

Cable entries

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Cable entries

Weidmüller offers a variety of add-on components for a multitude of applications; complementing its wide range of enclosure products.

In addition to cable glands in brass, plastic and stainless steel, we provide sealing plugs, pressure compensation elements, adaptors and matching accessories, including lock nuts, flat gasket seals and earthing rings.

As with the enclosures, the cable glands come in IP protective classes from IP 54 to IP 69K and can be used as required in industrial standard applications, EMC applications or indeed in explosive hazard areas. They have the appropriate approvals for use in these areas. Ex certified Klippon® cable glands also allow the connection of braided and shielded armour with or without a lead sheath, as well as single wire reinforcement and metal foil armoured cables and wires. They can be used in temperatures from -60 °C to +180 °C.

Depending on the connector range and the application area, the cable glands, sealing plugs, adaptors, pressure compensation elements and accessories are certified and manufactured in line with the following standards:

- EN 60423 (metric thread)
- EN 40430 (PG and NPT thread)
- EN 60079-0 (General ATEX regulations)
- EN 60079-1 (Ex d ATEX regulations)
- EN 60079-7 (Ex e ATEX regulations)
- EN 60079-11 (Ex i ATEX regulations)
- EN 50262 (strain relief)
- EN 60529 (IP protection degree)

The range of cable glands, sealing plugs and pressure compensation elements is available in metric (M) and highstrength (PG) threads in sizes from M 12 to M 75 and PG 7 to PG 48. When choosing glands and sealing plugs, please refer to the table for the sealing characteristics of the O-rings, flat gaskets and seal inserts. The O-ring or flat gasket is always used to seal the connecting thread of an enclosure, while the seal insert for the cable gland actually seals and clamps the connection cable.



You should always observe the maximum drill-hole diameter when installing a cable gland, sealing plug, adaptor or pressure compensation element (e.g. onto the gland plate of an enclosure). These must not exceed the following specified maximum values / tolerances so that the protection degree of the whole enclosure can be guaranteed.

Through-hole information

M thread	Through-hole, in mm
M 12	12.2
M 16	16.2
M 20	20.2
M 25	25.2
M 32	32.2
M 40	40.2
M 50	50.2
M 63	63.2
M 75	75.2
PG thread	Through-hole, in mm
PG 7	12.4
PG 9	15.1
PG 11	18.5
PG 13.5	20.4
PG 16	22.5
PG 21	28.3
PG 29	37.4
PG 36	47.2
PG 42	54.2
PG 48	59.5

Overview of sealing materials for O-rings, flat gaskets as well as seal inserts

Abbreviation	Material	Trade name	Temperature range	Chemical resistance	Fire resistant	Shore	Free from halogens	UV resistance
TPE	Thermo-plastic elastomer	Santoprene	-40 °C...+130 °C	Hydrocarbons, oils, acids	UL94, HB	64	Yes	very good
CR	Chloroprene rubber	Neoprene	-40 °C...+130 °C	Mineral oils, greases, fuels	very good	40 - 90	No	very good
NBR	Nitrile rubber	Perbunan, Nitrile	-40 °C...+130 °C	Hydrocarbons, oils, acids, aliphatic solvents, greases, fuels	weak	40 - 90	No	good
EPDM	Ethylene-propylene-diene rubber	Keltan	-50 °C...+130 °C	Weather-, grease-, mineral oil-, chlorine-, and ozone resistant, hydrocarbons	weak	20 - 90		very good
FPM	Fluoro-rubber	Viton	-25 °C...+200 °C	ozone, oxygen, mineral oils, synthetic hydraulic fluids, fuels, aromatics, many organic solvents and chemicals	weak	65 - 95		good

Abbreviations - technical data

Abbreviation	Technical data
A, L	Length in mm
L1	Length of thread in mm
D	Diameter in mm
S	Thickness in mm
GWDR	Threaded sealing ring or IP washer in mm
S1, S2	Depth in mm
SW	Distance across flats in mm
KB	Clamping range in mm
Thread	External thread
SUHB	Shroud
DR	Body torque in Nm
MODR	Mounting torque in Nm
DR HM	Cap nut torque in Nm
Qty.	Packing unit in pieces

Product designation

Product designation	Description
VG	Cable gland
VP	Sealing plugs
KDSU	Klippon® Double Seal Universal
KDSW	Klippon® Double Seal for SWA
KDSX	Klippon® Double Seal for SWB/STA
KSG	Klippon® Standard Gland
KUB	Klippon® Universal Barrier
KSPA	Klippon® Stopping Plug Type A
KSPM	Klippon® Stopping Plug Mushroom
KSWN	Klippon® Sealing Washer Nylon
KSWF	Klippon® Sealing Washer Red Fibre
KSP	Klippon® Shroud PVC/Silicone
SKMU	Hexagon nut
DAE	Pressure compensation element
BD	Breather drain (compensation element)
EWS	Drain plug
SZS	Serrated Star Washers
ZE	Strain relief
EMV	Electromagnetic compatibility
SKS	Spiral kink protection
GWDR	Threaded sealing ring or IP washer
ZR	Onion ring system (removable seal incisions system)

Glands and accessories

The tables below provide an overview of the Weidmüller cable glands and the recommended accessories.

Standard glands

Material/Type	Approvals			Ex	EMC	Armouring	Thread sealing rings			Locknuts			
	IP class of protection without seal	IP class of protection with seal					CSM GWDR PO	CR GWDR...NR	O-Ring	grey SKMU...K GR	black SKMU...KSW	brass SKMU...MS	MS EMC SKMU EMV...
Plastic													
 VG ... K67	IP 67									•			
 VG ... K68	IP 68 / 5 bar									•			
 VG ... K68 SKS	IP 68 / 5 bar									•			
Nickel-plated brass													
 VG ... MS54	IP 54	IP 65					optional					•	
 VG ... MS68		IP 68 / 5 bar, IP 69k							included			•	
 VG ... MS54-ZE	IP 54											•	
 VG...MS54 ZE BS	IP 54											•	
 VG...MS54 ZR	IP 54											•	
 VG ... EMV		IP 68 / 10 bar		•					included				•
 VG ... 1/EMV		IP 68 / 5 bar, IP 69k		•					included				•
Stainless steel													
 VG...SS68		IP 68 / 5 bar, IP 69k							included			•	

Cable glands Ex

Material/Type	Approvals			Ex	EMC	Armouring	Thread sealing rings			Locknuts			
	IP class of protection without seal	IP class of protection with seal					CSM GWDR PO	CR GWDR...NR	O-Ring	grey SKMU...K GR	black SKMU...KSW	brass SKMU...MS	MS EMC SKMU EMV...
Nickel-plated brass, Ex													
 KDSU...BN/BS O NI		IP 68 / 2.5 bar	Exe/d			•			included			•	
 KUB...BS O NI		IP 66, IP 68 / 10 bar	Exe/d			•			included			•	
 KDSW...BN/BS O/L NI	IP 54	IP 54, IP 66, IP 68 / 2.5 bar	Exe/d			•	optional					•	
 KDSX...BS O NI	IP 54	IP 54, IP 66, IP 68 / 2.5 bar	Exe/d			•	optional					•	
 KSG...BN/BS O NI		IP 66, IP 68 / 2.5 bar	Exe/d						included			•	
Brass Ex													
 KDSU...BN/BS O SC		IP 68 / 2.5 bar	Exe/d			•			included			•	
 KUB...BS O SC		IP 66, IP 68 / 10 bar	Exe/d			•			included			•	
 KDSW...BN/BS O/L SC	IP 54	IP 54, IP 66, IP 68 / 2.5 bar	Exe/d			•	optional					•	
 KDSX...BS O SC	IP 54	IP 54, IP 66, IP 68 / 2.5 bar	Exe/d			•	optional					•	
 KSG...BN/BS O SC		IP 66, IP 68 / 2.5 bar	Exe/d						included			•	
Ex - Stainless steel glands on request													

Adaptor

Material/Type	Approvals		Ex	Thread sealing rings			Locknuts			
	IP class of protection without seal	IP class of protection with seal		CSM GWDR PO	CR GWDR...NR	O-Ring	grey SKMU...K GR	black SKMU...K SW	brass SKMU...MS	MS EMC SKMU EMV...
Plastic										
 DAE M12 PA		IP 66, IP 68, IP 69K				included				
 DAE M12 PA long		IP 66, IP 68, IP 69K				included		•		
Plastic Ex										
 EWS		IP 54	•	•						
Stainless steel										
 DAE M12 SS		IP 66, IP 68, IP 69K				included			•	•
Stainless steel Ex										
 BD 1 ss		IP 66	•			included				
Brass Ex										
 BD 1 brass		IP 66	•			included				
Brass Ex										
 KLIPPON BDX ... B		IP 66	•			included				
Stainless steel Ex										
 KLIPPON BDX ... S		IP 66	•			included				

Stopping plugs

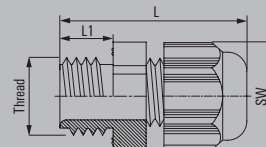
Material/Type	Approvals			Thread sealing rings			Locknuts			
	IP class of protection without seal	IP class of protection with seal	Ex	CSM GWDR PO	CR GWDR...NR	O-Ring	grey SKMU...K GR	black SKMU...K SW	brass SKMU...MS	MS EMC SKMU EMV...
Plastic										
 VP ... K54		IP 54	IP 65				•			
Nickel-plated brass										
 VP ... MS65			IP 68			included			•	
Stainless steel										
 KSPM...SSC		IP 66, IP 68	Exe/d			included			•	
Plastic Ex										
 VP...Ex SW		IP 66	IP 66, IP 68		optional			•		
 KSPM...PL			IP 66, IP 68			Nitrile		•		
Nickel-plated brass, Ex										
 VP...Ex MS			IP 68			included			•	
 KSPA...BNI		IP 54	Ex d						•	
Brass Ex										
 KSPM...BSC		IP 66, IP 68	Exe/d			included			•	

Standard cable glands - Plastic

Cable glands - Plastic - IP 67



Inexpensive cable gland for industrial applications, without approvals.



