For low and medium temperatures, the WL Series covers the range from 5 to 100°C and the WM Series from 50°C to 250°C. For high temperatures, the WH Series covers the range from 150°C to 500°C. It is always recommended to choose the largest diameter and greatest length. Graphs should not be used for determining energy values. At each end of each curve, there is a critical zone in which the operation of the Heat Transfer Rod does not present the best guarantee of efficiency.

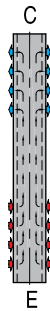
Operating Temperature



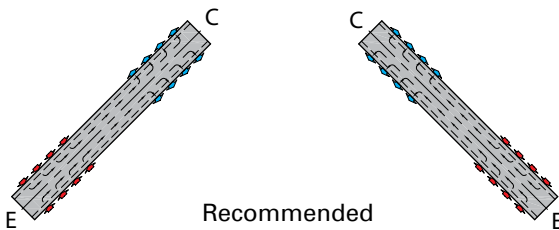
CAD reference point



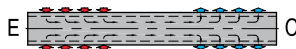
Installation Instruction WL(G) - WM(G) - WH(G)



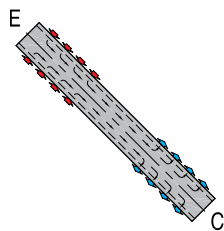
Recommended



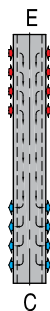
Recommended



Recommended



Avoid where possible



Not recommended

With proper installation, the rod may last as long as the mold. Efficiency of the Heat Transfer Rods varies, according to their position, length and diameter. A correct working action of the rod is obtained by reducing the thermal resistances to a minimum by using a thermal bond of the **DME Heat Transfer Paste 63**.

As the fluid inside the rod circulates by gravity and capillarity, the best position for the rod is the vertical position (bottom: heat source + evaporation / top: cold section + condensation).

The less efficient position is the reserved position (bottom: cold section + condensation / top: heat source + evaporation).

- Drill a blind hole of 0,1 mm larger than the nominal diameter of the rod for diameters ranging from 2 to 10 mm and 0,2 mm for those larger than 12 mm.
- Make sure no chips remain into the drilled hole.
- Insert into the hole the **DME Heat Transfer Paste 63** which will insure a thermal contact (thermal bond) between the rod and the steel mass of the mould.
- Push the rod into the hole, thus allowing the Heat Transfer Paste 63 to drive back along the hole wall.

C = condensator + cold section
E = evaporator + heat source

Installation Instruction WL(G) - WM(G) - WH(G)

Irregular shapes of the zone to be cooled

As a general rule, it is advisable to install a Heat Transfer Rod with maximum diameter and maximum length acceptable. When there is a narrow section into the zone to be cooled, where a small diameter should be necessary, it is better to install the rod farther away from the surface to be cooled in order to have a bigger diameter rather than to install a small diameter closer to the surface to be cooled.

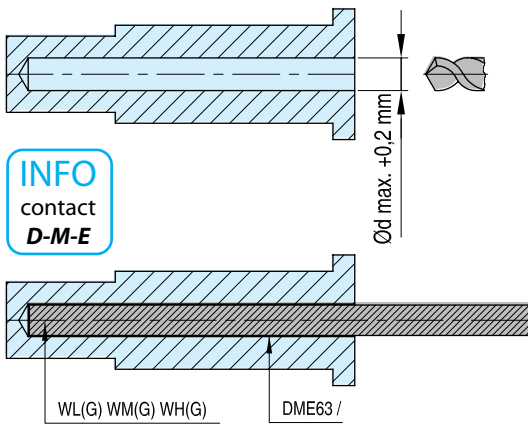


Fig. I

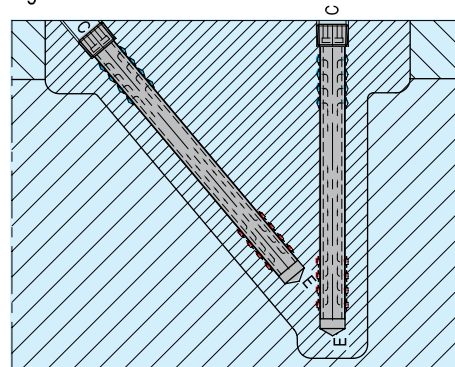
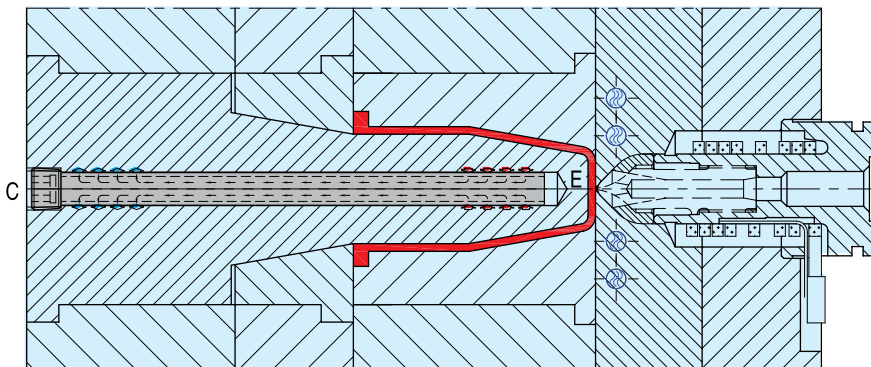


Fig. II

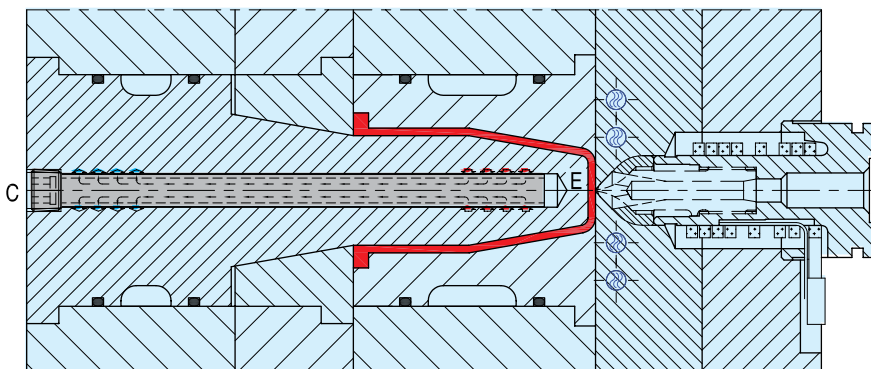


Examples

Inside a core:

- 1) All types: without cooling lines (thermal conduction into the cold part of the mould).
- 2) Heat Transfer Rod not in contact with the cooling fluid. The transfer is obtained by means of a cooling line circulating close to the end of the rod.
- 3) Cooling by means of air circulation. It is however preferable to allow the heat transfer by thermal conduction into the mould rather than by air circulation, the thermal exchanges being low in this latter case.

Fig. III



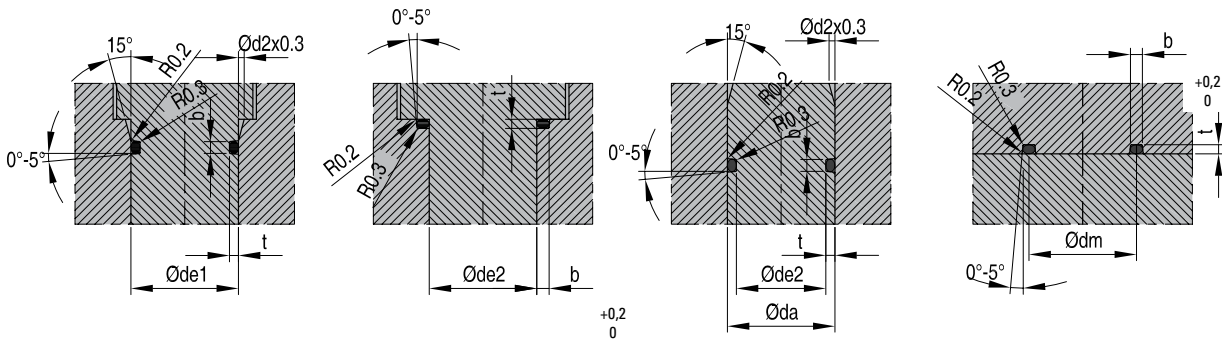
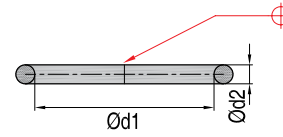
CAD reference point



DR 1700

O-Rings

Info:
Mat.: Perbunan Hardness
Hardness: ~ 80 shore
Temperature: -40°C --> 100°C



REF	d1	d2	da	de1	de2	dm	b	t
DR17000102-00	10	2,00	13,2	13,2	10	12,00	2,6	1,6
DR17000103-00	10	3,00	14,8	14,8	10	13,00	3,9	2,4
DR17001003-00	100	3,00	104,8	104,8	100	103,00	3,9	2,4
DR17001004-00	100	4,00	106,4	106,4	100	104,00	5,2	3,2
DR17001054-00	105	4,00	111,4	111,4	105	109,00	5,2	3,2
DR17000121-50	12	1,50	14,2	14,8	12	13,50	1,9	1,2
DR17000122-00	12	2,00	15,2	15,2	12	14,00	2,6	1,6
DR17000123-00	12	3,00	16,8	16,8	12	15,00	3,9	2,4
DR17001202-00	120	2,00	123,2	123,2	120	122,00	2,6	1,6
DR17000133-00	13	3,00	17,8	17,8	13	16,00	3,9	2,4
DR17001305-00	130	5,00	138,0	138	130	135,00	6,5	4,0
DR17000141-60	14	1,60	16,6	16,6	14	15,60	2,0	1,3
DR17000142-00	14	2,00	17,2	17,2	14	16,00	2,6	1,6
DR17001404-00	140	4,00	146,4	146,4	140	144,00	5,2	3,2
DR17001502-00	150	2,00	153,2	153,2	150	152,00	2,6	1,6
DR17001504-00	150	4,00	156,4	156,4	150	154,00	5,2	3,2
DR17000161-25	16	1,25	18,0	18,0	16	17,25	1,6	1,0
DR17000162-00	16	2,00	19,2	19,2	16	18,00	2,6	1,6
DR17000173-00	17	3,00	21,8	21,8	17	20,00	3,9	2,4
DR17000181-50	18	1,50	20,4	20,4	18	19,50	1,9	1,2
DR17001856-00	185	6,00	194,6	194,6	185	191,00	7,5	4,8
DR17000202-00	20	2,00	23,2	23,2	20	22,00	2,6	1,6
DR17000203-00	20	3,00	24,8	24,8	20	23,00	3,9	2,4
DR17000204-00	20	4,00	26,4	26,4	20	24,00	5,2	3,2
DR17002104-00	210	4,00	216,4	216,4	210	214,00	5,2	3,2
DR17000223-00	22	3,00	26,8	26,8	22	25,00	3,9	2,4
DR17000263-00	26	3,00	30,8	30,8	26	29,00	3,9	2,4

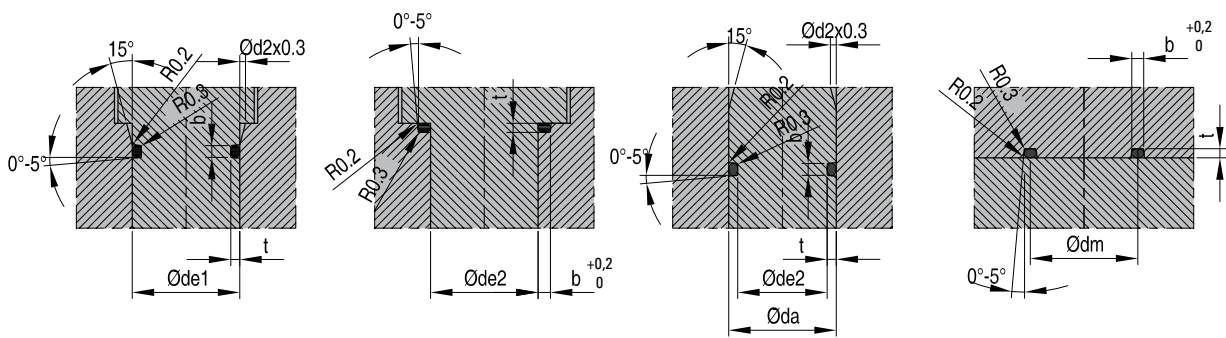
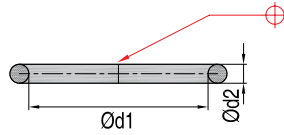
CAD reference point



O-Rings

DR 1700

Info:
Mat.: Perbunan Hardness
Hardness: ~ 72 shore
Temperature: -40°C → 100°C

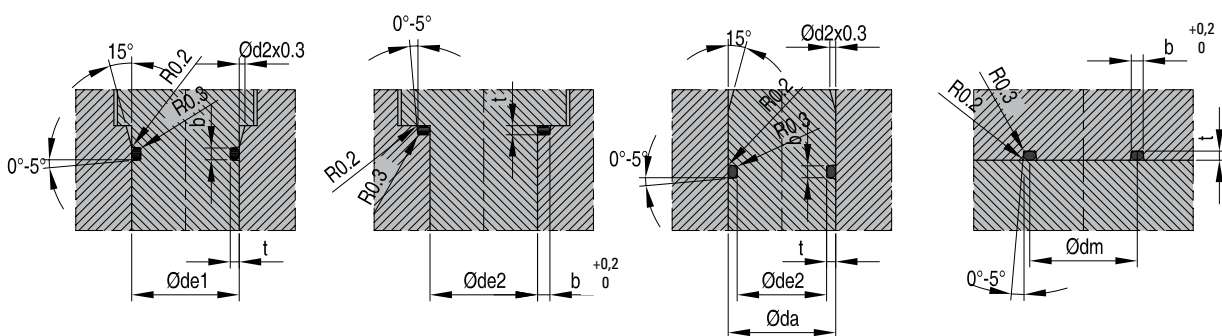
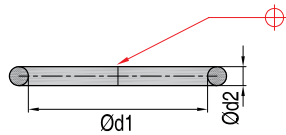


REF	d1	d2	da	de1	de2	dm	b	t
DR17000273-20	27	3,20	32,2	32,2	27	30,20	4,2	2,6
DR17000302-00	30	2,00	33,2	33,2	30	32,00	2,6	1,6
DR17000303-00	30	3,00	34,8	34,8	30	33,00	3,9	2,4
DR17000304-00	30	4,00	36,4	36,4	30	34,00	5,2	3,2
DR17000324-00	32	4,00	38,4	38,4	32	36,00	5,2	3,2
DR17000353-20	35	3,20	40,2	40,2	35	38,20	4,2	2,6
DR17000384-00	38	4,00	44,4	44,4	38	42,00	5,2	3,2
DR17000402-00	40	2,00	43,2	43,2	40	42,00	2,6	1,6
DR17000403-00	40	3,00	44,8	44,8	40	43,00	3,9	2,4
DR17000404-00	40	4,00	46,4	46,4	40	44,00	5,2	3,2
DR17000423-00	42	3,00	46,8	46,8	42	45,00	3,9	2,4
DR17000454-00	45	4,00	51,4	51,4	45	49,00	5,2	3,2
DR17000484-00	48	4,00	54,4	54,4	48	52,00	5,2	3,2
DR17000502-00	50	2,00	53,2	53,2	50	52,00	2,6	1,6
DR17000504-00	50	4,00	56,4	56,4	50	54,00	5,2	3,2
DR17000523-00	52	3,00	56,8	56,8	52	55,00	3,9	2,4
DR17000593-00	59	3,00	63,8	63,8	59	62,00	3,9	2,4
DR17000062-00	6	2,00	9,2	9,2	6	8,00	2,6	1,6
DR17000062-50	6	2,50	10,0	10,0	6	8,50	3,2	2,0
DR17000603-00	60	3,00	64,8	64,8	60	63,00	3,9	2,4
DR17000604-00	60	4,00	66,4	66,4	60	64,00	5,2	3,2
DR17000703-00	70	3,00	74,8	74,8	70	73,00	3,9	2,4
DR17000704-00	70	4,00	76,4	76,4	70	74,00	5,2	3,2
DR17000082-00	8	2,00	11,2	11,2	8	10,00	2,6	1,6
DR17000802-80	80	2,80	84,4	84,4	80	82,80	3,7	2,2
DR17000804-00	80	4,00	86,4	86,4	80	84,00	5,2	3,2
DR17000843-00	84	3,00	88,8	88,8	84	87,00	3,9	2,4
DR17000904-00	90	4,00	96,4	96,4	90	94,00	5,2	3,2

CAD reference point



Info:
Mat.: FPM (Viton)
Hardness: ~ 80 shore
Tmax: + 200°C air permanent
 + 250°C air temporary
 + 100°C water permanent

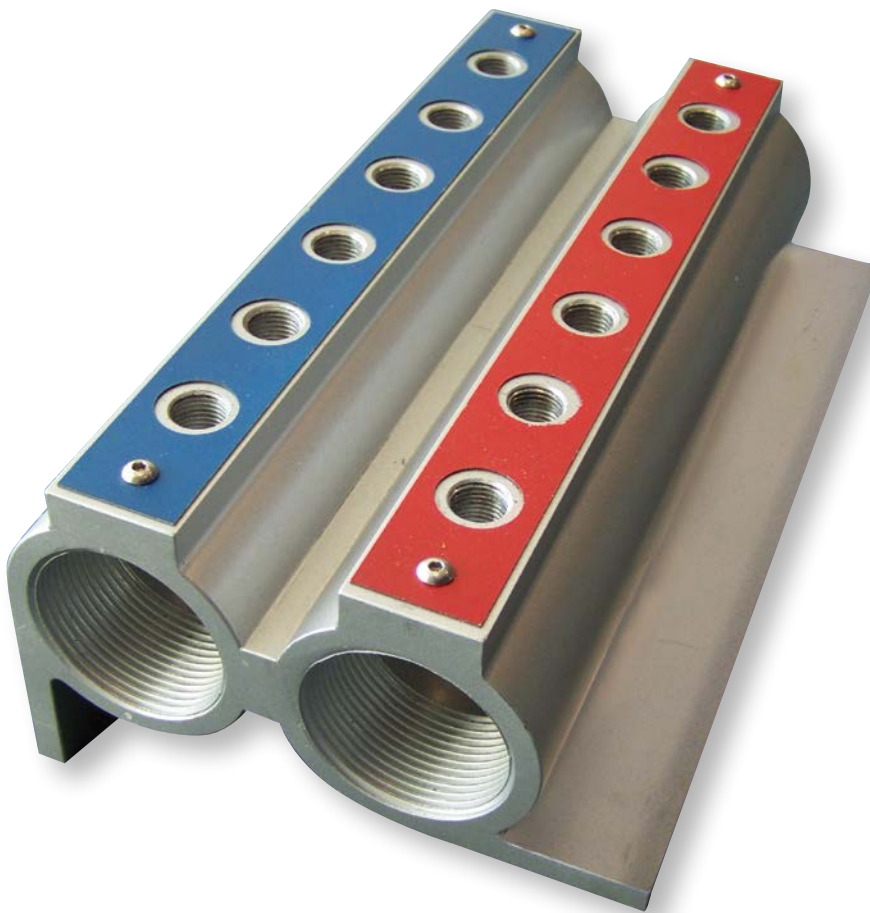


REF	d1	d2	da	de1	de2	dm	b	t
DR171003-501-50	3,50	1,50	5,7	6	3,5	5,00	1,9	1,20
DR171005-501-50	5,50	1,50	7,7	8	5,5	7,00	1,9	1,20
DR171006-002-00	6,00	2,00	9,0	10	6,0	8,00	2,7	1,50
DR171006-351-78	6,35	1,78	9,1	10	6,5	8,13	2,2	1,45
DR171007-501-50	7,50	1,50	9,7	10	7,5	9,00	1,9	1,20
DR171008-002-50	8,00	2,50	11,7	12	8,0	10,50	3,2	2,00
DR171010-002-50	10,00	2,50	13,7	14	10,0	12,50	3,2	2,00
DR171012-002-00	12,00	2,00	15,0	16	12,0	14,00	2,7	1,50
DR171012-002-50	12,00	2,50	15,7	16	12,0	14,50	3,2	2,00
DR171012-421-78	12,42	1,78	15,1	16	12,5	14,20	2,2	1,45
DR171014-002-50	14,00	2,50	17,7	18	14,0	16,50	3,2	2,00
DR171016-002-50	16,00	2,50	19,7	20	16,0	18,50	3,9	2,00
DR171017-003-00	17,00	3,00	21,6	22	17,0	20,00	3,9	2,40
DR171020-003-00	20,00	3,00	24,6	25	20,0	23,00	3,9	2,40
DR171021-002-00	21,00	2,00	24,0	25	21,0	23,00	2,7	1,50
DR171021-951-78	21,95	1,78	24,6	25	22,0	23,73	2,2	1,45
DR171023-003-00	23,00	3,00	27,6	28	23,0	26,00	3,9	2,40
DR171025-003-00	25,00	3,00	29,6	30	25,0	28,00	3,9	2,40
DR171027-003-00	27,00	3,00	31,6	32	27,0	30,00	3,9	2,40
DR171030-003-00	30,00	3,00	34,6	35	30,0	33,00	3,9	2,40
DR171035-003-00	35,00	3,00	39,6	40	35,0	38,00	3,9	2,40
DR171040-003-00	40,00	3,00	44,6	45	40,0	43,00	3,9	2,40
DR171045-003-00	45,00	3,00	49,6	50	45,0	48,00	3,9	2,40
DR171055-003-00	55,00	3,00	59,6	60	55,0	58,00	3,9	2,40
DR171058-003-00	58,00	3,00	62,6	63	58,0	61,00	3,9	2,40
DR171064-004-00	64,00	4,00	70,2	70	64,0	68,00	5,2	3,20
DR171074-004-00	74,00	4,00	80,2	80	74,0	78,00	5,2	3,20
DR171084-004-00	84,00	4,00	90,2	90	84,0	88,00	5,2	3,20
DR171094-004-00	94,00	4,00	100,2	100	94,0	98,00	5,2	3,20
DR1710104-04-00	104,00	4,00	110,2	110	104,0	108,00	5,2	3,20
DR171012000400	120,00	4,00	126,2	126	120,0	124,00	5,2	3,20
DR171013400400	134,00	4,00	140,2	140	134,0	138,00	5,2	3,20
DR171015500400	155,00	4,00	161,2	161	155,0	159,00	5,2	3,20



Cooling Manifold

- no loss in pressure due to long hoses or too many flow meters
- efficient parallel moldcooling with shorter cycle times
- easily install and group cooling connections and hoses
- in- and outlets can be connected separately
- hose lengths can be reduced, enabling the molder to work with lower pressure in the system
- cooling manifold can be installed horizontally and vertically



Info

Cooling Manifold



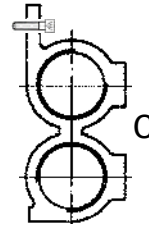
Traditional cooling connection



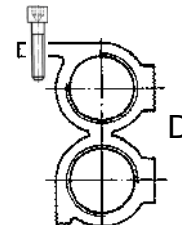
DME cooling manifold

- One piece Aluminium Extrusion Anodized
- Corrosion resistant / No Welds
- Standard Inlets: 1 1/2" (2 included per system)
- Predrilled Mounting Holes
- Red / Blue Marking plate Included
- Specials upon demand

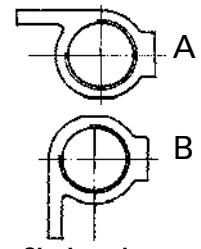
Manifold Type



Double option
On side of the mold/ machine

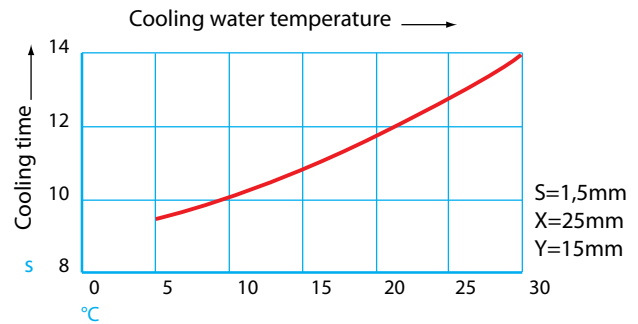
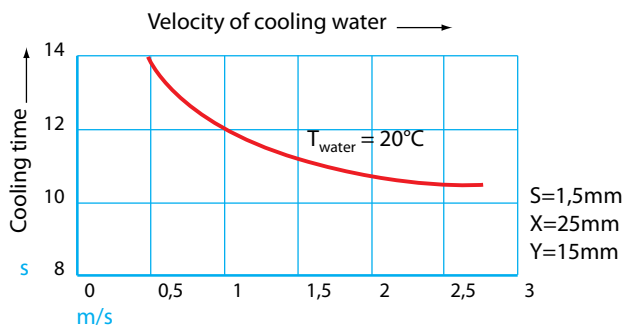


Double option
On top of mold/ machine

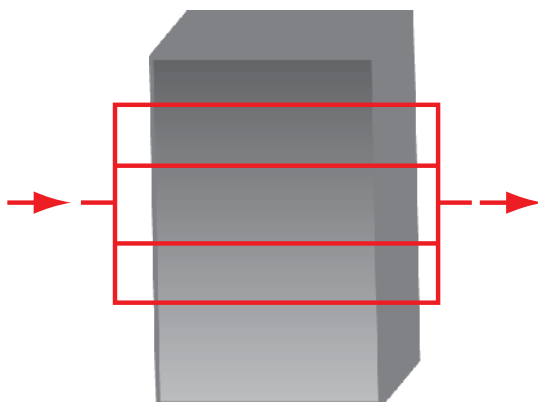


Single option
(Upon request)

Info

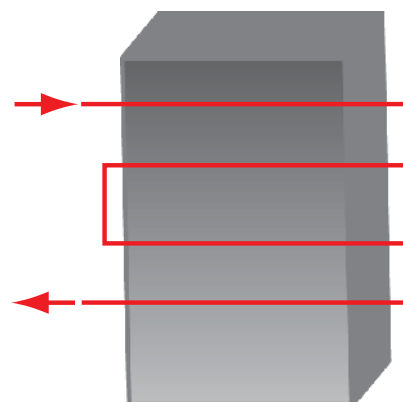


Parallel



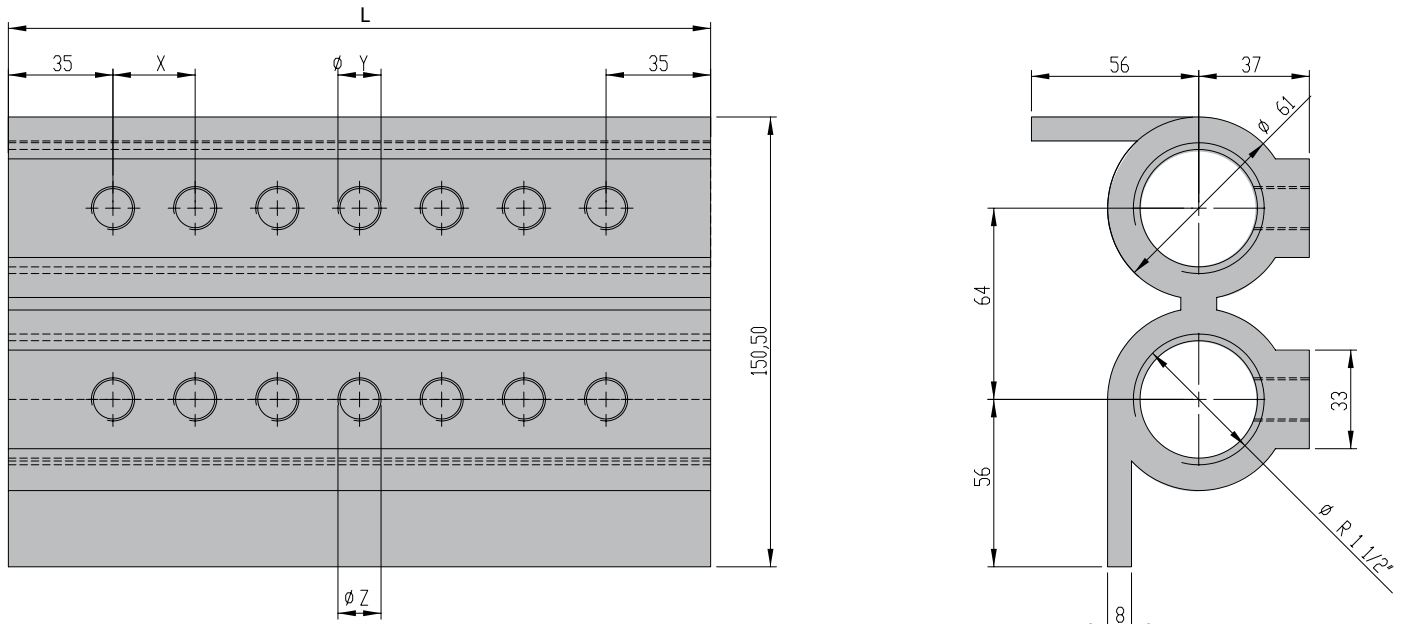
High flow
Low pressure loss

Serial



Low flow
High pressure loss

Example



For use	Y/Z	X
Nipple/plug	1/4" 3/8" M14x1,5	27,50 mm
Nipple/plug	1/2" / M16x1,5	33,00 mm
Nipple/plug	3/4" / M24x1,5	41,25 mm
Valves	upon request	Minimum 50 when using collector valves with handle

How to order*

- Number of holes per row
- Thread upper row "Y"
- Thread lower row "Z"
- Distance "X"
- Total length manifold
- Manifold type (A, B, C or D - for details see previous page)

Example:

COLM	2x7	3/8	3/8	33	268	(A, B, C, D)
REF	N° holes	Thread Y	Thread Z	X	Total Length	Manifold type

mandatory info to be supplied by customer

Standard accessories available



Collector Valve with Handle 1/2"
REF: CVH12
For use with X= 41.5 mm



GK Extension Brass 1/2"
Length 50 mm
REF: GKMF12
To be used for second row

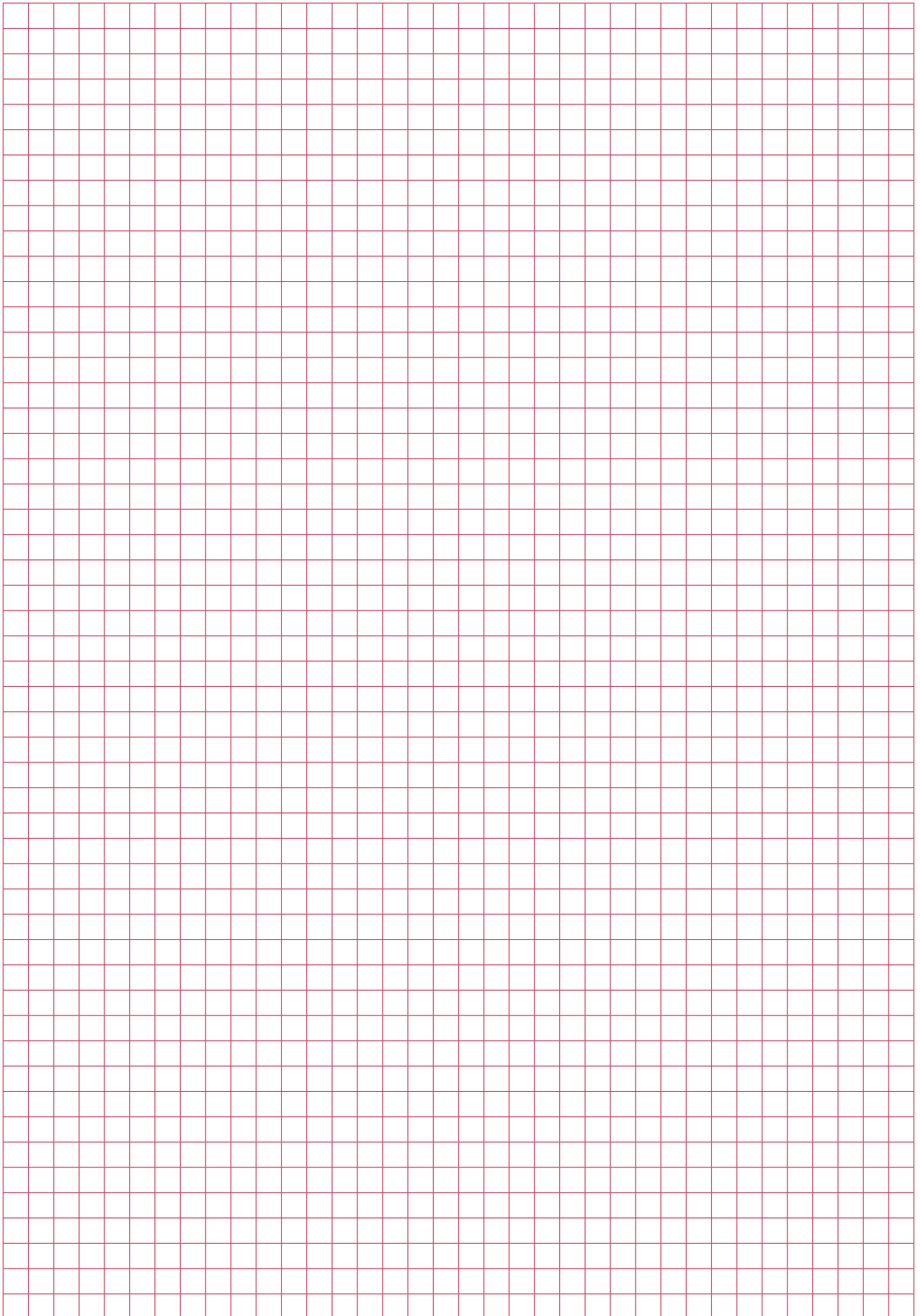


FLOW METER
with Mechanical Regulation
REF: FM 1234
BSP 1/2" (Female) - BSP 3/4" (Male)
Hexagonal: SW19
Full Length: 81mm
Flow capacity: 2 - 8 lt/min
Temperature Range: +0°C - +100 °C
Working Pressure: max 10 Bar
Springs: Stainless Steel
Indicator Plastic Seals: Buna



Standard Inlets:
1 1/2": REF: COMFD0001

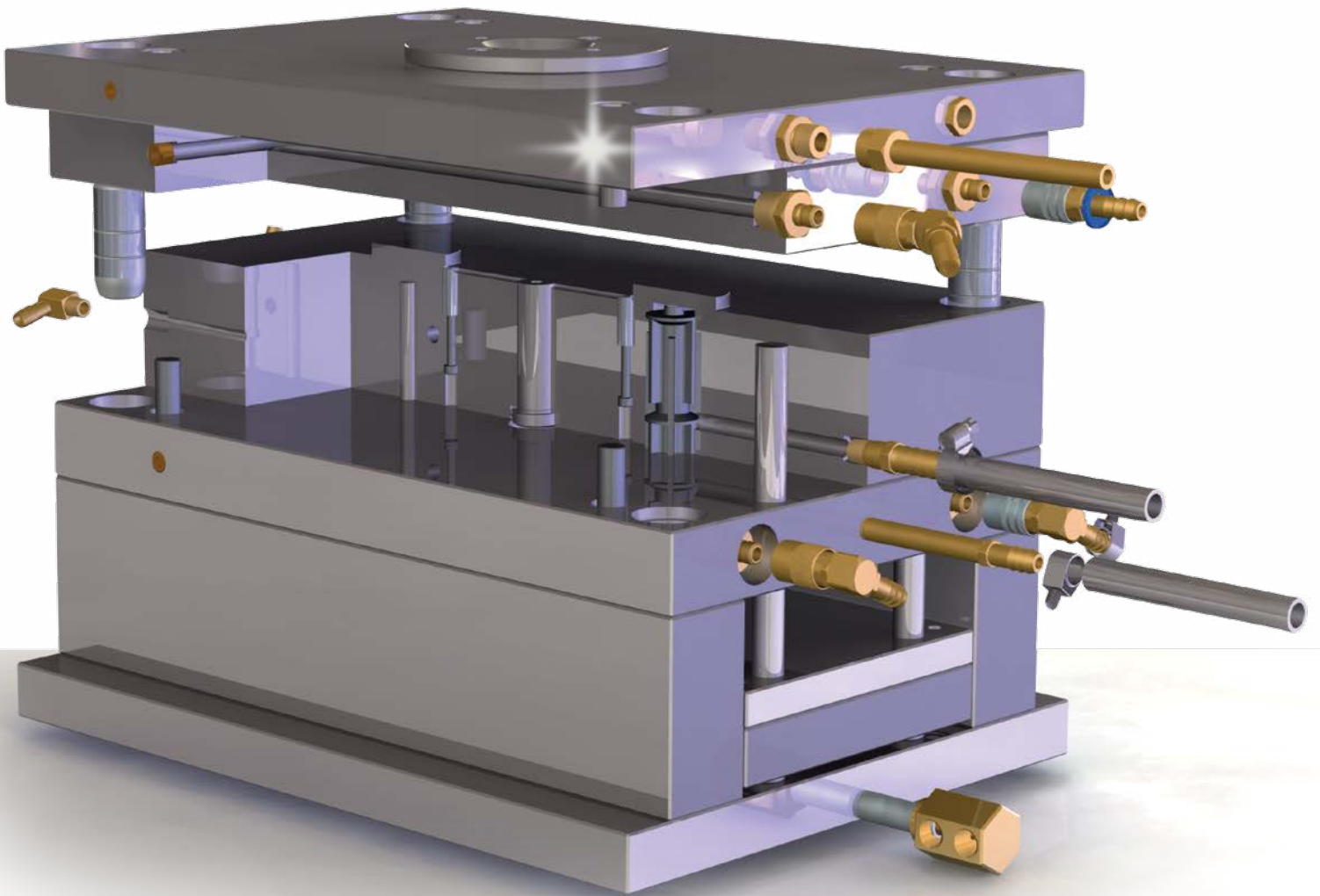






MILACRON®

Technical Data



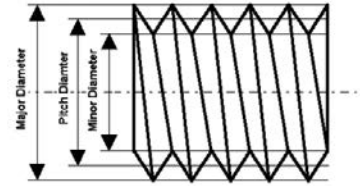
International Thread Standards

The most frequently used thread standard is the metric ISO Thread. However, there are other thread standards as well. These are either based on foreign standards or are used for special applications. E.G. in the medical technology, in aeronautical engineering or astronautics.

The most common threads are:

- ISO Thread (metric)
- Whitworth Thread
- Pipe Thread
- Trapezoidal Thread
- Knuckle Thread
- Buttress Thread

The thread abbreviation includes the thread code letter and the nominal thread diameter or the thread size. Additional values for pitch or TPI, tolerance, multi-lead, taper and left-handedness are added. Often threads that are according to DIN Standard have the major DIN number put in front of the thread abbreviation.



Talking of screws the major diameter for screws is determined by the thread tips.

The minor diameter by the groove of the thread.

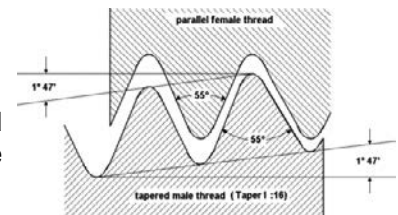
The pitch diameter is the distance of two opposite flanks or the distance of the center line of the profile.

Thread Specifications

Abbreviation	Country	Thread Angle °	Description
ISO		60°	International Organization for Standardization
NC	USA	60°	National Coarse
UNC	USA	60°	Unified National Coarse
NF	USA	60°	National Fine
UNF	USA	60°	Unified National Fine
UNEF	USA	60°	Unified National Extra Fine
UN	USA	60°	Unified National 8-, 12- and 16 pitch Series
UNS	USA	60°	Special Threads of American National Form
NPT	USA	60°	National Taper Pipe 1:16
NPTF	USA	60°	National Taper Pipe Dryseal 1:16
NPS	USA	60°	National Standard Straight Pipe
NPSM	USA	60°	National Standard Straight Pipe for free fitting mechanical
NPSF	USA	60°	National Standard Internal Straight Pipe Dryseal
BSW	GB	55°	British Standard Whitworth Coarse
BSF	GB	55°	British Standard Fine
BSP	GB	55°	British Standard Pipe
BSPT	GB	55°	British Standard Pipe Taper
BA	GB	47°	British Standard Association

Whitworth Tapered Pipe Thread DIN 2999 _ BSPT (British Standard Tapered Pipe)

Whitworth Pipe Thread for pipes and fittings. Parallel female thread and tapered male thread (taper 1 : 16). An appropriate sealing compound can be used in the thread to ensure a leak-proof joint.

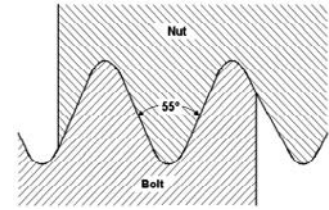


Thread Specifications

Male Thread Diameter	Female Thread Diameter	Pipe Minor Diameter mm	Pipe Major Diameter mm	Tapping Drill Size mm	TPI	Pitch mm
R 1/16"	Rp 1/16"	3	7,723	6,561	28	0,907
R 1/8"	Rp 1/8"	6	9,728	8,566	28	0,907
R 1/4"	Rp 1/4"	8	13,157	11,445	19	1,337
R 3/8"	Rp 3/8"	10	16,662	14,950	19	1,337
R 1/2"	Rp 1/2"	15	20,995	18,631	14	1,814
R 3/4"	Rp 3/4"	20	26,441	24,117	14	1,814
R 1"	Rp 1"	25	33,249	30,291	11	2,309
R 1 1/4"	Rp 1 1/4"	32	41,910	38,952	11	2,309
R 1 1/2"	Rp 1 1/2"	40	47,803	44,845	11	2,309
R 2"	Rp 2"	50	59,614	56,656	11	2,309
R 2 1/2"	Rp 2 1/2"	65	75,184	72,226	11	2,309
R 3"	Rp 3"	80	87,884	84,926	11	2,309
R 4"	Rp 4"	100	113,030	110,072	11	2,309
R 5"	Rp 5"	125	138,430	135,472	11	2,309
R 6"	Rp 6"	150	163,830	160,872	11	2,309

Whitworth Pipe Thread DIN ISO 228 BSP (British Standard Pipe)

British Standard Pipe Thread, with sealant compound
(parallel, cylindrical), external = G



Thread Specifications

Nominal Diameter	Major Diameter	Minor Diameter Nut mm	Tapping Drill Size	TPI	Pitch mm
G 1/8"	9,73	8,85	8,80	28	0,907
G 1/4"	13,16	11,89	11,80	19	1,337
G 3/8"	16,66	15,39	15,25	19	1,337
G 1/2"	20,95	19,17	19,00	14	1,814
G 5/8"	22,91	21,13	21,00	14	1,814
G 3/4"	26,44	24,66	24,50	14	1,814
G 7/8"	30,20	28,42	28,25	14	1,814
G 1"	33,25	30,93	30,75	11	2,309
G 1 1/8"	37,90	35,58	35,30	11	2,309
G 1 1/4"	41,91	39,59	39,25	11	2,309
G 1 3/8"	44,32	42,00	41,70	11	2,309
G 1 1/2"	47,80	45,48	45,25	11	2,309
G 1 3/4"	53,74	51,43	51,10	11	2,309
G 2"	59,61	57,29	57,00	11	2,309
G 2 1/4"	65,71	63,39	63,10	11	2,309
G 2 1/2"	75,18	72,86	72,60	11	2,309
G 2 3/4"	81,53	79,21	78,90	11	2,309
G 3"	87,88	85,56	85,30	11	2,309
G 3 1/4"	93,98	91,66	91,50	11	2,309
G 3 1/2"	100,33	98,01	97,70	11	2,309
G 3 3/4"	106,68	104,30	104,00	11	2,309
G 4"	113,03	110,71	110,40	11	2,309





U100 Series

These new couplers (with valve) have been designed according to industrial requirements. This new product works perfectly with full flow nipples and valved nipples. You will be able to have clean working areas with the help of this coupling and its valve system. Connection variety permits great flexible working conditions.

Socket with valve / Full flow plug

Socket with valve / Plug with valve

Full flow Socket / Plug with valve

Full flow Socket / Full flow plug

In this new system you can easily recognise the fluid is hot or cold by the new colored ring.

Using Area :

- On mold temperature control connections lines of plastic, zamak, and aluminium injection press.
 - On hot oil lines connection
 - On hot, cold or chilled water circuits.

The RPL Serie is quick to operate, reliable and designed for one hand operations. According to internal diameter there are 2 different sizes of U100 couplers.

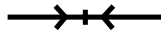
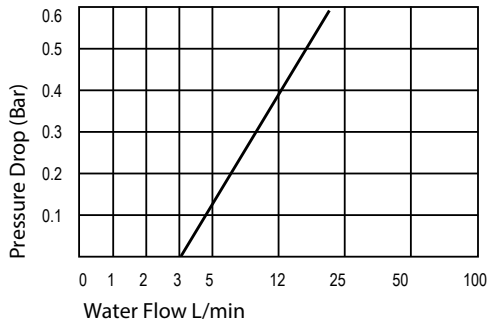
Serie : U100.08B = 8.3 mm

Serie : U100.12B = 13 mm



U100.06

Coupling with valve



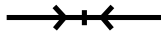
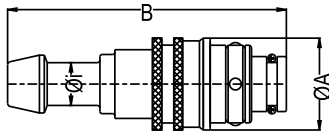
Temperature Range : -20°C +100°C (-40°F +250°F)
Working Pressure : 0 - 10 bar (0 - 160 PSI)
Flow capacity : NW 6

Material
 Coupler Body : Brass Nickel Plated
 Sleeve : Brass Nickel Plated
 Springs : Stainless Steel
 Locking O-Ring : Stainless Steel
 Balls : Stainless Steel
 Seals : NBR Nitrile (Ni)
 Plug - Nippel : Brass Nickel Plated
 Standard version : Brass
 NBR Nitrile (Ni)
 Nickel plated
 Locking balls 6 units

Options
 V - Seal
 E - EPDM Seal
 For optional orders please add the symbol of your option end of the order no.

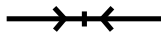
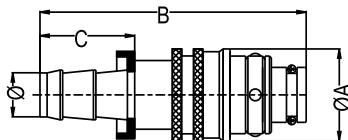
Please add: B - for Blue, R - for Red at the end of the REF for identification of the right colour.

Standard hose tail plug - Socket and Plug



Ø Connection	REF	Dimension in mm	
		A	B
Ø 6 mm	1/4"	17	32,5
Ø 8 mm	5/16"		

Push-lock hose tail plug

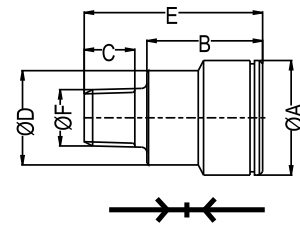


Ø Connection	REF	Dimension in mm	
		A	B
Ø 6 mm	1/4"	17	32,5
Ø 8 mm	5/16"		
Ø 10 mm			

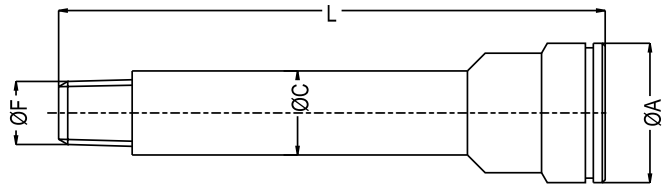
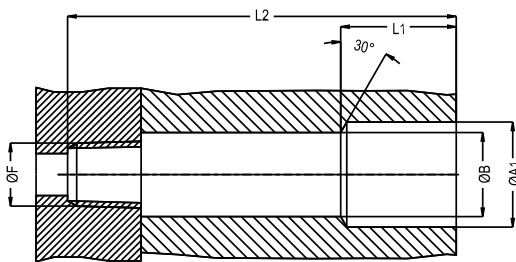
Male threaded plug socket - Socket and Plug

U100.06

Ø F Connection	REF	Dimension in mm					Allen SW
		A	B	C	D	E	
BSPT 1/8"	U10006RU10T	17	18.5	10	14	28.5	6
BSPT 1/4"	U10006RU13T			12		30.5	
NPT 1/8"	U100.06 TU 10T			10		28.5	1/4"
NPT 1/4"	U100.06 TU 13T			12		30.5	
M10x1.0	U100.06 EUM 10-1T			10		30.5	6



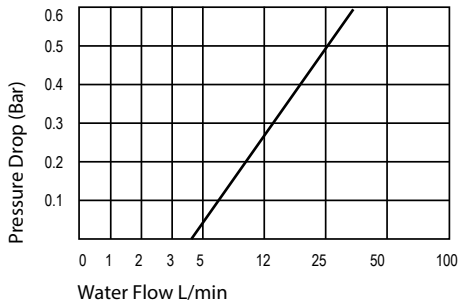
Extension (conical threaded version BSPT-NPT)



Series	F Thread	L min./max.	REF without collar	Assembling Sizes					Allen SW	Torque (m.daN)	
				L1	L2	ØA	ØA1	ØB			ØC
U100.06	BSPT 1/8"	33/100	U100.06 100 R10	20	L-5.5	17	18.5	11	10.2	6	1
U100.06	NPT 1/8"		U100.06 100 T10							1/4"	
U100.06	M10x1.0		U100.06 100 M10							6	

U100.08

Coupling - 9 Balls / 20% Higher Flow

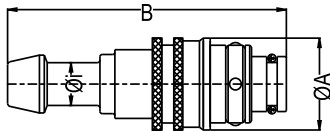


Temperature Range : -20°C +100°C (-40°F +250°F)
Working Pressure : 0 - 10 bar (0 - 160 PSI)
Flow capacity : NW 8.3

Material
 Coupler Body : Brass Nickel Plated
 Sleeve : Brass Nickel Plated
 Springs : Stainless Steel
 Locking O-Ring : Stainless Steel
 Balls : Stainless Steel
 Seals : NBR Nitrile (Ni)
 Plug : Brass Nickel Plated
 Standard version : Brass
 NBR Nitrile (Ni)
 Nickel plated
 Locking balls 9 units

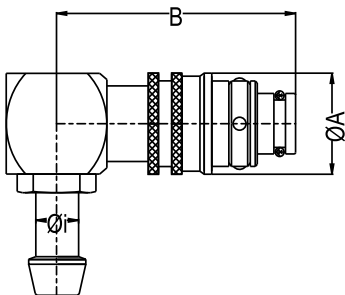
Options
 B - Blue
 R - Red
 V - FPM Seal
 E - EPDM Seal
 For optional orders please add the symbol of your option end of the order no.

Plug - Standard hose tail plug



Ø Connection		REF	Dimension in mm	
			A	B
Ø 6 mm	1/4"	U100.08 HGF 06	20	37.5
Ø 8 mm	5/16"	U100.08 HGF 08		
Ø 10 mm	3/8"	U100.08 HGF 10		
Ø 12 mm	15/32"	U100.08 HGF 12		
Ø 13 mm	1/2"	U100.08 HGF 13		

Standard hose tail plug 90°

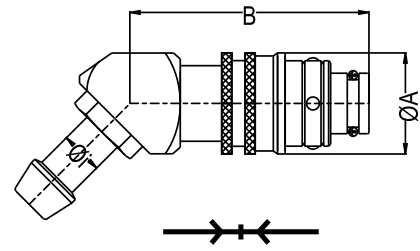


Ø Connection		REF	Dimension in mm	
			A	B
Ø 6 mm	1/4"	U100.08 HGF 06-90°	20	45.5
Ø 8 mm	5/16"	U100.08 HGF 08-90°		
Ø 10 mm	3/8"	U100.08 HGF 10-90°		
Ø 12 mm	15/32"	U100.08 HGF 12-90		
Ø 13 mm	1/2"	U100.08 HGF 13-90		

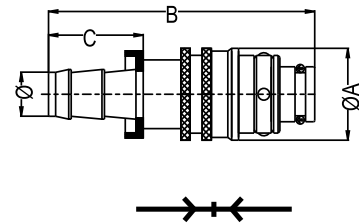
Standard hose tail plug 135°

U100.08

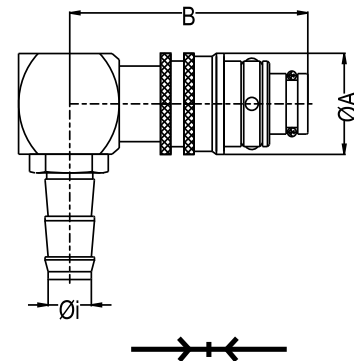
Ø Connection		REF	Dimension in mm	
			A	B
Ø 6 mm	1/4"	U100.08 HGF 06-135°	20	47.5
Ø 8 mm	5/16"	U100.08 HGF 08-135°		
Ø 10 mm	3/8"	U100.08 HGF 10-135°		
Ø 12 mm	15/32"	U100.08 HGF 12-135		
Ø 13 mm	1/2"	U100.08 HGF 13-135		


Push-lock hose tail plug

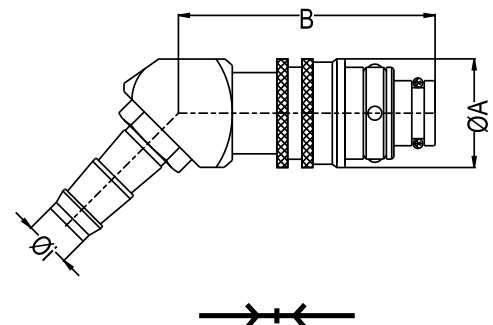
Ø Connection		REF	Dimension in mm	
			A	B
Ø 10 mm	3/8"	U100.08 FGF 10	20	37
Ø 13 mm	1/2"	U100.08 FGF 13		40


Push-lock hose tail plug 90°

Ø Connection		REF	Dimension in mm	
			A	B
Ø 10 mm	3/8"	U100.08 FGF 10-90°	20	45.5
Ø 13 mm	1/2"	U100.08 FGF 13-90°		

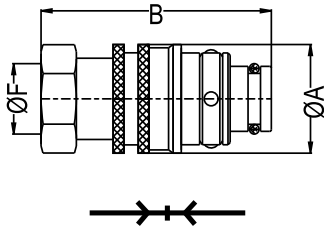

Plug - Push-lock hose tail plug 135°

Ø Connection		REF	Dimension in mm	
			A	B
Ø 10 mm	3/8"	U100.08 FGF 10-135°	20	47.5
Ø 13 mm	1/2"	U100.08 FGF 13-135°		



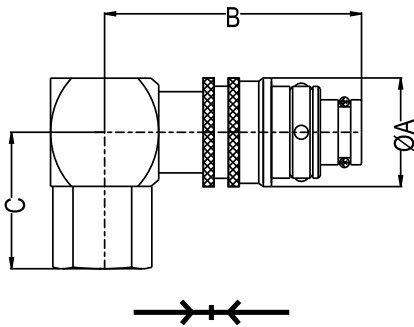
U100.08

Female threaded plug



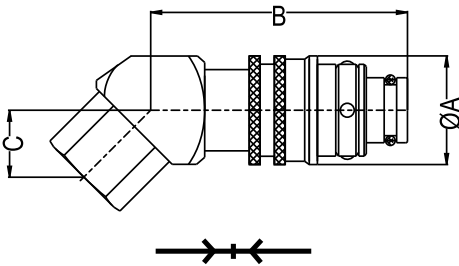
Ø Connection	REF	Dimension in mm	
		A	B
BSP 1/4"	U100.08 DGF 13	20	43
BSP 3/8"	U100.08 DGF 17		52
NPT 1/4"	U100.08 NGF 13		43
NPT 3/8"	U100.08 NGF 17		52

Female threaded plug 90°



Ø Connection	REF	Dimension in mm		
		A	B	C
BSP 1/4"	U100.08 DGF 13-90°	20	45.5	24
BSP 3/8"	U100.08 DGF 17-90°			27
NPT 1/4"	U100.08 NGF 13-90°			
NPT 3/8"	U100.08 NGF 17-90°			

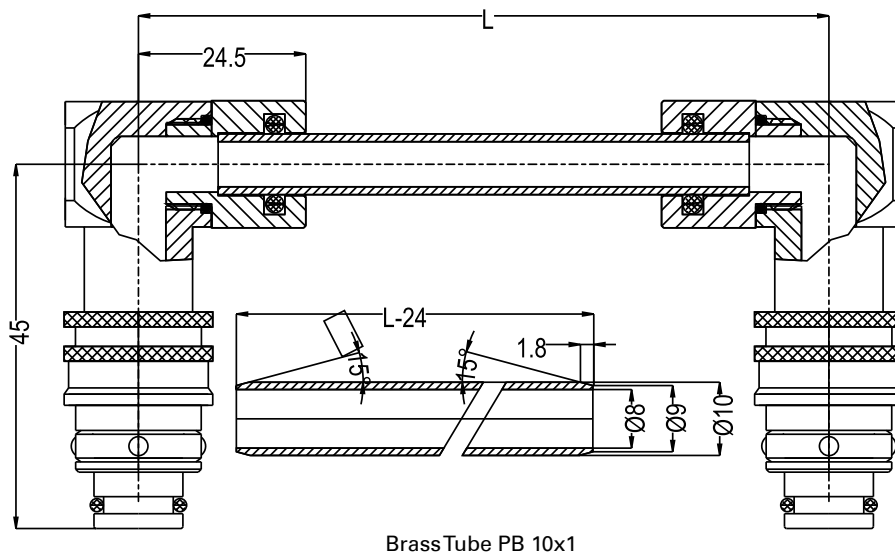
Female threaded plug 35°



Ø Connection	REF	Dimension in mm		
		A	B	C
BSP 1/4"	U100.08 DGF 13-135°	20	47.5	17
BSP 3/8"	U100.08 DGF 17-135°			20
NPT 1/4"	U100.08 NGF 13-135°			
NPT 3/8"	U100.08 NGF 17-135°			

Diverting connector (For U100.08)

U100.08

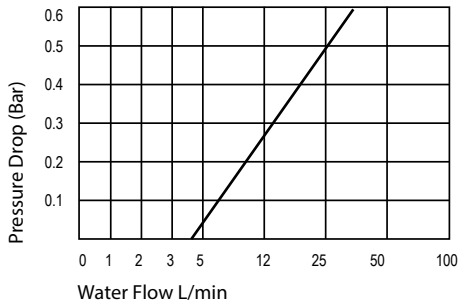


REF	L	L-24
U100.08 KG 125	20	47.5
U100.08 KG 250		
U100.08 KG 500		



U100.08

Coupling with valve - 9 Balls

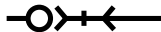
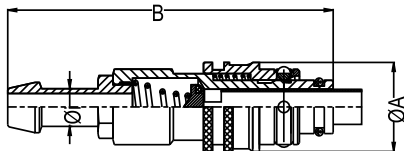


Temperature Range : -20°C +100°C (-40°F +250°F)
Working Pressure : 0 - 10 bar (0 - 160 PSI)
Flow capacity : NW 8.3

Material
 Coupler Body : Brass Nickel Plated
 Sleeve : Brass Nickel Plated
 Springs : Stainless Steel
 Locking O-Ring : Stainless Steel
 Balls : Stainless Steel
 Seals : NBR Nitrile (Ni)
 Plug : Brass Nickel Plated
 Standard version : Brass
 NBR Nitrile (Ni)
 Nickel plated
 Locking balls 9 units

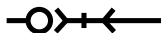
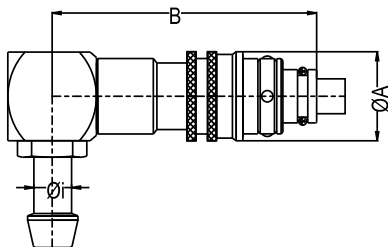
Options
 B - Blue
 R - Red
 V - FPM Seal
 E - EPDM Seal
 For optional orders please add the symbol of your option end of the order no.

Plug - Standard hose tail plug with valve



Ø Connection	REF	Dimension in mm	
		A	B
Ø 6 mm	1/4"	20	59
Ø 8 mm	5/16"		
Ø 10 mm	3/8"		
Ø 12 mm	15/32"		
Ø 13 mm	1/2"		

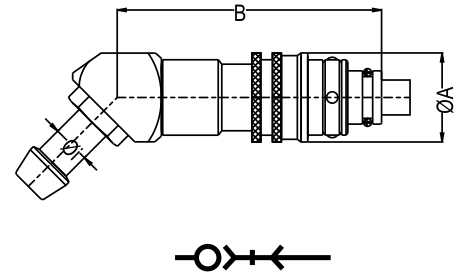
Standard hose tail plug with valve 90°



Ø Connection	REF	Dimension in mm	
		A	B
Ø 6 mm	1/4"	20	64
Ø 8 mm	5/16"		
Ø 10 mm	3/8"		
Ø 12 mm	15/32"		
Ø 13 mm	1/2"		

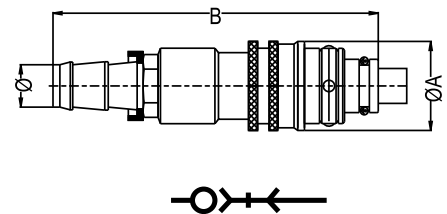
Standard hose tail plug with valve 135°

Ø Connection		REF	Dimension in mm	
			A	B
Ø 6 mm	1/4"	U100.08 HGB 06-135°	20	64
Ø 8 mm	5/16"	U100.08 HGB 08-135°		
Ø 10 mm	3/8"	U100.08 HGB 10-135°		
Ø 12 mm	15/32"	U100.08 HGB 12-135		
Ø 13 mm	1/2"	U100.08 HGB 13-135		



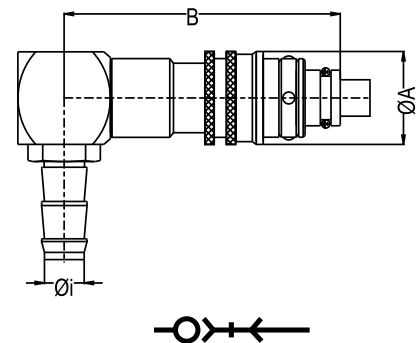
Push-lock hose tail plug with valve

Ø Connection		REF	Dimension in mm	
			A	B
Ø 10 mm	3/8"	U100.08 FGB 10	20	59
Ø 13 mm	1/2"	U100.08 FGB 13		



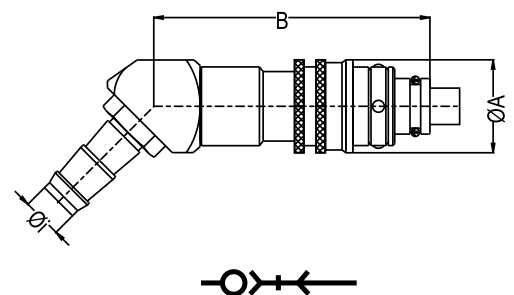
Push-lock hose tail plug with valve 90°

Ø Connection		REF	Dimension in mm	
			A	B
Ø 10 mm	3/8"	U100.08 FGB 10-90°	20	64
Ø 13 mm	1/2"	U100.08 FGB 13-90°		



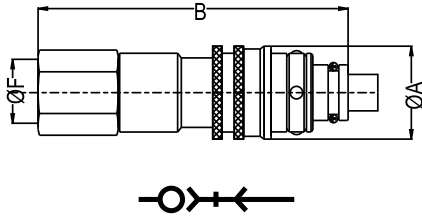
Plug - Push-lock hose tail plug with valve 135°

Ø Connection		REF	Dimension in mm	
			A	B
Ø 10 mm	3/8"	U100.08 FGB 10-135°	20	64
Ø 13 mm	1/2"	U100.08 FGB 13-135°		



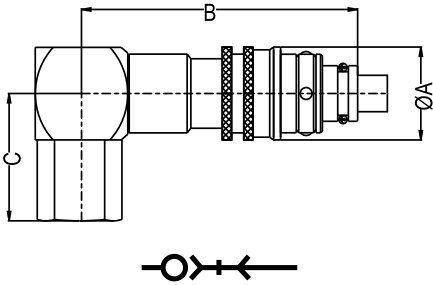
U100.08

Female threaded plug with valve



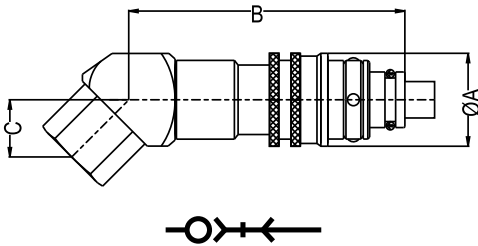
Ø Connection	REF	Dimension in mm	
		A	B
BSP 1/4"	U100.08 DGB 13	20	57
BSP 3/8"	U100.08 DGB 17		
NPT 1/4"	U100.08 NGB 13	20	60
NPT 3/8"	U100.08 NGB 17		

Female threaded plug with valve 90°



Ø Connection	REF	Dimension in mm		
		A	B	C
BSP 1/4"	U100.08 DGB 13-90°	20	54	24
BSP 3/8"	U100.08 DGB 17-90°			
NPT 1/4"	U100.08 NGB 13-90°			27
NPT 3/8"	U100.08 NGB 17-90°			

Female threaded plug with valve 135°

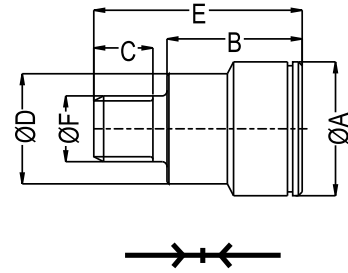


Ø Connection	REF	Dimension in mm		
		A	B	C
BSP 1/4"	U100.08 DGB 13-135°	20	54	17
BSP 3/8"	U100.08 DGB 17-135°			
NPT 1/4"	U100.08 NGB 13-135°			20
NPT 3/8"	U100.08 NGB 17-135°			

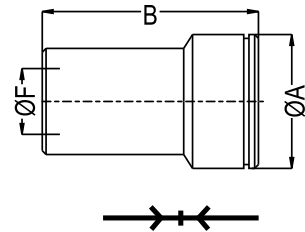
Socket - Male threaded socket

U100.08

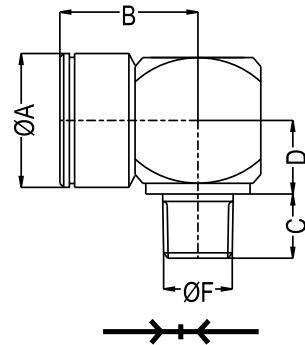
Ø Connection	REF without collar	Dimension in mm					Allen SW
		A	B	C	D	E	
BSPT 1/8"	U100.08 RU 10T	21	21	8	17.5	31	6
BSPT 1/4"	U100.08 RU 13T		21	10		33	8
BSPT 3/8"	U100.08 RU 17T		11	11		24	8
NPT 1/8"	U100.08 TU 10T		21	7		31	1/4"
NPT 1/4"	U100.08 TU 13T		21	11		33	5/16"
NPT 3/8"	U100.08 TU 17T		11	11		24	5/16"
M10x1.0	U100.08 EUM 10-1T		21	10		31	6
M10x1.5	U100.08 EUM 10T		21	20		31	6
M14x1.5	U100.08 EUM 14T		21	11		31	8


Female threaded socket

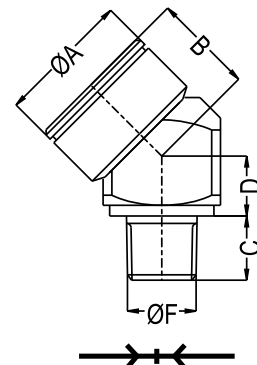
Ø Connection	REF without collar	Dimension in mm		Allen SW
		A	B	
BSP 1/8"	U100.08 DU 10	21	39	8
BSP 1/4"	U100.08 DU 13			5/16"
NPT 1/8"	U100.08 NU 10			
NPT 1/4"	U100.08 NU 13			


Male threaded Socket 90°

Ø Connection	REF without collar	Dimension in mm			Allen SW
		A	B	C	
BSPT 1/8"	U100.08 RU 10-90°T	21	33	24	20
BSPT 1/4"	U100.08 RU 13-90°T				
BSPT 3/8"	U100.08 RU 17-90°T		21	11	
NPT 1/4"	U100.08 TU 13-90°T				

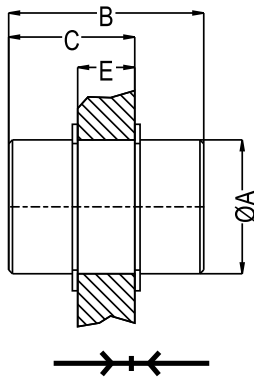

Male threaded socket 135°

Ø Connection	REF without collar	Dimension in mm			Allen SW
		A	B	C	
BSPT 1/8"	U100.08 RU 10-135°T	21	33	24	20
BSPT 1/4"	U100.08 RU 13-135°T				
BSPT 3/8"	U100.08 RU 17-135°T		21	11	
NPT 1/4"	U100.08 TU 13-135°T				



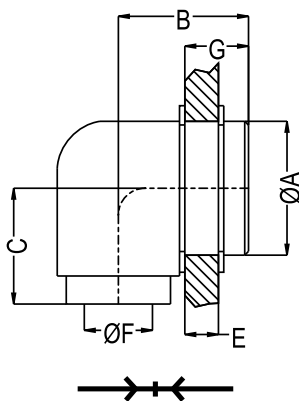
U100.08

Through the wall straight connector



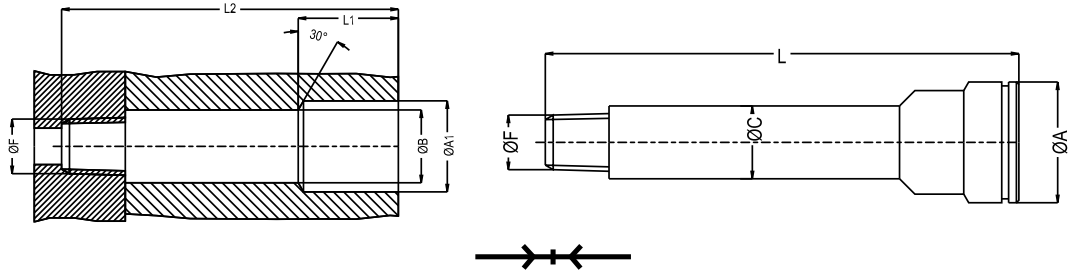
REF without collar	Dimension in mm			
	A	B	C	E
U100.08 PU 00	22	35	23	10 Max.

Through the wall 90° connector

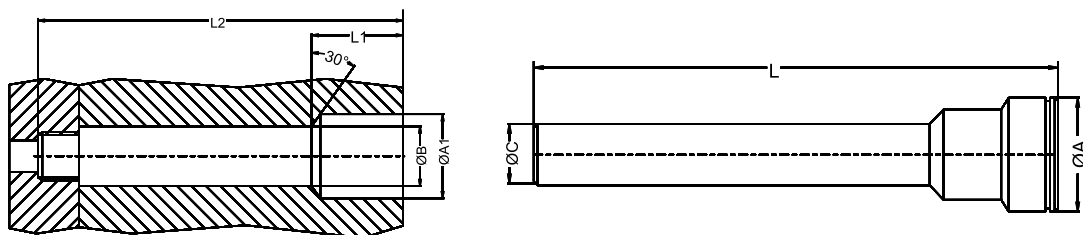


Ø Connection	REF without collar	Dimension in mm			
		A	B	C	E
BSPT 1/4"	U100.08 PU 13-90	22	22	21	10 Max.

Extension (conical threaded version BSPT-NPT)



Series	F thread	L min./max.	REF without collar	Assembling sizes						Allen SW	Torque (m/daN)
				L1	L2	ØA	ØA1	ØB	ØC		
U100.08 BSPT	BSPT 1/8"	33/100	U100.08-100 R10	23	L-5.5	21	22	11	10.2	6	1
		100/150	U100.08-150 R10								
		150/200	U100.08-200 R10								
		200/250	U100.08-250 R10								
U100.08 NPT	NPT 1/8"	33/100	U100.08-100 T10	23	L-5.5	21	22	11	10.2	1/4'	1
		100/150	U100.08-150 T10								
		150/200	U100.08-200 T10								
		200/250	U100.08-250 T10								
U100.08 BSPT	BSPT 1/4"	33/100	U100.08-100 R13	23	L-7.5	21	22	14	13.5	8	3
		100/150	U100.08-150 R13								
		150/200	U100.08-200 R13								
		200/250	U100.08-250 R13								
U100.08 NPT	NPT 1/4"	33/100	U100.08-100 T13	23	L-5.5	21	22	11	10.2	1/4'	1
		100/150	U100.08-150 T13								
		150/200	U100.08-200 T13								
		200/250	U100.08-250 T13								

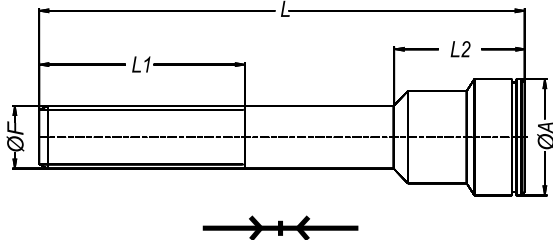


Series	ØC	L	REF without collar	Assembling sizes					Allen SW
				L1	L2	ØA	ØA1	ØB	
U100.08	10.2	50	U1000810BU50	23	L-5.5	21	22	11	6
		100	U1000810BU100						
		150	U1000810BU150						
		200	U1000810BU200						
U100.08	13.5	50	U1000813BU50	23	L-7.5	21	22	14	8
		100	U1000813BU100						
		150	U1000813BU150						
		200	U1000813BU200						
		250	U1000813BU250						

CAD reference point

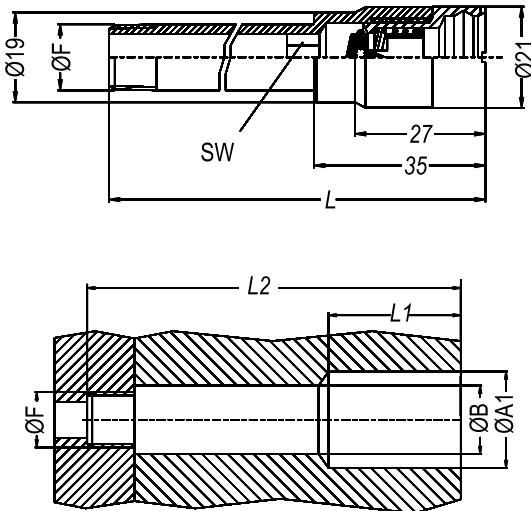
U100.08

Extension (cylindrical BSP threaded version)



Series	F thread	L min./max.	REF without collar	Assembling sizes			Allen SW
				L1	L2	ØA	
U100.08	BSP 1/8"	50	U100.08-50 RF10	26	21	21	6
		100	U100.08-100 RF10				
		150	U100.08-150 RF10				
U100.08	BSP 1/4"	50	U100.08-50 RF13	6.5	21	21	8
		100	U100.08-100 RF13	60			
		150	U100.08-150 RF13				
		200	U100.08-200 RF13				

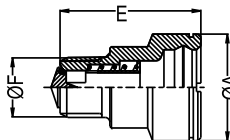
Male Threaded Extension Shut-off Plugs



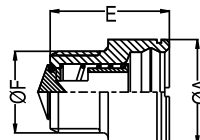
Series	F thread	L min./max.	REF without collar	Assembling sizes			Allen SW
				L1	L2	ØA	
U100.08	BSP 1/8"	50	U1000850EUB10	32	L-5.5	22	6
		100	U10008100EUB10				
		150	U10008150EUB10				
		50	U1000850RUB10				
		100	U10008100RUB10				
U100.08	BSP 1/4"	150	U10008150RUB10	32	L-5.5	22	6
		50	U1000850EUB13				
		100	U10008100EUB13				
		150	U10008150EUB13				
		200	U10008200EUB13				
		50	U1000850RUB13				
		100	U10008100RUB13				
150	U10008150RUB13						
200	U10008200RUB13						

Male Threaded Shut-off Socket

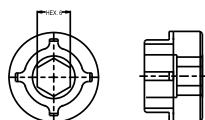
Male thread socket with valve



Male thread socket with valve



Assembling apparatus



Ø Connection	REF without collar	Dimension in mm	
		ØA	L
1/4"	U100.08 EUB 13	21	36

Ø Connection	REF without collar	Dimension in mm	
		ØA	L
3/8"	U100.08 EUB 17	21	28.5

REF
U100.08 EUB 00

CAD reference point

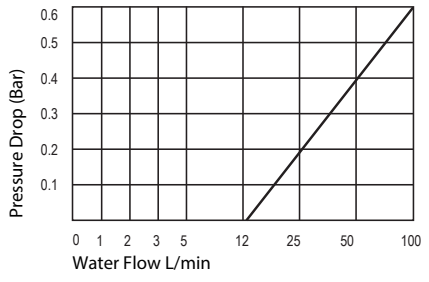
Coupling - 9 Balls

U100.12

Temperature Range : -20°C +100°C (-40°F +250°F)
Working Pressure : 0 - 10 bar (0 - 160 PSI)
Flow capacity : NW 13

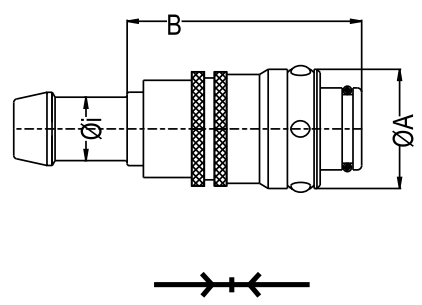
Material
 Coupler Body : Brass Nickel Plated
 Sleeve : Brass Nickel Plated
 Springs : Stainless Steel
 Locking O-Ring : Stainless Steel
 Balls : Stainless Steel
 Seals : NBR Nitrile (Ni)
 Standard version : Messing
 NBR Nitrile (Ni)
 Nickel plated
 Locking balls 9 units

Options
 B - Blue
 R - Red
 V - FPM Seal
 E - EPDM Seal
 For optional orders please add the symbol of your option end of the order no.



