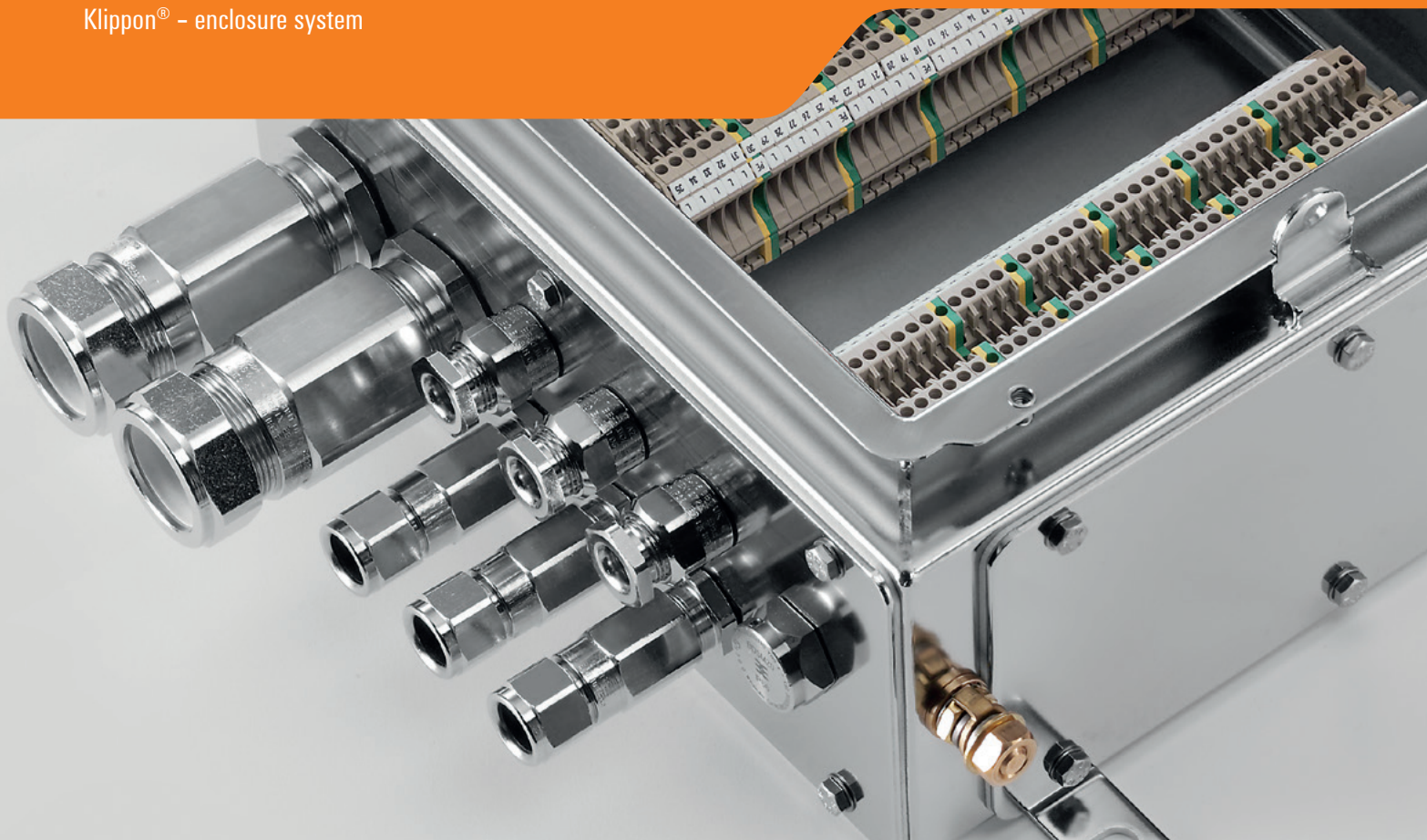


Complete the connection to your components
Best protection with Klippon® cable gland systems
Let's connect.

Klippon® - enclosure system



Weidmüller 

Klippon® Cable Glands

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Ex e, Ex d cable glands for armoured and un-armoured cable

In addition to our existing assortment of cable glands we now launch a new Klippon® family of glands for armoured and un-armoured cables for use in Ex e (increased safety) and Ex d (flameproof) applications. Additionally there are Klippon® stopping plugs and accessories such as locknuts, IP washers, serrated washers, shrouds and earth tags available.

The cable glands are certified according to the latest ATEX and IECEx (EN/IEC 60079-0/1/7) standard and are marked with the Weidmüller brand. Depending on the type of gland it is possible to terminate screened, braided, lead sheathed cables as well as steel wire and steel tape cables from M20 to M75. They have a temperature withstand range from -60 °C to +180 °C.



Overview cable glands and applications

ATEX / IECEx certified cable glands and stopping plugs

Cable Gland Type	Outer Elastomeric Seal	Inner Elastomeric Seal	Lead Option	Armour Clamp	Certification	IP Rating	Page No.
KDSU	YES	YES	NO	Universal	Ex d / Ex e	IP 68	6
KDSW	YES	YES	YES	Steel wire	Ex d / Ex e	IP 66, IP 68	10
KDSX	YES	YES	NO	Braided	Ex d / Ex e	IP 66, IP 68	15
KUB	YES	Compound	NO	Universal	Ex d	IP 68	21
KSG	YES	NO	NO	No	Ex d / Ex e	IP 66, IP 68	18
Stopping Plug							
KSPMH	-	-	-	-	Ex d / Ex e	IP 66, IP 68	24
KSPA	-	-	-	-	Ex d	IP 54	26

Accessories

A comprehensive range of accessories such as locknuts, earth tags, IP washers, serrated washers and shrouds are available.

Type	Thread Accessories for Cable Glands	Material
SKMU	Locknut	Brass, nickel-plated
GWDR PD	IP washer	Polyethylene
GWDR NP	IP washer	Neoprene
KSWN	IP washer	Nylon
KSWF	IP washer	Vulcanised fibre
SZS	Serrated washer	Stainless Steel
EA-RING	Earth Tag	Brass, nickel-plated
Shrouds		
KSP	Shroud	PVC
KSP-S	Shroud	Silicone

Klippon® KDSU Cable Glands



The KDSU type glands provide a universal armour clamp for steel wire, steel tape, screened or braided cables. An electrical bond between the cable armour and the gland is ensured. The gland can also be used to terminate un-armoured cables. In addition, the gland is fitted with two separate seals to seal the outer and inner cable insulation. When choosing the gland with a neoprene sealing a temperature range from -20 °C to +85 °C will be achieved. Whereas the gland with silicone sealing ensures a temperature range from -60 °C to +180 °C. With both sealing Materials an IP rating of IP68 to 25 metres (30 min. at 2,5 bar) is maintained. The KDSU type gland is approved for Flameproof Ex d and Increased Safety Ex e applications.

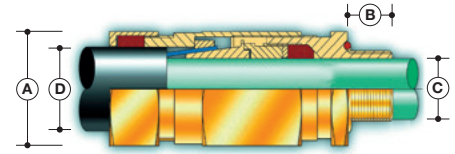


Technical Data

Material	Brass CuZnPb3 (CZ121)				
Sealing ring	Neoprene, Silicone				
Class of protection	IP 68 (30 minutes at 25 metres water depth)				
Thread	ISO Metric				
Plating	Nickel-plated (NI); Self-coloured (SC)				
Temperature range	With neoprene sealing: -20 °C to +85 °C, with silicone sealing: -60 °C to +180 °C				
Design Standard	EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-31 IEC 60079-0, IEC 60079-1, IEC 60079-7				
Certification	ATEX: II 2 G, Ex d IIC Gb / Ex e IIC Gb / II 1D / Ex ta IIIC Da IECEX: Ex d IIC Gb / Ex e IIC Gb / Ex ta IIIC Da				
Certificates	SIRA 05ATEX1285X IECEX SIR 05.0067X				
Application: Ex d Equipment	The KDSU glands will only maintain Flameproof Ex d integrity when used with a cable that is substantially round and compact with extruded bedding. The cable shall be deemed to be effectively filled. The cable should fulfill the IEC 60079-14 chapter 10.4.2 standard.				
Ex d Applications	Gas Group IIC, IIB, IIA	Internal Ignition Source NO	Enclosure Volume Any	Zone Zone 1 or 2	Use KDSU YES
	IIB, IIA	YES	Any	Zone 2	YES
	IIB, IIA	YES	2 litres or less	Zone 1	YES
Ex e Applications	Gas Group II	Zone Zone 1 and 2			
Other Applications	Ignitable Dust, Zone 21 and 22				

Structure of the part description

Order key	[Type]	[a]	[b]	[c]	[d]	[e]	[f]	[ggg]
Example article description	KDSU	M20	B	S	0	SC	1	G16
Meaning	[Type] = Gland type (KDSU) [a] = Entry thread (M20-M75) [b] = Material (B = brass) [c] = Seal material (S = Silicone, N = Neoprene) [d] = Continuity for lead sheath (L = yes, 0 = no) [e] = Plating (SC = self-coloured, NI = Nickel) [f] = Cable outer sheath (1 = Reduced, 2 = Standard) [ggg] = Gland size (G16-G75)							
Note	Refer to page 36 Selection Guide Klippon® Cable Glands to determine the suitable order number							



Dimensions

Gland Size [ggg]	Entry thread [a]	Entry thread Length [B]	Max Outer Diameter [A]	Max Length	Gland Seal Range						Armour Acceptance Range	Shroud Size
					Cable Inner Sheath [C]		Cable Outer Sheath [D]					
					Min	Max	Standard [f] = 2		Reduced [f] = 1			
						Min	Max	Min	Max			
G16	M20	16	28.0	78.0	3.4	8.4	9.0	13.5	6.7	10.3	0.15 - 1.25	L24
G20S	M20	16	28.0	78.0	7.2	11.7	11.5	16.0	9.4	12.5	0.15 - 1.25	L24
G20	M20	16	33.0	78.0	9.4	14.0	15.5	21.1	12.0	17.6	0.15 - 1.25	EL30
G25	M25	16	41.4	90.0	13.5	20.0	20.3	27.4	16.8	23.9	0.15 - 1.60	EL38
G32	M32	16	50.6	105.0	19.5	26.3	26.7	34.0	23.2	30.5	0.15 - 2.00	EL46
G40	M40	16	60.5	113.0	23.0	32.2	33.0	40.6	28.6	36.2	0.20 - 2.00	EL55
G50S	M50	16	71.5	125.0	28.1	38.2	39.4	46.7	34.8	42.4	0.30 - 2.50	EL65
G50	M50	16	71.5	125.0	33.1	44.1	45.7	53.2	41.1	48.5	0.30 - 2.50	EL65
G63S	M63	19	88.0	125.0	39.2	50.1	52.1	59.5	47.5	54.8	0.30 - 2.50	EL80
G63	M63	19	88.0	125.0	46.7	56.0	58.4	65.8	53.8	61.2	0.30 - 2.50	EL80
G75S	M75	19	99.0	131.0	52.1	62.0	64.8	72.2	60.2	68.0	0.30 - 2.50	EL90
G75	M75	19	99.0	131.0	58.0	68.0	71.1	78.0	66.5	73.4	0.30 - 2.50	EL90

Dimensions in mm

Important Notes

- The gland size does not necessarily equate to the entry thread size.
- In some cases several gland sizes can be chosen due to overlapping inner as well as outer cable diameters. Due to the wide range of armoured cables available, it is necessary to select the correct clamping range. This is achieved by taking the inner and outer clamping range values to determine the best fit (as close as possible to the Min/Max values average).
- All cable glands have a 1.5 mm pitch.
- For Flameproof Ex d applications the female thread into which the gland is to be fitted must achieve an engagement of at least 5 full threads in compliance with clause 5.3 of EN/IEC 60079-1.
- Where KDSU glands are fitted into non-metallic Increased Safety Ex e enclosures they must be included within the earth circuit of the system.
- Fully assembly instructions are supplied with the glands. The instructions must be read prior to installation and adhered to in full.
- When the gland is used to terminate un-armoured cables, the gland is suitable only for fixed installation

Nickel-plated brass gland with neoprene sealing

Order No.	Description	[Type]	[a]	[b]	[c]	[d]	[e]	[f]	[ggg]	Qty.
1083280000	KDSU M20 BN 0 NI 1 G16	KDSU	M20	B	N	0	NI	1	G16	20
1911380000	KDSU M20 BN 0 NI 2 G16	KDSU	M20	B	N	0	NI	2	G16	20
1083290000	KDSU M20 BN 0 NI 1 G20S	KDSU	M20	B	N	0	NI	1	G20S	20
1911390000	KDSU M20 BN 0 NI 2 G20S	KDSU	M20	B	N	0	NI	2	G20S	20
1083320000	KDSU M20 BN 0 NI 1 G20	KDSU	M20	B	N	0	NI	1	G20	20
1911400000	KDSU M20 BN 0 NI 2 G20	KDSU	M20	B	N	0	NI	2	G20	20
1083330000	KDSU M25 BN 0 NI 1 G25	KDSU	M25	B	N	0	NI	1	G25	20
1911420000	KDSU M25 BN 0 NI 2 G25	KDSU	M25	B	N	0	NI	2	G25	20
1083340000	KDSU M32 BN 0 NI 1 G32	KDSU	M32	B	N	0	NI	1	G32	10
1911430000	KDSU M32 BN 0 NI 2 G32	KDSU	M32	B	N	0	NI	2	G32	10
1083350000	KDSU M40 BN 0 NI 1 G40	KDSU	M40	B	N	0	NI	1	G40	10
1911440000	KDSU M40 BN 0 NI 2 G40	KDSU	M40	B	N	0	NI	2	G40	10
1083360000	KDSU M50 BN 0 NI 1 G50S	KDSU	M50	B	N	0	NI	1	G50S	1
1911450000	KDSU M50 BN 0 NI 2 G50S	KDSU	M50	B	N	0	NI	2	G50S	1
1083370000	KDSU M50 BN 0 NI 1 G50	KDSU	M50	B	N	0	NI	1	G50	1
1911460000	KDSU M50 BN 0 NI 2 G50	KDSU	M50	B	N	0	NI	2	G50	1
1083380000	KDSU M63 BN 0 NI 1 G63S	KDSU	M63	B	N	0	NI	1	G63S	1
1911480000	KDSU M63 BN 0 NI 2 G63S	KDSU	M63	B	N	0	NI	2	G63S	1
1083390000	KDSU M63 BN 0 NI 1 G63	KDSU	M63	B	N	0	NI	1	G63	1
1911490000	KDSU M63 BN 0 NI 2 G63	KDSU	M63	B	N	0	NI	2	G63	1
1083400000	KDSU M75 BN 0 NI 1 G75S	KDSU	M75	B	N	0	NI	1	G75S	1
1083410000	KDSU M75 BN 0 NI 2 G75S	KDSU	M75	B	N	0	NI	2	G75S	1
1083420000	KDSU M75 BN 0 NI 1 G75	KDSU	M75	B	N	0	NI	1	G75	1
1083430000	KDSU M75 BN 0 NI 2 G75	KDSU	M75	B	N	0	NI	2	G75	1