Technical data

Material / Colour	Polyamide 6 / RAL 7035
Seal insert	CR
Temperature range	-20 °C...80 °C
Protection degree	IP 67
Flammability rating	V-2

Note

Version with moulded sealing lip
Length L varies depending on the cable diameter used

Ordering data

Typ metric	Thread	KB	L/L1	SW	TRQ CN min. / max.	TRQ B0 min. / max.	Qty.	Order No.
VG M12-K67	M 12 / 1.5	3-6.5	23.9 / 8	15	1.50 / 2.50	1.00 / 3.00	100	1909660000
VG M16-K67	M 16 / 1.5	4-8	27.7 / 8	19	2.00 / 3.00	1.00 / 4.00	50	1909670000
VG M16-K67	M 16 / 1.5	5-10	29 / 10	22	2.00 / 3.00	1.00 / 4.00	50	1909680000
VG M20-K67	M 20 / 1.5	6-12	29.2 / 10	24	4.50 / 5.50	2.00 / 5.00	50	1909690000
VG M20-K67	M 20 / 1.5	10-14	32.8 / 10	27	5.00 / 6.00	2.00 / 5.00	50	1909700000
VG M25-K67	M 25 / 1.5	13-18	37.9 / 8	29	7.00 / 9.00	2.00 / 5.00	25	1909710000
VG M32-K67	M 32 / 1.5	18-25	40.7 / 10	36	8.00 / 10.00	3.00 / 7.00	20	1909720000
VG M40-K67	M 40 / 1.5	22-32	51.3 / 10	46	16.00 / 19.00	7.00 / 12.00	10	1909730000
VG M50-K67	M 50 / 1.5	30-38	53.5 / 18	60	20.00 / 24.00	9.50 / 15.50	10	1909740000
VG M63-K67	M 63 / 1.5	34-44	55 / 18	65	20.50 / 25.50	12.50 / 18.50	10	1909750000
PG								
VG PG7-K67	PG 7	3-6.5	23.9 / 8	15	1.50 / 2.50	1.20 / 1.80	100	1909760000
VG PG9-K67	PG 9	4-8	27.7 / 8	19	2.00 / 3.00	1.20 / 1.80	50	1909770000
VG PG11-K67	PG 11	5-10	29 / 8	22	2.00 / 3.00	1.50 / 2.50	50	1909780000
VG PG13.5-K67	PG 13.5	6-12	29.2 / 9	24	4.50 / 5.50	2.50 / 3.50	50	1909790000
VG PG16-K67	PG 16	10-14	32.8 / 10	27	5.00 / 6.00	2.50 / 4.50	50	1909800000
VG PG21-K67	PG 21	13-18	37.9 / 11	33	5.00 / 6.00	7.00 / 9.00	25	1909810000
VG PG29-K67	PG 29	18-25	40.7 / 11	42	7.00 / 8.00	7.50 / 10.50	20	1909820000
VG PG36-K67	PG 36	22-32	51.3 / 13	53	14.50 / 15.30	9.50 / 12.50	10	1909830000
VG PG42-K67	PG 42	30-38	53.5 / 13	60	17.00 / 19.00	12.00 / 16.00	10	1909840000
VG PG48-K67	PG 48	34-44	55 / 14	65	19.00 / 21.00	12.00 / 16.00	10	1909850000

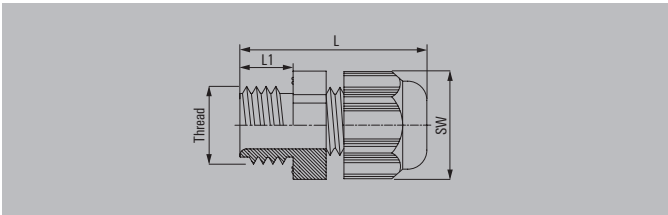
Note

Integrated strain relief, halogen-free without sealing ring.

Cable glands - Plastic - IP 68



Plastic cable gland with integrated strain relief for industrial applications requiring IP 68 protection.



Technical data

Material / Colour	Polyamide 6 / RAL 7035
Seal insert	CR
Temperature range	-30 °C...80 °C
Protection degree	IP 68 - 5 bar (30 min.)
Flammability rating	V-2

Note Version with moulded sealing lip
Length L varies depending on the cable diameter used

Ordering data

Typ metric	Thread	KB	L/L1	SW	TRQ CN min. / max.	TRQ B0 min. / max.	Qty.	Order No.
VG M12-1/K68	M 12 / 1.5	3-6.5	32.4 / 8	15	1.50 / 2.50	1.00 / 3.00	100	1772280000
VG M16 - K 68	M 16 / 1.5	5-10	39.7 / 10	22	2.00 / 3.00	1.00 / 4.00	50	1772290000
VG M16-1/K68	M 16 / 1.5	4-8	35.7 / 8	19	2.00 / 3.00	1.00 / 4.00	50	1909860000
VG M20-1/K68	M 20 / 1.5	6-12	41.2 / 10	24	4.50 / 5.50	2.00 / 5.00	50	1772300000
VG M25 - K 68	M 25 / 1.5	13-18	48.2 / 10	33	7.00 / 9.00	2.00 / 5.00	25	1772310000
VG M25-1/K68	M 25 / 1.5	11-17	43.2 / 8	29	7.00 / 9.00	2.00 / 5.00	25	1909870000
VG M32 - K 68	M 32 / 1.5	18-25	50.8 / 18	42	8.00 / 10.00	3.00 / 7.00	20	1772320000
VG M32-1/K68	M 32 / 1.5	15-21	50.7 / 10	36	8.00 / 10.00	3.00 / 7.00	20	1909880000
VG M40 - K 68	M 40 / 1.5	22-32	69.9 / 18	53	16.00 / 19.00	7.00 / 12.00	10	1772330000
VG M40-1/K68	M 40 / 1.5	19-28	55.2 / 10	46	16.00 / 19.00	7.00 / 12.00	10	1909890000
VG M50 - K 68	M 50 / 1.5	30-38	71.7 / 18	60	20.00 / 24.00	9.50 / 15.50	10	1772340000
VG M63-1/K68	M 63 / 1.5	34-44	72.9 / 18	65	20.50 / 25.50	12.50 / 18.50	10	1772350000
PG								
VG 7-K68	PG 7	3-6.5	30.5 / 8	15	1.50 / 2.50	1.20 / 1.80	100	1568970000
VG 9-K68	PG 9	4-8	34 / 8	19	2.00 / 3.00	1.20 / 1.80	50	1568980000
VG 11-K68	PG 11	5-10	37 / 8	22	2.00 / 3.00	1.50 / 2.50	50	1568990000
VG 13.5-K68	PG 13.5	6-12	39 / 9	24	4.50 / 5.50	2.50 / 3.50	50	1569000000
VG 16-K68	PG 16	10-14	42.5 / 10	27	5.00 / 6.00	2.50 / 4.50	50	1569010000
VG 21-K68	PG 21	13-18	48 / 11	33	5.00 / 6.00	7.00 / 9.00	25	1569020000
VG 29-K68	PG 29	18-25	53 / 11	42	7.00 / 8.00	7.50 / 10.50	20	1569030000
VG 36-K68	PG 36	22-32	65 / 13	53	14.50 / 15.50	9.50 / 12.50	10	1569040000
VG 42-K68	PG 42	30-38	68 / 13	60	17.00 / 19.00	12.00 / 16.00	10	1569050000
VG 48-K68	PG 48	34-44	69 / 14	65	19.00 / 21.00	12.00 / 16.00	10	1718770000

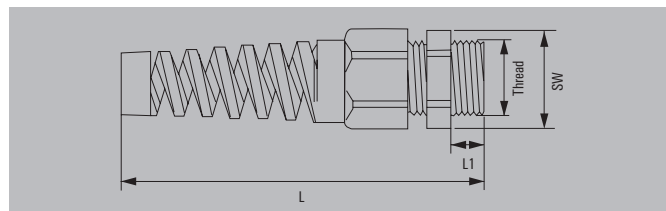
Note Long-thread version on request, halogen-free without sealing ring

Standard cable glands - Plastic

Cable glands - Plastic - SKS



Plastic cable gland with spiral bending protection specially suited for flexible connections.



Technical data

Material / Colour	Polyamide 6 / RAL 7035
Seal insert	CR
Temperature range	-30 °C...80 °C
Protection degree	IP 68 - 5 bar (30 min.)
Flammability rating	V-2

Note Version with moulded sealing lip
Length L varies depending on the cable diameter used

Ordering data

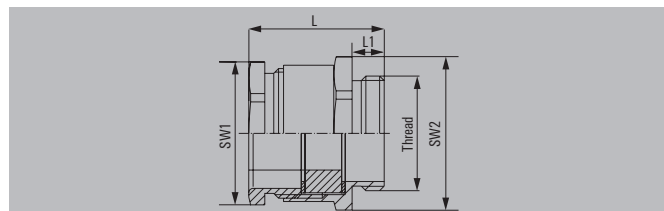
Typ metric	Thread	KB	L/L1	SW	TRQ CN min. / max.	TRQ B0 min. / max.	Qty.	Order No.
VGM12-K68 SKS	M 12 / 1.5	3-6.5	65 / 8	15	1.50 / 2.50	1.50 / 2.50	100	1776700000
VGM16-K68 SKS	M 16 / 1.5	5-10	90 / 10	22	2.00 / 3.00	2.00 / 3.00	50	1776710000
VGM20-K68 SKS	M 20 / 1.5	6-12	106 / 10	24	4.50 / 5.50	2.00 / 5.00	50	1778860000
VGM20-K68 SKS	M 20 / 1.5	10-14	116 / 10	27	5.00 / 6.00	2.00 / 5.00	50	1776720000
VGM25-K68 SKS	M 25 / 1.5	13-18	129 / 10	33	7.00 / 9.00	2.00 / 5.00	25	1776730000
PG								
VG 9-K68 SKS	PG 9	4-8	79 / 8	19	2.00 / 3.00	1.50 / 2.50	50	1720480000
VG 11-K68 SKS	PG 11	5-10	89 / 8	22	2.00 / 3.00	1.50 / 2.50	100	1720490000
VG 13.5-K68 SKS	PG 13.5	6-12	105 / 9	24	4.50 / 5.50	2.50 / 3.50	50	1720500000
VG 16-K68 SKS	PG 16	10-14	117 / 10	27	5.00 / 6.00	2.50 / 4.50	25	1720510000
VG 21-K68 SKS	PG 21	13-18	130 / 11	33	5.00 / 6.00	7.00 / 9.00	20	1720520000

Note VDE for metric variants, halogen free, without sealing ring

Cable glands - Brass - IP 54



Standard brass cable gland for industrial applications that require IP 54 protection.



Technical data

Material	Brass, nickel-plated
Seal insert	NBR
Temperature range	-20 °C...60 °C
Protection degree	IP 54

Note Optional sealing ring
Length „L“ varies depending on the cable diameter used.

Ordering data

Typ metric	Thread	KB	L/L1	SW1/SW2	TRQ CN min. / max.	TRQ B0 min. / max.	Qty.	Order No.
VGM12-MS54	M 12 / 1.5	5-7	21.5 / 5	13 / 14	5.30 / 5.30	8.00 / 8.00	100	1778410000
VGM12-MS54	M 12 / 1.5	6-8	22 / 6	15 / 17	5.30 / 5.30	8.00 / 8.00	100	1778400000
VGM16-MS54	M 16 / 1.5	8-10	26 / 5	18 / 20	6.70 / 6.70	10.00 / 10.00	100	1778390000
VGM20-MS54	M 20 / 1.5	8-10	26.5 / 6	18 / 22	8.00 / 8.00	12.00 / 12.00	50	1778380000
VGM20-MS54	M 20 / 1.5	10-12	26.5 / 6.5	20 / 22	8.00 / 8.00	12.00 / 12.00	50	1778370000
VGM25-MS54	M 25 / 1.5	12-14	27.5 / 7	22 / 27	8.00 / 8.00	12.00 / 12.00	50	1778360000
VGM25-MS54	M 25 / 1.5	15-17	29.5 / 7	28 / 30	8.00 / 8.00	12.00 / 12.00	50	1778350000
VGM32-MS54	M 32 / 1.5	24-26	33 / 8	38 / 40	12.00 / 12.00	18.00 / 18.00	25	1778340000
VGM40-MS54	M 40 / 1.5	33-35	33 / 9	37 / 43	12.00 / 12.00	18.00 / 18.00	25	1778330000
VGM50-MS54	M 50 / 1.5	31-33	39 / 9	47 / 55	13.30 / 13.30	20.00 / 20.00	10	1778320000
VGM50-MS54	M 50 / 1.5	39-41	43 / 10	54 / 57	13.30 / 13.30	20.00 / 20.00	5	1778310000
VGM63-MS54	M 63 / 1.5	45-47	45 / 10	60 / 68	13.30 / 13.30	20.00 / 20.00	5	1778300000
PG								
VG 7-MS54	PG 7	5-7	20.5 / 5	13 / 14	4.20 / 4.20	6.25 / 6.25	100	0521500000
VG 9-MS54	PG 9	6-8	22 / 6	15 / 17	4.20 / 4.20	6.25 / 6.25	100	0261500000
VG 11-MS54	PG 11	8-10	26 / 6	18 / 20	4.20 / 4.20	6.25 / 6.25	50	0260700000
VG 13.5-MS54	PG 13.5	10-12	26 / 6.5	20 / 22	4.20 / 4.20	6.25 / 6.25	50	0260800000
VG 16-MS54	PG 16	12-14	27 / 6.5	22 / 24	5.00 / 5.00	7.50 / 7.50	50	0261400000
VG 21-MS54	PG 21	15-17	29.5 / 7	28 / 30	6.70 / 6.70	10.00 / 10.00	50	0260900000
VG 29-MS54	PG 29	24-26	33 / 8	37 / 40	6.70 / 6.70	10.00 / 10.00	25	0261000000
VG 36-MS54	PG 36	33-35	39 / 9	47 / 50	6.70 / 6.70	10.00 / 10.00	20	0497600000
VG 42-MS54	PG 42	39-41	44 / 10	54 / 57	6.70 / 6.70	10.00 / 10.00	10	0497700000
VG 48-MS54	PG 48	45-47	45 / 10	60 / 64	6.70 / 6.70	10.00 / 10.00	5	1718780000

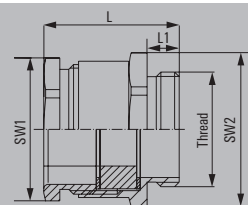
Note Further versions on request

Standard cable glands - Brass

Cable glands - Brass - ZR



Brass cable gland with incision seal for standard industrial applications. The seal insert which is used contains several removable or separable inlets. This enables cables with a diameter of 4 mm to 41 mm to be connected.