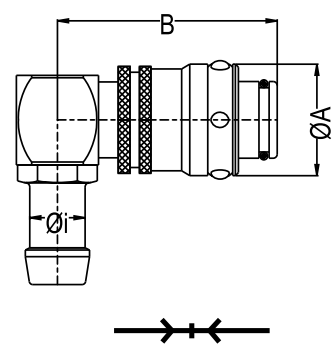
Plug - Standard hose tail plug

Ø F / Ø FI Connection		REF	Dimension in mm	
			A	B
Ø 13 mm	1/2"	U100.12 HGF 13	28	44
Ø 16 mm	5/8"	U100.12 HGF 16		



Standard hose tail plug 90°

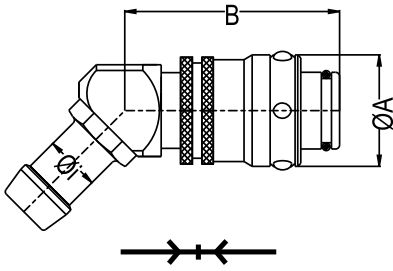
Ø F / Ø FI Connection		REF	Dimension in mm	
			A	B
Ø 13 mm	1/2"	U100.12 HGF 13-90°	28	54
Ø 16 mm	5/8"	U100.12 HGF 16-90°		



CAD reference point

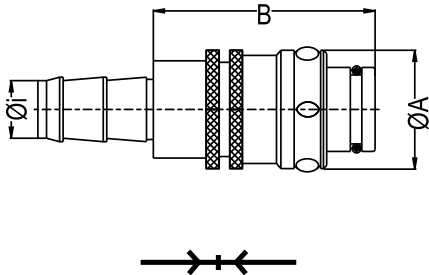
U100.12

Standard hose tail plug 135°



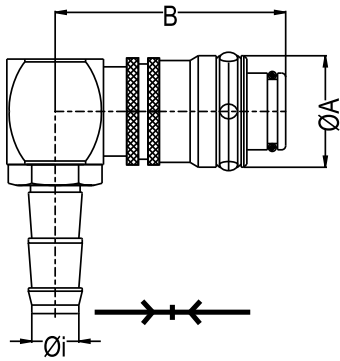
Ø F / Ø FI Connection		REF	Dimension in mm	
			A	B
Ø 13 mm	1/2"	U100.12 HGF 13-135°	28	54
Ø 16 mm	5/8"	U100.12 HGF 16-135°		

Push-lock hose tail plug



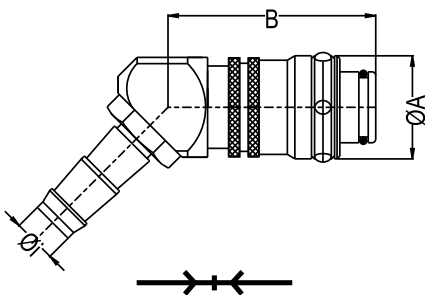
Ø F / Ø FI Connection		REF	Dimension in mm	
			A	B
Ø 13 mm	1/2"	U100.12 FGF 13	28	44
Ø 16 mm	5/8"	U100.12 FGF 16		

Push-lock hose tail plug 90°



Ø F / Ø FI Connection		REF	Dimension in mm	
			A	B
Ø 13 mm	1/2"	U100.12 FGF 13-90°	28	54
Ø 16 mm	5/8"	U100.12 FGF 16-90°		

Plug - Push-lock hose tail plug 135°

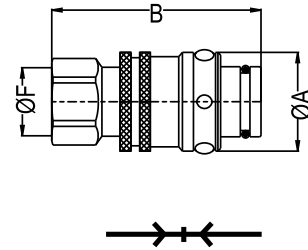


Ø F / Ø FI Connection		REF	Dimension in mm	
			A	B
Ø 13 mm	1/2"	U100.12 FGF 13-135°	28	54
Ø 16 mm	5/8"	U100.12 FGF 16-135°		

Female threaded plug

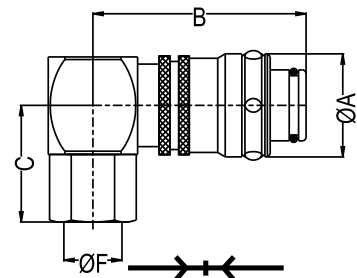
U100.12

Ø F Connection	REF	Dimension in mm		
		A	B	C/SW
BSP 1/2"	U100.12 DGF 21	28	60	24
NPT 1/2"	U100.12 NGF 21			
BSP 3/4"	U100.12 DGF 26	28	70	35
NPT 3/4"	U100.12 NGF 26			



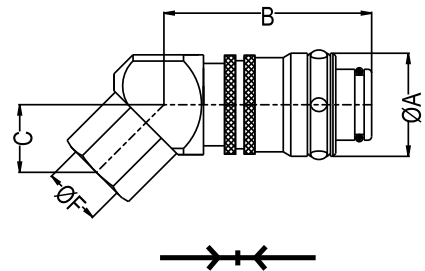
Female threaded plug 90°

Ø F Connection	REF	Dimension in mm		
		A	B	C/SW
BSP 3/8"	U100.12 DGF 17-90°	28	54	29
NPT 3/8"	U100.12 NGF 17-90°			
BSP 1/2"	U100.12 DGF 21-90°	28	54	35
NPT 1/2"	U100.12 NGF 21-90°			



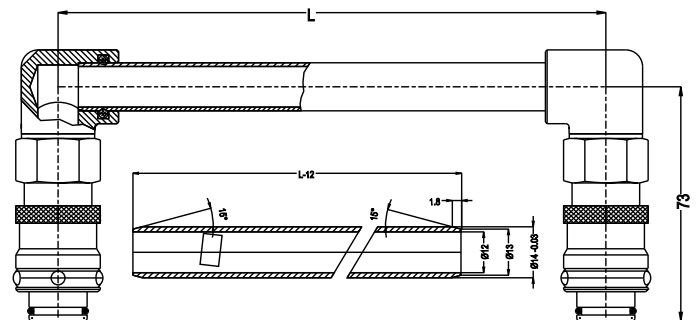
Female threaded plug 135°

Ø F Connection	REF	Dimension in mm		
		A	B	C/SW
BSP 3/8"	U100.12 DGF 17-135°	28	54	10
NPT 3/8"	U100.12 NGF 17-135°			
BSP 1/2"	U100.12 DGF 21-135°	28	54	16
NPT 1/2"	U100.12 NGF 21-135°			



Diverting connector (For U100.12)

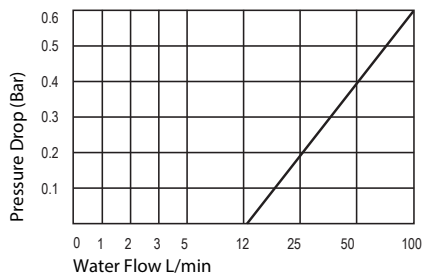
REF	L	L-24
U100.12 KG 125	125	90
U100.12 KG 250	250	250
U100.12 KG 500	500	470



Brass Tube PB 14x1

U100.12

Coupling with valve - 9 Balls



Temperature Range : -20°C +100°C (-40°F +250°F)
Working Pressure : 0 - 10 bar (0 - 160 PSI)
Flow capacity : NW 13

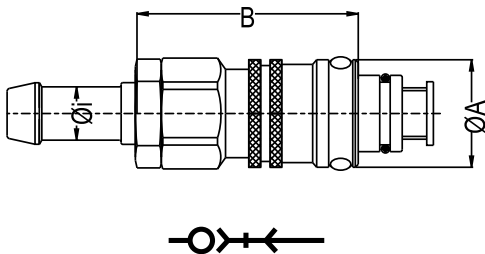
Material

Coupler Body : Brass Nickel Plated
 Sleeve : Brass Nickel Plated
 Springs : Stainless Steel
 Locking O-Ring : Stainless Steel
 Balls : Stainless Steel
 Seals : NBR Nitrile (Ni)
 Standard version : Brass
 NBR Nitrile (Ni)
 Nickel plated
 Locking balls 9 units

Options

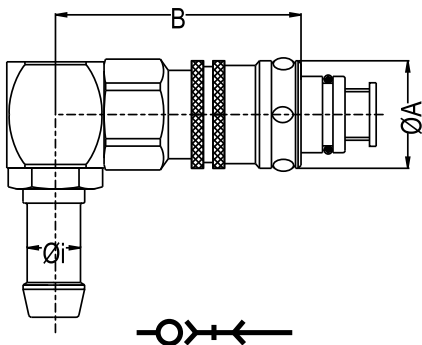
B - Blue
 R - Red
 V - FPM Seal
 E - EPDM Seal
 For optional orders please add the symbol of your option end of the order no.

Plug - Standard hose tail plug with valve



Ø F / Ø I Connection		REF	Dimension in mm	
			A	B
Ø 13 mm	1/2"	U100.12 HGB 13	28	65
Ø 16 mm	5/8"	U100.12 HGB 16		

Standard hose tail plug with valve 90°

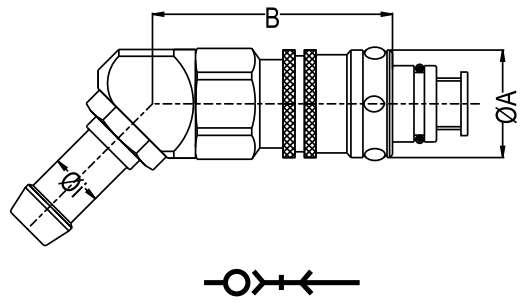


Ø F / Ø I Connection		REF	Dimension in mm	
			A	B
Ø 13 mm	1/2"	U100.12 HGB 13-90°	28	70
Ø 16 mm	5/8"	U100.12 HGB 16-90°		

Standard hose tail plug with valve 135°

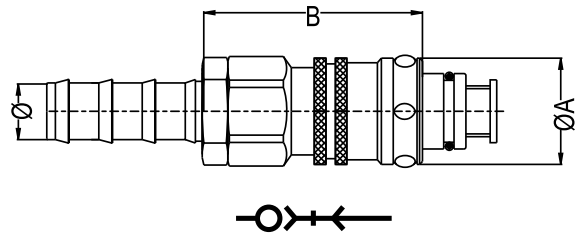
Ø Connection		REF	Dimension in mm	
			A	B
Ø 13 mm	1/2"	U100.12 HGB 13-135°	28	70
Ø 16 mm	5/8"	U100.12 HGB 16-135°		

U100.12



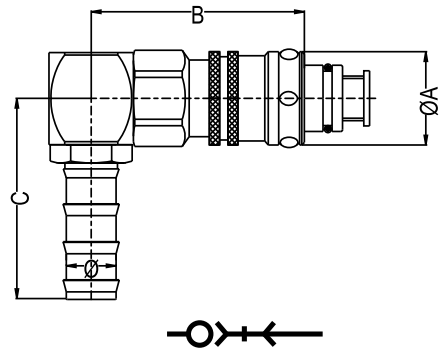
Push-lock hose tail plug with valve

Ø Connection		REF	Dimension in mm	
			A	B
Ø 13 mm	1/2"	U100.12 FGB 13	28	65
Ø 16 mm	5/8"	U100.12 FGB 16		



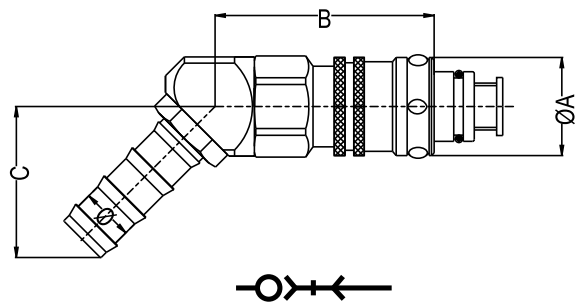
Push-lock hose tail plug with valve 90°

Ø Connection		REF	Dimension in mm	
			A	B
Ø 13 mm	1/2"	U100.12 FGB 13-90°	28	70
Ø 16 mm	5/8"	U100.12 FGB 16-90°		



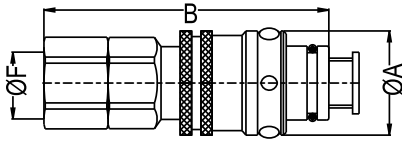
Plug - Push-lock hose tail plug with valve 135°

Ø Connection		REF	Dimension in mm	
			A	B
Ø 13 mm	1/2"	U100.12 FGB 13-135°	28	70
Ø 16 mm	5/8"	U100.12 FGB 16-135°		



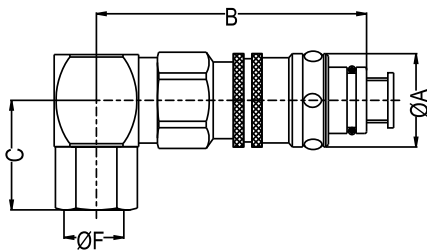
U100.12

Female threaded plug with valve



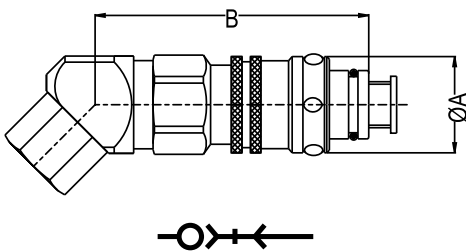
Ø F / Ø FI Connection		REF	Dimension in mm	
			A	B
BSP	1/2"	U100.12 DGB 21	28	80
NPT	1/2"	U100.12 NGB 21		

Female threaded plug with valve 90°



Ø F / Ø FI Connection		REF	Dimension in mm		
			A	B	C
BSP	3/8"	U100.12 DGB 17-90°	28	70	29
NPT	3/8"	U100.12 NGB 17-90°			
BSP	1/2"	U100.12 DGB 21-90°			
NPT	1/2"	U100.12 NGB 21-90°			

Female threaded plug with valve 135°

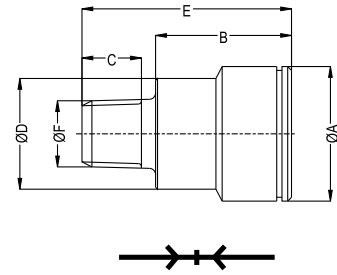


Ø F / Ø FI Connection		REF	Dimension in mm		
			A	B	C
BSP	3/8"	U100.12 DGB 17-135°	28	54	10
NPT	3/8"	U100.12 NGB 17-135°			
BSP	1/2"	U100.12 DGB 21-135°	28	54	16
NPT	1/2"	U100.12 NGB 21-135°			

Socket

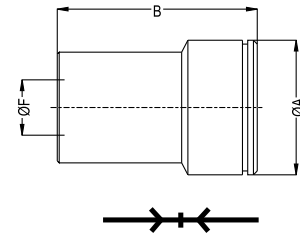
U100.12

F Thread	REF without collar	Dimension in mm					Allen SW
		A	B	C	D	E	
BSPT 3/8"	U100.12 RU 17T	32	28	11	25	41	10
BSPT 1/2"	U100.12 RU 21T		28	16	25	44	14
BSPT 3/4"	U100.12 RU 26T		13	14		32	14
NPT 3/8"	U100.12 TU 17T		28	11	25	41	3/8"
NPT 1/2"	U100.12 TU 21T		28	14	25	44	9/16"
NPT 3/4"	U100.12 TU 26T		13	14		32	9/16"

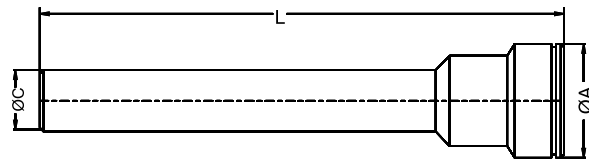
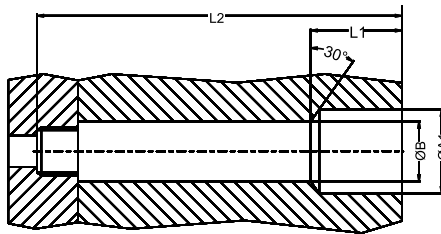


Socket

F Thread	REF without collar	Dimension in mm		Allen SW
		A	B	
BSP 3/8"	U100.12 DU 17	32	49	12
BSP 1/2"	U100.12 DU 21		50	



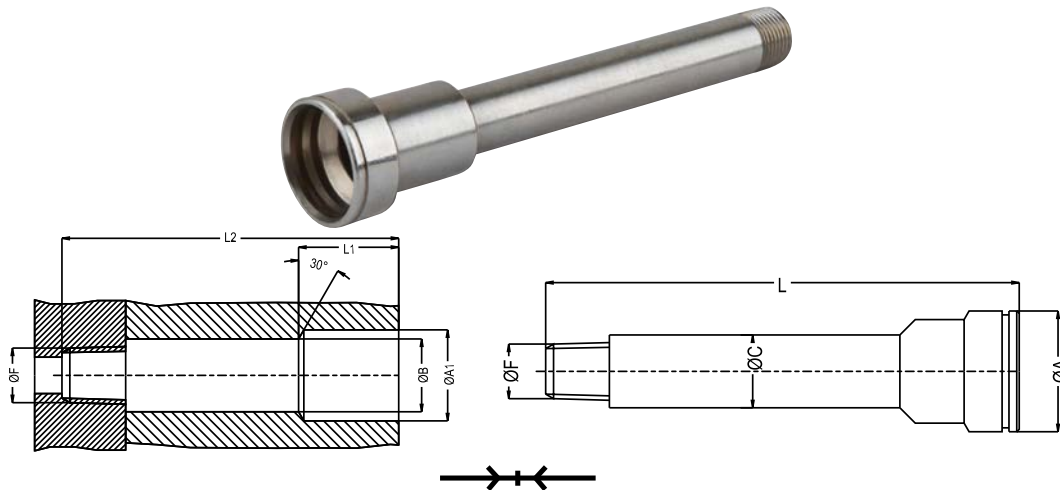
Extension Plug (Smooth version)



Series	ØC	L	REF without collar	Assembling sizes					Allen SW
				L1	L2	ØA	ØA1	ØB	
U100.12	17.2	50	U100.12-17 BU 50	41	L-8.5	32	33	18	14
		100	U100.12-17 BU 100						
		150	U100.12-17 BU 150						
		200	U100.12-17 BU 200						
		250	U100.12-17 BU 250						
U100.12	21.3	50	U100.12-21 BU 50	43	L-11.5	32	33	22	14
		100	U100.12-21 BU 100						
		150	U100.12-21 BU 150						
		200	U100.12-21 BU 200						
		250	U100.12-21 BU 250						

U100.12

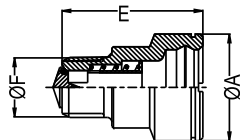
Extension (conical threaded version BSPT-NPT)



Series	F thread	L min./max.	REF without collar	Assembling sizes						Allen SW	Torque (m/daN)
				L1	L2	ØA	ØA1	ØB	ØC		
U100.12 BSPT	BSPT 3/8"	56/100	U100.12 100 R17	43	L-8.5	32	33	18	17.2	14	3
		100/150	U100.12 150 R17								
		150/200	U100.12 200 R17								
		200/250	U100.12 250 R17								
U100.12 NPT	NPT 3/8"	56/100	U100.12 100 T17	43	L-8.5	32	33	18	17.2	3/8"	3
		100/150	U100.12 150 T17								
		150/200	U100.12 200 T17								
		200/250	U100.12 250 T17								
U100.12 BSPT	BSPT 1/2"	56/100	U100.12 100 R21	45	L-11.5	32	33	22	21.3	14	5
		100/150	U100.12 150 R21								
		150/200	U100.12 200 R21								
		200/250	U100.12 250 R21								
U100.12 NPT	NPT 1/2"	56/100	U100.12 100 T21	45	L-11.5	32	33	22	21.3	3/8"	5
		100/150	U100.12 150 T21								
		150/200	U100.12 200 T21								
		200/250	U100.12 250 T21								

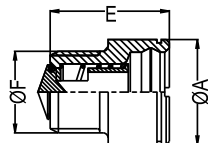
Male Threaded socket with Valve

Male thread socket with valve



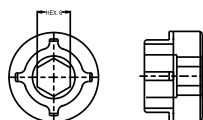
ØF Connection	REF without collar	Dimension in mm		
		ØA	L	
BSP 3/8"	U100.12 EUB 17	32	24	40.5
BSP 1/2"	U100.12 EUB 21		24	42.5
BSP 3/4"	U100.12 EUB 26		30	38.5

Male thread socket with valve



ØF Connection	REF without collar	Dimension in mm	
		ØA	L
BSP 1/2"	U100.12 DUB 21V	32	62
BSP 3/4"	U100.12 DUB 26V		

Assembling apparatus



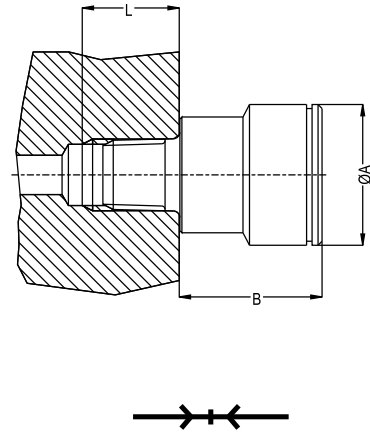
REF
U100.12 EUB 00

CAD reference point

Slightly raised socket

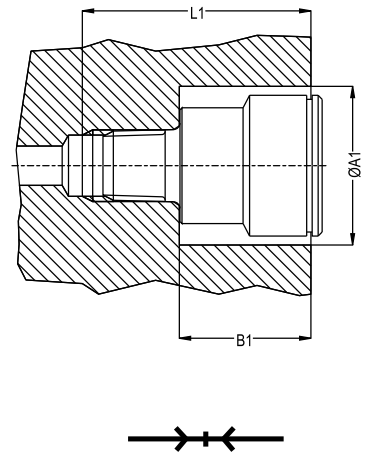
U100.12

Series	F Thread	Slightly raised socket			Allen SW	Torque (m/daN)
		0A	B	L min.		
U100.06	1/8" BSP	17	20	10	6	15
	1/4" BSP		18	13	6	30
	1/8" NPT		22	10	1/4"	15
	1/4" NPT		20	13.5	1/4"	30
U100.08	1/8" BSP	21	23	10	6	15
	1/4" BSP		22	12	8	30
	3/8" BSP		12	13	8	30
	1/8" NPT		25.5	10	1/4"	15
	1/4" NPT		24	12	5/16"	30
	3/8" NPT		14	13	5/16"	30
U100.12	3/8" BSP	32	29	13	10	50
	1/2" BSP		10	15	14	50
	3/4" BSP		15	18	14	50
	3/8" NPT		33	13	3/8"	50
	1/2" NPT		35	15	9/16"	50
	3/4" NPT		17.5	18	9/16"	50



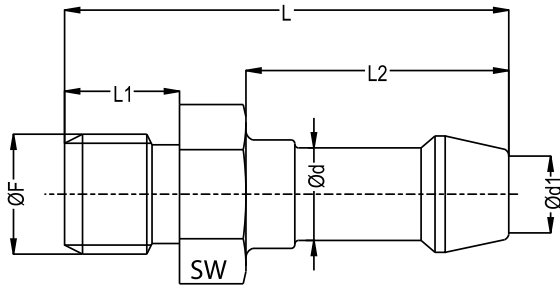
Flush mounted socket

Series	F Thread	Flush mounted socket			Allen SW	Torque (m/daN)
		0A1 min	B1	L1		
U100.06	1/8" BSP	18.5	20.5	29.5	6	15
	1/4" BSP		18.5	30.5	6	30
	1/8" NPT		22.5	31.5	1/4"	15
	1/4" NPT		20.5	33	1/4"	30
U100.08	1/8" BSP	22.5	24	33	6	15
	1/4" BSP		23	34	8	30
	3/8" BSP		13	25	8	30
	1/8" NPT		25.5	35	1/4"	15
	1/4" NPT		23.5	35.5	5/16"	30
	3/8" NPT		14	27	5/16"	30
U100.12	3/8" BSP	33.5	30	42	10	50
	1/2" BSP		31	45	14	50
	3/4" BSP		20	36	14	50
	3/8" NPT		33	46	3/8"	50
	1/2" NPT		34.5	51	9/16"	50
	3/4" NPT		17.5	36.5	9/16"	50



TAF ...

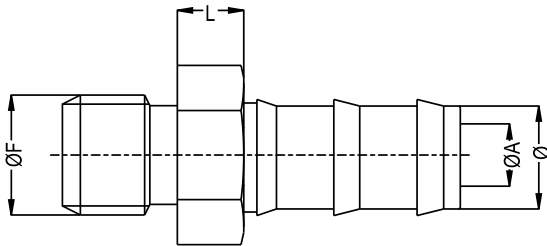
Nipple with Rubber Hose



REF	Male Thread ØF	Hose Inner	d	L	L1	L2	SW
UTAF 10.04	BSP 1/8"	4	3	38	8	23	14
UTAF 10.06		6	4				
UTAF 10.08		8	5.5				
UTAF 10.10		10	5.5				
UTAF 13.06	BSP 1/4"	6	4	41	11	28	17
UTAF 13.08		8	5.5				
UTAF 13.09		9	6				
UTAF 13.10		10	7				
UTAF 13.13	BSP 3/8"	13	8	51	11	33	17
UTAF 17.08		8	5.5				
UTAF 17.10		10	7				
UTAF 17.13		13	9				
UTAF 17.16	BSP 1/2"	16	11	52	12	33	19
UTAF 21.13		13	9				
UTAF 21.16	BSP 3/4"	16	11	54	14	33	23
UTAF 26.16		16	13				
UTAF 26.19	BSP 3/4"	19	16	58	16	33	30

EHF ...

Push Lock Hose Nipple



REF	F-Ød Connection	Ød	Ød1	L
UEHF 13-08	BSP 1/4" - Ø 7.7	1/4"	5.5	7
UEHF 13-10	BSP 1/4" - Ø 9.7	3/8"	7.5	7
UEHF 13-13	BSP 1/4" - Ø 12.7	1/2"	9.7	8
UEHF 17-10	BSP 3/8" - Ø 9.7	3/8"	12	7
UEHF 17-13	BSP 3/8" - Ø 12.7	1/2"	10	8
UEHF 17-16	BSP 3/8" - Ø 15.9	5/8"	12	8
UEHF 21-13	BSP 1/2" - Ø 12.7	1/2"	13	8
UEHF 21-16	BSP 1/2" - Ø 15.9	5/8"	16	8
UEHF 26-16	BSP 3/4" - Ø 15.9	1/2"	51	10
UEHF 26-19	BSP 3/4" - Ø 15.9	3/4"	47	10

Water Drain Gun From the Mold

UTS ...



Series	REF
U100.08	UTS10008
U100.12	UTS10012

Water Drain Gun From the Injection Machine

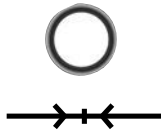
UTSM ...



Series	REF
U100.08	UTSM10008
U100.12	UTSM10012

UCG ...

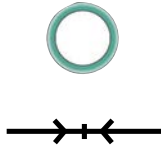
Spare O-Ring (NBR) - Nitril (N)



Series	REF	Temperature	Quantity
U100.06	UCG 100.06N	-15°C / +100°C	25
U100.08	UCG 100.08N	-4°F / +212°F	
U100.12	UCG 100.12N	-4°F / +212°F	

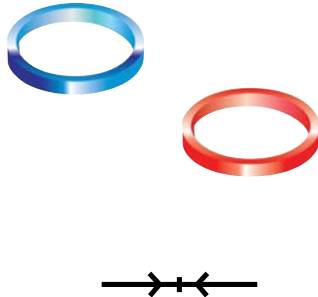
UCG ...

Spare O-Ring (NBR) - Viton (V)



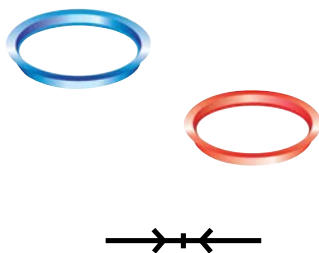
Series	REF	Temperature	Quantity
U100.06	UCG 100.06V	-15°C / +200°C	25
U100.08	UCG 100.08V	-4°F / +392°F	
U100.12	UCG 100.012V	-4°F / +392°F	

Color identification Rings for Sockets



Series	REF	Color	Quantity
U100.06	U100.06 KB	blue	25
U100.08	U100.08 KB		
U100.12	U100.12 KB		
U100.06	U10006KR	red	
U100.08	U10008KR		
U100.12	U10012KR		

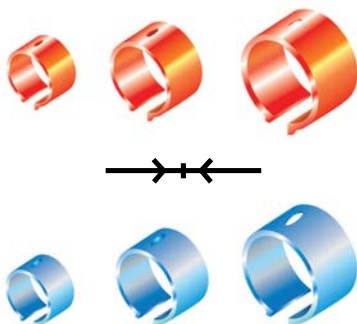
Color identification Rings for Nippels



Series	REF	Color	Quantity
U100.06	U10006SB	blue	25
U100.08	U10008SB		
U100.12	U10012SB		
U100.06	U10006SR	red	
U100.08	U10008SR		
U100.12	U10012SR		

URH ... / UBH ...

Color identification collar for hoses



Hose Outer Dia.	REF	Color	Quantity
Ø 13 to 17 mm	URH 13	red	25
Ø 17 to 24 mm	URH 17		
Ø 24 to 28 mm	URH 24		
Ø 13 to 17 mm	UBH 13	blue	
Ø 17 to 24 mm	UBH 17		
Ø 24 to 28 mm	UBH 24		

The collar has numbers from 0 to 9 (Standard stock item = 0) when ordering please add the number of colour end of the order no. Examples: URH 13.0 (0 Number Red Collar for 13 mm hoses) Packaging: Bag of 25 red or blue collars of the same numbers





U101 Series

For plastic injection molding, heat transfer fluids and all industrial applications

Using Area :

- On cooling system of plastic zamak and aluminium injection molds
- On mold temperature control lines of termoplastic injection molding
- On water cooling circuit of welding machines
- On cleaning and washing systems of machines
- On hot oil lines connections
- All industries
- On steam lines

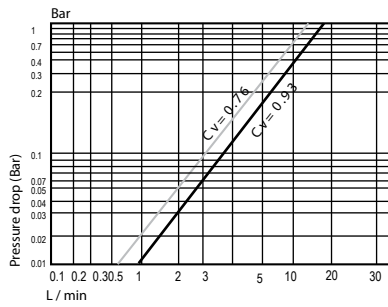
Tecnical Specifications:

Single or double shut-off U101.16 plug body manufactured from stainless steel and hardened U101.20 - U101.25 - U101.38 plug body manufactured from stainless steel The O-ring for all 101 serie couplers are Fluorocarbon FPM (V).



U101.06

Quick couplings for mold and general industry



— Double Shut-off
 — Single Shut-off



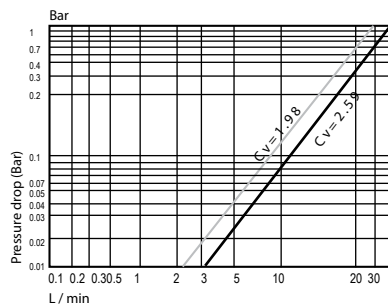
Material
 Coupler Body: Brass
 Sleeve: Stainless Steel(AISI 420)
 Valve: Brass
 Springs: Stainless Steel
 Balls: Stainless Steel
 Seals: Fluorocarbon FPM (V)
 Plug: Brass Nickel Plated

Flow direction: Plug to socket
 Oil Viscosity at 40°: C:13.4 cst

Ø Nominal (mm)		6
Working Pressure (bar)		16
Cross section (mm ²)		28,3
Number of the Balls		6
Working Temperature	V - Viton (FPM)	-10°C +200°C
	E - Ethylene Prop. (EPDM)	-20°C +150°C
	Ni - Nitrile (NBR)	-15°C +100°C
Flowing	Single Shut-Off	→×←
	Double Shut-Off	→××←
	Full Flow	→××←

U101.09

Quick couplings for mold and general industry



— Double Shut-off
 — Single Shut-off



Material
 Coupler Body: Brass
 Sleeve: Stainless Steel(AISI 420)
 Valve: Brass
 Springs: Stainless Steel
 Balls: Stainless Steel
 Seals: Fluorocarbon FPM (V)
 Plug: Brass Nickel Plated

Flow direction: Plug to socket
 Oil Viscosity at 40°: C:13.4 cst

Ø Nominal (mm)		9
Working Pressure (bar)		16
Cross section (mm ²)		63,9
Number of the Balls		6
Working Temperature	V - Viton (FPM)	-10°C +200°C
	E - Ethylene Prop. (EPDM)	-20°C +150°C
	Ni - Nitrile (NBR)	-15°C +100°C
Flowing	Single Shut-Off	→×←
	Double Shut-Off	→××←
	Full Flow	→××←

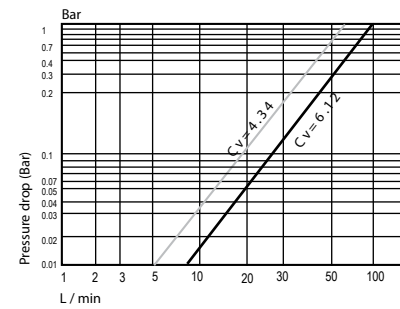
Quick couplings for mold and general industry

U101.12

Material

Coupler Body: Brass
 Sleeve: Stainless Steel(AISI 420)
 Valve: Brass
 Springs: Stainless Steel
 Balls: Stainless Steel
 Seals: Fluorocarbon FPM (V)
 Plug: Brass Nickel Plated

Flow direction: Plug to socket
 Oil Viscosity at 40°: C:13.4 cst



— Double Shut-off
 — Single Shut-off

Ø Nominal (mm)		12
Working Pressure (bar)		16
Cross section (mm ²)		113
Number of the Balls		6
Working Temperature	V - Viton (FPM)	-10°C +200°C
	E - Ethylene Prop. (EPDM)	-20°C +150°C
	Ni - Nitrile (NBR)	-15°C +100°C
Flowing	Single Shut-Off	→→←←
	Double Shut-Off	→→←←
	Full Flow	→←←→



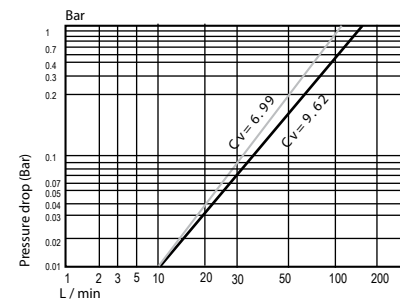
Quick couplings for mold and general industry

U101.16

Material

Coupler Body: Brass
 Sleeve: Stainless Steel(AISI 420)
 Valve: Brass
 Springs: Stainless Steel
 Balls: Stainless Steel
 Seals: Fluorocarbon FPM (V)
 Plug: Brass Nickel Plated

Flow direction: Plug to socket
 Oil Viscosity at 40°: C:13.4 cst



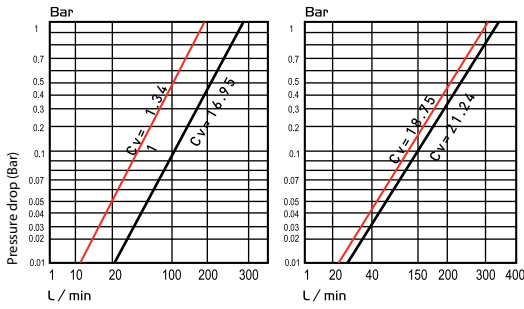
— Double Shut-off
 — Single Shut-off

Ø Nominal (mm)		16
Working Pressure (bar)		16
Cross section (mm ²)		201
Number of the Balls		12
Working Temperature	V - Viton (FPM)	-10°C +200°C
	E - Ethylene Prop. (EPDM)	-20°C +150°C
	Ni - Nitrile (NBR)	-15°C +100°C
Flowing	Single Shut-Off	→→←←
	Double Shut-Off	→→←←
	Full Flow	→←←→



U101.20 / U101.25

Quick couplings for mold and general industry



Material
 Coupler Body: Brass Nickel plated
 Sleeve: Stainless Steel (AISI 420)
 Valve: Brass Nickel plated
 Springs: Stainless Steel
 Balls: Stainless Steel
 Seals: Fluorocarbon FPM (V)
 Plug: Stainless Steel (AISI 420)
 Flow direction: Plug to socket
 Oil Viscosity at 40°: C:13.4 cst

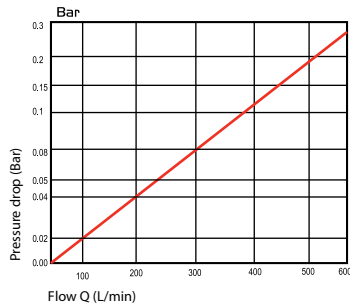
- Double Shut-off
- Single Shut-off



Ø Nominal (mm)	20	25
Working Pressure (bar)	16	16
Cross section (mm ²)	314	314
Number of the Balls	12	12
Working Temperature	V - Viton (FPM)	-10°C +200°C
	E - Ethylene Prop. (EPDM)	-20°C +150°C
	Ni - Nitrile (NBR)	-15°C +100°C
Flowing	Single Shut-Off	—○→←
	Double Shut-Off	—○→←○
	Full Flow	—→←

U101.38

Quick couplings for mold and general industry



Material
 Coupler Body: Brass Nickel plated
 Sleeve: Stainless Steel (AISI 420)
 Valve: Brass Nickel plated
 Springs: Stainless Steel
 Balls: Stainless Steel
 Seals: Fluorocarbon FPM (V)
 Plug: Stainless Steel (AISI 420)
 Flow direction: Plug to socket
 Oil Viscosity at 38°: C:43 cst

- Double Shut-off
- Single Shut-off

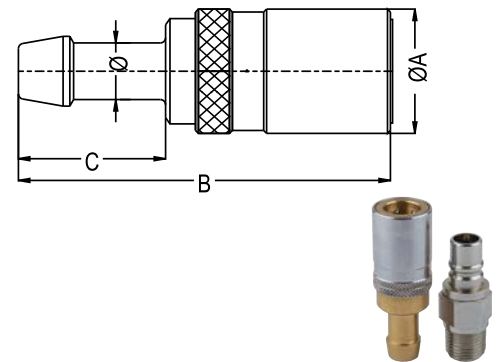


Ø Nominal (mm)	38	
Working Pressure (bar)	16	
Cross section (mm ²)	1130	
Number of the Balls	14	
Working Temperature	V - Viton (FPM)	-10°C +200°C
	E - Ethylene Prop. (EPDM)	-20°C +150°C
	Ni - Nitrile (NBR)	-15°C +100°C
Flowing	Single Shut-Off	—○→←
	Double Shut-Off	—○→←○
	Full Flow	—→←

Coupler with hose tail

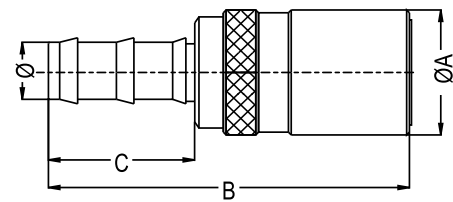
U101.06 - 09 - 12 - 16

NW Size mm	Ø Connection	Single & double shut-off REF	Full Flow REF	0A	B	C
6	08 - 5/16"	U101.06 HGB 08	U101.06 HGF 08	19	60	23
9	12 - 15/32"	U101.09 HGB 12	U101.09 HGF 12	25	69.5	28
12	13 - 1/2"	U101.12 HGB 13	U101.12 HGF 13	31	82	28
	16 - 5/8"	U101.12 HGB 16	U101.12 HGF 16			
16	16 - 5/8"	U101.16 HGB 16	U101.16 HGF 16	32	109	28
	19 - 3/4"	U101.16 HGB 19	U101.16 HGF 19		108.5	
	19 - 3/4"		U101.16 HGF 19SP		88	



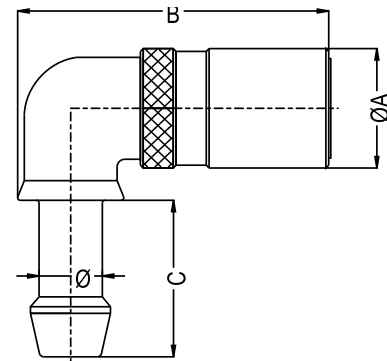
Push lock coupler with hose tail

NW Size mm	Ø Connection	Single & double shut-off REF	Full Flow REF	0A	B	C
6	10 - 3/8"	U101.06 FGB 10	U101.06 FGF 10	19	60	24
9	10 - 3/8"	U101.09 FGB 10	U101.09 FGF 10	25	69.5	24
12	13 - 1/2"	U101.09 FGB 13	U101.09 FGF 13	25	69.5	28
	13 - 1/2"	U101.12 FGB 13	U101.12 FGF 13	31	92	
	11 - 5/8"	U101.16 FGB 16	U101.16 FGF 16	32	109	
16	19 - 3/4"	U101.16 FGB 19	U101.16 FGF 19	38	109	38



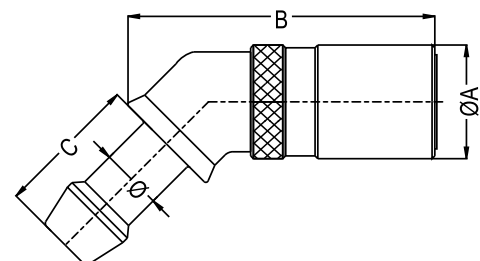
Coupler with hose tail 90°

NW Size mm	Ø Connection	Single & double shut-off REF	Full Flow REF	0A	B	C
6	08 - 5/16"	U101.06 HGB 08-90°	U101.06 HGF 08-90°	19	59	23
9	10 - 3/8"	U101.09 HGB 10-90°	U101.09 HGF 10-90°	25	60	28
	12 - 15/32"	U101.09 HGB 12-90°	U101.09 HGF 12-90°		65	
12	16 - 5/8"	U101.12 HGB 16-90°	U101.12 HGF 16-90°	31	82	28
16	19 - 3/4"	U101.16 HGB 19-90°	U101.16 HGF 19-90°	38	132	60



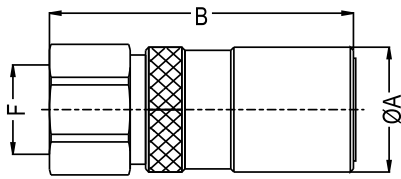
Coupler with hose tail 135°

NW Size mm	Ø Connection	Single & double shut-off REF	Full Flow REF	0A	B	SW
6	08 - 5/16"	U101.06 HGB 08-135°	U101.06 HGF 08-135°	19	59	23



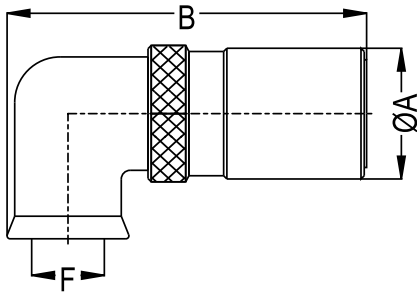
U101.06 - 09 - 12 - 16

Coupler with female thread



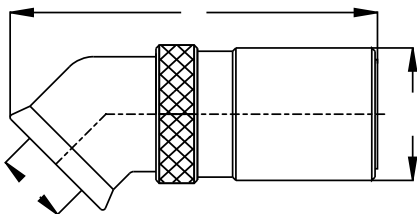
NW Size mm	Ø Connection	Single & double shut-off REF	Full Flow REF	ØA	B	SW
6	BSP 1/4"	U101.06 DGB 13	U101.06 DGF 13	19	46	17
	NPT 1/4"	U101.06 NGB 13	U101.06 NGF 13			
9	BSP 3/8"	U101.09 DGB 17	U101.09 DGF 17	25	53	22
	NPT 1/4"	U101.09 NGB 17	U101.09 NGF 17		51	
12	BSP 1/2"	U101.12 DGB 21	U101.12 DGF 21	31	67	27
	NPT 1/2"	U101.12 NGB 21	U101.12 NGF 21		65	
16	BSP 3/4"	U101.16 DGB 26	U101.16 DGF 26	38	90.5	35
	BSP 3/4"		U101.16 NGF 26SP		55	
	NPT 3/4"	U101.16 NGB 26	U101.16 NGF 26		88.5	

Coupler with female thread 90°



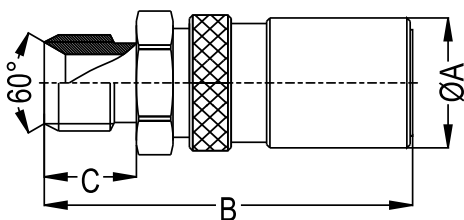
NW Size mm	Ø Connection	Single & double shut-off REF	Full Flow REF	ØA	B
6	BSP 1/4"	U101.06 DGB 13-90°	U101.06 DGF 13-90°	19	59
	NPT 1/4"	U101.06 NGB 13-90°	U101.06 NGF 13-90°		
9	BSP 3/8"	U101.09 DGB 17-90°	U101.09 DGF 17-90°	25	65
	NPT 3/8"	U101.09 NGB 17-90°	U101.09 NGF 17-90°		
12	BSP 1/2"	U101.12 DGB 21-90°	U101.12 DGF 21-90°	31	82
	NPT 1/2"	U101.12 NGB 21-90°	U101.12 NGF 21-90°		

Coupler with female thread 135°



NW Size mm	Ø Connection	Single & double shut-off REF	Full Flow REF	ØA	B
6	BSP 1/4"	U101.06 DGB 13-135°	U101.06 DGF 13-135°	19	59

Coupler with male thread

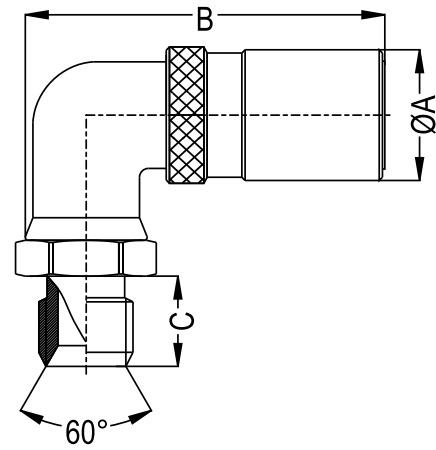


NW Size mm	Ø Connection	Single & double shut-off REF	Full Flow REF	ØA	B	SW
6	BSP 1/4"	U101.06 EGB 13	U101.06 EGF 13	19	55	17
	BSP 3/8"	U101.09 EGB 17	U101.09 EGF 17	25	61	22
12	BSP 1/2"	U101.12 EGB 21	U101.12 EGF 21	31	72	27
16	BSP 3/4"	U101.16 EGB 26	U101.16 EGF 26	38	115.5	32

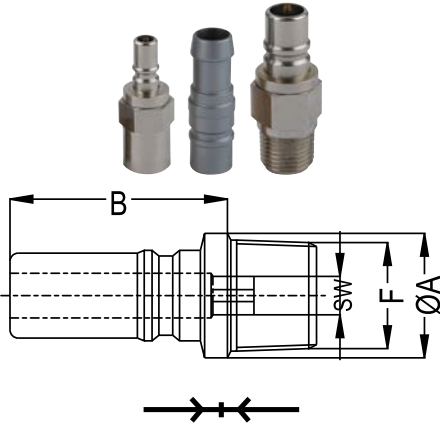
Coupler with male thread 90°

U101.06 - 09 - 12 - 16

NW Size mm	Ø Connection	Single & double shut-off REF	Full Flow REF	ØA	B	SW
6	BSP 1/4"	U101.06 EGB 13-90°	U101.06 EGF 13-90°	19	55	17
9	BSP 3/8"	U101.09 EGB 17-90°	U101.09 EGF 17-90°	25	61	22
12	BSP 1/2"	U101.12 EGB 21-90°	U101.12 EGF 21-90°	31	72	27
16	BSP 3/4"	U101.16 EGB 26-90°	U101.16 EGF 26-90°	38	115.5	32



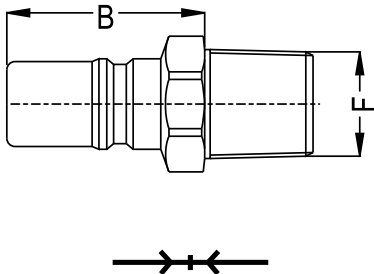
U101. ...



Tapered male threaded plugs

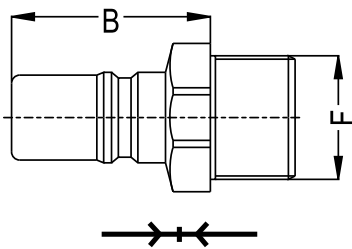
NW size mm	Connection F/O	REF	B	ØD	SW
6	BSPT 1/8"	U101.06 RU 10	21	10	5
	BSPT 1/4"	U101.06 RU 13		11	
	NPT 1/8"	U101.06 TU 10			
	NPT 1/4"	U101.06 TU 13			
9	BSPT 1/4"	U101.09 RU 13	21	14	8
	BSPT 3/8"	U101.09 RU 17		17	
	NPT 1/4"	U101.09 RU 13	23		8
	NPT 3/8"	U101.09 RU 17			
12	BSPT 3/8"	U101.12 RU 17	26	18	10

Tapered male threaded plugs



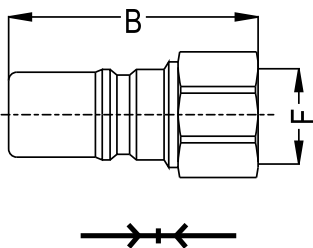
NW size mm	Connection F/O	REF	B	SW
12	BSPT 1/2"	U101.12 RU 21	51.5	24
	NPT 3/8"	U101.12 RU 17	28	
	NPT 1/2"	U101.12 TU 21	38	
16	BSPT 1/2"	U101.16 TU 21	39	24
	BSPT 3/4"	U101.16 RU 26	41.5	27

Male threaded plugs



NW size mm	Connection F/O	REF	B	SW
9	BSP 1/2"	U101.09 EU 21	25	22
12	BSP 3/4"	U101.12 EU 26	30	27
16	BSP 1"	U101.16 EU 33	38	32
	M24x1.5	U101.16 EUM 26	41.5	27

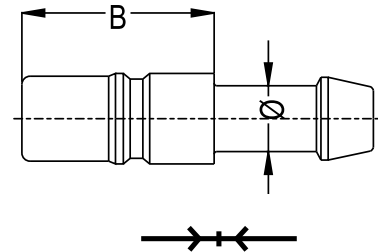
Female threaded plugs



NW size mm	Connection F/O	REF	B	SW
6	BSP 1/4"	U101.06 DU 13	34	17
	NPT 1/4"	U101.06 NU 13	47	
9	BSP 3/8"	U101.09 DU 17	37	22
	NPT 3/8"	U101.09 NU 17	49	
12	BSP 1/2"	U101.12 DU 21	45	27
	NPT 1/2"	U101.12 NU 21	67	
16	BSP 3/4"	U101.16 DU 26	58	32
	NPT 3/4"	U101.16 NU 26	80	

Hose tail plug

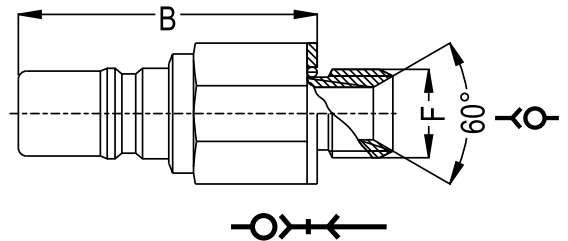
NW size mm	Connection F/O	REF	B
6	08 5/16"	U101.06 HU 08	24.5
9	012 15/21"	U101.09 HU 26	25.5
12	016 5/8"	U101.12 HU 16	30
16	019 3/4"	U101.16 HU 19	37



U101. ...

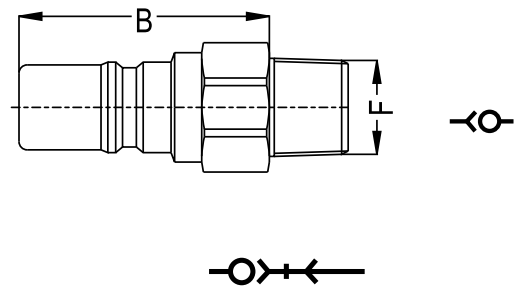
Male threaded shut-off plugs with parallel tread

NW size mm	Connection F/O	REF	B	SW
6	BSP 1/8"	U101.06 OUB 10	38	17
	BSP 1/4"	U101.06 OUB 13	36	
9	BSP 1/4"	U101.09 OUB 13	42	19
	BSP 3/8"	U101.09 OUB 17	38	20
12	BSP 3/8"	U101.12 OUB 17	53.5	24
	BSP 1/2"	U101.12 OUB 21	50	
16	BSP 3/4"	U101.16 OUB 26	67	32



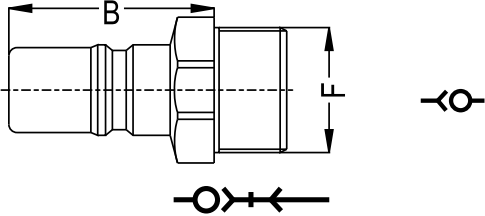
Tapered male shut-off threaded plugs

NW size mm	Connection F/O	REF	B	SW
6	BSPT 1/8"	U101.06 RUB 10	36	17
	BSPT 1/4"	U101.06 RUB 13	33	
	NPT 1/8"	U101.06 TUB 10	36	
	NPT 1/4"	U101.06 TUB 13	33	
9	BSPT 1/4"	U101.09 RUB 13	39	19
	BSPT 3/8"	U101.09 RUB 17	39.5	
	NPT 1/4"	U101.09 TUB 13	39	
12	NPT 3/8"	U101.09 TUB 17	35.5	24
	BSPT 3/8"	U101.12 RUB 17	51.5	
	BSPT 1/2"	U101.12 RUB 21	46	
	NPT 3/8"	U101.12 TUB 17	51.5	
16	NPT 1/2"	U101.12 TUB 21	46	32
	BSPT 3/4"	U101.16 RUB 26	62	
	NPT 3/4"	U101.16 TUB 26		



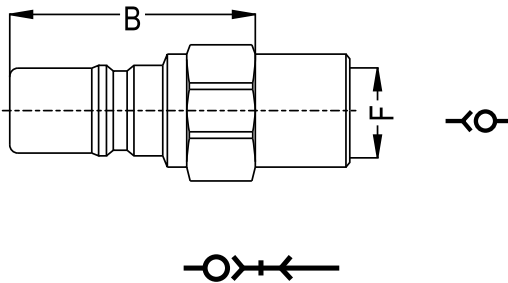
U101. ...

BSP male threaded shut-off plugs



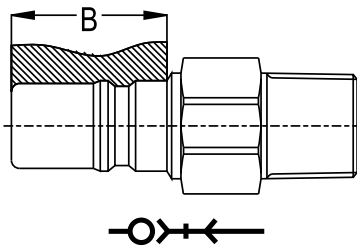
NW size mm	Connection F/O	REF	B	SW
6	BSP 3/8"	U101.06 EUB 17	26	19
9	BSP 1/2"	U101.09 EUB 21	25	22
12	BSP 3/4"	U101.12 EUB 26	30	27
16	BSP 1"	U101.16 EUB 33	38	32

Female threaded shut-off plugs



NW size mm	Connection F/O	REF	B	SW
6	BSP 1/4"	U101.06 DUB 13	47	17
6	NPT 1/4"	U101.06 NUB 13	47	
9	BSP 1/4"	U101.09 DUB 13	48.5	19
	NPT 1/4"	U101.09 NUB 13	48.5	19
	BSP 3/8"	U101.09 DUB 17	49	22
12	NPT 1/2"	U101.12 NUB 21	85	27
16	BSP 3/4"	U101.16 DUB 26	81	32
	NPT 3/4"	U101.16 NUB 26		

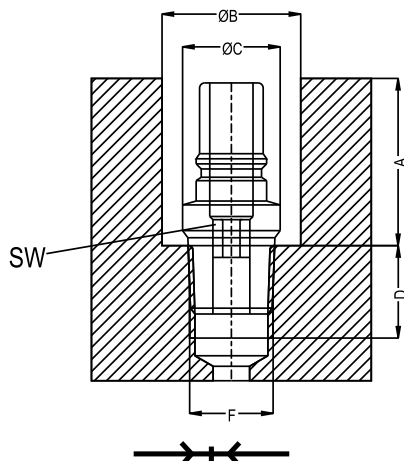
Connecting size



NW size mm	REF	B
6	U101.06	17.5
9	U101.09	18.5
12	U101.12	23
16	U101.16	30

Assembly

Tapered male threaded plugs

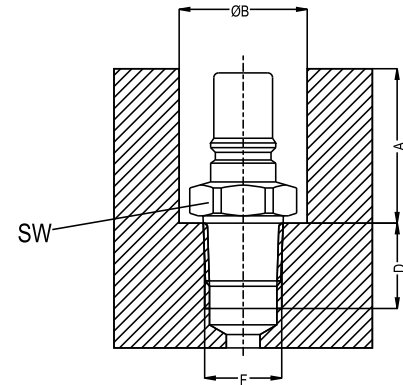


NW size mm	Connection F/O	REF	B	ØB	ØC	D	SW
6	BSPT 1/8"	U101.06 RU 10	26	20	10	9	5
	NPT 1/8"	U101.06 TU 10	28		11		
6	BSPT 1/4"	U101.06 RU 13	27	20	14	12	5
	NPT 1/4"	U101.06 TU 13				13	
9	BSPT 1/4"	U101.09 RU 13	26	26	14	12	8
	NPT 1/4"	U101.09 TU 13				13	
9	BSPT 3/8"	U101.09 RU 17	28	26	17	13	8
	NPT 3/8"	U101.09 TU 17					
12	BSPT 3/8"	U101.12 RU 17	31	33	18	13	10

Tapered male threaded plugs

NW size mm	Connection F/O	REF	B	OB	D	SW
12	NPT 3/8"	U101.12 TU 17	55	36	11	24
	BSPT 1/2"	U101.12 RU 21	34	33	15	22
	NPT 1/2"	U101.12 TU 21				
16	BSPT 3/4"	U101.16 RU 26	50	40	19	27

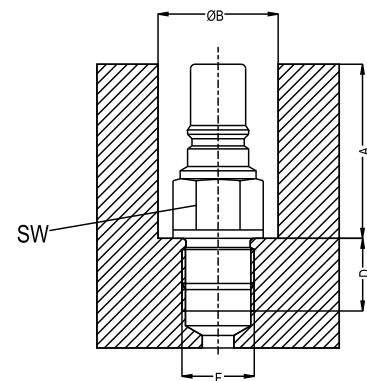
Assembly



Shut-off plug with cylindrical male thread

NW size mm	Connection F/O	REF	B	OB	D	SW
6	BSP 1/8"	U10106EUB10	41	26	9	17
	BSP 1/4"	U10106EUB13	38		12	
9	BSP 1/4"	U10109EUB13	44	29	12	19
	BSP 3/8"	U10109EUB17	40	30	13	20
12	BSP 3/8"	U10112EUB17	56	36	13	24
	BSP 1/2"	U10112EUB21	52		15	
16	BSP 3/4"	U10116EUB26	70	46	16	32

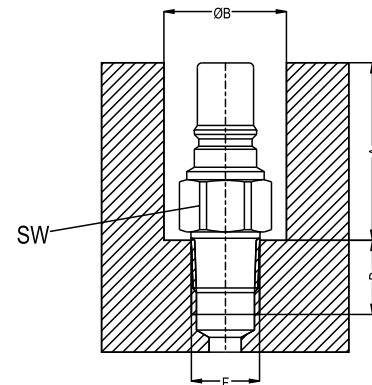
Assembly



Shut-off plug with cylindrical male thread

NW size mm	Connection F/O	REF	B	OB	OC	D	SW
6	BSPT 1/8"	U101.06 RUB 10	42	26	9	9	17
	NPT 1/8"	U101.06 TUB 10				13	17
	BSPT 1/4"	U101.06 RUB 13	38	26	13	13	17
	NPT 1/4"	U101.06 TUB 13				13	19
9	BSPT 1/4"	U101.09 RUB 13	44	29	13	13	19
	NPT 1/4"	U101.09 TUB 13				13	19
	BSPT 3/8"	U101.09 RUB 17	40	29	13	13	19
	NPT 3/8"	U101.09 TUB 17				13	19
12	BSPT 3/8"	U101.12 RUB 17	56	36	13	13	24
	NPT 3/8"	U101.12 TUB 17				13	24
	BSPT 1/2"	U101.12 RUB 21	52	36	15	15	24
	NPT 1/2"	U101.12 TUB 21				15	24
16	BSPT 3/4"	U101.16 RUB 26	70	46	16	16	32
	NPT 3/4"	U101.16 RUB 26				16	32

Assembly



U101....

Coupler and plug



Standard version

Viton O-ring (FPM)
Double shut-off

Options

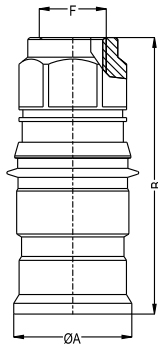
E - EPDM seal
F - Through flow

For optional orders please add the symbol of your option at the end of the REF

Material

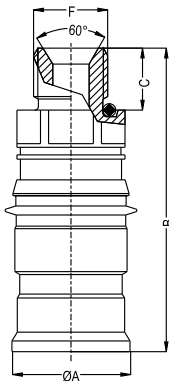
Coupler Body: Brass
Sleeve: Stainless Steel
Valve: Brass
Springs: Stainless Steel
Balls: Stainless Steel
Seals: Viton (V)
Plug: Stainless Steel

Shut-off coupler with female thread



Size mm	Connection F/O	REF	0A	B	SW
20	BSPT 3/4"	U101.20 DGB 26	53	119.5	42
	NPT 3/4"	U101.20 NGB 26			
	BSP 1"	U101.20 DGB 33			
	NPT 1"	U101.20 NGB 33			
25	BSP 1"	U101.25 DGB 33	60	140	50
	BSP 1" 1/4	U101.25 DGB 42			
38	BSP 1" 1/2	U101.38 DGB 48	82	158	70
	BSP 2"	U101.38 DGB 60			

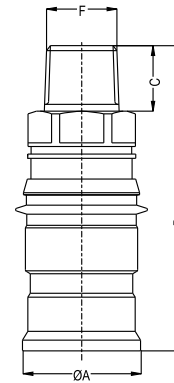
Shut-off coupler with male parallel thread



Size mm	Connection F/O	REF	0A	B	C	SW
20	BSP 1"	U101.20 EGB 33	53	132	20	42
25	BSP 1"	U101.20 EGB 33	60	144	20	50
	BSP 1" 1/4	U101.20 EGB 42			21	
38	BSP 1" 1/2	U101.20 EGB 48	82	167	24	70

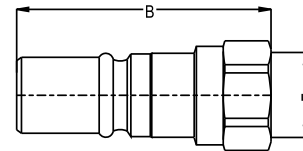
NPT Male threaded shut-off coupler

Size mm	Connection F/O	REF	ØA	B	C	SW
20	NPT 1"	U101.20 TGB 33	53	132	20	42
25	NPT 1"	U101.25 TGB 33	60	144	20	50
25	NPT 1"1/2	U101.25 TGB 48	60	148.5	24.5	50
38	NPT 1"1/2	U101.38 TGB 48	82	167	24.5	70
38	NPT 2"	U101.38 TGB 60	82	167	24.5	70



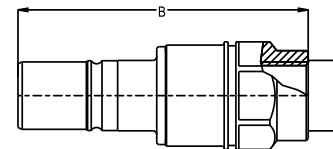
Plug with female thread

Size mm	Connection F/O	REF	B	SW
20	BSP 1"	U101.20 DU 33	92	41
25	BSP 1"	U101.25 DU 33	100	41
38	BSP 1"1/2	U101.38 DU 48	110	65



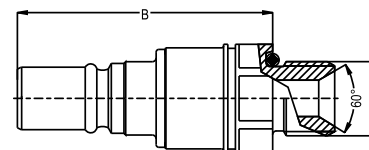
Shut-off plug with female thread

Size mm	Connection F/O	REF	B	SW
20	BSP 3/4"	U101.20 DUB 26	126.5	42
	BSP 1"	U101.20 DUB 33		
	NPT 1"	U101.20 NUB 33		
25	BSP 1"	U101.25 DUB 33	148.5	50
	BSP 1"1/4	U101.25 DUB 42	158	
38	BSP 1"1/2	U101.38 DUB 48	156	70
	BSP 2"	U101.38 DUB 60		



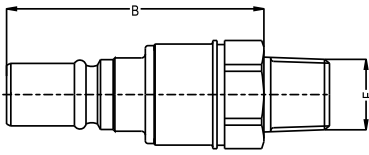
Shut-off plug with male parallel thread

Size mm	Connection F/O	REF	B	SW
20	BSP 1"	U101.20 EUB 33	120	42
25	BSP 1"	U101.25 EUB 33	127	50
	BSP 1"1/4	U101.25 EUB 42	131.5	
38	NPT 1"1/2	U101.38 EUB 48	156	70
	NPT 2"	U101.38 EUB 60	161	



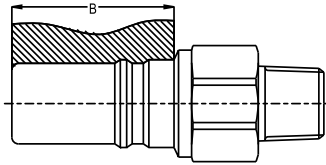
U101. ...

NPT Male threaded shut-off plug



Size mm	Connection F/O	REF	B	SW
20	NPT 1"	U101.20 TUB 33	120	42
25	NPT 1"	U101.25 TUB 33	127	50
	NPT 1"1/2	U101.25 TUB 48	131.5	
38	NPT 1"1/2	U101.38 TUB 48	156	70
	NPT 2"	U101.38 TUB 60	161	

Connecting size

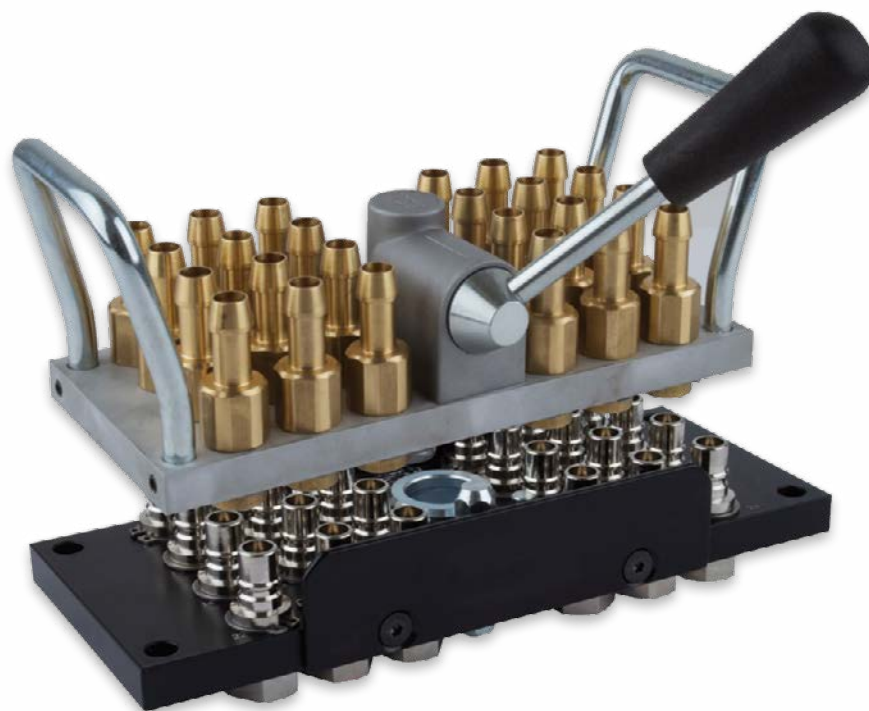


Size mm	REF	B
20	U101.20	60
25	U101.25	72.5
38	U101.38	75



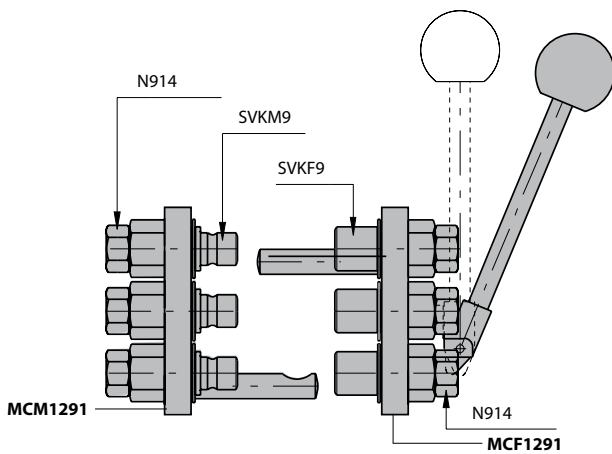
Multi Couplings

DME Multi coupling systems are applicable for quick changing of injection molding and die cast equipments.
This system avoids wrong connections in a quick and simple way.