Self-coloured brass gland with neoprene sealing

Order No.	Description	[Type]	[a]	[b]	[c]	[d]	[e]	[f]	[ggg]	Qty.
1076120000	KDSU M20 BN 0 SC 1 G16	KDSU	M20	B	N	0	SC	1	G16	20
1909260000	KDSU M20 BN 0 SC 2 G16	KDSU	M20	B	N	0	SC	2	G16	20
1076130000	KDSU M20 BN 0 SC 1 G20S	KDSU	M20	B	N	0	SC	1	G20S	20
1909290000	KDSU M20 BN 0 SC 2 G20S	KDSU	M20	B	N	0	SC	2	G20S	20
1076140000	KDSU M20 BN 0 SC 1 G20	KDSU	M20	B	N	0	SC	1	G20	20
1909300000	KDSU M20 BN 0 SC 2 G20	KDSU	M20	B	N	0	SC	2	G20	20
1076150000	KDSU M25 BN 0 SC 1 G25	KDSU	M25	B	N	0	SC	1	G25	20
1909310000	KDSU M25 BN 0 SC 2 G25	KDSU	M25	B	N	0	SC	2	G25	20
1076160000	KDSU M32 BN 0 SC 1 G32	KDSU	M32	B	N	0	SC	1	G32	10
1909320000	KDSU M32 BN 0 SC 2 G32	KDSU	M32	B	N	0	SC	2	G32	10
1076170000	KDSU M40 BN 0 SC 1 G40	KDSU	M40	B	N	0	SC	1	G40	10
1909330000	KDSU M40 BN 0 SC 2 G40	KDSU	M40	B	N	0	SC	2	G40	10
1076180000	KDSU M50 BN 0 SC 1 G50S	KDSU	M50	B	N	0	SC	1	G50S	1
1909340000	KDSU M50 BN 0 SC 2 G50S	KDSU	M50	B	N	0	SC	2	G50S	1
1076190000	KDSU M50 BN 0 SC 1 G50	KDSU	M50	B	N	0	SC	1	G50	1
1909350000	KDSU M50 BN 0 SC 2 G50	KDSU	M50	B	N	0	SC	2	G50	1
1076200000	KDSU M63 BN 0 SC 1 G63S	KDSU	M63	B	N	0	SC	1	G63S	1
1909360000	KDSU M63 BN 0 SC 2 G63S	KDSU	M63	B	N	0	SC	2	G63S	1
1076210000	KDSU M63 BN 0 SC 1 G63	KDSU	M63	B	N	0	SC	1	G63	1
1909370000	KDSU M63 BN 0 SC 2 G63	KDSU	M63	B	N	0	SC	2	G63	1
1076220000	KDSU M75 BN 0 SC 1 G75S	KDSU	M75	B	N	0	SC	1	G75S	1
1076230000	KDSU M75 BN 0 SC 2 G75S	KDSU	M75	B	N	0	SC	2	G75S	1
1076240000	KDSU M75 BN 0 SC 1 G75	KDSU	M75	B	N	0	SC	1	G75	1
1076260000	KDSU M75 BN 0 SC 2 G75	KDSU	M75	B	N	0	SC	2	G75	1

Nickel-plated brass gland with silicone sealing

Order No.	Description	[Type]	[a]	[b]	[c]	[d]	[e]	[f]	[ggg]	Qty.
0930001221	KDSU M20 BS 0 NI 1 G16	KDSU	M20	B	S	0	NI	1	G16	20
0930001222	KDSU M20 BS 0 NI 2 G16	KDSU	M20	B	S	0	NI	2	G16	20
0930011223	KDSU M20 BS 0 NI 1 G20S	KDSU	M20	B	S	0	NI	1	G20S	20
0930011224	KDSU M20 BS 0 NI 2 G20S	KDSU	M20	B	S	0	NI	2	G20S	20
0930021221	KDSU M20 BS 0 NI 1 G20	KDSU	M20	B	S	0	NI	1	G20	20
0930021222	KDSU M20 BS 0 NI 2 G20	KDSU	M20	B	S	0	NI	2	G20	20
0930031221	KDSU M25 BS 0 NI 1 G25	KDSU	M25	B	S	0	NI	1	G25	20
0930031222	KDSU M25 BS 0 NI 2 G25	KDSU	M25	B	S	0	NI	2	G25	20
0930041221	KDSU M32 BS 0 NI 1 G32	KDSU	M32	B	S	0	NI	1	G32	10
0930041222	KDSU M32 BS 0 NI 2 G32	KDSU	M32	B	S	0	NI	2	G32	10
1136990000	KDSU M40 BS 0 NI 1 G40	KDSU	M40	B	S	0	NI	1	G40	10
0930051222	KDSU M40 BS 0 NI 2 G40	KDSU	M40	B	S	0	NI	2	G40	10
1137000000	KDSU M50 BS 0 NI 1 G50S	KDSU	M50	B	S	0	NI	1	G50S	1
0930061224	KDSU M50 BS 0 NI 2 G50S	KDSU	M50	B	S	0	NI	2	G50S	1
1137010000	KDSU M50 BS 0 NI 1 G50	KDSU	M50	B	S	0	NI	1	G50	1
1137020000	KDSU M50 BS 0 NI 2 G50	KDSU	M50	B	S	0	NI	2	G50	1
1137030000	KDSU M63 BS 0 NI 1 G63S	KDSU	M63	B	S	0	NI	1	G63S	1
1137040000	KDSU M63 BS 0 NI 2 G63S	KDSU	M63	B	S	0	NI	2	G63S	1
1137050000	KDSU M63 BS 0 NI 1 G63	KDSU	M63	B	S	0	NI	1	G63	1
0930091222	KDSU M63 BS 0 NI 2 G63	KDSU	M63	B	S	0	NI	2	G63	1
1137060000	KDSU M75 BS 0 NI 1 G75S	KDSU	M75	B	S	0	NI	1	G75S	1
1137070000	KDSU M75 BS 0 NI 2 G75S	KDSU	M75	B	S	0	NI	2	G75S	1
1137080000	KDSU M75 BS 0 NI 1 G75	KDSU	M75	B	S	0	NI	1	G75	1
1137090000	KDSU M75 BS 0 NI 2 G75	KDSU	M75	B	S	0	NI	2	G75	1

Self-coloured brass gland with silicone sealing

Order No.	Description	[Type]	[a]	[b]	[c]	[d]	[e]	[f]	[ggg]	Qty.
0930001211	KDSU M20 BS 0 SC 1 G16	KDSU	M20	B	S	0	SC	1	G16	20
0930001212	KDSU M20 BS 0 SC 2 G16	KDSU	M20	B	S	0	SC	2	G16	20
0930011213	KDSU M20 BS 0 SC 1 G20S	KDSU	M20	B	S	0	SC	1	G20S	20
0930011214	KDSU M20 BS 0 SC 2 G20S	KDSU	M20	B	S	0	SC	2	G20S	20
0930021211	KDSU M20 BS 0 SC 1 G20	KDSU	M20	B	S	0	SC	1	G20	20
0930021212	KDSU M20 BS 0 SC 2 G20	KDSU	M20	B	S	0	SC	2	G20	20
0930031211	KDSU M25 BS 0 SC 1 G25	KDSU	M25	B	S	0	SC	1	G25	20
0930031212	KDSU M25 BS 0 SC 2 G25	KDSU	M25	B	S	0	SC	2	G25	20
0930041211	KDSU M32 BS 0 SC 1 G32	KDSU	M32	B	S	0	SC	1	G32	10
0930041212	KDSU M32 BS 0 SC 2 G32	KDSU	M32	B	S	0	SC	2	G32	10
1136870000	KDSU M40 BS 0 SC 1 G40	KDSU	M40	B	S	0	SC	1	G40	10
0930051212	KDSU M40 BS 0 SC 2 G40	KDSU	M40	B	S	0	SC	2	G40	10
0930061213	KDSU M50 BS 0 SC 1 G50S	KDSU	M50	B	S	0	SC	1	G50S	1
1136880000	KDSU M50 BS 0 SC 2 G50S	KDSU	M50	B	S	0	SC	2	G50S	1
1136890000	KDSU M50 BS 0 SC 1 G50	KDSU	M50	B	S	0	SC	1	G50	1
1136910000	KDSU M50 BS 0 SC 2 G50	KDSU	M50	B	S	0	SC	2	G50	1
1136920000	KDSU M63 BS 0 SC 1 G63S	KDSU	M63	B	S	0	SC	1	G63S	1
1136930000	KDSU M63 BS 0 SC 2 G63S	KDSU	M63	B	S	0	SC	2	G63S	1
1136940000	KDSU M63 BS 0 SC 1 G63	KDSU	M63	B	S	0	SC	1	G63	1
1136950000	KDSU M63 BS 0 SC 2 G63	KDSU	M63	B	S	0	SC	2	G63	1
1136960000	KDSU M75 BS 0 SC 1 G75S	KDSU	M75	B	S	0	SC	1	G75S	1
1136970000	KDSU M75 BS 0 SC 2 G75S	KDSU	M75	B	S	0	SC	2	G75S	1
1136980000	KDSU M75 BS 0 SC 1 G75	KDSU	M75	B	S	0	SC	1	G75	1
0930111212	KDSU M75 BS 0 SC 2 G75	KDSU	M75	B	S	0	SC	2	G75	1

Klippon® KDSW Cable Glands



The KDSW glands provide an armour clamp for steel wire, steel tape and lead sheathed cables. An electrical bond between the cable armour and the gland is ensured. In addition, the gland is fitted with two separate sealings to seal the outer and inner cable insulation. When choosing the gland with a neoprene sealing a temperature range from -20 °C to +85 °C will be achieved, whereas the gland with silicone sealing ensures a temperature range from -60 °C to +180 °C. With both sealing materials an IP rating of IP66 and IP68 to 25 metres (30 min at 2,5 bar) is maintained. The KDSW gland is approved for Flameproof Ex d and Increased Safety Ex e applications.

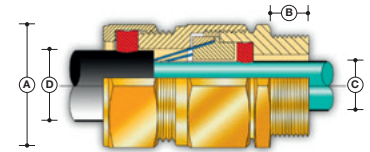


Technical Data

Material	Brass CuZnPb3 (CZ121)				
Sealing ring	Neoprene or Silicone				
Class of protection	IP 66 and IP 68 (30 minutes at 25 metres water depth)				
Thread	ISO Metric				
Plating	Nickel-plated (NI); Self-coloured (SC)				
Temperature range	With neoprene sealing: -20 °C to +85 °C, with silicone sealing: -60 °C to +180 °C				
Design Standard	EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-31 IEC 60079-0, IEC 60079-1, IEC 60079-7				
Certification	ATEX: II 2 G, Ex d IIC Gb / Ex e IIC Gb / II 1 D / Ex ta IIIC Da IECEX: Ex d IIC Gb / Ex e IIC Gb / Ex ta IIIC Da				
Certificates	SIRA 05ATEX1286X IECEX SIR 05.0067X				
Application: Ex d Equipment	The KDSW glands will only maintain Flameproof Ex d integrity when used with a cable that is substantially round and compact with extruded bedding. The cable shall be deemed to be effectively filled. The cable should fulfill the IEC 60079-14 chapter 10.4.2 standard.				
Ex d Applications	Gas Group IIC, IIB, IIA	Internal Ignition Source NO	Enclosure Volume Any	Zone Zone 1 or 2	Use KDSW YES
	IIB, IIA	YES	Any	Zone 2	YES
	IIB, IIA	YES	2 litres or less	Zone 1	YES
Ex e Applications	Gas Group II	Zone Zone 1 and 2			
Other Applications	Ignitable Dust, Zone 21 and 22				

Structure of the part description

Order key	[Type]	[a]	[b]	[c]	[d]	[e]	[f]	[ggg]
Example article description	KDSW	M20	B	S	L	SC	1	G16
Meaning	[Type] = Gland type (KDSW) [a] = Entry thread (M20-M75) [b] = Material (B = brass) [c] = Seal material (S = Silicone, N = Neoprene) [d] = Continuity for lead sheath (L = yes, O = no) [e] = Plating (SC = self-coloured, NI = Nickel) [f] = Cable outer sheath (1 = Reduced, 2 = Standard) [ggg] = Gland size (G16-G75)							
Note	Refer to page 36 Selection Guide Klippon® Cable Glands to determine the suitable order number							



Dimensions

Gland Size	Entry thread	Entry thread Length	Max Outer Diameter	Max Length	Gland Seal Range						Armour Acceptance Range	Shroud Size
					Cable Inner Sheath [C]		Cable Outer Sheath [D]					
					Min	Max	Standard [f] = 2		Reduced [f] = 1			
[ggg]	[a]	[B]	[A]			Min	Max	Min	Max			
G16	M20	16	26.5	58.0	4.0	8.4	8.4	13.5	4.9	10.0	0.90	L24
G20S	M20	16	26.5	58.0	8.0	11.7	11.5	16.0	9.4	12.5	0.90 - 1.25	L24
G20	M20	16	33.0	58.0	6.7	14.0	15.5	21.1	12.0	17.6	0.90 - 1.25	L30
G25	M25	16	41.4	58.0	13.0	20.0	20.3	27.4	16.8	23.9	1.25 - 1.60	L38
G32	M32	16	50.6	65.0	19.0	26.3	26.7	34.0	23.2	30.5	1.60 - 2.00	L46
G40	M40	16	60.5	72.0	25.0	32.2	33.0	40.6	28.6	36.2	1.60 - 2.00	L55
G50S	M50	16	71.5	73.0	31.5	38.2	39.4	46.7	34.8	42.4	2.00 - 2.50	L65
G50	M50	16	71.5	73.0	36.5	44.1	45.7	53.2	41.1	48.5	2.00 - 2.50	L65
G63S	M63	19	88.0	76.0	42.5	50.1	52.1	59.5	47.5	54.8	2.50	L80
G63	M63	19	88.0	76.0	49.5	56.0	58.4	65.8	53.8	61.2	2.50	L80
G75S	M75	19	99.0	82.0	54.5	62.0	64.8	72.2	60.2	68.0	2.50	L90
G75	M75	19	99.0	82.0	60.5	68.0	71.1	78.0	66.5	73.4	2.5	L90
Dimensions in mm												

Important Notes

- The gland size does not necessarily equate to the entry thread size.
- In some cases several gland sizes can be chosen due to overlapping inner as well as outer cable diameters. Due to the wide range of armoured cables available, it is necessary to select the correct clamping range. This is achieved by taking the inner and outer clamping range values to determine the best fit (as close as possible to the Min/Max values average).
- All cable glands have a 1.5 mm pitch.
- For Flameproof Ex d applications the female thread into which the gland is to be fitted must achieve an engagement of at least 5 full threads in compliance with clause 5.3 of EN/IEC 60079-1.
- Where KDSW glands are fitted into non-metallic Increased Safety Ex e enclosures they must be included within the earth circuit of the system.
- Fully assembly instructions are supplied with the glands. The instructions must be read prior to installation and adhered to in full.
- When the gland is used to terminate un-armoured cables, the gland is suitable only for fixed installation.
- KDSW gland size G20 with silicone seal, the silicone inner seal only seals to a minimum of 11 mm and NOT 6.7 mm.