Technical data

Material	Brass, nickel-plated
Seal insert	NBR
Temperature range	-20 °C...80 °C
Protection degree	IP 54

Note

Ordering data

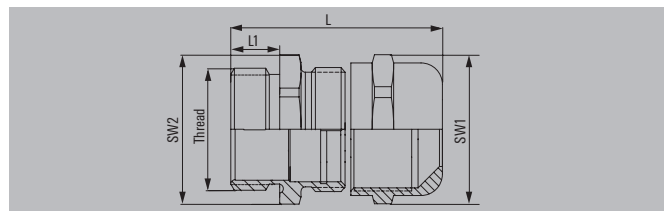
Typ metric	Thread	KB	L/L1	SW1/SW2	TRQ CN, min.	TRQ B0, min.	D1	D2	D3	D4	Qty.	Order No.
VG M20-MS54	M 20 / 1.5	4-13	26.5 / 6.5	22 / 24	3.05	6.25	4	7	10	13	50	1009560000
VG M25-MS54	M 25 / 1.5	8.5-18	27.5 / 7	28 / 30	3.66	7.50	8.5	11.5	14.5	18	25	1009570000
VG M32-MS54	M 32 / 1.5	16-26	33 / 8	37 / 40	4.88	10.00	16	19	22	25	25	1009580000
VG M40-MS54	M 40 / 1.5	23-30	33 / 33	47 / 50	4.88	10.00	23	26	29	32	10	1009590000
VG M50-MS54	M 50 / 1.5	32-40	39 / 39	54 / 57	4.88	10.00	32	35	38	41	5	1009600000
PG												
VGPG13.5-MS54	PG 13.5	7.5-12.5	22 / 6.5	20 / 22	4.20	6.25	7.5	10	12.5	0	50	1009610000
VG PG16-MS54	PG 16	7.5-15	27 / 6.5	22 / 24	5.00	7.50	7.5	10	12.5	15	50	1009620000
VG PG21-MS54	PG 21	10-19	29.5 / 7	28 / 30	6.70	10.00	10	13	16	19	25	1009630000
VG PG29-MS54	PG 29	18-27	33 / 8	37 / 40	6.70	10.00	18	21	24	27	25	1009640000
VG PG36-MS54	PG 36	24-33	39 / 9	47 / 50	6.70	10.00	24	27	30	33	10	1009650000
VG PG42-MS54	PG 42	30-39	44 / 10	54 / 57	6.70	10.00	30	33	36	39	5	1009670000

Note D1-D4 are the removable seal incisions from 4 mm to 41 mm.

Cable glands - Brass - IP 68



Standard brass cable gland for industrial applications that require IP 68 or IP 69K protection.



Technical data

Material	Brass, nickel-plated
O-ring / Seal insert	NBR / CR
Temperature range	-40 °C...100 °C
Clamp insert	Polyamide
Protection degree with GWDR	IP 68 - 5 bar, IP 69K

Note

Length „L“ varies depending on the cable diameter used; IP 69K applies to all metric cable glands; the following thread sizes PG29, PG36, PG42 and PG48 are excluded from IP 69K.

Ordering data

Typ metric	Thread	KB	L/L1	SW1/SW2	TRQ CN min. / max.	TRQ B0 min. / max.	Qty.	Order No.
VG M12 - MS 68	M 12 / 1.5	3-6.5	28 / 6	14 / 14	4.50 / 5.50	2.50 / 3.50	50	1772200000
VG M16 - MS 68	M 16 / 1.5	4-8	33 / 7	17 / 18	5.00 / 6.00	3.50 / 4.50	50	1772210000
VG M16-1/MS68	M 16 / 1.5	4.5-10	37.3 / 7	20 / 20	5.00 / 6.00	3.50 / 4.50	50	1909910000
VG M20 - MS 68	M 20 / 1.5	6-12	38 / 8	22 / 22	7.00 / 9.00	5.00 / 6.00	50	1772220000
VG M25 - MS 68	M 25 / 1.5	10-14	42 / 8	24 / 27	10.00 / 12.00	5.00 / 7.00	25	1772230000
VG M25-1/MS68	M 25 / 1.5	11-17	42 / 8	27 / 27	10.00 / 12.00	5.00 / 7.00	25	1909920000
VG M32 - MS 68	M 32 / 1.5	13-18	48 / 9	30 / 34	16.00 / 18.00	5.00 / 7.00	25	1772240000
VG M32-1/MS68	M 32 / 1.5	15-21	45 / 8	34 / 34	16.00 / 18.00	5.00 / 7.00	20	1909930000
VG M40 - MS 68	M 40 / 1.5	18-25	53 / 9	40 / 43	21.00 / 23.00	10.50 / 13.50	20	1772250000
VG M40-1/MS68	M 40 / 1.5	19-28	55.1 / 9	43 / 43	21.00 / 23.00	10.50 / 13.50	20	1909940000
VG M50 - MS 68	M 50 / 1.5	22-32	57 / 9	50 / 55	38.50 / 41.50	16.00 / 20.00	15	1772260000
VG M50-1/MS68	M 50 / 1.5	27-38	62.2 / 9	58 / 58	38.50 / 41.50	16.00 / 20.00	12	1909950000
VG M63 - MS 68	M 63 / 1.5	34-44	65 / 14	64 / 68	48.00 / 52.00	22.50 / 27.50	12	1772270000
PG (IP 69K)								
VG 7-MS68	PG 7	3-6.5	28 / 6	14 / 14	4.50 / 5.50	2.50 / 3.50	50	1569060000
VG 9-MS68	PG 9	4-8	28 / 6	17 / 17	5.00 / 6.00	3.50 / 4.50	50	1569070000
VG 11-MS68	PG 11	5-10	31 / 6	20 / 20	6.50 / 7.50	4.50 / 5.50	50	1569080000
VG 13.5-MS68	PG 13.5	6-12	31 / 6.5	22 / 22	7.00 / 9.00	4.50 / 6.50	50	1569090000
VG 16-MS68	PG 16	10-14	34 / 6.5	24 / 24	10.00 / 12.00	6.00 / 8.00	25	1569100000
VG 21-MS68	PG 21	13-18	39 / 7	30 / 30	16.00 / 18.00	9.00 / 11.00	25	1569110000
PG (IP68)								
VG 29-MS68	PG 29	18-25	47 / 8	40 / 50	21.00 / 23.00	13.50 / 16.50	20	1569120000
VG 36-MS68	PG 36	22-32	57 / 10	50 / 50	38.50 / 41.50	18.00 / 22.00	15	1569130000
VG 42-MS68	PG 42	30-38	60 / 12	58 / 58	43.00 / 47.00	25.00 / 29.00	12	1569140000
VG 48-MS68	PG 48	34-44	63 / 14	64 / 64	48.00 / 52.00	32.50 / 37.50	12	1718790000

Note

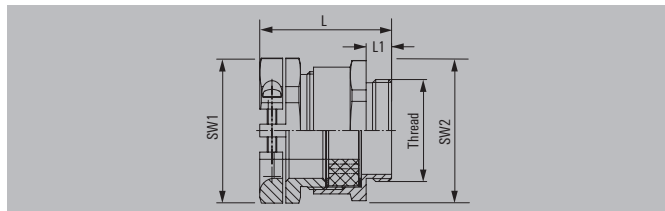
Long-thread version on request
VDE for metric version

Standard cable glands - Brass

Cable glands - Brass - ZE



Brass cable glands with external, centrally positioned strain relief provided by clamping jaws. The seal insert which is used contains several removable or separable inlets.



Technical data

Material	Brass, nickel-plated
Seal insert	NBR
Temperature range	-20 °C...80 °C
Protection degree	IP 54

Note

Optional sealing ring
Length „L“ varies depending on the cable diameter used.

Ordering data

Typ metric	Thread	KB	KB ZE	L/L1	SW1/SW2	TRQ CN min. / max.	TRQ B0 min. / max.	Qty.	Order No.
VGM12-MS54 ZE	M 12 / 1.5	5-7	5.8-8	21.5 / 6	14 / 16	5.33 / 5.33	8.00 / 8.00	100	1778420000
VGM16-MS54 ZE	M 16 / 1.5	4-10	6.5-10	26 / 6	18 / 19	6.67 / 6.67	10.00 / 10.00	100	1778440000
VGM20-MS54 ZE	M 20 / 1.5	6.5-12.5	7.5-12	26.5 / 6.5	22 / 22	8.00 / 8.00	12.00 / 12.00	50	1778450000
VGM20-MS54 ZE	M 20 / 1.5	6.5-12.5	8.5-14	26.5 / 6.5	22 / 24	8.00 / 8.00	12.00 / 12.00	50	1778460000
VGM25-MS54 ZE	M 25 / 1.5	9-19	12-21	29.5 / 7	30 / 34	8.00 / 8.00	12.00 / 12.00	50	1778480000
VGM32-MS54 ZE	M 32 / 1.5	17-27	19-30	33 / 8	40 / 42	12.00 / 12.00	18.00 / 18.00	25	1778490000
VGM40-MS54 ZE	M 40 / 1.5	23-33	25-37	33 / 8	50 / 52	12.00 / 12.00	18.00 / 18.00	25	1778500000
VGM50-MS54 ZE	M 50 / 1.5	29-39	31-43	43 / 9	57 / 59	13.33 / 13.33	20.00 / 20.00	5	1778520000
VGM63-MS54 ZE	M 63 / 1.5	35-45	35-48	45 / 10	66 / 64	13.33 / 13.33	20.00 / 20.00	5	1778530000
PG									
VG 7-MS54-ZE	PG 7	5-7	5.8-8	27 / 5	14 / 16	4.20 / 4.20	6.25 / 6.25	50	1718800000
VG 9-MS54-ZE	PG 9	4-10	6.5-10	30.5 / 6	17 / 19	4.20 / 4.20	6.25 / 6.25	50	1718810000
VG 11-MS54-ZE	PG 11	6.5-12.5	7.5-12	31.5 / 6	20 / 22	4.20 / 4.20	6.25 / 6.25	50	1718820000
VG 13.5-MS54-ZE	PG 13.5	6.5-12.5	8.5-14	32 / 6.5	22 / 24	4.20 / 4.20	6.25 / 6.25	50	1718830000
VG 16-MS54-ZE	PG 16	6.5-15	9.5-17	33 / 6.5	24 / 27	5.00 / 5.00	7.50 / 7.50	50	1718840000
VG 21-MS54-ZE	PG 21	9-19	12-21	38 / 7	30 / 34	6.70 / 6.70	10.00 / 10.00	50	1718850000
VG 29-MS54-ZE	PG 29	17-27	19-30	43 / 8	40 / 40	6.70 / 6.70	10.00 / 10.00	25	1718860000
VG 36-MS54-ZE	PG 36	23-33	25-37	49.5 / 9	50 / 50	6.70 / 6.70	10.00 / 10.00	10	1718870000
VG 42-MS54-ZE	PG 42	29-39	31-43	53.5 / 10	57 / 57	6.70 / 6.70	10.00 / 10.00	5	1718880000
VG 48-MS54-ZE	PG 48	35-45	35-48	55 / 10	64 / 64	6.70 / 6.70	10.00 / 10.00	5	1718890000

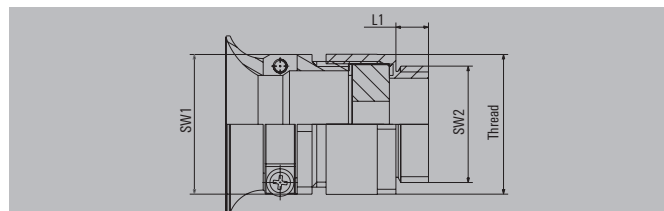
Note

Further versions on request

Cable glands - Brass - ZE - BS



Industrial brass cable glands with strain-relief and trumpet-shaped anti-bend mechanism for connecting non-stationary cables and lines. The seal insert which is used contains several removable or separable inlets.