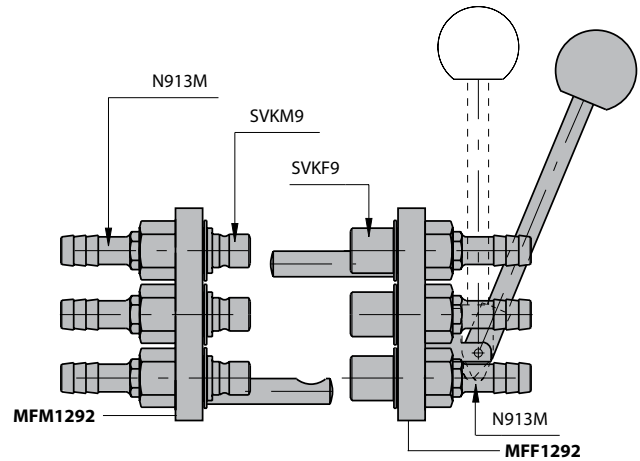


MCM - MCF - MFM - MFF

Multi-Coupling System 6 + 6 couplings



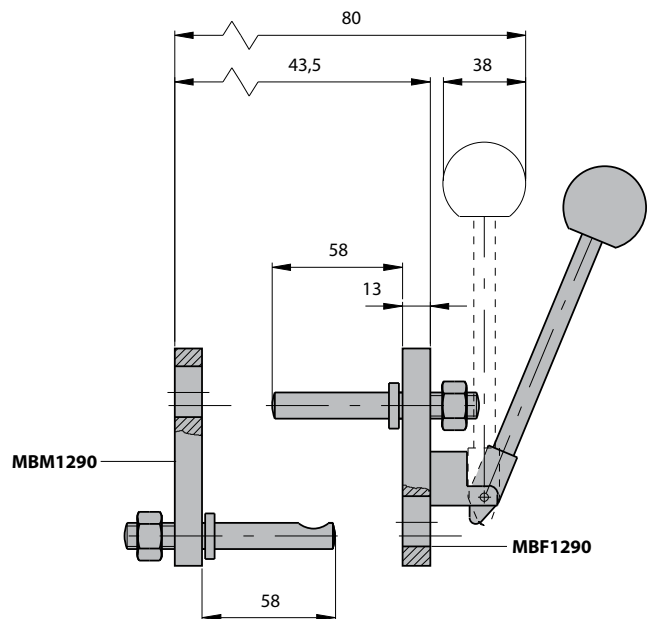
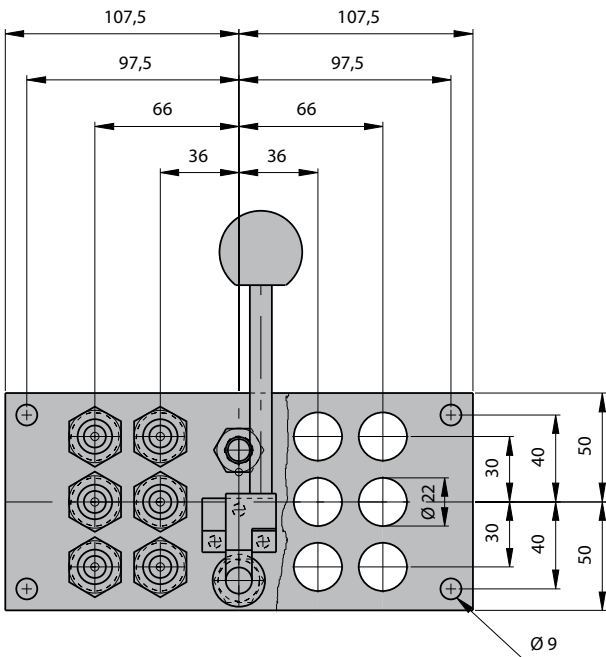
REF	Plug	Thread	Position
MCM1291	N914	1/4" BSP	mold side
MCF1291	N914	1/4" BSP	injection machine side



REF	Plug	Connection	Position
MFM1292	N913M	Ød 13 mm	mold side
MFF1292	N913M	Ød 13 mm	injection machine side

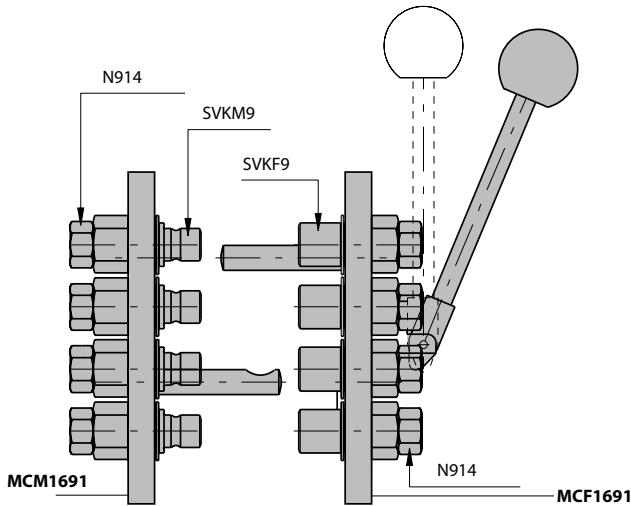
MBM - MBF

Plate for 6 + 6 couplings



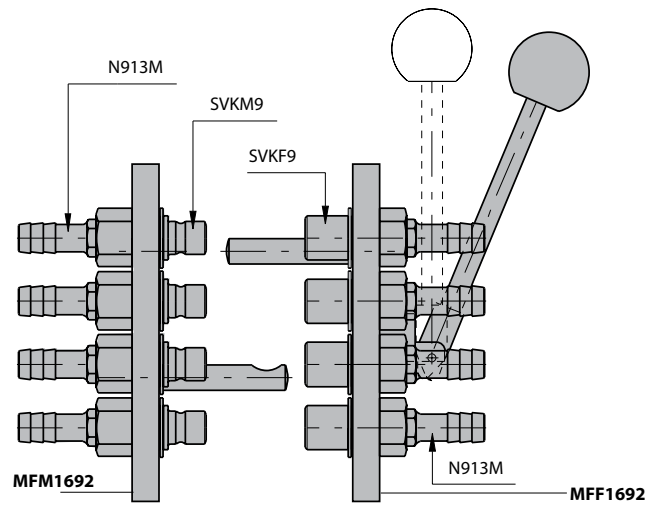
REF	Position
MBM1290 (plate only)	mold side
MBF1290 (plate only)	injection machine side

Multi-Coupling System 8 + 8 couplings



REF	Plug	Thread	Position
MCM1691	N914	1/4" BSP	Mold side
MCF1691	N914	1/4" BSP	Injection machine side

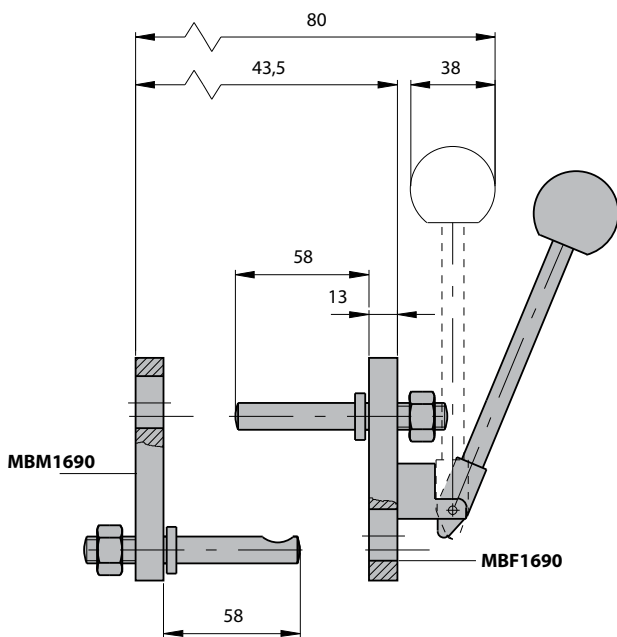
MFM - MFF - MCM - MCF



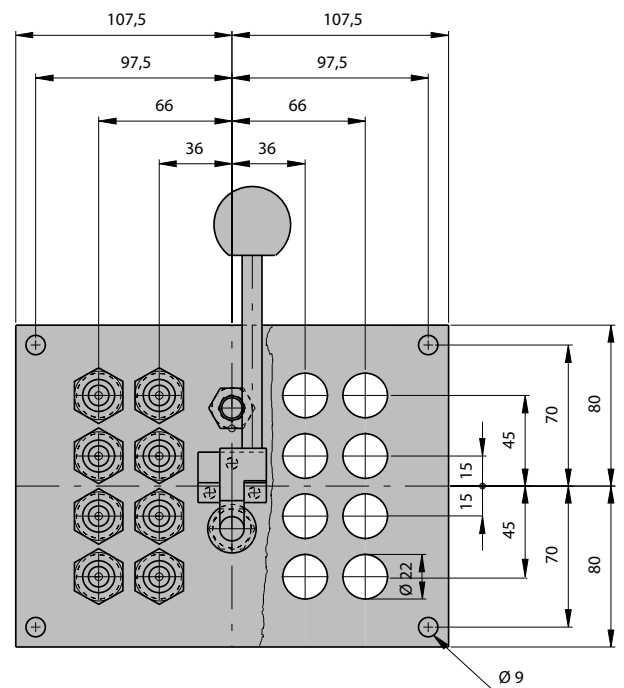
REF	Plug	Thread	Position
MFM1692	N913M	Ød 13 mm	Mold side
MFF1692	N913M	Ød 13 mm	Injection machine side

Plate for 8 + 8 couplings

MBM - MBF



REF	Position
MBM1690 (plate only)	mold side
MBF1690 (plate only)	injection machine side

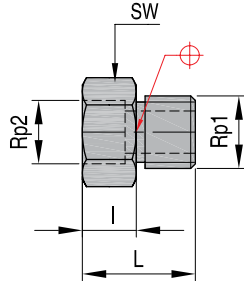


N9

Adapter

Mat.: Brass

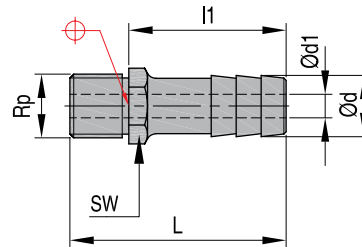
REF	Rp1	Rp2	L	I	SW	Series
N914	UNEF 5/8"-24	1/4" BSP	18	11	19	N9



Hose Nipple

Mat.: Brass

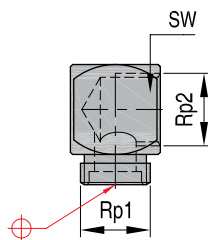
REF	Rp	d1	d	L	L1	SW	Series
N911M	UNEF 5/8"-24	9	11	33	27	16	N9
N913M	UNEF 5/8"-24	9	13	33	27	16	N9



90° Angle Adapter

Mat.: Brass

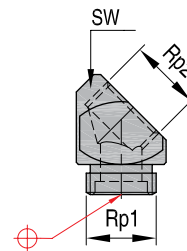
REF	Rp1	Rp2	R	SW	Series
N990	UNEF 5/8"-24	UNEF 5/8"-24	-	21	N9



45° Angle Adapter

Mat.: Brass

REF	Rp1	Rp2	SW	Series
N945	UNEF 5/8"-24	UNEF 5/8"-24	21	N9

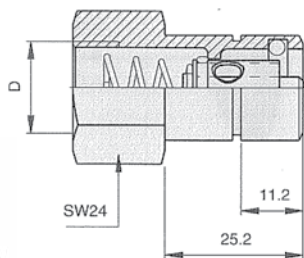
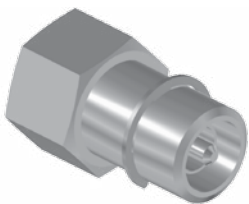


SVKF9

Female Threaded Shut off coupler

Mat.: Brass

REF	D	Position
SVKF9	UNEF 5/8"-24	Mold side



MCF3004

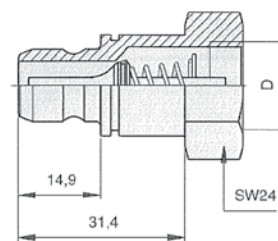
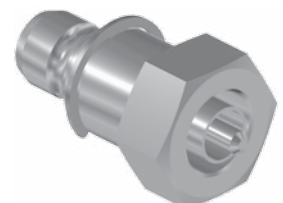


SVKM9

Male threaded shut off coupler

Mat.: Brass

REF	D	Position
SVKM9	UNEF 5/8"-24	Injection machine side



MCF3004



When you need a complete system, your order must include 3 elements:

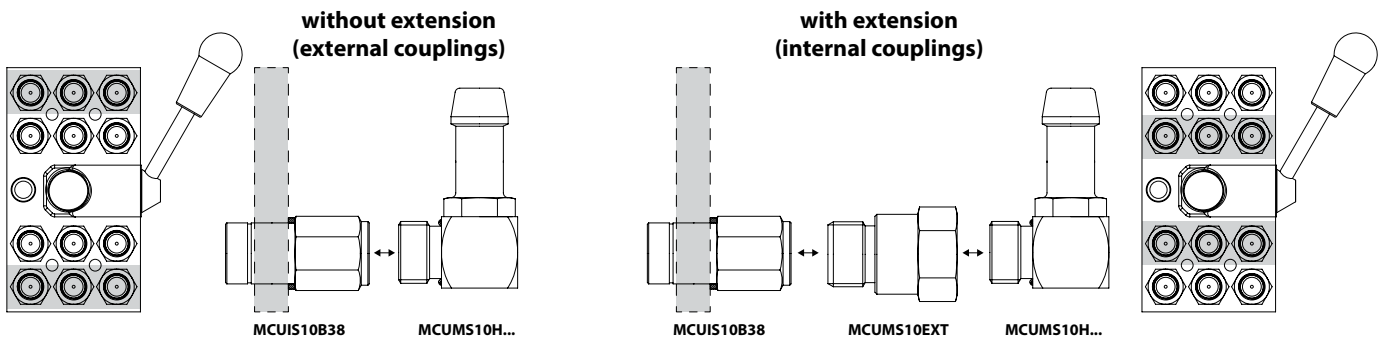
A MUF plate, which includes all couplings, like the one in the picture (example of a 3+3 system)



A MUM plate, which does not include couplings, like the one in the picture (example of a 3+3 system)



The MUC couplings that you want to have on your MUM plate, see instructions below and list of parts at page page 222 and page 227.

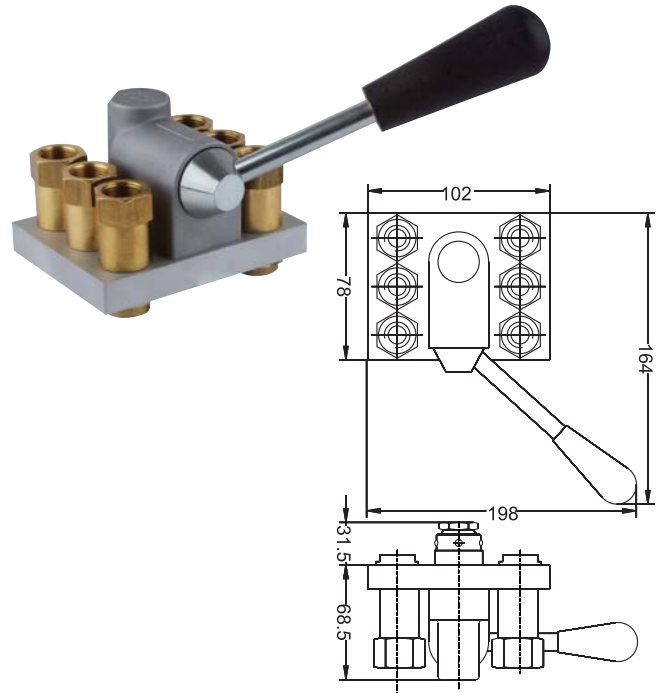
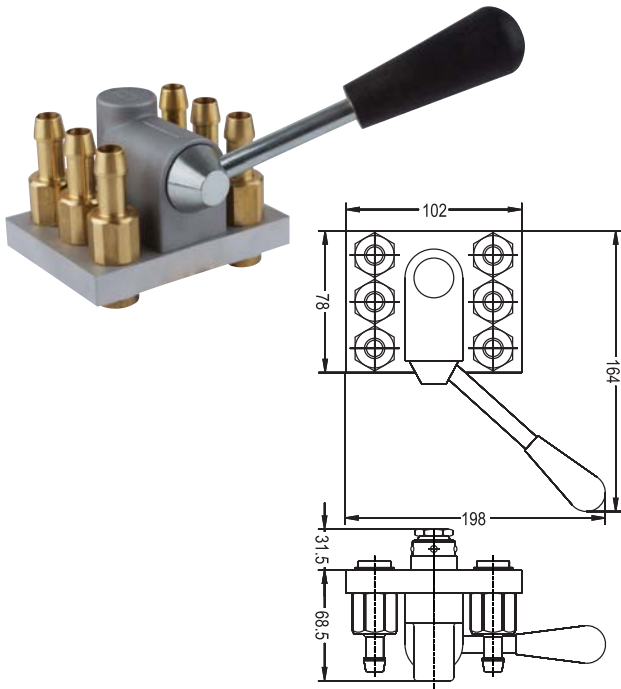


Coupling to be installed on **MUM** plate is **MUC0938MS/MUC1238MS**

On **MUC0938MS/MUC1238MS** you can mount **MUC0910EB...** / **MUC0912EB...** / **MUC1213EB...** / **MUC1216EB...** with or without the extension **MUC09EXTMS** / **MUC12EXTMS**

MUF

Multi-coupling system 3 + 3 couplings, 09 serie

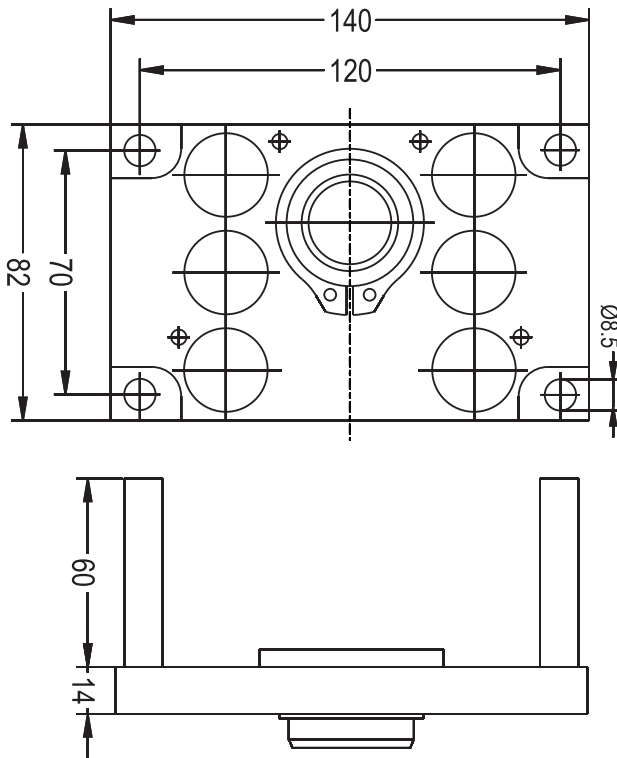


REF	D	Position
MUF 093310	Ø10	Injection machine side
MUF 093312	Ø12	Injection machine side

REF	D	Position
MUF093338	BSP 3/8"	Injection machine side

MUM

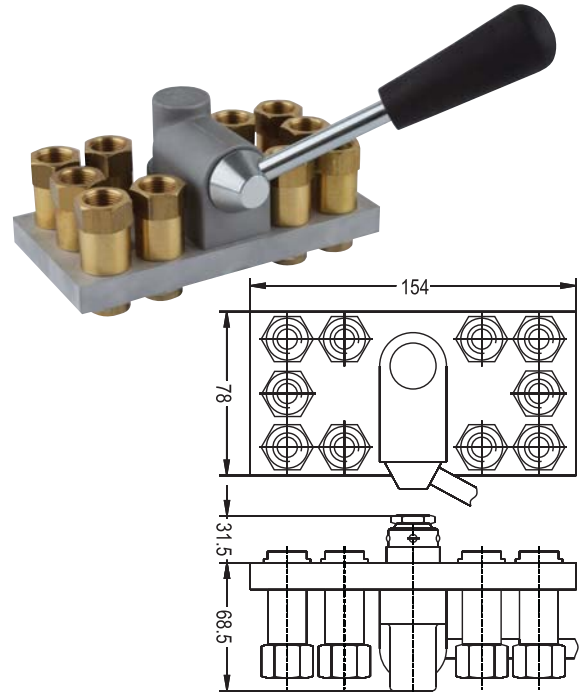
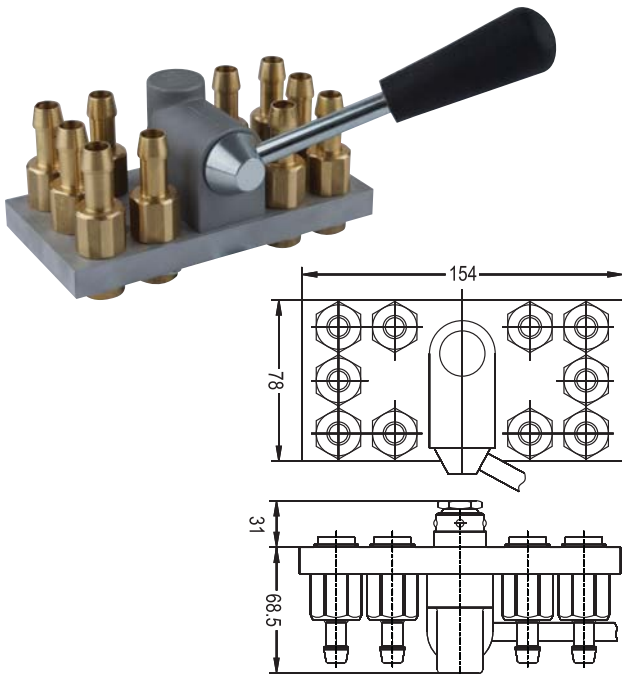
Mould plate for 3 + 3 couplings, 09 serie



REF	Position
MUM0933	Mold side

Multi-coupling system 5 + 5 couplings, 09 serie

MUF

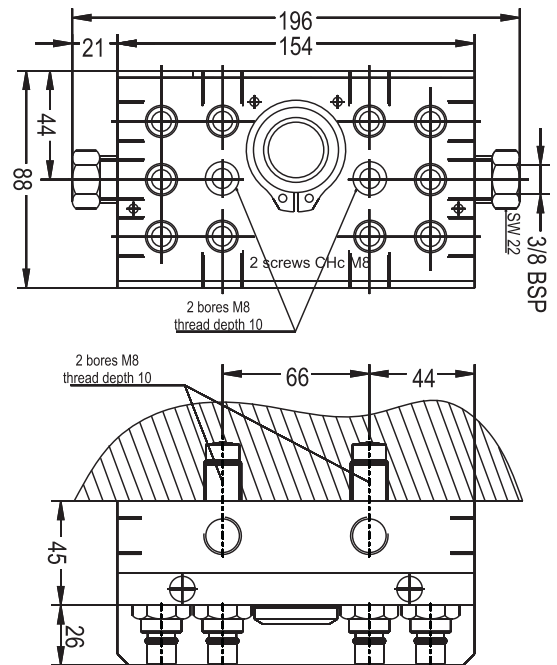


REF	D	Position
MUF 095510	Ø10	Injection machine side
MUF 095512	Ø12	Injection machine side

REF	D	Position
MUF 095538	BSP 3/8"	Injection machine side

Mould plate for 5 + 5 couplings, 09 serie

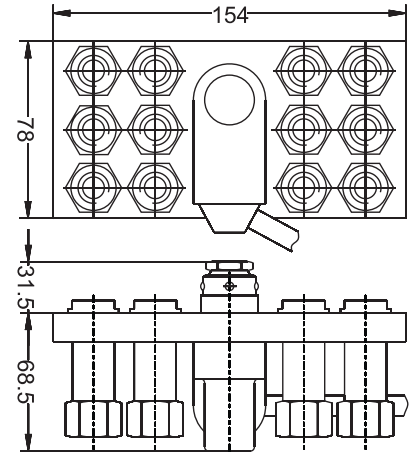
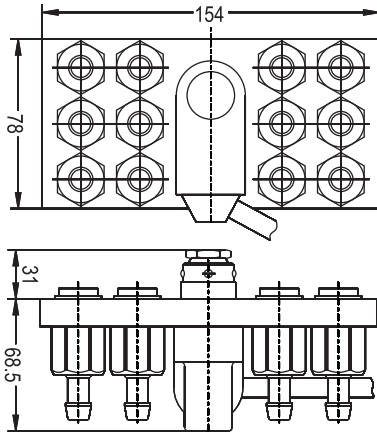
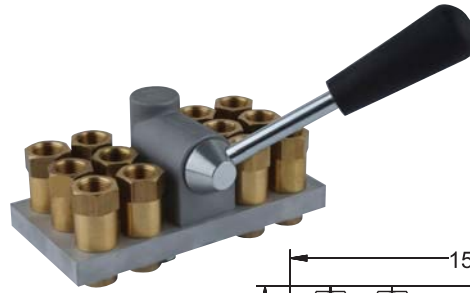
MUM



REF	Position
MUM 0955	Mold side

MUF

Multi-coupling system 6 + 6 couplings, 09 serie

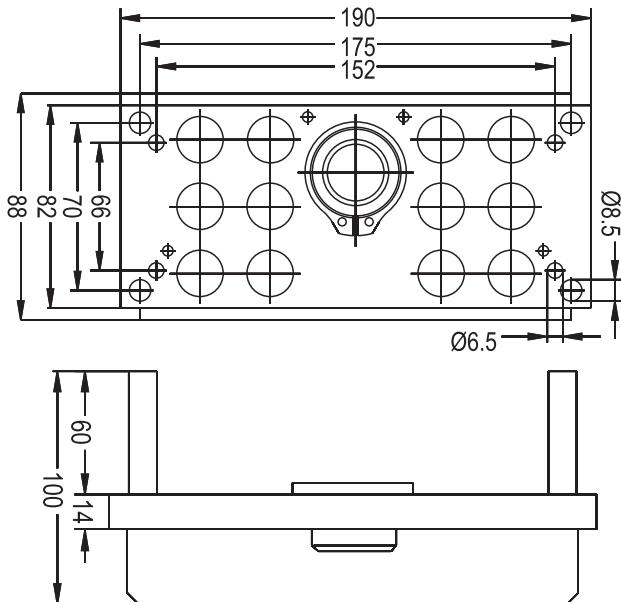


REF	D	Position
MUF 096610	Ø10	Injection machine side
MUF 096612	Ø12	Injection machine side

REF	D	Position
MUF 096638	BSP 3/8"	Injection machine side

MUM

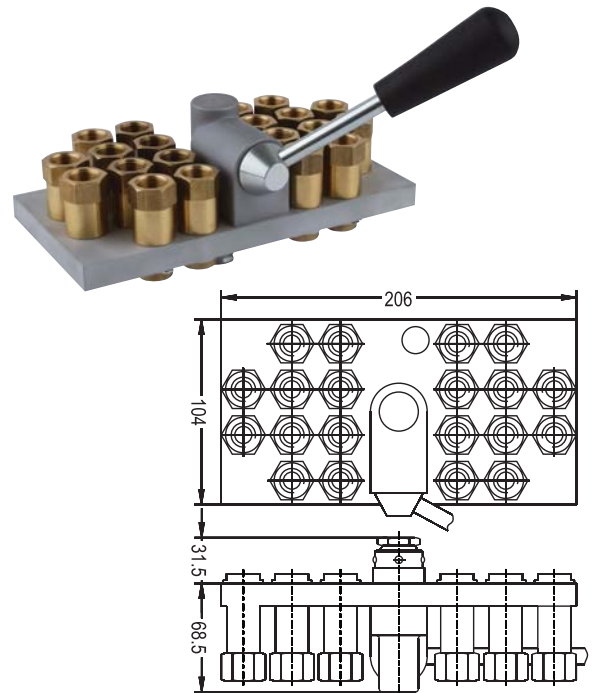
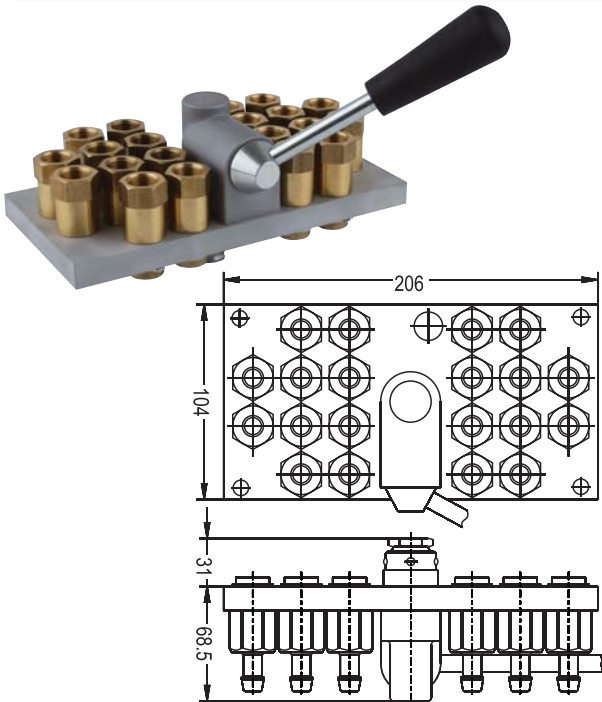
Mould plate for 6 + 6 couplings, 09 serie



REF	Position
MUM 0966	Mold side

Multi-coupling system 10 + 10 couplings, 09 serie

MUF

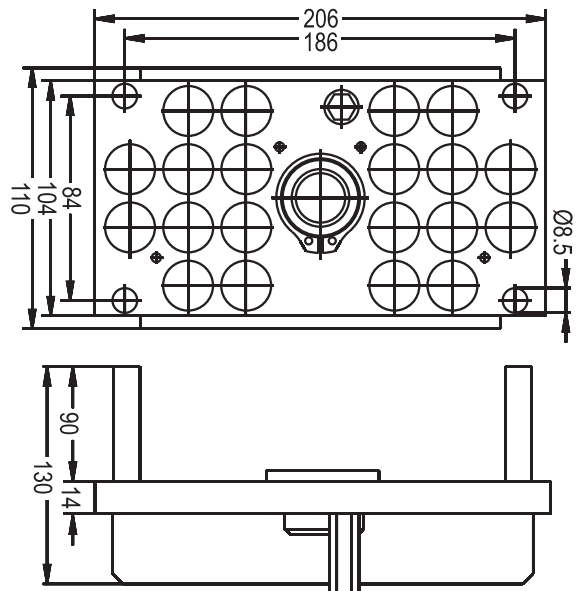


REF	D	Position
MUF 091010	Ø10	Injection machine side
MUF 091012	Ø12	Injection machine side

REF	D	Position
MUF 091038	NPT 3/8"	Injection machine side

Mobile plate for 10 + 10 couplings, 09 serie

MUM

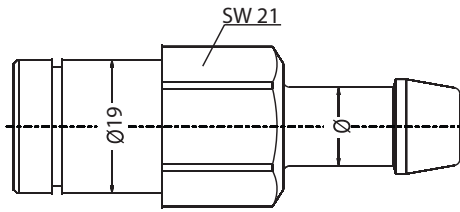


REF	Position
MUM 0910	Mold side

MUC

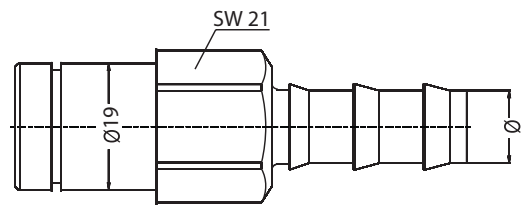
Couplings for Mutli Couplings, 09 serie

Hose Tail Shut-off Coupler



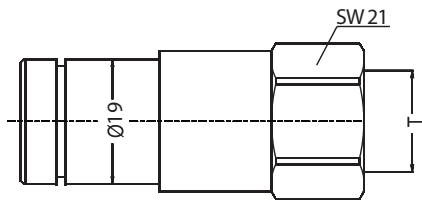
REF	D	Position
MUC 0910 IS	Ø 10	Injection machine side (for MUF plate)
MUC 0912 IS	Ø 12	Injection machine side (for MUF plate)

Push-lock Hose Tail Shut-off Coupler



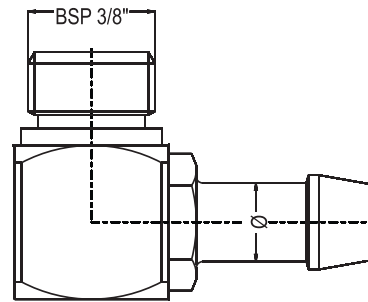
REF	D	Position
MUC 0910 ISPL	Ø 10	Injection machine side (for MUF plate)
MUC 0913 ISPL	Ø 13	Injection machine side (for MUF plate)

Female Threaded Shut-off Coupler



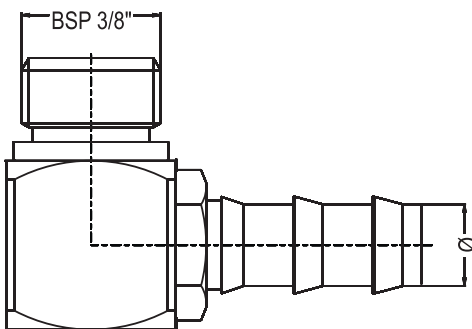
REF	D	Position
MUC 0938 IS	BSP 3/8"	Injection machine side (for MUF plate)

Elbow Hose Tail



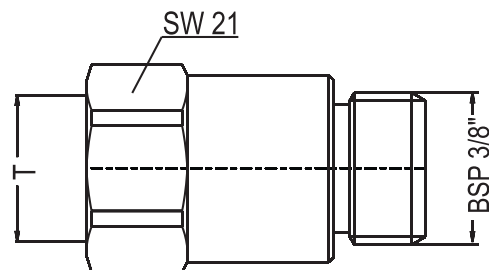
REF	T
MUC 0910 EBMS	Ø10
MUC 0912 EBMS	Ø12 to be installed on MU-C0938MS

Elbow Push-lock Hose Tail



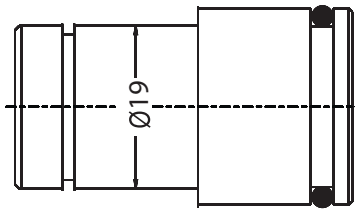
REF	T
MUC 0910 EBMPPL	Ø10
MUC 0912 EBMPPL	Ø12

Extention



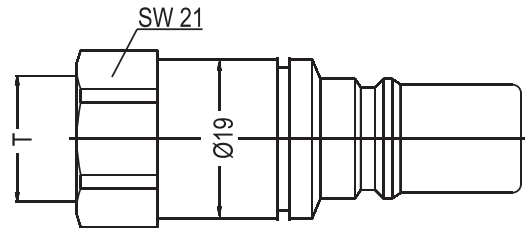
REF	Female	Male
MUC 09EXTMS	BSP 3/8\"/>to be installed on MU-C0938MS	BSP 3/8\"/>to be installed on MUC0938MS

Shut-off Coupler For Quick Coupling



REF	Position
MUC 09 CVMS	Injection machine side (for MUF plate)

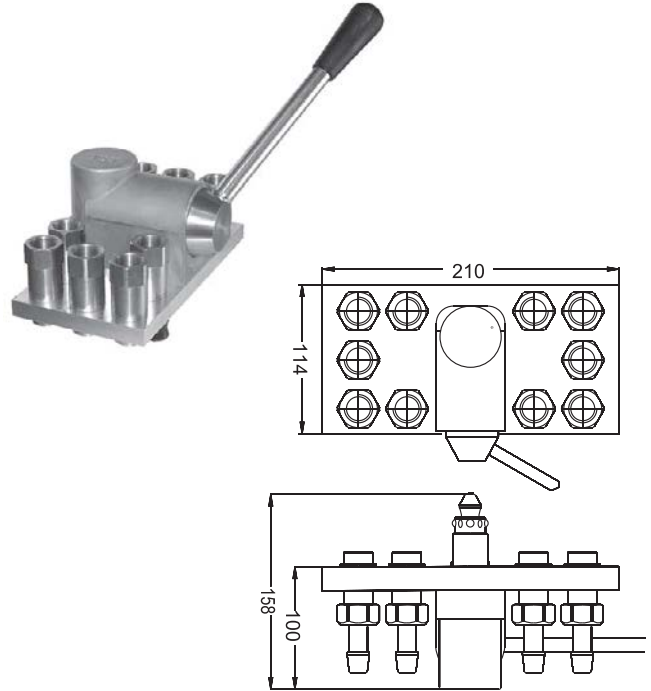
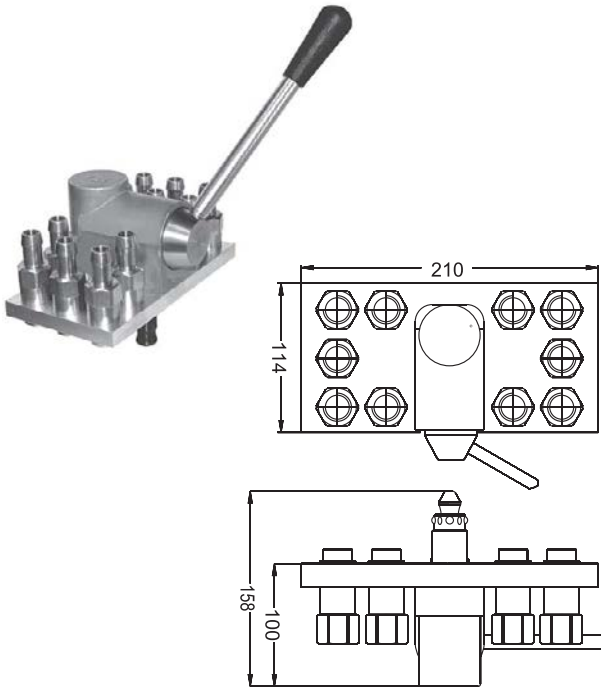
Female Threaded Shut-off Plug



REF	T
MUC 0938MS	BSP 3/8" to be installed on MUM plate

MUF

Multi-coupling system 5 + 5 couplings, 12 serie

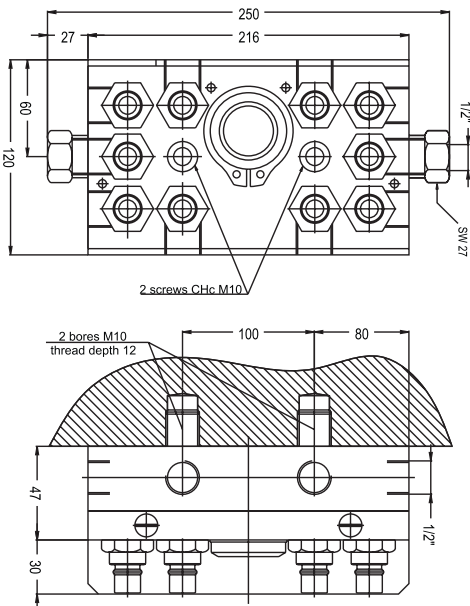


REF	D	Position
MUF 12SS10	Ø10	Injection machine side
MUF 12SS12	Ø12	Injection machine side

REF	D	Position
MUF 125538	BSP 1/2"	Injection machine side

MUM

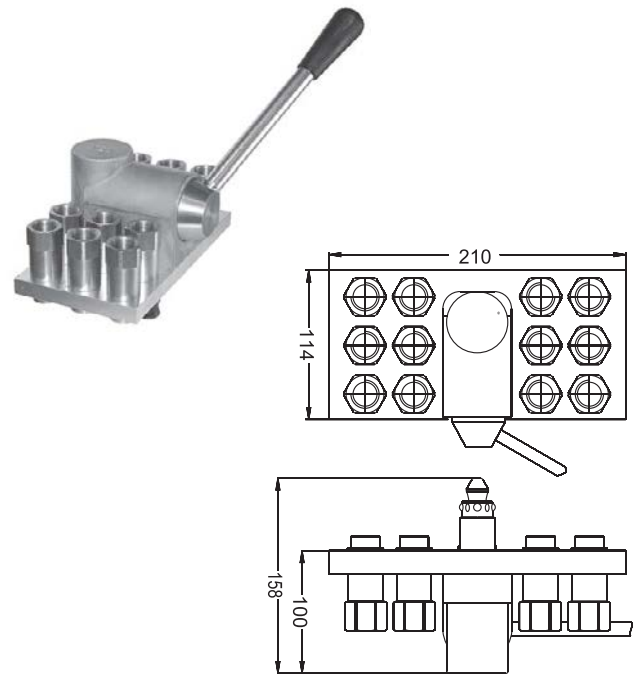
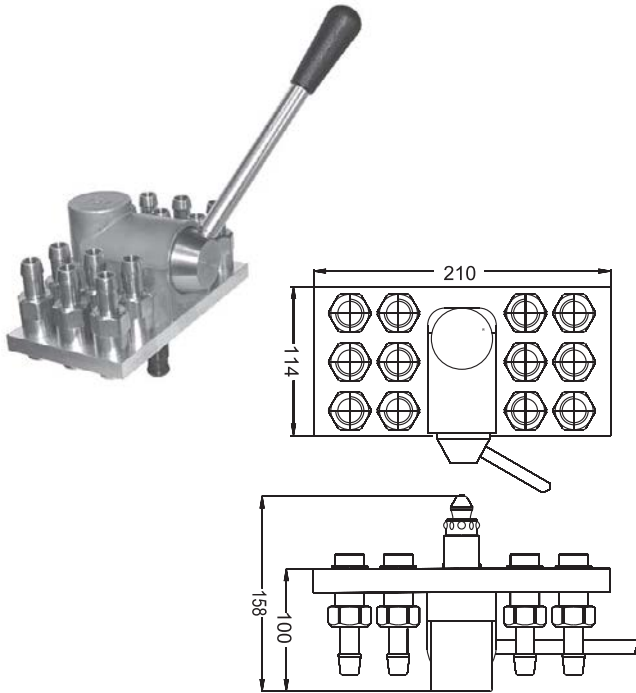
Mould plate for 5 + 5 couplings, 12 serie



REF	
MUM 1255	plate only

Multi-coupling system 6 + 6 couplings, 12 serie

MUF

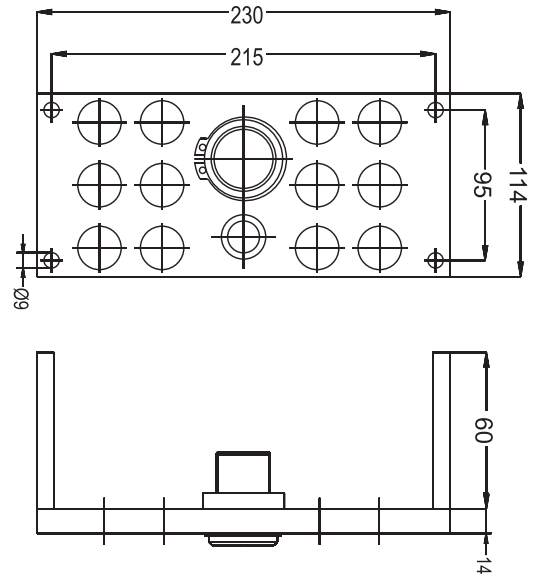


REF	D	Position
MUF 126610	Ø13	Injection machine side
MUF 126612	Ø16	Injection machine side

REF	D	Position
MUF 126638	BSP 1/2"	Injection machine side

Mould plate for 6 + 6 couplings, 12 serie

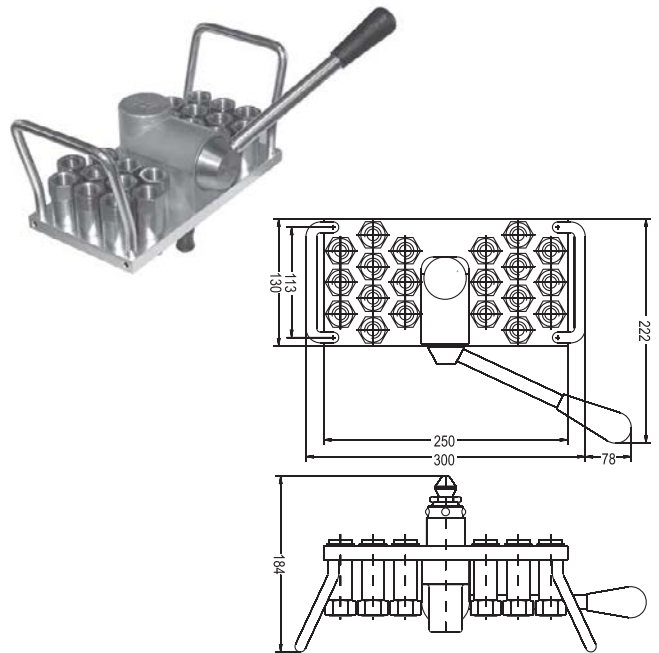
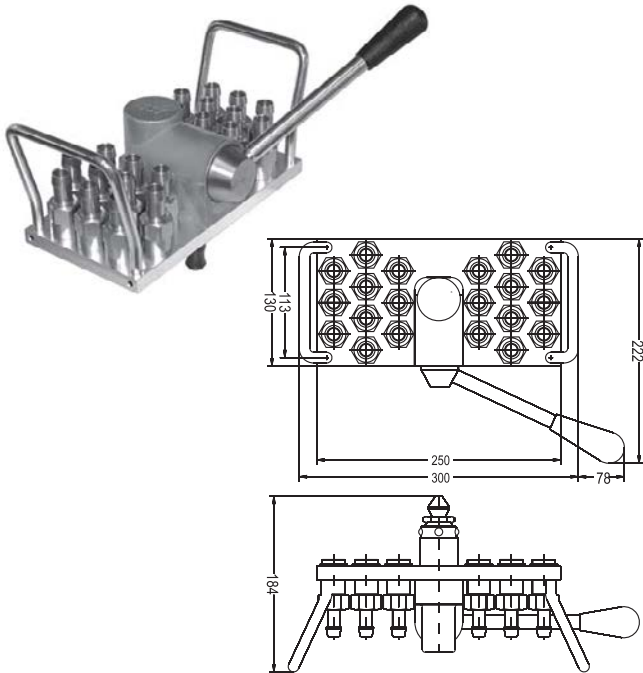
MUM



REF	Position
MUM 1266	Mold side

MUF

Multi-coupling system 5 + 5 couplings, 12 serie

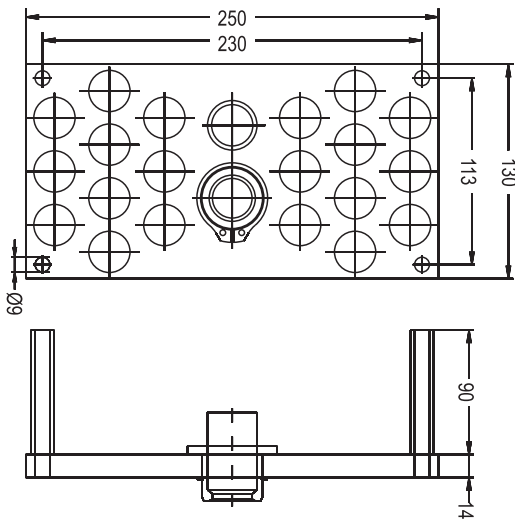


REF	D	Position
MUF 121010	Ø13	Injection machine side
MUF 121012	Ø16	Injection machine side

REF	D	Position
MUF 121038	BSP 1/2"	Injection machine side

MUM

Mould plate for 5 + 5 couplings, 12 serie

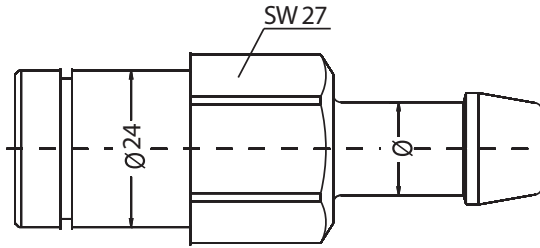


REF	Position
MUM1210	Mold side

Couplings for Multi Coupling, 12 serie

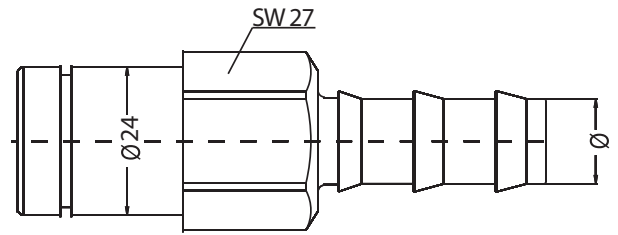
MUC

Hose Tail Shut-off Coupler



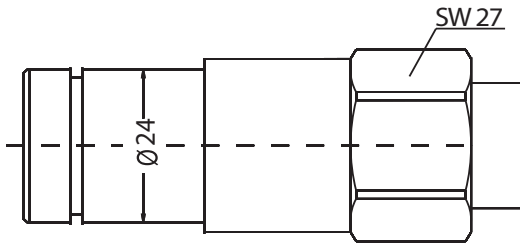
REF	D	Position
MUC 1213 IS	Ø13	Injection machine side (for MUF plate)
MUC 1216 IS	Ø16	Injection machine side (for MUF plate)

Push-lock Hose Tail Shut-off Coupler



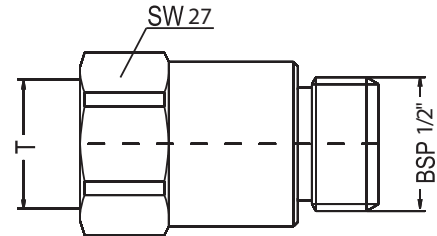
REF	D	Position
MUC 1213 ISPL	Ø16	Injection machine side (for MUF plate)
MUC 1216 ISPL	Ø13	Injection machine side (for MUF plate)

Female Threaded Shut-off Coupler



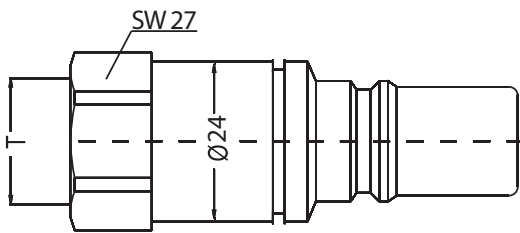
REF	D	Position
MUC 121215	BSP 1/2"	Injection machine side (for MUF plate)

Extension



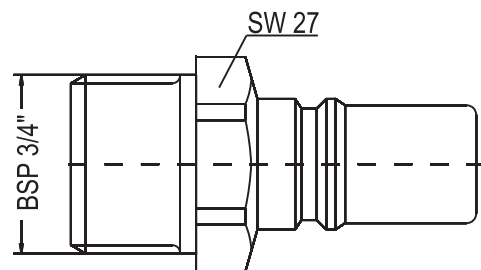
REF	Female	Male
MUC 12 EXTMS	BSP 1/2" to be installed on MUC0938MS	BSP 1/2" to be installed on MUC0938MS

Female Threaded Unvalved Plug



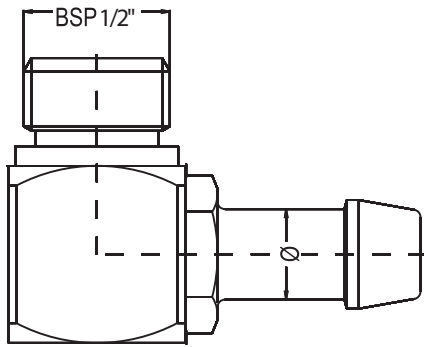
REF	T
MUC 1238 MS	BSP 1/2" for MUM plate

Male Threaded Unvalved Plug



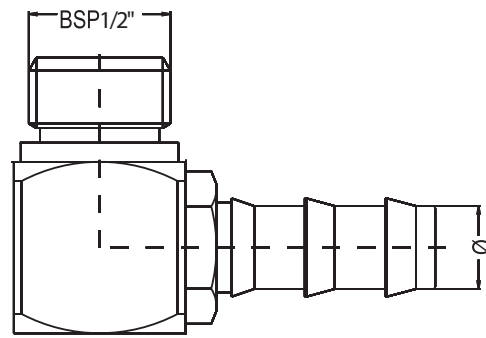
REF	T
MUC 12 CVMS	BSP 3/4"

Elbow Hose Tail



REF	T
MUC 1213 EBMS	Ø13
MUC 1216 EBMS	Ø16 to be installed on MU-C0938MS

Elbow Push-lock Hose Tail



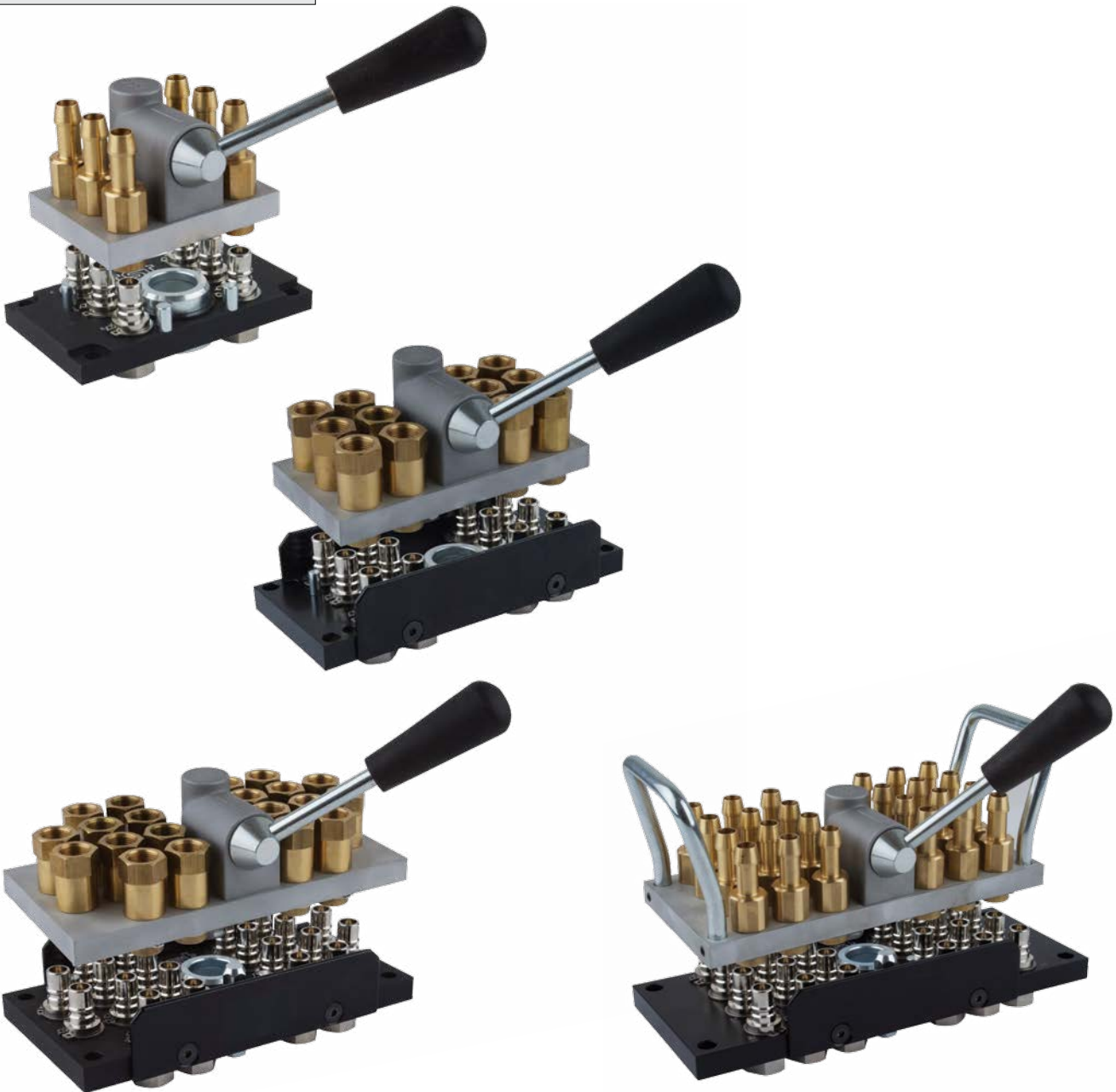
REF	T
MUC 1213 EBMSPL	Ø13
MUC 1216 EBMSPL	Ø16 to be installed on MU-C0938MS

Standard multi couplings ranges

- M 106 (flow size: 6mm)
- M 109 (flow size: 9mm)
- M 112 (flow size: 12mm)
- M 116 (flow size: 16mm)

According to the requested coupler quantity

- 6 couplers: 3 circuits
- 8 couplers: 4 circuits
- 10 couplers: 5 circuits
- 12 couplers: 6 circuits
- 16 couplers: 8 circuits
- 20 couplers: 10 circuits
- 24 couplers: 12 circuits



Series	Market Compatible	DME REF
06	RPL06.1150	U100.06 RU10T
06	RPL06.1151	U100.06 RU13T
06	RPL06.1250	U100.06 TU 10T
06	RPL06.1251	U100.06 TU 13T
06	RPL06.1410	U100.06 EUM 10-1T
06	RPL06.6806	U100.06 HGF 06
06	RPL06.6808	U100.06 HGF 08
08	RPL08.1150	U100.08 RU 10T
08	RPL08.1151	U100.08 RU 13T
08	RPL08.1152	U100.08 RU 17T
08	RPL08.1250	U100.08 TU 10T
08	RPL08.1251	U100.08 TU 13T
08	RPL08.1252	U100.08 TU 17T
08	RPL08.1410	U100.08 EUM 10-1T
08	RPL08.1411	U100.08 EUM 10T
08	RPL08.1414	U100.08 EUM 14T
08	RPL08.1100	U100.08 DU 10
08	RPL08.1101	U100.08 DU 13
08	RPL08.1200	U100.08 NU 10
08	RPL08.1201	U100.08 NU 13
08	RPL08.1150/RE	U100.08 RU 10-90°T
08	RPL08.1151/RE	U100.08 RU 13-90°T
08	RPL08.1152/RE	U100.08 RU 17-90°T
08	RPL08.1150/RO	U100.08 RU 10-135°T
08	RPL08.1151/RO	U100.08 RU 13-135°T
08	RPL08.1152/RO	U100.08 RU 17-135°T
08	RPL08.2000	U100.08 PU 00
08	RPL08.1010/50/RF	U100.08-50 RF10
08	RPL08.1010/100/RF	U100.08-100 RF10
08	RPL08.1010/150/RF	U100.08-150 RF10
08	RPL08.1011/50/RF	U100.08-50 RF13
08	RPL08.1011/100/RF	U100.08-100 RF13
08	RPL08.1011/150/RF	U100.08-150 RF13
08	RPL08.1011/200/RF	U100.08-200 RF13
08	RPL08.6000/RE	U100.08 KG 00
08	R11391000	UPB 10x1 meter
08	RPL08.1010/100/R	U100 08-10 BU 100
08	RPL08.1010/150/R	U100 08-10 BU 150
08	RPL08.1010/200/R	U100 08-10 BU 200
08	RPL08.1011/100/R	U100 08-13 BU 100
08	RPL08.1011/150/R	U100 08-13 BU 150
08	RPL08.1011/200/R	U100 08-13 BU 200
08	RPL08.1011/250/R	U100 08-13 BU 250
08	RPL08.1152/ON	U100.08 EUB 17
08	RPL08.9000	U100.08 EUB 00
08	RPL08.6806	U100.08 HGF 06
08	RPL08.6808	U100.08 HGF 08
08	RPL08.6810	U100.08 HGF 10
08	RPL08.6812	U100.08 HGF 12
08	RPL08.6813	U100.08 HGF 13
08	RPL08.6806/RE	U100.08 HGF 06-90°
08	RPL08.6808/RE	U100.08 HGF 08-90°
08	RPL08.6810/RE	U100.08 HGF 10-90°
08	RPL08.6812/RE	U100.08 HGF 12-90
08	RPL08.6813/RE	U100.08 HGF 13-90
08	RPL08.6806/RO	U100.08 HGF 06-135°
08	RPL08.6808/RO	U100.08 HGF 08-135°
08	RPL08.6810/RO	U100.08 HGF 10-135°
08	RPL08.6812/RO	U100.08 HGF 12-135
08	RPL08.6813/RO	U100.08 HGF 13-135
08	RPL08.6810/CN	U100.08 FGF 10
08	RPL08.6813/CN	U100.08 FGF 13

Series	Market Compatible	DME REF
08	RPL08.6810/CN/RE	U100.08 FGF 10-90°
08	RPL08.6813/CN/RE	U100.08 FGF 13-90°
08	RPL08.6810/CN/RO	U100.08 FGF 10-135°
08	RPL08.6813/CN/RO	U100.08 FGF 13-135°
08	RPL08.6101	U100.08 DGF 13
08	RPL08.6201	U100.08 NGF 13
08	RPL08.6101/RE	U100.08 DGF 13-90°
08	RPL08.6201/RE	U100.08 NGF 13-90°
08	RPL08.6101/RO	U100.08 DGF 13-135°
08	RPL08.6201/RO	U100.08 NGF 13-135°
12	RPL12.1152	U100.12 RU 17T
12	RPL12.1153	U100.12 RU 21T
12	RPL12.1154	U100.12 RU 26T
12	RPL12.1252	U100.12 TU 17T
12	RPL12.1253	U100.12 TU 21T
12	RPL12.1254	U100.12 TU 26T
12	RPL12.1102	U100.12 DU 17
12	RPL12.1103	U100.12 DU 21
12	RPL12.1002/150/R	U100.12-17 BU 150
12	RPL12.1002/200/R	U100.12-17 BU 200
12	RPL12.1002/250/R	U100.12-17 BU 250
12	RPL12.1003/150/R	U100.12-21 BU 150
12	RPL12.1003/200/R	U100.12-21 BU 200
12	RPL12.1003/250/R	U100.12-21 BU 250
12	RPL12.9000	U100.12 EUB 00
12	RPL12.1103/ON/JV	U100.12 DUB 21V
12	RPL12.1104/ON/JV	U100.12 DUB 26V
12	RPL12.6813	U100.12 HGF 13
12	RPL12.6816	U100.12 HGF 16
12	RPL12.6813/RO	U100.12 HGF 13-135°
12	RPL12.6816/RO	U100.12 HGF 16-135°
12	RPL12.6813/CN	U100.12 FGF 13
12	RPL12.6816/CN	U100.12 FGF 16
12	RPL12.6813/RE	U100.12 HGF 13-90°
12	RPL12.6813/CN/RE	U100.12 FGF 13-90°
12	RPL12.6816/CN/RE	U100.12 FGF 16-90°
12	RPL12.6813/CN/RO	U100.12 FGF 13-135°
12	RPL12.6816/CN/RO	U100.12 FGF 16-135°
12	RPL12.6102	U100.12 DGF 17
12	RPL12.6103	U100.12 DGF 21
12	RPL12.6203	U100.12 NGF 21
12	RPL12.6104	U100.12 DGF 26
12	RPL12.6204	U100.12 NGF 26
12	RPL12.6102/RE	U100.12 DGF 17-90°
12	RPL12.6202/RE	U100.12 NGF 17-90°
12	RPL12.6103/RE	U100.12 DGF 21-90°
12	RPL12.6203/RE	U100.12 NGF 21-90°
12	RPL12.6102/RO	U100.12 DGF 17-135°
12	RPL12.6202/RO	U100.12 NGF 17-135°
12	RPL12.6103/RO	U100.12 DGF 21-135°
12	RPL12.6203/RO	U100.12 NGF 21-135°
06	R603.507.11	UCG 100.06N
06	RMI06.6101	U101.06 DU 13
06	RMI06.6201	U101.06 NU 13
06	RMI06.6150	U101.06 RU 10
06	RMI06.6151	U101.06 RU 13
06	RMI06.6250	U101.06 TU 10
06	RMI06.6251	U101.06 TU 13
06	RMI06.7201/JV	U101.06 NUB 13
06	RMI06.7150/JV	U101.06 RUB 10
06	RMI06.7151/JV	U101.06 RUB 13
06	RMI06.7250/JV	U101.06 TUB 10

Reference Comparison Table (Interchangeable)

Info

Series	Market Compatible	DME REF
06	RMI06.7251/JV	U101.06 TUB 13
06	RMI06.1808/JV	U101.06 HGB 08
06	RMI06.1808/JV/RE	U101.06 HGB 08-90°
06	RMI06.1808/JV/RO	U101.06 HGB 08-135°
06	RMI06.1808	U101.06 HGB 08
06	RMI06.1808/RE	U101.06 HGB 08-90°
06	RMI06.1808/RO	U101.06 HGB 08-135°
06	RMI06.1101/JV	U101.06 DGB 13
06	RMI06.1101	U101.06 DGF 13
06	RMI06.1201/JV	U101.06 NGB 13
06	RMI06.1201	U101.06 NGF 13
06	RMI06.1101/JV/RE	U101.06 DGB 13-90°
06	RMI06.1101/JV/RO	U101.06 DGB 13-135°
06	RMI06.1101/RE	U101.06 DGF 13-90°
06	RMI06.1101/RO	U101.06 DGF 13-135°
06	RMI06.1810/JV/CN	U101.06 FGB 10
06	RMI06.1810/CN	U101.06 FGF 10
06	RMI06.1151/JV	U101.06 EGB 13
06	RMI06.1151/JV/RE	U101.06 EGB 13-90°
06	RMI06.1151	U101.06 EGF 13
06	RMI06.1151/RE	U101.06 EGF 13-90°
08	R600.007.11	UCG 100.08N
09	RMI09.6102	U101.09 DU 17
09	RMI09.6202	U101.09 NU 17
09	RMI09.6151	U101.09 RU 13
09	RMI09.6152	U101.09 RU 17
09	RMI09.6153	U101.09 RU 21
09	RMI09.6251	U101.09 TU 13
09	RMI09.6252	U101.09 TU 17
09	RMI09.6253	U101.09 TU 21
09	RMI09.7101/JV	U101.09 DUB 13
09	RMI09.7102/JV	U101.09 DUB 17
09	RMI09.7201/JV	U101.09 NUB 13
09	RMI09.7151/JV	U101.09 RUB 13
09	RMI09.7152/JV	U101.09 RUB 17
09	RMI09.7153/JV	U101.09 EUB 21
09	RMI09.7251/JV	U101.09 TUB 13
09	RMI09.7252/JV	U101.09 TUB 17
09	RMI09.7253/JV	U101.09 TUB 21
09	RMI09.1812/JV	U101.09 HGB 12
09	RMI09.1810/JV/RE	U101.09 HGB 10-90°
09	RMI09.1812/JV/RE	U101.09 HGB 12-90°
09	RMI09.1812/JV/RO	U101.09 HGB 12-45
09	RMI09.1812	U101.09 HGB 12
09	RMI09.1810/RE	U101.09 HGB 10-90°
09	RMI09.1812/RE	U101.09 HGB 12-90°
09	RMI09.1812/RO	U101.09 HGB 12-45
09	RMI09.1102/JV	U101.09 DGB 17
09	RMI09.1102	U101.09 DGF 17
09	RMI09.1202/JV	U101.09 NGB 17
09	RMI09.1202	U101.09 NGF 17
09	RMI09.1102/JV/RE	U101.09 DGB 17-90°
09	RMI09.1102/RE	U101.09 DGF 17-90°
09	RMI09.1810/JV/CN	U101.09 FGB 10
09	RMI09.1813/JV/CN	U101.09 FGB 13
09	RMI09.1810/CN	U101.09 FGF 10
09	RMI09.1813/CN	U101.09 FGF 13
09	RMI09.1152/JV	U101.09 EGB 17
09	RMI09.1152/JV/RE	U101.09 EGB 17-90°
09	RMI09.1152	U101.09 EGF 17
09	RMI09.1152/RE	U101.09 EGF 17-90°
12	R600.011.10	UCG 100.12N

Series	Market Compatible	DME REF
12	RMI12.6103	U101.12 DU 21
12	RMI12.6203	U101.12 NU 21
12	RMI12.6152	U101.12 RU 17
12	RMI12.6153	U101.12 RU 21
12	RMI12.6154	U101.12 RU 26
12	RMI12.6252	U101.12 TU 17
12	RMI12.6253	U101.12 TU 21
12	RMI12.6254	U101.12 TU 26
12	RMI12.7203/JV	U101.12 NUB 21
12	RMI12.7152/JV	U101.12 RUB 17
12	RMI12.7153/JV	U101.12 RUB 21
12	RMI12.7154/JV	U101.12 EUB 26
12	RMI12.7252/JV	U101.12 TUB 17
12	RMI12.7253/JV	U101.12 TUB 21
12	RMI12.7254/JV	U101.12 TUB 26
12	RMI12.1813/JV	U101.12 HGB 13
12	RMI12.1816/JV	U101.12 HGB 16
12	RMI12.1816/JV/RE	U101.12 HGB 16-90
12	RMI12.1813	U101.12 HGB 13
12	RMI12.1816	U101.12 HGB 16
12	RMI12.1816/RE	U101.12 HGB 16-90
12	RMI12.1103/JV	U101.12 DGB 21
12	RMI12.1103	U101.12 DGF 21
12	RMI12.1203/JV	U101.12 NGB 21
12	RMI12.1203	U101.12 NGF 21
12	RMI12.1103/JV/RE	U101.12 DGB 21-90°
12	RMI12.1103/RE	U101.12 DGF 21-90°
12	RMI12.1813/JV/CN	U101.12 FGB 13
12	RMI12.1816/JV/CN	U101.12 FGB 16
12	RMI12.1813/CN	U101.12 FGF 13
12	RMI12.1816/CN	U101.12 FGF 16
12	RMI12.1153/JV	U101.12 EGB 21
12	RMI12.1153/JV/RE	U101.12 EGB 21-90°
12	RMI12.1153	U101.12 EGF 21
12	RMI12.1153/RE	U101.12 EGF 21-90°
12	RMI12.7154/JV	U101.12.EUB 26
16	RMI16.6104	U101.16 DU 26
16	RMI16.6204	U101.16 NU 26
16	RMI16.6154	U101.16 RU 26
16	RMI16.6819	U101.16 HU 19
16	RMI16.7104/JV	U101.16 DUB 26
16	RMI16.7204/JV	U101.16 NUB 26
16	RMI16.7154/JV	U101.16 RUB 26
16	RMI16.7155/JV	U101.16 EUB 33
16	RMI16.7254/JV	U101.16 TUB 26
16	RMI16.1819/JV	U101.16 HGB 19
16	RMI16.1819/JV/RE	U101.16 HGB 19-90
16	RMI16.1819	U101.16 HGB 19
16	RMI16.1819/RE	U101.16 HGB 19-90
16	RMI16.1104/JV	U101.16 DGB 26
16	RMI16.1104	U101.16 DGF 26
16	RMI16.1204/JV	U101.16 NGB 26
16	RMI16.1204	U101.16 NGF 26
16	RMI16.1819/JV/CN	U101.16 FGB 19
16	RMI16.1819/CN	U101.16 FGF 19
16	RMI16.1154/JV	U101.16 EGB 26
16	RMI16.1154/JV/RE	U101.16 EGB 26-90°
16	RMI16.1154	U101.16 EGF 26
16	RMI16.1154/RE	U101.16 EGF 26-90°
20	RMI20.6105/EA	U101.20 DU 33
20	RMI20.7104/EA/JV	U101.20 DUB 26
20	RMI20.7105/EA/JV	U101.20 DUB 33

Info

Reference Comparison Table (Interchangeable)

Series	Market Compatible	DME REF
20	RMI20.7155/JV	U101.20 EUB 33
20	RMI20.1104/EA/JV	U101.20 DGB 26
20	RMI20.1105/EA/JV	U101.20 DGB 33
20	RMI20.1154/EA/JV	U101.20 EGB 26
20	RMI20.1155/EA/JV	U101.20 EGB 33
20	RMI20.1204/EA/JV	U101.20 NGB 26
20	RMI20.1205/EA/JV	U101.20 NGB 33
20	RMI20.1254/EA/JV	U101.20 TGB 26
20	RMI20.1255/EA/JV	U101.20 TGB 33
25	RMI25.6105/EA	U101.25 DU 33
25	RMI25.7105/EA/JV	U101.25 DUB 33
25	RMI25.7106/EA/JV	U101.25 DUB 42
25	RMI25.7206/EA/JV	U101.25 NUB 42
25	RMI25.7156/EA/JV	U101.25 EUB 42
25	RMI25.1105/EA/JV	U101.25 DGB 33
25	RMI25.1105/EA	U101.25 DGF 33
25	RMI25.1156/EA/JV	U101.25 EGB 42
25	RMI25.1206/EA/JV	U101.25 NGB 42
25	RMI25.1257/EA/JV	U101.25 TGB 48
25	RMI25.7257/EA/JV	U101.25 TUB 48



Flowmeters



DD

Tracer with Fluid Characteristic Indication (FCI) Technology



With the new Tracer Electronic Flowmeter, it is easier than ever to know exactly how much water is flowing through your water lines. In addition to flow rate, the Tracer™ provides a precise temperature reading of the water. It will calculate BTU's and display "TFLOW" message when Turbulent Flow is present. With the new information the Tracer™ will provide, you can manage your processes more completely and accurately.

Know Your Flow

There is no need to guess if water is flowing through each line or zone of a mold. Now you can know exactly how much is flowing. Your flow rate is displayed in 100ths of a gallon per minute. If you prefer, flow is displayed in liters per minute.

Know Your Water Temperature

In addition to providing current flow rate data, the Tracer™ also provides the current water temperature at the flowmeter. Used on the supply side, this can verify precise water temperature as it enters the mold. Put the Tracer™ in the out or return side and measure water temperature exiting the mold. Temperature can be displayed in either Fahrenheit or Celsius units, user selectable.

Know Your BTU's

The setup mode of the Tracer™ allows you to enter the incoming or supply water temperature. Then with the

Tracer™ attached to the return water line, it will calculate BTU per minute.

Know Your FCI's

Tracer flowmeter displays a special message ("TFLOW") when Turbulent Flow is present in your cooling water. Turbulent flow is the condition of optimum cooling efficiency. Tracer flowmeter calculates this condition based on the cooling water line size, water temperature and percentage of glycol (0, 10% 20% or 30%) as input in the setup mode.

Versatile

The Tracer™ can be mounted in any position. It can accept flow in either direction. 3/8" units include a sight glass on the back for visual verification of flow. Select the optional quick-connect fittings and use the Tracer™ as a test kit to diagnose your water line problems.

Digital LCD Display

The digital display Tracer™ is battery powered and has an easy-to-read LCD which displays flow rate, temperature or BTU's at the touch of a button. A programmable auto shutoff feature extends battery life.

REF	Inlet/Outlet	Temp. Range	Temp. Accuracy	Flow	Flow Accuracy	Weight
DD3B	3/8" BSP inlet and outlet	0-82 °C	± 2%	2-30 lpm	± 5%	0,7 kg

Mechanical Flowmeters

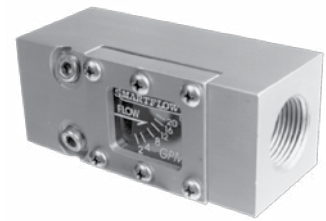
Features

- Compact, rugged design
- 99° (210 °F) temperature rating
- Operating pressure 6,9 bar max
- Max flow 75lpm
- Aluminum body
- Polysulfone sight glass
- Can be mounted in any position
- Optional thermometer & pressure gauge

Materials & Options

Body.....	Anodized aluminum
Sight glass	Polysulfone
Gasket.....	Neoprene
Vane	Stainless steel
Spring	Stainless steel
Pin & screws	Stainless steel
Thermometer (opt.).....	0° 250°F/-20° -120°C
Pressure gauge (opt.)	0 to 100 PSI

Flow



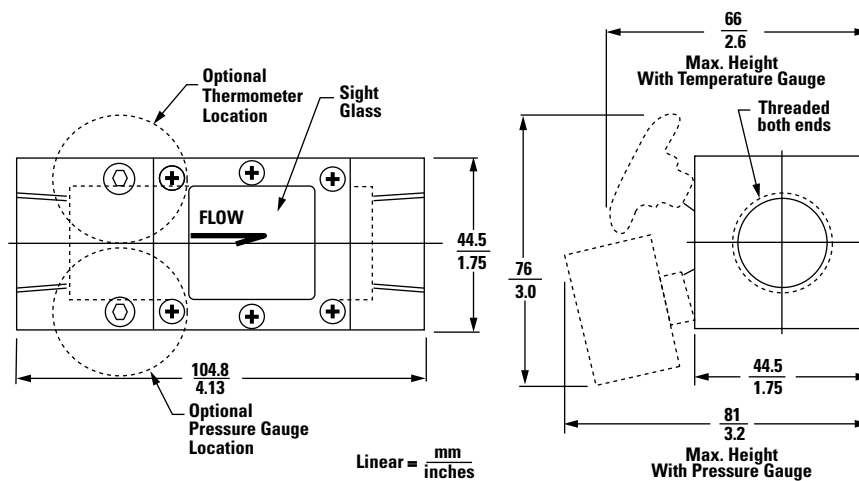
Flow & Temp.



Flow, Temp. & Pressure

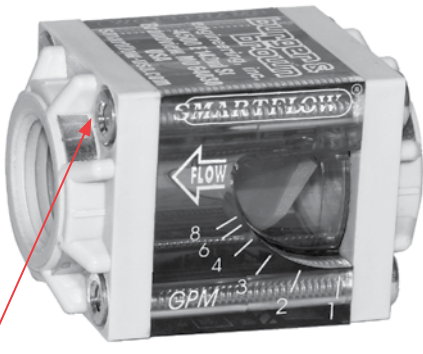


REF	Flow	Measurement	Inlet/Outlet
F06BA75	7 – 75 lpm	Flow	3/4" BSP
F06BB75	7 – 75 lpm	Flow and temperature	3/4" BSP
F06BC375	7 – 75 lpm	Flow, temperature and pressure	3/4" BSP



FP

IceCube™ Flowmeters with Nylon End Caps



Stainless Steel Stabilizer Ring!

REF	Flow range	Measurements	Inlet Size
FP3BA30	4 – 30 lpm	Flow	3/8 " BSP
FP3BC30	4 – 30 lpm	Flow, temperature and pressure	3/8 " BSP

Reinforced Nylon End Caps reduce weight and cost of proven mechanical flowmeter design. Stainless steel stabilizer ring holds threads stable, preventing distortion. Nylon material provides dielectric insulator to help prevent galvanic action due to dissimilar metals.

General Description

Smartflow® Mechanical Flowmeters are durable, vane-operated devices that provide visual indication of flow rate in many different styles and sizes. Rugged wetted parts are compatible with many process liquids. Optional temperature and pressure gauges add functionality and flexibility to Smartflow® Flowmeters. Brass quick-connect fittings are available to create an excellent, portable tool for determining flow and locating clogged lines.