Nickel-plated brass gland with neoprene sealing

Order No.	Description	[Type]	[a]	[b]	[c]	[d]	[e]	[f]	[ggg]	Qty.
1075030000	KDSW M20 BN O NI 1 G16	KDSW	M20	B	N	0	NI	1	G16	20
1075040000	KDSW M20 BN O NI 2 G16	KDSW	M20	B	N	0	NI	2	G16	20
1075050000	KDSW M20 BN O NI 1 G20S	KDSW	M20	B	N	0	NI	1	G20S	20
1075060000	KDSW M20 BN O NI 2 G20S	KDSW	M20	B	N	0	NI	2	G20S	20
1075070000	KDSW M20 BN O NI 1 G20	KDSW	M20	B	N	0	NI	1	G20	20
1075080000	KDSW M20 BN O NI 2 G20	KDSW	M20	B	N	0	NI	2	G20	20
1075090000	KDSW M25 BN O NI 1 G25	KDSW	M25	B	N	0	NI	1	G25	20
1075110000	KDSW M25 BN O NI 2 G25	KDSW	M25	B	N	0	NI	2	G25	20
1075120000	KDSW M32 BN O NI 1 G32	KDSW	M32	B	N	0	NI	1	G32	10
1075130000	KDSW M32 BN O NI 2 G32	KDSW	M32	B	N	0	NI	2	G32	10
1075140000	KDSW M40 BN O NI 1 G40	KDSW	M40	B	N	0	NI	1	G40	10
1075150000	KDSW M40 BN O NI 2 G40	KDSW	M40	B	N	0	NI	2	G40	10
1075160000	KDSW M50 BN O NI 1 G50S	KDSW	M50	B	N	0	NI	1	G50S	1
1075170000	KDSW M50 BN O NI 2 G50S	KDSW	M50	B	N	0	NI	2	G50S	1
1075180000	KDSW M50 BN O NI 1 G50	KDSW	M50	B	N	0	NI	1	G50	1
1075190000	KDSW M50 BN O NI 2 G50	KDSW	M50	B	N	0	NI	2	G50	1
1075210000	KDSW M63 BN O NI 1 G63S	KDSW	M63	B	N	0	NI	1	G63S	1
1075220000	KDSW M63 BN O NI 2 G63S	KDSW	M63	B	N	0	NI	2	G63S	1
1075230000	KDSW M63 BN O NI 1 G63	KDSW	M63	B	N	0	NI	1	G63	1
1075240000	KDSW M63 BN O NI 2 G63	KDSW	M63	B	N	0	NI	2	G63	1
1075250000	KDSW M75 BN O NI 1 G75S	KDSW	M75	B	N	0	NI	1	G75S	1
1075260000	KDSW M75 BN O NI 2 G75S	KDSW	M75	B	N	0	NI	2	G75S	1
1075270000	KDSW M75 BN O NI 1 G75	KDSW	M75	B	N	0	NI	1	G75	1
1075280000	KDSW M75 BN O NI 2 G75	KDSW	M75	B	N	0	NI	2	G75	1

Self-coloured brass gland with neoprene sealing

Order No.	Description	[Type]	[a]	[b]	[c]	[d]	[e]	[f]	[ggg]	Qty.
1074480000	KDSW M20 BN O SC 1 G16	KDSW	M20	B	N	0	SC	1	G16	20
1074490000	KDSW M20 BN O SC 2 G16	KDSW	M20	B	N	0	SC	2	G16	20
1074500000	KDSW M20 BN O SC 1 G20S	KDSW	M20	B	N	0	SC	1	G20S	20
1074510000	KDSW M20 BN O SC 2 G20S	KDSW	M20	B	N	0	SC	2	G20S	20
1074520000	KDSW M20 BN O SC 1 G20	KDSW	M20	B	N	0	SC	1	G20	20
1074530000	KDSW M20 BN O SC 2 G20	KDSW	M20	B	N	0	SC	2	G20	20
1074540000	KDSW M25 BN O SC 1 G25	KDSW	M25	B	N	0	SC	1	G25	20
1074550000	KDSW M25 BN O SC 2 G25	KDSW	M25	B	N	0	SC	2	G25	20
1074570000	KDSW M32 BN O SC 1 G32	KDSW	M32	B	N	0	SC	1	G32	10
1074580000	KDSW M32 BN O SC 2 G32	KDSW	M32	B	N	0	SC	2	G32	10
1074590000	KDSW M40 BN O SC 1 G40	KDSW	M40	B	N	0	SC	1	G40	10
1074610000	KDSW M40 BN O SC 2 G40	KDSW	M40	B	N	0	SC	2	G40	10
1074620000	KDSW M50 BN O SC 1 G50S	KDSW	M50	B	N	0	SC	1	G50S	1
1074630000	KDSW M50 BN O SC 2 G50S	KDSW	M50	B	N	0	SC	2	G50S	1
1074640000	KDSW M50 BN O SC 1 G50	KDSW	M50	B	N	0	SC	1	G50	1
1074650000	KDSW M50 BN O SC 2 G50	KDSW	M50	B	N	0	SC	2	G50	1
1074670000	KDSW M63 BN O SC 1 G63S	KDSW	M63	B	N	0	SC	1	G63S	1
1074710000	KDSW M63 BN O SC 2 G63S	KDSW	M63	B	N	0	SC	2	G63S	1
1074730000	KDSW M63 BN O SC 1 G63	KDSW	M63	B	N	0	SC	1	G63	1
1074750000	KDSW M63 BN O SC 2 G63	KDSW	M63	B	N	0	SC	2	G63	1
1074770000	KDSW M75 BN O SC 1 G75S	KDSW	M75	B	N	0	SC	1	G75S	1
1074790000	KDSW M75 BN O SC 2 G75S	KDSW	M75	B	N	0	SC	2	G75S	1
1074820000	KDSW M75 BN O SC 1 G75	KDSW	M75	B	N	0	SC	1	G75	1
1074840000	KDSW M75 BN O SC 2 G75	KDSW	M75	B	N	0	SC	2	G75	1

Nickel-plated brass gland with neoprene sealing and lead sheathed armour

Order No.	Description	[Type]	[a]	[b]	[c]	[d]	[e]	[f]	[ggg]	Qty.
1074660000	KDSW M20 BN L NI 1 G16	KDSW	M20	B	N	L	NI	1	G16	20
1074690000	KDSW M20 BN L NI 2 G16	KDSW	M20	B	N	L	NI	2	G16	20
1074720000	KDSW M20 BN L NI 1 G20S	KDSW	M20	B	N	L	NI	1	G20S	20
1074740000	KDSW M20 BN L NI 2 G20S	KDSW	M20	B	N	L	NI	2	G20S	20
1074760000	KDSW M20 BN L NI 1 G20	KDSW	M20	B	N	L	NI	1	G20	20
1074780000	KDSW M20 BN L NI 2 G20	KDSW	M20	B	N	L	NI	2	G20	20
1074810000	KDSW M25 BN L NI 1 G25	KDSW	M25	B	N	L	NI	1	G25	20
1074830000	KDSW M25 BN L NI 2 G25	KDSW	M25	B	N	L	NI	2	G25	20
1074850000	KDSW M32 BN L NI 1 G32	KDSW	M32	B	N	L	NI	1	G32	10
1074860000	KDSW M32 BN L NI 2 G32	KDSW	M32	B	N	L	NI	2	G32	10
1074870000	KDSW M40 BN L NI 1 G40	KDSW	M40	B	N	L	NI	1	G40	10
1074880000	KDSW M40 BN L NI 2 G40	KDSW	M40	B	N	L	NI	2	G40	10
1074890000	KDSW M50 BN L NI 1 G50S	KDSW	M50	B	N	L	NI	1	G50S	1
1074910000	KDSW M50 BN L NI 2 G50S	KDSW	M50	B	N	L	NI	2	G50S	1
1074920000	KDSW M50 BN L NI 1 G50	KDSW	M50	B	N	L	NI	1	G50	1
1074930000	KDSW M50 BN L NI 2 G50	KDSW	M50	B	N	L	NI	2	G50	1
1074940000	KDSW M63 BN L NI 1 G63S	KDSW	M63	B	N	L	NI	1	G63S	1
1074950000	KDSW M63 BN L NI 2 G63S	KDSW	M63	B	N	L	NI	2	G63S	1
1074960000	KDSW M63 BN L NI 1 G63	KDSW	M63	B	N	L	NI	1	G63	1
1074970000	KDSW M63 BN L NI 2 G63	KDSW	M63	B	N	L	NI	2	G63	1
1074980000	KDSW M75 BN L NI 1 G75S	KDSW	M75	B	N	L	NI	1	G75S	1
1074990000	KDSW M75 BN L NI 2 G75S	KDSW	M75	B	N	L	NI	2	G75S	1
1075010000	KDSW M75 BN L NI 1 G75	KDSW	M75	B	N	L	NI	1	G75	1
1075020000	KDSW M75 BN L NI 2 G75	KDSW	M75	B	N	L	NI	2	G75	1

Self-coloured brass gland with neoprene sealing and lead sheathed armour

Order No.	Description	[Type]	[a]	[b]	[c]	[d]	[e]	[f]	[ggg]	Qty.
1076250000	KDSW M20 BN L SC 1 G16	KDSW	M20	B	N	L	SC	1	G16	20
1076270000	KDSW M20 BN L SC 2 G16	KDSW	M20	B	N	L	SC	2	G16	20
1076280000	KDSW M20 BN L SC 1 G20S	KDSW	M20	B	N	L	SC	1	G20S	20
1076290000	KDSW M20 BN L SC 2 G20S	KDSW	M20	B	N	L	SC	2	G20S	20
1076300000	KDSW M20 BN L SC 1 G20	KDSW	M20	B	N	L	SC	1	G20	20
1076310000	KDSW M20 BN L SC 2 G20	KDSW	M20	B	N	L	SC	2	G20	20
1076320000	KDSW M25 BN L SC 1 G25	KDSW	M25	B	N	L	SC	1	G25	20
1076330000	KDSW M25 BN L SC 2 G25	KDSW	M25	B	N	L	SC	2	G25	20
1076340000	KDSW M32 BN L SC 1 G32	KDSW	M32	B	N	L	SC	1	G32	10
1076350000	KDSW M32 BN L SC 2 G32	KDSW	M32	B	N	L	SC	2	G32	10
1076360000	KDSW M40 BN L SC 1 G40	KDSW	M40	B	N	L	SC	1	G40	10
1076370000	KDSW M40 BN L SC 2 G40	KDSW	M40	B	N	L	SC	2	G40	10
1076380000	KDSW M50 BN L SC 1 G50S	KDSW	M50	B	N	L	SC	1	G50S	1
1076390000	KDSW M50 BN L SC 2 G50S	KDSW	M50	B	N	L	SC	2	G50S	1
1076400000	KDSW M50 BN L SC 1 G50	KDSW	M50	B	N	L	SC	1	G50	1
1076410000	KDSW M50 BN L SC 2 G50	KDSW	M50	B	N	L	SC	2	G50	1
1076420000	KDSW M63 BN L SC 1 G63S	KDSW	M63	B	N	L	SC	1	G63S	1
1076430000	KDSW M63 BN L SC 2 G63S	KDSW	M63	B	N	L	SC	2	G63S	1
1076440000	KDSW M63 BN L SC 1 G63	KDSW	M63	B	N	L	SC	1	G63	1
1076450000	KDSW M63 BN L SC 2 G63	KDSW	M63	B	N	L	SC	2	G63	1
1076460000	KDSW M75 BN L SC 1 G75S	KDSW	M75	B	N	L	SC	1	G75S	1
1076470000	KDSW M75 BN L SC 2 G75S	KDSW	M75	B	N	L	SC	2	G75S	1
1076480000	KDSW M75 BN L SC 1 G75	KDSW	M75	B	N	L	SC	1	G75	1
1076490000	KDSW M75 BN L SC 2 G75	KDSW	M75	B	N	L	SC	2	G75	1