Technical data

Material	Brass, nickel-plated
Seal insert	NBR
Temperature range	-20 °C...80 °C
Protection degree	IP 54

Note

Ordering data

Typ metric	Thread	KB	KB ZE	L/L1	SW1/SW2	TRQ CN min. / max.	TRQ B0 min. / max.	Qty.	Order No.
VGM16-MS54ZE	M 16 / 1.5	4-10	6-9	5 / 6	18 / 22	6.70 / 6.70	10.00 / 10.00	50	1005190000
VGM16-MS54ZE	M 16 / 1.5	6.5-12.5	8-12	34 / 5	20 / 26	6.70 / 6.70	10.00 / 10.00	50	1005200000
VGM20-MS54ZE	M 20 / 1.5	6.5-12.5	8-12	37.8 / 6	22 / 26	8.00 / 8.00	12.00 / 12.00	50	1005210000
VGM20-MS54ZE	M 20 / 1.5	6.5-15	10-15	37.8 / 6.5	24 / 32	8.00 / 8.00	12.00 / 12.00	50	1005220000
VGM25-MS54ZE	M 25 / 1.5	9-19	14-20	44 / 7	30 / 38	8.00 / 8.00	12.00 / 12.00	25	1005230000
VGM32-MS54ZE	M 32 / 1.5	17-27	18-27	50.8 / 8	40 / 50	12.00 / 12.00	18.00 / 18.00	25	1005240000

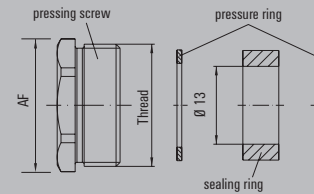
Note

Standard cable glands - Brass

Clamping screws - Brass - IP 65



The halved cable glands are designed for use in HDC – RockStar® base and hoods. The seal insert which is used contains several removable or separable inlets.



Technical data

Clamping screw material	Brass, nickel-plated
Sealing ring material	SBR/NBR
Pressure ring material	Polyamide
Temperature range	-20 °C...60 °C
Protection degree	IP 65

Note

Ordering data

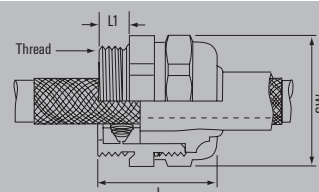
Typ metric	Thread	Inserts in mm	SW	Qty.	Order No.
VG H M20 MS	M 20 / 1.5	4 / 7 / 10 / 13	20	50	1921720000
VG H M25 MS	M 25 / 1.5	8.5 / 11.5 / 14.5 / 18	25	25	1921740000
VG H M32 MS	M 32 / 1.5	16 / 19 / 22 / 25	32	20	1921760000
VG H M40 MS	M 40 / 1.5	23 / 26 / 29 / 32	40	10	1921770000
PG					
KV 11-M	PG 11	7.5 / 10 / 12.5	10	10	1656390000
KV 13-M	PG 13	7.5 / 10 / 12.5	10	10	1656400000
KV 16-M	PG 16	7.5 / 10 / 12.5 / 15	10	10	1656410000
KV 21-M	PG 21	10 / 13 / 16 / 19	10	10	1656420000
KV 29-M	PG 29	18 / 21 / 24 / 27	10	10	1656430000

Note

Cable glands - Brass - EMC



Brass cable gland for shielding against interference frequencies with a screening attenuation of up to 100 dB. Contact with cable shield by means of spring washer.



Technical data

Material	Brass, nickel-plated
O-Ring	NBR
Temperature range	-40 °C...135 °C
Protection degree	IP 68 - 10 bar
Clamp insert	TPE

Note Length „L“ varies according to cable diameter used

Ordering data

Typ metric	Thread	KB	Shield Ø	L/L1	SW	TRQ CN min. / max.	TRQ B0 min. / max.	Qty.	Order No.
VG EMV M18X1.5	M 18 / 1.5	6.5-9	3.50-7.50	41 / 10	24	9.00 / 30.00	30.00 / 30.00	50	1706920000
VG EMV M20X1.5	M 20 / 1.5	8-11	4.00-8.50	41 / 10	24	9.00 / 10.00	9.00 / 9.00	50	1706940000
VG EMV M24X1.5	M 24 / 1.5	14-18	9.50-16.50	43 / 11	30	10.00 / 10.00	10.00 / 10.00	50	1706930000
VG EMV M25X1.5	M 25 / 1.5	14-18	8.00-13.50	43 / 11	30	10.00 / 10.00	10.00 / 10.00	25	1706950000
PG									
VG EMV PG 7/9	PG 7	4-6.5	1.50-4.00	32 / 5	17	6.00 / 20.00	20.00 / 20.00	50	1713870000
VG EMV PG 9/11	PG 9	6.5-9.5	2.50-6.00	34 / 6	20	6.00 / 8.00	6.00 / 6.00	50	1706860000
VG EMV PG 11	PG 11	6.5-9	3.50-7.50	41 / 10	24	10.00 / 10.00	10.00 / 10.00	50	1706870000
VG EMV PG 13.5	PG 13.5	8-11	4.00-8.50	41 / 10	24	10.00 / 10.00	10.00 / 10.00	50	1706880000
VG EMV PG 16 K14	PG 16	10-14	6.50-11.50	43 / 11	30	10.00 / 10.00	10.00 / 10.00	25	1706890000
VG EMV PG 16 K18	PG 16	14-18	6.50-11.50	43 / 11	30	10.00 / 10.00	10.00 / 10.00	25	1713880000
VG EMV PG 21 K18	PG 21	17-20	12.50-17.50	45 / 11	35	10.00 / 15.00	10.00 / 10.00	10	1706900000
VG EMV PG K28	PG 21	17-20	12.50-17.50	45 / 11	35	8.00 / 15.00	8.00 / 8.00	10	1713890000
VG EMV PG 29 K26	PG 29	22-26	15.00-21.00	52 / 13	40	15.00 / 20.00	15.00 / 15.00	10	1706910000
VG EMV PG 29 K29	PG 29	25-29	22.00-25.00	58 / 13	50	20.00 / 20.00	20.00 / 20.00	5	1713900000
VG EMV PG36 K32-27	PG 36	27-32	24.00-30.50	54 / 9	50	15.00 / 30.00	15.00 / 15.00	10	1770410000

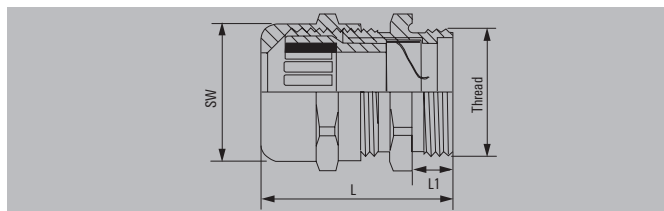
Note Further versions on request

EMC cable glands

Cable glands - Brass - 1/EMC



Brass cable gland for shielding against interference frequencies with a shield attenuation of up to 90 dB. Conical metal cage ensures multiple contacts with the cable shielding. On installation, the cable gland does not have to be divided into its individual parts, enabling particularly simple installation.



Technical data

Material	Brass, nickel-plated
O-ring / Seal insert	NBR / CR
Temperature range	-40 °C...100 °C
Protection degree	IP 68 - 10 bar
Clamp insert	Polyamide

Note Length „L“ varies according to cable diameter used

Ordering data

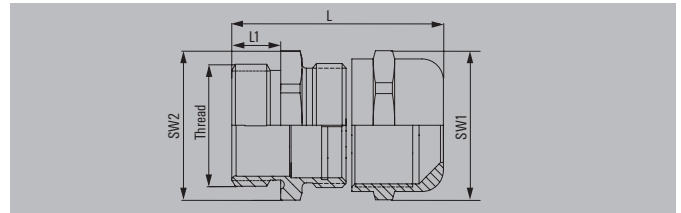
Typ metric	Thread	KB	Shield Ø	L/L1	SW	TRQ CN min. / max.	TRQ B0 min. / max.	Qty.	Order No.
VG M12 - MS 1/EMV	M 12 / 1.5	3-6.5	3.00-6.50	28.5 / 6	14	6.00 / 8.00	8.00 / 10.00	50	1909490000
VG M16 - MS 1/EMV	M 16 / 1.5	4.5-10	4.00-10.00	37.3 / 7	20	5.00 / 7.00	8.00 / 10.00	50	1909500000
VG M20 - MS 1/EMV	M 20 / 1.5	6-12	5.00-12.00	38.8 / 8	22	8.00 / 10.00	12.00 / 15.00	50	1909510000
VG M25 - MS 1/EMV	M 25 / 1.5	11-17	10.00-17.00	42 / 8	27	6.00 / 8.00	9.00 / 12.00	25	1909520000
VG M32 - MS 1/EMV	M 32 / 1.5	15-21	13.50-21.00	45 / 8	34	6.00 / 10.00	9.00 / 15.00	20	1909530000
VG M40 - MS 1/EMV	M 40 / 1.5	19-28	17.00-28.00	55.1 / 9	43	7.00 / 10.00	10.00 / 15.00	10	1909540000
VG M50 - MS 1/EMV	M 50 / 1.5	27-38	25.00-38.00	62.2 / 9	58	20.00 / 30.00	30.00 / 45.00	10	1909550000
VG M63 - MS 1/EMV	M 63 / 1.5	34-44	31.00-44.00	71.5 / 14	64	23.00 / 28.00	30.00 / 40.00	5	1909560000

Note Further versions on request

Cable glands - Stainless steel - IP 68



Stainless steel cable glands for standard industrial applications that require a high degree of protection (IP 68). These cable glands - with their resistance to impact and sea water - are also suitable for use in applications under extreme environmental conditions.



Technical data

Material	Stainless steel 1.4305 (303)
O-Ring / Seal insert	NBR / CR
Temperature range	-40 °C...100 °C
Protection degree	IP 69K, IP 68 - 5 bar (30 min.)

