System 8

Solenoid Coils
Armature Assemblies
Valve Systems

...perfectly switched!

since 2011
nass magnet Hungária Kft.

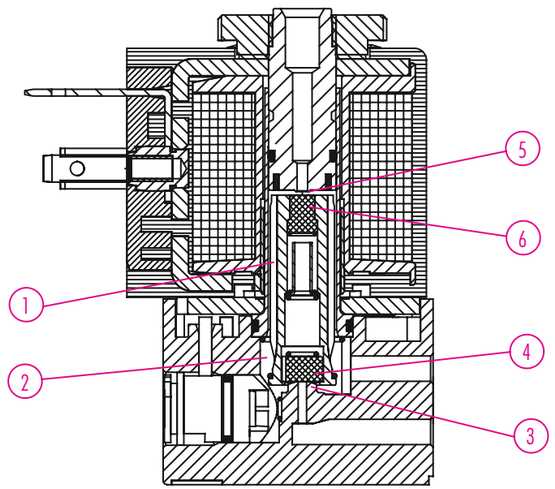
Nass Controls LP

Nass Magnet GmbH

Precision Controls Kft.

System 8

Introduction
Application of System 8 Valves
Function



Introduction

The short name “System 8” identifies a modular system of solenoid operators and solenoid valves. All valves have got a plunger diameter of 8 mm.
After years of examinations, it has turned out that this armature diameter is the optimum for pneumatic applications. The plunger diameter is an essential influencing factor; its optimal selection is of great techical importance. After thorough studies and testing, “System 8” has been proven perfect for pneumatic applications.

Application of System 8 Valves

The solenoid operators / solenoid valves are especially used for the actuation of 2/2 or 3/2 way seat valves in the pneumatics. The switching functions „normally closed“ and „normally open“ are available.
In case of 2/2 way valves, orifice sizes of up to 4.0 mm at 4 bar can be reached.

In case of 3/2 way valves, orifice sizes of up to 2.0 mm with 10 bar can be reached.
The solenoid operators / solenoid valves are also used for the control of liquids and other media.

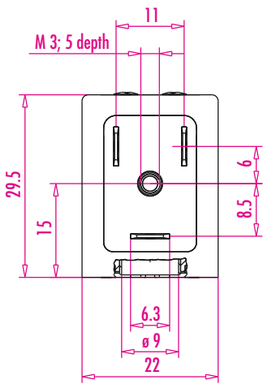
Function

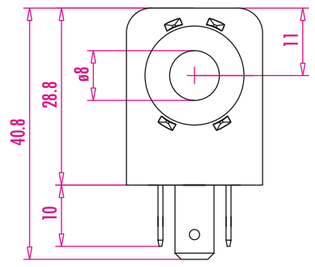
When the solenoid operator/solenoid pilot valve is in its normal, de-energized state, the reset spring (2) forces the plunger (1) down onto the valve seat (3), which is closed by the sealing element (4), and the upper valve seat (5) is open to atmosphere.
When the solenoid operator/solenoid pilot valve is energized,
the plunger (1) is pulled up by the magnetic force, closing the upper valve seat (5) by the sealing element (6), and the lower valve seat (3) is open.
The function of solenoid operators and solenoid valves are identical.

However, the customer would assemble a solenoid operator with a valve body and valve seat to a solenoid valve.
2/2 way valves do not possess an upper valve seat.
The function of the magnet is identical.

Solenoid Coil

Width: 22 mm
Connection Type: Industry Form
Moulding Material: Thermoset Resin





General Data

Voltage tolerance	-10% ... +10%
Ambient temperature	-20°C ... +50°C
Relative duty cycle	100%
Insulation class of insulating materials according to DIN VDE 0580	F
Degree of protection with connector according to EN 60529	IP 65 / IP 67*
Imprint (customer imprint - special version)	Nass Magnet

* *See page 27*

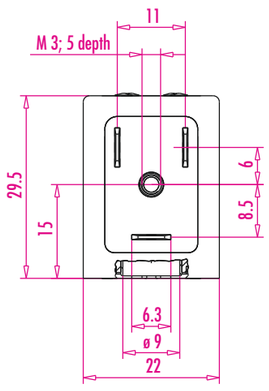
Technical Data / Standard Versions

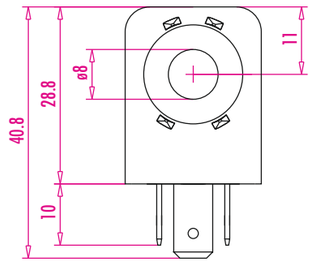
Drawing No.	Part No.	Voltage [V]	Frequency [Hz]	Output [VA] [W]	Power Level	$\Delta\vartheta_{32}$ [K]
0537 00.1-00/5108	250 6419	24 DC	-	1.1	1	19
0537 00.1-00/5010	250 5237	24 DC	-	2.0		31
0537 00.1-00/4996	251 0136	110 AC	50	4.1		47
0537 00.1-00/4996	251 0136	110 AC	60	3.3	2	47
0537 00.1-00/6826	251 0137	230 AC	50	3.9		45
0537 00.1-00/6826	251 0137	230 AC	60	3.2		45
0537 00.1-00/5078	250 2242	24 DC	-	2.6		39
0537 00.1-00/4984	250 2292	110 AC	50	6.0		70
0537 00.1-00/4984	250 2292	110 AC	60	4.9	3	70
0537 00.1-00/5130	250 5662	230 AC	50	6.0		70
0537 00.1-00/5130	250 5662	230 AC	60	4.9		70
0537 00.1-00/4982	250 2040	24 DC	-	4.8		66
0537 00.1-00/4995	250 2298	110 AC	50	8.4		92
0537 00.1-00/4995	250 2298	110 AC	60	6.8	4	92
0537 00.1-00/4997	250 5778	230 AC	50	7.9		86
0537 00.1-00/4997	250 5778	230 AC	60	6.4		86
0537 00.1-00/4988	250 2235	24 DC	-	6.0		80
0537 00.1-00/7172	251 0247	110 AC	50	8.6		94
0537 00.1-00/7172	251 0247	110 AC	60	8.6	5	95
0537 00.1-00/5862	250 5802	230 AC	50	9.4		102
0537 00.1-00/5852	250 3152	230 AC	60	9.7		106

$\Delta\vartheta_{32}$ = *steady-state over-temperature according to VDE 0580*

Solenoid Coil

Width: 22 mm
Connection Type: Industry Form
Moulding Material: Thermoplastic





General Data

Voltage tolerance	-10% ... +10%
Ambient temperature	-20°C ... +50°C
Relative duty cycle	100%
Insulation class of insulating materials according to DIN VDE 0580	F
Degree of protection with connector according to EN 60529	IP 65 / IP 67*
Imprint (customer imprint - special version)	Nass Magnet

* *See page 27*

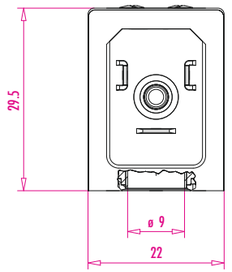
Technical Data / Standard Versions

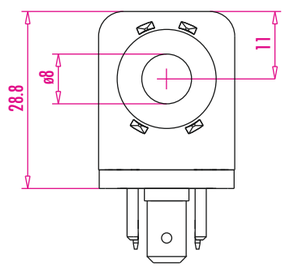
Drawing No.	Part No.	Voltage [V]	Frequency [Hz]	Output [VA] [W]	Power Level	$\Delta\vartheta_{32}$ [K]
0550 00.1-00/5108	250 6420	24 DC	-	1.1	1	20
0550 00.1-00/5010	250 5736	24 DC	-	2.0		33
0550 00.1-00/4996	250 7825	110 AC	50	4.1		51
0550 00.1-00/4996	250 7825	110 AC	60	3.3	2	51
0550 00.1-00/6826	251 0014	230 AC	50	3.9		48
0550 00.1-00/6826	251 0014	230 AC	60	3.2		48
0550 00.1-00/5078	250 4187	24 DC	-	2.6		41
0550 00.1-00/4984	250 4953	110 AC	50	6.0		75
0550 00.1-00/4984	250 4953	110 AC	60	4.9	3	75
0550 00.1-00/5130	250 5290	230 AC	50	6.0		75
0550 00.1-00/5130	250 5290	230 AC	60	4.9		75
0550 00.1-00/4982	250 2875	24 DC	-	4.8		69
0550 00.1-00/4995	250 5024	110 AC	50	8.4		99
0550 00.1-00/4995	250 5024	110 AC	60	6.8	4	99
0550 00.1-00/4997	250 5647	230 AC	50	7.9		93
0550 00.1-00/4997	250 5647	230 AC	60	6.4		93
0550 00.1-00/4988	250 5248	24 DC	-	6.0		84
0550 00.1-00/7172	251 0250	110 AC	50	8.6		101
0550 00.1-00/7172	251 0250	120 AC	60	8.6	5	102
0550 00.1-00/7083	250 9095	230 AC	50	9.4		110
0550 00.1-00/5862	250 9737	230 AC	60	9.7		110

$\Delta\vartheta_{32}$ = *steady-state over-temperature according to VDE 0580*

Solenoid Coil

Width: 22 mm
Connection Type: DIN 175301 - 803 - B / ISO 6952
Moulding Material: Thermoset Resin





General Data

Voltage tolerance	-10% ... +10%
Ambient temperature	-20°C ... +50°C
Relative duty cycle	100%
Insulation class of insulating materials according to DIN VDE 0580	F
Degree of protection with connector according to EN 60529	IP 65 / IP 67*
Imprint (customer imprint - special version)	Nass Magnet