Nickel-plated brass gland with silicone sealing

Order No.	Description	[Type]	[a]	[b]	[c]	[d]	[e]	[f]	[ggg]	Qty.
1136410000	KDSW M20 BS 0 NI 1 G16	KDSW	M20	B	S	0	NI	1	G16	20
1136420000	KDSW M20 BS 0 NI 2 G16	KDSW	M20	B	S	0	NI	2	G16	20
1136430000	KDSW M20 BS 0 NI 1 G20S	KDSW	M20	B	S	0	NI	1	G20S	20
1136440000	KDSW M20 BS 0 NI 2 G20S	KDSW	M20	B	S	0	NI	2	G20S	20
1136450000	KDSW M20 BS 0 NI 1 G20	KDSW	M20	B	S	0	NI	1	G20	20
1136460000	KDSW M20 BS 0 NI 2 G20	KDSW	M20	B	S	0	NI	2	G20	20
1136470000	KDSW M25 BS 0 NI 1 G25	KDSW	M25	B	S	0	NI	1	G25	20
1136480000	KDSW M25 BS 0 NI 2 G25	KDSW	M25	B	S	0	NI	2	G25	20
1136490000	KDSW M32 BS 0 NI 1 G32	KDSW	M32	B	S	0	NI	1	G32	10
1136510000	KDSW M32 BS 0 NI 2 G32	KDSW	M32	B	S	0	NI	2	G32	10
1136520000	KDSW M40 BS 0 NI 1 G40	KDSW	M40	B	S	0	NI	1	G40	10
1136530000	KDSW M40 BS 0 NI 2 G40	KDSW	M40	B	S	0	NI	2	G40	10
1136540000	KDSW M50 BS 0 NI 1 G50S	KDSW	M50	B	S	0	NI	1	G50S	1
1136550000	KDSW M50 BS 0 NI 2 G50S	KDSW	M50	B	S	0	NI	2	G50S	1
1136560000	KDSW M50 BS 0 NI 1 G50	KDSW	M50	B	S	0	NI	1	G50	1
1136570000	KDSW M50 BS 0 NI 2 G50	KDSW	M50	B	S	0	NI	2	G50	1
1136580000	KDSW M63 BS 0 NI 1 G63S	KDSW	M63	B	S	0	NI	1	G63S	1
1136590000	KDSW M63 BS 0 NI 2 G63S	KDSW	M63	B	S	0	NI	2	G63S	1
1136600000	KDSW M63 BS 0 NI 1 G63	KDSW	M63	B	S	0	NI	1	G63	1
1136610000	KDSW M63 BS 0 NI 2 G63	KDSW	M63	B	S	0	NI	2	G63	1
1136620000	KDSW M75 BS 0 NI 1 G75S	KDSW	M75	B	S	0	NI	1	G75S	1
1136630000	KDSW M75 BS 0 NI 2 G75S	KDSW	M75	B	S	0	NI	2	G75S	1
1136640000	KDSW M75 BS 0 NI 1 G75	KDSW	M75	B	S	0	NI	1	G75	1
1136650000	KDSW M75 BS 0 NI 2 G75	KDSW	M75	B	S	0	NI	2	G75	1

Self-coloured brass gland with silicone sealing

Order No.	Description	[Type]	[a]	[b]	[c]	[d]	[e]	[f]	[ggg]	Qty.
1136160000	KDSW M20 BS 0 SC 1 G16	KDSW	M20	B	S	0	SC	1	G16	20
1136170000	KDSW M20 BS 0 SC 2 G16	KDSW	M20	B	S	0	SC	2	G16	20
1136180000	KDSW M20 BS 0 SC 1 G20S	KDSW	M20	B	S	0	SC	1	G20S	20
1136190000	KDSW M20 BS 0 SC 2 G20S	KDSW	M20	B	S	0	SC	2	G20S	20
1136200000	KDSW M20 BS 0 SC 1 G20	KDSW	M20	B	S	0	SC	1	G20	20
1136210000	KDSW M20 BS 0 SC 2 G20	KDSW	M20	B	S	0	SC	2	G20	20
1136220000	KDSW M25 BS 0 SC 1 G25	KDSW	M25	B	S	0	SC	1	G25	20
1136230000	KDSW M25 BS 0 SC 2 G25	KDSW	M25	B	S	0	SC	2	G25	20
1136240000	KDSW M32 BS 0 SC 1 G32	KDSW	M32	B	S	0	SC	1	G32	10
1136250000	KDSW M32 BS 0 SC 2 G32	KDSW	M32	B	S	0	SC	2	G32	10
1136260000	KDSW M40 BS 0 SC 1 G40	KDSW	M40	B	S	0	SC	1	G40	10
1136270000	KDSW M40 BS 0 SC 2 G40	KDSW	M40	B	S	0	SC	2	G40	10
1136280000	KDSW M50 BS 0 SC 1 G50S	KDSW	M50	B	S	0	SC	1	G50S	1
1136290000	KDSW M50 BS 0 SC 2 G50S	KDSW	M50	B	S	0	SC	2	G50S	1
1136310000	KDSW M50 BS 0 SC 1 G50	KDSW	M50	B	S	0	SC	1	G50	1
1136320000	KDSW M50 BS 0 SC 2 G50	KDSW	M50	B	S	0	SC	2	G50	1
1136330000	KDSW M63 BS 0 SC 1 G63S	KDSW	M63	B	S	0	SC	1	G63S	1
1136340000	KDSW M63 BS 0 SC 2 G63S	KDSW	M63	B	S	0	SC	2	G63S	1
1136350000	KDSW M63 BS 0 SC 1 G63	KDSW	M63	B	S	0	SC	1	G63	1
1136360000	KDSW M63 BS 0 SC 2 G63	KDSW	M63	B	S	0	SC	2	G63	1
1136370000	KDSW M75 BS 0 SC 1 G75S	KDSW	M75	B	S	0	SC	1	G75S	1
1136380000	KDSW M75 BS 0 SC 2 G75S	KDSW	M75	B	S	0	SC	2	G75S	1
1136390000	KDSW M75 BS 0 SC 1 G75	KDSW	M75	B	S	0	SC	1	G75	1
1136400000	KDSW M75 BS 0 SC 2 G75	KDSW	M75	B	S	0	SC	2	G75	1

Klippon® KDSX Cable Glands



The KDSX glands provide an armour clamp for braided cables. An electrical bond between the cable armour and the gland is ensured. In addition, the gland is fitted with two separate sealings to seal the outer and inner cable insulation. The gland maintains a temperature range from -60 °C to +180 °C. With both sealing materials an IP rating of IP 66 and IP 68 to 25 metres (30 min at 2,5 bar) is maintained. The KDSX gland is approved for Flameproof Ex d and Increased Safety Ex e applications.

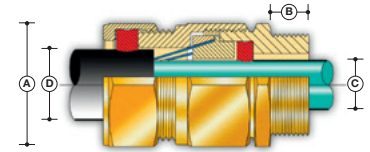


Technical Data

Material	Brass CuZnPb3 (CZ121)				
Sealing ring	Silikon				
Class of protection	IP 66 and IP 68 (30 minutes at 25 metres water depth)				
Thread	ISO Metric				
Plating	Nickel-plated (NI); Self-coloured (SC)				
Temperature range	-60 °C bis +180 °C				
Design Standard	EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-31 IEC 60079-0, IEC 60079-1, IEC 60079-7				
Certification	ATEX: II 2 G, Ex d IIC Gb / Ex e IIC Gb / Ex 1D / Ex ta IIIC Da IECEX: Ex d IIC Gb / Ex e IIC Gb / Ex ta IIIC Da				
Certificates	SIRA 05ATEX1286X IECEX SIR 05.0067X				
Application: Ex d Equipment	The KDSX glands will only maintain Flameproof Ex d integrity when used with a cable that is substantially round and compact with extruded bedding. The cable shall be deemed to be effectively filled. The cable should fulfill the IEC 60079-14 chapter 10.4.2 standard.				
Ex d Applications	Gas Group IIC, IIB, IIA IIB, IIA IIB, IIA	Internal Ignition Source NO YES YES	Enclosure Volume Any Any 2 litres or less	Zone Zone 1 or 2 Zone 2 Zone 1	Use KDSX YES YES YES
Ex e Applications	Gas Group II	Zone Zone 1 and 2			
Other Applications	Ignitable Dust, Zone 21 and 22				

Structure of the part description

Order key	[Type]	[a]	[b]	[c]	[d]	[e]	[f]	[ggg]
Example article description	KDSX	M20	B	S	0	SC	1	G16
Meaning	[Type] = Gland type (KDSX) [a] = Entry thread (M20-M75) [b] = Material (B = brass) [c] = Seal material (S = Silicone) [d] = Continuity for lead sheath (L = yes, 0 = no) [e] = Plating (SC = self-coloured, NI = Nickel) [f] = Cable outer sheath (1 = Reduced, 2 = Standard) [ggg] = Gland size (G16-G75)							
Note	Refer to page 36 Selection Guide Klippon® Cable Glands to determine the suitable order number							



Dimensions

Gland Size [ggg]	Entry thread [a]	Entry thread Length [B]	Max Outer Diameter [A]	Max Length	Gland Seal Range						Armour Acceptance Range	Shroud Size
					Cable Inner Sheath [C]		Cable Outer Sheath [D]					
					Min	Max	Standard [f] = 2		Reduced [f] = 1			
						Min	Max	Min	Max			
G16	M20	16	26.5	58.0	4.0	8.4	8.4	13.5	4.9	10.0	0.15 - 0.35	L24
G20S	M20	16	26.5	58.0	8.0	11.7	11.5	16.0	9.4	12.5	0.15 - 0.35	L24
G20	M20	16	33.0	58.0	6.7	14.0	15.5	21.1	12.0	17.6	0.15 - 0.50	L30
G25	M25	16	41.4	58.0	13.0	20.0	20.3	27.4	16.8	23.9	0.15 - 0.50	L38
G32	M32	16	50.6	65.0	19.0	26.3	26.7	34.0	23.2	30.5	0.15 - 0.55	L46
G40	M40	16	60.5	72.0	25.0	32.2	33.0	40.6	28.6	36.2	0.20 - 0.60	L55
G50S	M50	16	71.5	73.0	31.5	38.2	39.4	46.7	34.8	42.4	0.20 - 0.60	L65
G50	M50	16	71.5	73.0	36.5	44.1	45.7	53.2	41.1	48.5	0.30 - 0.80	L65
G63S	M63	19	88.0	76.0	42.5	50.1	52.1	59.5	47.5	54.8	0.30 - 0.80	L80
G63	M63	19	88.0	76.0	49.5	56.0	58.4	65.8	53.8	61.2	0.30 - 0.80	L80
G75S	M75	19	99.0	82.0	54.5	62.0	64.8	72.2	60.2	68.0	0.30 - 1.00	L90
G75	M75	19	99.0	82.0	60.5	68.0	71.1	78.0	66.5	73.4	0.30 - 1.00	L90

Dimensions in mm

Important Notes

- The gland size does not necessarily equate to the entry thread size.
- In some cases several gland sizes can be chosen due to overlapping inner as well as outer cable diameters. Due to the wide range of armoured cables available, it is necessary to select the correct clamping range. This is achieved by taking the inner and outer clamping range values to determine the best fit (as close as possible to the Min/Max values average).
- All cable glands have a 1.5 mm pitch.
- For Flameproof Ex d applications the female thread into which the gland is to be fitted must achieve an engagement of at least 5 full threads in compliance with clause 5.3 of EN/IEC 60079-1.
- Where KDSX glands are fitted into non-metallic Increased Safety Ex e enclosures they must be included within the earth circuit of the system.
- Fully assembly instructions are supplied with the glands. The instructions must be read prior to installation and adhered to in full.
- When the gland is used to terminate un-armoured cables, the gland is suitable only for fixed installation.
- KDSX gland size G20 with silicone seal, the silicone inner seal only seals to a minimum of 11 mm and NOT 6.7 mm.

Nickel-plated brass gland with silicone sealing

Order No.	Description	[Type]	[a]	[b]	[c]	[d]	[e]	[f]	[ggg]	Qty.
1135910000	KDSX M20 BS 0 NI 1 G16	KDSX	M20	B	S	0	NI	1	G16	20
1135920000	KDSX M20 BS 0 NI 2 G16	KDSX	M20	B	S	0	NI	2	G16	20
1135930000	KDSX M20 BS 0 NI 1 G20S	KDSX	M20	B	S	0	NI	1	G20S	20
1135940000	KDSX M20 BS 0 NI 2 G20S	KDSX	M20	B	S	0	NI	2	G20S	20
1135950000	KDSX M20 BS 0 NI 1 G20	KDSX	M20	B	S	0	NI	1	G20	20
1135960000	KDSX M20 BS 0 NI 2 G20	KDSX	M20	B	S	0	NI	2	G20	20
1135970000	KDSX M25 BS 0 NI 1 G25	KDSX	M25	B	S	0	NI	1	G25	20
1135980000	KDSX M25 BS 0 NI 2 G25	KDSX	M25	B	S	0	NI	2	G25	20
1135990000	KDSX M32 BS 0 NI 1 G32	KDSX	M32	B	S	0	NI	1	G32	10
1136000000	KDSX M32 BS 0 NI 2 G32	KDSX	M32	B	S	0	NI	2	G32	10
1136010000	KDSX M40 BS 0 NI 1 G40	KDSX	M40	B	S	0	NI	1	G40	10
1136020000	KDSX M40 BS 0 NI 2 G40	KDSX	M40	B	S	0	NI	2	G40	10
1136030000	KDSX M50 BS 0 NI 1 G50S	KDSX	M50	B	S	0	NI	1	G50S	1
1136040000	KDSX M50 BS 0 NI 2 G50S	KDSX	M50	B	S	0	NI	2	G50S	1
1136050000	KDSX M50 BS 0 NI 1 G50	KDSX	M50	B	S	0	NI	1	G50	1
1136060000	KDSX M50 BS 0 NI 2 G50	KDSX	M50	B	S	0	NI	2	G50	1
1136070000	KDSX M63 BS 0 NI 1 G63S	KDSX	M63	B	S	0	NI	1	G63S	1
1136080000	KDSX M63 BS 0 NI 2 G63S	KDSX	M63	B	S	0	NI	2	G63S	1
1136090000	KDSX M63 BS 0 NI 1 G63	KDSX	M63	B	S	0	NI	1	G63	1
1136110000	KDSX M63 BS 0 NI 2 G63	KDSX	M63	B	S	0	NI	2	G63	1
1136120000	KDSX M75 BS 0 NI 1 G75S	KDSX	M75	B	S	0	NI	1	G75S	1
1136130000	KDSX M75 BS 0 NI 2 G75S	KDSX	M75	B	S	0	NI	2	G75S	1
1136140000	KDSX M75 BS 0 NI 1 G75	KDSX	M75	B	S	0	NI	1	G75	1
1136150000	KDSX M75 BS 0 NI 2 G75	KDSX	M75	B	S	0	NI	2	G75	1