Note

Ordering data

Typ metric	Thread	KB	L/L1	SW1/SW2	TRQ CN min. / max.	TRQ B0 min. / max.	Qty.	Order No.
VGM12-SS 68 KB 3-6.5	M 12 / 1.5	3-6.5	28 / 6	14 / 14	5.00 / 7.00	10.00 / 8.00	50	1009840000
VGM16-SS 68 KB 4-8	M 16 / 1.5	4-8	33 / 7	17 / 19	8.00 / 10.00	15.00 / 12.00	50	1009850000
VGM20-SS 68 KB 6-12	M 20 / 1.5	6-12	38 / 8	22 / 22	12.00 / 15.00	22.00 / 16.00	50	1009860000
VGM25-SS 68 KB 10-14	M 25 / 1.5	10-14	42 / 8	24 / 27	15.00 / 20.00	30.00 / 22.00	25	1009870000
VGM32-SS 68 KB 13-18	M 32 / 1.5	13-18	48 / 9	30 / 36	28.00 / 35.00	50.00 / 40.00	20	1009880000
VGM40-SS 68 KB 18-25	M 40 / 1.5	18-25	53 / 9	41 / 46	30.00 / 40.00	60.00 / 45.00	20	1009890000
VGM50-SS 68 KB 22-32	M 50 / 1.5	22-32	57 / 9	50 / 55	35.00 / 45.00	60.00 / 50.00	12	1009900000
VGM63-SS 68 KB 34-44	M 63 / 1.5	34-44	65 / 14	65 / 70	45.00 / 55.00	70.00 / 60.00	10	1009910000
PG								
VG 7-SS 68 KB 3-6.5	PG 7	3-6.5	28 / 6	14 / 14	5.00 / 7.00	10.00 / 8.00	50	1009740000
VG 9-SS 68 KB 4-8	PG 9	4-8	28 / 6	17 / 17	8.00 / 10.00	15.00 / 12.00	50	1009750000
VG 11-SS 68 KB 5-10	PG 11	5-10	31 / 6	22 / 22	10.00 / 13.00	20.00 / 15.00	50	1009760000
VG 16-SS 68 KB 10-14	PG 16	10-14	34 / 6.5	24 / 24	15.00 / 20.00	30.00 / 22.00	25	1009780000
VG 21-SS 68 KB 13-18	PG 21	13-18	39 / 7.5	30 / 30	28.00 / 35.00	50.00 / 40.00	25	1009790000
VG 29-SS 68 KB 18-25	PG 29	18-25	47 / 8	41 / 41	30.00 / 40.00	60.00 / 45.00	20	1009800000
VG 36-SS 68 KB 22-32	PG 36	22-32	57 / 9	50 / 50	35.00 / 45.00	60.00 / 50.00	15	1009810000
VG 42-SS 68 KB 30-38	PG 42	30-38	60 / 12	60 / 60	40.00 / 50.00	70.00 / 55.00	12	1009820000
VG 48-SS 68 KB 34-44	PG 48	34-44	63 / 14	65 / 65	45.00 / 55.00	70.00 / 60.00	10	1009830000

Note

1.4404 (316L) on request

Overview: Klippon® cable glands and selection tool

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	C.30
KDSW	YES	YES	YES	Steel wire	Ex d / Ex e	IP 66, IP 68	C.34
KDSX	YES	YES	NO	Braided	Ex d / Ex e	IP 66, IP 68	C.40
KUB	YES	Compound	NO	Universal	Ex d	IP 68	C.44
KSG	YES	NO	NO	No	Ex d / Ex e	IP 66, IP 68	C.42

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. Weidmüller takes no responsibility for any damage, injury 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.

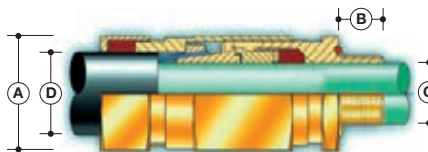
Klippon® KDSU Cable Glands

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 IP 68 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.

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 C.27 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]					
							Standard [f] = 2		Reduced [f] = 1			
					Min	Max	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.

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 IP 66 and IP 68 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.

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 C.27 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]					
							Standard [f] = 2		Reduced [f] = 1			
Min	Max	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 sizes 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.

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.

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 C.27 Selection Guide Klippon® Cable Glands to determine the suitable order number							

Dimensions

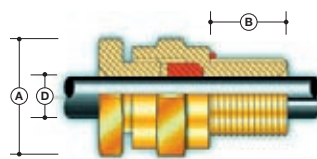
Gland Size [ggg]	Entry thread [a]	Entry thread Length [B]	Max Outer Diameter [A]	Max Length	Gland Seal Range						Armour Acceptance Range	Shroud Size
					Cable Inner Sheath [C]		Cable Outer Sheath [D]					
							Standard [f] = 2		Reduced [f] = 1			
					Min	Max	Min	Max	Min	Max		
G16	M20	16	26.5	58.0	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.

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 IP 66 and IP 68 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.

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 C.27 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
G85	M85	25	115.2	50	69.1	78.0	L104
G90	M90	25	125.7	50	74.1	84.0	L114
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.

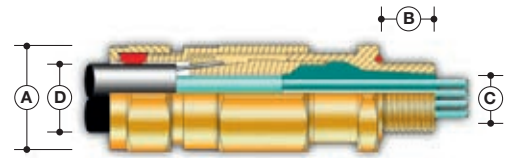
Klippon® KUB Cable Glands

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.

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 C.27 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]					
					Standard [f] = 2		Reduced [f] = 1						
X	Y	Z	Min	Max	Min	Max							
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
- 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

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, 0 = 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]

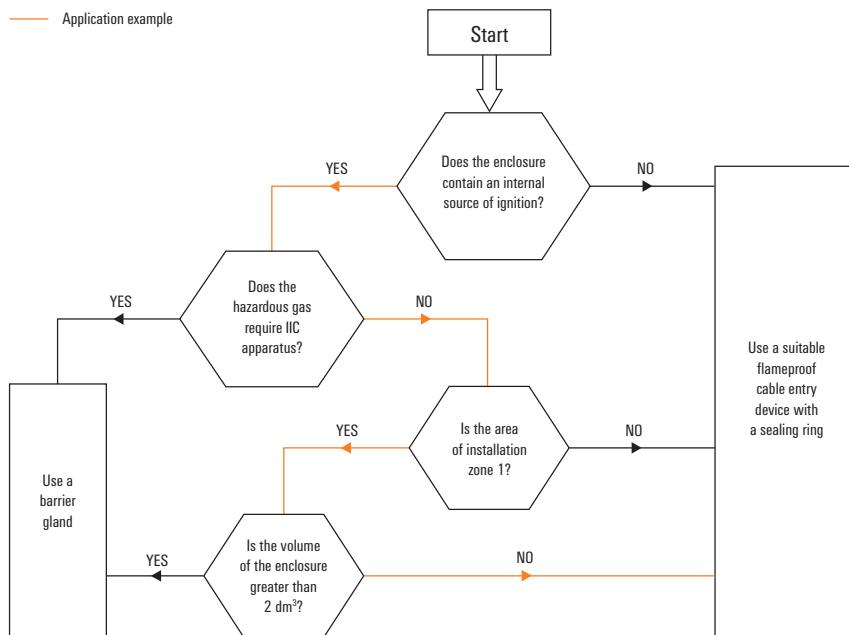
Order key	[Type]	[a]	[b]	[c]	[d]	[e]	[f]	[ggg]
Example Article Description								

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 orange 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

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]						
						Standard [f]=2		Reduced [f]=1				
						Min	Max	Min	Max	Min		
[ggg]		[B]	[A]		Min	Max	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
All 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 (brown marked) can be determined.

Extract from table KDSU "Nickel-plated brass gland with silicone sealing" on page C.33

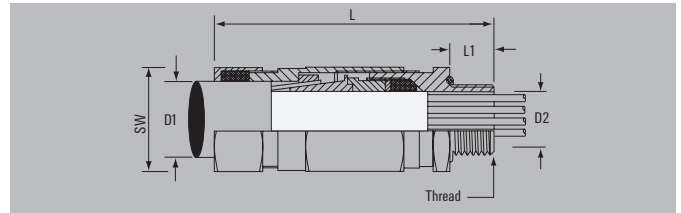
Order No.	Description	[Type]	[a]	[b]	[c]	[d]	[e]	[f]	[ggg]	Qty.
0930001221	KDSU M20 BS 0 NI 1 G16	KDSU	M20	B	S	0	NI	1	G16	20
0930001222	KDSU M20 BS 0 NI 2 G16	KDSU	M20	B	S	0	NI	2	G16	20
0930011223	KDSU M20 BS 0 NI 1 G20S	KDSU	M20	B	S	0	NI	1	G20S	20
0930011224	KDSU M20 BS 0 NI 2 G20S	KDSU	M20	B	S	0	NI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

Cable glands for Ex applications - Brass

Klippon® cable glands - Brass - Ex e, Ex d, IP 68 for armoured and non-armoured cables



All-purpose cable gland for cables and lines with single-wire armouring, metal-foil armouring and braided armouring. Non-armoured cables and lines can also be connected.



Technical data

Material	Brass
O-Ring / Seal insert	NBR / CR
Temperature range	-20 °C...85 °C
Degree of protection	IP 68 - 2.5 bar
Water depth	25 m (30 Min.)
Type of armouring	Single-wire armouring, Metal foil armouring, Braided armouring
Approval	ATEX II 2 GD, Ex d IIC / Ex e II / Ex tD A21 IP68, IECEx Ex d IIC / Ex e II