* *See page 27*

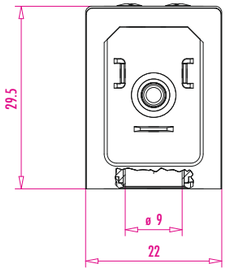
Technical Data / Standard Versions

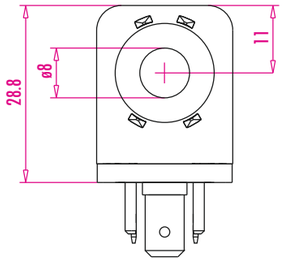
Drawing No.	Part No.	Voltage [V]	Frequency [Hz]	Output [VA] [W]	Power Level	$\Delta\vartheta_{32}$ [K]
0553 00.1-00/5108	251 0261	24 DC	-	1.1	1	19
0553 00.1-00/5010	251 0142	24 DC	-	2.0		31
0553 00.1-00/4996	251 0141	110 AC	50	4.1		47
0553 00.1-00/4996	251 0141	110 AC	60	3.3	2	47
0553 00.1-00/6826	251 0143	230 AC	50	3.9		45
0553 00.1-00/6826	251 0143	230 AC	60	3.2		45
0553 00.1-00/5078	250 4777	24 DC	-	2.6		39
0553 00.1-00/4984	251 0139	110 AC	50	6.0		70
0553 00.1-00/4984	251 0139	110 AC	60	4.9	3	70
0553 00.1-00/5130	251 0262	230 AC	50	6.0		70
0553 00.1-00/5130	251 0262	230 AC	60	4.9		70
0553 00.1-00/7180	251 0147	24 DC	-	4.8		66
0553 00.1-00/4995	251 0140	110 AC	50	8.4		92
0553 00.1-00/4995	251 0140	110 AC	60	6.8	4	92
0553 00.1-00/4997	250 5840	230 AC	50	7.9		86
0553 00.1-00/4997	250 5840	230 AC	60	6.4		86
0553 00.1-00/4988	250 3748	24 DC	-	6.0		80
0553 00.1-00/7172	251 0263	110 AC	50	8.6		94
0553 00.1-00/7172	251 0263	120 AC	60	8.6	5	95
0553 00.1-00/5862	251 0264	230 AC	50	9.4		102
0553 00.1-00/5862	251 0265	230 AC	60	9.7		106

$\Delta\vartheta_{32}$ = *steady-state over-temperature according to VDE 0580*

Solenoid Coil

Width: 22 mm
Connection Type: DIN 175301 - 803 - B / ISO 6952
Moulding Material: Thermoplastic





General Data

Voltage tolerance	-10% ... +10%
Ambient temperature	-20°C ... +50°C
Relative duty cycle	100%
Insulation class of insulating materials according to DIN VDE 0580	F
Degree of protection with connector according to EN 60529	IP 65 / IP 67*
Imprint (customer imprint - special version)	Nass Magnet

* *See page 27*

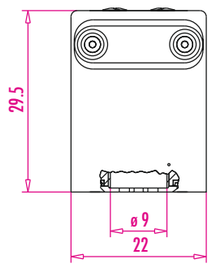
Technical Data / Standard Versions

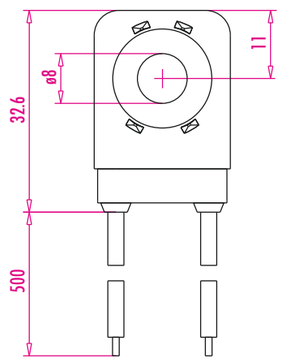
Drawing No.	Part No.	Voltage [V]	Frequency [Hz]	Output [VA] [W]	Power Level	$\Delta\vartheta_{32}$ [K]
0566 00.1-00/5108	251 0252	24 DC	-	1.1	1	20
0566 00.1-00/5010	251 0254	24 DC	-	2.0		33
0566 00.1-00/4996	251 0144	110 AC	50	4.1		51
0566 00.1-00/4996	251 0144	110 AC	60	3.3	2	51
0566 00.1-00/6826	251 0145	230 AC	50	3.9		48
0566 00.1-00/6826	251 0145	230 AC	60	3.2		48
0566 00.1-00/5078	250 5202	24 DC	-	2.6		41
0566 00.1-00/4984	251 0146	110 AC	50	6.0		75
0566 00.1-00/4984	251 0146	110 AC	60	4.9	3	75
0566 00.1-00/5130	251 0080	230 AC	50	6.0		75
0566 00.1-00/5130	251 0080	230 AC	60	4.9		75
0566 00.1-00/4982	250 5263	24 DC	-	4.8		69
0566 00.1-00/4995	250 6787	110 AC	50	8.4		99
0566 00.1-00/4995	250 6787	110 AC	60	6.8	4	99
0566 00.1-00/4997	251 0148	230 AC	50	7.9		93
0566 00.1-00/4997	251 0148	230 AC	60	6.4		93
0566 00.1-00/4988	250 5179	24 DC	-	6.0		84
0566 00.1-00/7172	251 0251	110 AC	50	8.6		101
0566 00.1-00/7172	251 0251	120 AC	60	8.6	5	102
0566 00.1-00/5862	250 7193	230 AC	50	9.4		110
0566 00.1-00/5852	251 0253	230 AC	60	9.7		110

$\Delta\vartheta_{32}$ = *steady-state over-temperature according to VDE 0580*

Solenoid Coil

Width: 22 mm
Connection Type: Flying Leads
Moulding Material: Thermoplastic





General Data

Voltage tolerance	-10% ... +10%
Ambient temperature	-20°C ... +50°C
Relative duty cycle	100%
Insulation class of insulating materials according to DIN VDE 0580	F
Degree of protection	IP 65
Imprint (customer imprint - special version)	Nass Magnet

Technical Data / Standard Versions

Drawing No.	Part No.	Voltage [V]	Frequency [Hz]	Output [VA] [W]	Power Level	$\Delta\vartheta_{32}$ [K]
0561 00.1-00/5108	250 5317	24 DC	-	1.1	1	20
0561 00.1-00/5010	251 0153	24 DC	-	2.0		33
0561 00.1-00/4996	251 0151	110 AC	50	4.1		51
0561 00.1-00/4996	251 0151	110 AC	60	3.3	2	51
0561 00.1-00/6826	251 0256	230 AC	50	3.9		48
0561 00.1-00/6826	251 0256	230 AC	60	3.2		48
0561 00.1-00/5078	250 4243	24 DC	-	2.6		41
0561 00.1-00/4984	250 9728	110 AC	50	6.0		75
0561 00.1-00/4984	250 9728	110 AC	60	4.9	3	75
0561 00.1-00/5130	251 0257	230 AC	50	6.0		75
0561 00.1-00/5130	251 0257	230 AC	60	4.9		75
0561 00.1-00/4982	250 5226	24 DC	-	4.8		69
0561 00.1-00/4995	251 0150	110 AC	50	8.4		99
0561 00.1-00/4995	251 0150	110 AC	60	6.8	4	99
0561 00.1-00/4997	251 0152	230 AC	50	7.9		93
0561 00.1-00/4997	251 0152	230 AC	60	6.4		93
0561 00.1-00/4988	250 6143	24 DC	-	6.0		84
0561 00.1-00/7172	251 0258	110 AC	50	8.6		101
0561 00.1-00/7172	251 0258	120 AC	60	8.6	5	102
0561 00.1-00/5862	251 0259	230 AC	50	9.4		110
0561 00.1-00/5852	251 0260	230 AC	60	9.7		110

$\Delta\vartheta_{32}$ = *steady-state over-temperature according to VDE 0580*

Solenoid Coil

Width: 22 mm
Connection Type: M 12 Metal Thread
Moulding Material: Thermoset Resin

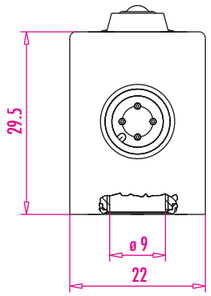
General Data

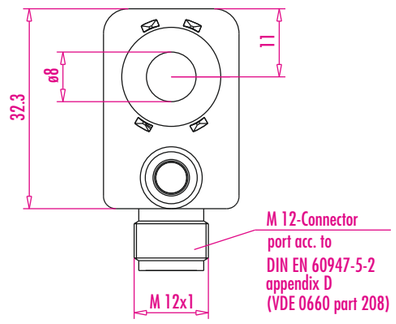
Voltage tolerance	-10% ... +10%
Ambient temperature	-20°C ... +50°C
Relative duty cycle	100%
Insulation class of insulating materials according to DIN VDE 0580	F
Degree of protection with M12 thread	IP 65 / IP 67*
Imprint (customer imprint - special version)	Nass Magnet

* *See page 27*

Technical Data / Standard Versions

Drawing No.	Part No.	Voltage [V]	Output [W]	Power Level	LED		Contact		$\Delta\vartheta_{32}$ [K]
					red	yellow	2-pole	4-pole*	
0547 12.1-00/5078	250 6109	24 DC	2.5	3		x	x		39
0550 45.1-00/5078	250 6105	24 DC	2.5	3			x		41
0547 12.1-00/4982	250 6108	24 DC	4.8	4		x	x		66
0550 45.1-00/4982	250 6104	24 DC	4.8	4			x		69



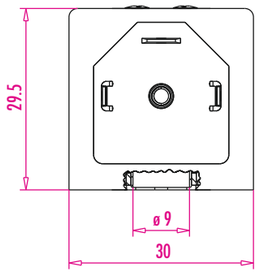


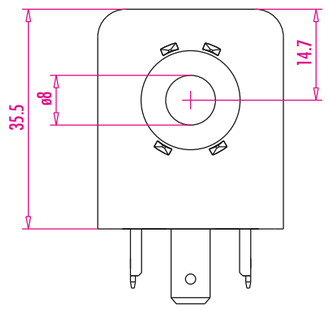
$\Delta\vartheta_{32}$ = *steady-state over-temperature according to VDE 0580*

** DESINA-version (4 pins) on request*

Solenoid Coil

Width: 30 mm
Connection Type: EN 175301-803-A / ISO 4400
Moulding Material: Thermoset Resin