Self-coloured brass gland with silicone sealing

Order No.	Description	[Type]	[a]	[b]	[c]	[d]	[e]	[f]	[ggg]	Qty.
1135650000	KDSX M20 BS 0 SC 1 G16	KDSX	M20	B	S	0	SC	1	G16	20
1135660000	KDSX M20 BS 0 SC 2 G16	KDSX	M20	B	S	0	SC	2	G16	20
1135670000	KDSX M20 BS 0 SC 1 G20S	KDSX	M20	B	S	0	SC	1	G20S	20
1135680000	KDSX M20 BS 0 SC 2 G20S	KDSX	M20	B	S	0	SC	2	G20S	20
1135690000	KDSX M20 BS 0 SC 1 G20	KDSX	M20	B	S	0	SC	1	G20	20
1135710000	KDSX M20 BS 0 SC 2 G20	KDSX	M20	B	S	0	SC	2	G20	20
1135720000	KDSX M25 BS 0 SC 1 G25	KDSX	M25	B	S	0	SC	1	G25	20
1135730000	KDSX M25 BS 0 SC 2 G25	KDSX	M25	B	S	0	SC	2	G25	20
1135740000	KDSX M32 BS 0 SC 1 G32	KDSX	M32	B	S	0	SC	1	G32	10
1135750000	KDSX M32 BS 0 SC 2 G32	KDSX	M32	B	S	0	SC	2	G32	10
1135760000	KDSX M40 BS 0 SC 1 G40	KDSX	M40	B	S	0	SC	1	G40	10
1135770000	KDSX M40 BS 0 SC 2 G40	KDSX	M40	B	S	0	SC	2	G40	10
1135780000	KDSX M50 BS 0 SC 1 G50S	KDSX	M50	B	S	0	SC	1	G50S	1
1135790000	KDSX M50 BS 0 SC 2 G50S	KDSX	M50	B	S	0	SC	2	G50S	1
1135800000	KDSX M50 BS 0 SC 1 G50	KDSX	M50	B	S	0	SC	1	G50	1
1135810000	KDSX M50 BS 0 SC 2 G50	KDSX	M50	B	S	0	SC	2	G50	1
1135820000	KDSX M63 BS 0 SC 1 G63S	KDSX	M63	B	S	0	SC	1	G63S	1
1135830000	KDSX M63 BS 0 SC 2 G63S	KDSX	M63	B	S	0	SC	2	G63S	1
1135840000	KDSX M63 BS 0 SC 1 G63	KDSX	M63	B	S	0	SC	1	G63	1
1135850000	KDSX M63 BS 0 SC 2 G63	KDSX	M63	B	S	0	SC	2	G63	1
1135860000	KDSX M75 BS 0 SC 1 G75S	KDSX	M75	B	S	0	SC	1	G75S	1
1135870000	KDSX M75 BS 0 SC 2 G75S	KDSX	M75	B	S	0	SC	2	G75S	1
1135880000	KDSX M75 BS 0 SC 1 G75	KDSX	M75	B	S	0	SC	1	G75	1
1135890000	KDSX M75 BS 0 SC 2 G75	KDSX	M75	B	S	0	SC	2	G75	1

Klippon® KSG Cable Glands



The KSG gland is designed to terminate un-armoured cables. When choosing the gland with a neoprene sealing a temperature range from -20 °C to +85 °C will be achieved, whereas the gland with silicone sealing ensures a temperature range from -60 °C to +180 °C. With both sealing materials an IP rating of IP66 and IP68 to 25 metres (30 min. at 2,5 bar) is maintained. The KSG type gland is approved for Flameproof Ex d and Increased Safety Ex e applications.

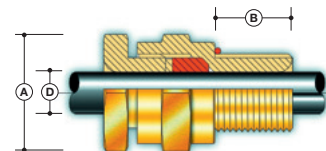


Technical Data

Material	Brass CuZnPb3 (CZ121)				
Sealing ring	Neoprene or Silicone				
Class of protection	IP66 and IP68 (30 minutes at 25 metres water depth)				
Thread	ISO Metric				
Plating	Nickel-plated (NI); Self-coloured (SC)				
Temperature range	With neoprene sealing: -20 °C to +85 °C, with silicone sealing: -60 °C to +180 °C				
Design Standard	EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-31 IEC 60079-0, IEC 60079-1, IEC 60079-7				
Certification	ATEX: II 2 GD / Ex d IIC Gb / Ex e IIC Gb / Ex ta IIIC Da IECEX: Ex d IIC Gb / Ex e IIC Gb / Ex ta IIIC DaI				
Certificates	SIRA 05ATEX1287X IECEX SIR 05.0067X				
Application: Ex d Equipment	The KSG glands will only maintain Flameproof Ex d integrity when used with a cable that is substantially round and compact with extruded bedding. The cable should fulfill the IEC 60079-14 chapter 10.4.2 standard.				
Ex d Applications	Gas Group IIC, IIB, IIA IIB, IIA IIB, IIA	Internal Ignition Source NO YES YES	Enclosure Volume 2 litres or less Any 2 litres or less	Zone Zone 1 or 2 Zone 2 Zone 1	Use KSG YES YES YES
Ex e Applications	Gas Group II	Zone Zone 1 and 2			
Other Applications	Ignitable Dust, Zone 21 and 22				

Structure of the part description

Order key	[Type]	[a]	[b]	[c]	[d]	[e]	[f]	[ggg]
Example article description	KSG	M20	B	S	0	SC	2	G16
Meaning	[Type] = Gland type (KSG) [a] = Entry thread (M20-M90) [b] = Material (B = brass) [c] = Seal material (S = Silicone, N = Neoprene) [d] = Continuity for lead sheath (L = yes, 0 = no) [e] = Plating (SC = self-coloured, NI = Nickel) [f] = Cable outer sheath (2 = Standard) [ggg] = Gland size (G16-G90)							
Note	Refer to page 36 Selection Guide Klippon® Cable Glands to determine the suitable order number							



Dimensions

Gland Size [ggg]	Entry thread [a]	Entry thread Length [B]	Max Outer Diameter [A]	Max Length	Gland Seal Range		Shroud Size
					Cable Outer Sheath [D]		
					Standard [f] = 2		
					Min	Max	
G16	M20	16	28.0	33.0	4.0	8.4	L24
G20S	M20	16	28.0	33.0	7.2	11.7	L24
G20	M20	16	33.0	33.0	9.6	14.0	L30
G25	M25	16	41.4	33.0	13.5	20.0	L38
G32	M32	16	50.6	33.0	19.5	26.3	L46
G40	M40	16	60.5	37.0	23.0	32.2	L55
G50S	M50	16	71.5	37.0	28.2	38.2	L65
G50	M50	16	71.5	37.0	33.2	44.1	L65
G63S	M63	19	88.0	37.0	39.3	50.1	L80
G63	M63	19	88.0	37.0	46.7	56.0	L80
G75S	M75	19	99.0	37.0	52.3	62.0	L90
G75	M75	19	99.0	37.0	58.1	69.0	L90
Dimensions in mm							

Important Notes

- The gland size does not necessarily equate to the entry thread size.
- In some cases several gland sizes can be chosen due to overlapping inner as well as outer cable diameters. Due to the wide range of armoured cables available, it is necessary to select the correct clamping range. This is achieved by taking the inner and outer clamping range values to determine the best fit (as close as possible to the Min/Max values average).
- All cable glands have a 1.5 mm pitch.
- For Flameproof Ex d applications the female thread into which the gland is to be fitted must achieve an engagement of at least 5 full threads in compliance with clause 5.3 of EN/IEC 60079-1.
- Where KSG glands are fitted into non-metallic Increased Safety Ex e enclosures they must be included within the earth circuit of the system.
- Fully assembly instructions are supplied with the glands. The instructions must be read prior to installation and adhered to in full.
- When the gland is used to terminate un-armoured cables, the gland is suitable only for fixed installation.

Nickel-plated brass gland with neoprene sealing

Order No.	Description	[Type]	[a]	[b]	[c]	[d]	[e]	[f]	[ggg]	Qty.
1911510000	KSG M20 BN 0 NI 2 G16	KSG	M20	B	N	0	NI	2	G16	20
1911540000	KSG M20 BN 0 NI 2 G20S	KSG	M20	B	N	0	NI	2	G20S	20
1911560000	KSG M20 BN 0 NI 2 G20	KSG	M20	B	N	0	NI	2	G20	20
1911570000	KSG M25 BN 0 NI 2 G25	KSG	M25	B	N	0	NI	2	G25	20
1911580000	KSG M32 BN 0 NI 2 G32	KSG	M32	B	N	0	NI	2	G32	10
1911590000	KSG M40 BN 0 NI 2 G40	KSG	M40	B	N	0	NI	2	G40	10
1911600000	KSG M50 BN 0 NI 2 G50S	KSG	M50	B	N	0	NI	2	G50S	1
1911610000	KSG M50 BN 0 NI 2 G50	KSG	M50	B	N	0	NI	2	G50	1
1911620000	KSG M63 BN 0 NI 2 G63S	KSG	M63	B	N	0	NI	2	G63S	1
1911630000	KSG M63 BN 0 NI 2 G63	KSG	M63	B	N	0	NI	2	G63	1
1075350000	KSG M75 BN 0 NI 2 G75S	KSG	M75	B	N	0	NI	2	G75S	1
1075360000	KSG M75 BN 0 NI 2 G75	KSG	M75	B	N	0	NI	2	G75	1

Self-coloured brass gland with neoprene sealing

Order No.	Description	[Type]	[a]	[b]	[c]	[d]	[e]	[f]	[ggg]	Qty.
1909380000	KSG M20 BN 0 SC 2 G16	KSG	M20	B	N	0	SC	2	G16	20
1909400000	KSG M20 BN 0 SC 2 G20S	KSG	M20	B	N	0	SC	2	G20S	20
1909410000	KSG M20 BN 0 SC 2 G20	KSG	M20	B	N	0	SC	2	G20	20
1909420000	KSG M25 BN 0 SC 2 G25	KSG	M25	B	N	0	SC	2	G25	20
1909430000	KSG M32 BN 0 SC 2 G32	KSG	M32	B	N	0	SC	2	G32	10
1909440000	KSG M40 BN 0 SC 2 G40	KSG	M40	B	N	0	SC	2	G40	10
1909450000	KSG M50 BN 0 SC 2 G50S	KSG	M50	B	N	0	SC	2	G50S	1
1909460000	KSG M50 BN 0 SC 2 G50	KSG	M50	B	N	0	SC	2	G50	1
1909470000	KSG M63 BN 0 SC 2 G63S	KSG	M63	B	N	0	SC	2	G63S	1
1909480000	KSG M63 BN 0 SC 2 G63	KSG	M63	B	N	0	SC	2	G63	1
1075330000	KSG M75 BN 0 SC 2 G75S	KSG	M75	B	N	0	SC	2	G75S	1
1075340000	KSG M75 BN 0 SC 2 G75	KSG	M75	B	N	0	SC	2	G75	1

Nickel-plated brass gland with silicone sealing

Order No.	Description	[Type]	[a]	[b]	[c]	[d]	[e]	[f]	[ggg]	Qty.
0930481222	KSG M20 BS 0 NI 2 G16	KSG	M20	B	S	0	NI	2	G16	20
0930491224	KSG M20 BS 0 NI 2 G20S	KSG	M20	B	S	0	NI	2	G20S	20
0930501222	KSG M20 BS 0 NI 2 G20	KSG	M20	B	S	0	NI	2	G20	20
0930511222	KSG M25 BS 0 NI 2 G25	KSG	M25	B	S	0	NI	2	G25	20
0930521222	KSG M32 BS 0 NI 2 G32	KSG	M32	B	S	0	NI	2	G32	10
0930531222	KSG M40 BS 0 NI 2 G40	KSG	M40	B	S	0	NI	2	G40	10
1136660000	KSG M50 BS 0 NI 2 G50S	KSG	M50	B	S	0	NI	2	G50S	1
1136670000	KSG M50 BS 0 NI 2 G50	KSG	M50	B	S	0	NI	2	G50	1
1136680000	KSG M63 BS 0 NI 2 G63S	KSG	M63	B	S	0	NI	2	G63S	1
1136690000	KSG M63 BS 0 NI 2 G63	KSG	M63	B	S	0	NI	2	G63	1
1136700000	KSG M75 BS 0 NI 2 G75S	KSG	M75	B	S	0	NI	2	G75S	1
1136710000	KSG M75 BS 0 NI 2 G75	KSG	M75	B	S	0	NI	2	G75	1

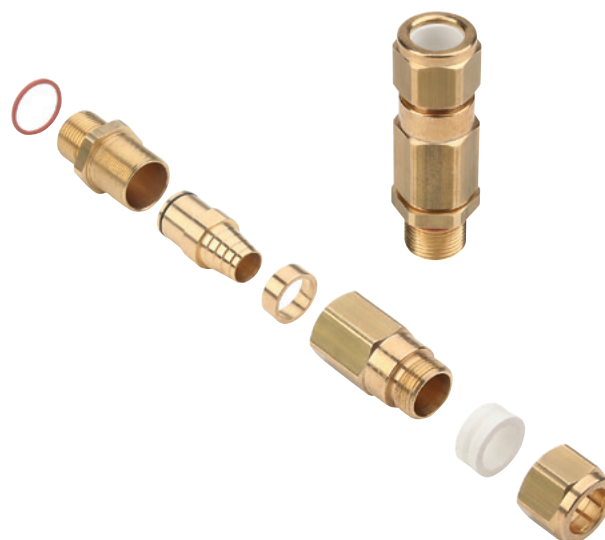
Self-coloured brass gland with silicone sealing

Order No.	Description	[Type]	[a]	[b]	[c]	[d]	[e]	[f]	[ggg]	Qty.
0930481212	KSG M20 BS 0 SC 2 G16	KSG	M20	B	S	0	SC	2	G16	20
1136720000	KSG M20 BS 0 SC 2 G20S	KSG	M20	B	S	0	SC	2	G20S	20
0930501212	KSG M20 BS 0 SC 2 G20	KSG	M20	B	S	0	SC	2	G20	20
0930511212	KSG M25 BS 0 SC 2 G25	KSG	M25	B	S	0	SC	2	G25	20
0930521212	KSG M32 BS 0 SC 2 G32	KSG	M32	B	S	0	SC	2	G32	10
0930531212	KSG M40 BS 0 SC 2 G40	KSG	M40	B	S	0	SC	2	G40	10
1136730000	KSG M50 BS 0 SC 2 G50S	KSG	M50	B	S	0	SC	2	G50S	1
0930551212	KSG M50 BS 0 SC 2 G50	KSG	M50	B	S	0	SC	2	G50	1
1136740000	KSG M63 BS 0 SC 2 G63S	KSG	M63	B	S	0	SC	2	G63S	1
1136750000	KSG M63 BS 0 SC 2 G63	KSG	M63	B	S	0	SC	2	G63	1
1136760000	KSG M75 BS 0 SC 2 G75S	KSG	M75	B	S	0	SC	2	G75S	1
1136770000	KSG M75 BS 0 SC 2 G75	KSG	M75	B	S	0	SC	2	G75	1
1192830000	KSG M85 BS 0 SC 2 G85	KSG	M85	B	S	0	SC	2	G85	1
1192870000	KSG M90 BS 0 SC 2 G90	KSG	M90	B	S	0	SC	2	G90	1

Klippon® KUB Barrier glands



The KUB gland provide an armour clamp for steel tape, steel wire and braided cables. An electrical bond between the cable armour and the gland is ensured. The gland can also be used to terminate unarmoured cables. Additionally, the gland provides a single pull resistant seal on the outer sheath of any cable. After clamping the cable armour onto the cone, the cable has to be filled with the provided compound to seal the free spaces between the single conductors. The gland maintains a temperature range from -60 °C to +85 °C. When filled, the gland fulfills an IP rating of IP 68 to 100 metres (30 Min. at 10 bar). The KUB gland is only suitable for Ex d applications. To know when to use a barrier gland and when to use a gland with sealing ring, please refer to the selection guide shown on page 36.