Features and Benefits

- Compact size works well in restricted-space locations
- Rugged construction gives years of dependable service
- 99°C (210°F) temperature rating allows installation into a wide range of applications

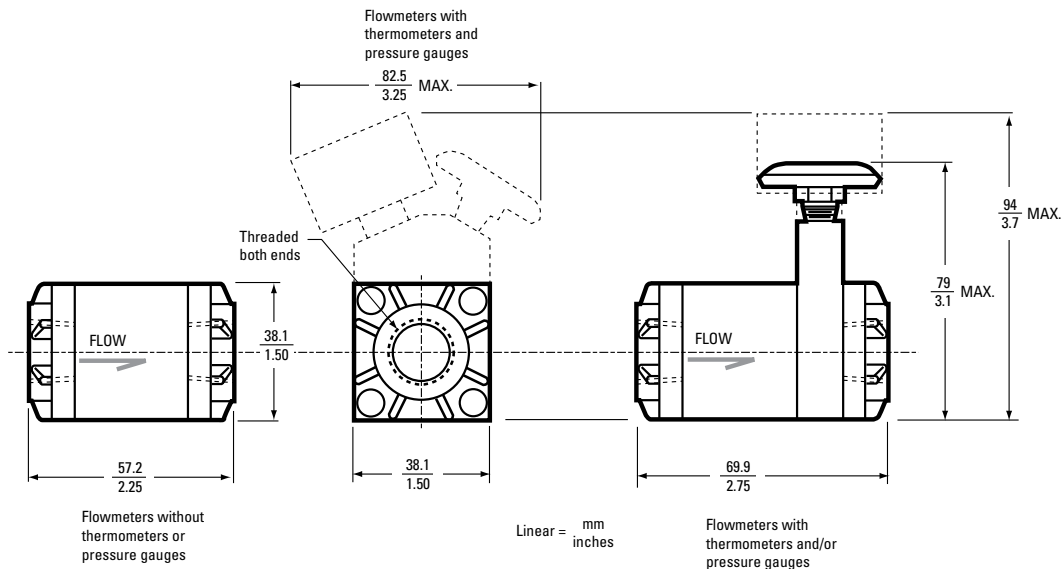
- Optional temperature and pressure gauges display pressure and temperature information in addition to flow in one unit
- No mounting restrictions ease installation in any position without extra brackets or hardware

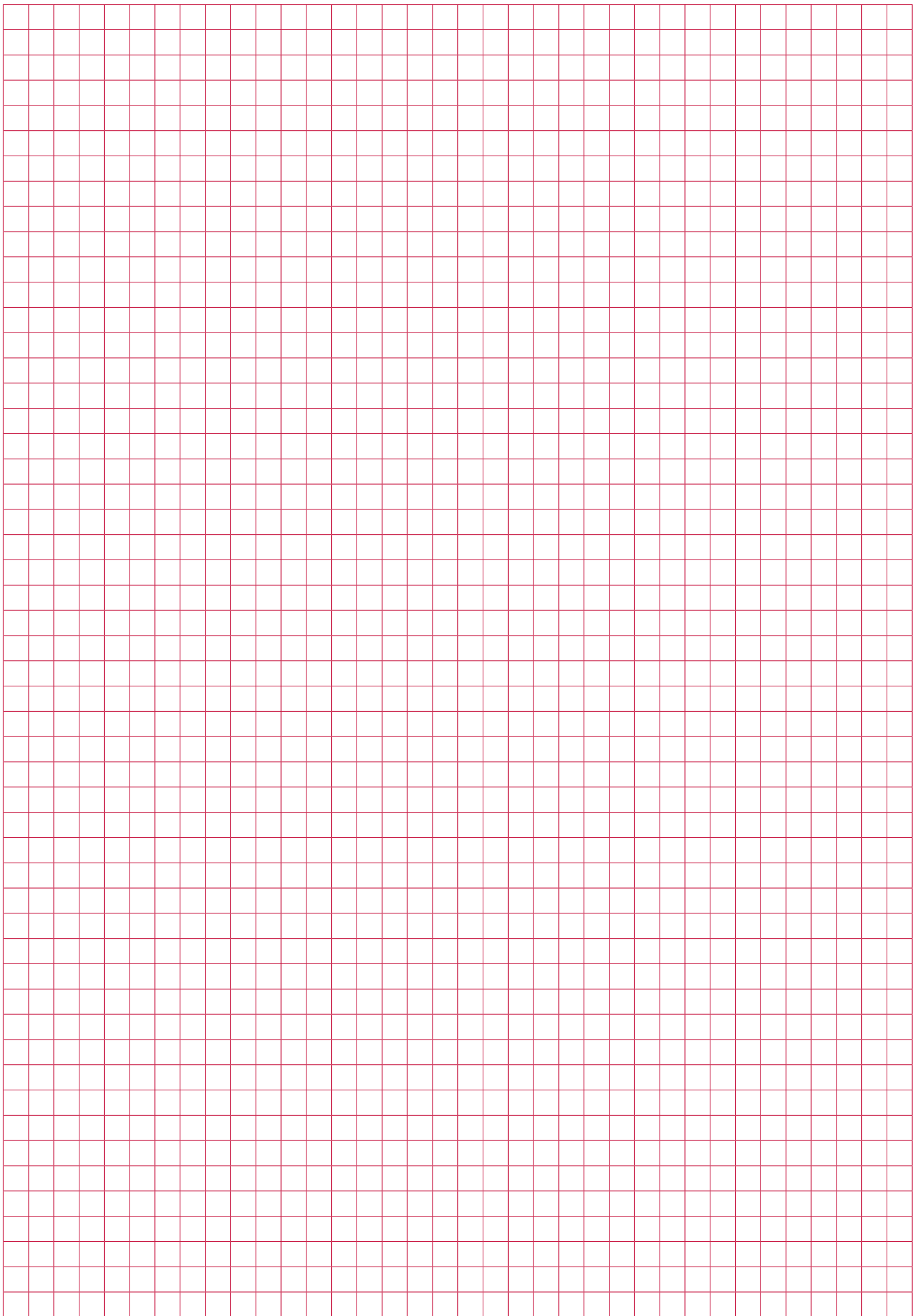
Wetted Parts and Materials

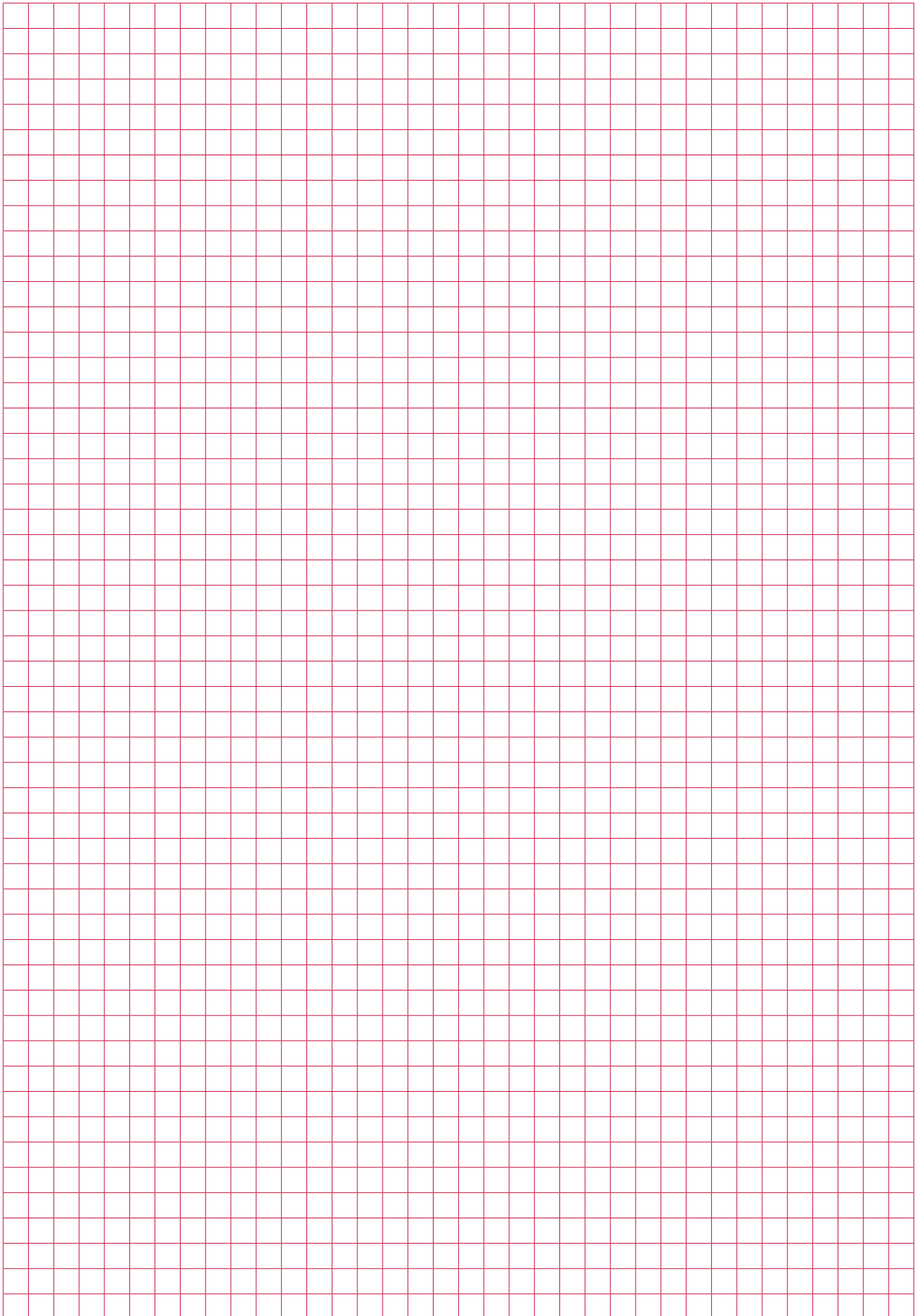
End Caps	Glass-filled nylon
Flow Body	Polysulfone
Vane	Glass-filled nylon
Spring	Stainless steel
O-Rings.....	EPDM
Cap Screws	Stainless steel
Optional Quick-Connect Fittings	Brass

Specifications

Flow Accuracy	±10% full scale
Operating Temperature	99°C max. (210°F max.)
Operating Pressure	100 PSI max. (6.9 bar max.)
Dial Thermometer	-20° to 120°C (0° to 250°F)
	±2% accuracy (full scale)
Pressure Gauge	0 to 700 Kpa (0 to 100 psi)
	±3% accuracy (full scale)









HOT RUNNER



Hot Runner Spare Parts

Cartridge Heaters.....	242
Bayonets	243



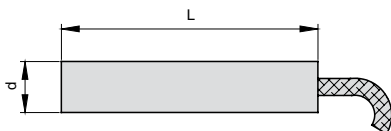
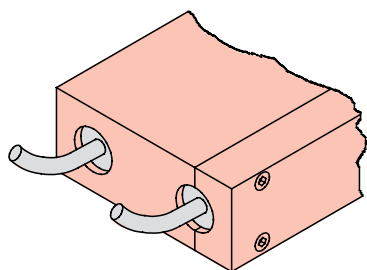
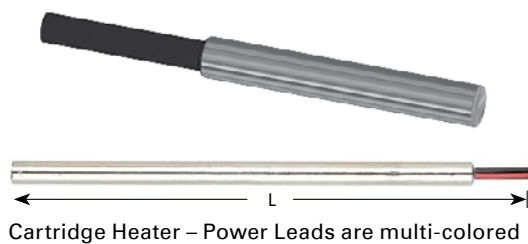
Hot Runner Spare Parts



ECH

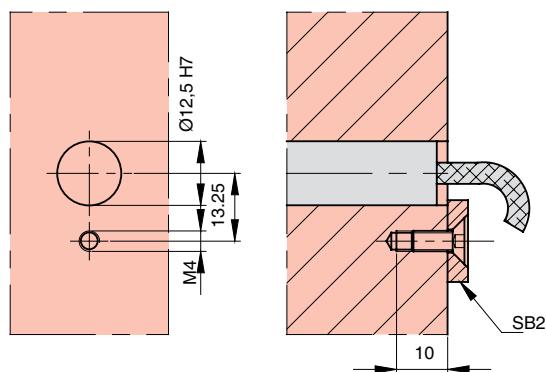
Standard cartridge heaters

Although these heaters do not employ integral thermocouples, they're designed and constructed to run at higher molding temperatures and provide longer life than conventional heaters.



REF	L	d	230 V Watt
ECH1103	100	12,5	460
ECH1104	115		530
ECH1105	130		600
ECH1106	140		665
ECH1107	150		735
ECH1108	165		800
ECH1109	180		870
ECH1110	190		940
ECH1111	205		1000
ECH1112	215		1080
ECH1113	230		1100
ECH1114	250		1240
ECH1115	280		1380
ECH1116	300		1500
ECH1117	380	1880	
ECH1118	460	2300	

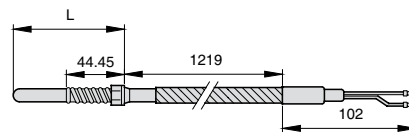
Installation Instructions



Straight type

TC

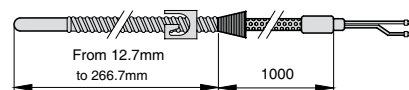
REF	L
TC2500	63,5
TC3500	88,9
TC6000	152,4



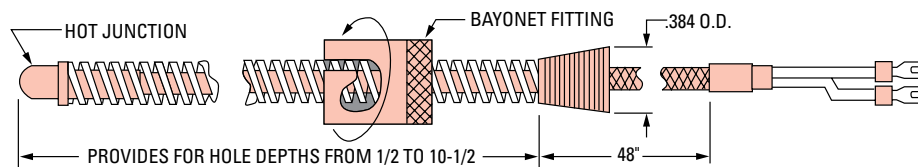
Adjustable type

TC

By turning the adjustable bayonet fitting along the spring, the DME Adjustable Thermocouple can be set for the desired immersion length, from 1/2" to 10 1/2". Spring will conform to any angle. Hot junction of ANSI Type J I/C calibrated leads is inside round tip. Flexible metal braid is 48" long with 2 1/2" of lead wires at the end and spade lugs for ease of connection.



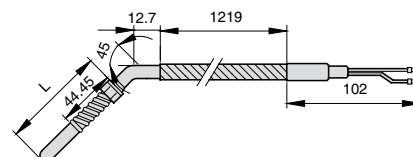
REF
TC8000



45° angle type

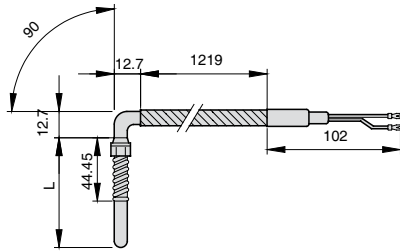
TC

REF	L
TC2545	63,5
TC3545	88,9
TC6045	152,4



TC

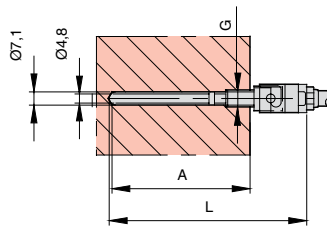
90° angle type



REF	L
TC2590	63,5
TC3590	88,9
TC6090	152,4

TC

Installation instructions TC

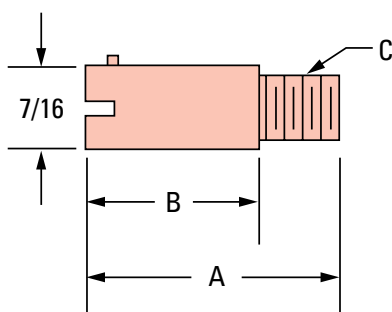
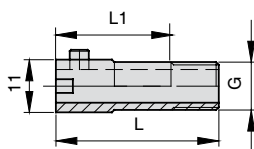


L	A		G
	22,2*	34,9*	
63,5	25,4 – 34,9	12,7 – 22,2	1/8-27 NPT
88,9	50,9 – 60,3	38,1 – 47,6	
152,4	114,3 – 123,8	101,6 – 111,1	3/8-24 UNF
266,7 MAX	12,7 – 266,7	12,7 – 266,7	

* Adapter length

BA

Bayonet adapter



The stainless steel bayonet adapters accommodate the spring loaded bayonet fitting on the thermocouple, to bottom the hot junction where temperature sensing is desired. Adapter requires tapped hole for mounting.

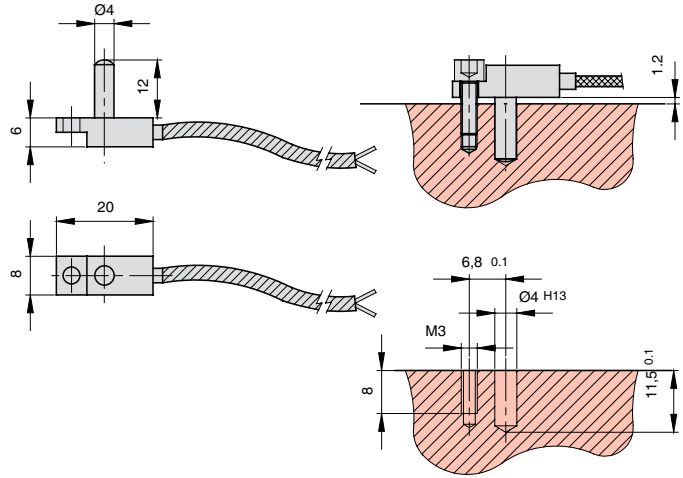
REF	L	L1	d
BA1007	22,2	11,8	1/8-27 NPT
BA1013	34,9	23,7	
BA4007	22,2	11,8	3/8-24 UNF
BA4013	34,9	23,7	

90° Screw-in Type

ETC

REF
ETC0170

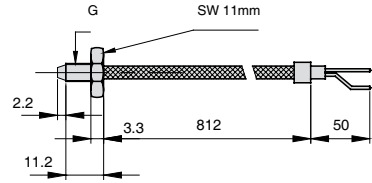
Installation instructions



Threaded type

ETC

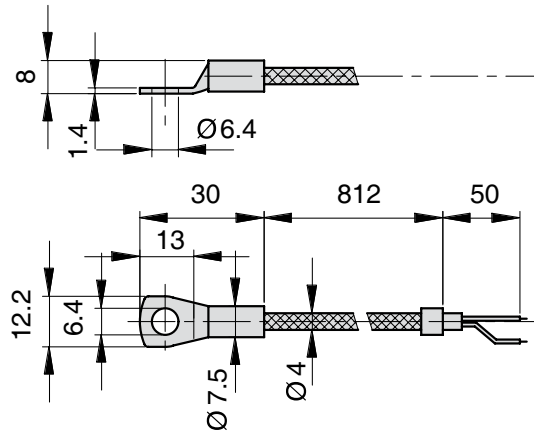
REF	L
ETC0251M	M6
ETC0251	1/4-28 UNF

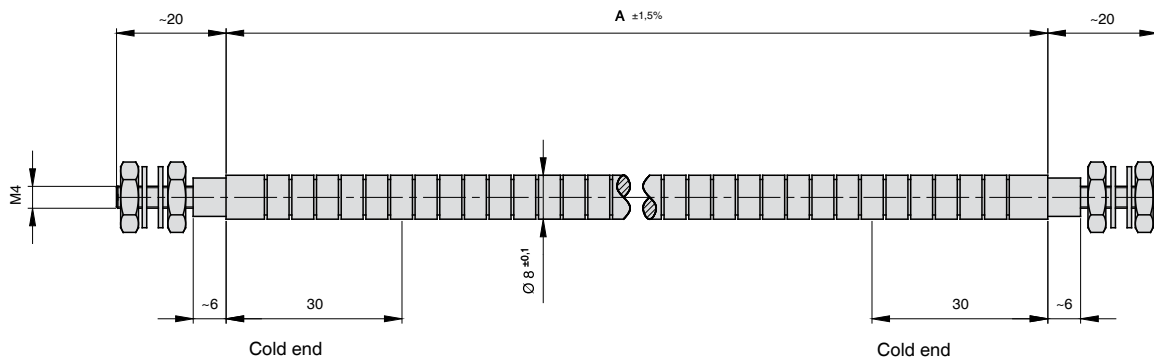


Flat washer type

ETC

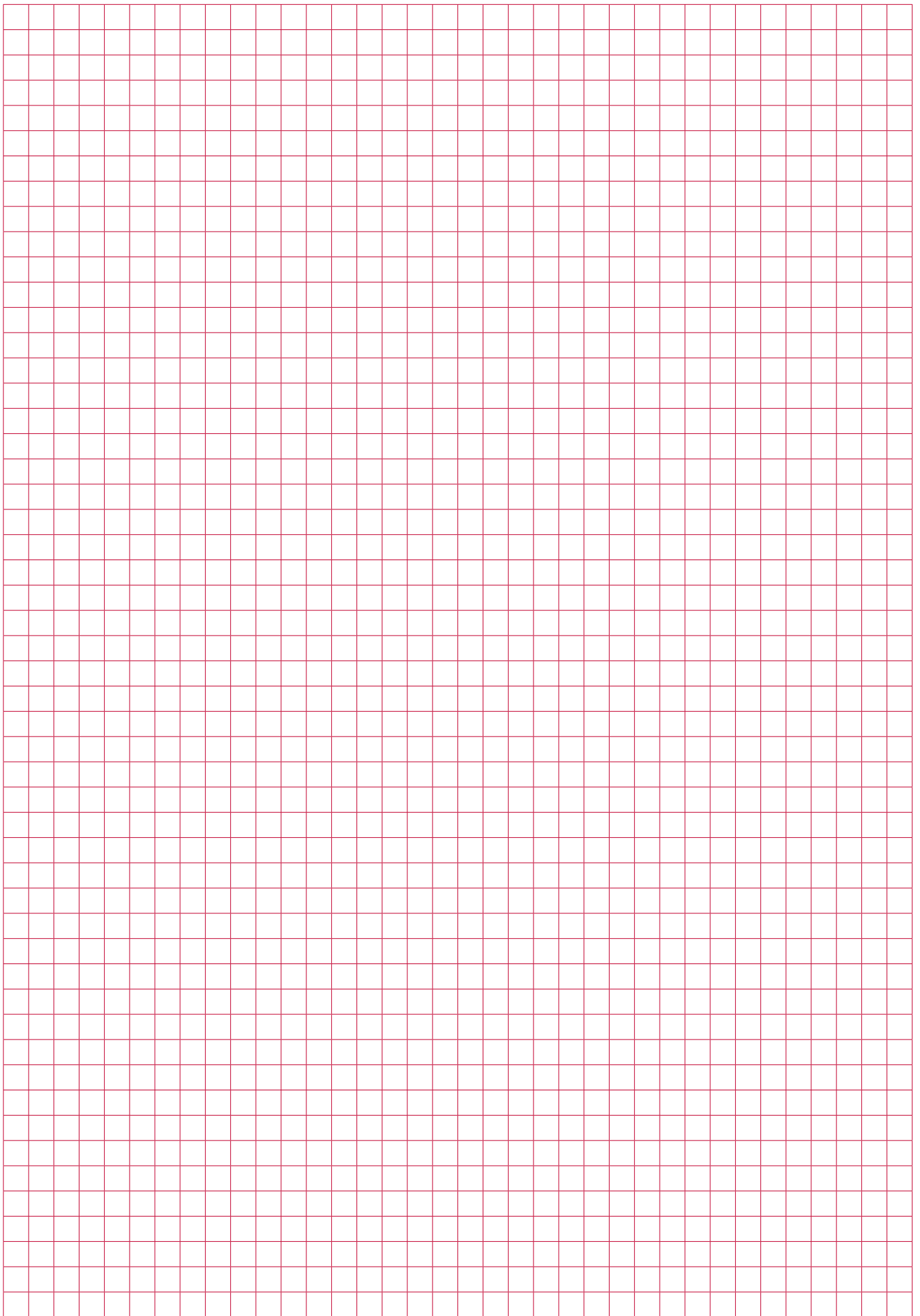
REF
ETC0168

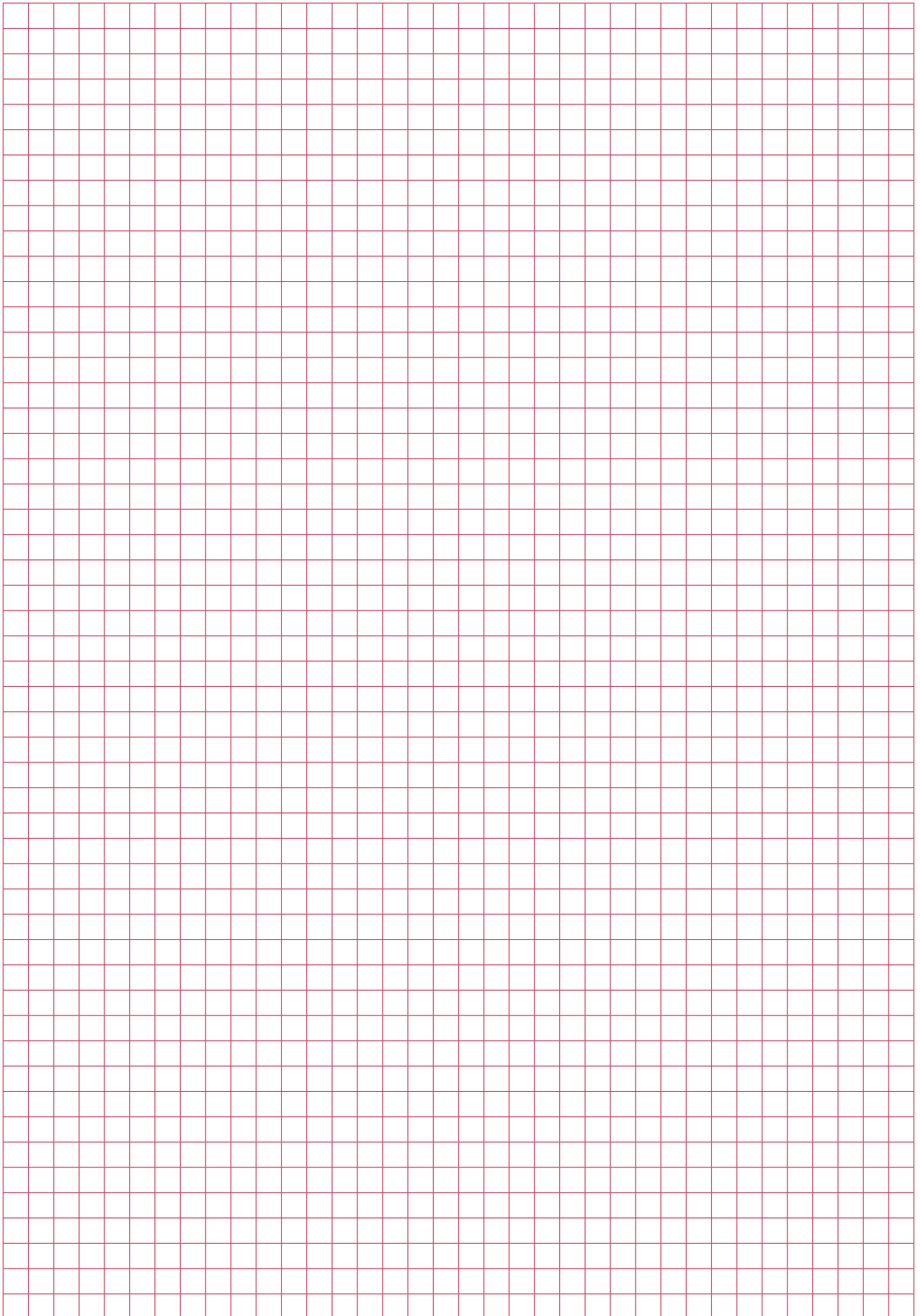




REF	230 Volt Watt	A
HFH8050	1000	500
HFH8055	1150	550
HFH8060	1300	600
HFH8065	1400	650
HFH8070	1500	700
HFH8075	1600	750
HFH8080	1650	800
HFH8085	1650	850
HFH8090	1900	900
HFH8095	2000	950
HFH8100	2100	1000

REF	230 Volt Watt	A
HFH8105	2200	1050
HFH8110	2300	1100
HFH8115	2400	1150
HFH8120	2500	1200
HFH8125	2600	1250
HFH8130	2700	1300
HFH8135	2800	1350
HFH8140	2900	1400
HFH8145	3000	1450
HFH8150	3200	1500







POLISHING SUPPLIES



Surface Finishing Devices

Ultrasonic Lapp & Polishing Machines.....	252
Powerpack	256
Handpieces	258
Handpieces	262
Motors.....	264
Accessories.....	265
Grande	267
Diamond Files	268
Ruby & Ceramic Stones	270
Tool Clamps	272
Motors.....	273
TurboLap Air Profilers	276

Other Tools & Ergonomics

Workbench.....	284
Tools.....	285

Diprofil Files & Tools

Di-Pro	290
Classic Diprofil	293
Protective Finger Sleeves	295
Dipromini.....	296
Dipromini Spare Parts	298
Dipromini Transverse	300
Dipromini Transverse Spare Parts.....	302
Rotary Handpieces.....	304
Drive Sources.....	307
Diamond Files	308
Diamond and CBN Rotary Tools	318
Precision CBN Tools.....	325
Polishing, Lapping & Honing Tools.....	327
Polishing Stones.....	331
Tool Holders	332
Precision Steel Files	334
Sets	336

Other Files

Swiss needle-point files.....	338
Vallorbe®, Riffler files	339
Files & Tools.....	341

Stones

Polishing Stones.....	348
Ceramic Stones.....	356
Super Diamond Stones	363

Abrasive & High Gloss Polishing

Abrasives	367
Diamond Foils	369
Diamond Pastes.....	370
Mold Finish Comparison Kit.....	371

Abrasive Polishing Sticks, Grinding Wheels

Mounted Points.....	374
Diamond Grinding Points	376
Grinding Wheels	379
Grinding Pins.....	381
Abrasive Caps, Belts, Discs & Carriers...	385

Polishing Brushes & Felt Polishing Bobs

Polishing Brushes.....	388
Polishing Bobs.....	389

Rotor Cutters

Rotor Cutters.....	392
Miniature Rotor Cutters	395



Surface Finishing Devices



UF 5600

Ultrasonic lapp and polishing machines



Ultrasonic lapp- and polishing machines

The use of ultrasonic energy in combination with conventional machining tools for the finishing of very small areas of molds and tools makes it possible to achieve a high-quality surface finish and to save time compared with conventional polishing methods.

The consistent development of the Ultraform systems as regards performance, efficiency and handling is bringing decisive improvements in the machining of spark-eroded gates, slots, cavities and complicated contours.

- 50 % increase in performance compared with previous models.
- New control electronics ensure a constant work output even when there is a variation in cutting pressures.
- The amplitude/stroke length is in the range 4-40 μm for optimum finishing.
- New, expanded tool range including ceramic stones and synthetic resin-bonded diamond stones.
- Universal hand piece UF 9700 enables the employment of the complete tool programme. Standard tools with M4 connecting thread for machining of small molds and tools with M6 connecting thread for large machining depths are available to the user. Special adapters also ensure that customised tools can be used.
- Model UF 5600 also permits the use of Argofile AF-Series electromechanical hand pieces. Modern transformer electronics achieve a constant torque and increased operational reliability of the hand pieces.

Includes:

- 1 ultrasonic hand piece UF 9700
- 1 wooden case for Ultrasonic hand piece
- 1 ultrasonic hand piece PHP 35
- 1 toolbox
- assembly spanner
- ear (plugs) protection
- fuses
- 1 adaptor MS 0064
- 1 protection cap UF 7025
- 1 diamond file SE 8851, SE 8751, SE 5845, SE 5745
- 1 diamond stone SD 5831, SD 5851, MD 8862
- 1 diamond stone MD 4872, MD 4772
- 1 ceramic stone SC 4548, SC 4448, SC 4561, SC 4461, SC 1530, SC 1430
- 1 polishing wood SO 1103, SO 4163
- 1 tool clamp MX 4008, MX 4020, MX 4010, MX 4030, MX 1030, UF 7023
- The model enables the use of Argofile AF-series electromechanical hand pieces.

Description	UF 5600
Supply voltage	220 V~ \pm 10%, 50 Hz
Power output	45 W max.
Output adjustment	continuously variable
Power consumption	200 W
Frequency of vibration	20,0 - 30,0 kHz
Frequency adaption	auto. comp.
Amplitude (stroke)	4 - 40 μm
Fuse	1,5 A (REF UF 7031)
Dimensions	162 x 280 x 210 mm
Weight	3,700 kg

REF

UF5600

Hand piece

UF 9700

Description	UF 9700
Cable length	2 m
Connecting thread	M6 or M4 with adaptors
Dimensions	Ø 15 x Ø 28 x 154 mm
Weight	0,130 kg



REF

UF9700

Foot switch

UF 7503

REF
UF7503



Foot switch

UF 7504

REF
UF7504



EPC200ST

ECO Polisher



The EPC200ST is a kit including the Ecopolisher machine and the accessories listed on 254 and 255.

Features:

- specially designed for efficient use of new super stones (see p. 218)
- easy to operate with the large volume knob
- easily check the amplitude of vibration with the LED indicator
- heat ventilation during long operating times via slits on the side
- space for hand piece stand or tools on top of controller
- vertical and flare shape for better stability

Handpiece:

- the best polishing angle is 30 - 45 degrees to exert sufficient ability
- easy operating, without special training
- very light-weight hand piece, no fatigue even after long use
- flat ceramic stones (thickness of 0.5-1.5mm and width of 0.5-8.0 mm) and round ceramic stones (diameter 2.35 mm and 3.0 mm) can be used

Foot switch:

- compact size and light-weight
- hand piece can only be used when foot switch is pressed

EPC 200

Controller



Description	EPC 200
Input voltage	AC220V (EPC-200)
Power consumption	Max. 30W
Maximum output	25 W
Frequency of vibration	25 kHz
Size	W109 x D188 x H176 mm
Weight	860 gr

REF
EPC200

EPH 100

Hand piece



Description	EPH 100
Vibration element	PZT piezoelectric
Size	16/26 Ø x 112 L (mm)
Weight	95 gr
Cord length	1.75m straight type
Tool attach. screw	M6

REF
EPH100

EPF 100

Foot switch



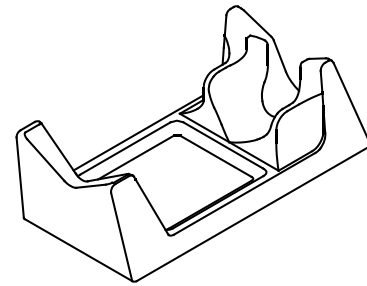
Description	EPF 100
Cord length	1.9 m
Size	W60 x D100 x H30 mm
Type	ON/OFF type

REF
EPF100

Hand piece stand

EPC 107

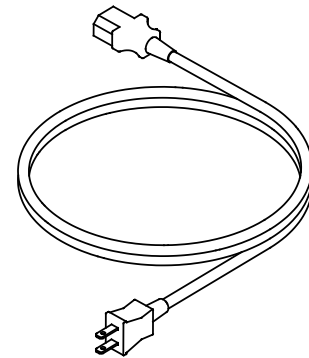
REF	Size
EPC107	W50 x D100 x H40 mm



Power Cord

EP 112

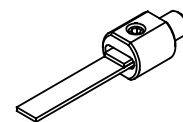
REF	Length
EP112	2.1 m



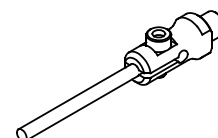
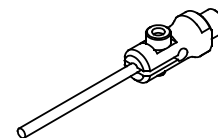
Ceramic holders

EPC 10...

REF	Size
EPC101	0.5mm ~1.5mm
EPC102	Ø 2.34 mm
EPC103	Ø 3.0 mm



Tighten the fixing bolt when using.





The completely re-designed power pack PA 480 offers improved engineering paired with modern outlook. The well arranged foil control panel protects the unit from acidic substances. Power output depending on utilisation factor is controlled by integrated micro control conductors. By using modern MOFSET-technology a minimum amount of power dissipation is obtained, which also results in low heating of the power pack. The sturdy metal housing is shock-proof and dirt resistant. Appropriate hand pieces are available to suit the various applications. The Argofile units have been designed in accordance with the latest state-of-the-art and ergonomic requirements. By all means a fatigue-free operation is ensured since the power pack is running in a silent and low vibration manner. The hand pieces are connected to the unit via flexible cables.

Description	PA 480
Supply voltage	230 V~ ± 10%, 50 Hz
Output voltage	0 - 30 V = (DC)
Power output	max. 2 x 70 W
Outputs	2, individually controlled
Fuse	2,0 A
Dimensions	259 x 240 x 81 mm
Weight	3,900 kg

REF
PA480

Maxima ex micromotor system

EXP230

Input voltage: 230V (AC100, 120 upon request)
Weight: 2,3 kg
Dimensions: 200 x 180 x 110 mm (W x D x H)

Micro computer control: Built-in micro computer automatically controls the best suited torque for each motor enabling smooth operation.


Auto cruise foot pedal: possible fixed rotation speed when using a foot pedal.

Self diagnostic function: Self checking motor and controller . Automatic cooling in case of overheating.

REF
EXP230



Load indicator: Clear 8-step load indicator with overwork caution for longer service life.



Digital rotation display: 2 digit display for easy rotation speed adjustment.

Operation volume control: Adjustable sound alarm in case of overworks.

Mode selection: Controller automatically finds motor on A or B. Connecting a foot pedal is also possible.

Error code: An error code for easy troubleshooting is displayed in case of e.g. overheating, overload, or defects...

Rotary Handpieces

EX...



! To connect UF 5600 use conversion cable **KE50-156**

Two-piece construction and detachable head.

REF	Combination	Max. Rotation	Max. Torque	Old REF
EX051	Motor EX05 + head JA15	55,000 rpm	3.6 N.cm	LA051
EX121	Motor EX12 + Head JA15	20,000 rpm	6.4 N.cm	LA121
EX131	Motor EX13 + Head JA15	35,000 rpm	5.4 N.cm	LA131
EX201	Motor EX20 + Head JA15	8,000 rpm	9.8 N.cm	LA201
EX211	Motor EX21 + Head JA15	15,000 rpm	8.8 N.cm	LA211
EX231	Motor EX23 + Head JA15	30,000 rpm	6.8 N.cm	LA231
EX208	Motor EX20 + Head JP11	8,000 rpm	9.8 N.cm	LA208
EX216	Motor EX21 + Head JR21	15,000 rpm	8.8 N.cm	LA216
EX217	Motor EX21 + Head JS21	15,000 rpm	8.8 N.cm	LA217

EX051

Rotary Handpieces



55,000rpm / High Speed
 Rated input voltage : 0-30V.DC
 Max torque : 3.6 N.cm
 Weight : 190 g
 Standard collet size : 2.35 mm, 3.0 mm
 Special collet size : 3.175 mm

REF	Combination	Max. Rotation	Max. Torque	Old REF
EX051	Motor EX05 + head JA15	55,000 rpm	3.6 N.cm	LA051

EX121

Rotary Handpieces



20,000rpm / High Torque
 Rated input voltage : 0-30V.DC
 Max torque : 6.4 N.cm
 Weight : 220 g
 Standard collet size : 2.35 mm, 3.0 mm
 Special collet size : 3.175 mm

REF	Combination	Max. Rotation	Max. Torque	Old REF
EX121	Motor EX12 + Head JA15	20,000 rpm	6.4 N.cm	LA121

EX131

Rotary Handpieces



35,000rpm / All-Arounder
 Rated input voltage : 0-30V.DC
 Max torque : 5.4 N.cm
 Weight : 220 g
 Standard collet size : 2.35 mm, 3.0 mm
 Special collet size : 3.175 mm

REF	Combination	Max. Rotation	Max. Torque	Old REF
EX131	Motor EX13 + Head JA15	35,000 rpm	5.4 N.cm	LA131

Rotary Handpieces

EX201



8,000rpm / Super Torque
 Rated input voltage : 0-30V.DC
 Max torque : 9.8 N.cm
 Weight : 276 g
 Standard collet size : 2.35 mm, 3.0 mm
 Special collet size : 3.175 mm

REF	Combination	Max. Rotation	Max. Torque	Old REF
EX201	Motor EX20 + Head JA15	8,000 rpm	9.8 N.cm	LA201

Rotary Handpieces

EX211



15,000rpm / High Torque
 Rated input voltage : 0-30V.DC
 Max torque : 8.8 N.cm
 Weight : 276 g
 Standard collet size : 2.35 mm, 3.0 mm
 Special collet size : 3.175 mm

REF	Combination	Max. Rotation	Max. Torque	Old REF
EX211	Motor EX21 + Head JA15	15,000 rpm	8.8 N.cm	LA211

Rotary Handpieces

EX231



30,000rpm / All-Arounder
 Rated input voltage : 0-30V.DC
 Max torque : 6.8 N.cm
 Weight : 276 g
 Standard collet size : 2.35 mm, 3.0 mm
 Special collet size : 3.175 mm

REF	Combination	Max. Rotation	Max. Torque	Old REF
EX231	Motor EX23 + Head JA15	30,000 rpm	6.8 N.cm	LA231

EX208

Rotary Handpieces



Swing stroke (0 - 1,6 mm) and stroke frequency (0 - 8.000 min⁻¹) can be adjusted freely.
 Tool holding fixture to max. 4 mm.
 Rated input volt.: 0-30 V =
 Stroke frequency: 0 - 8.000 min⁻¹
 Motor torque: 0,073 Nm
 Dimensions: Ø 31,6 x 166 x 53 mm
 Weight: 0,290 kg

REF	Combination	Max. Rotation	Max. Torque	Old REF
EX208	Motor EX20 + Head JP11	8,000 rpm	9.8 N.cm	LA208

EX216

Angle hand piece 90°



Hand operated quick release collet mechanism for rapid tool change.
 Rated input volt.: 0-30 V =
 Rotation speed: 0 - 15.000 min⁻¹
 Dimensions: Ø 31,6 x 166 x 53 mm
 Weight: 0,200 kg

REF	Combination	Max. Rotation	Max. Torque	Old REF
EX216	Motor EX21 + Head JR21	15,000 rpm	8.8 N.cm	LA216

EX217

Angle hand piece 120°



Hand operated quick release collet mechanism for rapid tool change.
 Rated input volt.: 0-30 V =
 Rotation speed: 0 - 15.000 min⁻¹
 Dimensions: Ø 31,6 x 166 x 53 mm
 Weight: 0,200 kg

REF	Combination	Max. Rotation	Max. Torque	Old REF
EX217	Motor EX21 + Head JS21	15,000 rpm	8.8 N.cm	LA217

Diprofil, Miniature hand-filing machine

JA 60 / JA 65

For motor EX 20

REF

JA60

JA65



Description	JA 60	JA 65
Linear Stroke	0,5 mm	1,8 mm
Stroke frequency	0 - 7.000 min ⁻¹	0 - 7.000 min ⁻¹
Toolholder	Ø maxi. 3,5 mm	Ø maxi. 3,5 mm
Dimensions	Ø 24 mm	Ø 24 mm
Weight	0,120 kg	0,120 kg

Reciprofile

RE 35

RE35 reciprocating profilers are light-weight and comfortable handpieces for continuous polishing. Both models have adjustable stroke and floating head with 360 degrees orientation.

Rated input voltage : 0-30V. DC
 Available tool size : 2.0 – 6.35 mm diameter.
 Reciprocating Stroke : 0 – 6 mm
 Frequency : 420 – 4,200 strokes/min.
 Weight : 675 g



REF

RE35

Reciprofile

RE 55

RE55 reciprocating profilers are light-weight and comfortable handpieces for continuous polishing. Both models have adjustable stroke and floating head with 360 degrees orientation.

Rated input voltage : 0-30V. DC
 Available tool size : 2.0 – 6.35 mm diameter.
 Reciprocating Stroke : 0 – 2mm
 Frequency : 700 – 7,000 strokes/min.
 Weight : 675 g



REF

RE55

Belt Sander

BS 33

Suitable for deburring, removing EDM and machine tool marks, and sanding flat and curved surface and narrow slots.

Rated input voltage : 0-30V.DC
 Belt Speed : 5 – 12 m/sec.
 Weight : 400 g



REF

BS33

EX05

Motors



Motors 55,000 rpm
 Rated input voltage : 0-30V.DC
 Max torque : 3.6 N.cm
 Weight : 90 g

REF

EX05

EX12

Motors



Motors 20,000 rpm
 Rated input voltage : 0-30V.DC
 Max torque : 6.4 N.cm
 Weight : 120 g

REF

EX12

EX13

Motors



Motors 35,000 rpm
 Rated input voltage : 0-30V.DC
 Max torque : 5.4 N.cm
 Weight : 120 g

REF

EX13

EX20

Motors



JAG60

JAG65

JP 11

JS 21

JR 21

JA 45

JA 33

JA 15

Motors 8,000 rpm
 Rated input voltage : 0-30V.DC
 Max torque : 9.8 N.cm
 Weight : 176 g

REF

EX20

EX21

Motors



JS 21

JR 21

JA 45

JA 33

JA 15

Motors 15,000 rpm
 Rated input voltage : 0-30V.DC
 Max torque : 8.8 N.cm
 Weight : 176 g

REF

EX21

Motors

EX23

Motors 30,000 rpm
 Rated input voltage : 0-30V.DC
 Max torque : 6.8 N.cm
 Weight : 176 g



JA 45



JA 33



JA 15

REF

EX23

Standard head

JA 15

Includes:

- Collet chucks 2,35 + 3,0 mm suitable for motors EX20 (old ref LA20), EX21 (old ref LA21), EX23 (old ref LA23)
- Suitable collet chucks SP ... of sizes 0,5 to 3 mm



REF

JA15

High performance head

JA 33

Includes:

- Collet chuck 6,0 mm suitable for motors EX20 (old ref LA20), EX21 (old ref LA21), EX23 (old ref LA23)
- Suitable collet chucks SP ... of sizes 2.35 to 6.35 mm



REF

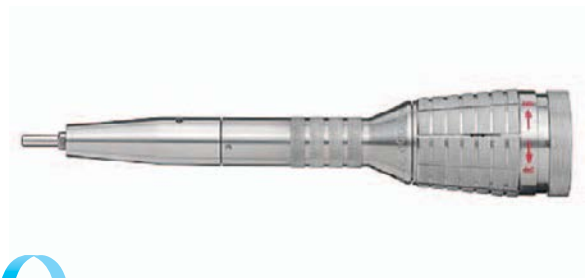
JA33

Special head

JA 45

Includes:

- Collet chuck 3,0 mm suitable for motors EX20 (old ref LA20), EX21 (old ref LA21), EX23 (old ref LA23)
- Suitable collet chucks SP ... of sizes 2.0 to 3.2 mm



REF

JA45

JR 21 90

Angle head 90°



Includes:

- Collet chucks 2,35 + 3,0 mm, suitable for motor EX20 (old ref LA20), EX21 (old ref LA21)
- Suitable collet chucks SP ... of sizes 2.0 to 3.2 mm

REF
JR21

JS 21 120

Angle head 120°



Includes:

- Collet chucks 2,35 + 3,0 mm, suitable for motor EX20 (old ref LA20), EX21 (old ref LA21)
- Suitable collet chucks SP ... of sizes 2.0 to 3.2 mm

REF
JS21

JP 11

Swivel head



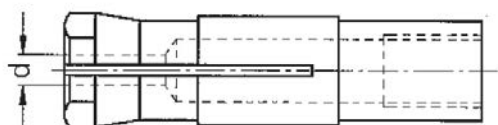
Features:

- Suitable for motor EX20 (old ref LA20), EX21 (old ref LA21)
- Swing stroke (0-1,6 mm) and stroke frequency (0-8.000 min⁻¹) can be adjusted freely.
- Tool holding fixture to max. 4 mm.

REF
JP11

JRS 90

Collet chucks



REF	d	for heads
JRS90160	1,6	SAE 90 SA 90, SA 120
JRS90235	2,35	
JRS90300	3,0	

Maxima power pack

PS 220 PP

Features:

- powerful single powerpack system from MAXIMA starter kit
- compact size, continual variable speedcontrol
- automatic stop with alarm beep & red light
- resets when overloaded
- 1 connection for LA micro motor

REF

PS220PP



Foot control for PS 220 PP

TPF 77



Foot switch for PA 480

VC 10

Foot switch for continuously variable power control

REF

VC10



Foot switch for PA 480

FS 18

On-/ Off- Foot switch

REF

FS18



VC 90

Foot control for EXP-120/230



Suitable for EXP-120/230

REF

VC90

KE 50155

Extention Cord



Suitable for EXP-120/230
Length : 3.0 meters

REF

KE50155

KE 50156

Adaptor



For PA111/113

REF

KE50156

EC 30

Extension cord



Not suitable for EXP-120/230

REF

EC30

Grande hybrid micromotor system
BLH 600 ST
Features:

- Super high speed 50000 rpm
- Silent Construction
- Auto Cruise system
- RPM Digital Display
- Long Time operation
- Ego diagnostic System with Alarm
- Easy Collet change - standard 3mm installed
- 2 possible connections: 1 conventional/ 1 brushless

Includes:

- 1x Super high speed brushless handpiece (BLH600)
- 1x Hybrid controller (GRC2000)
- 1x Speed control foot pedal (GRF60)
- 2x Hand piece holder (GRC02)
- 1x Diamond points set (DBS30)
- 1x Collet changing jig set (BLH6070)


REF
BLH600ST
Super high speed brushless handpiece
BLH 600
Features:

- Super high speed Max. 50000 rpm
- Silent Construction
- High torque 230 Watt
- Weight: 230 gr

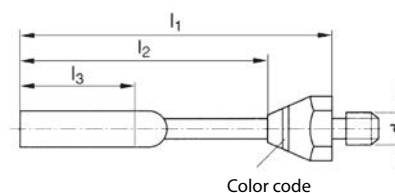

REF
BLH600
High torque adaptor
BLHADA
Features:

- More than double the torque of your system
- For Grande hand piece BLH600 only
- For various heads: JA15, JA33, JA11, JA45, JR21, JS21, JA60 & JA 65
- Remark: Adjust lower rpm on your system to avoid unnecessary high speed.


REF
BLHADA

UE... / ME... / SE...

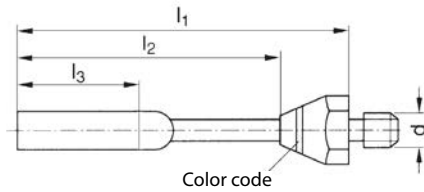
Electro-bonded



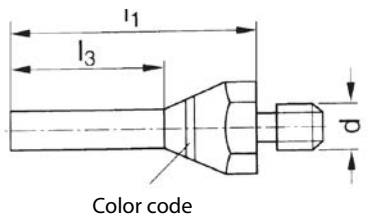
REF	Grain	Color	a x b	l1	l2	l3	d	Shape
UE5851K0200	200	red	1 x 5	145	125	20	M 8	
UE5751K0320	320	black	1 x 5	145	125	20	M 8	
UE5551K0600	600	white	1 x 5	145	125	20	M 8	
UE5881K0200	200	red	1 x 8	145	125	20	M 8	
UE5781K0320	320	black	1 x 8	145	125	20	M 8	
UE5581K0600	600	white	1 x 8	145	125	20	M 8	
			a x b					
ME9881K0200	200	red	1 x 8	93	73	20	M 6	
ME9781K0320	320	black	1 x 8	93	73	20	M 6	
ME9581K0600	600	white	1 x 8	93	73	20	M 6	
			a x b					
ME9851K0200	200	red	1 x 5	93	73	20	M 6	
ME9751K0320	320	black	1 x 5	93	73	20	M 6	
ME9551K0600	600	white	1 x 5	93	73	20	M 6	
			a x b					
SE4841	200	red	1 x 4	37	28	15	M 4	
SE4741	320	black	1 x 4	37	28	15	M 4	
SE4541	600	white	1 x 4	37	28	15	M 4	
			a x b					
SE8851	200	red	1 x 5	133	124	40	M 4	
SE8751	320	black	1 x 5	133	124	40	M 4	
SE8551	600	white	1 x 5	133	124	40	M 4	
			a x b					
SE5845	200	red	0,5 / 1x4	44	-	15	M 4	
SE5745	320	black	0,5 / 1x4	44	-	15	M 4	
SE5545	600	white	0,5 / 1x4	44	-	15	M 4	
			a x b					
SE7841	200	red	4 x 1	34	25	15	M 4	
SE7741	320	black	4 x 1	34	25	15	M 4	
SE7541	600	white	4 x 1	34	25	15	M 4	
			a x b					
REF	Grain	Color	a	l1	l2	l3	d	Shape
SE3803	200	red	3	34	25	15	M 4	
SE3703	320	black	3	34	25	15	M 4	
SE3503	600	white	3	34	25	15	M 4	
			d 1					
SE6803	200	red	3	34	25	15	M 4	
SE6703	320	black	3	34	25	15	M 4	
SE6503	600	white	3	34	25	15	M 4	
			a x b					
SE5532	600	white	3 x 2	34	25	15	M 4	

Sintered

MD ... / SD ...



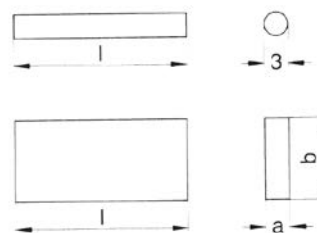
REF	Grain	Color	a x b	l1	l2	l3	d	Shape
MD8862K0200	200	red	1,5 x 6	80	71	15	M 6	
MD8762K0320	320	black	1,5 x 6	80	71	15	M 6	
			a x b					
MD9865K0200	200	red	0,5/1,5x6	80	71	15	M 6	
MD9765K0320	320	black	0,5/1,5x6	80	71	15	M 6	
			a x b					
SD5861	200	red	1,0 x 6	62	53	18	M 4	
SD5761	320	black	1,0 x 6	62	53	18	M 4	
			a x b					
SD5831	200	red	1 x 3	41	32	10	M 4	
SD5731	320	black	1 x 3	41	32	10	M 4	
REF	Grain	Color	a x b	l1	l2	l3	d	Shape
SD5851	200	red	1 x 5	41	32	10	M 4	
SD5751	320	black	1 x 5	41	32	10	M 4	
			d 1					
SD1802	200	red	2	37	28	7	M 4	
SD1702	320	black	2	37	28	7	M 4	
SD1602	500	blue	2	37	28	7	M 4	
SD1302	1000	green	2	37	28	7	M 4	
SD1803	200	red	3	39	30	10	M 4	
SD1703	320	black	3	39	30	10	M 4	
SD1603	500	blue	3	39	30	10	M 4	
SD1303	1000	green	3	39	30	10	M 4	



REF	Grain	Color	a x b	l1	l3	d	Shape
SD4831	200	red	1 x 3	24	15	M 4	
SD4731	320	black	1 x 3	24	15	M 4	
SD4631	500	blue	1 x 3	24	15	M 4	
SD4331	1000	green	1 x 3	24	15	M 4	
SD4851	200	red	1 x 5	24	15	M 4	
SD4751	320	black	1 x 5	24	15	M 4	
SD4651	500	blue	1 x 5	24	15	M 4	
SD4351	1000	green	1 x 5	24	15	M 4	
			a x b				
SD4862	200	red	1,5 x 6	34	25	M 4	
SD4762	320	black	1,5 x 6	34	25	M 4	
SD4662	500	blue	1,5 x 6	34	25	M 4	
SD4362	1000	green	1,5 x 6	34	25	M 4	

SC... / LC ...

Ceramic stones

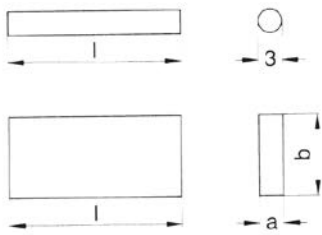


Dimensions 2,0 x 2,0 x 40 mm, available in all grain sizes upon request.

REF	Grain	Shape	Color	a x b	l	
SC49480804K0120	120	flat	green	0,8 x 4	40	5
SC48480804K0180	180	flat	gold	0,8 x 4	40	5
SC47480804K0300	300	flat	light brown	0,8 x 4	40	5
SC46480804K0400	400	flat	orange	0,8 x 4	40	5
SC45480408K0600	600	flat	brown	0,8 x 4	40	5
SC44480408K0800	800	flat	blue	0,8 x 4	40	5
SC43480408K1000	1000	flat	white	0,8 x 4	40	5
SC42480408K1200	1200	flat	red	0,8 x 4	40	5
SC49680806K0120	120	flat	green	0,8 x 6	40	5
SC48680806K0180	180	flat	gold	0,8 x 6	40	5
SC47680806K0300	300	flat	light brown	0,8 x 6	40	5
SC46680806K0400	400	flat	orange	0,8 x 6	40	5
SC45680608K0600	600	flat	brown	0,8 x 6	40	5
SC44680608K0800	800	flat	blue	0,8 x 6	40	5
SC43680608K1000	1000	flat	white	0,8 x 6	40	5
SC42680608K1200	1200	flat	red	0,8 x 6	40	5
SC49411004K0120	120	flat	green	1,0 x 4	40	5
SC48411004K0180	180	flat	gold	1,0 x 4	40	5
SC47411004K0300	300	flat	light brown	1,0 x 4	40	5
SC46411004K0400	400	flat	orange	1,0 x 4	40	5
SC45410410K0600	600	flat	brown	1,0 x 4	40	5
SC44410410K0800	800	flat	blue	1,0 x 4	40	5
SC43410410K1000	1000	flat	white	1,0 x 4	40	5
SC42410410K1200	1200	flat	red	1,0 x 4	40	5
SC49611006K0120	120	flat	green	1,0 x 6	40	5
SC48611006K0180	180	flat	gold	1,0 x 6	40	5
SC47611006K0300	300	flat	light brown	1,0 x 6	40	5
SC46611006K0400	400	flat	orange	1,0 x 6	40	5
SC45610610K0600	600	flat	brown	1,0 x 6	40	5
SC44610610K0800	800	flat	blue	1,0 x 6	40	5
SC43610610K1000	1000	flat	white	1,0 x 6	40	5
SC42610610K1200	1200	flat	red	1,0 x 6	40	5
LC49622006K0120	120	flat	green	2,0 x 6	40	5
LC48622006K0180	180	flat	gold	2,0 x 6	40	5
LC47620620K0300	300	flat	light brown	2,0 x 6	40	5
LC46620620K0400	400	flat	orange	2,0 x 6	40	5
LC45620620K0600	600	flat	brown	2,0 x 6	40	5
LC44620620K0800	800	flat	l blue	2,0 x 6	40	5
LC43620620K1000	1000	flat	white	2,0 x 6	40	5
LC42620620K1200	1200	flat	red	2,0 x 6	40	5
LC49122012K0120	120	flat	green	2,0 x 12	40	5
LC48122012K0180	180	flat	gold	2,0 x 12	40	5
LC47122012K0300	300	flat	light brown	2,0 x 12	40	5
LC46122012K0400	400	flat	orange	2,0 x 12	40	5
LC45121220K0600	600	flat	brown	2,0 x 12	40	5
LC44121220K0800	800	flat	blue	2,0 x 12	40	5
LC43121220K1000	1000	flat	white	2,0 x 12	40	5
LC42121220K1200	1200	flat	red	2,0 x 12	40	5

Ceramic stones

SC... / LC ...



Dimensions 2,0 x 2,0 x 40 mm, available in all grain sizes upon request.

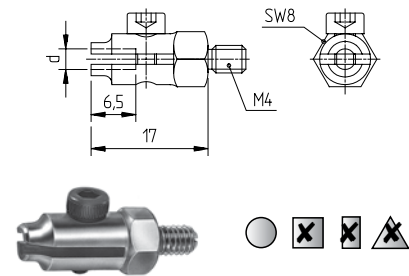
REF	Grain	Shape	Color	Ø	l	
SC1930DIA3K0120	120	round	green	3,0	30	5
SC1830DIA3K0180	180	round	gold	3,0	30	5
SC1730DIA3K0300	300	round	light brown	3,0	30	5
SC1630DIA3K0400	400	round	orange	3,0	30	5
SC1530DIA3K0600	600	round	brown	3,0	30	5
SC1430DIA3K0800	800	round	blue	3,0	30	5
SC1330DIA3K1000	1000	round	white	3,0	30	5
SC1230DIA3K1200	1200	round	red	3,0	30	5

Tool clamps

SX 10 ...

For ultrasonic handpiece UF 9000 and UF 9700 with adaptor Material: steel

REF	d
SX1002	2
SX1003	3
SX1004	4
SX1005	5
SX1006	6

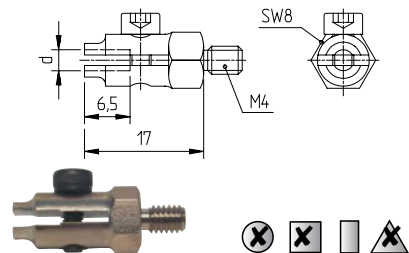


Tool clamps

SX 4012

For ultrasonic handpiece UF 9000 and UF 9700 with adaptor Material: steel

REF	s
SX4012	2

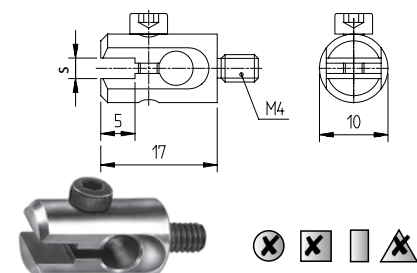


Tool clamps

SX 40 ...

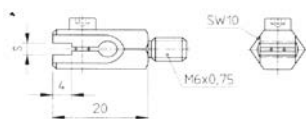
For ultrasonic handpiece UF 9000 and UF 9700 with adaptor Material: steel

REF	s
SX4008	0.8
SX4011	1.1
SX4031	3.1
SX4033	3.1



MX 40 ...

Tool clamps

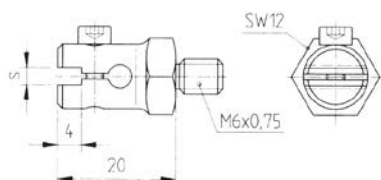


For ultrasonic handpiece UF 9700
Material: steel

REF	s
MX4008	0,8
MX4010	1,0
MX4020	2,0
MX4030	3,0
MX4033	3,3

MX 41 ...

Tool clamps

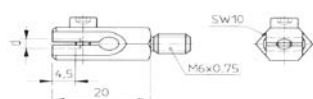


For ultrasonic handpiece UF 9700
Material: steel

REF	s
MX4110	1,0
MX4120	2,0
MX4130	3,0
MX4133	3,3
MX4140	4,0
MX4150	5,0

MX 10 ...

Tool clamps



For ultrasonic handpiece UF 9700
Material: steel

REF	d
MX1020	2,0
MX1030	3,0
MX1033	3,3

Suspended Motor Premium

Features:

- continuous speed regulation up to 24000 rpm
- power 800 W
- high performance at low speed
- safe soft start-up
- to use with electronic speed control, also available with speed limitation control

REF

HMPRE24J

HM PRE 24 J



Controller

- electronic foot control (pedal) up to 24000 min⁻¹; continuous speed regulation
- electronic foot control (round) up to 24000 min⁻¹; continuous speed regulation
- desk control up to 24000 min⁻¹; continuous speed regulation

REF

HMPREFC2401

HMPREFC2402

HMPREFC2403

HM PRE FC 24 0...



Flexible shaft

Features:

- connection type "J"
- with expanding spring or duplex spring
- 6 x 1100 mm
- motor side connection: Quick-change (universal fit)

REF

HMFLEXJ-PDUP

HMFLEXJ-PEXP

HM FLEX J-P



"P-type" : Quick-change motor connection (fits all)

Flexible shaft

Features:

- connection type "J"
- with expanding spring or duplex spring
- 6 x 1100 mm
- motor side connection: Standard connection type

REF

HMFLEXJDUP

HMFLEXJEXP

HM FLEX J



"J-type": Standard motor connection

HM PRE 24 JP SET

Premium Series Set



- Includes:
- Suspended motor Premium (HM PRE 24 J)
 - electronic foot control (HM PRE FC 24 02)
 - Quick-change flexible shaft (HM FLEX J-P DUP)

handpiece not included

REF
HMPRE24JPSET

HM ACC 0...

Accessories



- movable telescopic stand with tool deposit
- telescopic table stand
- toolholder

REF
HMACC01
HMACC02
HMACC03

BWA 35

Handpiece



- Includes:
- Collet chuck SP 1423 (Ø2,35)
 - Collet chuck SP 1430 (Ø3,0)
 - Others upon request

Description	BWA 35
Collet chuck	2,35 - 3 mm
Length	max. 240 mm
Rotation speed	max. 24.000 min ⁻¹

REF
BWA35

BWA 35i

Hand piece



- straight handpiece with collet 6 mm
- cylindrical grip
- clamping range: 1 - 6.35 mm

REF
BWA35i

Telescopic angle hand piece
BWA 45

Description	BWA 45
Collet chuck	2,35 - 3 mm
Length	max. 240 mm
Rotation speed	max. 24.000 min ⁻¹

REF
BWA45


Angle hand piece 90°
BWA 50

Description	BWA 50
Collet chuck	3 - 6 mm
Length	170 mm
Rotation speed	max. 24.000 min ⁻¹

REF
BWA50


Hand piece
BWA 55

- small angle handpiece 135° with telescope
- left turning only;
- collets 2.35 - and 3 mm
- hexagon grip
- clamping range: 1 - 3.17 mm

REF
BWA55


Hand piece
BWA 65

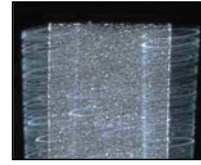
- straight handpiece with collet 3 mm
- hexagon grip
- clamping range: 1 - 6.35 mm

REF
BWA65



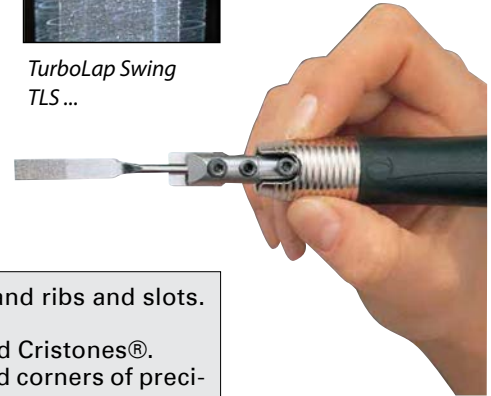
TLL ... - TLS ...

TurboLap Linear and Swing Profilers



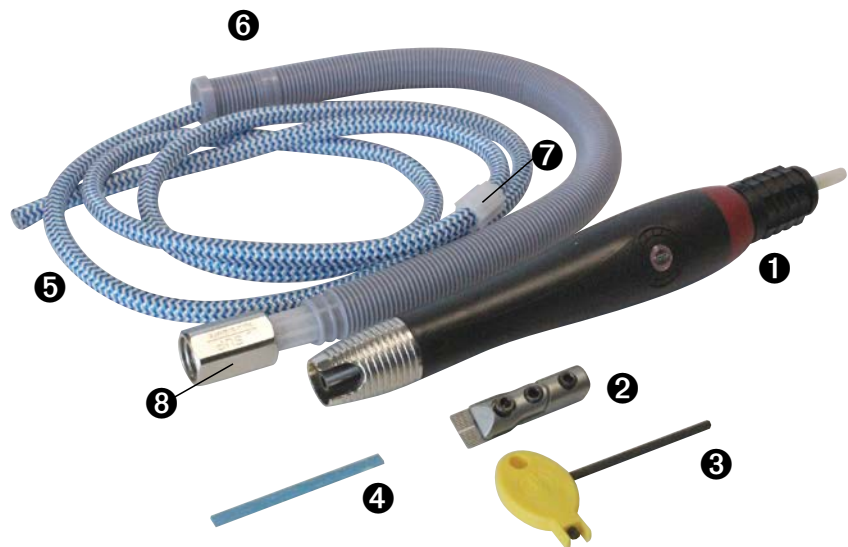
TurboLap Linear
TLL ...

TurboLap Swing
TLS ...



The perfect tools with ergonomic soft grip for polishing fine detail areas and ribs and slots. The TurboLap should be used at maximum 5 bar. These tools provide excellent performance with Ceramic Super Stones and Cristones®. The TurboLap Linear is particularly powerful for polishing narrow areas and corners of precision parts and components. Outstanding efficiency by the high-torque air turbo mechanism. Use of a filter and fog lubrication device is recommended for a long service life.

	TLL 03	TLL 07	TLL 12	TLS 03	TLS 07	TLS 12
R.P.M.	52000	28000	19000	56000	20000	14000
Work range	45000 ~ 50000	22000 ~ 25000	15000 ~ 18000	48000 ~ 53000	16000 ~ 18000	10000 ~ 12000
Noise level	72 dB (A)	64 dB (A)	63 dB (A)	73 dB (A)	62 dB (A)	59 dB (A)
Air consumption	125 nl/min	46 nl/min	45 nl/min	125 nl/min	46 nl/min	40 nl/min
Length	218 mm	218 mm	218 mm	218 mm	218 mm	218 mm
Weight	180 g	180 g	180 g	180 g	180 g	180 g



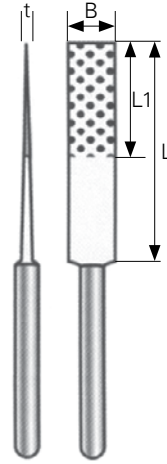
Included:

- 1 TurboLap **1**
- 1 super collet **2**
- 1 hexagonal wrench **3**
- 1 ceramic stone (1x4x50#800) **4**
- 1 air hose (1.5m) **5**
- 1 outer hose **6**
- 2 hose bands **7**
- 1 quick joint with filter **8**

TurboLap Diamond Files

DF ...

REF	T	B	L1	L	Grit
DF503200	0.3	6	15	56	200
DF503400	0.3	6	15	56	400
DF503600	0.3	6	15	56	600
DF506200	0.3	6	15	56	200
DF506400	0.3	6	15	56	400
DF506600	0.3	6	15	56	600
DF703200	0.3	3	15	72	200
DF703400	0.3	3	15	72	400
DF703600	0.3	3	15	72	600
DF706200	0.3	3	15	72	200
DF706400	0.3	3	15	72	400
DF706600	0.3	3	15	72	600
DFP03	Set 12 pcs				



TurboLap Linear Profiler

TLL 03



Features:

- Stroke 0.3 mm
- 52,000 RPM

REF
TLL03

TurboLap Linear Profiler

TLL 07



Features:

- Stroke 0.7 mm
- 28,000 RPM

REF
TLL07

TLL 12

TurboLap Linear Profiler



Features:

- Stroke 1.2 mm
- 19,000 RPM

REF

TLL12

TLS 03

TurboLap Swing Profiler



Features:

- Stroke 0.3 mm
- 0.1 mm left to right and 0.3 mm linear
- 53,000 strokes per minute

REF

TLS03

TLS 07

TurboLap Swing Profiler



BEST-SELLER

Features:

- Stroke 0.7 mm
- 0.9 mm left to right and 0.7 mm linear
- 18,000 strokes per minute

REF

TLS07

TurboLap Swing Profiler

TLS 12



Features:

- Stroke 1.2 mm
- 2.5 mm left to right and 1.2 mm linear
- 12,000 strokes per minute

REF

TLS12

Air Grinder

MSG-3BSN



Features:

- for precision grinding and polishing
- Straight pencil type with 3mm collet.
- 65,000 RPM

REF

MSG-3BSN

Air Grinder

MAG-121N



Features:

- for precision grinding and polishing
- 120° angle air grinder with 3mm collet.
- 52,500 RPM

REF

MAG-121N

MAG-122N

Air Grinder

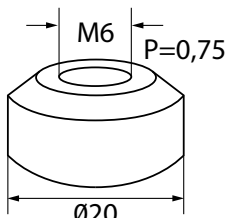


- Features:
- for surface grinding and polishing
 - 120° angle air grinder.
 - 35,000 RPM

REF
MAG-122N

MAG523...

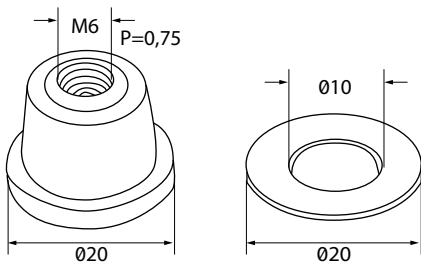
Cup Wheel (24 pcs)



REF	Grit
MAG5231	Ø20 #60
MAG5232	Ø20 #100
MAG5233	Ø20 #150

MAG526...

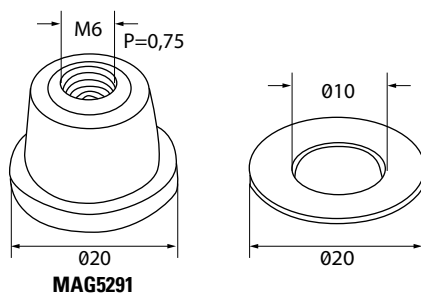
Soft Lap (40 pcs + 1 rubber disc holder)



REF	Grit/color
MAG5261	Ø20 #240
MAG5262	Ø20 #320
MAG5263	Ø20 #400
MAG5264	Ø20 #600
MAG5265	Ø20 #800
MAG5266	Ø20 #1000
MAG5267	Ø20 #1500

MAG524...

Pol-per System & Rubber Disc Holder

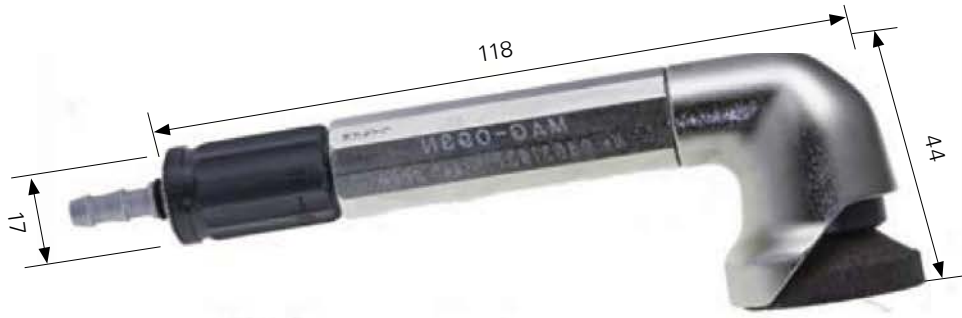


REF	Grit
MAG5241	Ø20 #60
MAG5242	Ø20 #100
MAG5243	Ø20 #150
MAG5244	Ø20 #240
MAG5245	Ø20 #400
MAG5246	Ø20 #600

REF
MAG5291

Air Grinder

MAG-093N



Features:

- for surface grinding and polishing
- 90° angle air grinder with 3mm collet.
- 23,500 RPM

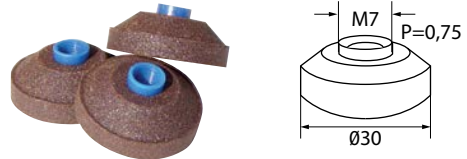
REF

MAG-093N

Cup Wheel (24 pcs)

MAG533...

REF	Grit
MAG5331	Ø30 #60
MAG5332	Ø30 #100
MAG5333	Ø30 #150



Pol-per System & Rubber Disc Holder

MAG534...

REF	Grit
MAG5341	Ø30 #60

130 pcs

REF	Grit
MAG5342	Ø30 #100

140 pcs

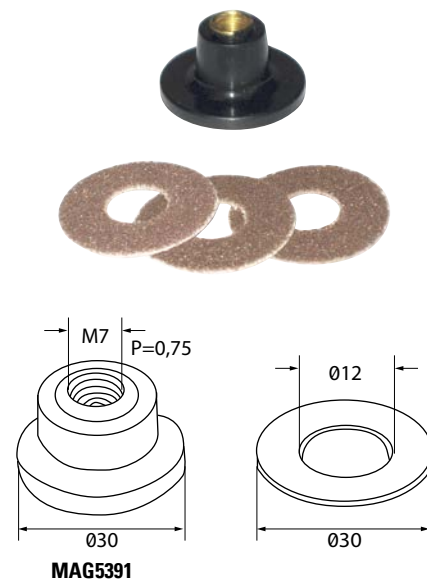
REF	Grit
MAG5343	Ø30 #150
MAG5344	Ø30 #240
MAG5345	Ø30 #400
MAG5346	Ø30 #600

150 pcs + 1 rubber disc holder

REF

MAG5391

10 pcs



MAG-123N

Air Grinder



Features:

- for surface grinding and polishing
- 120° angle air grinder.
- 23,500 RPM

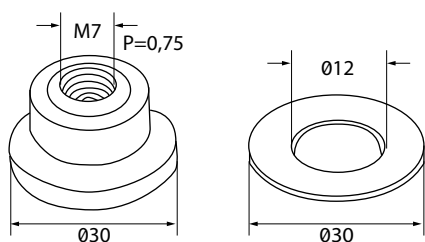
REF
MAG-123N

MAG536...