General Data

Voltage tolerance	-10% ... +10%
Ambient temperature	-20°C ... +50°C
Relative duty cycle	100%
Insulation class of insulating materials according to DIN VDE 0580	F
Degree of protection	IP 65 / IP 67*
Imprint (customer imprint - special version)	Nass Magnet

** See page 27*

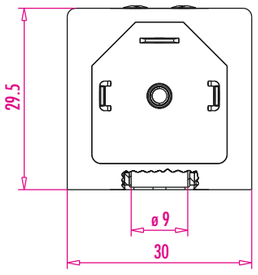
Technical Data / Standard Versions

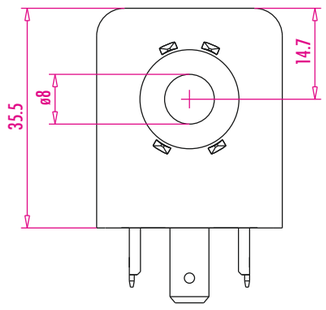
Drawing No.	Part No.	Voltage [V]	Frequency [Hz]	Output [VA] [W]	Power Level	$\Delta\vartheta_{32}$ [K]
0542 00.1-00/6935	251 0269	24 DC	-	0.7	1	10
0542 00.1-00/7079	251 0154	24 DC	-	1.3		18
0542 00.1-00/7178	251 0155	110 AC	50	2.5		27
0542 00.1-00/7178	251 0155	110 AC	60	2.0	2	27
0542 00.1-00/6743	251 0156	230 AC	50	2.3		25
0542 00.1-00/6743	251 0156	230 AC	60	1.9		25
0542 00.1-00/5146	250 2570	24 DC	-	2.1		28
0542 00.1-00/5647	250 2870	110 AC	50	4.0		42
0542 00.1-00/5647	250 2870	110 AC	60	3.1	3	42
0542 00.1-00/6395	251 0157	230 AC	50	4.1		43
0542 00.1-00/6395	251 0157	230 AC	60	3.1		43
0542 00.1-00/5147	250 2445	24 DC	-	2.7		35
0542 00.1-00/5141	250 3359	110 AC	50	4.8		51
0542 00.1-00/5141	250 3359	110 AC	60	3.6	4	51
0542 00.1-00/5190	251 0267	230 AC	50	4.9		52
0542 00.1-00/5190	251 0267	230 AC	60	3.7		52
0542 00.1-00/5148	250 2412	24 DC	-	4.5		52
0542 00.1-00/5142	250 2411	110 AC	50	7.6		65
0542 00.1-00/5142	250 2411	110 AC	60	5.3	5	65
0542 00.1-00/6489	251 0268	230 AC	50	7.9		68
0542 00.1-00/6489	251 0268	230 AC	60	5.5		68
0542 00.1-00/5195	250 2604	24 DC	-	6.7		78
0542 00.1-00/5320	250 3362	110 AC	50	10.5		83
0542 00.1-00/5320	250 3362	110 AC	60	7.6	6	83
0542 00.1-00/6463	250 6774	230 AC	50	10.5		83
0542 00.1-00/6463	250 6774	230 AC	60	7.6		83

$\Delta\vartheta_{32}$ = *steady-state over-temperature according to VDE 0580*

Solenoid Coil

Width: 30 mm
Connection Type: EN 175301-803-A / ISO 4400
Moulding Material: Thermoplastic





General Data

Voltage tolerance	-10% ... +10%
Ambient temperature	-20°C ... +50°C
Relative duty cycle	100%
Insulation class of insulating materials according to DIN VDE 0580	F
Degree of protection	IP 65 / IP 67*
Imprint (customer imprint - special version)	Nass Magnet

** See page 27*

Technical Data / Standard Versions

Drawing No.	Part No.	Voltage [V]	Frequency [Hz]	Output [VA] [W]	Power Level	$\Delta\vartheta_{32}$ [K]
0558 00.1-00/6935	250 7827	24 DC	-	0.7	1	14
0558 00.1-00/7079	250 9010	24 DC	-	1.3		20
0558 00.1-00/7178	251 0160	110 AC	50	2.5		29
0558 00.1-00/7178	251 0160	110 AC	60	2.0	2	29
0558 00.1-00/6743	251 0161	230 AC	50	2.3		27
0558 00.1-00/6743	251 0161	230 AC	60	1.9		27
0558 00.1-00/5146	250 6182	24 DC	-	2.1		32
0558 00.1-00/5140	251 0158	110 AC	50	4.0		46
0558 00.1-00/5140	251 0158	110 AC	60	3.1	3	46
0558 00.1-00/7181	251 0283	230 AC	50	4.1		47
0558 00.1-00/7181	251 0283	230 AC	60	3.1		47
0558 00.1-00/5147	250 7958	24 DC	-	2.7		38
0558 00.1-00/5141	250 5280	110 AC	50	4.8		55
0558 00.1-00/5141	250 5280	110 AC	60	3.6	4	55
0558 00.1-00/5190	250 9948	230 AC	50	4.9		56
0558 00.1-00/5190	250 9948	230 AC	60	3.7		56
0558 00.1-00/5148	250 4805	24 DC	-	4.5		60
0558 00.1-00/5142	251 0159	110 AC	50	7.6		70
0558 00.1-00/5142	251 0159	110 AC	60	5.3	5	70
0558 00.1-00/6489	250 5786	230 AC	50	7.9		73
0558 00.1-00/6489	250 5786	230 AC	60	5.5		73
0558 00.1-00/5195	250 5132	24 DC	-	6.7		83
0558 00.1-00/5320	250 5327	110 AC	50	10.5		89
0558 00.1-00/5320	250 5327	110 AC	60	7.6	6	89
0558 00.1-00/6463	250 5119	230 AC	50	10.5		89
0558 00.1-00/6463	250 5119	230 AC	60	7.6		89

$\Delta\vartheta_{32}$ = *steady-state over-temperature according to VDE 0580*

Solenoid Coil

Width: 30 mm
Connection Type: M 12 Metal Thread
Moulding Material: Thermoset Resin

General Data

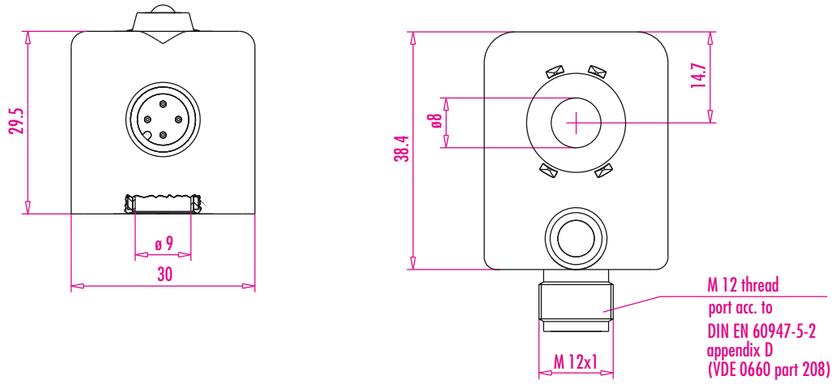
Voltage tolerance	-10% ... +10%
Ambient temperature	-20°C ... +50°C
Relative duty cycle	100%
Insulation class of insulating materials according to DIN VDE 0580	F
Degree of protection with M12 thread	IP 65 / IP 67*
Imprint (customer imprint - special version)	Nass Magnet

** See page 27*

Technical Data / Standard Versions

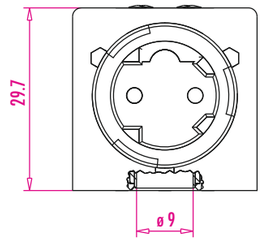
Drawing No.	Part No.	Voltage [V]	Output [W]	Power Level	LED		Contact		$\Delta\vartheta_{32}$ [K]
					red	yellow	2-pole	4-pole	
0558 27.1-00/5140	250 8992	24 DC	0.7	1			x		14
0542 34.1-00/5147	250 6110	24 DC	2.7	4		x	x		35
0542 41.1-00/5147	250 7821	24 DC	2.7	4		x		x	35
0558 27.1-00/5147	250 6107	24 DC	2.7	4			x		38
0542 34.1-00/5148	250 6100	24 DC	4.5	5		x	x		52
0542 41.1-00/5148	250 7822	24 DC	4.5	5		x		x	52
0558 27.1-00/5148	250 6106	24 DC	4.5	5			x		60

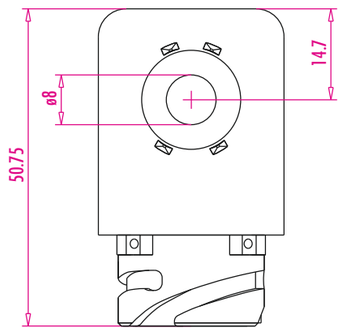
$\Delta\vartheta_{32}$ = *steady-state over-temperature according to VDE 0580*



Solenoid Coil Bayonet Connection

Width: 30 mm
Connection Type: Connector DIN 72585
Moulding Material: Thermoplastic





General Data

Voltage tolerance	-30% ... +30%
Ambient temperature	-40°C ... +80°C
Relative duty cycle	100%
Insulation class of insulating materials according to DIN VDE 0580	H
Degree of protection with connector acc. to EN 60529r	IP 6K 9K
Imprint (customer imprint - special version)	Nass Magnet

Technical Data / Standard Versions

Drawing No.	Part No.	Voltage [V]	Output [W]	Power Level	$\Delta\vartheta_{32}$ [K]
0570 00.1-00/5148	250 9732	24 DC	4.5	5	59
0570 00.1-00/5143	251 0149	12 DC	4.5	5	57

$\Delta\vartheta_{32}$ = *steady-state over-temperature according to VDE 0580*

Special Versions: · Variable pin allocation according to DIN 72585 · Electronic safety wiring

Solenoid Coils

Special Remarks
Special Versions

Width: 22 mm
Connection Type: Industry Form
Moulding Material: Thermoset Resin / Thermoplastic