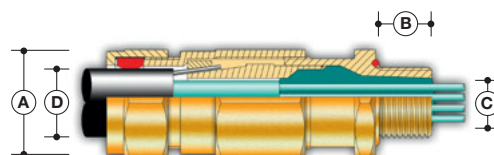


Technical Data

Material	Brass CuZnPb3 (CZ121)				
Sealing ring	Silikon				
Class of protection	IP 68 (30 minutes at 100 metres water depth)				
Thread	ISO Metric				
Plating	Nickel-plated (NI); Self-coloured (SC)				
Temperature range	With silicone sealing: -60 °C to +85 °C				
Design Standard	EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-31 IEC 60079-0, IEC 60079-1, IEC 60079-7				
Certification	ATEX: II 2 GD, Ex d IIC / Ex e IIC Gb / II 1D / Ex tb IIIC Db (Ta = -60 °C...135 °C) / Ex ta IIIC Da (Ta = -60 °C...135 °C) IECEX: Ex d IIC / Ex d I				
Certificates	SIRA 05ATEX1288X IECEX SIR 05.0067X				
Application: Ex d Equipment	The KUB glands will only maintain Flameproof Ex d integrity when used with a cable that is substantially round and compact with extruded bedding. The cable shall be deemed to be effectively filled. The cable should fulfill the IEC 60079-14 chapter 10.4.2 standard.				
Ex d Applications	Gas Group I, IIC, IIB, IIA	Internal Ignition Source YES	Enclosure Volume Any	Zone Zone 1 or 2	Use KUB YES
Other Applications	Mining Applications Group I, M2 Ignitable Dust, Zone 21 and 22				

Structure of the part description

Order key	[Type]	[a]	[b]	[c]	[d]	[e]	[f]	[ggg]
Example article description	KUB	M20	B	S	0	SC	1	G16
Meaning	[Type] = Gland type (KUB) [a] = Entry thread (M20-M75) [b] = Material (B = brass) [c] = Seal material (S = Silicone) [d] = Continuity for lead sheath (L = yes, 0 = no) [e] = Plating (SC = self-coloured, NI = Nickel) [f] = Cable outer sheath (1 = Reduced, 2 = Standard) [ggg] = Gland size (G16-G75)							
Note	Refer to page 36 Selection Guide Klippon® Cable Glands to determine the suitable order number							



Dimensions

Gland Size [ggg]	Entry thread [a]	Entry thread Length [B]	Max Outer Diameter [A]	Max Length	Gland Seal Range								Armour Acceptance Range	Shroud Size
					Cable Inner Sheath [C]			Cable Outer Sheath [D]						
					X	Y	Z	Standard [f] = 2		Reduced [f] = 1				
G16	M20	16	28.0	72.0	7	9.0	11.7	9.0	13.5	6.7	10.3	0.15 - 1.25	L24	
G20S	M20	16	28.0	72.0	8	10.4	11.7	11.5	16.0	9.4	12.5	0.15 - 1.25	L24	
G20	M20	16	33.0	73.0	14	12.5	14.0	15.5	21.1	12.0	17.6	0.15 - 1.25	EL30	
G25	M25	16	41.4	83.0	25	17.8	20.0	20.3	27.4	16.8	23.9	0.15 - 1.60	EL38	
G32	M32	16	50.6	103.0	50	23.5	26.3	26.7	34.0	23.2	30.5	0.15 - 2.00	EL46	
G40	M40	16	60.5	105.0	80	28.8	32.2	33.0	40.6	28.6	36.2	0.20 - 2.00	EL55	
G50S	M50	16	71.5	115.0	100	34.2	38.2	39.4	46.7	34.8	42.4	0.30 - 2.50	EL65	
G50	M50	16	71.5	115.0	100	39.4	44.1	45.7	53.2	41.1	48.5	0.30 - 2.50	EL65	
G63S	M63	19	88.0	115.0	120	44.8	50.1	52.1	59.5	47.5	54.8	0.30 - 2.50	EL80	
G63	M63	19	88.0	115.0	120	50.0	56.0	58.4	65.8	53.8	61.2	0.30 - 2.50	EL80	
G75S	M75	19	99.0	122.0	140	55.4	62.0	64.8	72.2	60.2	68.0	0.30 - 2.50	EL90	
G75	M75	19	99.0	122.0	140	60.8	68.0	71.1	78.0	66.5	73.4	0.30 - 2.50	EL90	

Dimensions in mm

Important Notes

- The gland size does not necessarily equate to the entry thread size.
- In some cases several gland sizes can be chosen due to overlapping inner as well as outer cable diameters. Due to the wide range of armoured cables available, it is necessary to select the correct clamping range. This is achieved by taking the inner and outer clamping range values to determine the best fit (as close as possible to the Min/Max values average).
- X = Maximum numbers of cores
- Y = Maximum over cores (The remaining space around the wires must be large enough for the sealing compound)
- Z = Maximum inner sheath
- All cable glands have a 1.5 mm pitch.
- For Flameproof Ex d applications the female thread into which the gland is to be fitted must achieve an engagement of at least 5 full threads in compliance with clause 5.3 of EN/IEC 60079-1.
- Where KUB glands are fitted into non-metallic Increased Safety Ex e enclosures they must be included within the earth circuit of the system.
- Fully assembly instructions are supplied with the glands. The instructions must be read prior to installation and adhered to in full.
- When the gland is used to terminate un-armoured cables, the gland is suitable only for fixed installation.

Nickel-plated brass gland with silicone sealing

Order No.	Description	[Type]	[a]	[b]	[c]	[d]	[e]	[f]	[ggg]	Qty.
1095100000	KUB M20 BS O NI 1 G16	KUB	M20	B	S	0	NI	1	G16	20
1095110000	KUB M20 BS O NI 2 G16	KUB	M20	B	S	0	NI	2	G16	20
1095120000	KUB M20 BS O NI 1 G20S	KUB	M20	B	S	0	NI	1	G20S	20
1095130000	KUB M20 BS O NI 2 G20S	KUB	M20	B	S	0	NI	2	G20S	20
1095140000	KUB M20 BS O NI 1 G20	KUB	M20	B	S	0	NI	1	G20	20
1095150000	KUB M20 BS O NI 2 G20	KUB	M20	B	S	0	NI	2	G20	20
1095160000	KUB M25 BS O NI 1 G25	KUB	M25	B	S	0	NI	1	G25	20
1095170000	KUB M25 BS O NI 2 G25	KUB	M25	B	S	0	NI	2	G25	20
1095180000	KUB M32 BS O NI 1 G32	KUB	M32	B	S	0	NI	1	G32	10
1095190000	KUB M32 BS O NI 2 G32	KUB	M32	B	S	0	NI	2	G32	10
1095200000	KUB M40 BS O NI 1 G40	KUB	M40	B	S	0	NI	1	G40	10
1095210000	KUB M40 BS O NI 2 G40	KUB	M40	B	S	0	NI	2	G40	10
1095220000	KUB M50 BS O NI 1 G50S	KUB	M50	B	S	0	NI	1	G50S	1
1095230000	KUB M50 BS O NI 2 G50S	KUB	M50	B	S	0	NI	2	G50S	1
1095240000	KUB M50 BS O NI 1 G50	KUB	M50	B	S	0	NI	1	G50	1
1095250000	KUB M50 BS O NI 2 G50	KUB	M50	B	S	0	NI	2	G50	1
1095260000	KUB M63 BS O NI 1 G63S	KUB	M63	B	S	0	NI	1	G63S	1
1095270000	KUB M63 BS O NI 2 G63S	KUB	M63	B	S	0	NI	2	G63S	1
1095280000	KUB M63 BS O NI 1 G63	KUB	M63	B	S	0	NI	1	G63	1
1095290000	KUB M63 BS O NI 2 G63	KUB	M63	B	S	0	NI	2	G63	1
1095300000	KUB M75 BS O NI 1 G75S	KUB	M75	B	S	0	NI	1	G75S	1
1095310000	KUB M75 BS O NI 2 G75S	KUB	M75	B	S	0	NI	2	G75S	1
1095320000	KUB M75 BS O NI 1 G75	KUB	M75	B	S	0	NI	1	G75	1
1095330000	KUB M75 BS O NI 2 G75	KUB	M75	B	S	0	NI	2	G75	1

Self-coloured brass gland with silicone sealing

Order No.	Description	[Type]	[a]	[b]	[c]	[d]	[e]	[f]	[ggg]	Qty.
1095340000	KUB M20 BS O SC 1 G16	KUB	M20	B	S	0	SC	1	G16	20
1095350000	KUB M20 BS O SC 2 G16	KUB	M20	B	S	0	SC	2	G16	20
1095360000	KUB M20 BS O SC 1 G20S	KUB	M20	B	S	0	SC	1	G20S	20
1095370000	KUB M20 BS O SC 2 G20S	KUB	M20	B	S	0	SC	2	G20S	20
1095380000	KUB M20 BS O SC 1 G20	KUB	M20	B	S	0	SC	1	G20	20
1095390000	KUB M20 BS O SC 2 G20	KUB	M20	B	S	0	SC	2	G20	20
1095400000	KUB M25 BS O SC 1 G25	KUB	M25	B	S	0	SC	1	G25	20
1095410000	KUB M25 BS O SC 2 G25	KUB	M25	B	S	0	SC	2	G25	20
1095420000	KUB M32 BS O SC 1 G32	KUB	M32	B	S	0	SC	1	G32	10
1095430000	KUB M32 BS O SC 2 G32	KUB	M32	B	S	0	SC	2	G32	10
1095440000	KUB M40 BS O SC 1 G40	KUB	M40	B	S	0	SC	1	G40	10
1095450000	KUB M40 BS O SC 2 G40	KUB	M40	B	S	0	SC	2	G40	10
1095460000	KUB M50 BS O SC 1 G50S	KUB	M50	B	S	0	SC	1	G50S	1
1095470000	KUB M50 BS O SC 2 G50S	KUB	M50	B	S	0	SC	2	G50S	1
1095480000	KUB M50 BS O SC 1 G50	KUB	M50	B	S	0	SC	1	G50	1
1095490000	KUB M50 BS O SC 2 G50	KUB	M50	B	S	0	SC	2	G50	1
1095500000	KUB M63 BS O SC 1 G63S	KUB	M63	B	S	0	SC	1	G63S	1
1095510000	KUB M63 BS O SC 2 G63S	KUB	M63	B	S	0	SC	2	G63S	1
1095520000	KUB M63 BS O SC 1 G63	KUB	M63	B	S	0	SC	1	G63	1
1095530000	KUB M63 BS O SC 2 G63	KUB	M63	B	S	0	SC	2	G63	1
1095540000	KUB M75 BS O SC 1 G75S	KUB	M75	B	S	0	SC	1	G75S	1
1095550000	KUB M75 BS O SC 2 G75S	KUB	M75	B	S	0	SC	2	G75S	1
1095560000	KUB M75 BS O SC 1 G75	KUB	M75	B	S	0	SC	1	G75	1
1095570000	KUB M75 BS O SC 2 G75	KUB	M75	B	S	0	SC	2	G75	1

Klippon® KSPMH Stopping Plugs



The KSPMH is a dome head stopping plug with an accessible hexagon recess. It is used for plugging threaded holes before the cable glands are installed. The KSPMH can be used within temperature ranges from -60°C to +200°C at an IP rating of IP 66 and IP 68. (100 m for 7 days). It is available in brass and stainless steel and is approved for Flameproof Ex d and Increased Safety Ex e applications.

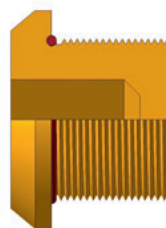


Technical Data

Material	Brass CuZnPb3 (CZ121), Stainless steel 1.4401 (316)
O-ring	Silicone
Class of protection	IP 66, IP 68
Impact Resistance	20 Nm
Thread	ISO Metric
Plating	Self-coloured (SC)
Temperature range	With Silicone O-ring: -60 °C to +200 °C
Design Standard	ATEX: EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-31 IECEX: IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-31
Certification	ATEX: I M2 / II 2 GD / Ex d I/IIC Mb Gb / Ex e I/IIC Mb Gb / Ex tb IIIC Db/II 3 GD Ex nR IIC Gc IECEX: Ex d I/IIC / Ex e I/IIC / Ex tb IIIC / Ex nR IIC
Certificates	SIRA 09ATEX1320X & SIRA 09ATEX4323X IECEX SIR 09.0131X

Structure of the part description

KSPM	M16	B	SC
[Type]	[a]	[b]	[e]
Meaning	[a] = Entry thread (M16-M75) [b] = Material (B = brass, S = stainless steel) [e] = Plating (SC = self coloured (natur))		


Dimensions

Thread	Hexagon socket	Entry thread Length	Max Length
M16	8.0 mm	16.0 mm	21.5 mm
M20	10.0 mm	16.0 mm	21.5 mm
M25	12.0 mm	16.0 mm	21.5 mm
M32	12.0 mm	16.0 mm	21.5 mm
M40	14.0 mm	16.0 mm	21.5 mm
M50	17.0 mm	16.0 mm	21.5 mm
M63	17.0 mm	16.0 mm	21.5 mm
M75	19.0 mm	16.0 mm	21.5 mm

Important Notes

- All metric sealing plugs have a thread pitch of 1.5 mm.
- In Ex nR applications, the KSPMH must be fitted with a further seal.
- To obtain the specified IP rating, the through hole must comply with the regulations of EN 50262 Table 1 and it should be possible to secure the sealing plug in a suitable manner.
- Operating instructions are enclosed with each sealing plug; these must be read prior to installation. The sealing plugs must be installed according to the specifications in the operating instructions.
- On installation of the KSPMH, the minimum number of engaged thread turns in line with the standard EN/IEC 60079-1, Section 5.3, must be observed.
- With NEC / CEC applications, it must be ensured that the inner thread of the connection device into which the sealing plugs are screwed reveals at least 8 fully engaged thread turns.
- If KSPMH sealing plugs are inserted into non-metallic Ex e connection devices, they must be connected to the system's earth circuit.