Note

Ordering data

Type	Thread	D1 outer cable Ø	D2 inner cable Ø	Cable armour	L/L1	SW	MODR	SUHB	Qty.	Order No.
metric, brass										
KDSU M20 BN 0 SC 1 G16	M 20 / 1.5	6.70-10.30	3.40-8.40	0.15-1.25	78 / 16	24	32.5	L24	20	1076120000
KDSU M20 BN 0 SC 2 G16	M 20 / 1.5	9.00-13.50	3.40-8.40	0.15-1.25	78 / 16	24	32.5	L24	20	1909260000
KDSU M20 BN 0 SC 1 G20S	M 20 / 1.5	9.40-12.50	7.20-11.70	0.15-1.25	78 / 16	24	32.5	L24	20	1076130000
KDSU M20 BN 0 SC 2 G20S	M 20 / 1.5	11.50-16.00	7.20-11.70	0.15-1.25	78 / 16	24	32.5	L24	20	1909290000
KDSU M20 BN 0 SC 1 G20	M 20 / 1.5	12.00-17.60	9.40-14.00	0.15-1.25	78 / 16	30	32.5	EL30	20	1076140000
KDSU M20 BN 0 SC 2 G20	M 20 / 1.5	15.50-21.10	9.40-14.00	0.15-1.25	78 / 16	30	32.5	EL30	20	1909300000
KDSU M25 BN 0 SC 1 G25	M 25 / 1.5	16.80-23.90	13.50-20.00	0.15-1.6	90 / 16	38	50	EL38	20	1076150000
KDSU M25 BN 0 SC 2 G25	M 25 / 1.5	20.30-27.40	13.50-20.00	0.15-1.6	90 / 16	38	50	EL38	20	1909310000
KDSU M32 BN 0 SC 1 G32	M 32 / 1.5	23.20-30.50	19.50-26.30	0.15-2	105 / 16	46	80	EL46	10	1076160000
KDSU M32 BN 0 SC 2 G32	M 32 / 1.5	26.70-34.00	19.50-26.30	0.15-2	105 / 16	46	80	EL46	10	1909320000
KDSU M40 BN 0 SC 1 G40	M 40 / 1.5	28.60-36.20	23.00-32.20	0.2-2	113 / 16	55	80	EL55	10	1076170000
KDSU M40 BN 0 SC 2 G40	M 40 / 1.5	33.00-40.60	23.00-32.20	0.2-2	113 / 16	55	80	EL55	10	1909330000
KDSU M50 BN 0 SC 1 G50S	M 50 / 1.5	34.80-42.40	28.10-38.20	0.3-2.5	125 / 16	65	100	EL65	1	1076180000
KDSU M50 BN 0 SC 2 G50S	M 50 / 1.5	39.40-46.70	28.10-38.20	0.3-2.5	125 / 16	65	100	EL65	1	1909340000
KDSU M50 BN 0 SC 1 G50	M 50 / 1.5	41.10-48.50	33.10-44.10	0.3-2.5	125 / 16	65	100	EL65	1	1076190000
KDSU M50 BN 0 SC 2 G50	M 50 / 1.5	45.70-53.20	33.10-44.10	0.3-2.5	125 / 16	65	100	EL65	1	1909350000
KDSU M63 BN 0 SC 1 G63S	M 63 / 1.5	47.50-54.80	39.20-50.10	0.3-2.5	125 / 19	80	160	EL80	1	1076200000
KDSU M63 BN 0 SC 2 G63S	M 63 / 1.5	52.10-59.50	39.20-50.10	0.3-2.5	125 / 19	80	160	EL80	1	1909360000
KDSU M63 BN 0 SC 1 G63	M 63 / 1.5	53.80-61.20	46.70-56.00	0.3-2.5	125 / 19	80	160	EL80	1	1076210000
KDSU M63 BN 0 SC 2 G63	M 63 / 1.5	58.40-65.80	46.70-56.00	0.3-2.5	125 / 19	80	160	EL80	1	1909370000
KDSU M75 BN 0 SC 1 G75S	M 75 / 1.5	60.20-68.00	52.10-62.00	0.3-2.5	131 / 19	90	200	EL90	1	1076220000
KDSU M75 BN 0 SC 2 G75S	M 75 / 1.5	64.80-72.20	52.10-62.00	0.3-2.5	131 / 19	90	200	EL90	1	1076230000
KDSU M75 BN 0 SC 1 G75	M 75 / 1.5	66.50-73.40	58.00-68.00	0.3-2.5	131 / 19	90	200	EL90	1	1076240000
KDSU M75 BN 0 SC 2 G75	M 75 / 1.5	71.10-78.00	58.00-68.00	0.3-2.5	131 / 19	90	200	EL90	1	1076260000

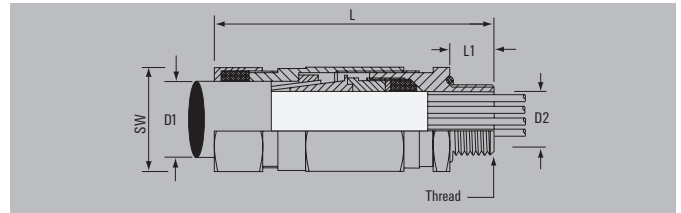
Note

- All cable glands have a thread pitch of 1.5 mm.
- In the case of Ex d applications, the inner threads used for cable glands must meet the requirements of section 5.3 of EN/IEC 60079-1. In the screwed in position, at least 5 threads must be engaged.
- If the cable glands are installed in non-metallic Ex e connection equipment, these must be connected to the protective earth of the system.
- The connection cable must be laid securely and inflexibly to rule out tensile stress.

Klippon® cable glands - Brass - Ex e, Ex d, IP 68 for armoured and non-armoured cables



All-purpose cable gland for cables and lines with single-wire armouring, metal-foil armouring and braided armouring. Non-armoured cables and lines can also be connected.



Technical data

Material	Brass, nickel-plated
O-Ring / Seal insert	NBR / CR
Temperature range	-20 °C...85 °C
Degree of protection	IP 68 - 2.5 bar
Water depth	25 m (30 Min.)
Type of armouring	Single-wire armouring, Metal foil armouring, Braided armouring
Approval	ATEX II 2 GD, Ex d IIC / Ex e II / Ex tD A21 IP68, IECEx Ex d IIC / Ex e II

Note

Ordering data

Typ	Thread	D1 outer cable Ø	D2 inner cable Ø	Cable armour	L/L1	SW	MODR	SUHB	Qty.	Order No.
metric, nickel-plated brass										
KDSU M20 BN 0 NI 1 G16	M 20 / 1.5	6.70-10.30	3.40-8.40	0.15-1.25	78 / 16	24	32.5	L24	20	1083280000
KDSU M20 BN 0 NI 2 G16	M 20 / 1.5	9.00-13.50	3.40-8.40	0.15-1.25	78 / 16	24	32.5	L24	20	1911380000
KDSU M20 BN 0 NI 1 G20S	M 20 / 1.5	9.40-12.50	7.20-11.70	0.15-1.25	78 / 16	24	32.5	L24	20	1083290000
KDSU M20 BN 0 NI 2 G20S	M 20 / 1.5	11.50-16.00	7.20-11.70	0.15-1.25	78 / 16	24	32.5	L24	20	1911390000
KDSU M20 BN 0 NI 1 G20	M 20 / 1.5	12.00-17.60	9.40-14.00	0.15-1.25	78 / 16	30	32.5	EL30	20	1083320000
KDSU M20 BN 0 NI 2 G20	M 20 / 1.5	15.50-21.10	9.40-14.00	0.15-1.25	78 / 16	30	32.5	EL30	20	1911400000
KDSU M25 BN 0 NI 1 G25	M 25 / 1.5	16.80-23.90	13.50-20.00	0.15-1.6	90 / 16	38	50	EL38	20	1083330000
KDSU M25 BN 0 NI 2 G25	M 25 / 1.5	20.30-27.40	13.50-20.00	0.15-1.6	90 / 16	38	50	EL38	20	1911420000
KDSU M32 BN 0 NI 1 G32	M 32 / 1.5	23.20-30.50	19.50-26.30	0.15-2	105 / 16	46	80	EL46	10	1083340000
KDSU M32 BN 0 NI 2 G32	M 32 / 1.5	26.70-34.00	19.50-26.30	0.15-2	105 / 16	46	80	EL46	10	1911430000
KDSU M40 BN 0 NI 1 G40	M 40 / 1.5	28.60-36.20	23.00-32.20	0.2-2	113 / 16	55	80	EL55	10	1083350000
KDSU M40 BN 0 NI 2 G40	M 40 / 1.5	33.00-40.60	23.00-32.20	0.2-2	113 / 16	55	80	EL55	10	1911440000
KDSU M50 BN 0 NI 1 G50	M 50 / 1.5	41.10-48.50	33.10-44.10	0.3-2.5	125 / 16	65	100	EL65	1	1083370000
KDSU M50 BN 0 NI 2 G50	M 50 / 1.5	45.70-53.20	33.10-44.10	0.3-2.5	125 / 16	65	100	EL65	1	1911460000
KDSU M50 BN 0 NI 1 G50S	M 50 / 1.5	34.80-42.40	28.10-38.20	0.3-2.5	125 / 16	65	100	EL65	1	1083360000
KDSU M50 BN 0 NI 2 G50S	M 50 / 1.5	39.40-46.70	28.10-38.20	0.3-2.5	125 / 16	65	100	EL65	1	1911450000
KDSU M63 BN 0 NI 1 G63S	M 63 / 1.5	47.50-54.80	39.20-50.10	0.3-2.5	125 / 19	80	160	EL80	1	1083380000
KDSU M63 BN 0 NI 2 G63S	M 63 / 1.5	52.10-59.50	39.20-50.10	0.3-2.5	125 / 19	80	160	EL80	1	1911480000
KDSU M63 BN 0 NI 1 G63	M 50 / 1.5	53.80-61.20	46.70-56.00	0.3-2.5	125 / 16	80	160	EL80	1	1083390000
KDSU M63 BN 0 NI 2 G63	M 63 / 1.5	58.40-65.80	46.70-56.00	0.3-2.5	125 / 19	80	160	EL80	1	1911490000
KDSU M75 BN 0 NI 1 G75S	M 75 / 1.5	60.20-68.00	52.10-62.00	0.3-2.5	131 / 19	90	200	EL90	1	1083400000
KDSU M75 BN 0 NI 2 G75S	M 75 / 1.5	64.80-72.20	52.10-62.00	0.3-2.5	131 / 19	90	200	EL90	1	1083410000
KDSU M75 BN 0 NI 1 G75	M 75 / 1.5	66.50-73.40	58.00-68.00	0.3-2.5	131 / 19	90	200	EL90	1	1083420000
KDSU M75 BN 0 NI 2 G75	M 75 / 1.5	71.10-78.00	58.00-68.00	0.3-2.5	131 / 19	90	200	EL90	1	1083430000

Note

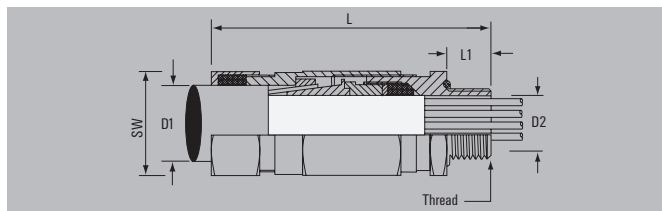
- All cable glands have a thread pitch of 1.5 mm.
- In the case of Ex d applications, the inner threads used for cable glands must meet the requirements of section 5.3 of EN/IEC 60079-1. In the screwed in position, at least 5 threads must be engaged.
- If the cable glands are installed in non-metallic Ex e connection equipment, these must be connected to the protective earth of the system.
- The connection cable must be laid securely and inflexibly to rule out tensile stress.

Cable glands for Ex applications - Brass

Klippon® cable glands - Brass - Ex e, Ex d, IP 68 for armoured and non-armoured cables



All-purpose cable gland for cables and lines with single-wire armouring, metal-foil armouring and braided armouring. Non-armoured cables and lines can also be connected.



Technical data

Material	Brass
O-Ring / Seal insert	Silicone / Silicone
Temperature range	-60 °C...180 °C
Degree of protection	IP 68 - 2.5 bar
Water depth	25 m (30 Min.)
Type of armouring	Single-wire armouring, Metal foil armouring, Braided armouring
Approval	ATEX II 2 GD, Ex d IIC / Ex e II / Ex tD A21 IP68, IECEx Ex d IIC / Ex e II