Width: 22 mm
Connection Type: DIN 175301 – 803 - B ISO 6952
Moulding Material: Thermoset Resin / Thermoplastic

Width: 22 mm
Connection Type: Flying Leads
Moulding Material: Thermoplastic

Width: 22 mm
Connection Type: M 12 Metal Thread
Moulding Material: Thermoset Resin

Width: 30 mm
Connection Type: EN 175301-803-A ISO 4400
Moulding Material: Thermoset Resin / Thermoplastic

Width: 30 mm
Connection Type: M 12 Metal Thread
Moulding Material: Thermoset Resin

Width: 30 mm
Connection Type: Connector DIN 72585
Moulding Material: Thermoplastic

Special Remarks

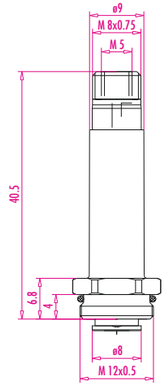
The mentioned performance data and steady-state over-temperatures are valid for the indicated standard voltages. Other voltages are available on request.
The perfect function of these solenoid coils and the respective components shown in this catalogue will be guaranteed for a winding at operating temperature (max. ambient temperature and max. voltage tolerance). The steady-state over-temperature is reached with valve bodies in plastic and coils moulded with thermoplastic. All valves are made in compliance with DIN VDE 0580. The alignment of the valves on manifolds is possible, but this leads to an increase in temperature by up to 20K and may lead to a restricted function. A general lifetime of the products cannot be specified, as it is decisively influenced by ambient conditions, the single application and the combination with other components.
The function can only be fulfilled in case of exclusive use of Nass Magnet products. Should there be deviating or additional operating conditions compared to the above-mentioned conditions, special testing is necessary in order to verify the usability of the Nass Magnet products. Nass Magnet or one of its subsidiaries will be glad to offer assistance.

**Special Versions*
· Degree of protection 67 in case of solenoid coils of thermoset resin (see accessories, p. 46-49). Impregnation must be provided for solenoid coils with thermoplastic moulding. Please mention it in your inquiry.

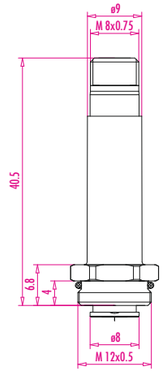
On request: Solenoid coil special version, width 30 mm, connection type: flying leads.

Armature Assembly 2/2 and 3/2 Way

Normally Closed (NC)
Connection Type: Thread M 12 x 0.5



3/2 Way



2/2 Way

General Data

Quality of medium according to ISO 8573-1 when using FPM sealing elements	Compressed air class 4, 3, 4
Mounting position (preferably plunger in vertical direction)	Any

Technical Data / Standard Versions

Drawing No.	Part No.	Function	Power Level	Nominal Orifice Inlet / Exhaust [mm]	Pressure [bar]	Thread M 12 x 0.5	Appropriate for		Armature Guide		Sealing Material FPM*
							AC	DC	Brass	Stainless Steel	
0537 01.6-00	260 3229	2/2 Way	3, 4, 5, 6	See page 30 - 31		x	x	x	x		x
0537 16.6-20	260 6157	2/2 Way	3, 4, 5, 6	See page 30 - 31		x	x	x		x	x
1237 05.6-20	260 5047	3/2 Way	1	0.6/ 0.8	10	x	x	x	x		x
1237 18.6-20	260 4066	3/2 Way	1	0.6/ 0.8	10	x	x	x		x	x
1237 07.6-20	260 4774	3/2 Way	1	0.8/ 1.0	8	x	x	x	x		x
0537 44.6-20	260 6893	3/2 Way	2	0.8/ 1.0	10	x	x	x	x		x
0537 21.1-20	260 3234	3/2 Way	3	1.0/ 1.3	10	x	x	x	x		x
0547 26.6-20	260 6954	3/2 Way	3	1.0/ 1.3	10	x	x	x		x	x
0537 20.1-20	260 3230	3/2 Way	4	1.3/ 1.5	10	x	x	x	x		x
0537 00.1-20	260 0016	3/2 Way	5	1.5/ 1.7	10	x	x	x	x		x
1237 76.6-20	260 8109	3/2 Way	5	1.5/ 1.7	10	x	x	x		x	x
0537 00.6-80	260 5231	3/2 Way	6	1.7/ 1.7	10	x	x	x	x		x
0542 09.6-20	260 8180	3/2 Way	6	1.3/ 1.5	16	x	x	x	x		x

** minimal permissible temperature -10°C (FPM), see summary of temperatures under "Useful Information", page 6*

Additional sealing materials: EPDM, NBR, HNBR
Connection Type: Thread 3/4 - 32 UN 2A
Connection Type: Armature assembly with clip

Armature Assembly 2/2 and 3/2 Way

Normally Closed (NC)
Normally Open (NO)
Connection Type: Flange (O-Ring)

General Data

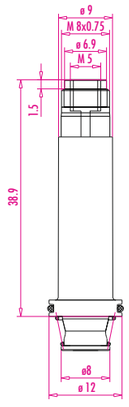
Quality of medium according to ISO 8573-1 when using FPM sealing elements	Compressed air class 4, 3, 4
Mounting position (preferably plunger in vertical direction)	Any

Technical Data / Standard Versions

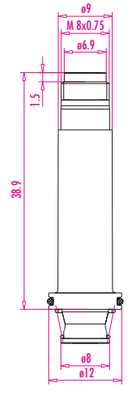
Drawing No.	Part No.	Function		Power Level	Nominal Orifice Inlet / Exhaust [mm]	Pressure [bar]	Flange with O-Ring	Appropriate for		Armature Guide		Sealing Material FPM*
								AC	DC	Brass	Stainless Steel	
0537 01.6-40	260 3546	2/2 Way	NC	3, 4, 5, 6	See page 30 - 31		x	x	x	x		x
1237 05.6-00	260 4739	3/2 Way	NC	1	0.6/ 0.8	10	x		x	x		x
1237 48.6-00	260 6835	3/2 Way	NC	1	0.6/ 0.8	10	x		x		x	x
1237 07.6-00	260 4766	3/2 Way	NC	1	0.8/ 1.0	8	x		x	x		x
0537 44.6-00	260 6376	3/2 Way	NC	2	0.8/ 1.0	10	x	x	x	x		x
0537 08.6-00	260 0022	3/2 Way	NC	3	1.0/ 1.3	10	x	x	x	x		x
0537 02.6-00	260 8080	3/2 Way	NC	3	1.0/ 1.3	10	x	x	x	x		x
1237 75.6-00	260 8087	3/2 Way	NO	4	1.0/ 1.3	10	x		x	x		x
0537 06.6-00	260 0049	3/2 Way	NC	4	1.3/ 1.5	10	x	x	x	x		x
0547 18.6-00	260 6513	3/2 Way	NC	4	1.3/ 1.5	10	x	x	x		x	x
0537 00.1-10	260 0015	3/2 Way	NC	5	1.5/ 1.7	10	x	x	x	x		x
0547 47.6-00	260 7618	3/2 Way	NC	5	1.5/ 1.7	10	x	x	x		x	x
0537 00.6-50	260 2822	3/2 Way	NC	6	1.7/ 1.7	16	x	x	x	x		x

** minimal permissible temperature -10°C (FPM), see summary of temperatures under "Useful Information", page 6*

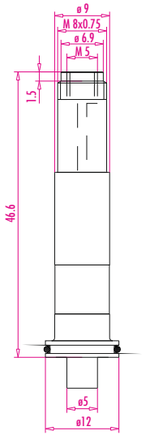
Additional sealing materials: EPDM, NBR, HNBR
Connection Type: Thread 3/4 - 32 UN 2A
Connection Type: Armature assembly with clip