Self-coloured brass plug

Order No.	Description	[Type]	[a]	[b]	[c]	[d]	[e]	[f]	[ggg]	Qty.
1477740000	KSPMH M16 BSC	KSPMH	M16	B			SC			20
1477750000	KSPMH M20 BSC	KSPMH	M20	B			SC			20
1477770000	KSPMH M25 BSC	KSPMH	M25	B			SC			20
1477780000	KSPMH M32 BSC	KSPMH	M32	B			SC			10
1477790000	KSPMH M40 BSC	KSPMH	M40	B			SC			10
1477800000	KSPMH M50 BSC	KSPMH	M50	B			SC			1
1477810000	KSPMH M63 BSC	KSPMH	M63	B			SC			1
1477830000	KSPMH M75 BSC	KSPMH	M75	B			SC			1

Self-coloured stainless steel 1.4401 (316) plug

Order No.	Description	[Type]	[a]	[b]	[c]	[d]	[e]	[f]	[ggg]	Qty.
1477820000	KSPMH M16 SSC	KSPMH	M16	S			SC			20
1477840000	KSPMH M20 SSC	KSPMH	M20	S			SC			20
1477870000	KSPMH M25 SSC	KSPMH	M25	S			SC			20
1477890000	KSPMH M32 SSC	KSPMH	M32	S			SC			10
1477910000	KSPMH M40 SSC	KSPMH	M40	S			SC			10
1477930000	KSPMH M50 SSC	KSPMH	M50	S			SC			1
1477950000	KSPMH M63 SSC	KSPMH	M63	S			SC			1
1477980000	KSPMH M75 SSC	KSPMH	M75	S			SC			1

Klippon® KSPA Stopping Plugs



The KSPA is a stopping plug with an accessible hexagon recess. It is used for plugging threaded holes before the cable glands are installed. The KSPA can be used within temperature ranges from -100 °C to +400 °C at an IP rating of IP 66. The KSPA is approved for the flameproof Enclosure Ex d and Ex e increased safety applications.

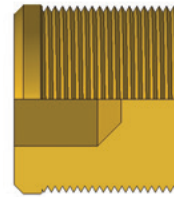


Technical Data

Material	Brass CuZnPb3 (CZ121)
Class of protection	IP 66
Impact Resistance	20 Nm
Thread	ISO Metric
Plating	Nickel-plated (NI);
Temperature range	-100 °C to +400 °C
Design Standard	EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-31 IEC 60079-0, IEC 60079-1, IEC 61241-31 & 60529
Certification	ATEX: I M2 / II 2 GD Ex d I/IIC Mb Gb / Ex e I&IIC Mb Gb / Ex tb IIIC Db IP 6X IECEX: Ex d I/IIC Mb Gb / Ex e I/IIC Mb Gb / Ex tb IIIC Db IP 6X
Certificates	SIRA 09ATEX1320X IECEX SIR 09.0131X

Structure of the part description

KSPA	M16	B	SC
[Type]	[a]	[b]	[e]
Meaning	[a] = Entry thread (M16-M75)	[b] = Material (B = brass)	[e] = Plating (NI = Nickel)



Dimensions

Thread	Hexagon socket	Länge
M16	8.0 mm	17.0 mm
M20	10.0 mm	17.0 mm
M25	12.0 mm	17.0 mm
M32	12.0 mm	17.0 mm
M40	14.0 mm	17.0 mm
M50	17.0 mm	17.0 mm
M63	17.0 mm	17.0 mm
M75	19.0 mm	17.0 mm

Important Notes

- All stopping plugs have a 1.5 mm pitch.
- For KSPA installation the minimum amount of threads engaged according to clause 5.3 of EN/IEC 60079-1 has to be considered.
- For NEC / CEC applications an engagement of at least 8 full threads must be achieved.
- Fully assembly instructions are supplied with the plugs. The instructions must be read prior to installation and adhered to in full.
- Where KSPA plugs are fitted into non-metallic Increased Safety Ex e enclosures they must be included within the earth circuit of the system

Nickel-plated brass plug

Order No.	Description	[Type]	[a]	[b]	[c]	[d]	[e]	[f]	[ggg]	Qty.
1477650000	KSPA M16 BNI	KSPA	M16	B			NI			20
1477670000	KSPA M20 BNI	KSPA	M20	B			NI			20
1477680000	KSPA M25 BNI	KSPA	M25	B			NI			20
1477690000	KSPA M32 BNI	KSPA	M32	B			NI			10
1477700000	KSPA M40 BNI	KSPA	M40	B			NI			10
1477710000	KSPA M50 BNI	KSPA	M50	B			NI			1
1477720000	KSPA M63 BNI	KSPA	M63	B			NI			1
1477730000	KSPA M75 BNI	KSPA	M75	B			NI			1

Overview Accessories

Lock nuts are hexagonal discs, the internal thread have. The Allen allows turning preferably with a Ring, plug-in or open-end wrench for secure of Cable Glands.

SKMU Locknuts – Brass – nickel-plated

The locknuts are available in nickel-plated brass from M16 to M75.



Technical Data

Material	Brass, nickel-plated
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Ordering data

Order No.	Description	[a]	Qty.
1736990000	SKMU M16 MS	M16	50
1737000000	SKMU M20 MS	M20	50
1737010000	SKMU M25 MS	M25	25
1737020000	SKMU M32 MS	M32	20
1737030000	SKMU M40 MS	M40	10
1737040000	SKMU M50 MS	M50	5
1737050000	SKMU M63 MS	M63	5
1737060000	SKMU M75 MS	M75	5

SKMU Locknuts – Brass – self-coloured

The locknuts are available in self-coloured brass from M16 to M90.



Technical Data

Material	Brass, self-coloured
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Ordering data

Order No.	Description	[a]	Qty.
0930640001	SKMU M16 MS SC	M16	50
0930640002	SKMU M20 MS SC	M20	50
0930640003	SKMU M25 MS SC	M25	25
0930640004	SKMU M32 MS SC	M32	20
0930640005	SKMU M40 MS SC	M40	10
0930640006	SKMU M50 MS SC	M50	5
0930640007	SKMU M63 MS SC	M63	5
0930640008	SKMU M75 MS SC	M75	5
0930640009	SKMU M80 MS SC	M80	5
0930640010	SKMU M85 MS SC	M85	5
0930640011	SKMU M90 MS SC	M90	5

SKMU Locknuts – Brass – EMC

Serrated locknuts are specially equipped with six blades that ensure the locknut makes contact with the enclosure upon tightening. The locknuts are available in nickel plated brass from M16 to M63.



Technical Data

Material	Brass, nickel-plated
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Ordering data

Order No.	Description	[a]	Qty.
1777620000	SKMU EMV M16	M16	50
1777630000	SKMU EMV M20	M20	50
1777640000	SKMU EMV M25	M25	20
1777650000	SKMU EMV M32	M32	20
1777660000	SKMU EMV M40	M40	10
1777670000	SKMU EMV M50	M50	10
1777680000	SKMU EMV M63	M63	10

IP washers are used for the extensive sealing of wall mounted cable glands to maintain the ingress protection of the gland. They are installed between the enclosure and the connection thread of a gland and are available in polyethylene, neoprene, fibreglass and nylon.

Klippon® KSWN IP washer – Nylon



Technical Data

Material	Nylon 6
Temperature range	-40 °C to +140 °C
Colour	Red

Ordering data

Order No.	Description	[a]	Qty.
1076630000	KSWN M16	M16	25
0930730002	KSWN M20	M20	25
1076640000	KSWN M25	M25	25
1076650000	KSWN M32	M32	25
0899780000	KSWN M40	M40	25
0900660000	KSWN M50	M50	25
1076660000	KSWN M63	M63	25
1076670000	KSWN M75	M75	25

Klippon® KSWF IP washer – Vulcanised fibre



Technical Data

Material	Vulcanised fibre
Temperature range	-40 °C to +95 °C
Colour	Red

Ordering data

Order No.	Description	[a]	Qty.
1076680000	KSWF M16	M16	25
0899750000	KSWF M20	M20	25
0899770000	KSWF M25	M25	25
1076690000	KSWF M32	M32	25
1076710000	KSWF M40	M40	25
1076720000	KSWF M50	M50	25
1076730000	KSWF M63	M63	25
1076740000	KSWF M75	M75	25
1192820000	KSWF M90	M90	25

GWDR IP washer - Polyethylene



Technical Data

Material	Polyethylene
Temperature range	-30 °C to +90 °C
Farbe	Transparent

Ordering data

Order No.	Description	[a]	Qty.
1777930000	GWDR M16-PO	M16	50
1777940000	GWDR M20-PO	M20	100
1777950000	GWDR M25-PO	M25	50
1777960000	GWDR M32-PO	M32	50
1777970000	GWDR M40-PO	M40	50
1777980000	GWDR M50-PO	M50	50
1777990000	GWDR M63-PO	M63	50

GWDR IP washer – Neoprene



Technical Data

Material	Neoprene
Temperature range	-40 °C to +100 °C
Colour	Black (RAL 9005)

Ordering data

Order No.	Description	[a]	Qty.
1736230000	GWDR M16-NP	M16	50
1736240000	GWDR M20-NP	M20	50
1736250000	GWDR M25-NP	M25	50
1736260000	GWDR M32-NP	M32	50
1736270000	GWDR M40-NP	M40	20
1736280000	GWDR M50-NP	M50	20
1736290000	GWDR M63-NP	M63	10

SZS serrated washers

The serrated washers can be used as fastening protection for cable glands in combination with locknuts. These are available in stainless steel 1.4401 (316) material.



Technical Data

Material	Stainless steel 1.4401 (316)
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Ordering data

Order No.	Description	[a]	Qty.
1736300000	SZS M16	M16	50
1736310000	SZS M20	M20	50
1736320000	SZS M25	M25	25
1736330000	SZS M32	M32	20
1736340000	SZS M40	M40	10
1736350000	SZS M50	M50	5
1736360000	SZS M63	M63	5
1116050000	SZS M75	M75	5

Klippon® KSP Shrouds

The KSP shrouds protect the gland against environmental conditions as for example dusts before and after the installation.

Klippon® KSP – PVC



Technical Data

Material	PVC
Colour	Black
Temperature range	-25 °C to +70 °C
Hardness [Shore A]	65

Ordering data

Order No.	Description	Qty.
1736570000	KSP L24	10
1736580000	KSP L30	10
1736590000	KSP L38	10
1736600000	KSP L46	10
1736610000	KSP L55	10
1736620000	KSP L65	10
1736630000	KSP L80	10
1736640000	KSP L90	10
1736670000	KSP EL30*	10
1736680000	KSP EL38*	10
1076750000	KSP EL46*	10
1076760000	KSP EL55*	10
1076770000	KSP EL65*	10
1076780000	KSP EL80*	10
1076790000	KSP EL90*	10

Note:

* These shrouds are especially designed for use with Klippon® KDSU and Klippon® KUB glands.

The suitable shroud size is shown on the dimension charts of each gland type.

Klippon® KSP – Silicone



Technical Data

Material	Silicone
Colour	Blue
Temperature range	-60 °C to +200 °C
Hardness [IRHD]	65

Ordering data

Order No.	Description	Qty.
0930700001	KSP L24 S	10
0930700002	KSP L30 S	10
0930700003	KSP L38 S	10
0930700004	KSP L46 S	10
0930700005	KSP L55 S	10
0930700006	KSP L65 S	10
0930700007	KSP L80 S	10
0930700008	KSP L90 S	10
1193940000	KSP L104 S	10
1192790000	KSP L114 S	10

Note:

The suitable shroud size is shown on the dimension charts of each gland type.

Earth tags

Earth tags provide the possibility to connect safely the cable gland with the earthing conductor.

Earth tags – Brass – nickel-plated

The earth tags are available in nickel plated brass and from M16 to M75.



Technical Data

Material	Brass, nickel-plated
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Ordering data

Order No.	Description	[a]	Qty.
1736480000	EA-RING MS/M 16	M16	20
1736490000	EA-RING MS/M 20	M20	20
1736500000	EA-RING MS/M 25	M25	20
1736510000	EA-RING MS/M 32	M32	20
1736520000	EA-RING MS/M 40	M40	10
1736530000	EA-RING MS/M 50	M50	10
1736540000	EA-RING MS/M 63	M63	10
1736550000	EA-RING MS/M 75	M75	10

Earth tags – Brass – self-coloured

The earth tags are available in self-coloured brass from M16 to M90.



Technical Data

Material	Brass, self-coloured
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Ordering data

Order No.	Description	[a]	Qty.
0930710001	EA-RING MS/M16 SC	M16	20
0930710002	EA-RING MS/M20 SC	M20	20
0930710003	EA-RING MS/M25 SC	M25	20
0930710004	EA-RING MS/M32 SC	M32	20
0930710005	EA-RING MS/M40 SC	M40	10
0930710006	EA-RING MS/M50 SC	M50	10
0930710007	EA-RING MS/M63 SC	M63	10
0930710008	EA-RING MS/M75 SC	M75	10
0930710009	EA-RING MS/M80 SC	M80	10
0930710010	EA-RING MS/M85 SC	M85	10
0930710011	EA-RING MS/M90 SC	M90	10

Threaddaten / Ingress Protection / Gland weight data

Threaddaten

Metric thread chart

Thread Typ	Thread	Size	Outer Diameter	Pitch	Thread Length	Min. Hexagon Across Corner
ISO METRIC (IEC 60423 1993)	M16	16 x 1.5	15.97	1.50	16.0	26.5
	M20	20 x 1.5	19.97	1.50	16.0	33.0
	M25	25 x 1.5	24.97	1.50	16.0	41.4
	M32	32 x 1.5	31.97	1.50	16.0	50.6
	M40	40 x 1.5	39.97	1.50	16.0	60.4
	M50	50 x 1.5	49.97	1.50	16.0	71.5
	M63	63 x 1.5	62.97	1.50	19.0	88.0
	M75	75 x 1.5	74.97	1.50	19.0	99.0
	M85	85 x 1.5	84.97	1.50	25.0	115.2
M90	90 x 1.5	89.97	1.50	25.0	125.7	

Dimensions in mm

Ingress Protection

It is essential when selecting cable glands to ensure that the products will maintain the IP rating of the equipment and integrity of the installation.