Soft Lap (25 pcs + 1 rubber disc holder)

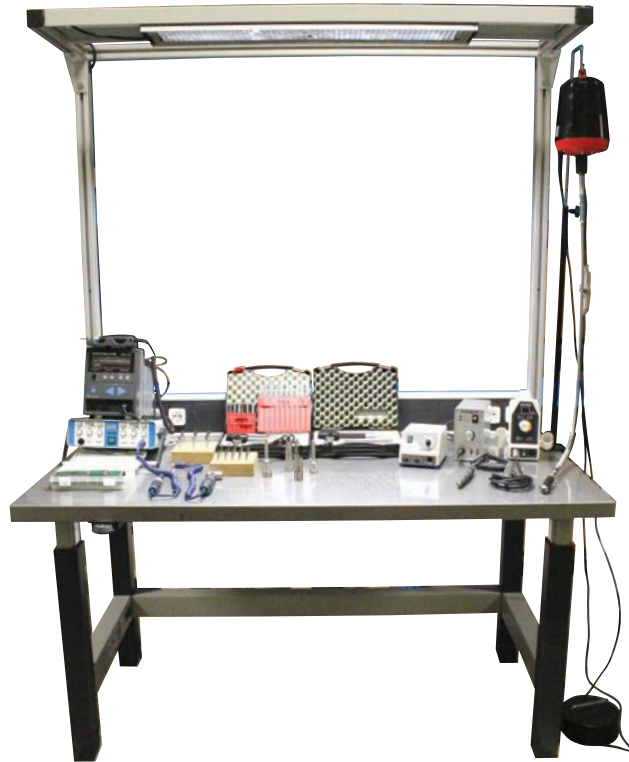


REF	Grit
MAG5361	Ø30 #240
MAG5362	Ø30 #320
MAG5363	Ø30 #400
MAG5364	Ø30 #600
MAG5365	Ø30 #800
MAG5366	Ø30 #1000
MAG5367	Ø30 #1500





Other Tools & Ergonomics



PWT300 - PWT 600

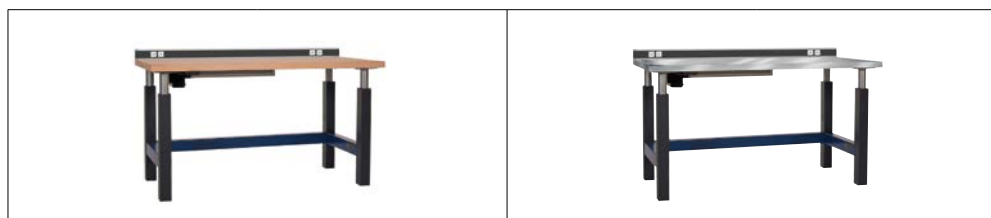
Ergonomical Work Bench



Features

- Continuous height adjustment from 700 to 1100 mm
- Operation by electric hydraulics
- Fixed or on wheels
- Variable workbench size and material
- Extensive accessories upon request
- Sturdy steel construction with environmentally friendly, solvent-free powder-coating
- Loading capacity: 300 kg - 600 kg max.
- Favorable cost-benefit ratio
- Electrical connection 230V / 50 Hz

REF
PWT300
PWT300S
PWT600
PWT600S



Description	PWT 300 (L)**	PWT 600 (L)**	PWT 300 S (L)**	PWT 600 S (L)**
Max load	max. 300 kg (centered)	max. 600 kg (centered)	max. 300 kg (centered)	max. 600 kg (centered)
Work surface material	wood veneered 40 mm multiplex		1 mm stainless steel sheeted 40 mm multiplex	
Input voltage	230 V / 50 Hz		230 V / 50 Hz	
Output power	360 W		360 W	
Power supply	power track with 4 earthed sockets 220 V		power track with 4 earthed sockets 220 V	
Noise	< 70 dB (A)		< 70 dB (A)	
Dimensions*	1500 x 750 mm (width x depth)	1600 x 750 mm (width x depth)	1500 x 750 mm (width x depth)	1600 x 750 mm (width x depth)
Height adjustment	from 700 mm to 1100 mm (hydraulic)		from 700 mm to 1100 mm (hydraulic)	
Weight	according to size		according to size	
Stroke rate	9 mm/s	15 mm/s	9 mm/s	15 mm/s

*Other dimensions available upon request

** With overhead lighting system

Rotating and reversing clamp

DW ...

- Features:
- Fixing method: A Screw on
 - Fixing method: B Clip on

REF	Size	Fixing method	Jaw width	Width of span	Depth of span
DW 1 /	A	46	50	35	
DW 1 /	B	46	50	35	
DW 2 /	A	80	100	52	
DW 2 /	B	80	100	52	

REF
DW1A
DW1B
DW2A
DW2B



DW 1/A

DW 1/B

Steel jaws

DWST ...

REF
DWST80

Plastic jaws

DWKU ...

REF
DWKU46
DWKU80

Aluminium jaws

DWAL ...

REF
DWAL46
DWAL80

LU 1187

Precision folding magnifiers



Features:

- biconvex, Ø 30 mm
- Magnification: 4 X + 6 X = 10 X

REF
LU1187

LUK 2781 ...

Head magnifier



Features:

- Side-closing screen
- Flexible front band
- Fast-closing elastic rear head band
- Height-adjustable screen which can be tilted upwards

Description	LUK 2781-4	LUK 2781-6
Magnification	1,25 x	1,4 x
Working distance	260 mm	200 mm
Weight	110 gr	110 gr

REF
LUK27814
LUK27816

LU 2771

Vario maxi stand magnifier with light



Features:

- Aspheric PXM®-Lightweight lens
- With cera-tec hard coating, Ø 220 mm, 3,0 dpt/ 1,75 x
- Illumination: 11 W PL-bulb /900 Lm/G 23/ color 21
- Max. load distance 900 mm
- Turning range of the magnifier head: vertical ±90°, radial ± 90°
- Cable length 3 m

Includes:

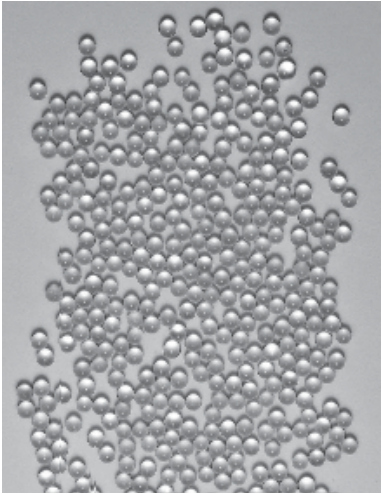
- Bulb LU 2771 1
- Table clamp LU 2771 2 for tabletop thickness from 18/74 mm
- Dustprotector

REF	Description
LU2771	Vario maxi stand magnifier
LU27711	Spare bulb
LU27712	Screw mounting

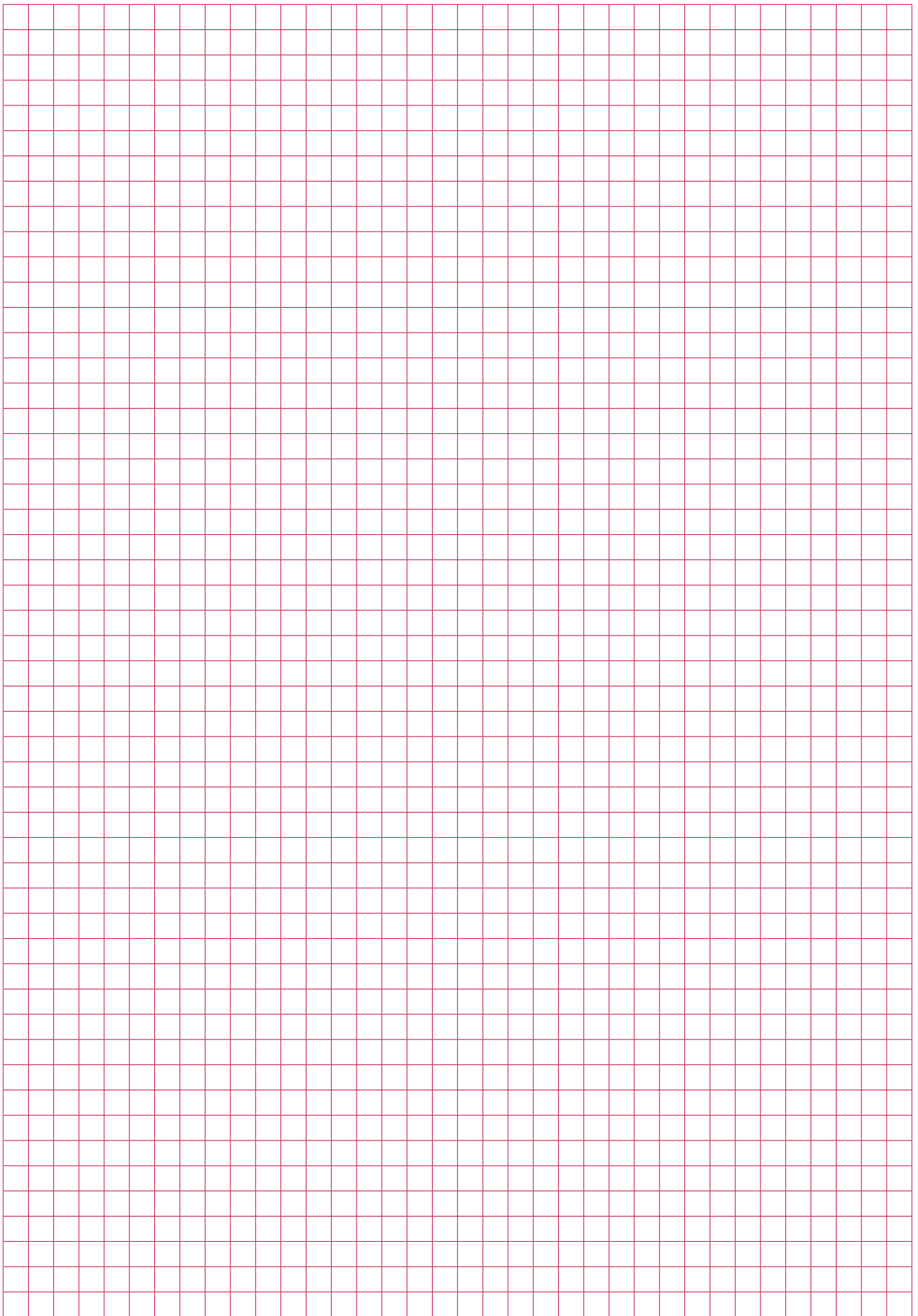
Glass beads

STP ...

- Features:
- Generally applied for simple cleaning operations or polished surfaces of silk-dull finish.
 - Compressing of work piece surfaces, STP 200 is also suitable for deburring operations.
 - Can be used for all materials.



REF	Grain	kg
STP050	0 - 50 µm	25
STP070	40 - 70 µm	25
STP110	70 - 110 µm	25
STP150	90 - 150 µm	25
STP200	100 - 200 µm	25





Diprofil Files & Tools





The Di-Pro™ represents a new standard of high-end polishing/filing machines with an increased focus on the operator's well-being. The low levels of vibration greatly reduce the risk of Hand Arm Vibration Syndrome (HAVS) – without compromising performance.

The dangers of Hand-Arm Vibrations (HAV) have in recent years been focused as one of the main occupational hazards all over the vibrating tools-using industry. With this in mind Diprofil has developed a high quality low-vibrating machine with reduced vibration levels and the same renowned quality standard as the Classic Diprofil Machine.

To achieve as low vibration levels as possible, the Di-Pro™ has been optimized for tools within a certain weight-span. This is based on Diprofil's long experience in tools normally used with this type of machine and

keeping within this weight-span gives optimal efficiency in relation to the vibration levels.

For the best efficiency to vibration-ratio, the following tools are recommended:

- Diprofil diamond files type DLA, DLE, DLF, DLM and DBE
- Selected Diprofil lapping tools
- Selected Diprofil polishing tools
- Di-Pro stoning- & polishing tools

The Di-Pro™ is available with the following drive sources:

- Flexible shaft connection (slip-joint / ball-joint)
- Integrated micro-motor
- Integrated air-motor

FXB - FXK

Flexible-shaft driven machine with slip-joint connection



Drive: The FXB and FXK models should be driven by an electrical hanging-motor with speed control and a flexible-shaft with slip-joint connection (European standard) e.g. Diprofil type DSE-47. Corresponding motors of other brands may also be used.

Speed (maximum): 7.000 rpm
Speed (recommended): 5.000 – 7.000 rpm (depending on the weight of the used tool).

Stroke length: 0 – 6 mm (recommended 0,5 – 4 mm
 NOTE! At stroke lengths exceeding 4 mm a maximum speed of 5.000 rpm is recommended.

Weight: FXB: 740 g FXK: 780 g
Noise level: not exceeding 75 dB A at 7.000 rpm
Vibration levels: Not exceeding 2,5 m/s² when the machine is operated according to the operation guide.

For more information about vibration levels when using certain tools at different speeds and stroke lengths, please see the operation guide. Frequency weighed hand/arm vibration principally in accordance with ISO 28927-8.

REF	Tool holder
FXB	Ø 3,5 mm
FXK	Ø 6,4 mm

European standard

Air driven machine
FXD - FXL

Drive: The FXD and FXL models have a built in air-motor and should be driven by compressed and oil mist lubricated air. PLEASE NOTE! The built-in air- motor may be damaged, if operated with un- lubricated air. Connection: The Diprofil quick-coupling HSL-M and fog lubrication unit MFB should be used for connection to your compressed air system. PLEASE NOTE! Protect the air inlet from dust and dirt, when not in operation.

Speed (maximum): 7.000 rpm
Speed (recommended): 5.000 – 7.000 rpm (depending on the weight of the used tool).

Stroke length: 0 – 6 mm (recommended 0,5 – 4 mm)
 NOTE! At stroke lengths exceeding 4 mm a maximum speed of 5.000 rpm is recommended.

Weight: FXD: 880 g FXL: 920 g

Oil consumption: minimum 30 mm³/min. at maximum speed (about 2 drops/min.)

Air pressure: 4 bar (57psi)

Air consumption: Approx. 60 l/min at 7.000 rpm

Noise level: not exceeding 75 dB A at 7.000 rpm

Vibration levels: Not exceeding 2,5 m/s² when the machine is operated according to the operation guide.



REF	Tool holder
FXD	Ø 3,5 mm
FXL	Ø 6,4 mm

For more information about vibration levels when using certain tools at different speeds and stroke lengths, please see the operation guide. Frequency weighed hand/arm vibration principally in accordance with ISO 28927-8.

Machine with built-in micro-motor
FXP - FXM

Drive: The FXP and FXM models have a built-in micro-motor, which is connected to, and controlled by, the DIPROFIL DPU-3, TPU-20 or corresponding power units.

Speed (maximum): 7.000 rpm
Speed (recommended): 5.000 – 7.000 rpm (depending on the weight of the used tool).

Stroke length: 0 – 6 mm (recommended 0,5 – 4 mm)
 NOTE! At stroke lengths exceeding 4 mm a maximum speed of 5.000 rpm is recommended.

Weight: FXP: 960 g FXM: 980 g

Noise level: not exceeding 75 dB A at 7.000 rpm

Vibration levels: Not exceeding 2,5 m/s² when the machine is operated according to the operation guide.



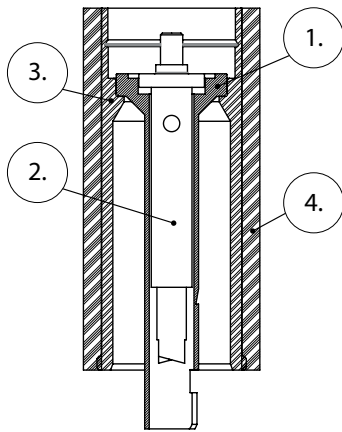
REF	Tool holder
FXP	Ø 3,5 mm
FXM	Ø 6,4 mm

Diprofil connector

For more information about vibration levels when using certain tools at different speeds and stroke lengths, please see the operation guide. Frequency weighed hand/arm vibration principally in accordance with ISO 28927-8.

FXB - FXK

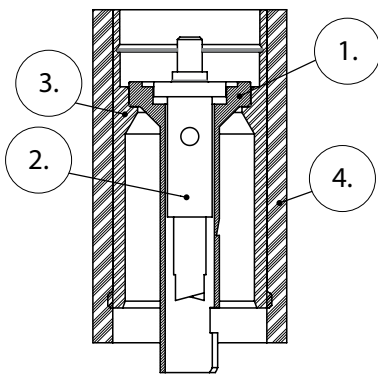
Spare parts



Slip-joint Connection Diprofil Di-Pro Machines: No. 400 or higher.
Item No.: FXB and FXK.

Pos.	REF	Description.
1.	FXA-21.	Connecting sleeve.
2.	FXA-22.	Spindle drive mounting.
3.	FXA-23.	Handle sleeve.
4.	FXA-24.	Handle sleeve cover.

(All Parts 20mm longer, than on older machines)



Slip-joint Connection Diprofil Di-Pro Machines: 1 Older, No.001 to 399. Item No.: FXB and FXK.

Pos.	REF	Description.
1.	FMK-2.	Connecting sleeve.
2.	FMK-3.	Spindle drive mounting.
3.	FMK-1.	Handle sleeve.
4.	FXA-15.	Handle sleeve cover.

Info

Original reciprocating polishing/filing machine



The Original Diprofil Reciprocating Filing Machines are designed for efficient polishing and finishing operations.

The Diprofil Machines, with a wide range of tools and accessories, have been developed by careful studies of fine mechanical handwork and finishing operations. They facilitate filing, lapping, honing, polishing etc. and have become an important concept in the daily work of moldmaking, die-sinking, toolmaking and other fine mechanical precision work.

All Diprofil Machines are delivered in a handy tool-box with the necessary accessories.

Air drive

FPD/R - FPL/R

The air-driven Original Diprofil Filing Machine, has a specially developed 18-cylinder radial piston-type air motor with integrated speed regulator.

The machine is available with a Ø 3,5 mm tool holder (FPD/R) or a Ø 6,4 mm tool holder (FPL/R).

The airmotors are manufactured with a very high level of accuracy and require lubricated and filtered air (5µ) to obtain a long and trouble-free lifetime.

For better comfort, each model is fitted with an ergonomic rubber sleeve.

Technical data

Stroke length: 0-6 mm (recommended 0,5-3mm)
 Speed: max 8.000 rpm (recommended: 5.000 - 7.000 rpm)
 Weight: 750 - 780 g
 Oil consumption: minimum 30 mm³/min. at maximum speed (about 2 drops/min.)
 Air pressure: FPD/R: 4 bar (57psi) FPL/R: 4 bar (57psi)
 Air consumption: FPD/R: Approx. 65 l/min at 8.000 rpm
 FPL/R: Approx. 60 l/min at 7.000 rpm
 Noise: < 70 dB(A) at 7.000 rpm
 Vibration: with standard tool holder (Ø 3,5 mm) 3-10 m/s²
 with heavy duty tool holder (Ø 6,4 mm) 4-12 m/s².

Frequency weighed hand/arm vibration, principally in accordance with ISO 28927-8. For further details, see diagram and other information in the corresponding Operation Guide.



REF	Old DME REF	Tool holder
FPD/R	HDL 50	Ø 3,5 mm
FPL/R	HDL 100	Ø 6,4 mm

Flexible-Shaft Drive - Slip Joint Connection

FPB/R - FPK/R

The Original Diprofil Filing Machine for flexible-shaftdrive is available for connection to Slip Joint.

The machines can be supplied with two different tool holders, standard Ø 3,5 mm (FPB/R) or heavy duty Ø 6,4 mm (FPK/R). For better comfort, each model is fitted with an ergonomic rubber sleeve.

Technical data

Stroke length: 0-6 mm (recommended 0,5-3mm)
 Speed: max 8.000 rpm (recommended: 5.000 - 7.000 rpm)
 Weight: 585 - 615 g
 Noise: < 70 dB(A) at 7.000 rpm
 Vibration: with standard tool holder (Ø 3,5 mm) 3-10 m/s²
 with heavy duty tool holder (Ø 6,4 mm) 4-12 m/s².

Frequency weighed hand/arm vibration, principally in accordance with ISO 28927-8. For further details, see diagram and other information in the corresponding Operation Guide.



REF	Old DME REF	Tool holder
FPB/R	HD 50	Ø 3,5 mm
FPK/R	HD 100	Ø 6,4 mm

FPP/R - FPM/R

Micro Motor Drive - Integrated Micro Motor



The Original Diprofil Filing Machine for Micro motor drive can be supplied with two different tool-holders, standard Ø 3,5 mm (FPP/R) or heavy duty Ø 6,4 mm (FPM/R).

These have a built-in micro-motor, which is connected to, and controlled by, the DIPROFIL DPU-3, TPU-20 or corresponding DME/EOC power units (e.g. Grande,...). For better comfort, each model is fitted with an ergonomic rubber sleeve. The machine is also available with Eneska 3-1 connector (FPM/ERJ, FPP/ERJ).

Technical data

Stroke length: 0-6 mm (recommended 0,5-3mm)

Speed: max 8.000 rpm (7.000 rpm at 32V)
recommended: 5.000 - 7.000 rpm

Weight: 800 - 830 g

Noise: < 70 dB(A) at 7.000 rpm

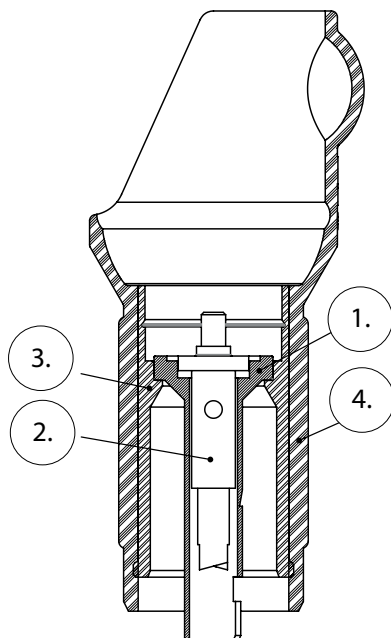
Vibration: with standard tool holder (Ø 3,5 mm) 3-10 m/s²
with heavy duty tool holder (Ø 6,4 mm) 4-12 m/s².

Frequency weighed hand/arm vibration, principally in accordance with ISO 28927-8. For further details, see diagram and other information in the corresponding Operation Guide.

REF	Tool holder
FPP/R	Ø 3,5 mm
FPM/R	Ø 6,4 mm

FPB/R - FPK/R

Spare Parts



Slip-joint Connection.

Diprofil Classic Machines: Item No.: FPB and FPK.

Pos.	REF	Description.
1.	FMK-2.	Connecting sleeve.
2.	FMK-3.	Spindle drive mounting.
3.	FMK-1.	Handle sleeve.
4.	FMM-9.	Rubber cover for Classic machines.

Diprofil Protective Finger Sleeves

Info



The old (wrong) way...



The new (right) way!

To further emphasize our focus on the importance of reducing potentially harmful vibrations we are now introducing the new Diprofil Protective Finger Sleeve.

It's a well known fact that it's actually more common for operators to sustain vibration related injuries in the hand guiding the tool rather than in the hand holding the actual machine. With this in mind we have developed the Diprofil protective finger sleeve. The finger sleeve will improve guidance of the tool as there is no longer any need for putting your fingers on moving tools and/or machine parts.

The finger sleeve is compatible with both the Classic and the low-vibrating Di-Pro polishing-/filing machines and comes with an extension rod for longer tools in two different versions depending on the size of the original tool-holder (Ø 3,5 or 6,4 mm).

For more information on each specific item please see the technical information above.

The two different models available for either 3,5 or 6,4 mm tool-holders are the following:

- PFS-3,5 Compatible with both the Classic and the low-vibrating Di-Pro polishing-/filing machines fitted with 3,5 mm tool-holders.
- PFS-6,4 Compatible with both the Classic and the low-vibrating Di-Pro polishing-/filing machines fitted with 6,4 mm tool-holders.

Both versions comes in a handy box with the necessary tools and an instruction on how to attach it to your machine.

Protective Finger Sleeve for the Ø 3,5 mm tool-holder

PFS-3,5

Outer Ø: 23 mm
 Length (without extension rod): 34 mm
 Length (including extension rod): 91 mm
 Maximum tool shank Ø: 3,5 mm
 Weight (without extension rod): 33 g
 Weight (including extension rod): 50 g

REF

PFS3-5



Protective Finger Sleeve for the Ø 6,4 mm tool-holder

PFS-6,4

Outer Ø: 26 mm
 Length (without extension rod): 48 mm
 Length (including extension rod): 105 mm
 Maximum tool shank Ø: 6,4 mm
 Weight (without extension rod): 49 g
 Weight (including extension rod): 66 g

REF

PFS6-4



Info

Diprofil mini polishing/filing machines



A complete system for working on difficult surfaces. Low weight and a thorough ergonomic design results in a more effective finishing and polishing work, especially in narrow and confined spaces.

The Diprofil Mini Filing Machine is available with 3 different stroke lengths. For lowest possible vibration levels we recommend using light weight tools and tool-holders.

Using the Diprofil Mini Filing Machine gives you total control even when working in the most narrow spaces on a delicate workpiece.

All Dipromini machines are delivered in a handy tool-box with the necessary accessories.

FMR/S...

Flexible-Shaft Drive - Slip Joint Connection



The Diprofil Mini Polishing/Filing machine for flexible-shaft drive is available for connection to Slip Joint. There are three basic models with 0,5 mm (FMR/S5), 1,0 mm (FMR/S10) or 1,5 mm (FMR/S15) stroke length.

Technical data

- Tool holder: max Ø 3,6 mm
- Stroke length: 0,5, 1,0 or 1,5 mm
- Speed: max 12.000 rpm recommended: 5.000 - 11.000 rpm
- Dimension: Ø 24 mm
- Weight: approx. 120 g
- Noise: < 70 dB(A) at 9.000 rpm
- Vibrations: stroke 0,5 mm: < 2,5 m/s²,
stroke 1,0 mm: 1,5 - 3 m/s²,
stroke 1,5 mm: 1,5 - 4 m/s²

Frequency weighed hand/arm vibration, principally in accordance with ISO 28927-8.

For further details, see diagram and other information in the corresponding Operation Guide.

REF	Old DME REF	Stroke length
FMR/S5	HDW 1	0,5 mm
FMR/S10		1,0 mm
FMR/S15	HDW 2	1,5 mm

Micro Motor Connection - Gesswein, Argofile & Uhandy

FMR/G...

The Dipromini Filing Machine for Gesswein, Argofile and Uhandy connection can be supplied with three different stroke lengths: 0,5 mm (FMR/G5), 1,0 mm (FMR/G10) or 1,5 mm (FMR/G15).

Technical data

Tool holder: max Ø 3,6 mm
 Stroke length: 0,5, 1,0 or 1,5 mm
 Speed: max 12.000 rpm recommended: 5.000 - 11.000 rpm
 Dimension: Ø 24 mm
 Weight: approx. 120 g
 Noise: < 70 dB(A) at 9.000 rpm
 Vibrations: stroke 0,5 mm: <2,5 m/s²,
 stroke 1,0 mm: 1,5 - 3 m/s²,
 stroke 1,5 mm: 1,5 - 4 m/s²

Frequency weighed hand/arm vibration, principally in accordance with ISO 28927-8.

For further details, see diagram and other information in the corresponding Operation Guide.



REF	Old DME REF	Stroke length
FMR/G5	JA 60	0,5 mm
FMR/G10		1,0 mm
FMR/G15	JA 65	1,5 mm

Flexible-Shaft Drive - Slip Joint Connection

FMR/D...

Dipromini polishing/filing Machine with connection for Diprofil micro motor type HPM-B1 which should be connected to, and controlled by, the DIPROFIL DPU-3, TPU-20 or corresponding power units. Available with three different stroke lengths: 0,5 mm (FMR/D5), 1,0 mm (FMR/D10) or 1,5 mm (FMR/D15).

Technical data

Tool holder: max Ø 3,6 mm
 Stroke length: 0,5, 1,0 or 1,5 mm
 Speed: max 12.000 rpm recommended: 5.000 - 11.000 rpm
 Dimension: Ø 24 mm
 Weight: approx. 120 g
 Noise: < 70 dB(A) at 9.000 rpm
 Vibrations: stroke 0,5 mm: <2,5 m/s²,
 stroke 1,0 mm: 1,5 - 3 m/s²,
 stroke 1,5 mm: 1,5 - 4 m/s²

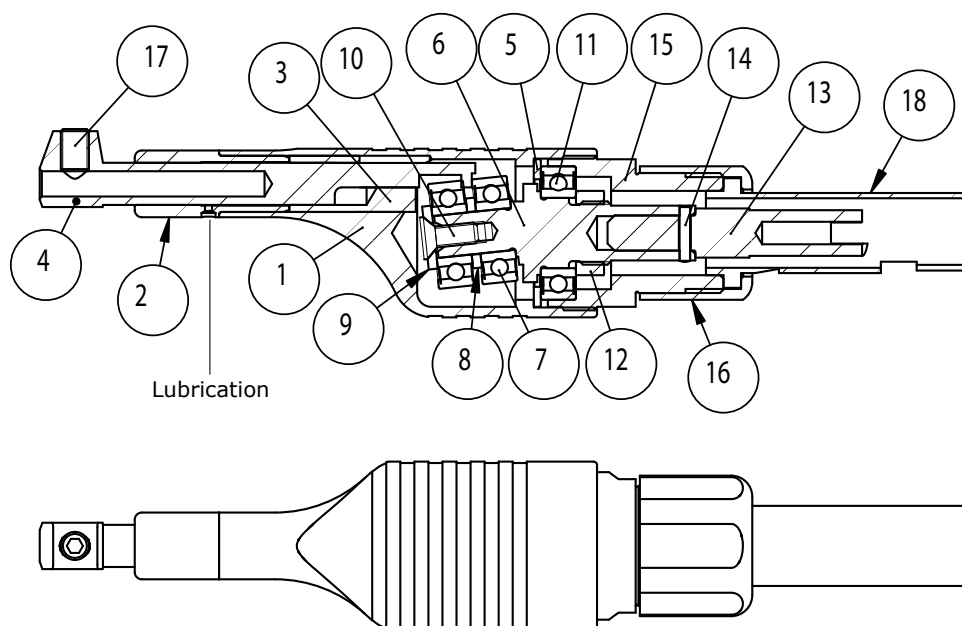
Frequency weighed hand/arm vibration, principally in accordance with ISO 28927-8. For further details, see diagram and other information in the corresponding Operation Guide.



REF	Stroke length
FMR/D5	0,5 mm
FMR/D10	1,0 mm
FMR/D15	1,5 mm

FMR/S...

Spare parts



Pos.	Pcs.	REF	Description
1	1	FMR-1	Housing
2	1	FMR-73	Guide steering (front-piece)
3	1	FMR-74	Guide steering (back-piece) FMR-2/P
4	1	FMR-3	Tool-holder
5	1	FMR-9	Washer
6	1	FMR-45/46/50*	Main spindle
7	2	44024	Ball bearing
8	1	FMR-8	Spacer
9	1	FMR-7	Bearing washer
10	1	42039	Screw
11	1	44022	Ball bearing
12	1	FMR-54	Nut for main spindle
13	1	FMR-12	Spindle drive mounting
14	1	43016	Pin
15	1	FMR-5	Back piece
16	1	FMR-14	Spindel end cover
17	1	42038	Locking Screw
18	1	FMR-13	Connetcing Sleeve

*FMR-45 for Mini polishing/filing machine FMR/S5 (stroke length 0,5 mm).
 *FMR-50 for Mini polishing/filing machine FMR/S10 (stroke length 1,0 mm).
 *FMR-46 for Mini polishing/filing machine FMR/S15 (stroke length 1,5 mm).

Spare Parts

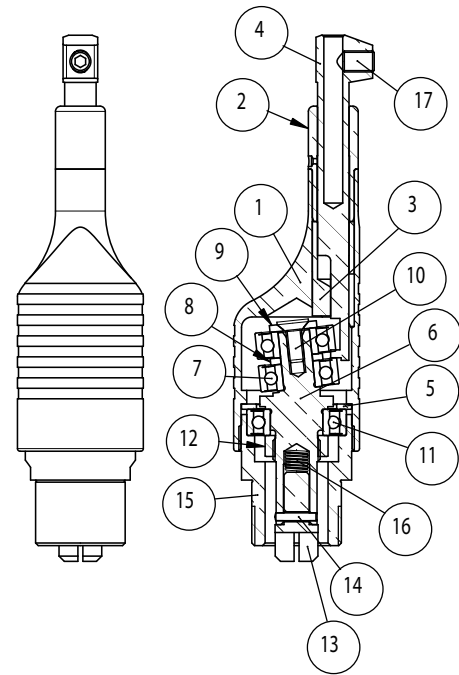
FMR/D...

Pos.	Pcs.	REF	Description.
1	1	FMR-1	Housing
2	1	FMR-73**	Guide steering (front-piece)
3	1	FMR-74**	Guide steering (back-piece)
4	1	FMR-3	Tool-holder
5	1	FMR-9	Washer
6	1	FMR-45/46/50*	Main spindle
7	2	44024	Ball bearing
8	1	FMR-8	Spacer
9	1	FMR-7	Bearing washer
10	1	42039	Screw
11	1	44022	Ball bearing
12	1	FMR-54	Nut for main spindle
13	1	FMR-71	Spindle drive mounting
14	1	43016	Pin
15	1	FMR-5	Back piece
16	1	41009	Spring
17	1	42038	Locking Screw

*FMR-45 for Mini polishing/filing machine FMR/S5 (stroke length 0,5 mm).

*FMR-50 for Mini polishing/filing machine FMR/S10 (stroke length 1,0 mm).

*FMR-46 for Mini polishing/filing machine FMR/S15 (stroke length 1,5 mm).



Spare parts

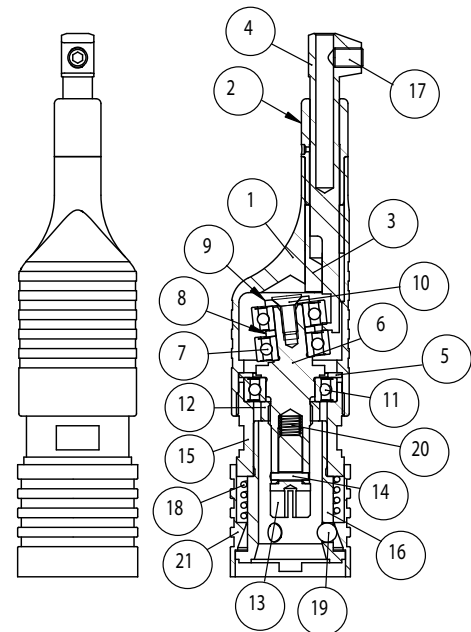
FMR/G...

Pos.	Pcs.	REF	Description.
1	1	FMR-1	Housing
2	1	FMR-73**	Guide steering (front-piece)
3	1	FMR-74**	Guide steering (back-piece)
4	1	FMR-3	Tool-holder
5	1	FMR-9	Washer
6	1	FMR-45/46/50*	Main spindle
7	2	44024	Ball bearing
8	1	FMR-8	Spacer
9	1	FMR-7	Bearing washer
10	1	42039	Screw
11	1	44022	Ball bearing
12	1	FMR-54	Nut for main spindle
13	1	FMR-18	Spindle drive mounting
14	1	43016	Pin
15	1	FMR-60	Back piece
16	1	FMR-62	Inner Sleeve
17	1	42038	Locking Screw
18	1	FMR-63	Spring
19	3	44025	Steel Ball
20	1	41009	Spring
21	1	FMR-61	Outer Sleeve

*FMR-45 for Mini polishing/filing machine FMR/S5 (stroke length 0,5 mm).

*FMR-50 for Mini polishing/filing machine FMR/S10 (stroke length 1,0 mm).

*FMR-46 for Mini polishing/filing machine FMR/S15 (stroke length 1,5 mm).



Info

Transverse mini polishing/filing machine



This machine has a transverse movement for working on difficult surfaces, and is especially suitable on narrow shoulders. Variable stroke between 0-4 mm, that is easy to change by use of a hexagon key. The small and handy dimension improves control and effectiveness for polishing and finishing work. For the lowest possible vibration levels we recommend using light weight tools and tool-holders such as the THFS-1 and THPS-3.

All Diprofil Machines are delivered in a handy tool-box with the necessary accessories.

FMV/S

Flexible-shaft Drive - Slip Joint Connection



The Diprofil Transverse Mini Polishing/Filing machine for flexible-shaft drive is available for connection to Slip-joint (FMV/S).

Technical data

Tool holder: max Ø 3,6 mm
 Stroke length: Variable stroke 0-4 mm (measured 60 mm from the machine housing)
 Speed: max 12.000 rpm (at max 2 mm stroke length) recommended 5.000-11.000 rpm
 Dimension: Ø 24 mm
 Weight: 235 g
 Noise: < 78 dB(A) at 12.000 rpm
 Vibrations: 1,5 - 3,5 m/s²

Frequency weighed hand/arm vibration, principally in accordance with ISO 28927-8.

For further details, see diagram and other information in the corresponding Operation Guide.

REF

FMV/S

FMV/G

Micro Motor Connection - Gesswein, Argofile & Uhandy



The Diprofil Transverse Mini Polishing/Filing machine is available for Gesswein, Argofile and Uhandy connection (FMV/G).

Technical data

Tool holder: max Ø 3,6 mm
 Stroke length: variable stroke 0-4 mm (measured 60 mm from the machine housing)
 Speed: max 12.000 rpm (at max 2 mm stroke length) recommended 5.000-11.000 rpm
 Dimension: Ø 24 mm
 Weight: 210 g
 Noise: < 78 dB(A) at 12.000 rpm
 Vibrations: 1,5 - 3,5 m/s²

Frequency weighed hand/arm vibration, principally in accordance with ISO 28927-8. For further details, see diagram and other information in the corresponding Operation Guide.

REF

FMV/G

Micro Motor Connection - Diprofil Motor type HPM-B1

FMV/D

Dipromini Transverse polishing/filing machine with connection for Diprofil micro motor type HPM-B1 (FMV/D) which should be connected to, and controlled by, the DIPROFIL DPU-3, TPU-20 or corresponding power units.

Technical data

Tool holder: max \varnothing 3,6 mm
 Stroke length: variable stroke 0-4 mm (measured 60 mm from the machine housing)
 Speed: max 12.000 rpm (at max 2 mm stroke length) recommended 5.000-11.000 rpm
 Dimension: \varnothing 24 mm
 Weight: 195 g
 Noise: < 78 dB(A) at 12.000 rpm
 Vibrations: 1,5 - 3,5 m/s²

Frequency weighed hand/arm vibration, principally in accordance with ISO 28927-8. For further details, see diagram and other information in the corresponding Operation Guide.

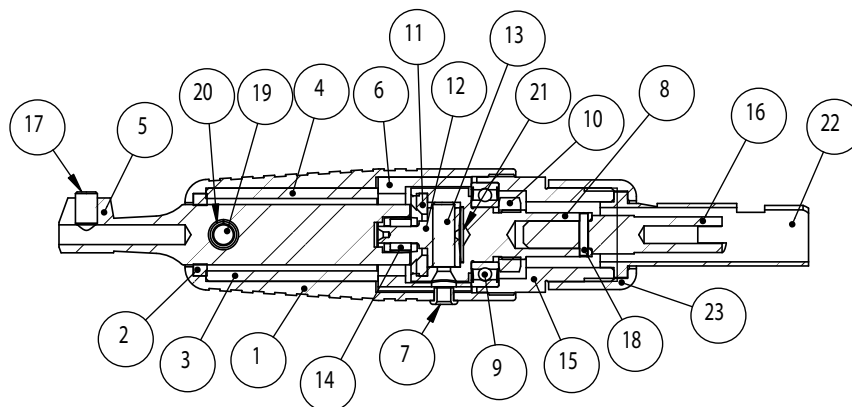


REF

FMV/D

Flexible-shaft Drive - Slip Joint Connection

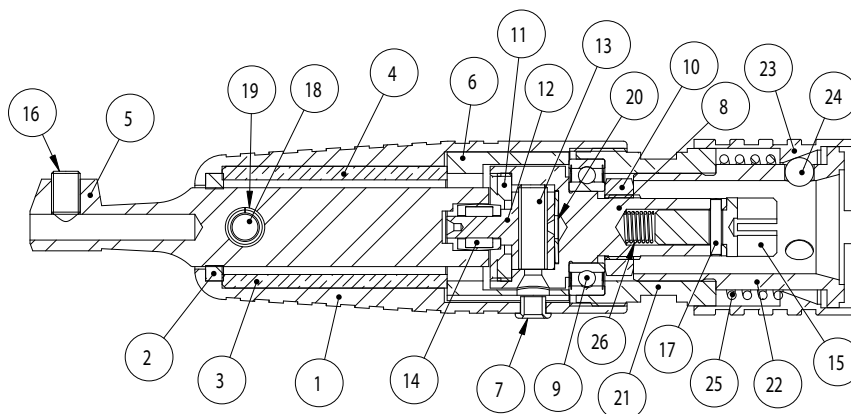
FMV/S



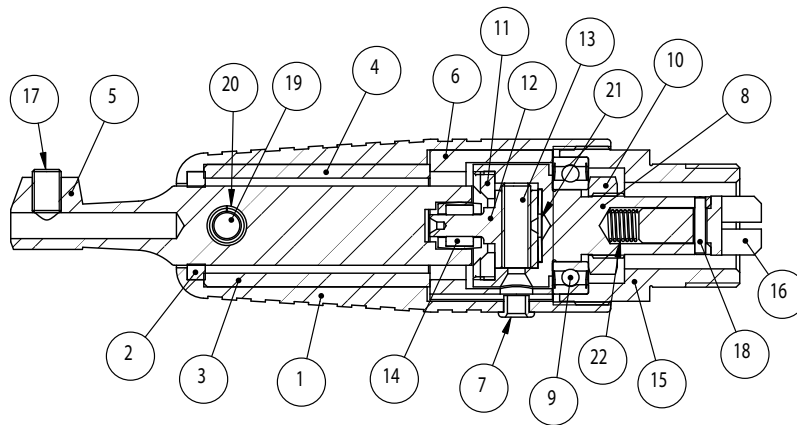
Pos.	Pcs.	REF	Description
1	1	FMV-1	Housing
2	1	FMT-8	Lubricating Felt
3	1	FMT-5	Upper guide steering
4	1	FMT-6	Lower guide steering
5	1	FMT-1	Tool Holder
6	1	FMV-5	Spacer
7	1	FMV-7	Bushing
8	1	FMV-2	Main spindle
9	1	44022	Ball bearing
10	1	FMR-5	4 Nut for main spindle
11	1	FMV-4	Eye nut
12	1	FMV-3	Crank pin
13	1	FMV-6	Adjusting screw
14	1	FMT-7	Crank bearing
15	1	FMR-5	Back piece
16	1	FMR-1	2 Spindle drive mounting
17	1	42038	Locking screw
18	1	43016	Pin
19	1	43021	Pin
20	1	44028	Bushing
21	1	41013	Cup spring
22	1	FMR-13	Connecting sleeve
23	1	FMR-14	Spindle end cover

FMV/G

Micro Motor Connection - Gesswein, Argofile & Uhandy



Pos.	Pcs.	REF	Description
1	1	FMV-1	Housing
2	1	FMT-8	Lubricating Felt
3	1	FMT-5	Upper guide steering
4	1	FMT-6	Lower guide steering
5	1	FMT-1	Tool Holder
6	1	FMV-5	Spacer
7	1	FMV-7	Bushing
8	1	FMV-2	Main spindle
9	1	44022	Ball bearing
10	1	FMR-54	Nut for main spindle
11	1	FMV-4	Eye nut
12	1	FMV-3	Crank pin
13	1	FMV-6	Adjusting screw
14	1	FMT-7	Crank bearing
15	1	FMR-18	Spindle drive mounting
16	1	42038	Locking screw
17	1	43016	Pin
18	1	43021	Pin
19	1	44028	Bushing
20	1	41013	Cup spring
21	1	FMR-60	Back piece
22	1	FMR-62	Inner sleeve
23	1	FMR-61	Outer sleeve
24	3	44025	Steel ball
25	1	FMR-63	Spring
26	1	41009	Spring



Pos.	Pcs.	REF	Description
1	1	FMV-1	Housing
2	1	FMT-8	Lubricating Felt
3	1	FMT-5	Upper guide steering
4	1	FMT-6	Lower guide steering
5	1	FMT-1	Tool Holder
6	1	FMV-5	Spacer
7	1	FMV-7	Bushing
8	1	FMV-2	Main spindle
9	1	44022	Ball bearing
10	1	FMR-54	Nut for main spindle
11	1	FMV-4	Eye nut
12	1	FMV-3	Crank pin
13	1	FMV-6	Adjusting screw
14	1	FMT-7	Crank bearing
15	1	FMR-5	Back piece
16	1	FMR-38	Spindle drive mounting
17	1	42038	Locking screw
18	1	43016	Pin
19	1	43021	Pin
20	1	44028	Bushing
21	1	41013	Cup spring
22	1	41009	Spring

Info

For efficient polishing and finishing operations



Rotary handpieces for efficient grinding, polishing and finishing operations with tools such as diamond and CBN pins, felt bobs and wood bobs. All rotary hand pieces comes with the necessary tools and accessories.

C-HPM-BL1

Brushless Rotary Hand-piece



Micro-motor driven rotary hand-piece with brushless motor for use together with twin power unit TPU-20. Features a quick change design for both the collet and the tool and is supplied with 3,0 mm collet. Optional 2,35 mm collet available.

Technical data

Speed: max. 40.000 rpm
 Consumed power: max. 230 W
 Torque: 8,5N cm
 Weight: 350 g
 Dimensions: L159 x Ø27 mm
 Noise: < 70 db(A) at 40.000 rpm
 Vibrations: < 2,5 m/s²

REF

CHPMBL1

C-HPM-BL2

Brushless Rotary Hand-piece



Micro-motor driven high speed rotary hand-piece with brushless motor for use together with twin power unit TPU-20. Features a quick change design for both the collet and the tool and is supplied with 3,0 mm collet. Optional 2,35 mm collet available.

Technical data

Speed: max. 50.000 rpm
 Consumed power: max. 230 W
 Torque: 7,6N cm
 Weight: 350 g
 Dimensions: L159 x Ø27 mm
 Noise: < 70 db(A) at 50.000 rpm
 Vibrations: < 2,5 m/s²

REF

CHPMBL2

Rotary Hand-piece

C-HPM-B1

Micro-motor driven high speed rotary hand-piece with carbon brush motor for use together with power unit DPU-3 or twin power unit TPU-20. Features a quick change design for both the collet and the tool and is supplied with 3,0 mm collet. Optional 2,35 mm collet available.

Technical data

Speed: max. 38.000 rpm
 Consumed power: 100 W
 Torque: 4,0N cm
 Weight: 285 g
 Dimensions: L159 x Ø29,5 mm
 Noise: < 70 db(A) at 38.000 rpm
 Vibrations: < 2,5 m/s²



REF

CHPMB1

Diprofil Power Unit

DPU-3

This compact and ergonomic Power Unit is designed for use together with dedicated rotary hand-pieces and micro-motor driven reciprocating Diprofil polishing/filing machines with carbon brush motors. It has high torque and electrical feedback circuitry. Other features include continuously variable speed, forward / reverse switch and automatic overload protection. Supplied with foot control type DPU-3-FC for optional speed adjustment.

Technical data

Input: AC 110/220 V at 50/60 Hz
 Output: DC 0 – 32 V, 1,2 A
 Power: max. 100 W
 Weight Power unit: 1,7 kg
 Dimensions Power unit: W115 x D147 x H96 mm
 Weight Foot control: 585 g



REF

DPU3

Micro-motor

HPM-B1

DC micro-motor adapted for Diprofil mini polishing/filing machines type FMR/D, FMV/D and rotary hand-piece type C-HPM-B1. For use together with power unit DPU-3 or twin power unit TPU-20.

Technical data

Speed: max. 38.000 rpm
 Consumed power: 100 W
 Torque: 4,0N cm
 Weight: 190 g
 Dimensions: L100 x Ø29,5 mm
 Noise: < 70 db(A) at 38.000 rpm
 Vibrations: < 2,5 m/s²



REF

HPMB1

TPU-20



Diprofil Twin Power Unit

Twin power unit featuring dual control system for both brushless and carbon brush micro-motors (not simultaneously). Variable speed control by hand dial or the included foot control type TPU-20-FC. Supplied with hand-piece cradle and a convenient magnetic tool holder.

- Digital display showing the speed in rpm
- Maximum torque set mode
- Maximum speed set mode
- Built in handle for best portability
- Error code display function
- Foot control with auto-cruise speed function
- Self diagnosis system

Technical data

Input: AC 200 ~ 240 V at 50/60 Hz
 Output: DC 0 – 32 V, 1,6 A, BLDC 0 – 32 V, 1,6 A
 Power DC: max. 185 W
 Power BLDC: max. 245 W
 Weight Power unit: 2,9 kg
 Dimensions Power unit: W137 x D232 x H180 mm
 Weight Foot control: 575 g

REF

TPU20220V

D/G



Adapter

Adapter for connecting Urawa, Argofile and Gesswein front-pieces to the Diprofil micro-motors type HPM-BL1 and HPM-B1 (when using DC motor type HPM-B1 a specific shaft with item no. D/G-7 is also required).

REF

D/G

MFB - MFA-K



Lubrication

The Dipro-fog (MFB) package consists of air filter, regulator, manometer, and fog lubrication device, all in one, with tubing and Dipro-fog oil (MFA-K).

Technical data

Max primary pressure: 16 bar
 Max capacity at 7 bar: 1200 l/min
 Hose connection: 7 mm
 Secondary pressure: 0,5 - 10 bar

REF	Description
MFB	Dipro-fog
MFAK	Lubrication oil (0.5 l)

Quick Coupling

Each air-driven machine requires a quick coupling (HSL-M) as well as a fog lubricating device type Dipro-fog MFB to ensure efficient lubrication at all times.
A 3-way hose connection and air hose is also available.

HSL-M



REF	Old DME REF
HSLM	HDL

Info

Precision Diamond Files



Diprofil Diamond Files are made from carefully selected diamonds, precisely bonded to obtain the best physical properties for added strength and resistance to wear. Diamond files are excellent for use on carbide, hardened steel, glass, ceramics and other similar materials.

Other shapes, dimensions and grit sizes available upon request.

DLK ...

Diprofil®, Diamond machine files

Features:

- Grainsize according to FEPA
- Diamond D151 (coarse)

REF D151	Dimensions	Shape
DLK11D151	10 x 2,5 mm	

DLA...

Standard Machine Files



Shape	Size (mm)	REF		
		Grit D64	Grit D151	Grit D181
	2x1	DLA2X1SD064	DLA2X1SD151	DLA2X1SD181
	3x1	DLA3X1SD064	DLA3X1SD151	DLA3X1SD181
	4x1	DLA4X1SD064	DLA4X1SD151	DLA4X1SD181
	4x2	DLA4X2SD064	DLA4X2SD151	DLA4X2SD181
	5x2	DLA5X2SD064	DLA5X2SD151	DLA5X2SD181
	Ø 1	DLA1D064	DLA1D151	DLA1D181
	Ø 2	DLA2D064	DLA2D151	DLA2D181
	Ø 3	DLA3D064	DLA3D151	DLA3D181
	Ø 4	DLA4D064	DLA4D151	DLA4D181
	R = 2,5x5	DLAR2-5R5D064	DLAR2-5R5D151	DLAR2-5R5D181

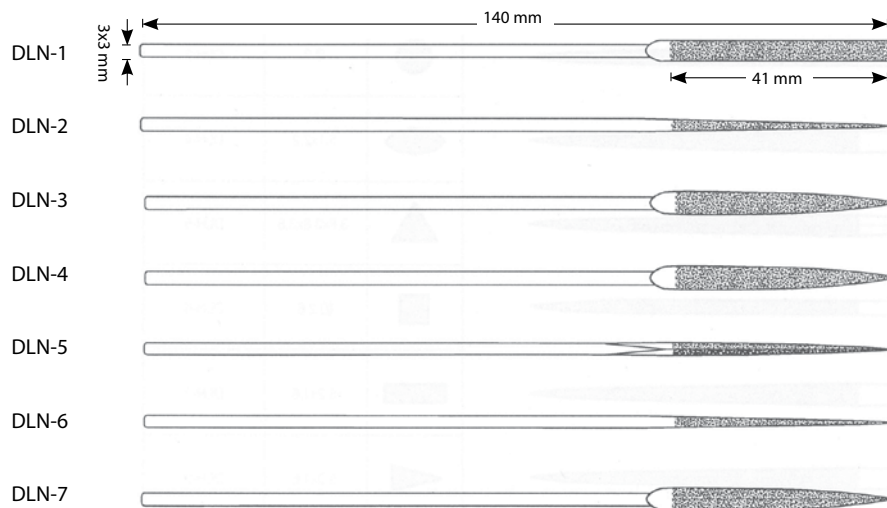
Safe Sided Machine Files

DLA...

Shape	Size (mm)	REF		
		Grit D64	Grit D151	Grit D181
	2x1	DLA2X1D064	DLA2X1D151	DLA2X1D181
	3x1	DLA3X1D064	DLA3X1D151	DLA3x1D181
	4x1	DLA4X1D064	DLA4X1D151	DLA4x1D181
	5x2	DLA5X2D064	DLA5X2D151	DLA5x2D181
	0,50x4		DLA0-5X4D151	
	1,00x4		DLA1X4D151	
	2x2x2	DLAT2D064	DLAT2D151	DLAT2D181
	3x3x3	DLAT3D064	DLAT3D151	DLAT3D181
	4x4x4	DLAT4D064	DLAT4D151	DLAT4D181

Standard Hand Files

DLN...



Shape	Size (mm)	REF	
		Grit D64	Grit D151
	4x1,3	DLN1D064	DLN1D151
	Ø 1,6	DLN2D064	DLN2D151
	4x1,8	DLN3D064	DLN3D151
	4x1,6	DLN4D064	DLN4D151
	3x3x3	DLN5D064	DLN5D151
	1,9x1,9	DLN6D064	DLN6D151
	4,1x1,5	DLN7D064	DLN7D151

Diamond Plated Rulers

KSD

Total length 250 mm, width 25mm, thickness 1,0 mm. Length of plated area 135 mm. Diamond plated all around.

REF	
Grit D64	Grit D151
KSD2035D064	KSD2035D151



DLN 100 ...

Diprofil®, Diamond hand files

Features:

- Set of 7 diamond hand files, one of each DLN 1 to DLN 7

REF	Grain
DLN100D064	D 64
DLN100D151	D 151

Info

DIPRO® precision diamond files

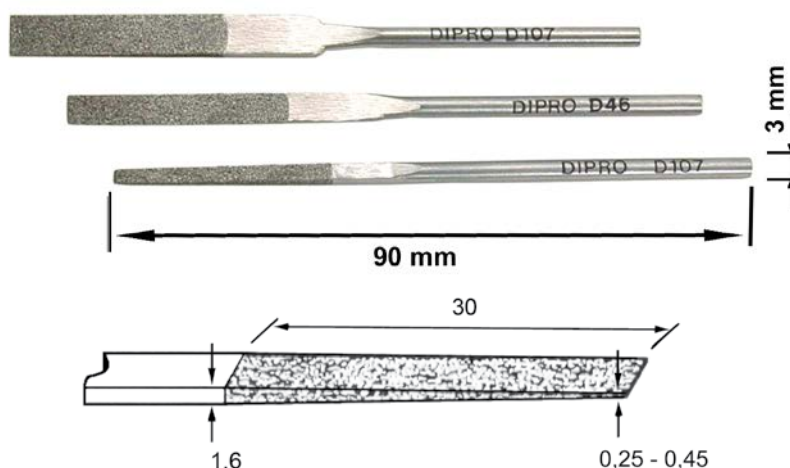


Dipro Diamond Files are made from carefully selected diamonds, precisely bonded to obtain the best physical properties for added strength and resistance to wear. Diamond files are excellent for use on carbide, hardened steel, glass, ceramics and other similar materials.

Other shapes, dimensions and grit sizes available on request.

DLM...

Conical Machine Files



Standard Files

Shape	Size (mm)	REF			
		Grit D30	Grit D46	Grit D76	Grit D107
	2,5x1,6	DLM1D30	DLM1D46	DLM1D76	DLM1D107
	4x1,6	DLM2D30	DLM2D46	DLM2D76	DLM2D107
	6x1,6	DLM3D30	DLM3D46	DLM3D76	DLM3D107
	8x1,6	DLM4D30	DLM4D46	DLM4D76	DLM4D107

Conical Machine Files Set

DLM-Set

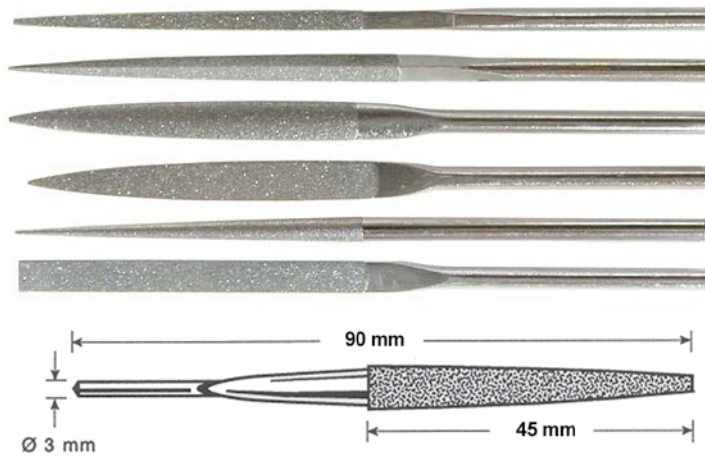
Sets consisting of 6 different DLM-files, DLM-1 through DLM-3 in the following grit sizes:

Grit sizes	REF
D46 + D107	DLM/1
D30 + D46	DLMSETF
D76 + D107	DLMSETM



Machine Files

DBE...



Standard Files

Shape	Size (mm)	REF		
		Grit D46	Grit D76	Grit D107
	4 x 2	DBE1D046	DBE1D076	DBE1D107
	ø3	DBE2D046	DBE2D076	DBE2D107
	5x2	DBE3D046	DBE3D076	DBE3D107
	5x2	DBE4D046	DBE4D076	DBE4D107
	3,5x3,5x3,5	DBE5D046	DBE5D076	DBE5D107
	2,5x2,5	DBE6D046	DBE6D076	DBE6D107

Machine Files Set

DBE-Set

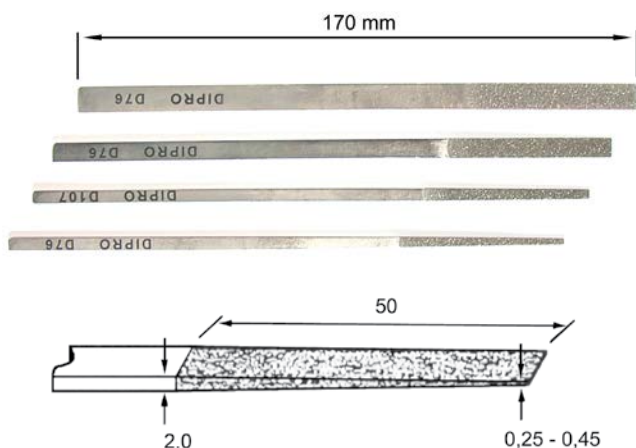
Set consisting of the 6 different DBE-files in respective grit sizes.

REF
DBESETD046
DBESETD076
DBESETD107



DLS...

Conical Hand Files



Standard Files		REF			
Shape	Size (mm)	Grit D30	Grit D46	Grit D76	Grit D107
	4 / 2	DLS1D30	DLS1D46	DLS1D76	DLS1D107
	4 / 3	DLS2D30	DLS2D46	DLS2D76	DLS2D107
	6 / 6	DLS3D30	DLS3D46	DLS3D76	DLS3D107
	8 / 8	DLS4D30	DLS4D46	DLS4D76	DLS4D107

DLS-Set

Conical Hand Files Set



Sets consisting of 10 different DLS-handfiles.

Types	REF
DLS 2,3,4 in D46; DLS 1,2,3,4 in D76; DLS 2,3,4 in D107	DLS/1
DLS 1,2,3,4 in D30; DLS 1,2,3,4 in D46; DLS 1,2 in D76	DLSSETF

Hand Files

DBH...



Total file length approx 140 mm. Shank diameter 3 mm.

Shape	Size (mm)	REF		
		Grit D46	Grit D76	Grit D126
	6x1,5	DBH1D046	DBH1D076	DBH1D126
	ø3	DBH2D046	DBH2D076	DBH2D126
	5x2	DBH3D046	DBH3D076	DBH3D126
	5x2	DBH4D046	DBH4D076	DBH4D126
	3,5x3,5x3,5	DBH5D046	DBH5D076	DBH5D126
	2,5x2,5	DBH6D046	DBH6D076	DBH6D126
	6x2	DBH7D046	DBH7D076	DBH7D126
	5,4x1,5	DBH8D046	DBH8D076	DBH8D126
	1,7x6	DBH9D046	DBH9D076	DBH9D126
	6x1,5	DBH10D046	DBH10D076	DBH10D126

Hand Files Set

DBH-Set

Set consisting of the above 10 different DBH-handfiles in respective grit size.

REF
DBHSETD046
DBHSETD076
DBHSETD126



DLL...

Conical Hand Files



Total file length approx 140 mm. Shank diameter 3 mm.

Shape	Size (mm)	REF			
		Grit D30	Grit D46	Grit D76	Grit D107
	1,7x2	DLL1D30	DLL1D46	DLL1D76	DLL1D107
	1,7x4	DLL2D30	DLL2D46	DLL2D76	DLL2D107
	1,7x6	DLL3D30	DLL3D46	DLL3D76	DLL3D107
	ø3	DLL4D30			

DLL-Set

Conical Hand Files Set



Set consisting of 10 different DLL-hand-files.

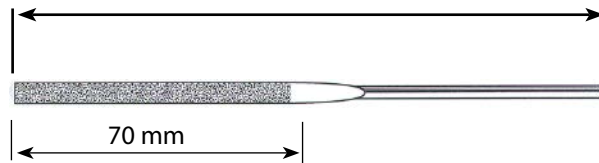
Types	REF
DLL 1,2,3,4 in D30; DLL 1,2,3 in D46; DLL 1,2,3 in D76	DLLSET
DLL-4-D30; DLL 1,2,3 in D46; DLL 1,2,3 in D76; DLL 1,2,3 in D107	DLLSETM

Hand Files

DLQ...



Shank diameter 4 mm.
200 mm



Standard Files		REF	
Shape	Size (mm)	Grit D46	Grit D126
	8,5x1,6	DLQ1D46	DLQ1D126
	ø4	DLQ2D46	DLQ2D126
	7x2,5	DLQ3D46	DLQ3D126
	3,5x3,5	DLQ4D46	DLQ4D126
	4,5 x4,5x4,5	DLQ5D46	DLQ5D126

Hand Files Set

DLQ-Set

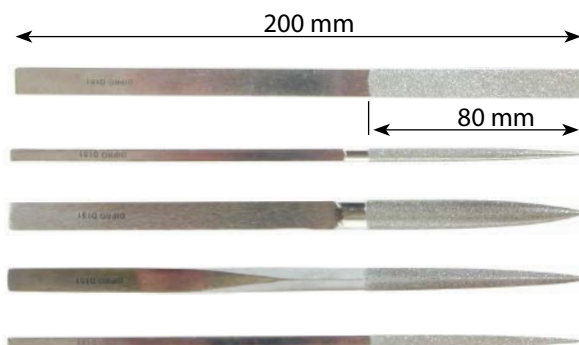
Set consisting of the above 5 different DLQ-handfiles

REF
DLQSETD126
DLQSETD46



DLX...

Hand Files



Standard Files

Shape	Size (mm)	REF
	11 x 3,5	DLX1D151
	ø5	DLX2D151
	10,5x4,4	DLX3D151
	7,7x7,7x7,7	DLX4D151
	6,3x6,3	DLX5D151

DLX-Set

Hand Files Set

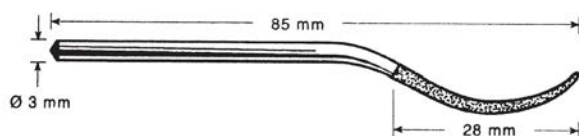


Set consisting of the above 5 different DLX-handfiles

REF
DLXSETD151

DLF ...

Diprofil®, Diamond machine files



Features:

- Grainsize according to FEPA
- Diamond D151 (coarse)
- Diamond D181 (very coarse)

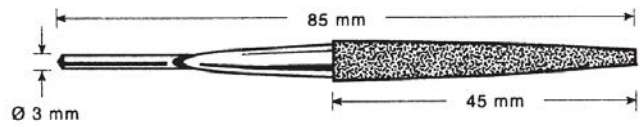
REF	REF	Dimensions	Shape
DLF1D151	DLF1D181	4,5 x 2,5 mm	
DLF2D151	DLF2D181	ø 3 mm	
DLF4D151	DLF4D181	5 x 2,5 mm	
DLF6D151	DLF6D181	3 x 3 mm	

Diprofil®, Diamond machine files

DLE ...

Features:

- Grain size according to FEPA
- Diamond D151 (coarse)
- Diamond D181 (very coarse)



REF	REF	Dimensions	Shape
DLE11D151	DLE11D181	5 x 1 mm	
DLE2D151	DLE2D181	Ø 3 mm	
DLE3D151		5 x 2 mm	
DLE4D151		5 x 2 mm	
DLE5D151	DLE5D181	3,5 x 3,5 x 3,5 mm	
DLE6D151	DLE6D181	2,5 x 2,5 mm	
DLE1D151	DLE1D181	5 x 1 mm	
DLE3D151		5 x 2 mm	

Diprofil®, Diamond hand files

DLG ...

Features:

- Grain size according to FEPA
- Diamond D 151 (coarse)
- Total length 140 mm
- Coating length 41 mm
- Shaft 2,2 x 2,2 mm

REF	Dimensions	Shape
DLG1D151	10 X 3 mm	
DLG2D151	Ø 6,5 mm	
DLG3D151	12 X 4 mm	
DLG4D151	9,5 x 9,5 x 9,5 mm	
DLG5D151	5,5 x 5,5 x 5,5 mm	

Diprofil®, Diamond hand files

DLG 100 ...

Features:

- Set of 5 diamond hand files, one of each DLG 1 to DLG 5

REF	Grain
DLG100D151	D 151



Diprofil Rotary Diamond and CBN Tools are made from carefully selected quality diamonds and Cubic Boron Nitride, precisely bonded to obtain the best physical properties for added strength and resistance to wear. Electroplated Diamond pins and wheels are excellent for general grinding applications in hard materials such as carbide, hardened steel and ceramics. They are normally used without cooling agent but in stationary applications, and when grinding in thin glass cooling is often required. Maximum temperature for Diamonds is 800 °C. Electroplated cylindrical CBN pins are excellent for general grinding applications in hardened steel. They are normally used without cooling agent but in stationary applications cooling is often required. Maximum temperature for CBN is 1200 °C.

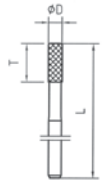
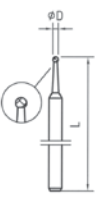
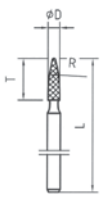

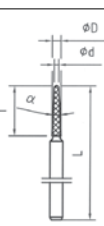
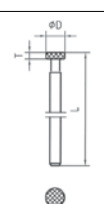
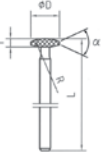
Recommended speeds
 Recommend speed for dry cutting:
 Diamond: 10 – 20 m/s
 CBN: 15 – 30 m/s

Recommend speed for wet cutting:
 Diamond: 15 – 30 m/s
 CBN: 20 – 45 m/s

Cooling: Cooling normally enhances the lifetime of the tools. In addition it also generates a better surface. The risk for damage on thin or sharp edges of the grinding tool is reduced when using coolant. Cooling is performed with an emulsion or grinding oil. For diamond tools an Emulsion is specially recommended and for CBN tools a mineral oil is preferable.

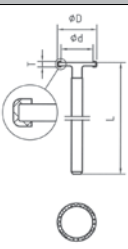
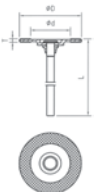
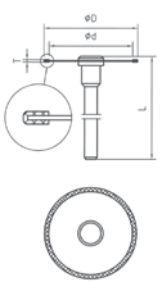
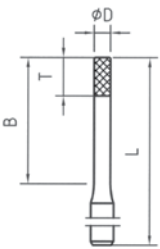
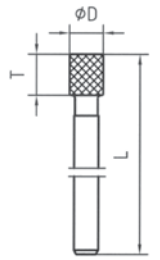
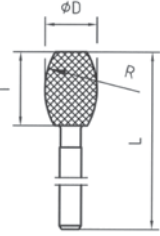
Recommended speeds in RPM

Tool Ø (mm)	Peripheral speed (m/s)							
	10	20	25	30	35	40	45	50
2	95541	191083	238854	286624	334395	382166	429936	477707
3	63694	127389	159236	191083	222930	254777	286624	318471
4	47771	95541	119427	143312	167197	191083	214968	238854
5	38217	76433	95541	114650	133758	152866	171975	191083
6	31847	63694	79618	95541	111465	127389	143312	159236
7	27298	54595	68244	81893	95541	109190	122839	136488
8	23885	47771	59713	71656	83599	95541	107484	119427
9	21231	42463	53079	63694	74310	84926	95541	106157
10	19108	38217	47771	57325	66879	76433	85987	95541
12	15924	31847	39809	47771	55732	63694	71656	79618
14	13649	27298	34122	40946	47771	54595	61419	68244
16	11943	23885	29857	35828	41799	47771	53742	59713
18	10616	21231	26539	31847	37155	42463	47771	53079
20	9554	19108	23885	28662	33439	38217	42994	47771
22	8686	17371	21714	26057	30400	34742	39085	43428
24	7962	15924	19904	23885	27866	31847	35828	39809
26	7349	14699	18373	22048	25723	29397	33072	36747
28	6824	13649	17061	20473	23885	27298	30710	34122
30	6369	12739	15924	19108	22293	25478	28662	31847
35	5460	10919	13649	16379	19108	21838	24568	27298

	Shape	Dimensions	Grit Size	REF	Shank diameter
	Cylinder	D 1,4, T 7, L 46	D 107	DT86HP	Ø 2,35 mm
		D 1,9, T 5, L 46	D 151	DB305HP	
		D 2,5, T 7, L 46	D 151	DT100HP	
		D 2,6, T 3, L 46	D 151	DT107HP	
	Ball	D 0,8, L 46	D 107	DB12/0HP	
		D 1,3, L 46	D 107	DB102HP	
		D 1,7, L 46	D 151	DB104HP	
		D 1,9, L 46	D 151	DB105HP	
		D 2,5, L 46	D 151	DB108HP	
		D 3,0, L 41,3	D 151	DT101HP	
	Flame	D 1,3, T 4, R 18, L 46	D 151	DB902AHP	
		D 1,6, T 7,5, R 45, L 46	D 151	DT95BHP	
		D 2,4, T 7,5, R 30, L 46	D 151	DT117HP	
		D 2,4, T 10, R 30, L 46	D 151	DT510HP	
	Cone	D 5,1, a 27°, T 9,5, L 48,4	D 151	DT93HP	
		D 7,3, a 60°, T 6, L 45,6	D 151	DT236HP	
	Cone round	D 1,3, d 0,7, a 4°, T 9, L 46	D 151	DB702HP	
		D 1,6, d 0,8, a 5°, T 9, L 46	D 151	DB704HP	
		D 1,9, d 1,1, a 5°, T 9, L 46	D 151	DB706HP	
	Wheel	D 6,3, T 0,5, L 40	D 151	DT129PHP	
	Wheel	D 9,3, a 16°, T 1,3, L 40,2	D 151	DT109HP	

D ...

Diamond and CBN Rotary Tools

	Shape	Dimensions	Grit Size	REF	Shank diameter	
	Grinding wheel	D 8,7, d 7,0, T 1,3, L 40	D 151	DT56PHP	Ø 2,35 mm	
		D 9,0, d 7,0, T 0,6, L 40	D 151	DT128PHP		
		D 12,9, d 9,5, T 1,4, L 45,4	D 151	DT55PHP		
	Grinding wheel	D 20, d 12,75, T 1,0, L 48	D 151	DT132PHP		
	Cutting wheel	D 15,0, d 13,0, T 0,6, L 48	D 151	DT124PHP		
		D 18,0, d 16,0, T 0,6, L 48	D 151	DT125PHP		
		D 20,0, d 18,0, T 0,6, L 48	D 151	DT126PHP		
		D 22,0, d 20,0, T 0,6, L 48	D 151	DT127PHP		
	Cylinder	D 0,8, T 4,0, B 7, L 46	D 107	D0308LH3		Ø 3,0 mm
		D 1,0, T 4,0, B 8, L 46	D 107	D0310LH3		
		D 1,5, T 4,0, B 10, L 46	D 107	D0315LH3		
		D 2,0, T 5,0, B 14, L 46	D 151	D0320LH3		
		D 2,0, T 5,0, B 14, L 46	D 64	D0320LH3D064		
		D 2,5, T 5,0, B 19, L 46	D 151	D0325LH3		
		D 2,5, T 7,0, B 19, L 46	D 151	D1325H3		
		D 3,0, T 5,0, B 19, L 46	D 151	D0330LH3		
		D 3,0, T 5,0, B 19, L 46	D 64	D0330LH3D064		
	Cylinder	D 3,5, T 5,0, L 44	D 151	D0335LH3		
		D 4,0, T 5,0, L 44	D 151	D0340LH3		
		D 4,5, T 5,0, L 44	D 151	D0345LH3		
		D 5,0, T 6,0, L 45	D 151	D0350LH3		
		D 5,5, T 6,0, L 45	D 151	D0352LH3		
		D 6,0, T 6,0, L 45	D 151	D0354LH3		
		D 6,0, T 10, L 49	D 151	D1354H3		
	Cylinder rounded	D 7,0, d 4,5, T 10, R 10, L 49	D 151	D6258H3		

	Shape	Dimensions	Grit Size	REF	Shank diameter
	Cylinder rounded end	D 6,0 T 10, R 3, L 49	D 151	D6054H3	Ø 3,0 mm
	Ball	D 1,7, L 46	D 151	D0116H3	
		D 1,7, L 46	D 64	D0116H3D064	
		D 2,1, L 46	D 151	D0120H3	
		D 2,5, L 46	D 151	D0124H3	
		D 3,0, L 46	D 151	D0130H3	
		D 3,0, L 46	D 64	D0130H3D064	
		D 4,1, L 46	D 151	D0140H3	
		D 5,0, L 46	D 151	D0150H3	
D 6,0, L 46	D 151	D0154H3			
	Flame	D 1,6, T 7,5, R 45, L 46	D 151	D0916H3	
		D 1,6, T 10, R 45, L 46	D 151	D0916LH3	
		D 1,6, T 10, R 45, L 46	D 64	D0916LH3D064	
		D 2,4, T 7,5, R 30, L 46	D 151	D0924H3	
		D 2,4, T 10, R 30, L 46	D 151	D0924LH3	
		D 2,4, T 10, R 30, L 46	D 64	D0924LH3D064	
	Cone	D 3,1, a 30°, T 5,0, L 46	D 151	D5830H3	
		D 3,1, a 30°, T 5,0, L 46	D 64	D5830H3D064	
		D 8,0, a 90°, T 3,9, L 43,2	D 151	D5562H3	
		D 8,0, a 60°, T 6,6, L 45,9	D 151	D5662H3	
	Cone rounded end	D 1,3, d 0,7, a 4°, T 9, L 46	D 151	D0712H3	
		D 1,6, d 0,8, a 5°, T 9, L 46	D 151	D0716H3	
		D 1,9, d 1,1, a 5°, T 9, L 46	D 151	D0720H3	
		D 1,9, d 1,1, a 5°, T 9, L 46	D 64	D0720H3D064	
	Cone flat end	D 1,6, d 0,9, a 4°, T 10, L 46	D 151	D0516LH3	
		D 2,1, d 1,4, a 4°, T 10, L 46	D 151	D0521LH3	
		D 2,1, d 1,4, a 4°, T 10, L 46	D 64	D0521LH3D064	
		D 2,6, d 1,75, a 4°, T 3, L 46	D 151	D0526H3	
		D 7,0, d 2,0, a 30°, T 10, L 49	D 151	D5858H3	
		D 8,0, d 1,4, a 45°, T 8,5, L 47,5	D 151	D5756H3	

D ...