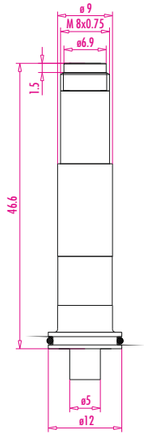
Normally Closed (NC)
3/2 Way



Normally Closed (NC)
2/2 Way

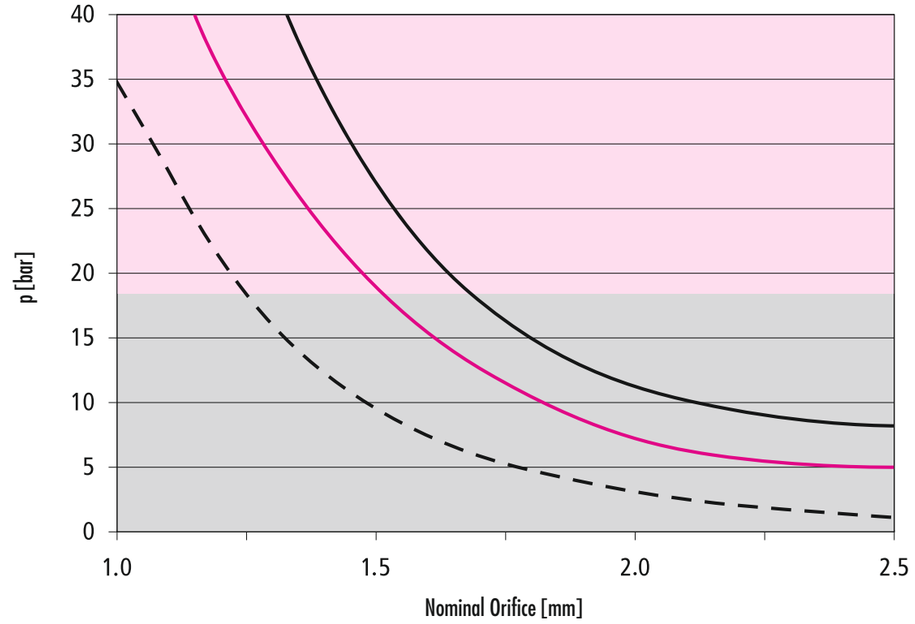


Normally Open (NO)
3/2 Way

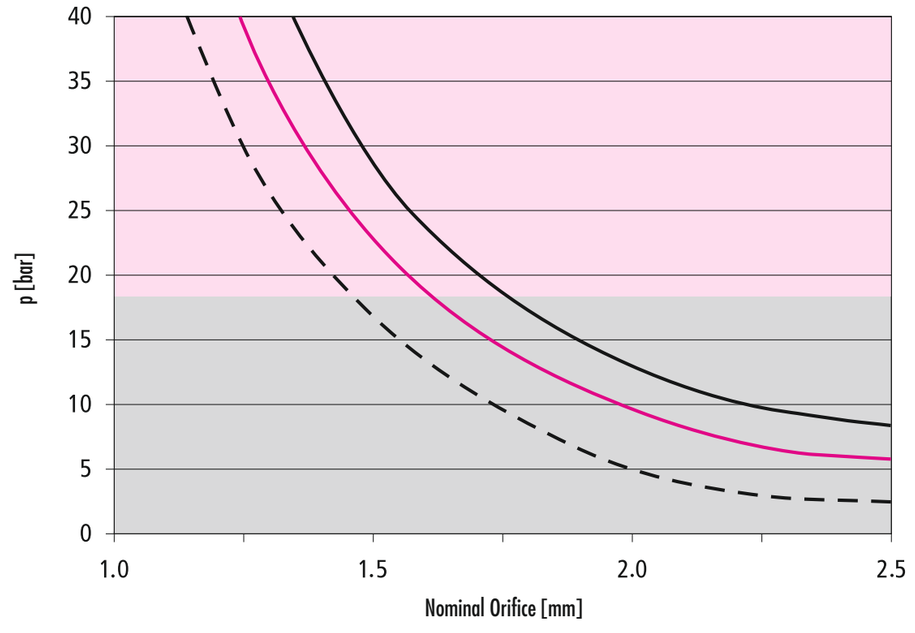


Normally Open (NO)
2/2 Way

Power Level 3 for 2/2 Way Version



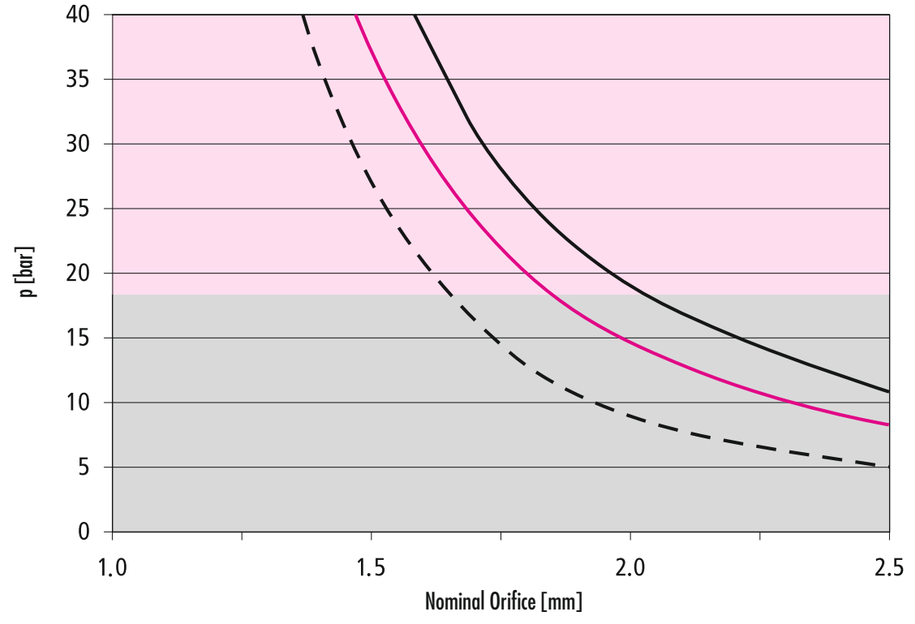
Power Level 4 for 2/2 Way Version



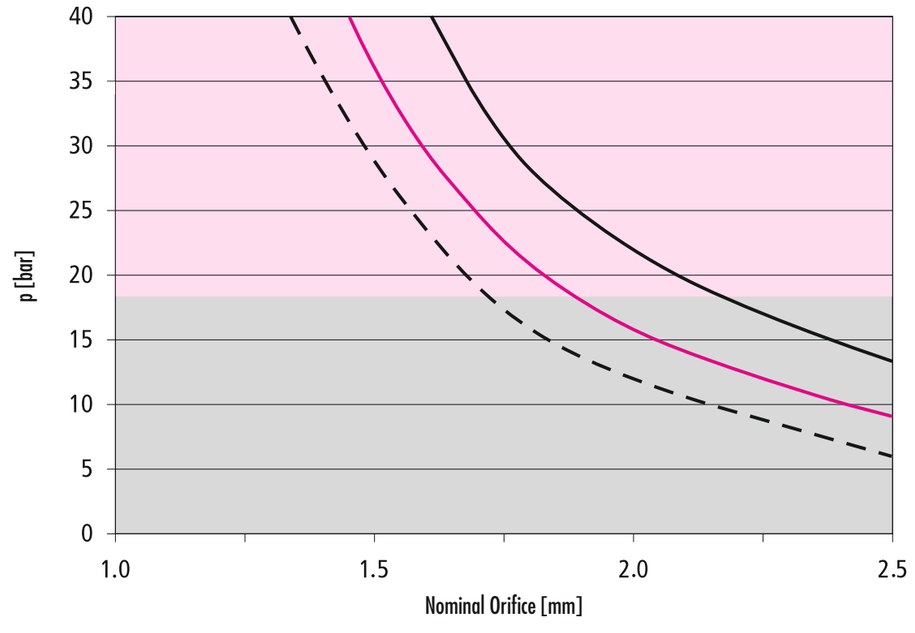
AC - 50 Hz AC - 60 Hz DC - 5% residual ripple

max. test pressure for standard products 18 bar, special versions on request

Power Level 5 for 2/2 Way Version



Power Level 6 for 2/2 Way Version

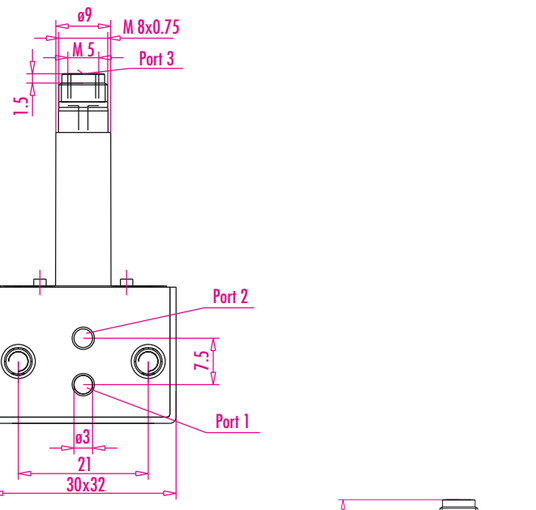


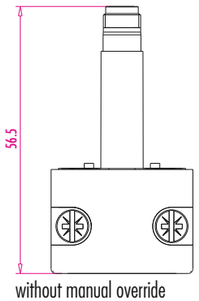
AC - 50 Hz AC - 60 Hz DC - 5% residual ripple

max. test pressure for standard products 18 bar, special versions on request

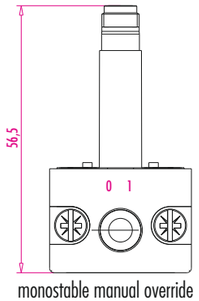
Valve System CNOMO

Height: 22 mm
Normally Closed (NC)
Normally Open (NO)
Valve Body: Plastic

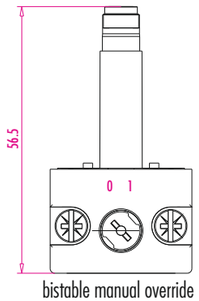




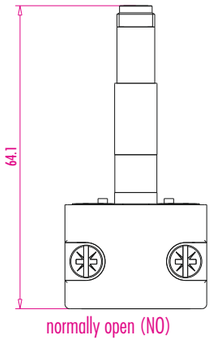
without manual override



monostable manual override
normally closed (NC)

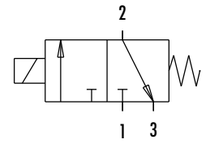


bistable manual override

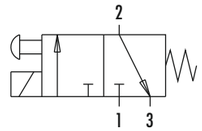


normally open (NO)

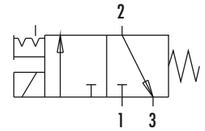
Pneumatic Diagram



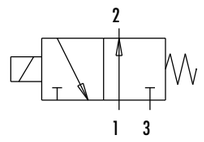
without manual override



monostable manual override
normally closed (NC)



bistable manual override

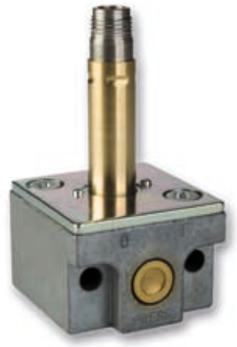


normally open (NO)