IP Codes according to IEC Standard 529

Weidmüller cable glands are certified and designed for the following IP ratings:	
IP 66	Dust tight. No ingress of dust possible. Protected against heavy seas or powerful jets of water. Prevents ingress sufficient to cause harm.
IP 67	Dust tight. No ingress of dust possible. Protected against harmful ingress of water when immersed between a depth of 150 mm to 1 m.
IP 68	Dust tight. No ingress of dust possible. protected against submersion. Suitable for continuous immersion in water at stated depth.
The minimum Ingress Protection requirement for hazardous area products are:	
IP 54	Dust protected. Prevents ingress of dust sufficient to cause harm. Protected from splashing water from any direction.

Gland weight data

Size	Thread	KDSU	KDSW	KDSX	KUB	KSG
G16	M16	164	144	144	165	84
G20S	M20	160	130	130	165	90
G20	M20	250	186	186	240	94
G25	M25	400	262	262	400	152
G32	M32	750	420	420	725	176
G40	M40	1095	672	672	1060	332
G50S	M50	1415	980	980	1435	570
G50	M50	1295	758	758	1340	458
G63S	M63	2345	1410	1410	2100	850
G63	M63	2005	1140	1140	2025	684
G75S	M75	1980	1745	1745	2330	954
G75	M75	2200	1375	1375	2240	764
G85	M85	3300	2655	2655	4065	1290
G90	M90	4314	3559	3559	5215	1510

Weights in grams

Selection Guide Klippon® Cable Glands

Purpose: Generation of the article description

By selecting the suitable cable gland different factors have to be considered, such as

- the environment of the application
- the conditions inside the enclosure
- the construction of the cable

By using the Selection Guide Klippon® Cable Glands the article description will be generated following the step by step process to create the 7 character order key. From this the order number can be identified.

The order key consists out of the following attributes:

Order key	[Type]	[a]	[b]	[c]	[d]	[e]	[f]	[ggg]
Example Article Description	KDSU	M20	B	S	0	SC	1	G16
Meaning	[Type] = Gland type (KDSU, KDSW, KDSX, KSG, KUB)	[a] = Entry thread (M20-M75)	[b] = Material (B=brass)	[c] = Seal material (S=Silicone, N=Neoprene)	[d] = Continuity for lead sheath (L=yes, O=no)	[e] = Plating (SC=self-coloured, NI=nickel-plated)	[f] = Cable outer sheath (1 = Reduced, 2 = Standard)	[ggg] = Gland size (G16-G75)

Application example

Within an Ex d application on an Off-Shore platform a suitable cable gland for the termination into an enclosure is required. Following details about the application are given:

- The enclosure will be used for the control of a motor circuit breaker
- The enclosure has a volume of 1.3 dm³ and is installed outdoor
- The application is in the field, a place in which an explosive atmosphere is likely to occur in normal operation, occasionally (Zone 1)
- The surrounding atmosphere of the enclosure consists Ethylene (gas group IIB)
- The enclosure operates in a temperature range of -25 °C to +45 °C
- The armour of the cable is unknown, no lead sheathed cable
- The cable outer sheath diameter is 10 mm
- The cable inner sheath diameter is 8 mm

Based on the information in the above shown example case the article description will be determined on the following pages.

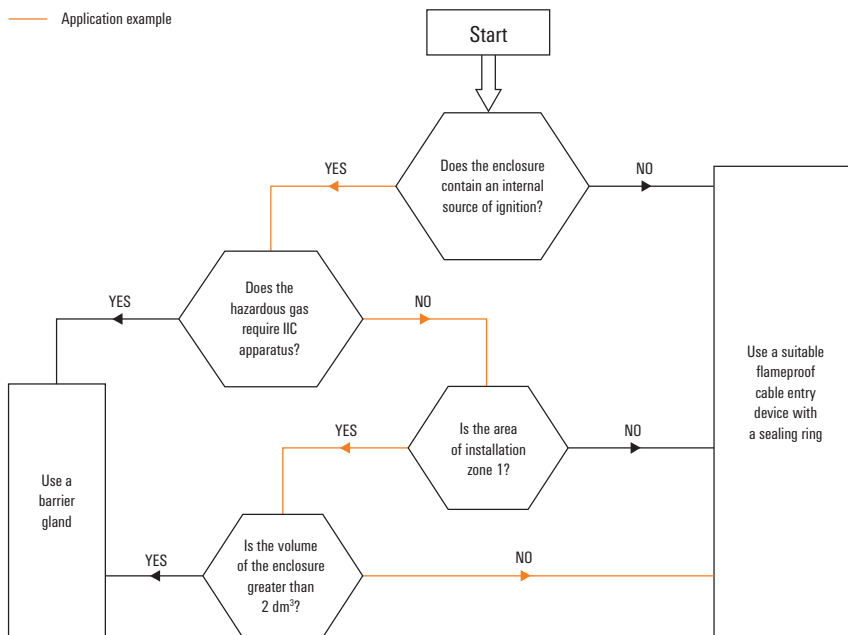
1. Selection of the cable gland type [type] and continuity for lead sheath [d]

Order key	[Type]	[a]	[b]	[c]	[d]	[e]	[f]	[ggg]
Example Article Description								

1a) Selection of the cable gland type in regard to the ignition protection type

[Type]	Ignition Protection Type
KDSU	Ex d / Ex e
KDSW	Ex d / Ex e
KDSX	Ex d / Ex e
KSG	Ex d / Ex e
KUB	Ex d

Because it is an Ex d application all cable gland types (marked in blue) can come into consideration
 For Ex d applications the following questionnaire according to the IEC 60079-14 standard has to be passed to find out if a barrier gland ([Type]=KUB) or if a cable gland with a sealing ring ([Type]=KDSU,KDSW,KDSX) has to be used.



By passing this questionnaire with the given information of the example case the red marked way has to be followed and the result is that a cable gland with sealing ring has to be used. Consequently the blue marked cable gland types below can come into consideration.

Gland type	Type of sealing
KDSU	Sealing ring
KDSW	Sealing ring
KDSX	Sealing ring
KSG	Sealing ring
KUB	Compound

1b) Selection of the cable gland type in regard to the continuity for lead sheath

[Type]	[d]	Continuity for lead sheath
KDSU	0	No
KDSW	L / 0	Yes
KDSX	0	No
KSG	0	No
KUB	0	No

In the example case a cable without lead sheath is to be terminated, therefore the option to clamp a lead sheathed cable is not needed. Consequently is

[d] = 0

All four gland types marked in blue can be used.

1c) Selection of the cable gland type in regard to the type of armour

[Type]	Armour
KDSU	Universal
KDSW	Steel wire, steel tape
KDSX	Braided
KSG	No armour
KUB	Universal

Because the type of armour of the cable is unknown, the cable gland type KDSU has to be selected. Consequently is

[Type] = KDSU

The generated information has to be filled into the order key below:

Order key	[Type]	[a]	[b]	[c]	[d]	[e]	[f]	[ggg]
Example Article Description	KDSU				0			

2. Selection of the material [b], the sealing material [c] and the plating [e] of the cable gland

Order key	[Type]	[a]	[b]	[c]	[d]	[e]	[f]	[ggg]
Example Article Description	KDSU				0			

2a) Selection of the material [b]

All cable gland types are made from brass "b". Other materials can also be provided upon request. Consequently is

[b] = B

2b) Selection of the sealing material [c] based on the required temperature range

The cable glands can be ordered with either a neoprene seal "N" or a silicone seal "S".

Glands with a neoprene seal can be used in a temperature range from -20 °C to +85 °C, whereas glands with silicone seal maintain a temperature range from -60 °C to +180 °C. (KUB glands are certified to a temperature of -60 °C to +85 °C).

[Type]	[c]	Seal material
KDSU	N,S	Neoprene, Silicone
KDSW	N,S	Neoprene (with continuity for lead sheath), Silicone
KDSX	S	Silicone
KSG	N,S	Neoprene, Silicone
KUB	N	Silicone (-60 °C to +85 °C)

Because the enclosure in the example case operates in a temperature range of -25 °C to +45 °C, a cable gland with a silicone seal has to be used. Consequently is

[c] = „S“ (Silicone)

2c) Selection of the plating [e]

All cable glands can be provided either with nickel plated surface "NI" or with self-coloured surface "SC".

In the example case the enclosure is used outdoor, therefore it can come into contact with water in form of rain, so that a cable gland with nickel plated surface as protection against corrosion and wear has to be selected. Consequently is [e] = „NI“

The generated information has to be filled into the order key below:

Order key	[Type]	[a]	[b]	[c]	[d]	[e]	[f]	[ggg]
Example Article Description	KDSU		B	S	0	NI		

3. Selection of the entry thread [a], the cable outer sheath variant [f] and the gland size [ggg]

Order key	[Type]	[a]	[b]	[c]	[d]	[e]	[f]	[ggg]
Example Article Description	KDSU		B	S	0	NI		

The suitable gland size [ggg] will be selected based on the inner and outer sheath diameters of the cable. Thereby the entry thread size [a] and the cable outer sheath variant [f] result.

In the example case the following diameters are given:

Cable Outer Sheath: 10 mm (By looking into the below shown dimensions chart of the KDSU the orange marked clamping ranges (Cable Outer Sheath [D]) can be selected).

Cable Inner Sheath: 8 mm (By looking into the below shown dimensions chart of the KDSU the orange marked clamping ranges (Cable Inner Sheath [C]) can be selected).

Dimensions

Gland Size [ggg]	Entry thread [B]	Entry thread Length [A]	Max Outer Diameter [A]	Max Length	Gland Seal Range						Armour Acceptance Range	Shroud Size
					Cable Inner Sheath [C]		Cable Outer Sheath [D]					
					Min	Max	Standard [f]=2		Reduced [f]=1			
							Min	Max	Min	Max		
G16	M20	16	28,0	78,0	3,4	8,4	9,0	13,5	6,7	10,3	0,15 - 1,25	L24
G20S	M20	16	28,0	78,0	7,2	11,7	11,5	16,0	9,4	12,5	0,15 - 1,25	L24
G20	M20	16	33,0	78,0	9,4	14,0	15,5	21,1	12,0	17,6	0,15 - 1,25	EL30
G25	M25	16	41,4	90,0	13,5	20,0	20,3	27,4	16,8	23,9	0,15 - 1,60	EL38
G32	M32	16	50,6	105,0	19,5	26,3	26,7	34,0	23,2	30,5	0,15 - 2,00	EL46
G40	M40	16	60,5	113,0	23,0	32,2	33,0	40,6	28,6	36,2	0,20 - 2,00	EL55
G50S	M50	16	71,5	125,0	28,1	38,2	39,4	46,7	34,8	42,4	0,30 - 2,50	EL65
G50	M50	16	71,5	125,0	33,1	44,1	45,7	53,2	41,1	48,5	0,30 - 2,50	EL65
G63S	M63	19	88,0	125,0	39,2	50,1	52,1	59,5	47,5	54,8	0,30 - 2,50	EL80
G63	M63	19	88,0	125,0	46,7	56,0	58,4	65,8	53,8	61,2	0,30 - 2,50	EL80
G75S	M75	19	99,0	131,0	52,1	62,0	64,8	72,2	60,2	68,0	0,30 - 2,50	EL90
G75	M75	19	99,0	131,0	58,0	68,0	71,1	78,0	66,5	73,4	0,30 - 2,50	EL90

Alle Dimensions in mm

By the selection of the inner [C] resp. outer [D] clamping range, a range should be used where the diameter of the cable outer and inner sheath are as near as possible to the average of the Min/Max Values. In doing so, the reduced cable outer sheath with the gland size G20S and the entry thread of M20 has to be selected.

Consequently is

[f]=1

[ggg]=G20S

[a]=M20

The generated information has to be filled into the order key below:

Order key	[Type]	[a]	[b]	[c]	[d]	[e]	[f]	[ggg]
Article description	KDSU	M20	B	S	0	NI	1	G20S

Resulting from the complete article description the relating order number (green marked) can be determined.

Extract from table KDSU "Nickel-plated brass gland with silicone sealing"

Order No.	Description	[Type]	[a]	[b]	[c]	[d]	[e]	[f]	[ggg]	Qty.
0930001221	KDSU M20 BS 0 NI 1 G16	KDSU	M20	B	S	0	NI	1	G16	20
0930001222	KDSU M20 BS 0 NI 2 G16	KDSU	M20	B	S	0	NI	2	G16	20
0930011223	KDSU M20 BS 0 NI 1 G20S	KDSU	M20	B	S	0	NI	1	G20S	20
0930011224	KDSU M20 BS 0 NI 2 G20S	KDSU	M20	B	S	0	NI	2	G20S	20
0930021221	KDSU M20 BS 0 NI 1 G20	KDSU	M20	B	S	0	NI	1	G20	20
...

General

Health & Safety

When Weidmüller cable glands and the accessories are used and installed as prescribed within the data sheet provided, they will not cause any danger or hazard to the health or safety of persons, animals or property. The products should be installed by suitably trained/skilled personnel and in full accordance with the relevant legislative regulations and the accepted code of practice for the industry concerned.

Warning

Weidmüller cable glands and accessories should not be used within any application other than those specified for each product, unless Weidmüller issue a statement in writing that the product is suitable for the specified application. For further information on each product, we refer you to the specific Assembly Instructions and General Arrangement drawings, which are available on request. Weidmueller takes no responsibility for any damage, unjury or other consequential loss caused where the glands are not installed or used according to our Assembly Instructions.

Installation in hazardous area applications

If cable glands and accessories are installed in hazardous area applications, international and national standards of the Explosion Protection have to be considered.


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