Diamond and CBN Rotary Tools

	Shape	Dimensions	Grit Size	REF	Shank diameter
	Cone rounded	D 6,0, T 10, R 17, L 49	D 151	D0954H3	Ø 3,0 mm
	Cone inverted	D 2,4, d 1,5, a 20°, T 3, L 46	D 151	D0224H3	
		D 2,4, d 1,5, a 20°, T 3, L 46	D 64	D0224H3D064	
		D 6,5, d 3,5, a 15°, T 10, L 49	D 151	D5456H3	
		D 8,0, d 3,0, a 90°, T 2,15, L 42	D 151	D5062H3	
	Cone inverted, rounded end	D 6,0, d 3,5, a 20°, T 10, R 3, L 49	D 151	D6154H3	
	Wheel	D 7,3, T 0,8, L 40	D 151	D1525H3	
	Wheel	D 9,0, d 7, T 0,6, L 40	D 151	D1018H3	
	Wheel	D 20, d 12,75, T 1,0, L 48	D 151	D1539H3	
	Grinding	D 17,2, d 14,6, T 2,4, L 48	D 151	D1127H3	

	Shape	Dimensions	Grit Size	REF	Shank diameter
	Grinding	D 5,8, T 2,3, R 1, L 41	D 151	D1422H3	Ø 3,0 mm
		D 9,8, T 3,4, R 1,5, L 42,2	D 151	D1430H3	
	Cutting wheel	D 15,0, d 13,0, T 0,6, L 48	D 151	D1021H3	
		D 18,0, d 16,0, T 0,6, L 48	D 151	D1024H3	
		D 22,0, d 20,0, T 0,6, L 48	D 151	D1031H3	
		D 36,0, d 34,0, T 1,0, L 48	D 151	D1042H3	
	Grinding wheel	D 4,1, a 60°, T 1,5, L 40,2	D 151	D1916H3	
		D 9,3, a 7,5°, T 1,3, L 41	D 151	D1629H3	
	Grinding wheel	D 22,0, d 7,0, T 0,35, L 48	D 151	D1231H3	
	Cone	D 0,6, R 0,3, a 5°, T 18, L 46	D 151	S067	
	Cylinder	D 6, T 8, L 60	D 151	D0354LH6	Ø 6,0 mm
		D 7, T 8, L 60	D 151	D0358LH6	
		D 8, T 8, L 60	D 151	D0362LH6	
		D 10, T 10, L 60	D 151	D0370LH6	
		D 12, T 10, L 60	D 151	D0374LH6	
		D 15, T 10, L 60	D 151	D0380LH6	

SET ...

Diamond grinding pin sets - Shank diameter Ø 3,0 mm

	Description	Grit Size	REF
	<p>Set consisting of 1 each of the following Diamond points and pins in Grit size FEPA D 151.</p> <p>D-0116-H3 D-0130-H3 D-0320L-H3 D-0330L-H3 D-0720-H3 D-0521L-H3 D-5830-H3 D-0916L-H3 D-0924L-H3 D-0224-H3</p>	D 151	SET10A3
	<p>Set consisting of 1 each of the following Diamond points and pins in Grit size FEPA D 64.</p> <p>D-0116-H3-D64 D-0130-H3-D64 D-0320L-H3-D64 D-0330L-H3-D64 D-0720-H3-D64 D-0521L-H3-D64 D-5830-H3-D64 D-0916L-H3-D64 D-0924L-H3-D64 D-0224-H3-D64</p>	D 64	SET10B3
	<p>Set consisting of 1 each of the following Diamond points and pins in Grit size FEPA D 107 and D 151.</p> <p>D-0308L-H3 (D 107) D-0310L-H3 (D 107) D-0315L-H3 (D 107) D-0320L-H3 D-0325L-H3 D-0330L-H3 D-0116-H3 D-0120-H3 D-0124-H3 D-0130-H3</p>	D 107 / D 151	SET20A3

Original diprofil precision CBN tools

Info

Diprofil CBN Rotary Tools are made from carefully selected CBN (Cubic Boron Nitride), precisely bonded to obtain the best physical properties for added strength and resistance to wear. CBN tools are excellent for use on Tool Steels, Stainless Steels and Cast Iron.

Other shapes, dimensions and grit sizes available upon request.



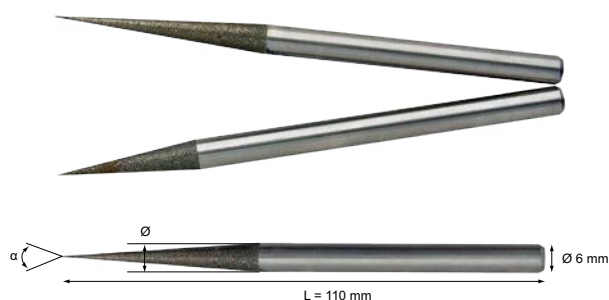
Original diprofil precision CBN tools

B ...

	Shape	Dimensions	Grit Size	REF	Shank diameter
	Cylinder	D 0,8, T 4,0, B 7, L 46	B 107	B0308LH3	Ø 3,0 mm
		D 1,0, T 4,0, B 8, L 46	B 107	B0310LH3	
		D 1,5, T 4,0, B 10, L 46	B 107	B0315LH3	
		D 2,0, T 5,0, B 14, L 46	B 151	B0320LH3	
		D 2,5, T 5,0, B 19, L 46	B 151	B0325LH3	
		D 3,0, T 5,0, B 19, L 46	B 151	B0330LH3	
	Cylinder	D 3,5, T 5,0, L 44	B 151	B0335LH3	
		D 4,0, T 5,0, L 44	B 151	B0340LH3	
		D 4,5, T 5,0, L 44	B 151	B0345LH3	
		D 5,0, T 6,0, L 45	B 151	B0350LH3	
		D 5,5, T 6,0, L 45	B 151	B0352LH3	
		D 6,0, T 6,0, L 45	B 151	B0354LH3	
	Cylinder	D 6, T 8, L 60	B 151	B0354LH6	Ø 6,0 mm
		D 7, T 8, L 60	B 151	B0358LH6	
		D 8, T 8, L 60	B 151	B0362LH6	
		D 10, T 10, L 60	B 151	B0370LH6	
		D 12, T 10, L 60	B 151	B0374LH6	
		D 15, T 10, L 60	B 151	B0380LH6	

DTP...

Precision Diamond Taper Pins



Ideal for grinding and polishing of carbide drawing dies for the wire and tube industries. All tools have \varnothing 6 mm shank.

Angle = α	Diameter = \varnothing	Grit Size	REF
8°	6 mm	D 76	DTP86D76
8°	6 mm	D 91	DTP86D91
8°	10 mm	D 76	DTP810D76
8°	10 mm	D 91	DTP810D91
12°	6 mm	D 76	DTP126D76
12°	6 mm	D 91	DTP126D91
12°	10 mm	D 76	DTP1210D76
12°	10 mm	D 91	DTP1210D91

All types are also available as blanks for polishing and final finishing with Diamond Compound.

Angle = α	Diameter = \varnothing	Grit Size	REF
8°	6 mm	n/a	DTP86
8°	10 mm	n/a	DTP810
12°	6 mm	n/a	DTP126
12°	10 mm	n/a	DTP1210

ASEA...

Diamond Cutting Discs



Other dimensions and grit sizes available upon request

Dimensions (\varnothing x Width x Bore \varnothing)	Grit Size	REF
20 x 0,4 x 2,5	D107	ASEA20/040
20 x 0,6 x 2,5	D151	ASEA20/060
20 x 0,8 x 2,5	D151	ASEA20/080
20 x 1,0 x 2,5	D151	ASEA20/100
22 x 0,6 x 2,5	D151	ASEA22/060
25 x 0,8 x 2,5	D151	ASEA25/080
30 x 0,8 x 6	D151	ASEA30/080
36 x 1,0 x 2,5	D151	ASEA36/100

MLD/P - MLE/P

Mandrels for Diamond Cutting Discs



Hardened stainless mandrel shanks

Type	REF
Shank \varnothing 2,35 mm, Flange \varnothing 5 mm, Screw M2,5	MLD/P
Shank \varnothing 3,0 mm, Flange \varnothing 6 mm, Screw M2,5	MLE/P

Polishing, Lapping & Honing Tools

Info



Diprofil offer a wide range of Honing and Lapping Tools for all kinds of polishing and super finishing applications. All Lapping Tools are excellent as carriers for the Diprofil Diamond Compound.

Wood Bobs 0 3 mm

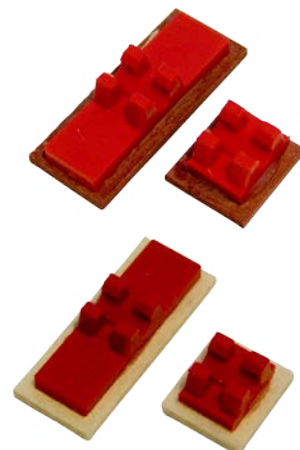
WB-...

0 3,0 x 30 mm	Dimension O x T (mm)	Hard Wood	Soft Wood
	0 20,0 x 30,0	WB2030H	WB2030S
	0 15,0 x 25,0	WB1525H	WB1525S
	0 10,0 x 20,0	WB1020H	WB1020S
	0 6,0 x 15,0	WB0615H	WB0615S
	0 10,0	WB0010H	WB0010S
	0 10,0 x 30,0	WB1030H	WB1030S

Polishing Tools on plastic shoes

MS... - VF... - FF...

Excellent for delicate polishing applications together with Polishing-/Filing machines and the Toggle rod type TR-3140.



Type	Dimension (mm)	Quantity	REF
Brass	15x13x1,5	1 pc	MS15X13
Brass	33x13x1,5	1 pc	MS33X13
Fibre	15x13x1,5	1 pc	VF15X13
Fibre	33x13x1,5	1 pc	VF33X13
Felt	15x13x2	1 pc	VF15X13
Felt	33x13x2	1 pc	FF33X13

FX-PK

DI-PRO Polishing-kit



The low weight of the tools makes them especially suitable for use with the low-vibrating Di-Pro Polishing-/Filing machines. Using the tools included in this kit ensures that potentially harmful vibrations are kept at a minimum level. Also reduces the need for adding and removing counterweight inserts as all the included tools are within the same weight span.

Kit includes the following items:

- 1 Toggle rod TR-3140
- 2 pcs of MS-15x13
- 1 pc of MS-33x13
- 2 pcs of FF-15x13
- 1 pc of FF-33x13
- 2 pcs of VF-15x13
- 1 pc of VF-33x13
- 1 pc of PS-129
- 1 pc of PS-309

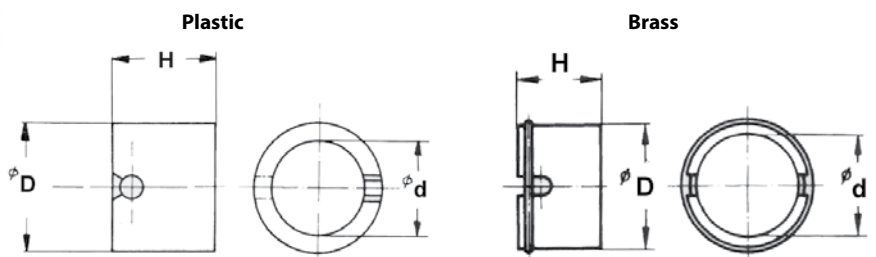
REF
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LRP... - LRB...

Polishing, Lapping & Honing Tools



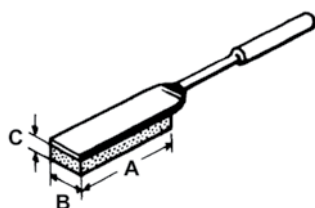
Rotating tools for use together with Diamond Compound in various lapping and polishing applications.



Material	Type	Ø D (mm)	Ø d (mm)	Height (mm)	Quantity	REF
Plastic	8	9	6	6	10 pcs	LRP8
Plastic	12	13	10	8	20 pcs	LRP12
Plastic	20	21	17	14	10 pcs	LRP20
Brass	8	8	6	6	10 pcs	LRB8
Brass	12	12	10	8	20 pcs	LRB12
Brass	20	20	17	14	10 pcs	LRB20

LLC...

Honing tools

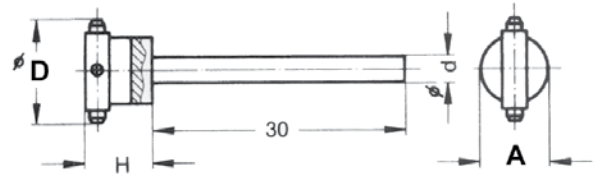


Rectangular honing tool on shank diameter 3,0 mm

Type	Dimensions (AxBxC)	REF
India Grit 280 Hard	18 x 7 x 2 mm	LLC2A3

Mandrels

M...

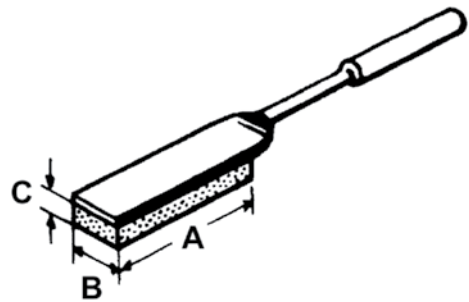


Mandrels for use together with Lapping rings. Snaps on and keeps rings flat against the work surface.

For use with:	Ø D (mm)	Shank Ø d (mm)	H (mm)	A (mm)	REF
Type 8 rings	8	3,0	6	5	M8/3
Type 12 rings	12	3,0	7,5	8	M12/3
Type 20 rings	20	3,0	7,5	8	M20/3
Type 20 rings	20	6,0	11	9	M20/6

Lapping tools

LLB...

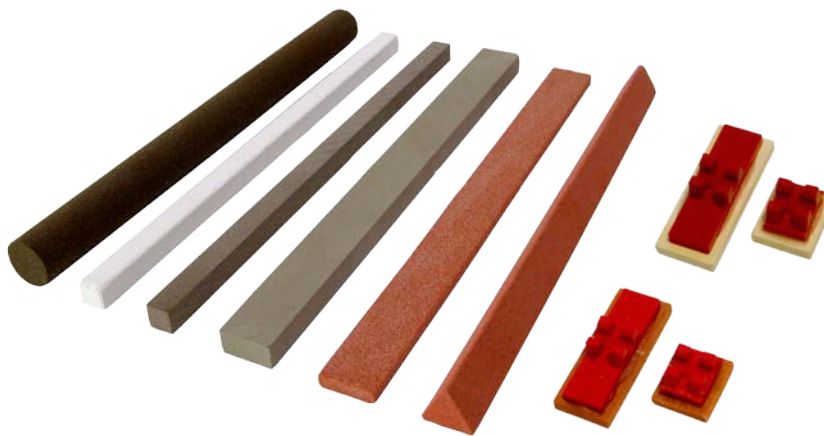


Rectangular lapping tools on shank diameter 3,0 mm

Type	Dimensions (AxBxC)	REF
Cast Iron	18 x 7 x 1 mm	LLB1A
Copper	18 x 7 x 1 mm	LLB2A
Fibre	18 x 7 x 1,5 mm	LLB4A
Balsa Wood	18 x 7 x 1,5 mm	LLB5A
Felt	18 x 7 x 3 mm	LLB7A

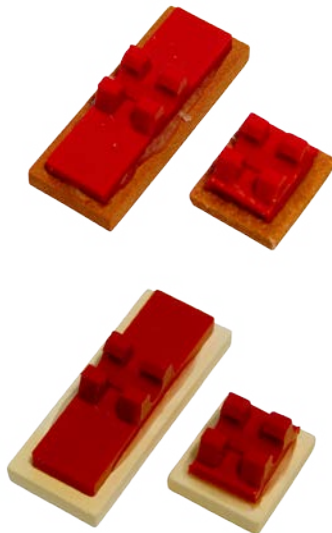
Info

Polishing, Lapping & Honing Tools



EDM... - MOL...

Polishing Stones on plastic shoes



Excellent for delicate stoning applications together with Polishing-/Filing machines and the Toggle rod type TR-3140.

Type	Dimension (mm)	Grit size	Quantity	REF
EDM	15x13x3	G120	1 pc	EDM15120
EDM	33x13x3	G120	1 pc	EDM33120
EDM	15x13x3	G180	1 pc	EDM15180
EDM	33x13x3	G180	1 pc	EDM33180
EDM	15x13x3	G320	1 pc	EDM15320
EDM	33x13x3	G320	1 pc	EDM33320
MOL	15x13x3	G400	1 pc	MOL15400
MOL	33x13x3	G400	1 pc	MOL33400
MOL	15x13x3	G600	1 pc	MOL15600
MOL	33x13x3	G600	1 pc	MOL33600

TR-3140

Toggle Rod



Toggle rod for plastic shoes. Can easily be bent to an angle if required.

Shank \varnothing 3,5 mm
Length 140 mm

REF
TR3140

DI-PRO Stoning-kit

FX-SK

The low weight of the tools makes them especially suitable for use with the low-vibrating Di-Pro Polishing-/Filing machines. Using the tools included in this kit ensures that potentially harmful vibrations are kept at a minimum level. Also reduces the need for adding and removing counterweight inserts as all the included tools are within the same weight span.

The kit includes the following items:

- 1 Toggle rod TR-3140
- 2 pcs of EDM-15-120
- 1 pc of EDM-33-120
- 2 pcs of EDM-15-180
- 1 pc of EDM-33-180
- 2 pcs of EDM-15-320
- 1 pc of EDM-33-320
- 2 pcs of MOL-15-400
- 1 pc of MOL-33-400
- 2 pcs of MOL-15-600
- 1 pcs of MOL-33-600



Di-PRO™

REF
FXSK

Tool Holders

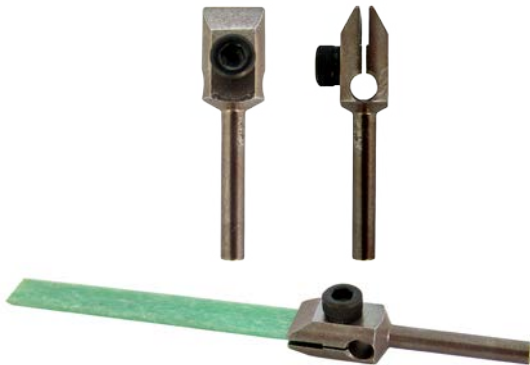
Info

Tool holders for polishing stones, super stones, super grinders and lapping ribs.



THFS-1

Super Stone Holder



Tool-holder made of hardened steel for use together with ceramic fibre stones (Super stones) and lapping-/polishing tools with a thickness of 1 mm.

Shank Ø: 3,0 mm
 Shank length: 18 mm
 Total length: 31,5 mm
 Width: 8 mm
 Weight: 4,3 g

REF

THFS1

THPS-3

Universal tool holder



Tool-holder made of hardened steel for use together with polishing stones and lapping-/polishing tools with a thickness of 3 mm.

Shank Ø: 3,0 mm
 Shank length: 18 mm
 Total length: 31,5 mm
 Width: 8 mm
 Weight: 3,9 g

REF

THPS3

FMR/VH

Universal tool holder



Tool holder for Super Stones, Super Grinders and Polishing Stones to be used together with the Diprofil Polishing/Filing Machines. Stainless hardened shank Ø 3,0 mm. Shank length approx. 35 mm. Maximum tool thickness 6 mm.

REF

FMR/VH

QEA/3

Tool holder



Tool holder for use in the Diprofil Polishing/Filing Machines together with Polishing Stones and Lapping Ribs with maximum cross section area 13x13 mm or Ø 13 mm. Shank Ø 3,0 mm.

REF

QEA/3

Tool holder

QEA/6

Tool holder for use in the Diprofil Polishing/Filing Machines together with Polishing Stones and Lapping Ribs with maximum cross section area 13x13 mm or Ø 13 mm. Shank Ø 6,0 mm.



REF
QEA/6

Tool holder

VEA



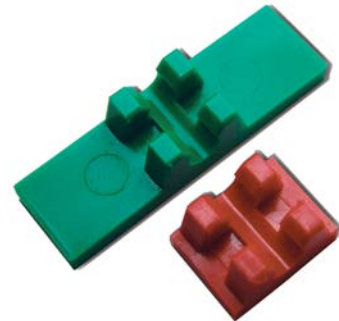
REF
VEA

Plastic shoes / Tool holders

PS...

Plain plastic shoes for making your own special tools adapted to the specific application.

Dimension (mm)	Quantity	REF
12x9x2	10 pcs	PS129
30x9x2	10 pcs	PS309



Toggle Rod

TR-3140

Toggle rod for plastic shoes. Can easily be bent to an angle if required.

Shank Ø 3,5 mm
Length 140 mm



REF
TR3140

Info

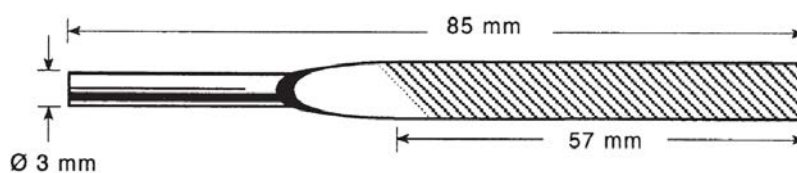
Precision Steel Files



Diprofil precision steel files for use in soft and semi-hard steel as well as other materials of low to medium hardness.

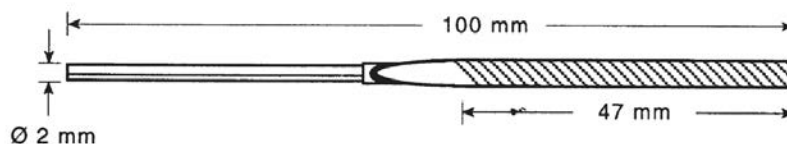
STL...

Steel Files



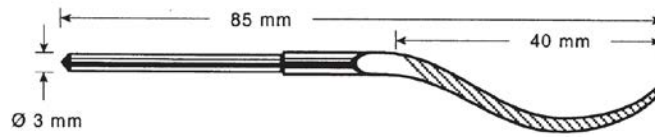
Shape	Size (mm)	REF	
		Medium Cut -00	Fine Cut -1
	5x1,5	STL-1-00/P	STL-1-1/P
	Ø3	STL-2-00/P	STL-2-1/P
	5x2	STL-3-00/P	STL-3-1/P
	5x2	STL-4-00/P	STL-4-1/P
	3,5x3,5x3,5	STL-5-00/P	STL-5-1/P
	2,5x2,5	STL-6-00/P	STL-6-1/P

*5 pieces

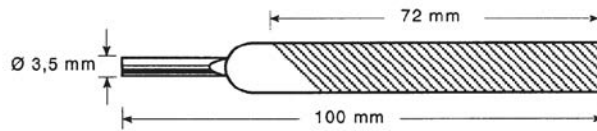


Shape	Size (mm)	REF	
		Medium Cut -00	Fine Cut -1
	3,3x1	STL-21-00/P	STL-21-1/P
	Ø2	STL-22-00/P	STL-22-1/P
	3,2x1,1	STL-23-00/P	STL-23-1/P
	3x1,3	STL-24-00/P	STL-24-1/P
	2,2x2,2x2,2	STL-25-00/P	STL-25-1/P
	1,7x1,7	STL-26-00/P	STL-26-1/P

*5 pieces



Shape	Size (mm)	REF	
		Medium Cut -00	Fine Cut -1
	4x2	STL-11-00/P	STL-11-1/P
	Ø3	STL-12-00/P	STL-12-1/P
	4,7x2,5	STL-14-00/P	STL-14-1/P
	3x3	STL-16-00/P	STL-16-1/P



Shape	Size (mm)	REF	
		Medium Cut -00	Fine Cut -1
	10x2,5	STL-101-00/P	STL-101-1/P

Info

Sets

	REF	Includes	Description
	FXP-SET-L	FXP	See page 291
		CHPMBL2	See page 304
		TPU20220V	See page 306
	FXP-SET-M	FXP	See page 291
		TPU20220V	See page 306
	FXP-SET-S	FXP	See page 291
		DPU3	See page 305
	FXM-SET-L	FXM	See page 291
		CHPMBL2	See page 304
		TPU20220V	See page 306
	FXM-SET-M	FXM	See page 291
		TPU20220V	See page 306
	FXM-SET-S	FXM	See page 291
		DPU3	See page 305
	FMV-SET-S	FMV/D	See page 301
		HPMB1	See page 305
		DPU3	See page 305
	FMR-SET-5S	FMR/D5	See page 297
		HPMB1	See page 305
		DPU3	See page 305
	FMR-SET-10S	FMR/D10	See page 297
		HPMB1	See page 305
		DPU3	See page 305
	FMR-SET-15S	FMR/D15	See page 297
		HPMB1	See page 305
		DPU3	See page 305
	DPU-SET-S	DPU3	See page 305
		CHPMB1	See page 305



Other Files



N ...

Swiss needle-point files



cut 1 = coarse - cut 2 = middle - cut 3 = fine

Total length: 160 mm
Shank-Ø: 3 mm
Material: Steel

	REF	Cut	Cut arrangement
	N011160	1	
	N012160	2	
	N013160	3	
	N021160	1	
	N022160	2	
	N023160	3	
	N031160	1	
	N032160	2	
	N033160	3	
	N051160	1	
	N052160	2	
	N053160	3	
	N071160	1	
	N072160	2	
	N073160	3	
	N081160	1	
	N082160	2	
	N083160	3	
	N101160	1	
	N102160	2	
	N103160	3	
	N111160	1	
	N112160	2	
	N113160	3	

R ...

Vallorbe®, Riffler files



cut 1 = coarse - cut 2 = middle - cut 3 = fine

Total length: 150 mm
Material: Steel

	REF	Cut	Cut arrangement
	R002150	2	
	R004150	4	
	R012150	2	
	R014150	4	
	R022150	2	
	R024150	4	
	R102150	2	
	R104150	4	
	R112150	2	
	R114150	4	
	R122150	2	
	R124150	4	

Vallorbe®, Riffler files

R ...

Total length: 150 mm
Material: Steel



cut 1 = coarse - cut 2 = middle - cut 3 = fine

	REF	Cut	Cut arrangement
	R132150	2	
	R134150	4	
	R142150	2	
	R144150	4	
	R152150	2	
	R154150	4	
	R162150	2	
	R164150	4	
	R172150	2	
	R174150	4	
	R182150	2	
	R184150	4	
	R202150	2	
	R204150	4	
	R302150	2	
	R304150	4	
	R312150	2	
	R314150	4	
	R 40	2	
	R 40	4	
	R 41	2	
	R 41	4	
	R 42	2	
	R 42	4	
	R 43	2	
	R 43	4	
	R 51	2	
	R 51	4	
	R 52	2	
	R 52	4	
	R 55	2	
	R 55	4	
	R 61	2	
	R 61	4	
	R 62	2	
	R 62	4	
	R 63	2	
	R 63	4	
	R 65	2	
	R 65	4	
	R 70	2	
	R 70	4	

R ...

Vallorbe®, Riffler files



cut 1 = coarse - cut 2 = middle - cut 3 = fine



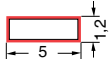

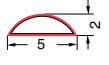


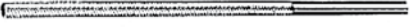



Total length: 150 mm
Material: Steel

	REF	Cut	Cut arrangement
	R 71	2	
	R 71	4	
	R 72	2	
	R 72	4	
	R 73	2	
	R 73	4	
	R742150	2	
	R744150	4	
	R802150	2	
	R804150	4	
	R812150	2	
	R814150	4	
	R822150	2	
	R824150	4	
	R832150	2	
	R834150	4	
	R842150	2	
	R844150	4	
	R852150	2	
	R854150	4	
	R862150	2	
	R864150	4	
	R872150	2	
	R874150	4	
	R882150	2	
	R884150	4	
	R962150	2	
	R964150	4	

Files for hand operated filing machines

MF 310 ...

Total length: 80 mm
Coating length: 55 mm
Shank Ø: 3 mm
Material: Steel

	REF		Coating
	MF3101125	5	
	MF3102205	5	
	MF310330	5	
	MF310430	5	
	MF310526	5	

Diamond needle-point files, electro-bonded

F 2111 - F 2116

Includes:

- F 2111: Set of 5 diamond hand files, one of each F 2112 - F 2132 - F 2142 - F 2152 -
- F 2162
- F 2116: Set of 6 diamond hand files, one of each F 2112 - F 2122 - F 2132 - F 2142 -
- F 2152 - F 2162



REF	Grain
F2111D091	D 91
F2111D126	D 126
F2111D181	D 181

F 21 ...

Diamond needle-point files, electro-bonded

Features:
Total length: 140 mm
Shank- Ø: 3 mm
Coating length: 70 mm

	REF	Grain	Coating
	F2112D091	D 091	
	F2112D126	D 126	
	F2112D181	D 181	
	F2122D091	D 091	
	F2122D126	D 126	
	F2122D181	D 181	
	F2132D091	D 091	
	F2132D126	D 126	
	F2132D181	D 181	
	F2142D091	D 091	
	F2142D126	D 126	
	F2142D181	D 181	
	F2152D091	D 091	
	F2152D126	D 126	
	F2152D181	D 181	
	F2162D091	D 091	
	F2162D126	D 126	
	F2162D181	D 181	
	F2172D091	D 091	
	F2172D126	D 126	
	F2172D181	D 181	
	F2182D091	D 091	
	F2182D126	D 126	
	F2182D181	D 181	
	F2192D091	D 091	
	F2192D126	D 126	
	F2192D181	D 181	
	F2102D091	D 091	
	F2102D126	D 126	
	F2102D181	D 181	

F 126

Diamond files with grip, electro-bonded, set



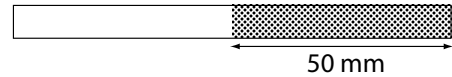
Includes:
Set of 5 diamond files with grip.
F 120, F 121, F 122, F 123, F 124

REF	Grain
F126D091	D091
F126D126	D126
F126D181	D181

Micro-diamond files, conical

ZF 9 ...

Total length: 100 mm



	REF	Grain	Coating
	ZF90D054	D054	
	ZF90D064	D064	
	ZF90D076	D076	
	ZF90D091	D091	
	ZF90D107	D107	
	ZF90D126	D126	
	ZF91D054	D054	
	ZF91D064	D064	
	ZF91D076	D076	
	ZF91D091	D091	
	ZF91D107	D107	
	ZF91D126	D126	
	ZF92D054	D054	
	ZF92D064	D064	
	ZF92D076	D076	
	ZF92D091	D091	
	ZF92D107	D107	
	ZF92D126	D126	
	ZF93D054	D054	
	ZF93D064	D064	
	ZF93D076	D076	
	ZF93D091	D091	
	ZF93D107	D107	
	ZF93D126	D126	
	ZF94D054	D054	
	ZF94D064	D064	
	ZF94D076	D076	
	ZF94D091	D091	
	ZF94D107	D107	
	ZF94D126	D126	
	ZF995D054	D054	Set of micro-diamond files = 5 p.
	ZF995D064	D064	
	ZF995D076	D076	
	ZF995D091	D091	
	ZF995D107	D107	
	ZF995D126	D126	

Diamond files, conical, electro-bonded, set

KD 1600

Includes:

Set of 10 conical diamond files.

- 2x KD 1602 D 126
- 2x KD 1602 D 64
- 2x KD 1603 D 64
- 1x KD 1601 D 64
- 1x KD 1602 D 54
- 1x KD 1604 D 64
- 1x KD 1604 D 54



REF

KD1600

KD 160 ...

Diamond files, conical, electro-bonded

Total length: 170 mm
 Thickness: 0,5-2,0 mm conical
 Coating length: 110 mm

	REF	Grain	a / a ₁
	KD1601D054	D054	3 / 2
	KD1601D064	D064	
	KD1601D126	D126	
	KD1602D054	D054	4 / 3
	KD1602D064	D064	
	KD1602D126	D126	
	KD1602D181	D181	
	KD1603D054	D054	6 / 6
	KD1603D064	D064	
	KD1603D126	D126	
	KD1603D181	D181	
	KD1604D054	D054	8 / 8
	KD1604D064	D064	
	KD1604D126	D126	
	KD1604D181	D181	

F 12 ...

Diamond files with grip, electro-bonded

Total length: 215 mm
 Coating length: 100 mm

	REF	Grain	Coating
	F120D091	D091	
	F120D126	D126	
	F120D181	D181	
	F121D091	D091	
	F121D126	D126	
	F121D181	D181	
	F122D091	D091	
	F122D126	D126	
	F122D181	D181	
	F123D091	D091	
	F123D126	D126	
	F123D181	D181	
	F124D091	D091	
	F124D126	D126	
	F124D181	D181	

Diamond riffler files, electro-bonded

DR ...

Total length: 150 mm
Coating length on both sides: 25 mm



	REF	Grain	Coating
	DR15D091	D091	
	DR15D126	D126	
	DR15D181	D181	
	DR16D091	D091	
	DR16D126	D126	
	DR16D181	D181	
	DR18D091	D091	
	DR18D126	D126	
	DR18D181	D181	
	DR20D091	D091	
	DR20D126	D126	
	DR20D181	D181	
	DR22D091	D091	
	DR22D126	D126	
	DR22D181	D181	
	DR24D091	D091	
	DR24D126	D126	
	DR24D181	D181	

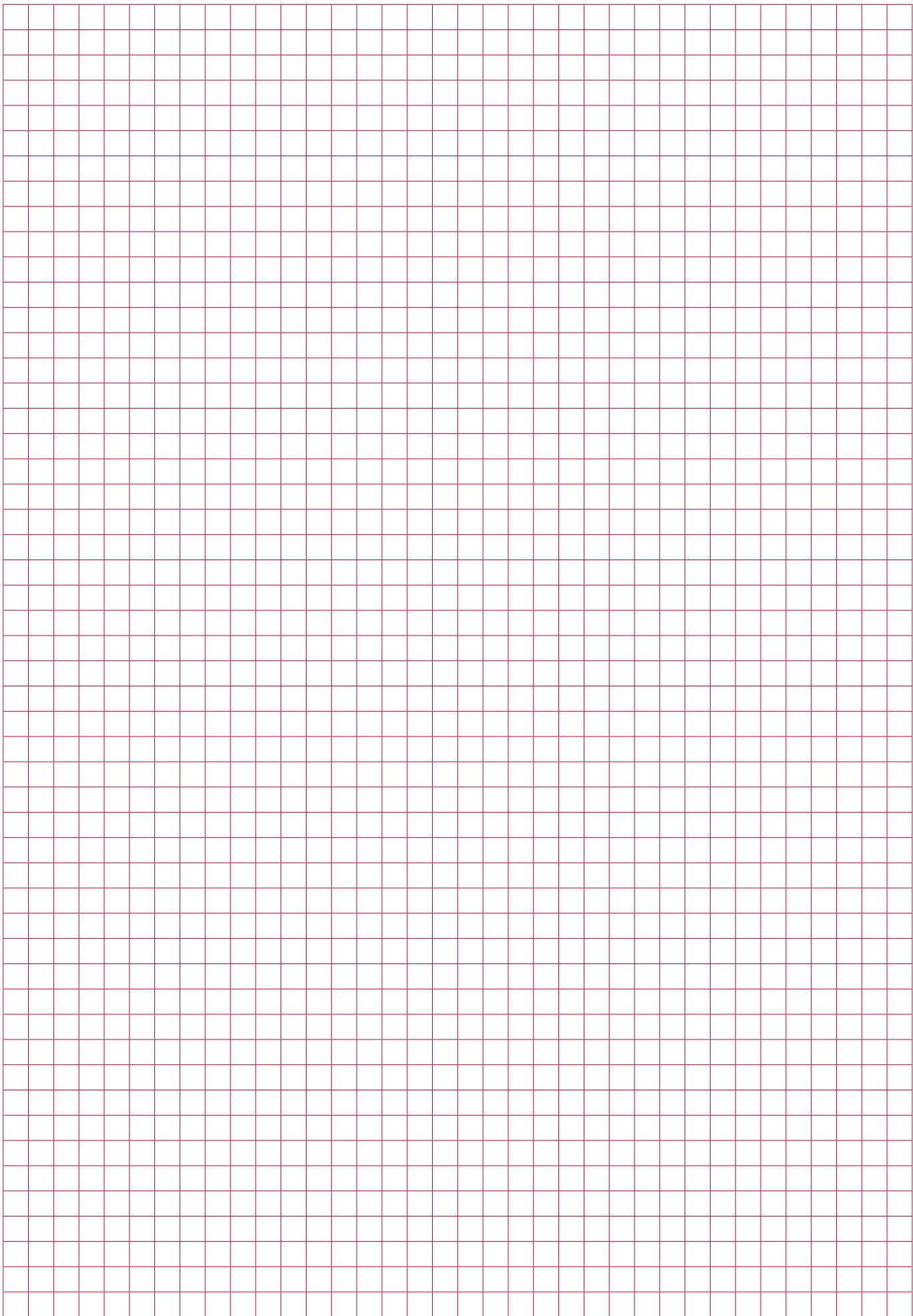
Escapement diamond files, electro-bonded

H ...

Total length: 140 mm
Coating length: 41 mm

	REF	Grain	Coating
	H609D091	D091	
	H609D126	D126	
	H610D091	D091	
	H610D126	D126	
	H611D091	D091	
	H611D126	D126	
	H614D091	D091	
	H614D126	D126	
	H617D091	D091	
	H617D126	D126	
	H619D091	D091	
	H619D126	D126	
	H621D091	D091	
	H621D126	D126	

26/06/2017 CAD reference point





Stones



		PT 250	PT 450	PT 470	PT 550	PT 600	PT 650	PT 700	PT 750	PT 850	PT 880	PT 900
Material	Tool steel											
	Aluminium											
	Non-ferro											
	High grade tool steel											
	Spark eroding structure											
Application	0 = Finish machining	2-5	1-3	1-5	2-5	2-5	0-5	3-5	0-5	0-5	0-5	0
	5 = Pre-machining											
	High gloss finish											
Wear	0 = Slow	3	3	4	2	3	4	3	1	4	3	5
	5 = Fast											
Stock Removal	0 = Slow	4	4	4	4	4	5	4	4	5	4	1
	5 = Fast											
Bonding hardness	0 = Soft	3	3	3	4	3	2	3	5	2	3	0
	5 = Hard											
Method	Hand operation											
	Filing hand piece											
	Ultra sonic											
Application	Dry											
	Wet											
Treated	Resin bonded											
	Oil											
	Special											
	Sulphur											

To avoid build-ups and resulting cracks it is recommended to always use a suitable cutting fluid or cutting oil (BL 10/ WK 35) when applying polishing stones with grain size (320), 400, 600 or 900. In this way a blunting of the bond will be avoided and a constant resharping of the cutting grains is guaranteed.

Polishing stones


PT 250 ...

Features:

- Total length = 150 mm
- Abrasive material: Aluminium Oxide
- Color: yellow
- A special very hard, sulphured stone for the machining of eroded surfaces.
- We recommend to apply cutting fluid or cutting oil when using fine grain stones, coarse grain stones can be used in a dry state.



Order example for first item (REF + Grain): **PT2500313120**

REF	Grain						Dimensions (mm)	
	120	150	180	320	400	600		
PT2500313							3 x 13	12
PT2500606							6 x 6	
PT2500613							6 x 13	
PT2501010							10 x 10	
PT2501313							13 x 13	
PT2501520							15 x 20	6
PT2502025							20 x 25	4

Polishing stones


PT 450 ...

Features:

- Total length = 150 mm
- Abrasive material: Aluminium Oxide
- Color: white
- Medium-hard stone for general polishing tasks on sectional steels.
- Machining of all grades of steel by hand and by filing machine.
- For coarse grain size, use in dry state.
- For fine grain size, use cutting fluid or diluent.
- Special stone for sectional or die steels.



Order example for first item (REF + Grain): **PT4500306220**

REF	Grain				Dimensions (mm)	
	220	320	400	600		
PT4500306					3 x 6	12
PT4500313					3 x 13	
PT4500606					6 x 6	
PT4500613					6 x 13	
PT4501313					13 x 13	
PT4501325					13 x 25	6

PT 470 ...

Polishing Stones



Features:

- Total length = 150 mm
- Abrasive material: Aluminium Oxide
- Color: white
- Medium hard, especially treated stone for the processing of Aluminium.
- Fast removal of material is achieved due to high cutting efficiency.
- It leaves no scratches or damage on the surface.
- The use of lapping- and polishing oil is recommended

Order example for first item (REF + Grain): **PT4700306150**

REF	Grain					Dimensions (mm)	
	150	220	320	400	600		
PT4700306						3 x 6	12
PT4700313						3 x 13	
PT4700606						6 x 6	
PT4700613						6 x 13	

PT 550 ...

Polishing Stones



Features:

- Total length = 150 mm
- Abrasive material: Aluminium Oxide
- Color: dark brown
- Profile-stable special stone for the removal of the surface left by EDM.
- The high cutting capacity ensures fast removal of material.
- Suitable for machining by hand, with a filing machine and in particular with ultrasonic polishing machines.
- The use of an oil-free lubricant is recommended.

Order example for first item (REF + Grain): **PT5500303220**

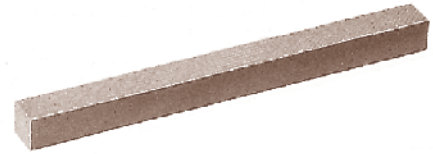
REF	Grain									Dimensions (mm)	
	100	120	150	180	220	280	320	400	600		
PT5500303										3 x 3	12
PT5500306										3 x 6	
PT5500313										3 x 13	
PT5500606										6 x 6	
PT5500613										6 x 13	
PT5501010										10 x 10	

Polishing stones

PT 600 ...

Features:

- Total length = 150 mm
- Abrasive material: Aluminium Oxide
- Color: dark brown
- A semi-hard adaptable stone for the removal of EDM surface.
- Because of its softer bonding it is in particular suitable for polishing by hand.
- The use of an oil-alcohol lubricant is recommended.



Order example for first item (REF + Grain): **PT6000306100**

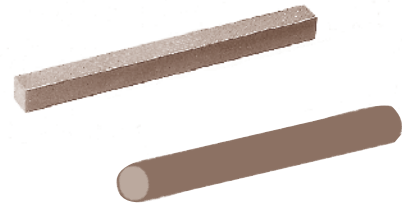
REF	Grain									Dimensions (mm)	
	100	120	150	180	220	280	320	400	600		
PT6000306										3 x 6	12
PT6000313										3 x 13	
PT6000606										6 x 6	
PT6000613										6 x 13	

Polishing stones

PT 650 ...

Features:

- Total length = 150 mm
- Abrasive material: Aluminium Oxide
- Color: brown
- A semi-hard to soft stone, for hand polishing.
- For hand filing devices.
- Produces a soft finish and wears off in a very even way.
- Especially suitable for contoured surfaces due to ideal adaptability, for non-ferrous metals and chromium-nickel steels.

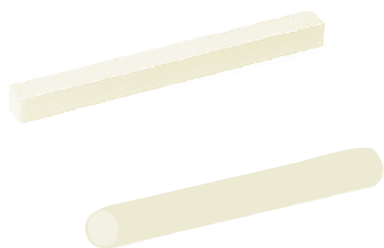


Order example for first item (REF + Grain): **PT6500306100**

REF	Grain									Dimensions (mm)	
	100	150	180	220	280	320	400	600	900		
PT6500306										6 x 6	12
PT6500313										3 x 13	
PT6500606										6 x 6	
PT6500613										6 x 13	
PT6500620										6 x 20	
PT6501010										10 x 10	
PT6501325										13 x 25	6
PT65006										Ø 6 R	
PT65010										Ø 10 R	

PT 700 ...

Polishing Stones



Features:

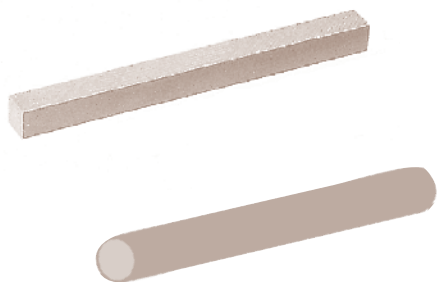
- Total length = 150 mm
- Abrasive material: Aluminium Oxide
- Color: cream-coloured/ivory white
- A hard porous stone for all polishing tasks.
- Treatment with a special oil prevents loading.
- The use of an oil-alcohol lubricant is recommended.

Order example for first item (REF + Grain): **PT7000306120**

REF + Grain	Grain						Dimensions (mm)	
	120	150	220	320	400	600		
PT7000306							3 x 6	12
PT7000313							3 x 13	
PT7000606							6 x 6	
PT7000613							6 x 13	
PT7001010							10 x 10	
PT7001325							13 x 25	6
PT7000615							R Ø 6	

PT 750 ...

Polishing Stones



Features:

- Total length = 150 mm
- Abrasive material: Aluminium Oxide, resin bonded
- Color: light brown
- A hard, resin-bonded stone with high strength against fracture, high shape consistency and cutting efficiency.
- Resin bonding causes a buffer effect between the grains.
- A better finish, considering the respective grain size in connection with the hard bonding.
- Hand operation and in hand filing devices
- For removal of EDM-layers.

Order example for first item (REF + Grain): **PT7500306120**

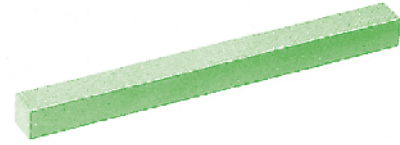
REF + Grain	Grain						Dimensions (mm)	
	120	180	220	280	320	400		
PT7500306							3 x 6	12
PT7500606							6 x 6	
PT7500613							6 x 13	
PT75006							R Ø 6	6

Polishing stones

PT 850 ...

Features:

- Total length = 150 mm
- Abrasive material: Silicon carbide
- Color: green
- A soft-bonded, porous stone with high cutting efficiency and soft finish.
- Hand operation or application in hand filing devices.
- For machining of contoured surfaces, the stone adapts very quickly because of its soft bonding.
- For removal of EDM-layers.



Order example for first item (REF + Grain): **PT8500306120**

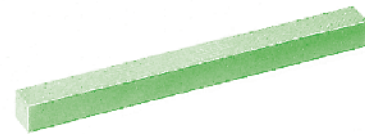
REF + Grain	Grain						Dimensions (mm)	
	120	150	220	320	400	600		
PT8500306							3 x 6	12
PT8500313							3 x 13	
PT8500606							6 x 6	
PT8500613							6 x 13	
PT8501010							10 x 10	
PT8501313							13 x 13	
PT8501325							13 x 25	

Polishing Stones

PT 880 ...

Features:

- Total length = 150 mm
- Abrasive material: Silicon carbide
- Color: green
- Slightly harder bonding material than PT 850.
- Special stone for the removal of the residue left by ESM on cut and sectional steels.
- Particularily suitable for the treatment of hardened steels, punches, dies, steel castings and hot-working steels of HRC 47-63 and harder.
- The use of an oil-alcohol lubricant is recommended.



Order example for first item (REF + Grain): **PT8800404150**

REF + Grain	Grain						Dimensions (mm)	
	120	150	220	320	400	600		
PT8800404							4 x 4	12
PT8800306							3 x 6	
PT8800313							3 x 13	
PT8800606							6 x 6	
PT8800613							6 x 13	
PT8801010							10 x 10	
PT8801313							13 x 13	
PT8801325							13 x 25	

PT 900 ...

Polishing stones



Features:

- Total length = 150 mm
- Abrasive material: Levigated Alumina
- Color: white
- It is a very soft-bonded stone, which does not get blunt.
- A very uniform, soft polished section will be achieved.
- Further polishing with diamond paste of grain size 6 or 3 μm will result in high gloss finish.
- Advantageously used at the beginning of minor polishing repairs, operated by hand and using a suitable cutting oil.

REF	Grain	
PT9000306900	900	12
PT9000313900		
PT9000606900		
PT9000613900		

PT

Sample kit



Set of 8 different types
Dimension : 6x13x 150 mm

Includes:

- PT250 Grain 400
- PT250 Grain 220
- PT450 Grain 220 SE
- PT450 Grain 400 SE
- PT650 Grain 220
- PT650 Grain 400
- PT850 Grain 220
- PT850 Grain 400

REF
PT


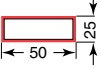




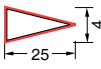
Grinding stones

AZ ...

Features:

- Oil treated industrial sharpening stones, used for deburring, sharpening and honing.
- Available in coarse (120 grit), medium (220 grit), and fine (320 grit).
- Abrasive material: Aluminium Oxide



REF	Grain	Total length		Shape
AZ015	120	150	1	
AZ040	220			
AZ065	320			
AZ255	120	100	12	
AZ290	220			
AZ325	320	100	12	
AZ465	120			
AZ500	220			
AZ535	320	100	12	
AZ669	120			
AZ683	220			
AZ697	320	100	12	
AZ747	120			
AZ754	220			
AZ761	320	100	12	
AZ770	120			
AZ775	220			
AZ780	320			



Application

Ceramic stones are used for surface finishing of molds. They are also excellently applicable for grinding and polishing of alloyed and non-alloyed tool steels, cast iron, various alloy metals, copper, aluminium, silicon, magnetic materials, stones, plastics, etc.

Shape

Ceramic grinding stones are of either round or rectangular cross-section.
Lengths: 40 mm, 100 mm, 150 mm

Material

Ceramic stones are made of a new composite material comprised of long fine ceramic fibres and thermo-setting resin. The abrasive ceramic fibres always come out frontally.

Advantages

- excellent grinding performance
- long life
- highly stable properties
- nearly unbreakable (flexible)
- uniform surface finishing work
- easily profileable

Handling

The surface finishing work is done either manually, or with high-frequency grinding and filing handpieces, or with ultrasonic lap and polishing machines. In the field of high-frequency hand operated machines we recommend our power pack PA 480, PA 240 combined with LA 051 for round ceramic stones or connected to filing handpieces RE 35, RE 55.

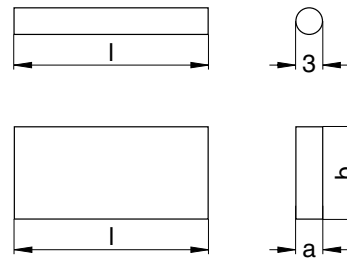
Due to their high rigidity shorter dimension of ceramic stones are excellently suited for the ultrasonic surface finishing work. In this application machines like UF 2600 or UF 5600 are connected with handpiece UF 9700.

Using this equipment we recommend using ceramic stones at an angle of about 45° between workpiece surface and handpiece. The stones are fixed with adaptors in the handpiece.

Due to their highly stable properties and extremely long life ceramic stones are also used as carriers for diamond pastes when fine and ultra-fine polishing work is necessary for thin break-throughs, cavities and slits. In this case ceramic grinding stones are used parallel to the workpiece surface.

New super stones


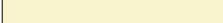





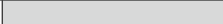







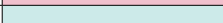









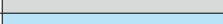















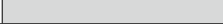







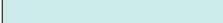

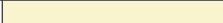





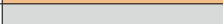

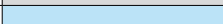





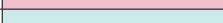

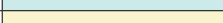

















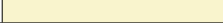













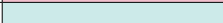









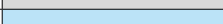





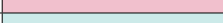


NS ...



REF	Grain	Shape	Color	a x b	l
NSE0501L	120	□	Light Blue	0,5 x 1	150
NSG0501L	180	□	Yellow	0,5 x 1	150
NSL0501L	300	□	Brown	0,5 x 1	150
NSO0501L	400	□	Orange	0,5 x 1	150
NSP0501L	600	□	Grey	0,5 x 1	150
NSB0501L	800	□	Light Blue	0,5 x 1	150
NSW0501L	1000	□	White	0,5 x 1	150
NSR0501L	1200	□	Pink	0,5 x 1	150
NSE052L	120	□	Light Blue	0,5 x 2	150
NSG052L	180	□	Yellow	0,5 x 2	150
NSL052L	300	□	Brown	0,5 x 2	150
NSO052L	400	□	Orange	0,5 x 2	150
NSP052L	600	□	Grey	0,5 x 2	150
NSB052L	800	□	Light Blue	0,5 x 2	150
NSW052L	1000	□	White	0,5 x 2	150
NSR052L	1200	□	Pink	0,5 x 2	150
NSE054L	120	□	Light Blue	0,5 x 4	150
NSG054L	180	□	Yellow	0,5 x 4	150
NSL054L	300	□	Brown	0,5 x 4	150
NSO054L	400	□	Orange	0,5 x 4	150
NSP054L	600	□	Grey	0,5 x 4	150
NSB054L	800	□	Light Blue	0,5 x 4	150
NSW054L	1000	□	White	0,5 x 4	150
NSR054L	1200	□	Pink	0,5 x 4	150
NSE056L	120	□	Light Blue	0,5 x 6	150
NSG056L	180	□	Yellow	0,5 x 6	150
NSL056L	300	□	Brown	0,5 x 6	150
NSO056L	400	□	Orange	0,5 x 6	150
NSP056L	600	□	Grey	0,5 x 6	150
NSB056L	800	□	Light Blue	0,5 x 6	150
NSW056L	1000	□	White	0,5 x 6	150
NSR056L	1200	□	Pink	0,5 x 6	150
NSE051L	120	□	Light Blue	0,5 x 10	150
NSG051L	180	□	Yellow	0,5 x 10	150
NSL051L	300	□	Brown	0,5 x 10	150
NSO051L	400	□	Orange	0,5 x 10	150
NSP051L	600	□	Grey	0,5 x 10	150
NSB051L	800	□	Light Blue	0,5 x 10	150
NSW051L	1000	□	White	0,5 x 10	150
NS051L	1200	□	Pink	0,5 x 10	150
NSE801L	120	□	Light Blue	0,8 x 1	150
NSG801L	180	□	Yellow	0,8 x 1	150
NSL801L	300	□	Brown	0,8 x 1	150
NSO801L	400	□	Orange	0,8 x 1	150
NSP801L	600	□	Grey	0,8 x 1	150
NSB801L	800	□	Light Blue	0,8 x 1	150
NSW801L	1000	□	White	0,8 x 1	150
NSR801L	1200	□	Pink	0,8 x 1	150
NSE082L	120	□	Light Blue	0,8 x 2	150

NS ...

New super stones

REF	Grain	Shape	Color	a x b	l
NSG082L	180			0,8 x 2	150
NSL082L	300			0,8 x 2	150
NSO082L	400			0,8 x 2	150
NSP082L	600			0,8 x 2	150
NSB082L	800			0,8 x 2	150
NSW082L	1000			0,8 x 2	150
NSR082L	1200			0,8 x 2	150
NSE084L	120			0,8 x 4	150
NSG084L	180			0,8 x 4	150
NSL084L	300			0,8 x 4	150
NSO084L	400			0,8 x 4	150
NSP084L	600			0,8 x 4	150
NSB084L	800			0,8 x 4	150
NSW084L	1000			0,8 x 4	150
NSR084L	1200			0,8 x 4	150
NSE086L	120			0,8 x 6	150
NSG086L	180			0,8 x 6	150
NSL086L	300			0,8 x 6	150
NSO086L	400			0,8 x 6	150
NSP086L	600			0,8 x 6	150
NSB086L	800			0,8 x 6	150
NSW086L	1000			0,8 x 6	150
NSR086L	1200			0,8 x 6	150
NSE081L	120			0,8 x 10	150
NSG81L	180			0,8 x 10	150
NSL81L	300			0,8 x 10	150
NSO81L	400			0,8 x 10	150
NSP81L	600			0,8 x 10	150
NSB81L	800			0,8 x 10	150
NSW81L	1000			0,8 x 10	150
NSR81L	1200			0,8 x 10	150
NSE101L	120			1,0 x 1	150
NSG101L	180			1,0 x 1	150
NSL101L	300			1,0 x 1	150
NSO101L	400			1,0 x 1	150
NSP101L	600			1,0 x 1	150
NSB101L	800			1,0 x 1	150
NSW101L	1000			1,0 x 1	150
NSR101L	1200			1,0 x 1	150
NSE102L	120			1,0 x 2	150
NSG102L	180			1,0 x 2	150
NSL102L	300			1,0 x 2	150
NSO102L	400			1,0 x 2	150
NSP102L	600			1,0 x 2	150
NSB102L	800			1,0 x 2	150
NSW102L	1000			1,0 x 2	150
NSR102L	1200			1,0 x 2	150
NSE104L	120			1,0 x 4	150
NSG104L	180			1,0 x 4	150
NSL104L	300			1,0 x 4	150
NSO104L	400			1,0 x 4	150
NSP104L	600			1,0 x 4	150
NSB104L	800			1,0 x 4	150
NSW104L	1000			1,0 x 4	150
NSR104L	1200			1,0 x 4	150
NSE106L	120			1,0 x 6	150
NSG106L	180			1,0 x 6	150
NSL106L	300			1,0 x 6	150
NSO106L	400			1,0 x 6	150

New super stones

NS ...

REF	Grain	Shape	Color	a x b	l
NSP106L	600	□		1,0 x 6	150
NSB106L	800	□		1,0 x 6	150
NSW106L	1000	□		1,0 x 6	150
NSR106L	1200	□		1,0 x 6	150
NSE110L	120	□		1,0 x 10	150
NSG110L	180	□		1,0 x 10	150
NSL110L	300	□		1,0 x 10	150
NSO110L	400	□		1,0 x 10	150
NSP110L	600	□		1,0 x 10	150
NSB110L	800	□		1,0 x 10	150
NSW110L	1000	□		1,0 x 10	150
NSR110L	1200	□		1,0 x 10	150
NSE151L	120	□		1,5 x 1	150
NSG151L	180	□		1,5 x 1	150
NSL151L	300	□		1,5 x 1	150
NSO151L	400	□		1,5 x 1	150
NSP151L	600	□		1,5 x 1	150
NSB151L	800	□		1,5 x 1	150
NSW151L	1000	□		1,5 x 1	150
NSR151L	1200	□		1,5 x 1	150
NSE152L	120	□		1,5 x 2	150
NSG152L	180	□		1,5 x 2	150
NSL152L	300	□		1,5 x 2	150
NSO152L	400	□		1,5 x 2	150
NSP152L	600	□		1,5 x 2	150
NSB152L	800	□		1,5 x 2	150
NSW152L	1000	□		1,5 x 2	150
NSR152L	1200	□		1,5 x 2	150
NSE154L	120	□		1,5 x 4	150
NSG154L	180	□		1,5 x 4	150
NSL154L	300	□		1,5 x 4	150
NSO154L	400	□		1,5 x 4	150
NSP154L	600	□		1,5 x 4	150
NSB154L	800	□		1,5 x 4	150
NSW154L	1000	□		1,5 x 4	150
NSR154L	1200	□		1,5 x 4	150
NSE156L	120	□		1,5 x 6	150
NSG156L	180	□		1,5 x 6	150
NSL156L	300	□		1,5 x 6	150
NSO156L	400	□		1,5 x 6	150
NSP156L	600	□		1,5 x 6	150
NSB156L	800	□		1,5 x 6	150
NSW156L	1000	□		1,5 x 6	150
NSR156L	1200	□		1,5 x 6	150
NSE150L	120	□		1,5 x 10	150
NSG150L	180	□		1,5 x 10	150
NSL150L	300	□		1,5 x 10	150
NSO150L	400	□		1,5 x 10	150
NSP150L	600	□		1,5 x 10	150
NSB150L	800	□		1,5 x 10	150
NSW150L	1000	□		1,5 x 10	150
NSR150L	1200	□		1,5 x 10	150
NSE202L	120	□		2,0 x 2	150
NSG202L	180	□		2,0 x 2	150
NSL202L	300	□		2,0 x 2	150
NSO202L	400	□		2,0 x 2	150
NSP202L	600	□		2,0 x 2	150
NSB202L	800	□		2,0 x 2	150
NSW202L	1000	□		2,0 x 2	150

NS ...

New super stones

REF	Grain	Shape	Color	a x b	l
NSR202L	1200	□	■	2,0 x 2	150
NSE204L	120	□	■	2,0 x 4	150
NSG204L	180	□	■	2,0 x 4	150
NSL204L	300	□	■	2,0 x 4	150
NSO204L	400	□	■	2,0 x 4	150
NSP204L	600	□	■	2,0 x 4	150
NSB204L	800	□	■	2,0 x 4	150
NSW204L	1000	□	■	2,0 x 4	150
NSR204L	1200	□	■	2,0 x 4	150
NSE206L	120	□	■	2,0 x 6	150
SG206L	180	□	■	2,0 x 6	150
NSL206L	300	□	■	2,0 x 6	150
NSO206L	400	□	■	2,0 x 6	150
NSP206L	600	□	■	2,0 x 6	150
NSB206L	800	□	■	2,0 x 6	150
NSW206L	1000	□	■	2,0 x 6	150
NSR206L	1200	□	■	2,0 x 6	150
NSE210L	120	□	■	2,0 x 10	150
NSG210L	180	□	■	2,0 x 10	150
NSL210L	300	□	■	2,0 x 10	150
NSO210L	400	□	■	2,0 x 10	150
NSP210L	600	□	■	2,0 x 10	150
NSB210L	800	□	■	2,0 x 10	150
NSW210L	1000	□	■	2,0 x 10	150
NSR210L	1200	□	■	2,0 x 10	150
NSE301L	120	□	■	3,0 x 1	150
NSG301L	180	□	■	3,0 x 1	150
NSL301L	300	□	■	3,0 x 1	150
NSO301L	400	□	■	3,0 x 1	150
NSP301L	600	□	■	3,0 x 1	150
NSB301L	800	□	■	3,0 x 1	150
NSW301L	1000	□	■	3,0 x 1	150
NSR301L	1200	□	■	3,0 x 1	150
NSE302L	120	□	■	3,0 x 2	150
NSG302L	180	□	■	3,0 x 2	150
NSL302L	300	□	■	3,0 x 2	150
NSO302L	400	□	■	3,0 x 2	150
NSP302L	600	□	■	3,0 x 2	150
NSB302L	800	□	■	3,0 x 2	150
NSW302L	1000	□	■	3,0 x 2	150
NSR302L	1200	□	■	3,0 x 2	150
NSE304L	120	□	■	3,0 x 4	150
NSG304L	180	□	■	3,0 x 4	150
NSL304L	300	□	■	3,0 x 4	150
NSO304L	400	□	■	3,0 x 4	150
NSP304L	600	□	■	3,0 x 4	150
NSB304L	800	□	■	3,0 x 4	150
NSW304L	1000	□	■	3,0 x 4	150
NSR304L	1200	□	■	3,0 x 4	150
NSE306L	120	□	■	3,0 x 6	150
NSG306L	180	□	■	3,0 x 6	150
NSL306L	300	□	■	3,0 x 6	150
NSO306L	400	□	■	3,0 x 6	150
NSP306L	600	□	■	3,0 x 6	150
NSB306L	800	□	■	3,0 x 6	150
NSW306L	1000	□	■	3,0 x 6	150
NSR306L	1200	□	■	3,0 x 6	150
NSE310L	120	□	■	3,0 x 10	150
NSG310L	180	□	■	3,0 x 10	150








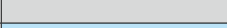







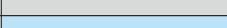



New super stones

NS ...

REF	Grain	Shape	Color	a x b	l
NSL310L	300	□		3,0 x 10	150
NSO310L	400	□		3,0 x 10	150
NSP310L	600	□		3,0 x 10	150
NSB310L	800	□		3,0 x 10	150
NSW310L	1000	□		3,0 x 10	150
NSR310L	1200	□		3,0 x 10	150
NSED23A	120	○		2,35	50
NSGD23A	180	○		2,35	50
NSLD23A	300	○		2,35	50
NSOD23A	400	○		2,35	50
NSPD23A	600	○		2,35	50
NSBD23A	800	○		2,35	50
NSWD23A	1000	○		2,35	50
NSRD23A	1200	○		2,35	50
NSE D23B	120	○		2,35	100
NSGD23B	180	○		2,35	100
NSLD23B	300	○		2,35	100
NSOD23B	400	○		2,35	100
NSPD23B	600	○		2,35	100
NSBD23B	800	○		2,35	100
NSWD23B	1000	○		2,35	100
NSRD23B	1200	○		2,35	100
NSED23L	120	○		2,35	150
NSGD23L	180	○		2,35	150
NSLD23L	300	○		2,35	150
NSOD23L	400	○		2,35	150
NSPD23L	600	○		2,35	150
NSBD23L	800	○		2,35	150
NSWD23L	1000	○		2,35	150
NSRD23L	1200	○		2,35	150
NSED3A	120	○		3,0	50
NSGD3A	180	○		3,0	50
NSLD3A	300	○		3,0	50
NSOD3A	400	○		3,0	50
NSPD3A	600	○		3,0	50
NSBD3A	800	○		3,0	50
NSWD3A	1000	○		3,0	50
NSRD3A	1200	○		3,0	50
NSED3B	120	○		3,0	100
NSGD3B	180	○		3,0	100
NSLD3B	300	○		3,0	100
NSOD3B	400	○		3,0	100
NSPD3B	600	○		3,0	100
NSBD3B	800	○		3,0	100
NSWD3B	1000	○		3,0	100
NSRD3B	1200	○		3,0	100
NSED3L	120	○		3,0	150
NSGD3L	180	○		3,0	150
NSL D3L	300	○		3,0	150
NSO D3L	400	○		3,0	150
NSP D3L	600	○		3,0	150
NSB D3L	800	○		3,0	150
NSW D3L	1000	○		3,0	150
NSR D3L	1200	○		3,0	150
NSED1A	120	○		3,175	50
NSGD1A	180	○		3,175	50
NSLD1A	300	○		3,175	50
NSOD1A	400	○		3,175	50
NSPD1A	600	○		3,175	50

NS ...

New super stones

REF	Grain	Shape	Color	a x b	l
NSBD1A	800	○		3,175	50
NSWD1A	1000	○		3,175	50
NSRD1A	1200	○		3,175	50
NSD1B	120	○		3,175	100
NSGD1B	180	○		3,175	100
NSLD1B	300	○		3,175	100
NSOD1B	400	○		3,175	100
NSPD1B	600	○		3,175	100
NSBD1B	800	○		3,175	100
NSWD1B	1000	○		3,175	100
NSRD1B	1200	○		3,175	100
NSD1L	120	○		3,175	150
NSGD1L	180	○		3,175	150
NSLD1L	300	○		3,175	150
NSOD1L	400	○		3,175	150
NSPD1L	600	○		3,175	150
NSBD1L	800	○		3,175	150
NSWD1L	1000	○		3,175	150
NSRD1L	1200	○		3,175	150

Info

Super diamond stones

Application

Super diamond stones SDS are used for surface finishing of moulds. They are also excellently applicable for grinding and polishing of alloyed and non-alloyed tool steels, cast iron, various alloy metals, copper, aluminium, silicon, magnetic materials, stones, plastics, etc.

Shape

SDS stones are of either round or rectangular cross-section.
Lengths: 50 mm, 100 mm

Material

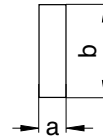
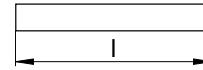
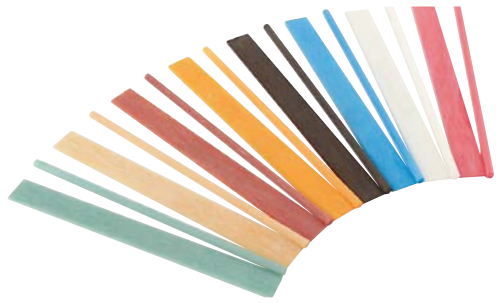
SDS stones are made of a new composite material comprised of long fine ceramic fibres. Diamond grains in different layers are bonded in epoxy resin.

Advantages

- excellent grinding performance
- long life
- highly stable properties
- nearly unbreakable (flexible)
- uniform surface finishing work
- easily profileable

Super diamond stones

SDS ...



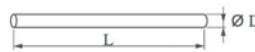
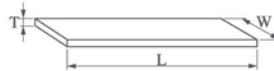
REF	Grain	Shape	a x b	l
SDS142	200	l flat	1,0 x 4	100
SDS144	400	l flat	1,0 x 4	100
SDS146	600	l flat	1,0 x 4	100
SDS162	200	l flat	1,0 x 6	100
SDS164	400	l flat	1,0 x 6	100
SDS166	600	l flat	1,0 x 6	100
SDS112	200	l flat	1,0 x 10	100
SDS114	400	l flat	1,0 x 10	100
SDS116	600	l flat	1,0 x 10	100
			Ø	
SDS32A	200	l round	3,0	50
SDS34A	400	l round	3,0	50
SDS36A	600	l round	3,0	50
SDS32B	200	l round	3,0	100
SDS34B	400	l round	3,0	100
SDS36B	600	l round	3,0	100

Crystal Fiber Stone Cristone®

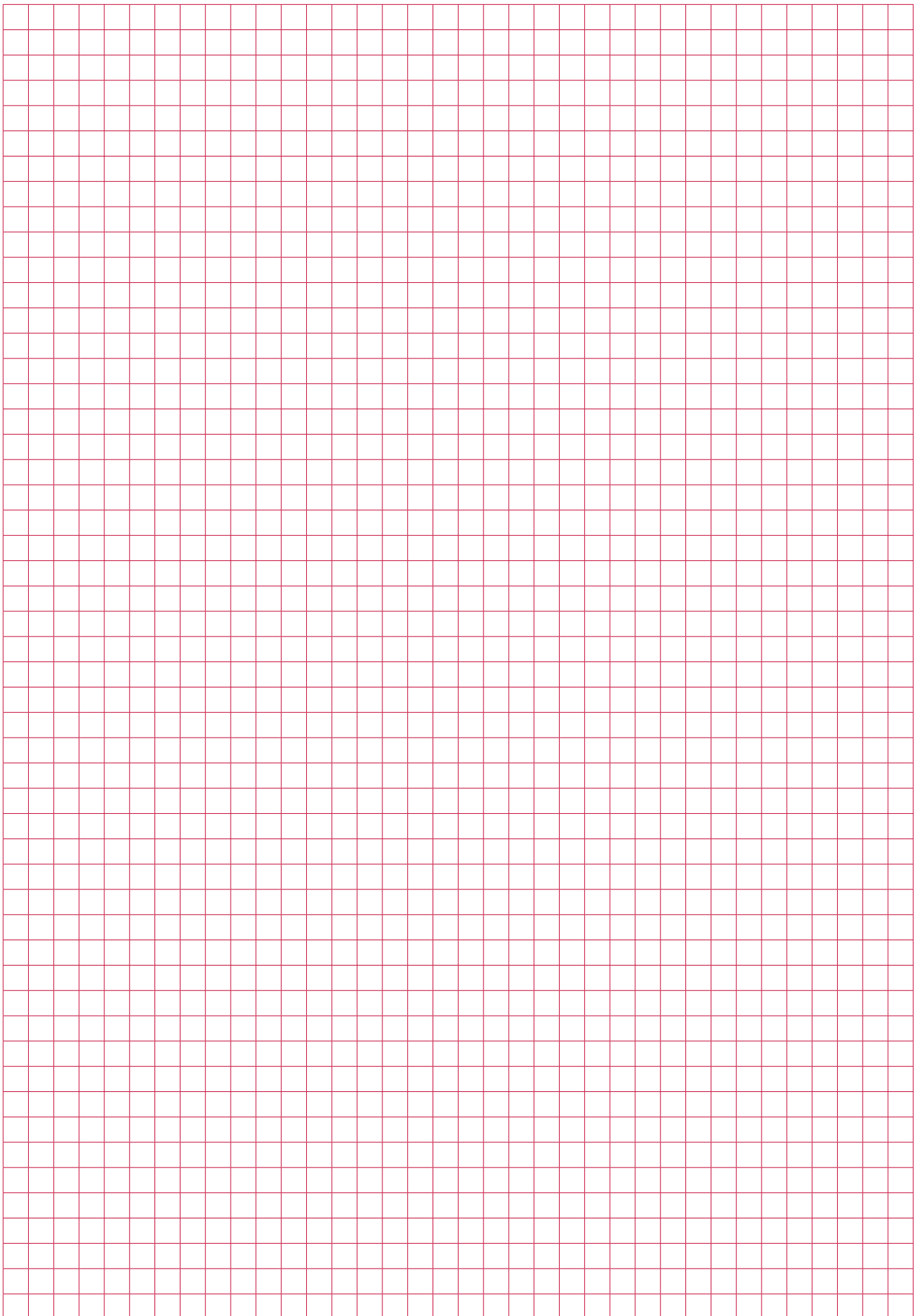
JR...

Made with the highest quality, chemically produced crystal fibers. The crystalline structure of the crystal fibers offers high polishing efficiency and incredible bending strength. These are the perfect stones for detail polishing.

Prices upon request.



Size TxWxL (ØDxL)	#150 ● 40µ	#200 ● 36µ	#400 ● 30µ	#600 ● 20µ	#800 ● 15µ	#1000 ● 10µ	Tool holder
1x2x100	JR150-0102100	JR200-0102100	JR400-0102100	JR600-0102100	JR800-0102100	JR1000-0102100	SSH2
1x4x100	JR150-0104100	JR200-0104100	JR400-0104100	JR600-0104100	JR800-0104100	JR1000-0104100	SSH4
1x6x100	JR150-0106100	JR200-0106100	JR400-0106100	JR600-0106100	JR800-0106100	JR1000-0106100	SSH6
1x10x100	JR150-0110100	JR200-0110100	JR400-0110100	JR600-0110100	JR800-0110100	JR1000-0110100	SSH10
1x13x100	JR150-0113100	JR200-0113100	JR400-0113100	JR600-0113100	JR800-0113100	JR1000-0113100	
Ø3x50	JR150-030050	JR200-030050	JR400-030050	JR600-030050	JR800-030050	JR1000-030050	
Ø3x100	JR150-0300100	JR200-0300100	JR400-0300100	JR600-0300100	JR800-0300100	JR1000-0300100	
Ø2.35x50	JR150-023550	JR200-023550	JR400-023550	JR600-023550	JR800-023550	JR1000-023550	
Ø2.35x100	JR150-0235100	JR200-0235100	JR400-0235100	JR600-0235100	JR800-0235100	JR1000-0235100	
0.3x0.3x100	JR150-0303100	JR200-0303100	JR400-0303100	JR600-0303100	JR800-0303100	JR1000-0303100	SNH05
0.5x0.5x100	JR150-0505100	JR200-0505100	JR400-0505100	JR600-0505100	JR800-0505100	JR1000-0505100	SNH07
0.7x0.7x100	JR150-0707100	JR200-0707100	JR400-0707100	JR600-0707100	JR800-0707100	JR1000-0707100	SNH09
0.9x0.9x100	JR150-0909100	JR200-0909100	JR400-0909100	JR600-0909100	JR800-0909100	JR1000-0909100	SNH13





Abrasive & High Gloss Polishing



Info

Comparison table

Grain size	µm
100	200 - 250
150	150 - 200
200	100 - 150
300	40 - 60
400	30 - 40
600	20 - 30
1000	8 - 10
2000	3 - 8
3000	2 - 6
4000	2 - 4
6000	0 - 3
8000	0 - 1

- RO 601... - RO 605... - RO 801...