Technical Data / Standard Versions

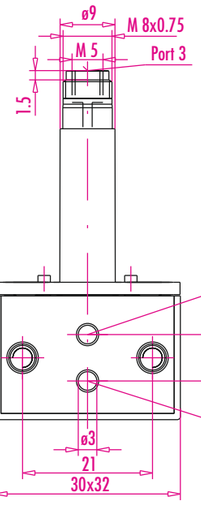
Drawing No.	Part No.	Power Level	Nominal Orifice Inlet / Exhaust [mm]	Pressure [bar]	Flow Data* [l/min]		Manual Override		Appropriate for		Armature Guide	Sealing Material	
					1 - 2	2 - 3	Bistable	Mono-stable	AC	DC	Brass	FPM**	HNBR
1433 59.6-00	260 8181	1	0.6/ 0.7	10	12	22				x	x		x
1433 20.6-00	260 5527	1	0.6/ 0.7	10	12	22	x	x		x	x	x	
1433 60.6-00	260 8182	1	0.6/ 0.7	10	12	22		x		x	x		x
1433 39.6-00	260 7310	1	0.8/ 1.0	8	20	30				x	x	x	
1433 09.6-00	260 5034	1	0.8/ 1.0	8	20	30	x	x		x	x	x	
1433 58.6-00	260 7311	1	0.8/ 1.0	8	20	30		x		x	x	x	
1417 15.6-00	260 8183	2	0.8/ 1.0	10	20	30			x	x	x		x
1417 49.6-00	260 7612	2	0.8/ 1.0	10	20	30	x	x	x	x	x	x	
1417 50.6-00	260 8184	2	0.8/ 1.0	10	20	30		x	x	x	x		x
1416 21.6-00	260 5269	3	1.0/ 1.3	10	35	60			x	x	x	x	
1416 20.6-00	260 5238	3	1.0/ 1.3	10	35	60	x	x	x	x	x	x	
1416 30.6-00	260 5279	3	1.0/ 1.3	10	35	60		x	x	x	x	x	
1416 95.6-00	260 8185	3	1.0/ 1.3	10	35	60		x	x	x	x		x
1436 01.6-00	260 7911	4	1.0/ 1.3	10	30	38				x	x	x	
1433 98.6-00	260 8014	4	1.0/ 1.3	10	30	38				x	x		x
1416 23.6-00	260 5270	4	1.3/ 1.5	10	50	75			x	x	x	x	
1416 22.6-00	260 5253	4	1.3/ 1.5	10	50	75	x	x	x	x	x	x	
1416 32.6-00	260 5284	4	1.3/ 1.5	10	50	75		x	x	x	x	x	
1416 27.6-00	260 5274	5	1.5/ 1.7	10	65	90			x	x	x	x	
1416 26.6-00	260 4984	5	1.5/ 1.7	10	65	90	x	x	x	x	x	x	
1416 36.6-00	260 5448	5	1.5/ 1.7	10	65	90		x	x	x	x	x	
1416 29.6-00	260 5277	6	1.7/ 1.7	10	80	90			x	x	x	x	
1416 28.6-00	260 5278	6	1.7/ 1.7	10	80	90	x	x	x	x	x	x	
1416 90.6-00	260 7408	6	1.7/ 1.7	10	80	90		x	x	x	x	x	
1416 25.6-00	260 5254	6	1.3/ 1.5	16	50	75			x	x	x	x	
1416 24.6-00	260 5287	6	1.3/ 1.5	16	50	75	x	x	x	x	x	x	
1416 56.6-00	260 5421	6	1.3/ 1.5	16	50	75		x	x	x	x	x	

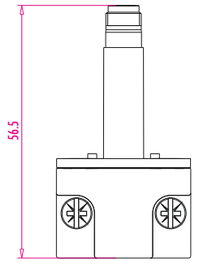
qv Flow rate at an inlet pressure of 6 bar (ΔX = 1bar) and 0°C
*** minimal permissible temperature -10°C (FPM), see summary of temperatures under "Useful Information", page 6*



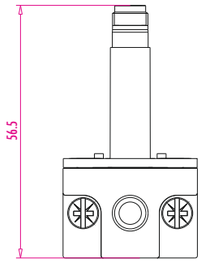
Valve System CNOMO

Height: 22 mm
Normally Closed (NC)
Valve Body: Zinc Die Casting

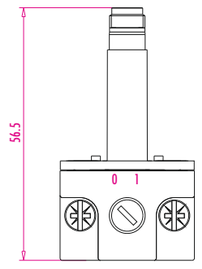




without manual override

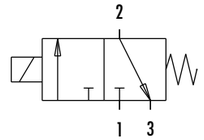


monostable manual override

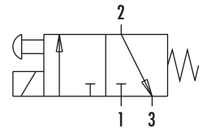


bistable manual override

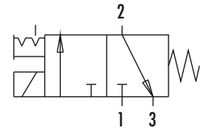
Pneumatic Diagram



without manual override



monostable manual override



bistable manual override

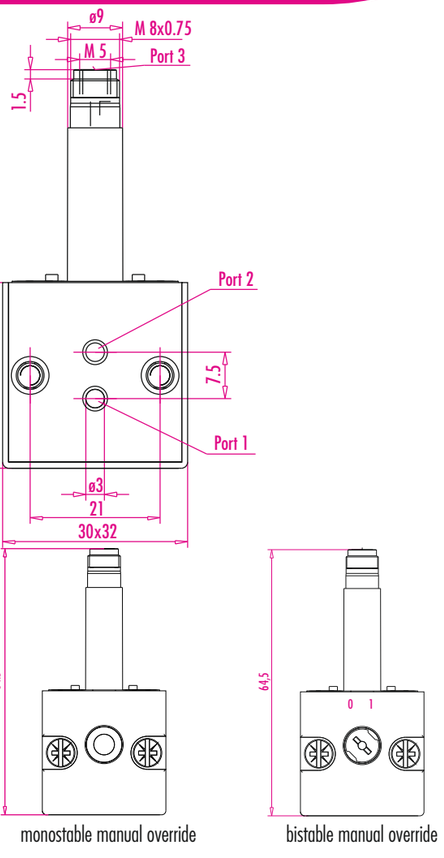
Technical Data / Standard Versions

Drawing No.	Part No.	Power Level	Nominal Orifice Inlet / Exhaust [mm]	Pressure [bar]	Flow Data* [l/min]		Manual Override		Appropriate for		Armature Guide	Sealing Material
					1 - 2	2 - 3	Bistable	Mono-stable	AC	DC	Brass	FPM**
1433 06.6-00	260 4999	1	0.8/ 1.0	8	20	30	x	x		x	x	x
1433 37.6-00	260 5910	1	0.8/ 1.0	8	20	30		x		x	x	x
1405 11.6-00	260 3046	3	1.0/ 1.3	10	35	60			x	x	x	x
1405 10.6-00	260 3045	3	1.0/ 1.3	10	35	60	x	x	x	x	x	x
1405 81.6-00	260 3934	3	1.0/ 1.3	10	35	60		x	x	x	x	x
1405 13.6-00	260 3048	4	1.3/ 1.5	10	50	75			x	x	x	x
1405 12.6-00	260 3047	4	1.3/ 1.5	10	50	75	x	x	x	x	x	x
1405 44.6-00	260 3573	4	1.3/ 1.5	10	50	75		x	x	x	x	x
1405 17.6-00	260 3052	5	1.5/ 1.7	10	65	90			x	x	x	x
1405 16.6-00	260 3051	5	1.5/ 1.7	10	65	90	x	x	x	x	x	x
1405 22.6-00	260 3422	5	1.5/ 1.7	10	65	90		x	x	x	x	x
1416 17.6-00	260 4898	5	1.0/ 1.3	16	35	60	x	x	x	x	x	x
1416 45.6-00	260 5225	5	1.0/ 1.3	16	35	60		x	x	x	x	x
1405 19.6-00	260 3054	6	1.7/ 1.7	10	84	94			x	x	x	x
1405 18.6-00	260 3053	6	1.7/ 1.7	10	84	94	x	x	x	x	x	x
1405 62.6-00	260 4307	6	1.7/ 1.7	10	84	94		x	x	x	x	x
1405 15.6-00	260 3050	6	1.3/ 1.5	16	50	75			x	x	x	x
1405 14.6-00	260 3049	6	1.3/ 1.5	16	50	75	x	x	x	x	x	x
1405 82.6-00	260 3935	6	1.3/ 1.5	16	50	75		x	x	x	x	x

qv Flow rate at an inlet pressure of 6 bar (ΔX = 1bar) and 0°C
*** minimal permissible temperature -10°C (FPM), see summary of temperatures under "Useful Information", page 6*