Note

Ordering data

Typ metric, brass	Thread	D1 outer cable Ø	D2 inner cable Ø	Cable armour	L/L1	SW	MODR	SUHB	Qty.	Order No.
KDSU M20 BS 0 SC 1 G16	M 20 / 1.5	6.70-10.30	3.40-8.40	0.15-1.25	78 / 16	24	32.5	L24	20	0930001211
KDSU M20 BS 0 SC 2 G16	M 20 / 1.5	9.00-13.50	3.40-8.40	0.15-1.25	78 / 16	24	32.5	L24	20	0930001212
KDSU M20 BS 0 SC 1 G20S	M 20 / 1.5	9.40-12.50	7.20-11.70	0.15-1.25	78 / 16	24	32.5	L24	20	0930011213
KDSU M20 BS 0 SC 2 G20S	M 20 / 1.5	11.50-16.00	7.20-11.70	0.15-1.25	78 / 16	24	32.5	L24	20	0930011214
KDSU M20 BS 0 SC 1 G20	M 20 / 1.5	12.00-17.60	9.40-14.00	0.15-1.25	78 / 16	30	32.5	EL30	20	0930021211
KDSU M20 BS 0 SC 2 G20	M 20 / 1.5	15.50-21.10	9.40-14.00	0.15-1.25	78 / 16	30	32.5	EL30	20	0930021212
KDSU M25 BS 0 SC 1 G25	M 25 / 1.5	16.80-23.90	13.50-20.00	0.15-1.6	90 / 16	38	50	EL38	20	0930031211
KDSU M25 BS 0 SC 2 G25	M 25 / 1.5	20.30-27.40	13.50-20.00	0.15-1.6	90 / 16	38	50	EL38	20	0930031212
KDSU M32 BS 0 SC 1 G32	M 32 / 1.5	23.20-30.50	19.50-26.30	0.15-2	105 / 16	46	80	EL46	10	0930041211
KDSU M32 BS 0 SC 2 G32	M 32 / 1.5	26.70-34.00	19.50-26.30	0.15-2	105 / 16	46	80	EL46	10	0930041212
KDSU M40 BS 0 SC 1 G40	M 40 / 1.5	28.60-36.20	23.00-32.20	0.2-2	113 / 16	55	80	EL55	10	1136870000
KDSU M40 BS 0 SC 2 G40	M 40 / 1.5	33.00-40.60	23.00-32.20	0.2-2	113 / 16	55	80	EL55	10	0930051212
KDSU M50 BS 0 SC 1 G50S	M 50 / 1.5	34.80-42.20	28.10-38.20	0.3-2.5	125 / 16	65	100	EL65	1	0930061213
KDSU M50 BS 0 SC 2 G50S	M 50 / 1.5	39.40-46.70	28.10-38.20	0.3-2.5	125 / 16	65	100	EL65	1	1136880000
KDSU M50 BS 0 SC 1 G50	M 50 / 1.5	41.10-48.50	33.10-44.10	0.3-2.5	125 / 16	65	100	EL65	1	1136890000
KDSU M50 BS 0 SC 2 G50	M 50 / 1.5	45.70-53.20	33.10-44.10	0.3-2.5	125 / 16	65	100	EL65	1	1136910000
KDSU M63 BS 0 SC 1 G63S	M 63 / 1.5	47.50-54.80	39.20-50.10	0.3-2.5	125 / 19	80	160	EL80	1	1136920000
KDSU M63 BS 0 SC 2 G63S	M 63 / 1.5	52.10-59.50	39.20-50.10	0.3-2.5	125 / 19	80	160	EL80	1	1136930000
KDSU M63 BS 0 SC 1 G63	M 63 / 1.5	53.80-61.20	46.70-56.00	0.3-2.5	125 / 19	80	160	EL80	1	1136940000
KDSU M63 BS 0 SC 2 G63	M 63 / 1.5	58.40-65.80	46.70-56.00	0.3-2.5	125 / 19	80	160	EL80	1	1136950000
KDSU M75 BS 0 SC 1 G75	M 75 / 1.5	66.50-73.40	58.00-68.00	0.3-2.5	131 / 19	90	200	EL90	1	1136980000
KDSU M75 BS 0 SC 2 G75	M 75 / 1.5	71.10-78.00	58.00-68.00	0.3-2.5	131 / 19	90	200	EL90	1	0930111212
KDSU M75 BS 0 SC 1 G75S	M 75 / 1.5	60.20-68.00	52.10-62.00	0.3-2.5	131 / 19	90	200	EL90	1	1136960000
KDSU M75 BS 0 SC 2 G75S	M 75 / 1.5	64.80-72.20	52.10-62.00	0.3-2.5	131 / 19	90	200	EL90	1	1136970000

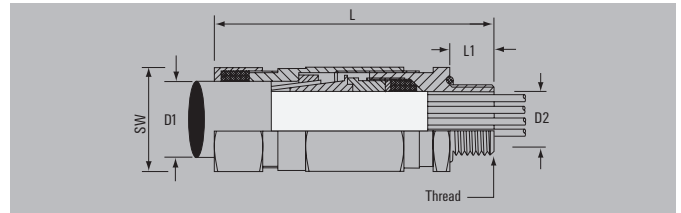
Note

- All cable glands have a thread pitch of 1.5 mm.
- In the case of Ex d applications, the inner threads used for cable glands must meet the requirements of section 5.3 of EN/IEC 60079-1. In the screwed in position, at least 5 threads must be engaged.
- If the cable glands are installed in non-metallic Ex e connection equipment, these must be connected to the protective earth of the system.
- The connection cable must be laid securely and inflexibly to rule out tensile stress.

Klippon® cable glands - Brass - Ex e, Ex d, IP 68 for armoured and non-armoured cables



All-purpose cable gland for cables and lines with single-wire armouring, metal-foil armouring and braided armouring. Non-armoured cables and lines can also be connected.



Technical data

Material	Brass, nickel-plated
O-Ring / Seal insert	Silicone / Silicone
Temperature range	-60 °C...180 °C
Degree of protection	IP 68 - 2.5 bar
Water depth	25 m (30 Min.)
Type of armouring	Single-wire armouring, Metal foil armouring, Braided armouring
Approval	ATEX II 2 GD, Ex d IIC / Ex e II / Ex tD A21 IP68, IECEx Ex d IIC / Ex e II

Note

Ordering data

Typ	Thread	D1 outer cable Ø	D2 inner cable Ø	Cable armour	L/L1	SW	MODR	SUHB	Qty.	Order No.
metric, nickel-plated brass										
KDSU M20 BS 0 NI 1 G16	M 20 / 1.5	6.70-10.30	3.40-8.40	0.15-1.25	78 / 16	24	32.5	L24	20	0930001221
KDSU M20 BS 0 NI 2 G16	M 20 / 1.5	9.00-13.50	3.40-8.40	0.15-1.25	78 / 16	24	32.5	L24	20	0930001222
KDSU M20 BS 0 NI 1 G20	M 20 / 1.5	12.00-17.60	9.40-14.00	0.15-1.25	78 / 16	30	32.5	EL30	20	0930021221
KDSU M20 BS 0 NI 2 G20	M 20 / 1.5	15.50-21.10	9.40-14.00	0.15-1.25	78 / 16	30	32.5	EL30	20	0930021222
KDSU M20 BS 0 NI 1 G20S	M 20 / 1.5	9.40-12.50	7.20-11.70	0.15-1.25	78 / 16	24	32.5	L24	20	0930011223
KDSU M20 BS 0 NI 2 G20S	M 20 / 1.5	11.50-16.00	7.20-11.70	0.15-1.25	78 / 16	24	32.5	L24	20	0930011224
KDSU M25 BS 0 NI 1 G25	M 25 / 1.5	16.80-23.90	13.50-20.00	0.15-1.6	90 / 16	38	50	EL38	20	0930031221
KDSU M25 BS 0 NI 2 G25	M 25 / 1.5	20.30-27.40	13.50-20.00	0.15-1.6	90 / 16	38	50	EL38	20	0930031222
KDSU M32 BS 0 NI 1 G32	M 32 / 1.5	23.20-30.50	19.50-26.30	0.15-2	105 / 16	46	80	EL46	10	0930041221
KDSU M32 BS 0 NI 2 G32	M 32 / 1.5	26.70-34.00	19.50-26.30	0.15-2	105 / 16	46	80	EL46	10	0930041222
KDSU M40 BS 0 NI 1 G40	M 40 / 1.5	28.60-36.20	23.00-32.20	0.2-2	113 / 16	55	80	EL55	10	1136900000
KDSU M40 BS 0 NI 2 G40	M 40 / 1.5	33.00-40.60	23.00-32.20	0.2-2	113 / 16	55	80	EL55	10	0930051222
KDSU M50 BS 0 NI 1 G50	M 50 / 1.5	41.10-48.50	33.10-44.10	0.3-2.5	125 / 16	65	100	EL65	1	1137010000
KDSU M50 BS 0 NI 2 G50	M 50 / 1.5	45.70-53.20	33.10-44.10	0.3-2.5	125 / 16	65	100	EL65	1	1137020000
KDSU M50 BS 0 NI 1 G50S	M 50 / 1.5	34.80-42.40	28.10-38.20	0.3-2.5	125 / 16	65	100	EL65	1	1137000000
KDSU M50 BS 0 NI 2 G50S	M 50 / 1.5	39.40-46.70	28.10-38.20	0.3-2.5	125 / 16	65	100	EL65	1	0930061224
KDSU M63 BS 0 NI 1 G63	M 63 / 1.5	53.80-61.20	46.70-56.00	0.3-2.5	125 / 19	80	160	EL80	1	1137050000
KDSU M63 BS 0 NI 2 G63	M 63 / 1.5	58.40-65.80	46.70-56.00	0.3-2.5	125 / 19	80	160	EL80	1	0930091222
KDSU M63 BS 0 NI 1 G63S	M 63 / 1.5	47.50-54.80	39.20-50.10	0.3-2.5	125 / 19	80	160	EL80	1	1137030000
KDSU M63 BS 0 NI 2 G63S	M 63 / 1.5	52.10-59.50	39.20-50.10	0.3-2.5	125 / 19	80	160	EL80	1	1137040000
KDSU M75 BS 0 NI 1 G75	M 75 / 1.5	66.50-73.40	58.00-68.00	0.3-2.5	131 / 19	90	200	EL90	1	1137080000
KDSU M75 BS 0 NI 2 G75	M 75 / 1.5	71.10-78.00	58.00-68.00	0.3-2.5	131 / 19	90	200	EL90	1	1137090000
KDSU M75 BS 0 NI 1 G75S	M 75 / 1.5	60.20-68.00	52.10-62.00	0.3-2.5	131 / 19	90	200	EL90	1	1137060000
KDSU M75 BS 0 NI 2 G75S	M 75 / 1.5	64.80-72.20	52.10-62.00	0.3-2.5	131 / 19	90	200	EL90	1	1137070000

Note

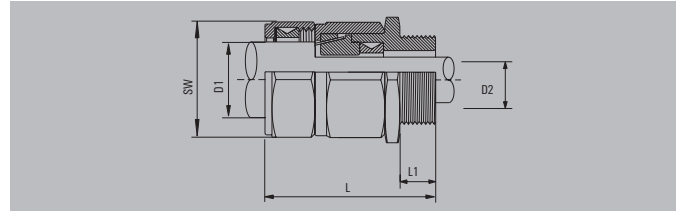
- All cable glands have a thread pitch of 1.5 mm.
- In the case of Ex d applications, the inner threads used for cable glands must meet the requirements of section 5.3 of EN/IEC 60079-1. In the screwed in position, at least 5 threads must be engaged.
- If the cable glands are installed in non-metallic Ex e connection equipment, these must be connected to the protective earth of the system.
- The connection cable must be laid securely and inflexibly to rule out tensile stress.

Cable glands for Ex applications - Brass

Klippon® cable glands - Brass - Ex e, Ex d, IP 66 / IP 68 for armoured cables



Cable gland for cables and lines with single-wire armouring.



Technical data

Material	Brass
Seal insert	CR
Temperature range	-20 °C...85 °C
Protection degree	IP 54
Protection degree with GWDR	IP 66, IP 68 - 2.5 bar
Water depth	25 m (30 Min.)
Type of armouring	Single-wire armouring
Approval	ATEX II 2 GD, Ex d IIC / Ex e II / Ex tD A21 IP68, IECEx Ex d IIC / Ex e II

Note IP protection without GWDR is IP 54. To achieve IP 66/68 protection, a nylon GWDR must be ordered separately.