Abrasive belt rolls



Features:

- Abrasive material: Corundum
- Grain support: RO 601 and RO 605 flexible linen fabric. Ro 801 paper
- Length: 50 m per roll

REF	Grain	Width
RO801K800	800	25
RO801K1000	1000	25
RO801K1200	1200	25
RO801K1500	1500	25

REF	Grain	Width
RO601K040	40	25
RO601K050	50	25
RO601K060	60	25
RO601K080	80	25
RO601K100	100	25
RO601K120	120	25
RO601K150	150	25
RO601K180	180	25
RO601K220	220	25
RO601K240	240	25
RO601K280	280	25
RO601K320	320	25
RO601K400	400	25
RO601K500	500	25
RO601K600	600	25
RO605K040	40	50
RO605K050	50	50

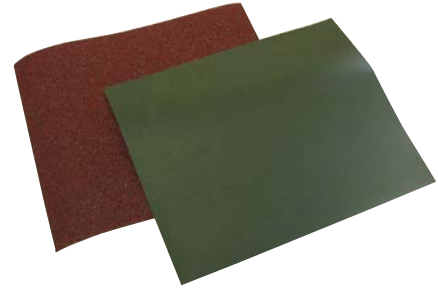
REF	Grain	Width
RO605K060	60	50
RO605K080	80	50
RO605K100	100	50
RO605K120	120	50
RO605K150	150	50
RO605K180	180	50
RO605K220	220	50
RO605K240	240	50
RO605K280	280	50
RO605K320	320	50
RO605K400	400	50
RO605K500	500	50
RO605K600	600	50

Abrasive cloth, abrasive paper

BO 602.... - BO 802...

Features:

- Width x Length: 230 x 280 mm
- Abrasive material: Corundum
- Grain support: BO 602 flexible linen fabric. Bo 802 paper



REF	Grain	
BO602K040	40	50
BO602K050	50	50
BO602K060	60	50
BO602K080	80	50
BO602K100	100	50
BO602K120	120	50
BO602K150	150	50
BO602K180	180	50
BO602K220	220	50
BO602K240	240	50
BO602K280	280	50
BO602K320	320	50
BO602K400	400	50
BO602K500	500	50
BO602K600	600	50

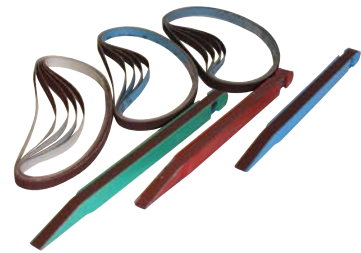
REF	Grain	
BO802K800	800	50
BO802K1000	1000	50
BO802K1200	1200	50
BO802K1500	1500	50

Abrasive belt and holder

BS 21

Includes:

- Kit, composed of 21 items
- width = 6,5 mm
- 3 holders furnished with abrasive belts with grain of 120, 240 and 320 each
- 15 additional abrasive belts with grain of 120, 240, 320, always 5 of each.



REF
BS21

Abrasive belt and holder

BS 36

Includes:

- Kit, composed of 36 items
- width = 6,5 mm
- 3 holders + abrasive belts, grain 120, 240 and 320 each
- 30 additional abrasive belts, grain 120, 240, 320, always 10 of each.



REF
BS36

BS 60



Abrasive belt and holder

Includes:

- Kit, composed of 60 items
- width = 6,5 mm
- 5 holders + abrasive belts, grain 120, 240, 320, 400, 600 each
- 50 additional abrasive belts, grain 120, 240, 320, 400, 600, always 10 of each.

REF

BS60

BS 806



Belt holder

REF

BS806065

for width

6,5 mm



5

BS 7 ...



Abrasive belts

REF

BS701065120

for width

6,5

Grain

120



10

BS702065240

6,5

240

10

BS703065320

6,5

320

10

BS704065400

6,5

400

10

BS705065600

6,5

600

10

B 0 ...



Abrasive belts

Features:

- Material: Standard corundum
- For belt sander handpiece BS 33

Order example for first item (REF + Grain j): **B04K080**

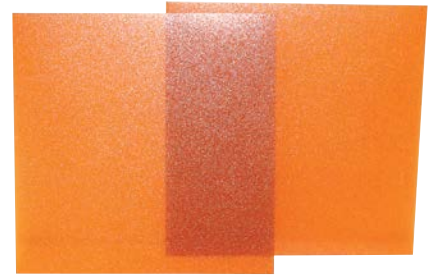
REF	Grain							Dimensions	
	80	120	240	320	500	800	1000		
B04KO								4 x 300	20
B06KO								6 x 300	20
B08KO								8 x 300	20

Diamond foil on flexible plastic film

DF 30 ...

Features:

- Carrier: polyamide
- Type:
A = standard
B = self-adhesive



REF	Grain	Type	Foil color	a x b	Thickness
DF30K0150A	150	A	orange	100 x 100	0,1
DF30K0150B	150	B	orange	100 x 100	0,1
DF30K0220A	220	A	green	100 x 100	0,1
DF30K0220B	220	B	green	100 x 100	0,1
DF30K0280A	280	A	ochre	100 x 100	0,1
DF30K0280B	280	B	ochre	100 x 100	0,1
DF30K0400A	400	A	brown	100 x 100	0,1
DF30K0400B	400	B	brown	100 x 100	0,1
DF30K0800A	800	A	dark red	100 x 100	0,1
DF30K0800B	800	B	dark red	100 x 100	0,1
DF30K1500A	1500	A	light red	100 x 100	0,1
DF30K1500B	1500	B	light red	100 x 100	0,1
DF30K3000A	3000	A	dark green	100 x 100	0,1
DF30K3000B	3000	B	dark green	100 x 100	0,1
DF30K5000A	5000	A	light green	100 x 100	0,1
DF30K5000B	5000	B	light green	100 x 100	0,1
DF30K10000A	10 000	A	gold	100 x 100	0,1
DF30K10000B	10 000	B	gold	100 x 100	0,1

Diamond paste

DP 20

Features:

- Natural-diamond, heavy concentration, oil-alcohol soluble base.

REF	Grain size μm	Color of paste	
DP20025MY5GR	0,25	grey	5 gr
DP2001MY5GR	1	blue	5 gr
DP2003MY5GR	3	green	5 gr
DP2006MY5GR	6	yellow	5 gr
DP2009MY5GR	9	red	5 gr
DP2012MY5GR	12	light brown	5 gr
DP2015MY5GR	15	medium brown	5 gr
DP2023MY5GR	23	dark brown	5 gr
DP2030MY5GR	30	light purple	5 gr
DP2050MY5GR	50	medium purple	5 gr
DP2070MY5GR	70	dark purple	5 gr
DP20100MY5GR	100	violet	5 gr



Diamond paste

DP 30

Features:

- Synthetic-diamond, heavy concentration, oil-alcohol soluble base.

REF	Grain size μm	Color of paste	
DP30M003MY5GR	3	green	5 gr
DP30M006MY5GR	6	yellow	5 gr
DP30M009MY5GR	9	red	5 gr
DP30M012MY5GR	12	light brown	5 gr
DP30M015MY5GR	15	medium brown	5 gr
DP30M023MY5GR	23	dark brown	5 gr
DP30M030MY5GR	30	purple	5 gr
DP30M050MY5GR	50	white	5 gr



DP 25

Diamond spray



REF	Grain size µm	Color of paste	
DP25010MY150GR	0,1	white	150 gr
DP25025MY150GR	0,25	grey	150 gr
DP2501MY150GR	1	blue	150 gr
DP2503MY150GR	3	green	150 gr
DP2506MY150GR	6	yellow	150 gr
DP2509MY150GR	9	red	150 gr
DP2512MY150GR	12	light brown	150 gr
DP2515MY150GR	15	medium brown	150 gr
DP2523MY150GR	23	dark brown	150 gr
DP2530MY150GR	30	light purple	150 gr

F 25 / F 125

Diluent



Features:
For the dilution of oil-alcohol soluble diamond pastes, and for cooling and increasing the free cutting of diamond and polishing stones in connection with ultrasonic work.

REF	
F25	0,1 l
F125	1,0 l

LP ...

Lapping and polishing bars



Features: Support for diamond pastes

REF	Grain µm	Dimensions	l	Material	
LP1005	6 - 15	Ø 5	150	plexiglass	10
LP1010	6 - 15	Ø 10	150	plexiglass	10
LP100407	6 - 15	4 x 7	150	plexiglass	10
LP100420	6 - 15	4 x 20	150	plexiglass	10
LP1206	6 - 30	Ø 6	150	laminated wood	10
LP1210	6 - 30	Ø 10	150	laminated wood	10
LP120606	6 - 30	6 x 6	150	laminated wood	10
LP1405	6 - 9	Ø 5	150	hardwood	10
LP1410	6 - 9	Ø 10	150	hardwood	10
LP160407	6 - 9	4 x 7	150	hardwood	10
LP140415	6 - 9	4 x 15	150	hardwood	10
LP140420	6 - 9	4 x 20	150	hardwood	10
LP1503	3 - 9	Ø 3	150	medium wood	10
LP1605	3	Ø 5	150	soft wood	10
LP1610	3	Ø 10	150	soft wood	10
LP160407	3	4 x 7	150	soft wood	10
LP160415	3	4 x 15	150	soft wood	10
LP160420	3	4 x 20	150	soft wood	10

Mold Finish comparison kit

MFK 1200

Expanded version - 12 samples finished to SPI standards

Eliminates errors or guesswork in achieving desired or specified finishes

Saves time by eliminating over-polishing

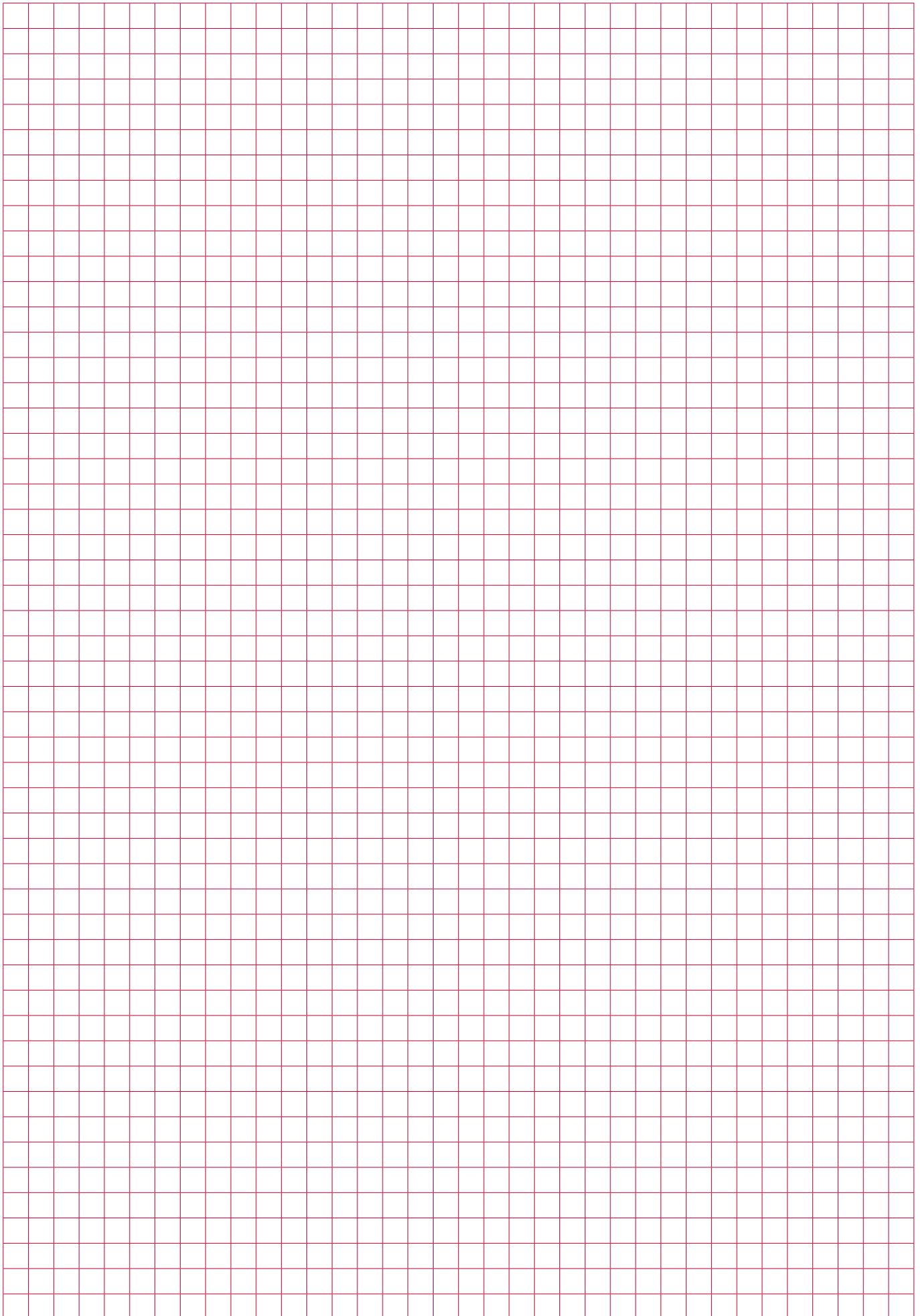
Provides a visual and numerical standard for specifying mold/part finishes



REF

MFK1200

Finish Type	Description	Roughness average Micro-inches	Roughness average Micron	Comments
A1	Grade 3 diamond buff	0-1	0-0,025	<ul style="list-style-type: none"> • For mirror or optical finishes • Most time consuming • Steel grade important to results • (Steel DME 6 and 7 recommended)
A2	Grade 6 diamond buff	1-2	0,025-0,05	
A3	Grade 15 diamond buff	2-3	0,05-0,076	
B1	600 grit paper	2-3	0,05-0,076	<ul style="list-style-type: none"> • Removes all tool and machining marks • Provides good mould release • Light reflecting finish on molded part, some sheen
B2	400 grit paper	4-5	0,10-0,127	
B3	320 grit paper	9-10	0,23-0,25	
C1	600 stone	10-12	0,25-0,30	<ul style="list-style-type: none"> • Removes all tool and machining marks • Provides good mold release • Mute finish on molded part, no sheen
C2	400 stone	25-28	0,64-0,71	
C3	320 stone	38-42	0,97-1,07	
D1	Dry blast glass bead 11, 200 distance at 0,7Mpa; 5 secs	10-12	0,25-0,30	<ul style="list-style-type: none"> • For decorative finishes • Often used for diecast and thermoset tooling • Helps hide shrink marks and other imperfections • Dull, non-reflecting finish on molded or cast part
D2	Dry blast 240 oxyde, 125 mm distance at 0,7 Mpa; 5 secs	26-32	0,66-0,81	
D3	Dry blast 24 oxyde 150 mm distance at 0,7 Mpa; 5 secs	190-230	4,83-5,84	





Abrasive Polishing Sticks, Grinding Wheels



SCHL 1400 ...

Mounted points (orange)



Features:

- Material: EKWbr
- Vmax 55.000 min⁻¹
- Non-tempered steels, structural steels, forged steel, low alloy steels

REF	Head Ø	Head length	Shank Ø	Shank l		Shape
SCHL14000205	2	5	3	30	20	
SCHL14000306	3	6	3	30	20	
SCHL14000408	4	8	3	30	20	
SCHL14000510	5	10	3	30	20	
SCHL14000610	6	10	3	30	20	
SCHL14000810	8	10	3	30	20	
SCHL14001010	10	10	3	30	20	
SCHL14001013	10	13	3	30	20	
SCHL14001313	13	13	3	30	20	
SCHL14001616	16	16	3	30	20	
SCHL14001604	16	4	3	30	20	
SCHL14002006	20	6	3	30	20	
SCHL140006	Ø 6	-	3	30	20	
SCHL140008	Ø 8	-	3	30	20	
SCHL140010	Ø 10	-	3	30	20	
SCHL140013	Ø 13	-	3	30	20	

SCHL 1410 ...

Mounted points (pink)



Features:

- Material: EKR
- Vmax 55.000 min⁻¹
- Tempered steels, alloy steels, cast iron, malleable cast iron, casting steel

REF	Head Ø	Head length	Shank Ø	Shank l		Shape
SCHL14100205	2	5	3	30	20	
SCHL14100306	3	6	3	30	20	
SCHL14100408	4	8	3	30	20	
SCHL14100510	5	10	3	30	20	
SCHL14100610	6	10	3	30	20	
SCHL14100810	8	10	3	30	20	
SCHL14101010	10	10	3	30	20	
SCHL14101303	10	13	3	30	20	
SCHL14101313	13	13	3	30	20	
SCHL14101616	16	16	3	30	20	
SCHL14101303	13	3	3	30	20	
SCHL14101604	16	4	3	30	20	
SCHL14102006	20	6	3	30	20	
SCHL141006	Ø 6	-	3	30	20	
SCHL141008	Ø 8	-	3	30	20	
SCHL141010	Ø 10	-	3	30	20	
SCHL141013	Ø 13	-	3	30	20	

Mounted points (dark red)

SCHL 1430 ...

Features:

- Material: EKD, resin impregnation
- Vmax 55.000 min⁻¹
- Heat treated, high alloy and heat resisting steels



REF	Head Ø	Head length	Shank Ø	Shank l		Shape
SCHL14300205	2	5	3	30	20	
SCHL14300306	3	6	3	30	20	
SCHL14300408	4	8	3	30	20	
SCHL14300510	5	10	3	30	20	
SCHL14300610	6	10	3	30	20	
SCHL14300810	8	10	3	30	20	
SCHL14301010	10	10	3	30	20	
SCHL14301013	10	13	3	30	20	

Mounted points (green)

SCHL 1440 ...

Features:

- Material: SIC
- Vmax 55.000 min⁻¹
- Solid carbide, high alloy steels, glass, ceramics, chilled casting



REF	Head Ø	Head length	Shank Ø	Shank l		Shape
SCHL14400306	3	6	3	30	20	
SCHL14400408	4	8	3	30	20	
SCHL14400510	5	10	3	30	20	
SCHL14400610	6	10	3	30	20	
SCHL14400810	8	10	3	30	20	
SCHL14401010	10	10	3	30	20	

Diprol diamond grinding points, electro bond

D ... H3

REF	Head Ø D	Head length T	Shank Ø	Total length L	Grain		Shape
D0308LH3	0,8	4,0	3	46 B = 7	D 107	1	
D0310LH3	1,0	4,0		46 B = 8	D 107		
D0315LH3	1,5	4,0		46 B = 10	D 107		
D0320LH3	2,0	5,0		46 B = 14	D 151		
D0320LH3D064	2,0	5,0		46 B = 14	D 64		
D0325LH3	2,5	5,0		46 B = 19	D 151		
D1325H3	2,5	7,0		46 B = 19	D 151		
D0330LH3	3,0	5,0		46 B = 19	D 151		
D0330LH3D064	3,0	5,0		46 B = 19	D 64		
D0335LH3	3,5	5,0		3	44		
D0340LH3	4,0	5,0	44				
D0345LH3	4,5	5,0	44				
D0350LH3	5,0	6,0	45				
D0352H3	5,5	6,0	45				
D0354H3	6,0	6,0	45				
D1354H3	6,0	10,0	49				


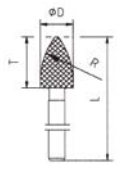
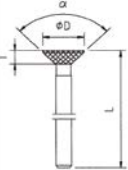
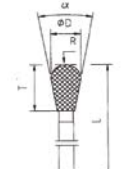
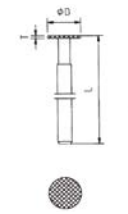
D ... H3

Dipofil diamond grinding points, electro bond

REF	Head Ø D	Head length T	Shank Ø	Total length L	Grain		Shape
D6258H3	7,0 d = 4,5 R = 10	10,0	3	49	D 151	1	
D6054H3	6,0 R = 3	10,0	3	49	D 151	1	
D0116H3	1,7	-	3	46	D 151	1	
D0116H3D064	1,7				D 64		
D0120H3	2,1				D 151		
D0124H3	2,5				D 151		
D0130H3	3,0				D 151		
D0130H3D064	3,0				D 64		
D0140H3	4,1				D 151		
D0150H3	5,0				D 151		
D0154H3	6,0				D 151		
D 0916	1,6 R = 45	7,5	3	46	D 151	1	
D 0916L	1,6 R = 45	10,0			D 151		
D 0916L	1,6 R = 45	10,0			D 64		
D 0924	2,4 R = 30	7,5			D 151		
D 0924L	2,4 R = 30	10,0			D 151		
D 0924L	2,4 R = 30	10,0			D 64		
D 5830	3,1 a = 30°	5,0	3	46	D 151	1	
D 5830	3,1 a = 30°	5,0		46	D 64		
D 5562	8,0 a = 90°	3,9		43,2	D 151		
D 5662	8,0 a = 60°	6,6		45,9	D 151		
D 0712	1,3 d = 0,7 a = 4°	9,0	3	46	D 151	1	
D 0716	1,6 d = 0,8 a = 5°				D 151		
D 0720	1,9 d = 1,1 a = 5°				D 151		
D 0720	1,9 d = 1,1 a = 5°				D 64		
D 0516L	1,6 d = 0,9 a = 4°	10,0	3	46	D 151	1	
D 0521L	2,1 d = 1,4 a = 4°	10,0		46	D 151		
D 0521L	2,1 d = 1,4 a = 4°	10,0		46	D 64		
D 0526	2,6 d = 1,75 a = 4°	3,0		46	D 151		
D 5858	7,0 d = 2,0 a = 30°	10,0		49	D 151		
D 5756	8,0 d = 1,4 a = 45°	8,5		47,5	D 151		

Diprofil diamond grinding points, electro bond

D ... H3

REF	Head Ø D	Head length T	Shank Ø	Total length L	Grain		Shape
D0954H3	6,0 R = 17	10,0	3	49	D 151	1	
D0224H3	2,4 d = 1,5 a = 20°	3,0	3	46	D 151	1	
D0224H3D064	2,4 d = 1,5 a = 20°	3,0		46	D 64		
D5456H3	6,5 d = 3,5 a = 15°	10,0		49	D 151		
D5062H3	8,0 d = 3,0 a = 90°	2,15		42	D 151		
D6154H3	6,0 d = 3,5 a = 20° R = 3	10,0	3	49	D 151	1	
D1525H3	7,3	0,8	3	40	D 151	1	

BS 150 ...

Borazon grinding points



Features:

- Shank quenched and subsequently drawn and ground.
- Truth of running: 4 µm
- Vmax: 55.000 min⁻¹

Order example for first item (REF + Grain): **BS15000855B064**

REF	Grain		Total length	Head Ø	Head length	Shank Ø	
	064	151					
BS15000855B			55	0,8	4	3	1
BS15001055B			55	1,0	4	3	1
BS15001355B			55	1,3	4	3	1
BS15001555B			55	1,5	4	3	1
BS15001855B			55	1,8	4	3	1
BS15002055B			55	2,0	4	3	1
BS15002555B			55	2,5	4	3	1
BS15003555B			55	3,0	5	3	1
BS15003090B			90	3,0	4	6	1
BS15003555B			55	3,5	5	3	1
BS15004055B			55	4,0	5	3	1
BS15004090B			90	4,0	5	6	1
BS15005055B			55	4,0	5	3	1
BS15005090B			90	5,0	5	6	1
BS15006075B			75	6,0	7	6	1
BS15006090B			90	6,0	7	6	1
BS15008075B			75	8,0	8	6	1
BS15010090B			90	10,0	10	6	1
BS15012090B			90	12,0	10	10	1
BS15015090B			90	15,0	10	10	1

DS 150 ...

Diamond grinding points



Features:

- Shank quenched and subsequently drawn and ground.
- Truth of running: 4 µm
- Vmax: 40.000 min⁻¹

Order example for first item (REF + Grain): **DS15000855D091**

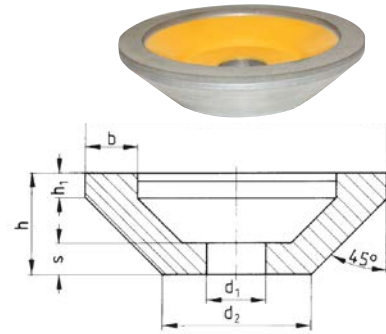
REF	Grain		Total length	Head Ø	Head length	Shank Ø	
	091	151					
DS15000855D			55	0,8	4	3	1
DS15001055D			55	1,0	4	3	1
DS15001355D			55	1,3	4	3	1
DS15001555D			55	1,5	4	3	1
DS15001855D			55	1,8	4	3	1
DS15002055D			55	2,0	4	3	1
DS15002555D			55	2,5	4	3	1
DS15003055D			55	3,0	5	3	1
DS15003090D			90	3,0	4	6	1
DS15003555D			55	3,5	5	3	1
DS15004055D			55	4,0	5	3	1
DS15004090D			90	4,0	5	6	1
DS15005090D			90	5,0	5	6	1
DS15006075D			75	6,0	7	6	1
DS15006090D			90	6,0	7	6	1
DS15008075D			75	8,0	8	6	1
DS15010090D			90	10,0	10	6	1
DS15012090D			90	12,0	10	10	1
DS15015090D			90	15,0	10	10	1

Diamond grinding wheels, form A

DT 12

Features:

- Electro-bond = 1
Vmax: 7.000 min⁻¹ (wet and dry grinding)
- Resin-bond = 2
Vmax: 7.000 min⁻¹ (wet grinding)
Vmax: 7.000 min⁻¹ (dry grinding)
- Metal-bond = 3
Vmax: 7.000 min⁻¹ (wet and dry grinding)



Order example for first item (REF + Grain): **DT121D091**

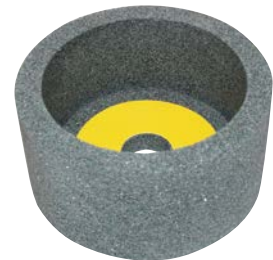
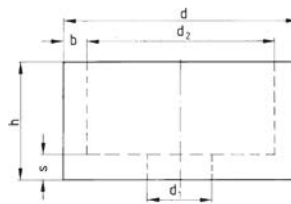
REF	Grain		Bond	d	d1	d2	h	h1	b	s	
	091	126									
DT121D			1	100	20	56	23	-	10	10	1
DT122D			2	100	20	56	23	2	10	10	1
DT123D			3	100	20	56	23	1	10	10	1

SiCgr grinding wheels, form D

DT 13

Features:

- Specially to grind solid carbide
Vmax: 30.000 min⁻¹
- Composition: 39C 60 KVS



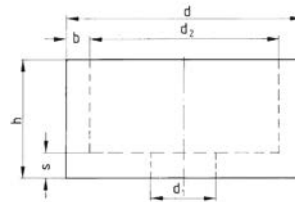
REF	d	d1	d2	h	h1	b	s	
DT13	100	20	-	50	-	10	~10	1

EKW grinding wheels, form D

DT 14

Features:

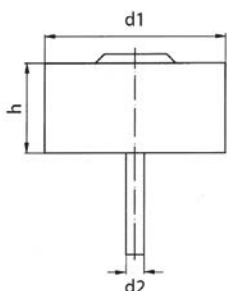
- With edge hardening
Vmax: 30.000 min⁻¹
- Composition: 30A 80K 8 V74



REF	d	d1	d2	h	h1	b	s	
DT14	100	20	-	50	-	~10	~12.5	1

FS ...

Flat grinders



Features:

- Material: Abrasive cloth
- Vmax: 35.000 min⁻¹
- For the machining of: forged steel, grey/malleable cast iron, carbon steel, deep-drawing steel, strip steel, castings, non-ferrous metals

Order example for first item (REF + Grain): **FS1010K080**

REF	Grain				d1	d2	h	n max (min-1)	
	080	120	180	240					
FS1010K					10	3	10	35.000	1
FS1510K					15	3	10	35.000	1
FS1515K					15	3	15	35.000	1
FS1520K					15	3	20	35.000	1
FS1525K					15	3	25	35.000	1
FS1530K					15	3	30	35.000	1
FS2003K					20	3	3	35.000	1
FS2005K					20	3	5	35.000	1
FS2010K					20	3	10	30.000	1
FS2015K					20	3	15	30.000	1
FS2020K					20	3	20	30.000	1
FS2025K					20	3	25	30.000	1
FS2030K					20	3	30	30.000	1
FS2503K					25	3	3	26.000	1
FS2505K					25	3	5	26.000	1
FS2510K					25	3	10	26.000	1
FS2515K					25	3	15	26.000	1
FS2520K					25	3	20	26.000	1
FS2525K					25	3	25	26.000	1
FS2530K					25	3	30	26.000	1
FS3005K					30	3	5	12.000	1
FS3010K					30	3	10	12.000	1
FS4010K					40	3	10	9.000	1
FS4015K					40	6	15	20.000	1
FS5010K					50	6	10	7.000	1
FS5015K					50	6	15	7.000	1
FS6015K					60	6	15	6.000	1
FS6020K					60	6	20	6.000	1
FS6030K					60	6	30	6.000	1
FS6040K					60	6	40	6.000	1
FS6050K					60	6	50	6.000	1

Polishing/grinding pins (red)

PK 1345 ...

Features:

- Soft rubber bond - soft grinding, high surface finish quality, low chip production
- Vmax: 15.000 min⁻¹



REF	Head Ø	Head length	Shank Ø	Total length	Grain		Shape
PK13450408	4	8	3	38	120	20	
PK13450510	5	10	3	40	120	20	
PK13450610	6	10	3	40	120	20	
PK13450810	8	10	3	40	120	20	
PK13451010	10	10	3	40	120	20	
PK13451313	13	13	3	43	120	20	
PK13451316	13	16	3	46	120	20	
PK13451616	16	16	3	46	120	20	
PK13450816	8	16	6	56	120	20	
PK13451020	10	20	6	60	120	20	
PK13451320	13	20	6	60	120	20	
PK13451620	16	20	6	60	120	20	
PK13451632	16	32	6	72	120	20	
PK13452020	20	20	6	60	120	20	
PK13452032	20	32	6	72	120	20	
PK13453232	32	32	6	72	120	20	
PK13453210	32	10	6	50	120	20	
PK13454010	40	10	6	50	120	20	
PK13453216	32	16	6	56	120	20	
PK13453220	32	20	6	60	120	20	
PK13454020	40	20	6	60	120	20	
PK13451320	13	20	6	60	120	20	
PK134508KU	Ø 8	-	3	38	120	20	
PK134510KU	Ø 10	-	3	40	120	20	
PK134516KU	Ø 16	-	6	55	120	20	
PK13451632	16	32	6	72	120	20	
PK13451020	10	20	6	60	120	20	

PK 1350 ...

Polishing/grinding pins (brown)



Features:

- Soft rubber bond - soft grinding, high surface finish quality, low chip production
- Vmax: 15.000 min⁻¹

REF	Head Ø	Head length	Shank Ø	Total length	Grain		Shape
PK13500408	4	8	3	38	220	20	
PK13500510	5	10	3	40	220	20	
PK13500610	6	10	3	40	220	20	
PK13500810	8	10	3	40	220	20	
PK13500816	10	10	3	40	220	20	
PK13501313	13	13	3	43	220	20	
PK13501616	16	16	3	46	220	20	
PK13500816	8	16	6	56	220	20	
PK13501020	10	20	6	60	220	20	
PK13501320	13	20	6	60	220	20	
PK13501620	16	20	6	60	220	20	
PK13501632	16	32	6	72	220	20	
PK13502020	20	20	6	60	220	20	
PK13502032	20	32	6	72	220	20	
PK13503210	32	10	6	50	220	20	
PK13502032	20	32	6	60	220	20	
PK135016	Ø 16	-	6	55	220	20	

PK 1360 ...

Polishing/grinding pins (green)



Features:

- Soft rubber bond - soft grinding, high surface finish quality, low chip production
- Vmax 15.000 min⁻¹

REF	Head Ø	Head length	Shank Ø	Total length	Grain		Shape
PK13600408	4	8	3	38	280	20	
PK13600510	5	10	3	40	280	20	
PK13600610	6	10	3	40	280	20	
PK13600810	8	10	3	40	280	20	
PK13601010	10	10	3	40	280	20	
PK13601313	13	13	3	43	280	20	
PK13601616	16	16	3	46	280	20	
PK13600816	8	16	6	56	280	20	
PK13601020	10	20	6	60	280	20	
PK13601320	13	20	6	60	280	20	
PK13601620	16	20	6	60	280	20	
PK13602020	20	20	6	60	280	20	
PK13602032	20	32	6	72	280	20	
PK13603232	32	32	6	72	280	20	
PK13603210	32	10	6	50	280	20	
PK13604010	40	10	6	50	280	20	
PK13603216	32	16	6	56	280	20	
PK13603220	32	20	6	60	280	20	
PK13604020	40	20	6	60	280	20	

Polishing/grinding pins (brown)

PK 1370 ... - PK 1375 ...

Features:

- Hard rubber bond - grinding of cast iron, hardened, non-hardened, alloy, and non-alloy steels.
- Vmax 15.000 min⁻¹



REF	Head Ø	Head length	Shank Ø	Total length	Grain		Shape
PK13700408	4	8	3	38	100	20	
PK13700510	5	10	3	40	100	20	
PK13700610	6	10	3	40	100	20	
PK13700810	8	10	3	40	100	20	
PK13700816	8	16	6	56	100	20	
PK13701010	10	10	3	40	100	20	
PK13701013	10	13	3	43	100	20	
PK13701016	10	16	3	46	100	20	
PK13701020	10	20	6	60	100	20	
PK13701313	13	13	3	43	100	20	
PK13701316	13	16	3	46	100	20	
PK13701320	13	20	6	60	100	20	
PK13701616	16	16	3	46	100	20	
PK13701620	16	20	6	60	100	20	
PK13701632	16	32	6	72	100	20	
PK13702020	20	20	6	60	100	20	
PK13702032	20	32	6	60	100	20	
PK13701303	13	3	3	33	100	20	
PK13701604	16	4	3	34	100	20	
PK13702006	20	6	6	72	100	20	
PK13703210	32	10	3	36	100	20	
PK13701632	16	32	6	72	100	20	
PK137008	Ø 8	-	3	38	100	20	
PK137016	Ø 16	-	6	55	100	20	
PK13702032	20	32	6	72	100	20	
PK1375	Set: Assortment includes all 13 single elements of the PK 1370 standard with shank Ø = 3 mm.						

PK 1380 ...

Polishing/grinding pins (light grey)



Features:

- Grinding of Al, Al-alloys, non ferrous metals, low- and high-alloy steels.
- Vmax: 15.000 min⁻¹

REF	Head Ø	Head length	Shank Ø	Total length	Grain		Shape
PK13800810	8	10	3	40	80	20	
PK13801010	10	10	3	40	80	20	
PK13801316	13	16	3	46	80	20	
PK13800816	8	16	6	56	80	20	
PK13801020	10	20	6	60	80	20	
PK13801320	13	20	6	60	80	20	
PK13801620	16	20	6	60	80	20	
PK13801632	16	32	6	72	80	20	
PK13802020	20	20	6	60	80	20	
PK13803232	32	32	6	72	80	20	
PK13802032	20	32	6	72	80	20	
PK138008	Ø 8	-	3	38	80	20	

GF ... - GR ... - GS ... - GK ...

Rubber carrier

REF	Head Ø	Head length	Shank Ø	Shank length	n max min ⁻¹		Shape
GF35	5	10	3	25	45.000	10	
GF37	7	12	3	25	32.000	10	
GF40	10	15	3	25	22.000	10	
GR35	5	10	3	25	45.000	10	
GR37	7	12	3	25	32.000	10	
GR40	10	15	3	25	22.000	10	
GS35	5	11	3	25	45.000	10	
GS37	7	13	3	25	32.000	10	
GS40	10	15	3	25	22.000	10	
GK15	5	15	6	40	45.000	10	
GK25	11	25	6	40	24.000	10	

Abrasive caps

SF ... - SR ... - SS ... - SK ...

Order example for first item (REF + Mesh): **SF35K080**

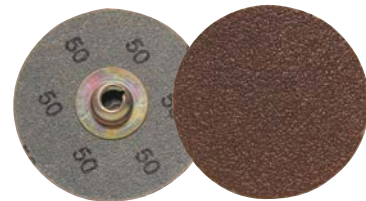
REF	Mesh			Cap-Ø	Cap-length	For		Shape
	080	150	320					
SF35K				5	10	GF ...	100	
SF37K				7	12	GF ...	100	
SF40K				10	15	GF ...	100	
SR35K				5	10	GR ...	100	
SR37K				7	12	GR ...	100	
SR40K				10	15	GR ...	100	
SS35K				5	11	GS ...	100	
SS37K				7	13	GS ...	100	
SS40K				10	15	GS ...	100	
SK15K				5	15	GK ...	100	
SK25K				11	25	GK ...	100	

Abrasive discs internal threaded

SB ...

Features:

- Material: Standard corundum
- For all tool steels



Order example for first item (REF + Grain): **SB120K050**

REF	Grain						Disc-Ø	
	050	080	120	180	240	320		
SB120K							20	100
SB125K							25	100
SB140K							40	100
SB150K							50	100
SB175K							75	100

Rubber carriers for self-fixing abrasive discs

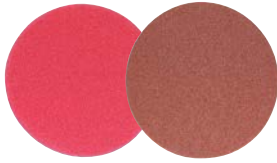
GPS ...

REF	Carrier-Ø	Shank-Ø	n max min ⁻¹	
GPS18	18	3	20.000	5
GPS30	30	3	12.500	5
GPS45	45	6	10.000	5
GPS60	60	6	8.000	5
GPS75	75	6	6.000	5



PS ...

Abrasive discs, self-adhesive



Features:

- Material: Standard corundum
- For all tool steels

Order example for first item (REF + Grain): **PS18K060**

REF	Grain						Disc-Ø	
	060	080	120	150	180	240		
PS18K							21	100
PS30K							33	100
PS45K							48	100
PS60K							63	100
PS75K							78	100

GPK ...

Rubber carriers for self-adhesive abrasive discs



REF	Carrier-Ø	Shank-Ø	n max min ⁻¹	
GPK18	18	3	20.000	5
GPK30	30	3	12.500	5
GPK45	45	6	10.000	5
GPK60	60	6	8.000	5
GPK75	75	6	6.000	5

PK ...

Abrasive discs, self-adhesive



Features:

- Material: Standard corundum
- For all tool steels

Order example for first item (REF + Grain): **PK18K060**

REF	Grain						Disc-Ø	
	060	080	120	150	180	240		
PK18K							21	100
PK30K							33	100
PK45K							48	100
PK60K							63	100
PK75K							78	100



Polishing Brushes & Felt Polishing Bobs



MB 0 ...

Polishing brushes



Features:

- Material: Brass wire
- n_{max} : 10.000 min^{-1}

REF	Wire thickness	Head- \emptyset	Shank \emptyset	Wire l		Shape
MB01	0,08	6	2,35	8	10	
MB02	0,15	8	2,35	8	10	
MB04	0,08	15	2,35	8	10	
MB05	0,15	15	2,35	8	10	
MB06	0,08	17	2,35	8	10	
MB07	0,15	17	2,35	8	10	

FPK 3 ...

Felt polishing bobs



Features:

- Material:
H 3 hard
H 3s super hard
- n_{max} : 15.000 min^{-1}

REF	Material	Head \emptyset	Head length	Shank \emptyset		Shape
FPK301H312524	H3	12,5	24	3	20	
FPK301H3S12524	H3S					
FPK302H306515	H3	6,5	15	3	20	
FPK302H3S06515	H3S					
FPK304H313012	H3	13/8	12	3	20	
FPK304H3S13012	H3S					
FPK305H311015	H3	11/6,5	15	3	20	
FPK305H3S11015	H3S					
FPK306H322004	H3	22	4	3	20	
FPK306H3S22004	H3S					
FPK307H306010	H3	6	10	3	20	
FPK307H3S06010	H3S					
FPK308H308010	H3	8	10	3	20	
FPK308H3S08010	H3S					
FPK309H310012	H3	10	12	3	20	
FPK309H3S10012	H3S					
FPK310H312015	H3	12	15	3	20	
FPK310H3S12015	H3S					

Felt polishing bobs

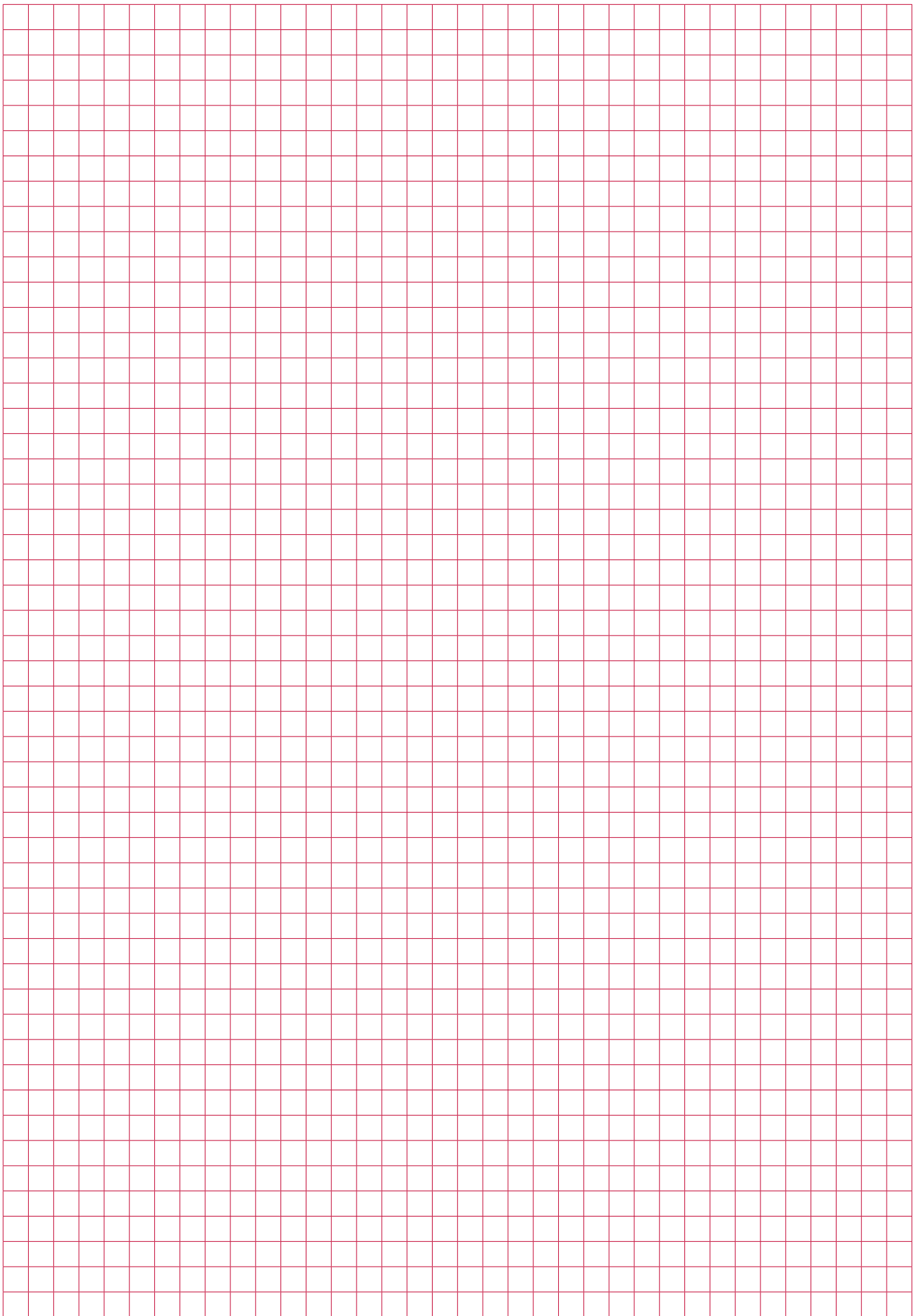
FPK 6 ...

Features:

- Material:
H 3 hard
H 3s super hard
- nmax: 15.000 min⁻¹



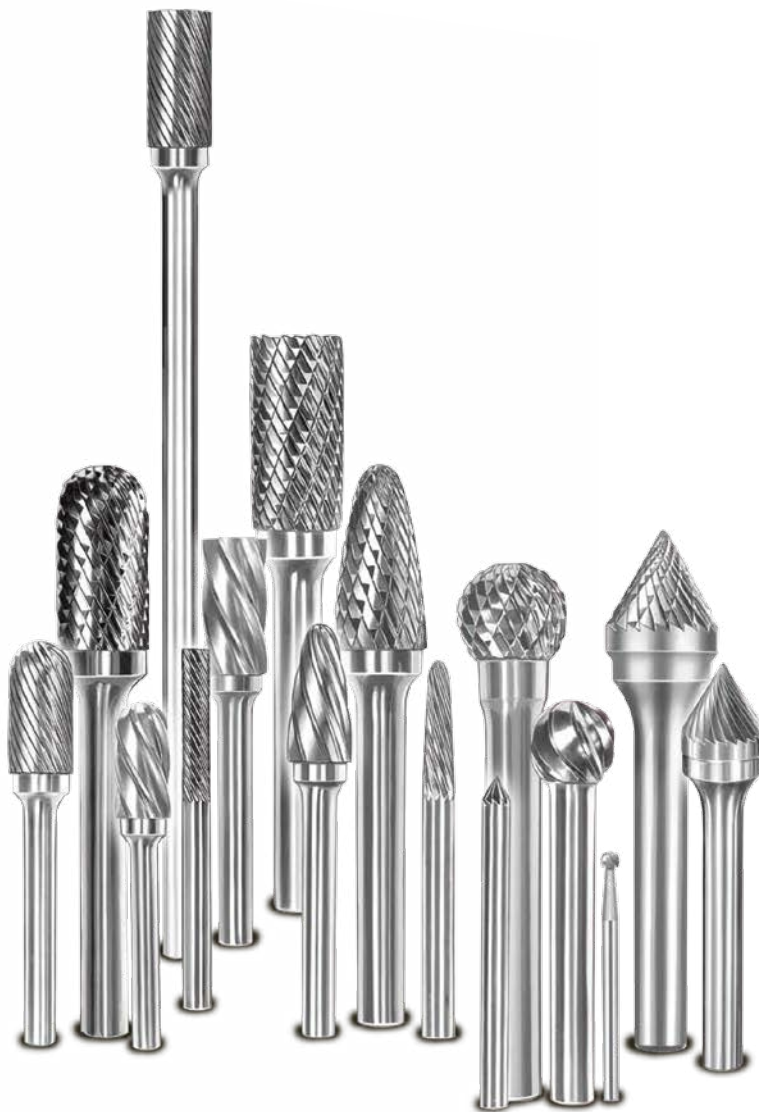
REF	Material	Head Ø	Head length	Shank Ø		Shape
FPK611H310015	H3	10	15	6	10	
FPK611H3S10015	H3S					
FPK612H312020	H3	12	20	6	10	
FPK612H3S12020	H3S					
FPK613H320025	H3	20	25	6	10	
FPK613H3S20025	H3S					
FPK614H3S12020	H3	12	20	6	10	
FPK614H3S12020	H3S					
FPK618H310015	H3	10	15	6	10	
FPK618H3S10015	H3S					
FPK619H312020	H3	12	20	6	10	
FPK619H3S12020	H3S					
FPK620H320025	H3	20	25	6	10	
FPK620H3S20025	H3S					





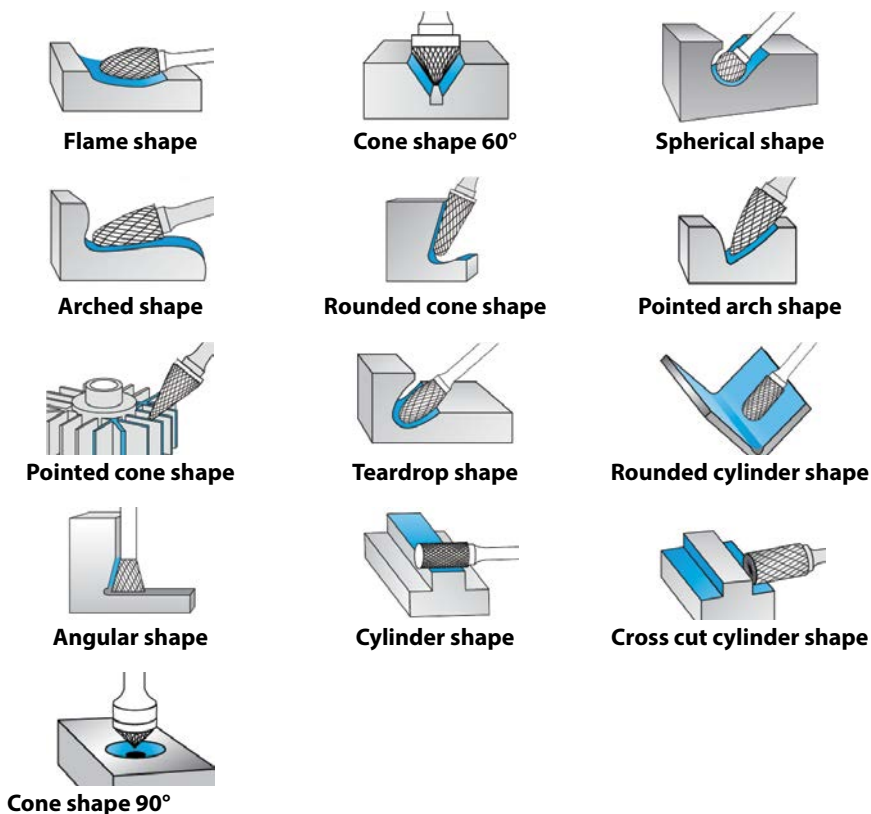
MILACRON®

Rotor Cutters



Info

Rotor cutters shapes



Info

Rotor cutters



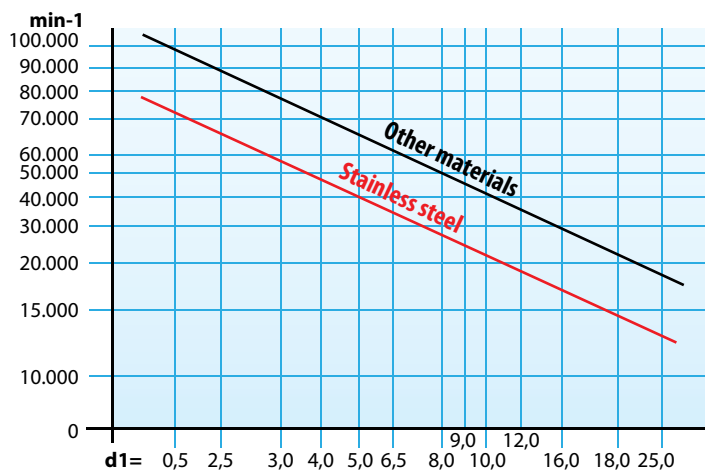
Cross cut:
very efficient stock removal on all ferrous metals including tempered and stainless steel, creates small chips, reduces vibration and gives excellent operator control.



Standard cut:
very efficient stock removal for a flawless finish.

Info

Speed recommendation

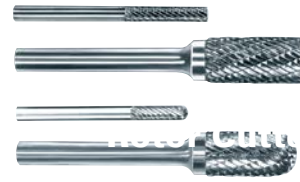


Rotor cutters

FH ... / FH ... X

Features:

- Material: Solid carbide grade K 10
- Vmax 30.000 min⁻¹
- Shank: steel
- Cross cut: add "X" to REF e.g. FH04X



REF	Head Ø	Head length	Total length	Shank Ø	Shape	
FH001	3	12	50	6		
FH002	4	16	50	6		
FH003	5	16	50	6		
FH004	6	16	50	6		
FH005	8	19	60	6		
FH006	9,5	19	60	6		
FH007	12,5	25	60	6		
FH008	16	25	62	6		
FH009	19	25	65	6		
FH010	25	25	65	6		
FH011	3	12	50	6		
FH012	4	16	50	6		
FH013	5	16	50	6		
FH014	6	16	50	6		
FH015	8	19	56	6		
FH016	9,5	19	56	6		
FH017	12,5	25	62	6		
FH018	16	25	62	6		
FH019	19	25	65	6		
FH020	25	25	65	6		
FH021	3	-	50	6		
FH022	5	-	50	6		
FH023	6	-	50	6		
FH024	8	-	50	6		
FH025	9,5	-	50	6		
FH026	12,5	-	50	6		
FH027	16	-	55	6		
FH028	19	-	69	6		
FH029	25	-	65	6		
FH030	6	16	50	6		
FH031	8	16	50	6		
FH032	9,5	19	60	6		
FH033	12,5	19	60	6		
FH034	12,5	25	62	6		
FH035	16	25	70	6		
FH036	19	25	70	6		
FH038	6	10	50	6		
FH039	9,5	16	60	6		
FH040	12,5	22	60	6		
FH041	16	25	70	6		
FH042	19	25	75	6		
FH043	6	12 α = 22°	50	6		
FH044	6	19 α = 14°	50	6		
FH045	6	25 α = 10°	60	6		
FH046	9,5	16 α = 28°	60	6		
FH047	12,5	22 α = 28°	65	6		
FH048	16	25 α = 31°	65	6		
FH049	6	16 α = 14°	50	6		
FH050	8	22 α = 14°	50	6		
FH051	9,5	27 α = 14°	55	6		
FH052	12,5	28 α = 14°	70	6		
FH053	16	30 α = 14°	70	6		
FH054	19	38 α = 14°	80	6		
FH055	3	12	37	6		
FH056	6	16	50	6		
FH057	9,5	19	60	6		
FH058	12,5	19	60	6		
FH059	12,5	25	65	6		
FH060	16	25	70	6		
FH061	19	25	75	6		

FH ... / FH ...X

Rotor cutters

REF	Head Ø	Head length	Total length	Shank Ø	Shape
FH062	8	19	60	6	
FH063	12,5	32	70	6	
FH064	16	36	75	6	
FH065	19	41	80	6	
FH066	6	4 $\alpha = 60^\circ$	37	6	
FH067	9,5	8 $\alpha = 60^\circ$	60	6	
FH068	12,5	11 $\alpha = 60^\circ$	60	6	
FH069	16	14 $\alpha = 60^\circ$	60	6	
FH070	19	17 $\alpha = 60^\circ$	65	6	
FH071	25	24 $\alpha = 60^\circ$	65	6	
FH072	6	3	37	6	
FH073	9,5	4	37	6	
FH074	12,5	6	50	6	
FH075	16	8	60	6	
FH076	19	9,5	60	6	
FH077	25	12	65	6	
FH078	6	8 $\alpha = 10^\circ$	50	6	
FH079	9,5	9 $\alpha = 13^\circ$	50	6	
FH080	12,5	12 $\alpha = 28^\circ$	55	6	
FH081	16	16 $\alpha = 18^\circ$	55	6	
FH082	19	19 $\alpha = 30^\circ$	55	6	

FH 10 ... - FH 100

Small rotor cutters, carbide



Features:

- Material: carbide grade K 10
- V_{max} 40.000 min^{-1}
- Cross cut: add "X" to REF e.g. FH102X

REF	Head Ø	Head length	Shank length	Shank Ø	Shape
FH101	6	12	38	3	
FH102	6	4,7	38	3	
FH103	6	12	38	3	
FH104	6	5	38	3	
FH105	6	9,5	38	3	
FH106	6	12	38	3	
FH107	6	12	38	3	
FH108	6	12 $\alpha = 22^\circ$	38	3	
FH109	6	6 $\alpha = 10^\circ$	38	3	
FH100	Set: FH101, FH102, FH103, FH104, FH105, FH106, FH107, FH108, FH109				

Miniature rotor cutters, solid carbide

FH 1 ... - FH 120

Features:

- Material: Solid carbide grade K 10
- Vmax 40.000 min⁻¹
- Cross cut: add "X" to REF e.g. FH121X



REF	Head Ø	Head length	Total length	Shank Ø	Shape
FH119	0,5	6	38	3	
FH120	1,0	6	38	3	
FH121	1,5	6	38	3	
FH122	2,5	11	38	3	
FH123	3	14	38	3	
FH124	2,5	11	38	3	
FH125	3	14	38	3	
FH126	3	5,5	38	3	
FH127	3	6 $\alpha = 10^\circ$	38	3	
FH128	3	12	38	3	
FH130	3	9,5	38	3	
FH131	3	6	38	3	
FH132	3	2,5 $\alpha = 60^\circ$	38	3	
FH133	3	1,5 $\alpha = 90^\circ$	38	30	
FH134	3	9,5 $\alpha = 8^\circ$	38	3	
FH135	3	12 $\alpha = 8^\circ$	38	3	
FH136	3	6	38	3	
FH137	3	11 $\alpha = 14^\circ$	38	3	
FH138	3	16 $\alpha = 7^\circ$	38	3	
FH139	3	4 $\alpha = 10^\circ$	38	3	
FH140	2,5	2,5	38	3	
FH141	3	3	38	3	
FH120SET	Set: FH121 -> FH141 one of each				










FH 15 ...

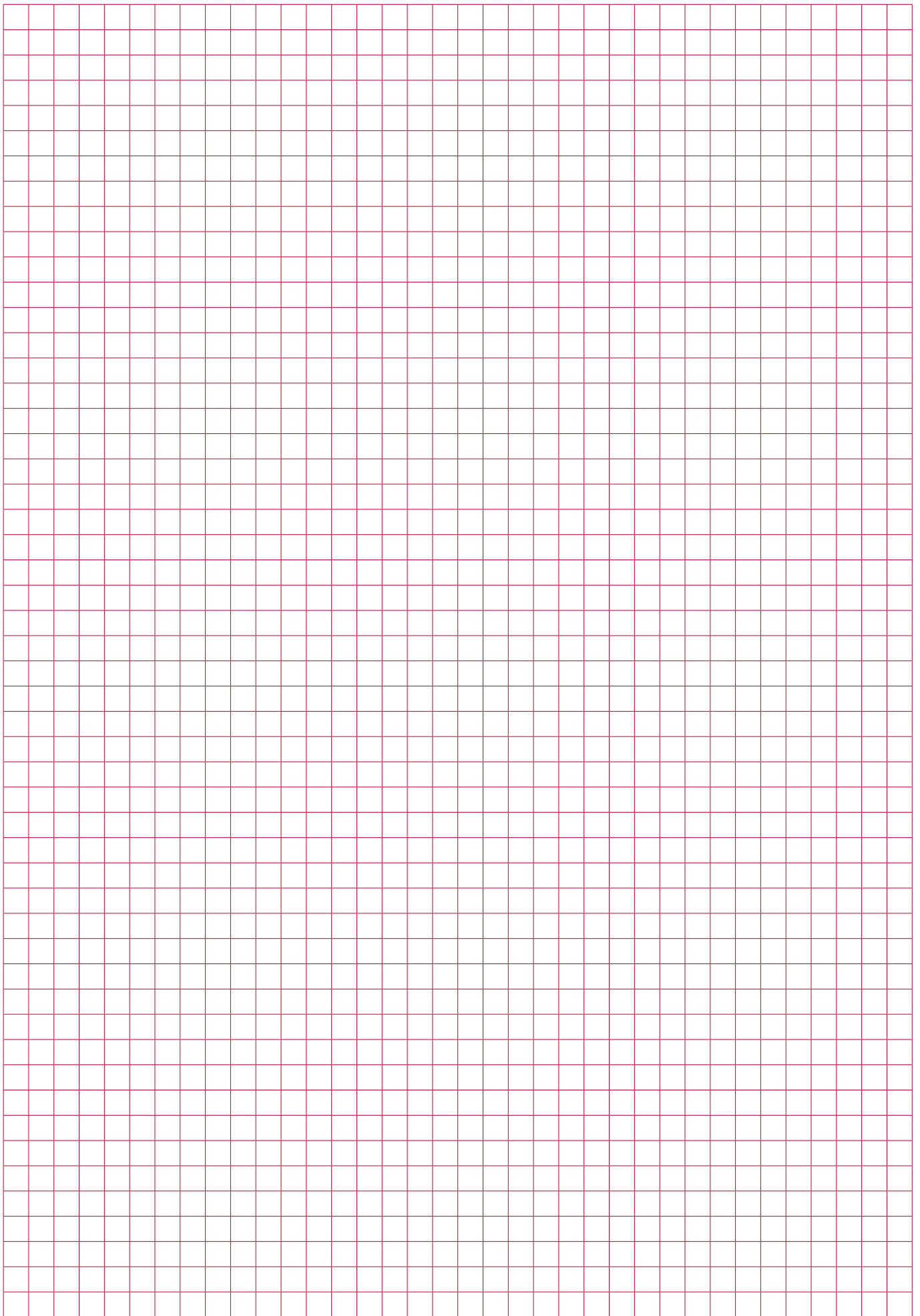
Long miniature rotor cutters, solid carbide

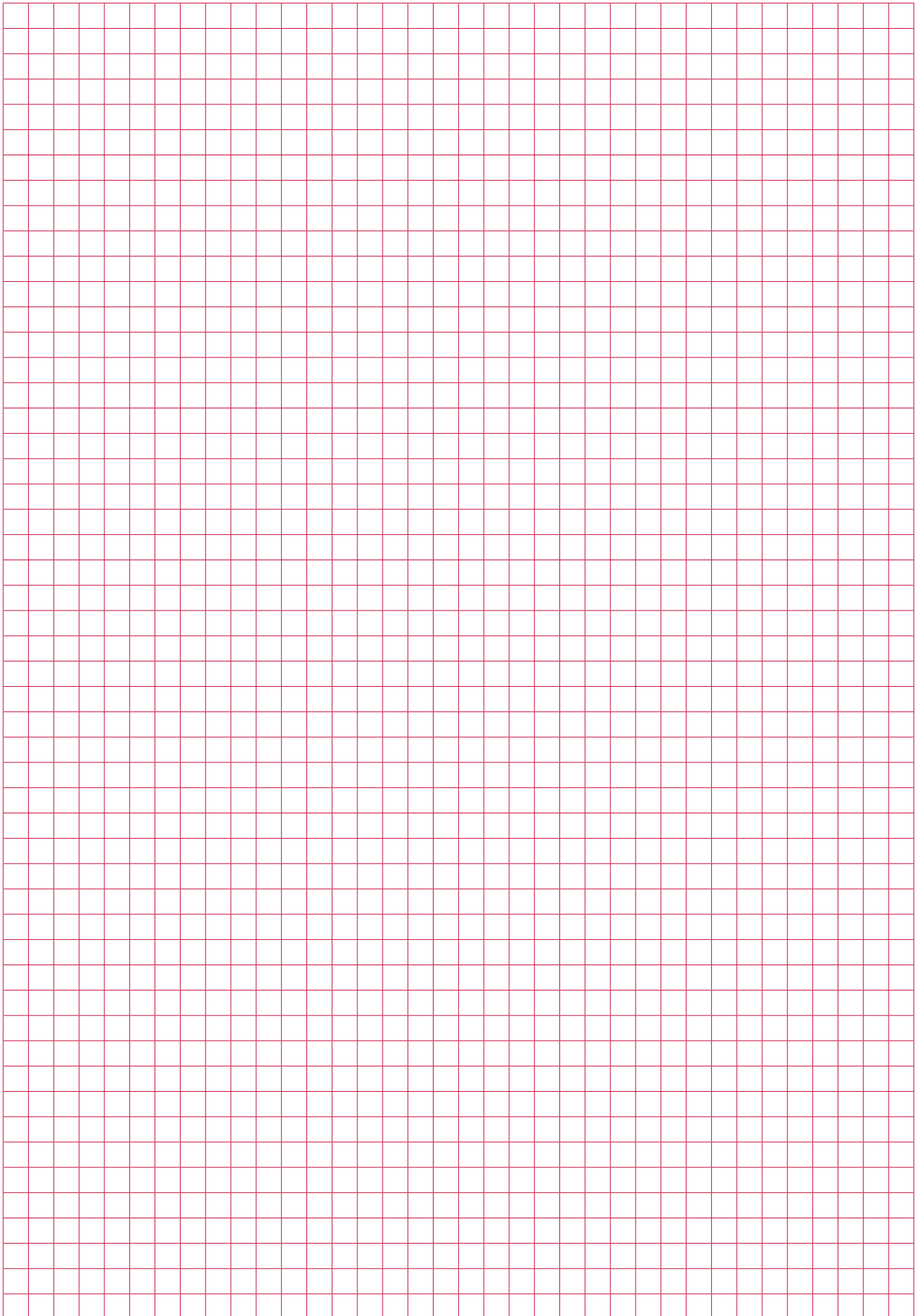


Features:

- Material: Solid carbide grade K 10
- Vmax 40.000 min⁻¹
- Cross cut: add "X" to REF e.g. FH152X

REF	Head Ø	Head length	Total length	Shank Ø	Shape
FH150	3	14	75	3	
FH151	3	14	75	3	
FH152	3	3	75	3	
FH153	3	5,5	75	3	
FH154	3	12,7	75	3	
FH155	3	12,7	75	3	
FH156	3	6,3	75	3	
FH157	3	12,7	75	3	
FH158	3	11	75	3	







CUTTERS & TRIMMERS



Cutters & Trimmers

Premium Gatecutters.....	402
Nipper pliers.....	413
Pliers.....	414
Pneumatic Cutters.....	416
Helicol-Combi®.....	419
Knives.....	420



Cutters & Trimmers



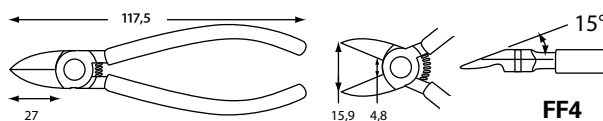
FF



4" Flat Faced Cutter

- Precision-ground and hardened, ultra-sharp cutting blades
- Precision blades cut with a 'snap'
- Small size cutter - ideal for lightweight jobs and frequent use
- Stainless steel spring for long life
- Low profile, flat face for flush cutting

REF	
FF4	
PSPG2	Spare springs



FF

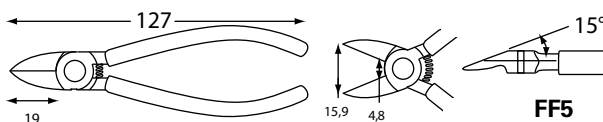


5" Flat Faced Cutter

- Special Plastic Cutting Pliers
- Flat Back for flush cutting - top quality
- Precision blades cut with a 'snap'
- Made from our own dies
- Stainless steel spring for long life
- Low profile, flat face for flush cutting

REF	
FF5	
PSPG2	Spare springs

Note: Repetitive hand action can lead to incidence of repetitive use syndrome (carpal tunnel). Ergonomic cutters shown on the following pages are recommended; however, operators should take frequent rests and use wrist support.



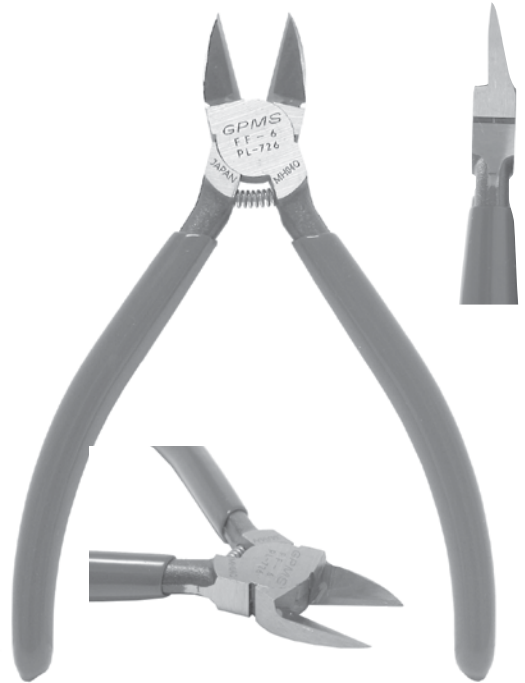
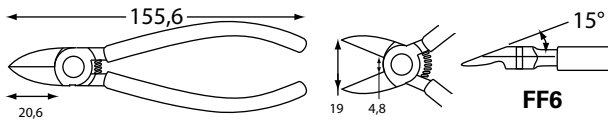
6" Flat Faced Cutter

FF

- Special Plastic Cutting Pliers
- Precision blades cut with a 'snap'
- Precision-ground and hardened, ultra-sharp cutting blades
- Stainless steel spring for long life
- Flat Back for flush cutting - top quality
- Made from our own dies
- Stainless steel spring for long life
- Low profile, flat face for flush cutting

REF	
FF6	
PSPG2	Spare springs

Note: Repetitive hand action can lead to incidence of repetitive use syndrome (carpal tunnel). Ergonomic cutters shown on the following pages are recommended; however, operators should take frequent rests and use wrist support.

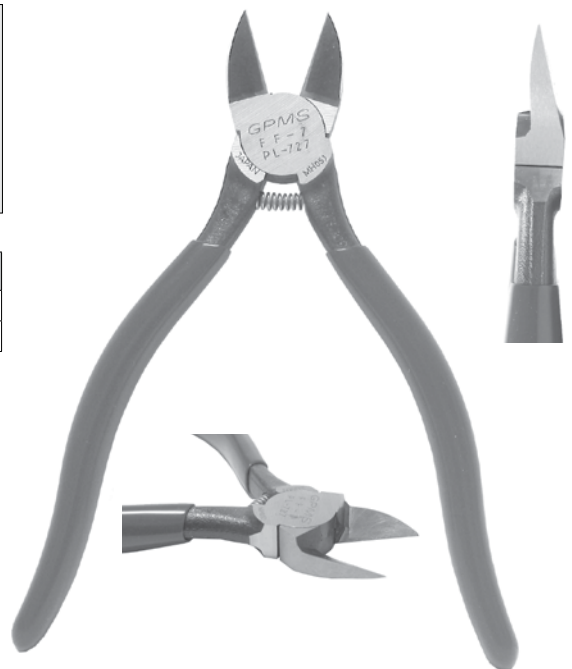
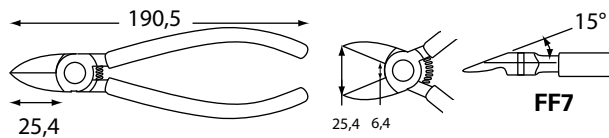


7" Flat Faced Cutter

FF

- Precision-ground and hardened, ultra-sharp cutting blades
- Precision blades cut with a 'snap'
- Flat Back for flush cutting
- Stainless steel spring for long life
- Low profile, flat face for flush cutting
- Made from our own dies

REF	
FF7	
PSPG3	Spare springs



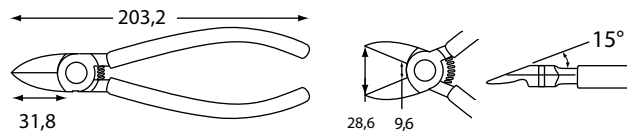
FF

8" Flat Faced Cutter



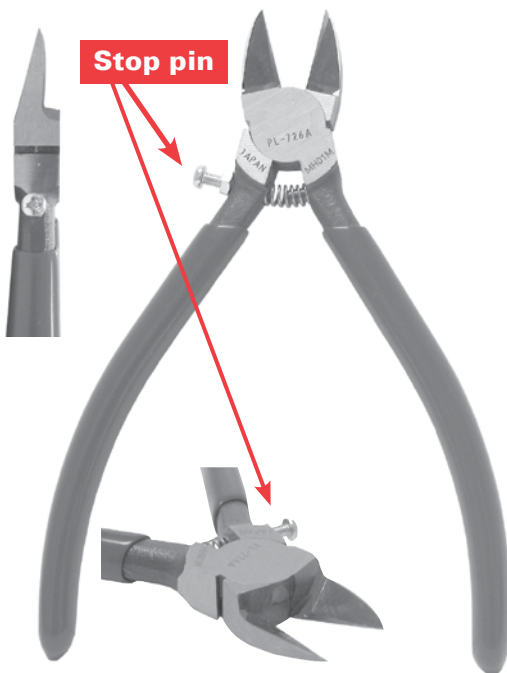
- Special Plastic Cutting Pliers
- Flat Back for flush cutting
- Precision blades cut with a 'snap'
- Precision-ground and hardened, ultra-sharp cutting blades
- Made from our own dies

REF	
FF8	
PSPG3	Spare springs



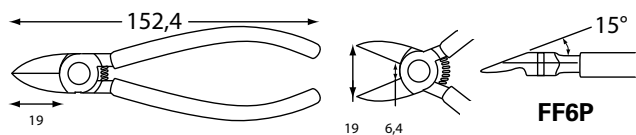
FF

6" Flat-Faced Adjustable Stop



- Low profile, flat face for flush cutting
- Heavy-duty, large-profile blades
- With adjustable stop pin screw. Ideal for use with brittle plastics
- Prevents blades from touching; increases life

REF	
FF6P	
PSPG3	Spare springs

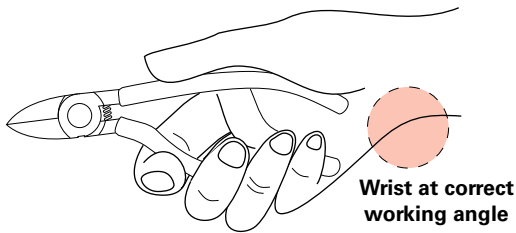
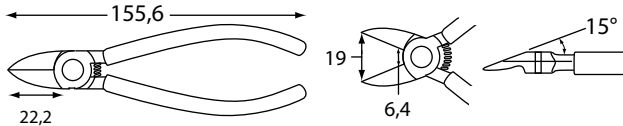


6" Flat Faced Ergonomic Cutters

FF

- Ergonomic cutters – Help prevent carpal tunnel syndrome
- Flat Back for flush cutting

REF	
FF6EL	Left hand
FF6ER	Right hand
PSPG2	Spare springs

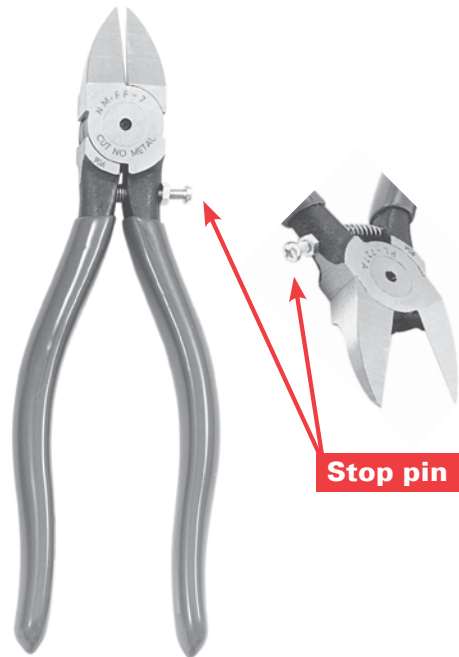
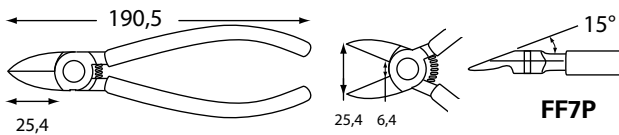


7" Flat-Faced Adjustable Stop

FF

- Low profile, flat face for flush cutting
- Heavy-duty, large-profile blades
- With adjustable stop pin screw. Ideal for use with brittle plastics
- Prevents blades from touching; increases life

REF	
FF7P	
PSPG3	Spare springs



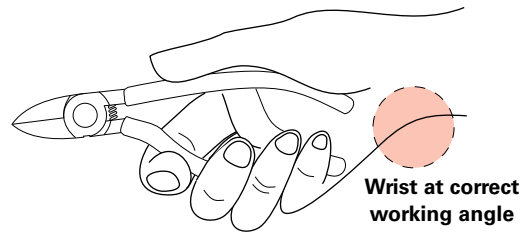
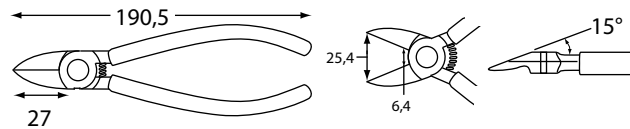
FF

7" Flat Faced Ergonomic Cutters



- Ergonomic cutters – Ideal for repetitive jobs
- Flat Back for flush cutting

REF	
FF7EL	Left hand
FF7ER	Right hand
PSPG2	Spare springs



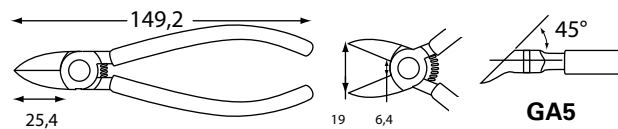
GA

45° Angle Cutters



- Angled Cutters - Ideal for recessed sprues
- Made from our own dies
- Low profile
- Stainless steel spring for long life

REF	
GA5	
PSPG2	Spare springs

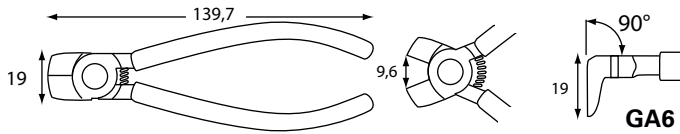


90° Angle Cutter

GA

- Angled Cutters - Ideal for recessed sprues
- High-quality precision 90° cutter with standard lap hinge

REF	
GA6	

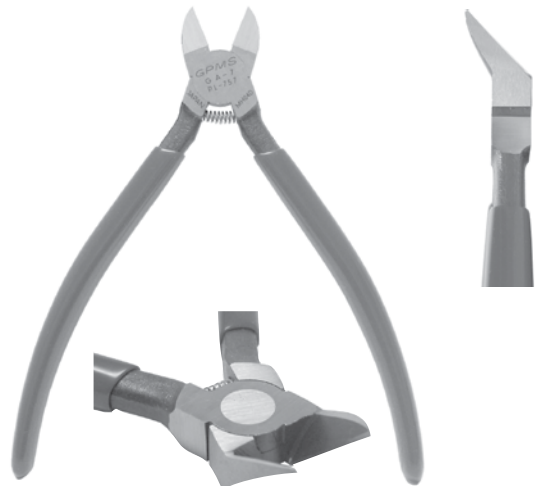
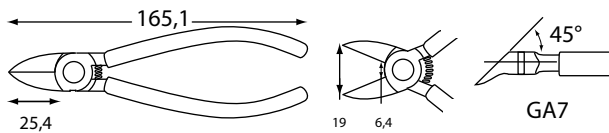


45° Angle Cutters

GA

- Angled Cutters - Ideal for recessed sprues
- Made from our own dies
- Low profile
- Stainless steel spring for long life

REF	
GA7	
PSPG2	Spare springs



GR

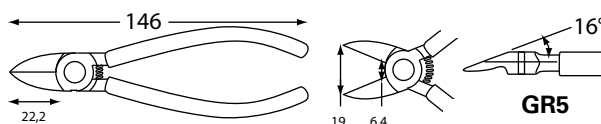


6" Flat Faced Cutter

- Specially Designed for the Plastics Industry
- New Hardened Spring
- Precision blades cut with a 'snap'
- Electronically hardened cutting edge
- Low profile, flat face for flush cutting
- Bonded plastic grip
- Lightweight (4 oz.) + perfect balance = less operator fatigue
- made from our own dies and produced in large quantities
- ideal for small to medium parts where much repetitious cutting is involved

REF	
GR5	
PSPG2	Spare springs

Note: Repetitive hand action can lead to incidence of repetitive use syndrome (carpal tunnel). Ergonomic cutters shown on the following pages are recommended; however, operators should take frequent rests and use wrist support.