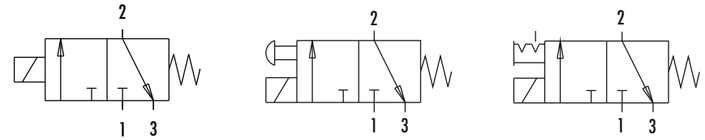
Valve System CNOMO

Height: 30 mm
Normally Closed (NC)
Valve Body: Plastic



without manual override | monostable manual override | bistable manual override

Pneumatic Diagram



without manual override | monostable manual override | bistable manual override

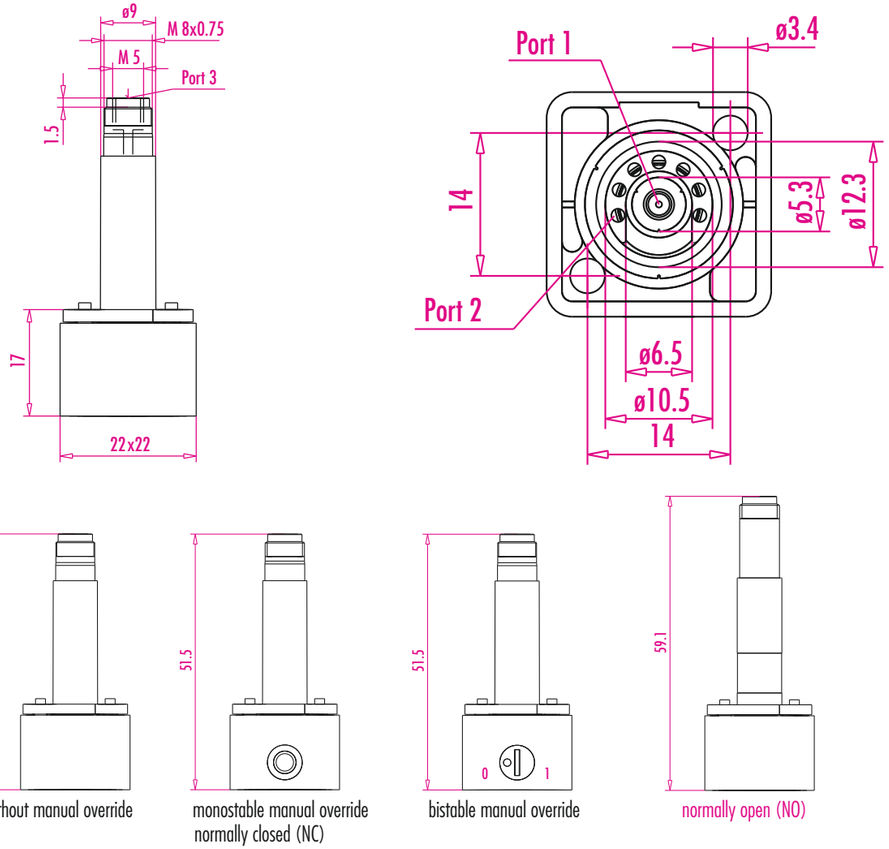
Technical Data / Standard Versions

Drawing No.	Part No.	Power Level	Nominal Orifice Inlet / Exhaust [mm]	Pressure [bar]	Flow Data* [l/min]		Manual Override		Appropriate for		Armature Guide	Sealing Material
					1 - 2	2 - 3	Bistable	Mono-stable	AC	DC	Brass	FPM**
1433 61.6-00	260 7033	1	0.8/ 1.0	8	20	30				x	x	x
1417 20.6-00	260 7921	3	1.0/ 1.3	10	35	60	x	x	x	x	x	x
1417 23.6-00	260 7576	4	1.3/ 1.5	10	50	75			x	x	x	x
1417 22.6-00	260 6370	4	1.3/ 1.5	10	50	75	x	x	x	x	x	x
1417 32.6-00	260 6758	4	1.3/ 1.5	10	50	75		x	x	x	x	x
1417 36.6-00	260 6760	5	1.5/ 1.7	10	65	90	x	x	x	x	x	x
1417 27.6-00	260 8191	6	1.3/ 1.5	16	50	75			x	x	x	x
1417 26.6-00	260 8192	6	1.3/ 1.5	16	50	75	x	x	x	x	x	x
1417 56.6-00	260 7574	6	1.3/ 1.5	16	50	75		x	x	x	x	x

**qv Flow rate at an inlet pressure of 6 bar (ΔX = 1bar) and 0°C*
*** minimal permissible temperature -10°C (FPM), see summary of temperatures under "Useful Information", page 6*

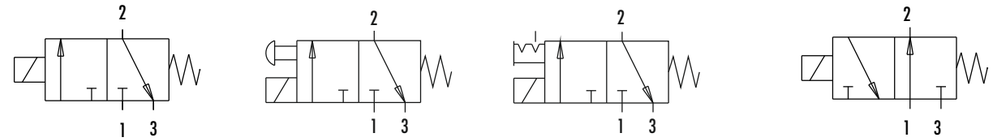
Valve System KR

Concentric O-Rings
3/2 Way Pilot Solenoid Valve
Normally Closed (NC)
Normally Open (NO)
Valve Body: Plastic



without manual override | monostable manual override normally closed (NC) | bistable manual override | normally open (NO)

Pneumatic Diagram



without manual override | monostable manual override normally closed (NC) | bistable manual override | normally open (NO)

Technical Data / Standard Versions

Drawing No.	Part No.	Power Level	Nominal Orifice Inlet / Exhaust [mm]	Pressure [bar]	Flow Data* [l/min]		Manual Override		Appropriate for		Armature Guide	Sealing Material
					1 - 2	2 - 3	Bistable	Mono-stable	AC	DC	Brass	FPM**
1433 62.6-00	260 6484	1	0.6/ 0.8	10	12	22				x	x	x
1433 30.6-00	260 5727	1	0.6/ 0.8	10	12	22	x			x	x	x
1433 05.6-00	260 4830	1	0.8/ 1.0	8	20	30				x	x	x
1433 64.6-00	260 6628	1	0.8/ 1.0	8	20	30	x			x	x	x
1433 65.6-00	260 7278	1	0.8/ 1.0	8	20	30		x		x	x	x
1415 86.6-00	260 8194	2	0.8/ 1.0	10	20	30			x	x	x	x
1415 74.6-00	260 8052	2	0.8/ 1.0	10	20	30	x		x	x	x	x
1415 87.6-00	260 8004	2	0.8/ 1.0	10	20	30		x	x	x	x	x
1405 33.6-00	260 3388	3	1.0/ 1.3	10	35	54			x	x	x	x
1405 30.6-00	260 3387	3	1.0/ 1.3	10	35	54	x		x	x	x	x
1415 27.6-00	260 5300	3	1.0/ 1.3	10	35	54		x	x	x	x	x
1436 00.6-00	260 7855	4	1.0/ 1.3	10	33	37				x	x	x
1405 34.6-00	260 3392	4	1.3/ 1.5	10	55	70			x	x	x	x
1405 31.6-00	260 3389	4	1.3/ 1.5	10	55	70	x		x	x	x	x
1415 17.6-00	260 5430	4	1.3/ 1.5	10	55	70		x	x	x	x	x
1405 35.6-00	260 3390	5	1.5/ 1.7	10	65	80			x	x	x	x
1405 32.6-00	260 3391	5	1.5/ 1.7	10	65	80	x		x	x	x	x
1415 08.6-00	260 4779	5	1.5/ 1.7	10	65	80		x	x	x	x	x

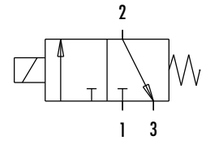
**qv Flow rate at an inlet pressure of 6 bar (ΔX = 1bar) and 0°C*

*** minimal permissible temperature -10°C (FPM), see summary of temperatures under "Useful Information", page 6*

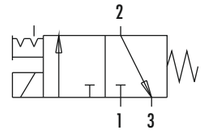
Valve System GKR

3/2 Way Pilot Solenoid Valve
with Internal Exhaust
Normally Closed (NC)
Valve Body: Plastic

Pneumatic Diagram



without manual override

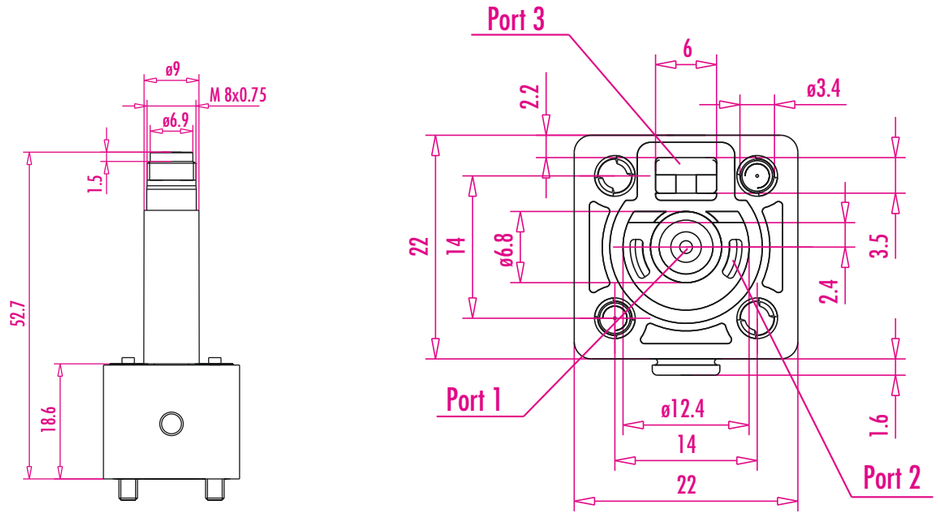


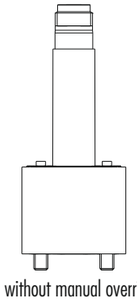
bistable manual override

Technical Data / Standard Versions

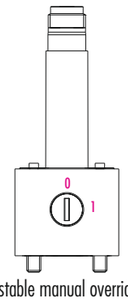
Drawing No.	Part No.	Power Level	Nominal Orifice Inlet / Exhaust [mm]	Pressure [bar]	Flow Data* [l/min]		Manual Override Bistable	Appropriate for		Armature Guide	Sealing Material
					1 - 2	2 - 3		AC	DC	Brass	FPM**
1415 70.6-50	260 6067	3	1.0/ 1.3	10	26	42		x	x	x	x
1415 69.6-00	260 5967	3	1.0/ 1.3	10	26	42	x	x	x	x	x
1415 57.6-50	260 5840	3	1.3/ 1.5	7	48	56		x	x	x	x
1415 55.6-50	260 5843	3	1.3/ 1.5	7	48	56	x	x	x	x	x
1415 56.6-50	260 5823	4	1.3/ 1.5	10	48	56		x	x	x	x
1415 43.6-00	260 5544	4	1.3/ 1.5	10	48	56	x	x	x	x	x

qv Flow rate at an inlet pressure of 6 bar (ΔX = 1bar) and 0°C
*** minimal permissible temperature -10°C (FPM), see summary of temperatures under "Useful Information", page 6*





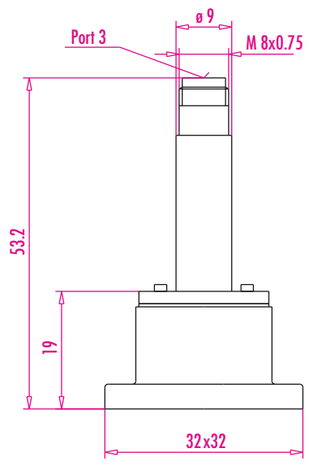
without manual override

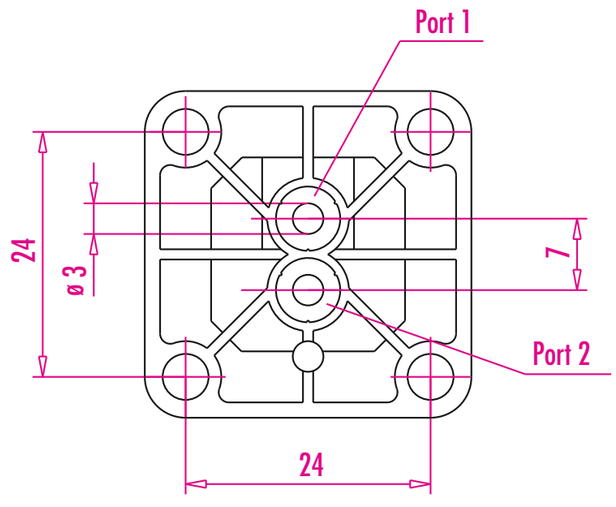


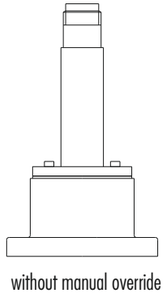
bistable manual override

Valve System FL - Flange

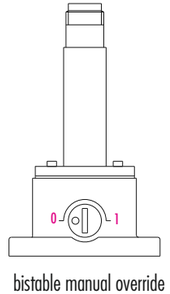
3/2 Way Pilot Solenoid Valve
Normally Closed (NC)
Valve Body: Plastic





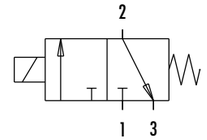


without manual override

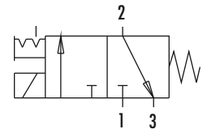


bistable manual override

Pneumatic Diagram



without manual override



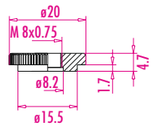
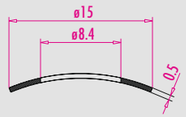
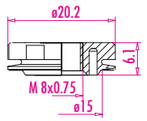
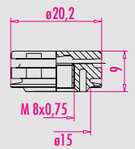
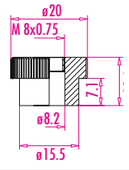
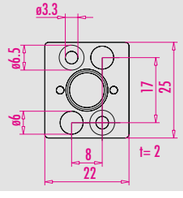
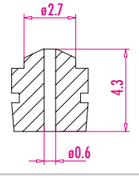
bistable manual override

Technical Data / Standard Versions

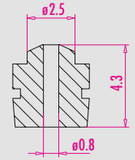
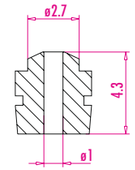
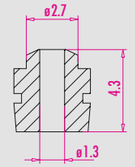
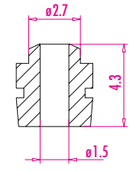
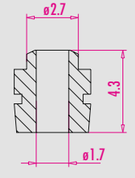
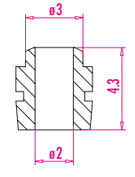
Drawing No.	Part No.	Power Level	Nominal Orifice Inlet / Exhaust [mm]	Pressure [bar]	Flow Data* [l/min]		Manual Override Bistable	Appropriate for		Armature Guide	Sealing Material
					1 - 2	2 - 3		AC	DC	Brass	FPM**
1406 41.6-00	260 3923	3	1.0/ 1.3	10	25	58		x	x	x	x
1406 40.6-00	260 3926	3	1.0/ 1.3	10	25	58	x	x	x	x	x
1406 43.6-00	260 3924	4	1.3/ 1.5	10	52	80		x	x	x	x
1406 42.6-00	260 3927	4	1.3/ 1.5	10	52	80	x	x	x	x	x
1406 45.6-00	260 3925	5	1.5/ 1.7	10	64	88		x	x	x	x
1406 44.6-00	260 3928	5	1.5/ 1.7	10	64	88	x	x	x	x	x
1406 47.6-00	260 4625	6	1.7/ 1.7	10	85	90		x	x	x	x
1406 46.6-00	260 3985	6	1.7/ 1.7	10	85	90	x	x	x	x	x

qv Flow rate at an inlet pressure of 6 bar (ΔX = 1bar) and 0°C
*** minimal permissible temperature -10°C (FPM), see summary of temperatures under "Useful Information", page 6*

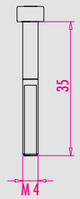
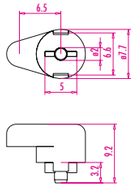
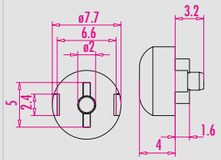
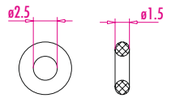
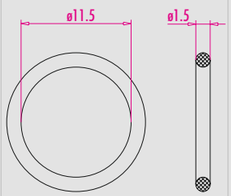
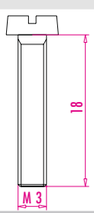
Accessories

Name / Type	Drawing No.	Part No.	Photo	Ill. with Dimensions	Explanations
Knurled nut	0537 00.0-08	260 2956			Tightening torque max. 1.2 Nm
Spring washer	NN 3162 251	260 0013			Use only in combination with knurled nut 260 3692
Knurled nut	0537 00.0-11	260 5392			Tightening torque max. 0.5 Nm
Exhaust protector	1433 10.0-01	260 5393			Tightening torque max. 0.5 Nm
Knurled nut	0547 50.0-01	260 7802			For all NO armature assemblies and valve systems
Fastening plate	1432 00.0-01	260 0041			For armature assembly FL only, p. 30/31
Valve seat Ms	0537 00.6-16	260 4329			Orifice size 0.6

Accessories

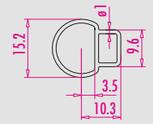
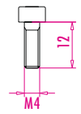
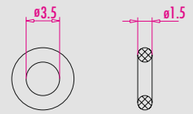
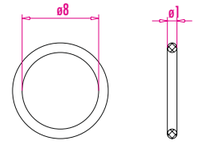
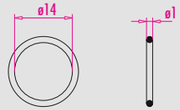
Name / Type	Drawing No.	Part No.	Photo	Ill. with Dimensions	Explanations
Valve seat Ms	0537 00.6-11	260 3096			- Orifice size 0.8
Valve seat Ms	0537 00.6-06	260 0014			- Orifice size 1.0
Valve seat Ms	0537 00.6-07	260 0106			- Orifice size 1.3
Valve seat Ms	0537 00.6-02	260 0487			- Orifice size 1.5
Valve seat Ms	0537 00.6-04	260 2954			- Orifice size 1.7
Valve seat Ms	0537 00.6-24	260 5537			- Orifice size 2.0

Accessories

Name / Type	Drawing No.	Part No.	Photo	Ill. with Dimensions	Explanations
Cheese-head screw	NN 3001 072	260 3280			M 4x35mm, with slots and cross slots Tightening torque max. 1.5 Nm For valve system CNOMO only, p. 34 - 39
Clamping cap	1416 20.6-03	260 5257			Push and turn actuation, clip-on type, for bistable manual override For valve system CNOMO only, p. 34 - 39
Push-cap	1416 20.6-04	260 5258			Push actuation, clip-on type, for monostable manual override For valve system CNOMO only, p. 34 - 39
O-Ring FPM	NN 3912 022	260 3908			2.5x1.5 mm, only for valve systems KR and GKR, p. 40 - 43
O-Ring FPM	NN 3912 111	260 3909			11.5x1.5 mm, only for valve system KR, p. 40 / 41
Cheese-head screw*	NN 3001 017	260 2069			M 3x18 mm, slotted and with cross recess, tightening torque max. 0.5 Nm Only for valve system KR, p. 40 / 41

**Two screws are required per valve system*

Accessories

Name / Type	Drawing No.	Part No.	Photo	Ill. with Dimensions	Explanations
Seal FPM	1415 43.0-11	260 5518			Only for valve system GKR, p. 42 / 43
Cheese-head screw FE*	NN 3001 026	260 2075			M 4x12 mm, tightening torque max. 0.7 Nm only for valve system FL, p. 44 / 45
O-Ring FPM	NN 3912 031	260 3912			3.5x1.5 mm, only for valve system FL, p. 44/45
O-Ring FPM	NN 3912 083	260 3322			8.0x1.0 mm, to obtain IP 67, remarks on p. 27
O-Ring FPM	NN 3912 141	260 2470			14.0x1.0mm, to obtain IP 67, remarks on p. 27

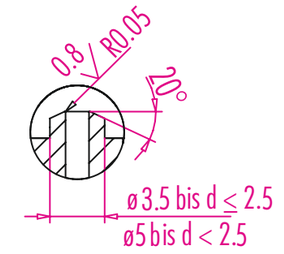
**Two screws are required per valve system*

Pneumatic Interface

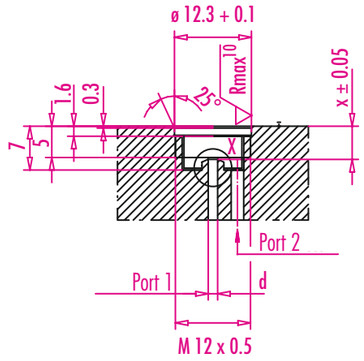
Diameter	Over-Allowance	Under-Allowance
12 H9	+0.043	0

—— Possible position of port 2

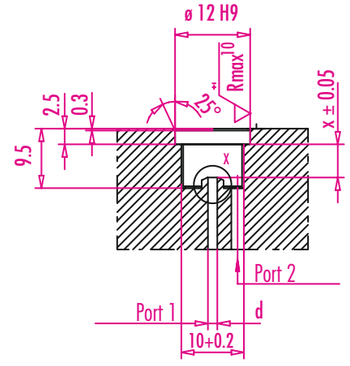
X (5:1)



Thread version with O-ring sealing



Flange version with O-ring sealing



d	x	
	1 2	2 1 3
0.6	5.00	5.20
0.8	5.05	5.25
1.0	5.10	5.30
1.3	5.15	5.30
1.5	5.20	5.30
1.7	5.25	5.30
2.0	5.30	-
2.5	5.40	-
3.0	5.50	-
3.5	5.60	-

3.2 (0.8 Rmax 10)

-0.05

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