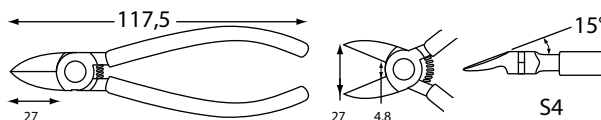
S



4" Nipper Type Cutters

- Small but with strong head - for limited access, tough cutting jobs
- Precision-ground and hardened, ultra-sharp cutting blades
- Stainless steel spring for long life
- Precision blades cut with a 'snap'
- Slightly rounded back

REF	
S4	
PSPG2	Spare springs

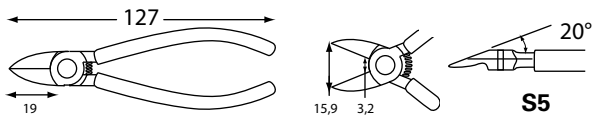


5" Nipper Type Cutters

S

- Thin Points - slightly rounded back - flush cutting
- Precision blades cut with a 'snap'
- Ideal Nipper for small hands
- Made from our own dies
- Stainless steel spring for long life
- Low profile

REF	
S5	
PSPG2	Spare springs

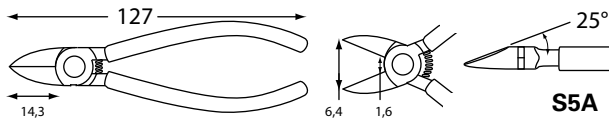


5" Nipper Type Cutters

S

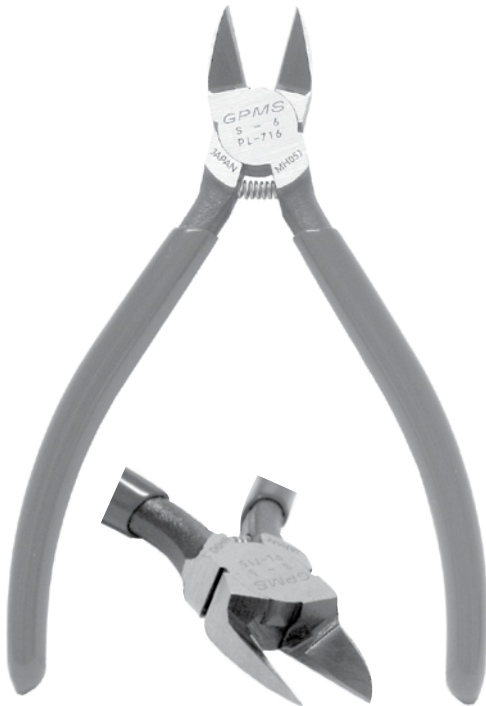
- Small but with strong head - for limited access, tough cutting jobs
- Precision-ground and hardened, ultra-sharp cutting blades
- Stainless steel spring for long life
- Precision blades cut with a 'snap'
- Slightly rounded back

REF	
S5A	
PSPG4	Spare springs



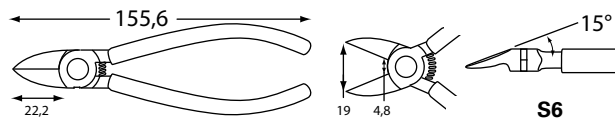
S

6" NipperType Cutters



- Thin Points - slightly rounded back - flush cutting
- Precision-ground and hardened, ultra-sharp cutting blades
- Ideal Nipper for small hands
- Made from our own dies
- Stainless steel spring for long life
- Low profile

REF	
S6	
PSPG2	Spare springs



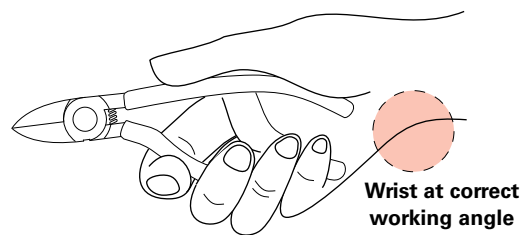
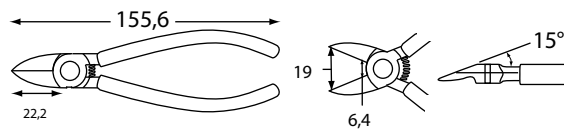
S

6" NipperType Ergonomic Cutters



- Special curved handle shape reduces stress on wrist - ideal for repetitive tasks
- Precision blades cut with a 'snap'
- Slightly rounded back

REF	
S6EL	Left hand
S6ER	Right hand
PSPG2	Spare springs

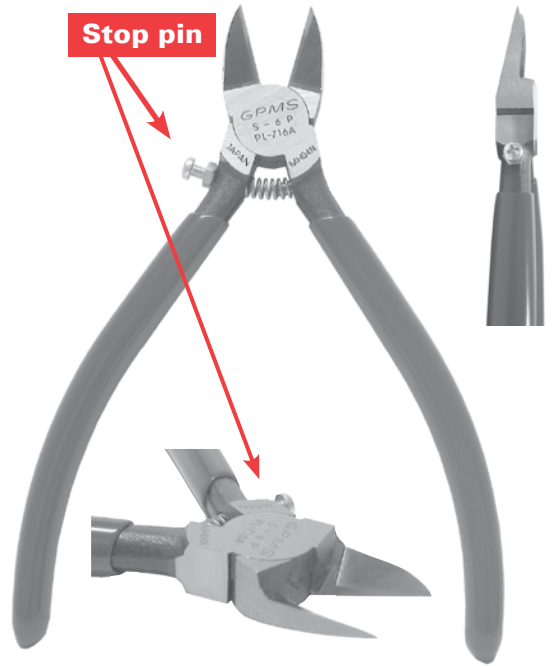
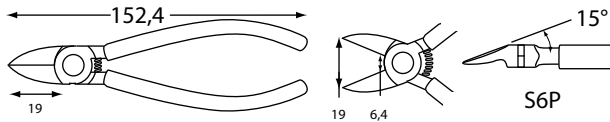


6" with Adjustable Stop

S

- With adjustable stop pin screw; ideal for use with brittle plastics; prevents blades from touching; increases life
- Slightly rounded back
- Made from our own dies

REF	
S6P	
PSPG3	Spare springs

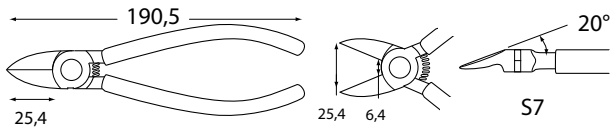


7" Nipper Type Cutters

S

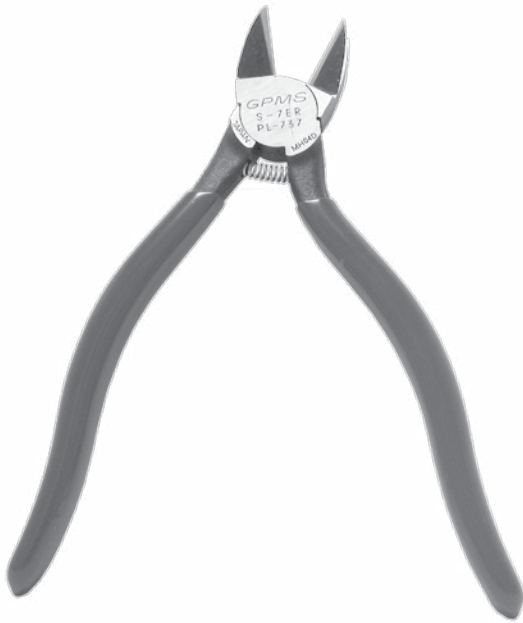
- Ideal Nipper for heavy sprues
- Precision blades cut with a 'snap'
- Low profile
- Slightly rounded back
- Made from our own dies
- Stainless steel spring for long life

REF	
S7	
PSPG3	Spare springs



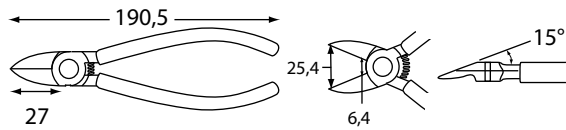
S

7" Nipper Type Ergonomic Cutters



- Special curved handle shape reduces stress on wrist - ideal for repetitive tasks
- Precision blades cut with a 'snap'
- Slightly rounded back

REF	
S7EL	Left hand
S7ER	Right hand
PSPG2	Spare springs



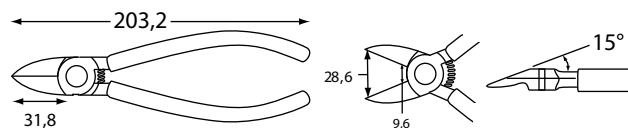
S

8" Nipper Type Cutters



- Special Plastic Cutting Pliers
- Thin Points - slightly rounded back - flush cutting
- Made from our own dies
- Precision blades cut with a 'snap'
- Precision-ground and hardened, ultra-sharp cutting blades
- Slightly rounded back

REF	
S8	
PSPG3	Spare springs



Nipper pliers for cutting off sprues - Straight cutting edge

SN 1150

Mat.: Induction hardened cutting edges

REF Lay-on joint	L
SN 1150A L=135	135
SN 1150A L=150	150
SN 1150A L=165	165



Nipper pliers for cutting off sprues - Convex cutting edge

SN 1151

Mat.: Induction hardened cutting edges

REF Lay-on joint	L
SN 1151A L=135	135
SN 1151A L=150	150
SN 1151A L=165	165



Nipper pliers for cutting off sprues

SN 1153

Cutting edge; A: 35° - 40° - D: 40° - 45°
Mat.: Induction hardened cutting edges

REF Lay-on joint	L
SN 1153A L=135	135
SN 1153A L=150	150
SN 1153A L=165	165



Nipper pliers for cutting off sprues - Cutting edge 90°

SN 1154

Mat.: Induction hardened cutting edges

REF Lay-on joint	L
SN 1154A L=150	150



PZ 7-3



Pneumatic pliers for cutting off sprues

Suitable for pliers Inserts allowing cuts up to 3,5 mm pliers opening. Appropriate inserts for pliers are Ze 3, ZeV, Ze 4.

Compr.-air consumption/cut	~78 cm ³
Pliers opening	3,5 mm
Hose	1,5 m
Connection Nipple	R 1/4"
Pmax	6 bar

The pneumatic pillers PZ 7, PZ 8A and PZ 8B can be supplied with special inserts for handling devices

REF

PZ7-3

PZ 7



Pneumatic pliers for cutting off sprues

Suitable for pliers Inserts allowing cuts up to 10 mm pliers opening. Appropriate inserts for pliers are Ze 3, ZeV, Ze 4. With safety-device!

Compr.-air consumption/cut	~300 cm ³
Pliers opening	10 mm
Hose	1,5 m
Connection Nipple	R 1/4"
Pmax	6 bar

The pneumatic pillers PZ 7, PZ 8A and PZ 8B can be supplied with special inserts for handling devices

REF

PZ7

PZ 8A - PZ 8B



Pneumatic pliers for cutting off sprues

Suitable for pliers Inserts allowing cuts up to A: 10 mm / B: 14 mm pliers opening. Appropriate inserts for pliers are Ze 3a, ZeVa, Ze 4a. With safety-device!

Compr.-air consumption/cut	~425 cm ³
Hose	1,5 m
Connection Nipple	R 1/4"
Pmax	6 bar

The pneumatic pillers PZ 7, PZ 8A and PZ 8B can be supplied with special inserts for handling devices

REF

PZ 8A

PZ 8B

Plier inserts for pneumatic pliers

ZE 3 - ZE 3A

REF	Plastic Ø	Cu Ø	Al Ø
PZ7-3	3,0	3,0	3,0
PZ7	8,0	4,0	4,0
PZ8A	8,0	5,0	4,0
PZ8B	12,0	4,0	4,0

Cutting performance of plier inserts when used in pneumatic pliers



REF	for
PZ7-3	PZ7-3 / PZ7
ZE3 A	PZ8A / PZ8B

Plier inserts for pneumatic pliers

ZE 3V - ZE 3VA

REF	for
ZE 3V	PZ7-3 / PZ7
ZE 3VA	PZ8A / PZ8B



Plier inserts for pneumatic pliers

ZE 4 - ZE 4A

REF	Plastic Ø	Cu Ø	Al Ø
PZ7-3	3,0	3,0	3,0
PZ7	9,0	3,5	3,5
PZ8A	9,0	5,0	4,5
PZ8B	12,0	3,5	3,0

Plier insert induction hardened to 58 HRC. Cutting performance of plier inserts when used in pneumatic pliers

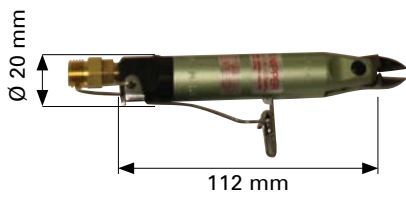


REF	for
ZE4	PZ7-3 / PZ7
ZE4A	PZ8A / PZ8B

MR3

Pneumatic cutters - hand held or bracket mounted

Blade not included



- 265 N cutting power (blade sold separately)
- Air consumption: 35 cm³/stroke
- Air pressure: 0,4~0,5 MPa
- Weight: 90 gr
- **Blade F10 (Standard)**
- 1/4" NPT fitting
- Cutting capacity plastic: max 1 mm
- **Blades - see next page**

REF

MR3

MR10

Pneumatic cutters - hand held or bracket mounted

Blade not included



- 580 N cutting power (blade sold separately)
- Air consumption: 116 cm³/stroke
- Air pressure: 0,4~0,5 MPa
- Weight: 200 gr
- **Blade F3 (Standard)**
- 1/4" NPT fitting
- Cutting capacity plastic: 2,6 - 4 mm
- **Blades - see next page**

REF

MR10

MR30A

Pneumatic cutters - hand held or bracket mounted

Blade not included



- 2740 N cutting power (blade sold separately)
- Air consumption: 584 cm³/stroke
- Air pressure: 0,5~0,6 MPa
- Weight: 520 gr
- **Blade F9P (Standard)**
- ***Different sizes of blades available for these particular models!**
- 1/4" NPT fitting
- Cutting capacity plastic: 6,5 - 13 mm
- **Blades - see next page**

REF

MR30A

Pneumatic cutters - hand held or bracket mounted

MP35A

- Heavy duty
- 4410 N cutting power (blade sold separately)
- Air consumption: 956 cm³/stroke
- Air pressure: 0,5~0,6 MPa
- Weight: 830 gr
- 1/4" NPT fitting
- **Blade F9P* (Standard)**
- *Different sizes of blades available for these particular models!
- Cutting capacity plastic: 6,5 - 13 mm
- **Blades - see below**



REF MP35A

Blades

Info

		REF Blade	REF Cutter	a	b	c	f	Cutting Capacity Ø mm	
								Soft plastic	Hard plastic
Plastic Cutting		F10	MR3	24	12	2,5	15	1,0	-
		F3	MR10	27	12	4,5	25	4,0	2,6
		F9P	MR30A - MR35A	65	38	15	15	10,0 - 13,0	6,5 - 6,5
Level Cutting for plastic		FD10	MR3	24	10	2,5	40	1,0	-
		FD3	MR10	27	10	4,5	40	4,0	2,6
		FD9P	MR30A - MR35A	59	27	14	30	10,0 - 13,0	6,5 - 6,5
Flat surface for plastic		F10S	MR3	24	12	2,5	-	1,0	-
		F3S	MR10	27	13	4,5	-	4,0	2,6
		F9PS	MR30A - MR35A	65	37	15	-	10,0 - 13,0	6,5 - 6,5

= Standard

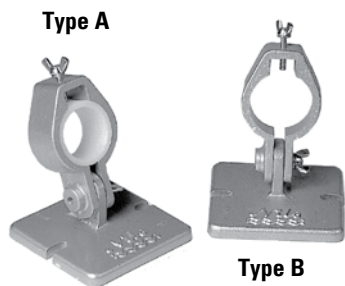
How to order

Info

Ordering example: **MP35A + F9P**
REF cutter REF blade

MB...

Mounting Brackets

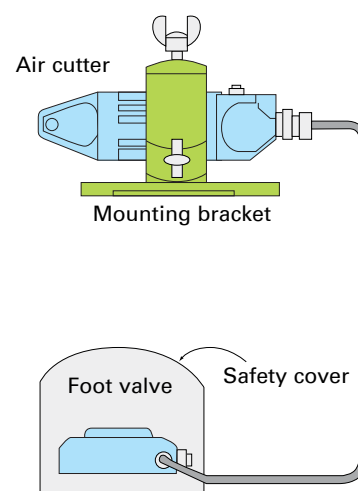
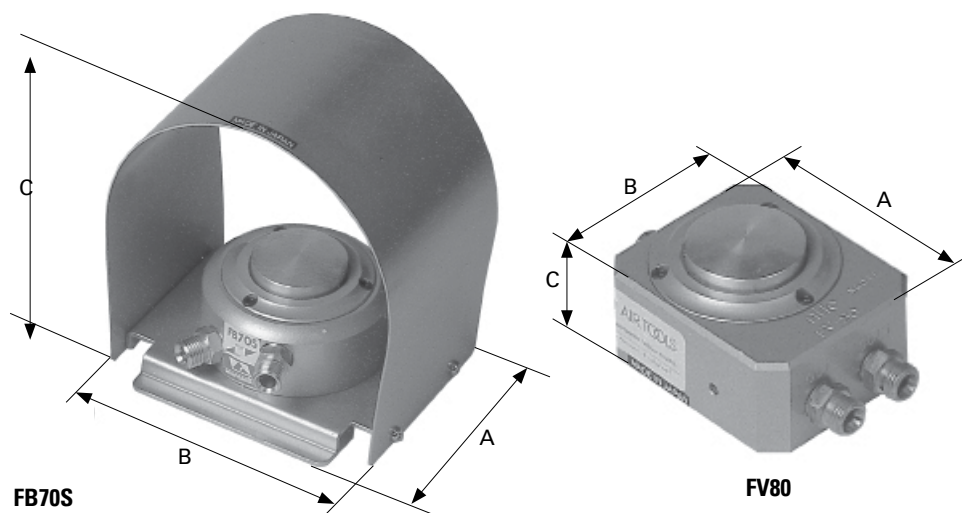


- Type A: Mounting Bracket for MR-3 to MR-10 (dia. range = < 46 mm)
- Type B: Mounting Bracket for MR30A to MP35A (dia. range = 48 - 56 mm)
- All brackets: Base= 140 x 120 mm
- Height: 118 mm

REF
MBA
MBB

FB70S - FV80

Foot valves



REF	Weight (g)	A (mm)	B (mm)	C (mm)
FB70S	970	110	122	145
FV80	600	83	69	48

- For use with all pneumatic cutters with one air inlet NPT fittings.

Helicol-Combi® Tool Balancing System

Applications:
Balancing and supplying portable pneumatic tools.

- On pre-assembly and assembly workstations.
- On spot-welding and riveting stations.
- On packaging lines: staplers, hoop binders, nailing heads.

2 functions of balancing and supplying the compressed air in one single integrated vertically suspended apparatus.
Fitted with a robust safety chain which prevents the spring from being strained, and a safe platform for suspension of larger air driven tools.

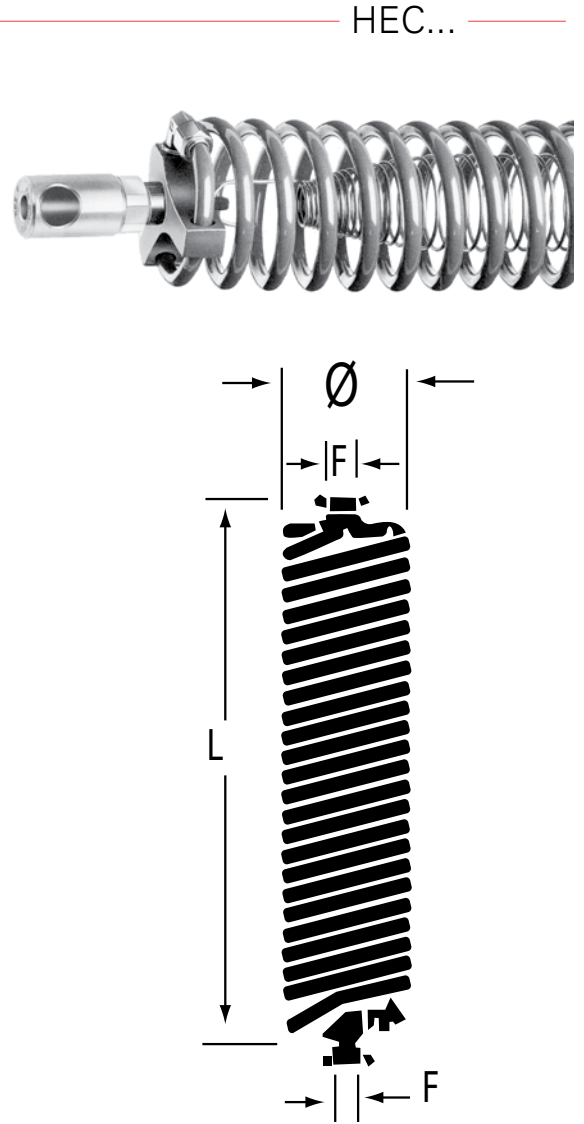
Installation:

- Determine the attachment point for your balancing unit after having mounted the air driven tool on the free end. You will then obtain the effective height.
- Attach the balancing unit to a bracket. Helicol-Combi® can be attached in a number of ways: by direct thread, with quick-release connectors, flexible hose, or chain type suspension.

Construction:

- Hose in special light protected blue color Polyamid 12.
- Model HEC 50 is fitted with the SL type safety chain.

	For tools up to	For tools from
	4.5 lbs.	4.5 to 11 lbs.
Tube ø	1/4"	3/8"
L	10" (254 mm)	15" (381 mm)
max. extension	40" (1016 mm)	70" (1778 mm)
Thread F	1/4"	3/8"
Coil ø	3-1/8"	4"
REF	HEC2002	HEC5002

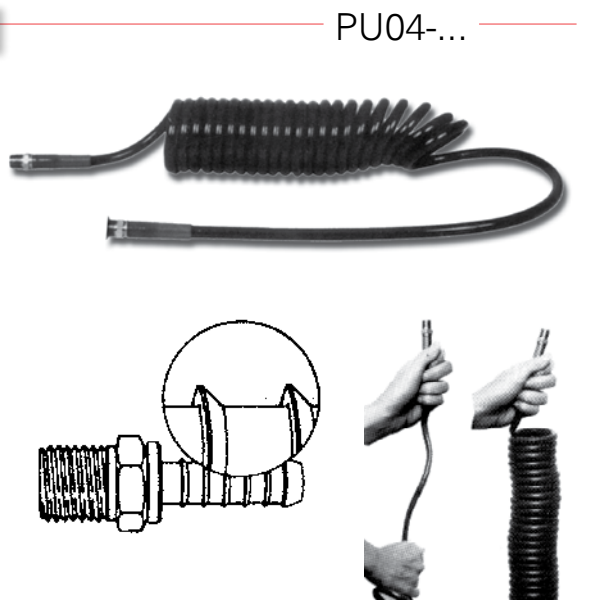


Polyurethane Recoil

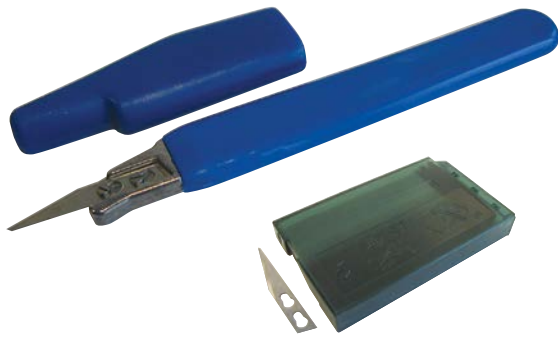
- Extremely flexible - resists kinking
- Impervious to abrasion & heat
- Made with pigtails on coil - no need for whip hoses
- Less operator fatigue - low tension
- Superior elasticity & coil memory
- Special full flow fittings

The barb fittings used with our polyurethane hose are designed with this unique serrated gripping surface to hold the hose in place, especially under pressure.

REF	Hose Size	Male Swivel	Hose Length
PU04-10S	1/4"	1/4"	10' (3,0 m)
PU04-15S			15' (4,6 m)
PU04-20S			20' (6,1 m)
PU04-25S			25' (7,6 m)



EM 1150 / EM 1150E



Trimming knives for plastic parts / Spare blades set

REF	L
EM1150	155
REF	Pcs.
EM1150E	100

WF 620



Deburring tool

REF
WF 620

Safe deburring of hard plastics, non ferrous metals and mold steels.
Ceramic blade

WF 1540

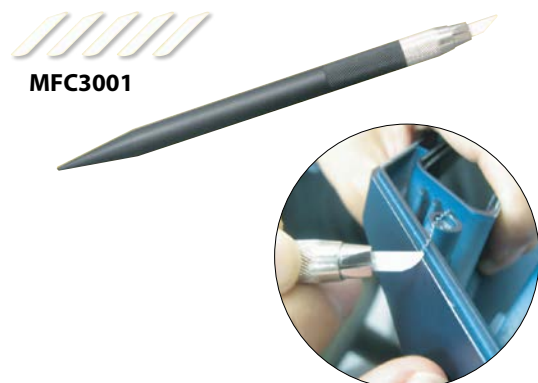


Deburring tool

REF
WF 1540

Safe deburring of hard plastics, non ferrous metals and mold steels.
Ceramic blade

MF 400



Micro Finish precision deburring tool

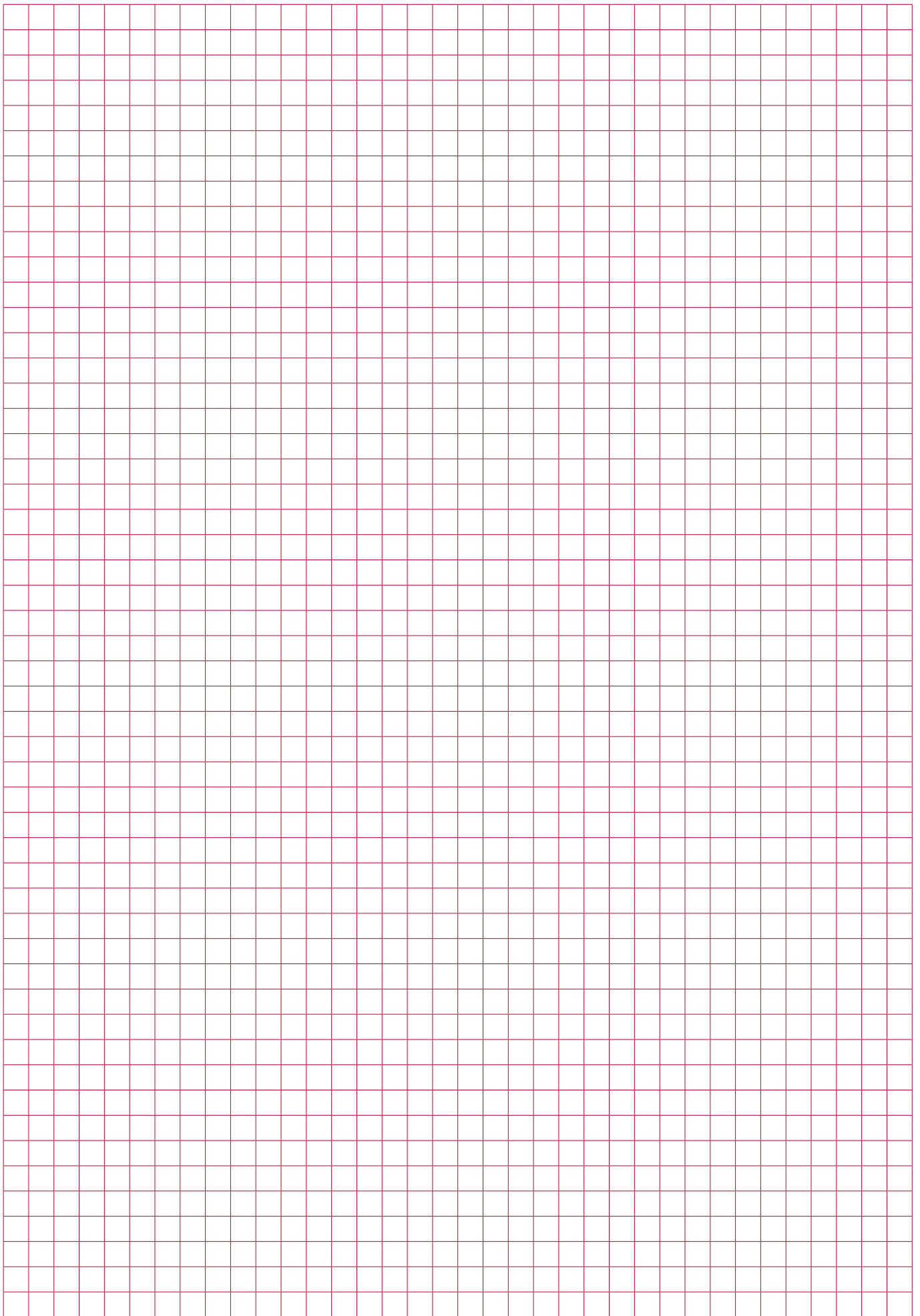
Features:

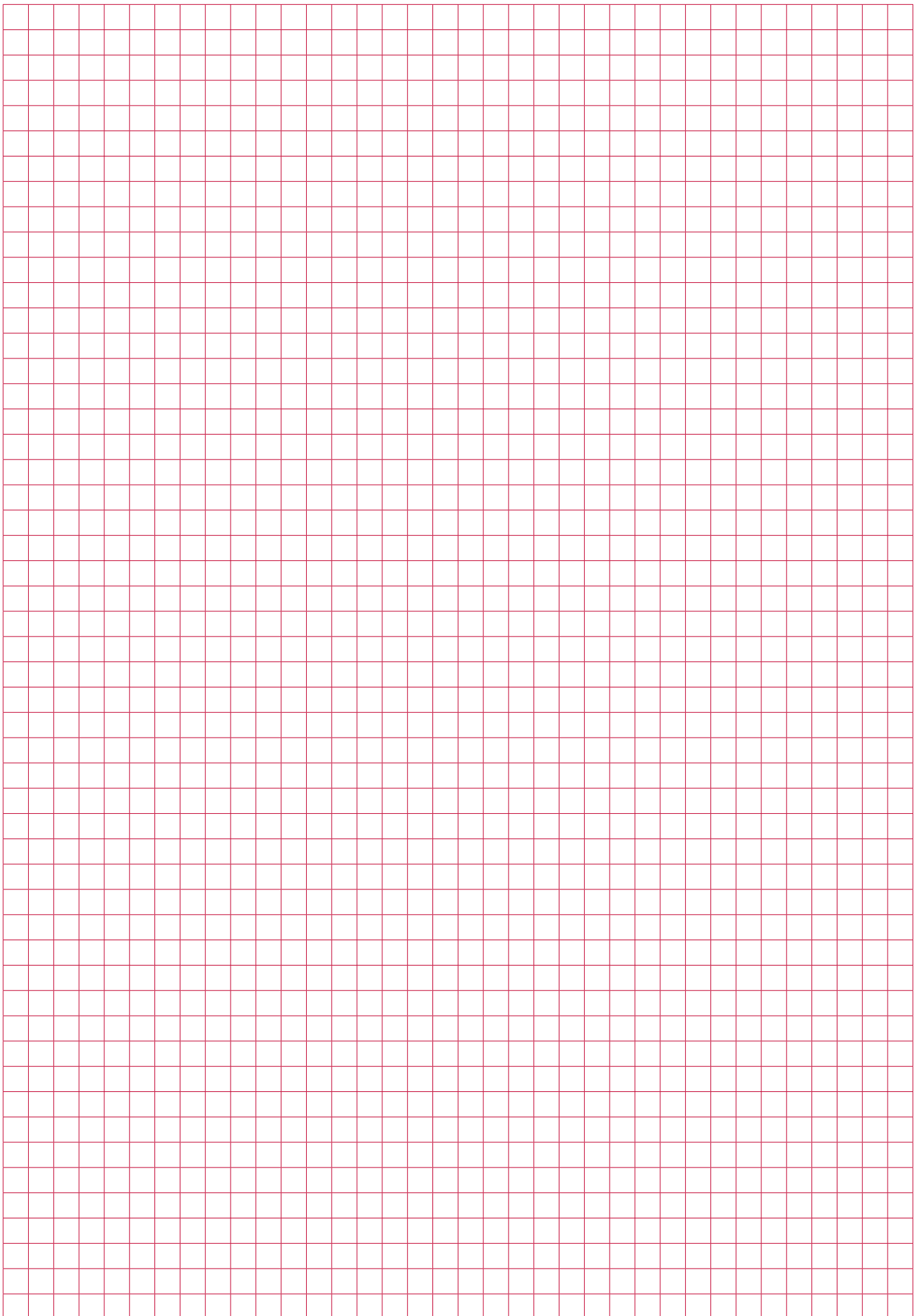
- Ideal for curved and complicated shapes
- Safe, ceramic knife without sharp edges
- Includes 2 blades and protective cap

Also available:

Spare ceramic blades set of 5 (MFC3001)

REF
MF400







RELEASE & LUBRICANTS



Release & Lubricants

Sprays 426



Release & Lubricants



ECO-22



Silicone free mold release agent

REF	ml
ECO-22	12 x 400

- Universally applicable silicone-free release agent
- Faultless part removal
- Best surface and protection of tools
- Checked by FABES Forschungs GMBH and approved towards the FDA regulations for production of parts related to food
- ECO-22 doesn't contain chlorinated or mineral oil additives
- Processing temperatures up to 180°C
- Active substances are from natural sources and none of the materials cause corrosion.
- Maintains lubricating effect
- Silicon free: Parts removed with mold release agent may be printed, coated, metallized or bonded
- Filled with propellant gas (butanepropane)
- Excessively greasy parts can be lightly cleaned with water and detergent

ECO-33



Silicone mold release agent

REF	ml
ECO-33	12 x 400

- Release agent for plastics and rubber
- Protects molds and maintains their bright finish
- Checked by FABES Forschungs GMBH and approved towards the FDA regulations for production of parts related to food
- Facilitates removal of molded parts and reduces waste percentage
- ECO-33 is guaranteed harmless to humans and nature and active substances are physiologically accepted
- Processing temperatures -40°C up to 250°C
- Maintains lubricating effect
- Filled with propellant gas (butane-propane)

Silicone-free mold release agent

C 150

REF	ml
C150	400

C 150 has excellent release effects and low consumption as a thin film guarantees best results. The ignition point of our mold release agent C 150 means that even at maximum injection temperatures vapour bubbles or combustion residues cannot be formed. Any subsequent treatment of the injection moldings, like printing, lacquering, metallizing etc. is possible without removing the release agent. C 150 is non-aggressive and can easily be rinsed off. Our mold release agent C 150 cannot be used for working with polycarbonates.
Open bulks on request!



Silicone release agent

C 155

REF	ml
C155	400

This solvent free spray is recommended for the applications of natural and synthetic rubber, for elastomers and thermoplastics (not for silicone rubber).
Temperature range to 180°C.
Open bulks on request!



Silicone-free release agent for polycarbonates

C 158

REF	ml
C158	400

This spray which is basing on special synthetic oils is recommended for polycarbonate injection molding. Any subsequent treatment like lacquering, printing, metallizing and glueing is possible. Generally recognized as safe. C 158 is released for the BAYER AG product Makrolon.
Temperature range to 150°C.
Open bulks on request!



Mold cleaner

C 126

REF	ml
C126	500

C 126 is a special cleaner to remove resin and rubber residues, plastic deposits like PVC, PA, PI, PU, and acrylates. Applications. cleaning of plastic molds, injection and spinning nozzles, removal of adhesive residues, lacquer, and tar. The cleaning effect can be accelerated by heating to 80° C the parts which have to be treated.
The product is well biodegradable.



C 120



Grease solvent

REF	ml
C120	500

C 120 softens coatings of oil and grease so that they are easily removable. With heavy residues it might be necessary to spray for a second time after wiping off. Grease solvent C 120 is particularly suitable for cleaning metal parts before pouring in, glueing, varnishing or other work. It may also be used for removing marking colour C 130 but is not suitable for the treatment of varnished surfaces, rubber and insulating parts.

C 110



Rust-solving oil

REF	ml
C110	400

C 110 loosens slightly rusted or tightly jammed screws, nuts or press joints and removes even thick films of rust on metal parts. Various additives ensure high lubricating effect and permanent rust protection. Eliminates squeaking.

C 100



Anti-corrosion agent (crystal clear)

REF	ml
C100	400

C 100 provides an effective protective film on all metal parts to be protected from rust. The metal surfaces or parts are sprayed, thus protecting them permanently from oxidation. C 100 is crystal-clear and non-aggressive. It can be removed by any solvent as well as by petrol, benzene or grease solvent C 120.

C 106



Transparent anticorrosion agent

REF	ml
C106	500

C 106 provides high protection of ground and polished standard parts, injection molds, etc., both during storage and for local transport. The thin waxlike film which is left after spraying on is solid in ageing, does not tear or resinate and is almost impervious to vapours, gasses, steam, and salts. Due to low viscosity inaccessible parts can reliably be moistened and protected. C 106 is chlorine-, nitrite-, and barium-free and is according to VW specification PV 52.02 easily removable even after a long period in stock.

Synthetic lubricant (spray) / Lubrication paste

C 138 / C 139

REF	ml
C138	500
C139	150

C 138 and C 139 are used when glide elements, apparatus and machinery should not be contacted with mineral oil containing lubricants. Even under wet, moist conditions oxidation free, high purified raw materials ensure a permanent lubrication film. The product is physiologically safe and without solid matter. Temperature range: -30°C - +125°C



High temperature release and lubrication spray / Lubrication paste

C 143 / C 144

REF	ml
C143	500
C144	150

C 143 and C 144 are pure, ageing-free lubricants with equally distributed small copper platelets. It prevents development of cold welds and corrosion at high temperatures and aggressive conditions. Bolted connections, fits, glide surfaces made of steel, aluminium, etc.. remain easily dismountable or movable even after a long time in extreme environments. Additional applications: plugs, bolts, splines, sealings, shafts, guide elements, etc. in the field of metal-diecasting or injection molding. Plastics and sealing materials are not attacked. Seizure of cartridge heaters is eliminated. The product is chlorine-free and resistant to pressure. Temperature range: -30°C -> +800°C



Special high-efficiency oil with MoS₂

C 160

REF	ml
C160	400

C 160 provides excellent emergency running properties and is particularly suitable for highly stressed axial guides with close tolerances, e.g. die sets and similar equipment. The addition of molybdenum reduces friction.



Multi-purpose lubricant (spray) / Lubrication paste

C 167 / C 168

REF	ml
C167	500
C168	150

C 167 and C 168 are heavy-duty lubricants without solid particles and with high pressure enduring properties. The lubricating film does not tear even under extreme conditions, thus the lubrication intervals are prolonged considerably. C 167 and C 168 is used for all moving parts in injection and diecasting molds in the field of metal and plastics processing, eg. ejector pins, coarse pitch axles, etc. Temperature resistance to +180°C.



RZ 30



Mold releasing and lubricating agent with Teflon

REF	ml
RZ30	400

RZ 30 provides a waxlike release film being superior by its outstanding parting effect and very good lubricating properties. By spraying a surface (e.g. punching die) once or twice, it is possible to determine the guide clearance of a punch guide to be made with casting resin RZ 20. The melting point of the film is above 240°C. The sprayed-on mold releasing and lubricating agent is insoluble in water and organic solvents. RZ 30 provides clean lubrication and release without any contamination. TRI or C 120 grease solvent are used for removing the release and lubricating film. Spray at room temperature.

RZ 20



Casting compound for die manufacturing

Processing Instructions:

- Stir up contents thoroughly before using
- Observe mixing ratio exactly by weight (5 – 100)
- Instructions for use (see overview)
- Close container carefully after using
- Use only where good ventilation is ensured. Avoid inhalation of vapours for longer periods of time and any contact with skin
- Wearing of plastic gloves will normally be necessary

Mix Ratio	Parts by Weight	
Resin	100	
Hardener	5	
Color	Bleu	
Processing temperature	°C	18 – 25
Viscosity at 25°C	mPas	15.000
Pot Life at 25°C	Min	45-80
Max Layer Thickness	mm	30
Demoulding Time at RT	h	16
After Cure : 7 days at RT or 14 hours at 60°C		
Density	ISO 1183 g/cm ³	2
Hardness	ISO 868 Shore D	85-90
Coefficient of thermal expansion	ISO 11359 10 ⁻⁶ k ⁻¹	35
Deflection temperature	ISO 75 °C	65 – 70
Compressive strength	ISO 604 Mpa	140
Compressive modulus	ISO 604 MPa	11.000 -11.500
Flexural strength	ISO 178 MPa	110
Linear Shrinkage	mm/m	0.05
Abrasive resistance	Taber mm ³ /100U	22
Storage (months)		12

Casting compound for the die manufacturing

RZ 20

The compound consists of a black, medium viscosity epoxy resin and a clear liquid hardener.

Material characteristics:

1. high abrasion resistance
2. high compressive strength
3. high edge tear tolerance
4. minimum hardening shrinkage

A maximum casting thickness up to 25 mm can be realized in open moulds.

Applications:

Casting of piercing punch guides, embedding castings of punches, guide bushes and guide pillars. Parts which do not adhere with the casting compound must be treated with the mold releasing and lubricating agent RZ 30. The clearance of the punch guide can be influenced by the thickness of the mold release agent which is sprayed on the surface. The clearance can also negatively be influenced by the greater thermal expansion coefficient of the plastics if fluctuations of temperature occur and so a determined value should not be exceeded. The proper value should vary between 2 and 6 mm - for the casting of hardened guide bushes with or without collar the clearance should be 2-10 mm. Dies which are furnished with casting compound punch guides should be heated up to room temperature before they are mounted in the press.



REF	Bulk
RZ20	1 x 500 g Resin 1 x 25 g Hardener

Plastilin

RZ 65

REF	Working set
RZ65	1 x 1 kg = 2 x 0,5 kg

Rz 65 is used for the following applications: mould making, in the field of modelling, to close and to seal holes and recesses at dies when casting guides, etc.
Features: industry quality
Colour: grey-green



Plastic-steel

PS 220

REF	Bulk
PS220	1 x 450 g Resin 1 x 50 g Hardener

Aluminium filled, liquid epoxy resin used for moulding duplicate parts and forms and injection moulding dies which are subject to extreme thermal stress. Temperature range up to 220°C. The material is nonrusting, antimagnetic and cures nearly without shrinking. The process of pre-curing as well as post-curing at 120°C produces highly-refractory castings.



DME 63



Conductive grease - spray

REF	ml
DME63	400

T = -180°C to +1200°C
Protects parts effectively against corrosion and oxydation, prevents welding and fretting corrosion and reduces friction. Non toxic, non leaded, resistant to alkaline solutions and acids.

MS 110

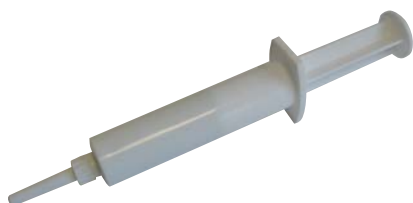


Conductive grease - paste

REF	g
MS110	450

T = -180°C to +1200°C
Protects parts effectively against corrosion and oxydation, prevents welding and fretting corrosion and reduces friction. Non toxic, non leaded, resistant to alkaline solutions and acids.

MS 120



Conductive grease - injection dispenser

REF	g
MS120	10

T = -180°C to +1200°C
Protects parts effectively against corrosion and oxydation, prevents welding and fretting corrosion and reduces friction. Non toxic, non leaded, resistant to alkaline solutions and acids.

C 210-1 / C 210-2 / C 210-3



Nondestructive testing, liquid penetrant methods

REF	ml	
C210-1	500	cleaner
C210-2	500	penetrant, contrast red
C210-3	500	developer

Nondestructive testing acc. to the Red-White penetrent method. Application within temperature ranges to 0-60°C

Working procedure:

1. Cleaning of surface
2. Application of penetrant
3. Removal of penetrant
4. Drying of surface
5. Application of developer
6. Surface inspection and documentation

Marking color (blue)

C 130

REF	ml
C130	300

C 130 is suitable for small and large workpieces. It provides a homogeneous, adhering color film on the surface to be marked. The color dries on immediately and is easily removable by grease solvent C 120.
Open bulks on request!



Tightness test spray for fluids

C 220

REF	ml
C220	400

C 220 is a liquid, non-toxic, not inflammable, non-corrosive, biodegradable agent. It is used for tightness tests of pipes and facilities filled with inflammable gas (also for pipes with compressed air, oil, fuel and vapour).
Instruction for use: Spray the surfaces to be tested. Haircracks and pores are now indicated by the developing of long time adhering bubbles or foam.
Caution: When testing oxygen facilities do not spray C 220 in the interior due to risk of inflammation.



Purifying agent

Kapusol

REF	ml
Kapusol	750

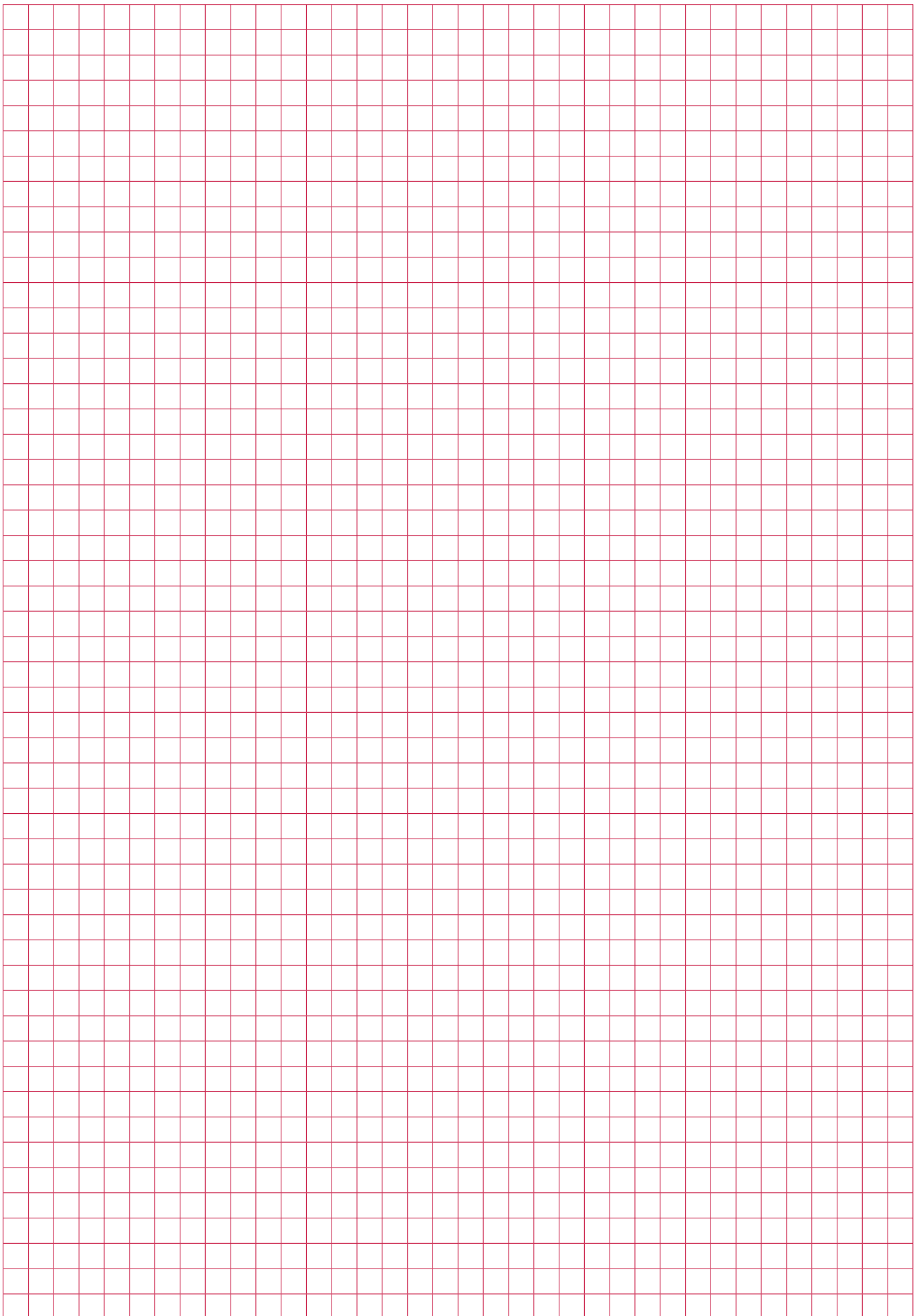
Prepare 25 kg of cleaning compound with this bottle of KAPUSOL!

Directions for use

Kapusol is a purging agent for cleaning the screw of injection and extruding machines. It can be used for colour and material changing's. Mix this bottle of KAPUSOL with 25 kg of pellets to be processed till a dry blend. Avoid wet lumps. KAPUSOL can be used at the normal temperature of most materials. Better result will be achieved if during the purge the temperature is 15% under normal.

Also for hand-use as a super-polishing product.







MILACRON®

INDEX



Symbols

200 - 300 - 500	113
200 / 300 / 500 - 45°	134
200 / 300 / 500 - 90°	134

A

A	14
AD	72
AN	135, 151
ANE	132
AR	48
ASEA...	326
ATN	104
AZ ...	355

B

B ...	325
B 0 ...	368
BA	244
Bakra	71
BB	146, 148
BBP - BBJ	144
BBS	147, 149
BEP	105
BLH 600	267
BLH 600 ST	267
BLHADA	267
BO 602.... - BO 802...	367
BS 7 ...	368
BS 21	367
BS 33	261
BS 36	367
BS 60	368
BS 150 ...	378
BS 806	368
BSS	138
BWA 35	274
BWA 35i	274
BWA 45	275
BWA 50	275
BWA 55	275
BWA 65	275

C

C 100	428
C 106	428
C 110	428
C 120	428
C 126	427
C 130	433
C 138	429
C 139	429
C 143	429
C 144	429
C 150	427
C 155	427
C 158	427
C 160	429
C 167	429
C 168	429

C 210-1	432
C 210-2	432
C 210-3	432
C 220	433
CHE28	28
C-HPM-B1	305
C-HPM-BL1	304
C-HPM-BL2	304
COLM	165
CSS	67

D

D ...	319, 320, 321, 322, 323
DB	114
DBE...	311
DBE-Set	311
DBH...	313
DBH-Set	313
DD	234
DF ...	277
DF 30 ...	369
D/G	306
D ... H3	375, 376, 377
DK	114
DLA...	308, 309
DLE ...	317
DLF ...	316
DLG ...	317
DLG 100 ...	317
DLK ...	308
DLL...	314
DLL-Set	314
DLM...	310
DLM-Set	311
DLN...	309
DLN 100 ...	310
DLQ...	315
DLQ-Set	315
DLS...	312
DLS-Set	312
DLX...	316
DLX-Set	316
DMCA	70
DME 63	159, 432
DME Jiffy N6	96, 97
DME Jiffy N9	98, 99
DME Jiffy N16	100, 101
DO 2000	10
DP 20	369
DP 25	370
DP 30	369
DPU-3	305
DPU-SET-S	336
DR ...	345
DR 1700	162, 163
DR 1710	164
DS	103
DS 150 ...	378
DSH	68
DSP	65
DSPC	66

DSR	57
DSRC	58
DSS	59
DSSC	60
DT 12	379
DT 13	379
DT 14	379
DTP...	326
DW ...	285
DWAL ...	285
DWKU ...	285
DWST ...	285

E

E	13, 14
EAH28	23
EAH-DLC	34, 35
EC 30	266
EC 100	9
EC 145	9
ECH	242
ECO-22	242, 426
ECO-33	426
EDM... - MOL...	330
EHF ...	196
EJP	104
EM	13
EM 1150	420
EM 1150E	420
ENA05	22
ENC05	27
EOA05	21
EP...	254
EP 112	255
EPA05	20
EPC05	26
EPC 10...	255
EPC 107	255
EPC 200	254
EPD28	29, 30
EPF 100	254
EPH 100	254
ERA05	24
ERFAQ	33
ET	138
ETC	245
Euro 9	118, 119
Euro 13	120, 121
EX...	257, 258, 259, 260, 262, 263
EXP230	257

F

F	235
F 12 ...	344
F 21 ...	342
F 25 / F 125	370
F 126	342
F 2111 - F 2116	341
FA 89	77
FA 89-S	77

FA 89-W	77
FB70S	418
FDN	134
FF	402, 403, 404, 405, 406
FH 1 ... - FH 120	395
FH 10 ... - FH 100	394
FH 15 ...	396
FH ... / FH ...X	393, 394
FK	32
FMR/D...	297, 299
FMR/G...	297, 299
FMR/S...	296, 298
FMR-SET-5S	336
FMR-SET-10S	336
FMR-SET-15S	336
FMR/VH	332
FMV/D	301, 303
FMV/G	300, 302
FMV/S	300, 301
FMV-SET-S	336
FN	102, 103
FP	236
FPB/R - FPK/R	293, 294
FPD/R - FPL/R	293
FPK 3 ...	388
FPK 6 ...	389
FPP/R - FPM/R	294
FS ...	380
FS 18	265
FSK	108
FSVK	108
FV80	418
FW	31
FXB - FXK	290, 292
FXD - FXL	291
FXM-SET-L	336
FXM-SET-M	336
FXM-SET-S	336
FXP - FXM	291
FX-PK	328
FXP-SET-L	336
FXP-SET-M	336
FXP-SET-S	336
FX-SK	331

G

GA	406, 407
GF ... - GR ... - GS ... - GK ...	384
GPK ...	386
GPS ...	385
GR	408
GS 1090	139
GW	137, 138
GW-K	137
GW-Z	136

H

H	14
H ...	345
H / A	15
HA 13	82

HA 13 ... E	82
HA 1300 ST	82
HEC...	419
HFH	246
HM ACC ...	274
HM FLEX J	273
HM FLEX J-P	273
HM PRE 24 J	273
HM PRE 24 JP SET	274
HM PRE FC 24 0...	273
HN - PL	129
HPM-B1	305
HSL-M	307

I

IS610	51
-------	----

J

JA 15	263
JA 33	263
JA 45	263
JA 60	261
JA 65	261
JBT	112
JCB	112
JCB-200-300	113
JCB-SV	112
Jiffy Tite	94, 153
JP 11	264
JR...	363
JR 21 90	264
JRS 90	264
JS 21 120	264
JSTK	114
JW	153

K

Kapusol	433
KD 160 ...	344
KE 50155	266
KE 50156	266
KN 105	141
KSD	309

L

LB 2240	85
LB 2260	86
LB 2270	86
LB 2280	87
LB 2290	87
LLB...	329
LLC...	328
LP ...	370
LRP... - LRB...	328
LU 1187	286
LU 2771	286
LUK 2781 ...	286

M

M	51
---	----

M...	329
MAG-093N	281
MAG-121N	279
MAG-122N	280
MAG-123N	282
MAG523...	280
MAG524...	280
MAG526...	280
MAG533...	281
MAG534...	281
MAG536...	282
MB...	418
MB 0 ...	388
MBF	214, 215
MBM	214, 215
MCA	69
MCF	214, 215
MCM	214, 215
MD ... / SD ...	269
MF 310 ...	341
MF 400	420
MFB - MFA-K	306
MFF	214, 215
MFK 1200	371
MFM	214, 215
MH 1	140
MK10	124, 131
MK10-PL	128
MK12	124, 131
MK15	124, 131
MK15-PL	128
MK20	126
MK100	125
MK 100 - PL	129
MK120	125
MK150	125
MK 150 - PL	129
MK200	126
MK220	126
MK250	126
MKE10	131
MKE12	131
MKE15	131
MKS100	130
MKS120	130
MKS150	130
MKS200	130
MLD/P - MLE/P	326
MP35A	417
MR3	416
MR10	416
MR30A	416
MS 110	159, 432
MS 120	159, 432
MSG-3BSN	279
MS... - VF... - FF...	327
MT 1500 S	12
MTB ...	15
MTD ...	15
MTP ...	15
MUC	222, 227

MUF **218, 219, 220, 221, 224, 225, 226**
MUM **219, 220, 221, 224, 225, 226**
MX 10 ... **272**
MX 40 ... **272**
MX 41 ... **272**

N

N **102, 103, 114, 115**
N ... **338**
N9 **216**
N / 500 **115**
N / DK **114**
NS ... **357, 358, 359, 360, 361, 362**

O

OKW-UR **46, 47**
OPTIM **76**

P

PA 480 **256**
PCM **25**
PCS **103**
PFS-3,5 **295**
PFS-6,4 **295**
PK ... **386**
PK 1345 ... **381**
PK 1350 ... **382**
PK 1360 ... **382**
PK 1370 ... - PK 1375 ... **383**
PK 1380 ... **384**
PM **52**
PS ... **333**
PS- ... **386**
PS 220 **431**
PS 220 PP **265**
PT **354**
PT 250 ... **349**
PT 450 ... **349**
PT 470 ... **350**
PT 550 ... **350**
PT 600 ... **351**
PT 650 ... **351**
PT 700 ... **352**
PT 750 ... **352**
PT 850 ... **353**
PT 880 ... **353**
PT 900 ... **354**
PTLH **128, 139**
PU04-... **419**
PWT300 - PWT 600 **284**
PZ 7 **414**
PZ 7-3 **414**
PZ 8A **414**
PZ 8B **414**

Q

QEA/3 **332**
QEA/6 **333**

QKAC **49, 50**
QKB **49, 50**
QKBMA **49, 50**

R

R ... **338, 339, 340**
RE 35 **261**
RE 55 **261**
RM **53**
RO 601... - RO 605... - RO 801... **366**
RZ 20 **430, 431**
RZ 30 **430**
RZ 65 **431**

S

S **408, 409, 410, 411, 412**
SB ... **385**
SCHL 1400 ... **374**
SCHL 1410 ... **374**
SCHL 1430 ... **375**
SCHL 1440 ... **375**
SC ... / LC ... **270, 271**
SCR 5 **83**
SDS ... **363**
SE620 **84**
SE630 **84**
SE640 **84**
SEA **114**
SEB **63**
SEBC **64**
SET ... **324**
SF ... - SR ... - SS ... - SK ... **385**
SHM **54**
SHMR **54**
SHR **55**
SHRR **55**
SHSP **56**
SK **107**
SK (45°) **107**
SK - 45° PL **111**
SK (90°) **107**
SK - 90° PL **111**
SK 200-300-500 **108**
SK - PL **111**
SM **53**
SM 1 **141**
SN 1150 **413**
SN 1151 **413**
SN 1153 **413**
SN 1154 **413**
SP **72**
SPH **136**
SPS **72**
SS DSR **57**
SST **137**
ST11 **122**
ST12 **122**
ST 12 - PL **129**
ST13 **123, 132**
ST14 **123**
ST15 **123**

ST16 **134**
ST17 **135**
ST 19 **140**
ST155 **136**
STC ... **11**
STE **132**
STK ... **10**
STL... **334, 335**
STN **105**
STN PL **105, 111**
STP ... **11, 287**
SVK **106**
SVK (45°) **106**
SVK - 45° PL **110**
SVK (90°) **106**
SVK - 90° PL **110**
SVK 200-300-500 **108**
SVKF9 **216**
SVKM9 **216**
SVK - PL **110**
SX 10 ... **271**
SX 40 ... **271**
SX 4012 **271**

T

T 2000 **152**
TAF ... **196**
TC **243, 244**
THFS-1 **332**
THPS-3 **332**
TLL 03 **277**
TLL 07 **277**
TLL 12 **278**
TLS 03 **278**
TLS 07 **278**
TLS 12 **279**
TPF 77 **265**
TPU-20 **306**
TR 70 / TR 70 EA **9**
TR 80 **9**
TR-3140 **330, 333**
TR ... K **10**
TSR **61**
TSR C **62**
TSW2220 EU **42, 43**
TSW2222 **44, 45**

U

U100.06 **174, 175, 176, 178, 180, 183, 184, 186, 188, 190, 192, 194**
U100.08 **176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186**
U100.12 **187, 188, 189, 190, 191, 192, 193, 194, 195**
U101 **199**
U101. ... **206, 207, 208, 210, 212**
U101.06 **200, 203, 204, 205**
U101.09 **200, 203, 204, 205**
U101.12 **201, 203, 204, 205**

U101.16	201, 203, 204, 205
U101.20	202
U101.25	202
U101.38	202
U101.M...	229
UBH ...	198
UCG ...	198
UE... / ME... / SE...	268
UF 5600	252
UF 7503	253
UF 7504	253
UF 9700	253
URH ...	198
US 1600	139
US 1650	140
US 1700	140
USC...	7, 8
UTS ...	197
UTSM ...	197

V

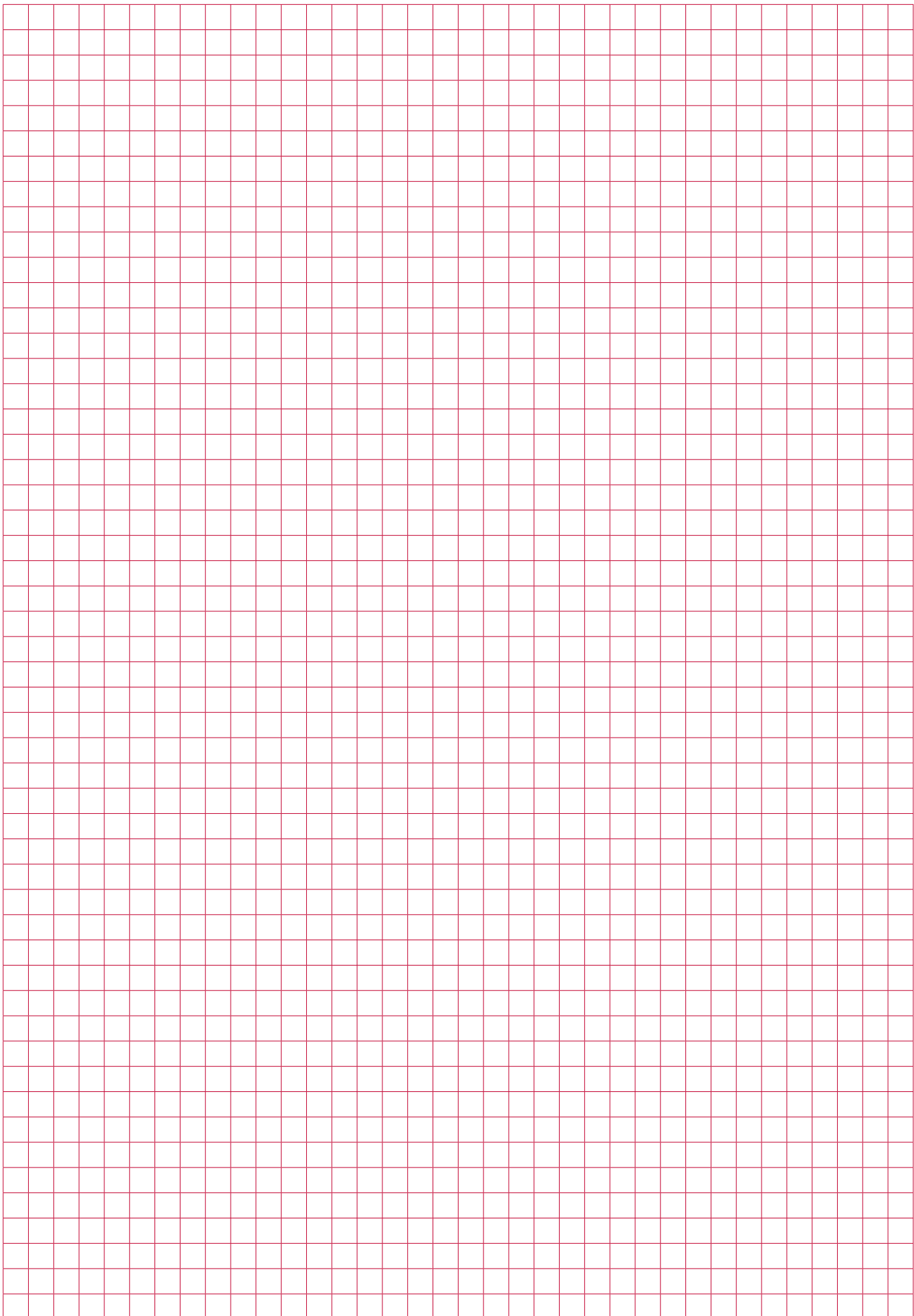
V	136, 150, 151
VC 10	265
VC 90	266
VEA	333
VF-GR	21
VL	138, 151
VM 200	139
VR	151

W

WB-...	327
WF 620	420
WF 1540	420
WH	155
WH(G)	158, 160, 161
WL	155
WL(G)	156, 160, 161
WM	155
WM(G)	157, 160, 161
WP	73
WV	141
WV 700	143
WWF	154
WWK	154
WWM	154
WZ412	52

Z

ZE 3	415
ZE 3A	415
ZE 3V	415
ZE 3VA	415
ZE 4	415
ZE 4A	415
ZF...	74
ZF 9 ...	343
ZV	73



GENERAL CONDITIONS OF SALE DME EUROPE

1. CONCLUSION OF CONTRACT - APPLICATION

The contract is validly entered into and the order is accepted after written confirmation by seller. These sales conditions apply to the exclusion of any other terms or conditions, unless expressly accepted in writing beforehand by the vendor.

Seller has 30 (thirty) days since the reception of the order to accept or to refuse it. During this period, buyer shall not withdraw his order.

Absence of any written confirmation of the order shall only be interpreted as being an implicit acceptance in case of performance of the order by seller.

2. PAYMENT

Unless otherwise agreed in writing, invoices are payable in the stated currency within 30 (thirty) days after invoice date to the bank designated by seller. Transfer charges are for account of buyer.

If buyer does not pay within this term, seller shall automatically have ipso jure and without any prior formal notice, the right to charge legal interest plus 2 % from due date of the invoice. Moreover, in case of late payment, a fixed indemnity corresponding to 10 % of the payable amount shall automatically be due from the first day following the due date, without prejudice to seller's right to prove higher damage and ask for corresponding indemnity. Should payment be in foreign currency, seller has the right to adapt the foreign currency in case of depreciation of this foreign currency in regard of the euro.

Should payment of the delivered goods be in instalments, the non-payment of one of the instalments gives seller the right to terminate the contract. The payments, which were done until then, shall remain property of seller as indemnity, without prejudice to the right to claim further damages or to the right to require the performance of the contract.

Payment of advance shall not give buyer the right to terminate the contract upon reimbursement of the paid advance. If payment is done by bill of exchange or check, payment is deemed satisfied only when the bill of exchange or the check is honoured.

Place of payment is always Mechelen even if payment is done with bill of exchange.

3. RETENTION OF TITLE

Delivered goods remain property of seller until full payment has been received by seller. The sale of an unpaid item by buyer to a third party results in automatic assignment of the debt due by the third party to buyer, inclusively the retention of title, to seller. Seller has then the authority to take any necessary means in order to validly assign towards the third party. Seller may retake unpaid goods at any time and he may inform any client and/or any subcontractor of buyer about the fact that seller is and remains the only owner of the concerned goods until full payment.

The purchaser undertakes to carefully keep the goods that have not been paid for, and undertakes not to pledge them or use them in any other way as a guarantee or security. The purchaser shall inform third parties who may apply any security rights over his assets (such as, but not limited to, the lessor of the premises occupied by the purchaser) that the products are and shall remain the property of the vendor until full payment of all sums owed by the purchaser to the vendor, and in the event of an attachment or other measures taken by third parties that apply to products for which full payment has not yet been made the purchaser undertakes to immediately inform the vendor of this to enable him to apply his rights.

4. RISKS

Notwithstanding the preceding provisions, the risk transfers to buyer as soon as he has the goods at his disposal.

5. DISPATCHING OF INSIGNIFICANT VALUE

Each dispatch of less than € 50 will be increased with costs of payments and may, at seller's option, be sent cash on delivery (COD).

6. PRICE OFFERS AND PRICE LISTS

Price offers and price lists are without obligation and are subject to change without any previous notice.

Any information released by seller is delivered in good faith and seller shall not be responsible for the choice of material and goods.

7. PRICE AND DISPATCHING

All prices are ex works. Transportation, duties and taxes for account of buyer, unless seller's previous and express written specification to the contrary. Seller shall send goods by the fastest and most economic way at the risks of buyer. Goods may be insured by seller at buyer's option, the insurance premiums are for buyer. Seller is not responsible for the choice of packing.

8. DELIVERY

Date of delivery is the date when the goods are ready for inspection at the indicated place. Place of origin is Mechelen, Belgium, or any other place indicated by seller. Seller is not responsible for any late delivery, except those delays due to his own fault or gross negligence.

9. RETURNING OF GOODS

No goods can be returned without seller's previous, express and written consent. If buyer commits an error in ordering, the retaking of goods is possible only for inventory standard items. Goods must be returned within 15 (fifteen) days after invoice date and all goods must be in original conditions; all costs of transport are for buyer, as well as insurance and repacking costs. Special-order goods, marked or used items are non-returnable.

10. DEFECTS

Seller warrants defects in material and/or workmanship. Warranty is limited to the replacement or repair, at seller's option, of any merchandise found defective during 1 month. This warranty does not include defects due to buyer's fault or to abnormal use, bad maintenance, imperfect installation, buyer's inadequate repair, unforeseeable circumstances or in case changes were brought to material without previous and express written approval of seller.

Notice of conspicuous defects must be given to seller by registered letter sent within 10 (ten) working days following date of delivery.

Notice of hidden defects must be given to seller by registered letter with in 10 (ten) working days after date of discovery, and in any case, within a 10-month term following date of delivery.

Seller is not responsible for any damage and in particular salary and material costs, losses, loss of profit or loss of a chance incurred by buyer, unless it is demonstrated that defect is due to seller's gross or intentional fault. If seller is responsible for defect, seller has the right either to terminate the contract and to pay back all the invoiced prices or to replace the delivered product within a reasonable term. If goods for repair must be transported, costs and risks of this transport are for buyer.

In case seller is responsible for any damage, this will be limited to the foreseeable damage with a maximum amount corresponding to the amount of the product's invoiced price.

Should a third party lodge a claim against seller to obtain payment of an indemnity for a damage for which seller is not responsible in accordance with the present conditions or for a higher amount than the one seller is responsible for, buyer will warrant seller against those claims.

11. DESCRIPTION

Only product descriptions used in seller's latest literature and correspondence with buyer, are binding for description of goods.

Buyer is responsible for using items in conformity with all regulations, including but not limited to, the safety regulations in force at the place of use.

12. SPECIFIC ORDERS

For the performance of a special work, the project signed by buyer is binding to the extent it has been accepted by seller.

For the performance of such work, special conditions may be required. In case of any inconsistency between general conditions and special conditions, the special conditions shall apply. Should special conditions be unclear, they shall be interpreted in light of the general conditions.

13. ACT OF GOD

Seller shall not pay any damage for non-performance or late performance of his undertakings due to Act of God. Act of God includes in particular and without being limited thereto, strike, lock-out, and the non-performance by seller's suppliers of their undertakings.

14. VALIDITY AND INDIVIDUAL CLAUSES

If one or more provisions of these present general conditions are held to be invalid, the remaining provisions will continue to be valid and enforceable, and parties will agree upon other provisions having an economic effect that corresponds closest to the economic effect of the invalid provision(s).

15. WAIVER

In case seller does not exercise one of his rights in accordance with the present conditions, this shall not be interpreted as a waiver of these rights.

16. APPLICABLE LAW – COMPETENT COURTS

This sales contract will be governed by Belgian law. The competent court is the Commercial Court of Mechelen, without prejudice to seller's right to introduce the case before another competent court.

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