Ordering data

Typ metric, brass	Thread	D1 outer cable Ø	D2 inner cable Ø	Cable armour	L/L1	SW	MODR	SUHB	Qty.	Order No.
KDSW M20 BN O SC 1 G16	M 20 / 1.5	4.90-10.00	4.00-8.40	0.9	58 / 16	24	32.5	L24	20	1074480000
KDSW M20BN O SC 2 G16	M 20 / 1.5	8.40-13.50	4.00-8.40	0.9	58 / 16	24	32.5	L24	20	1074490000
KDSW M20 BN O SC 1 G20S	M 20 / 1.5	9.40-12.50	8.00-11.70	0.9-1.25	58 / 16	30	32.5	L24	20	1074500000
KDSW M20 BN O SC 2 G20S	M 20 / 1.5	11.50-16.00	8.00-11.70	0.9-1.25	58 / 16	30	32.5	L24	20	1074510000
KDSW M20 BN O SC 1 G20	M 20 / 1.5	12.00-17.60	6.70-14.00	0.9-1.25	58 / 16	24	32.5	L30	20	1074520000
KDSW M20 BN O SC 2 G20	M 20 / 1.5	15.50-21.10	6.70-14.00	0.9-1.25	58 / 16	24	32.5	L30	20	1074530000
KDSW M25 BN O SC 1 G25	M 25 / 1.5	16.80-23.90	13.00-20.00	1.25-1.6	58 / 16	38	47.5	L38	20	1074540000
KDSW M25 BN O SC 2 G25	M 25 / 1.5	20.30-27.40	13.00-20.00	1.25-1.6	58 / 16	38	47.5	L38	20	1074550000
KDSW M32 BN O SC 1 G32	M 32 / 1.5	23.20-30.50	19.00-26.30	1.6-2	65 / 16	46	55	L46	10	1074570000
KDSW M32 BN O SC 2 G32	M 32 / 1.5	26.70-34.00	19.00-26.30	1.6-2	65 / 16	46	55	L46	10	1074580000
KDSW M40 BN O SC 1 G40	M 40 / 1.5	28.60-36.20	25.00-32.20	1.6-2	72 / 16	55	65	L55	10	1074590000
KDSW M40 BN O SC 2 G40	M 40 / 1.5	33.00-40.60	25.00-32.20	1.6-2	72 / 16	55	65	L55	10	1074610000
KDSW M50 BN O SC 1 G50S	M 50 / 1.5	34.80-42.40	31.50-38.20	2-2.5	73 / 16	65	80	L65	1	1074620000
KDSW M50 BN O SC 2 G50S	M 50 / 1.5	39.40-46.70	31.50-38.20	2-2.5	73 / 16	65	80	L65	1	1074630000
KDSW M50 BN O SC 1 G50	M 50 / 1.5	41.10-48.50	36.50-44.10	2-2.5	73 / 16	65	80	L65	1	1074640000
KDSW M50 BN O SC 2 G50	M 50 / 1.5	45.70-53.20	36.50-44.10	2-2.5	73 / 16	65	80	L65	1	1074650000
KDSW M63 BN O SC 1 G63S	M 63 / 1.5	47.50-54.80	42.50-50.10	2.5	76 / 19	80	95	L80	1	1074670000
KDSW M63 BN O SC 2 G63S	M 63 / 1.5	52.10-59.50	42.50-50.10	2.5	76 / 19	80	95	L80	1	1074710000
KDSW M63 BN O SC 1 G63	M 63 / 1.5	53.80-61.20	49.50-56.00	2.5	76 / 19	80	95	L80	1	1074730000
KDSW M63 BN O SC 2 G63	M 63 / 1.5	58.40-65.80	49.50-56.00	2.5	76 / 19	80	95	L80	1	1074750000
KDSW M75 BN O SC 1 G75S	M 75 / 1.5	60.20-68.00	54.50-62.00	2.5	82 / 19	90	110	L90	1	1074770000
KDSW M75 BN O SC 2 G75S	M 75 / 1.5	64.80-72.20	54.50-62.00	2.5	82 / 19	90	110	L90	1	1074790000
KDSW M75 BN O SC 1 G75	M 75 / 1.5	66.50-73.40	60.50-68.00	2.5	82 / 19	90	110	L90	1	1074820000
KDSW M75 BN O SC 2 G75	M 75 / 1.5	71.10-78.00	60.50-68.00	2.5	82 / 19	90	110	L90	1	1074840000

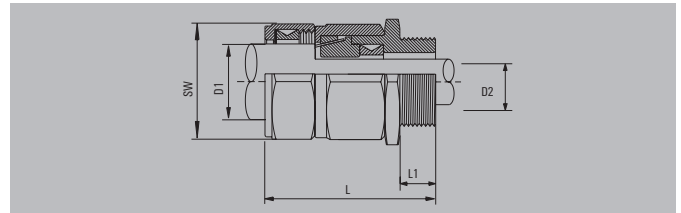
Note

- All cable glands have a thread pitch of 1.5 mm.
- In the case of Ex d applications, the inner threads used for cable glands must meet the requirements of section 5.3 of EN/IEC 60079-1. In the screwed in position, at least 5 threads must be engaged.
- If the cable glands are installed in non-metallic Ex e connection equipment, these must be connected to the protective earth of the system.
- The connection cable must be laid securely and inflexibly to rule out tensile stress.

Klippon® cable glands - Brass - Ex e, Ex d, IP 66 / IP 68 for armoured cables



Cable gland for cables and lines with single-wire armouring.



Technical data

Material	Brass, nickel-plated
Seal insert	CR
Temperature range	-20 °C...85 °C
Protection degree	IP 54
Protection degree with GWDR	IP 66, IP 68 - 2.5 bar
Water depth	25 m (30 Min.)
Type of armouring	Single-wire armouring
Approval	ATEX II 2 GD, Ex d IIC / Ex e II / Ex tD A21 IP68, IECEx Ex d IIC / Ex e II

Note IP protection without GWDR is IP 54. To achieve IP 66/68 protection, a nylon GWDR must be ordered separately.

Ordering data

Typ	Thread	D1 outer cable Ø	D2 inner cable Ø	Cable armour	L/L1	SW	MODR	SUHB	Qty.	Order No.
metric, nickel-plated brass										
KDSW M20 BN 0 NI 1 G16	M 20 / 1.5	4.90-10.00	4.00-8.40	0.9	58 / 16	24	32.5	L24	20	1075030000
KDSW M20 BN 0 NI 2 G16	M 20 / 1.5	8.40-13.50	4.00-8.40	0.9	58 / 16	24	32.5	L24	20	1075040000
KDSW M20 BN 0 NI 1 G20	M 20 / 1.5	12.00-17.60	6.70-14.00	0.9-1.25	58 / 16	30	32.5	L30	20	1075070000
KDSW M20 BN 0 NI 2 G20	M 20 / 1.5	15.50-21.10	6.70-14.00	0.9-1.25	58 / 16	24	32.5	L30	20	1075080000
KDSW M20 BN 0 NI 1 G20S	M 20 / 1.5	9.40-12.50	8.00-11.70	0.9-1.25	58 / 16	30	32.5	L24	20	1075050000
KDSW M20 BN 0 NI 2 G20S	M 20 / 1.5	11.50-16.00	8.00-11.70	0.9-1.25	58 / 16	24	32.5	L24	20	1075060000
KDSW M25 BN 0 NI 1 G25	M 25 / 1.5	16.80-23.90	13.00-20.00	1.25-1.6	58 / 16	38	47.5	L38	20	1075090000
KDSW M25 BN 0 NI 2 G25	M 25 / 1.5	20.30-27.40	13.00-20.00	1.25-1.6	58 / 16	38	47.5	L38	20	1075110000
KDSW M32 BN 0 NI 1 G32	M 32 / 1.5	23.20-30.50	19.00-26.30	1.6-2	65 / 16	46	55	L46	10	1075120000
KDSW M32 BN 0 NI 2 G32	M 32 / 1.5	26.70-34.00	19.00-26.30	1.6-2	65 / 16	46	55	L46	10	1075130000
KDSW M40 BN 0 NI 1 G40	M 40 / 1.5	28.60-36.20	25.00-32.20	1.6-2	72 / 16	55	65	L55	10	1075140000
KDSW M40 BN 0 NI 2 G40	M 40 / 1.5	33.00-40.60	25.00-32.20	1.6-2	72 / 16	55	65	L55	10	1075150000
KDSW M50 BN 0 NI 1 G50	M 50 / 1.5	41.10-48.50	36.50-44.10	2-2.5	73 / 16	65	80	L65	1	1075180000
KDSW M50 BN 0 NI 2 G50	M 50 / 1.5	45.70-53.20	36.50-44.10	2-2.5	73 / 16	65	80	L65	1	1075190000
KDSW M50 BN 0 NI 1 G50S	M 50 / 1.5	34.80-42.40	31.50-38.20	2-2.5	73 / 16	65	80	L65	1	1075160000
KDSW M50 BN 0 NI 2 G50S	M 50 / 1.5	39.40-46.70	31.50-38.20	2-2.5	73 / 16	65	80	L65	1	1075170000
KDSW M63 BN 0 NI 1 G63	M 63 / 1.5	53.80-61.20	49.50-56.00	2.5	76 / 19	80	95	L80	1	1075230000
KDSW M63 BN 0 NI 2 G63	M 63 / 1.5	58.40-65.80	49.50-56.00	2.5	76 / 19	80	95	L80	1	1075240000
KDSW M63 BN 0 NI 1 G63S	M 63 / 1.5	47.50-54.80	42.50-50.10	2.5	76 / 19	80	95	L80	1	1075210000
KDSW M63 BN 0 NI 2 G63S	M 63 / 1.5	52.10-59.50	42.50-50.10	2.5	76 / 19	80	95	L80	1	1075220000
KDSW M75 BN 0 NI 1 G75	M 75 / 1.5	66.50-73.40	60.50-68.00	2.5	82 / 19	90	110	L90	1	1075270000
KDSW M75 BN 0 NI 2 G75	M 75 / 1.5	71.10-78.00	60.50-68.00	2.5	82 / 19	90	110	L90	1	1075280000
KDSW M75 BN 0 NI 1 G75S	M 75 / 1.5	60.20-68.00	54.50-62.00	2.5	82 / 19	90	110	L90	1	1075250000
KDSW M75 BN 0 NI 2 G75S	M 75 / 1.5	64.80-72.20	54.50-62.00	2.5	82 / 19	90	110	L90	1	1075260000

Note

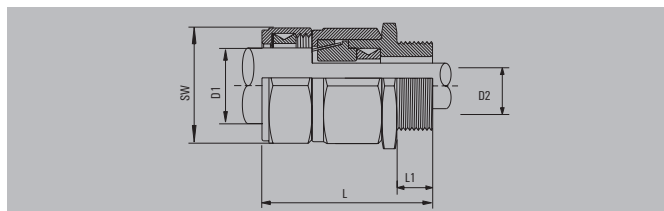
- All cable glands have a thread pitch of 1.5 mm.
- In the case of Ex d applications, the inner threads used for cable glands must meet the requirements of section 5.3 of EN/IEC 60079-1. In the screwed in position, at least 5 threads must be engaged.
- If the cable glands are installed in non-metallic Ex e connection equipment, these must be connected to the protective earth of the system.
- The connection cable must be laid securely and inflexibly to rule out tensile stress.

Cable glands for Ex applications - Brass

Klippon® cable glands - Brass - Ex e, Ex d, IP 66 / IP 68 for armoured cables



Cable gland for cables and lines with single-wire armouring.



Technical data

Material	Brass
Seal insert	Silicone
Temperature range	-60 °C...180 °C
Protection degree	IP 54
Protection degree with GWDR	IP 66, IP 68 - 2.5 bar
Water depth	25 m (30 Min.)
Type of armouring	Single-wire armouring
Approval	ATEX II 2 GD, Ex d IIC / Ex e II / Ex tD A21 IP68, IECEx Ex d IIC / Ex e II

Note IP protection without GWDR is IP 54. To achieve IP 66/68 protection, a nylon GWDR must be ordered separately.

Ordering data

Typ	Thread	D1 outer cable Ø	D2 inner cable Ø	Cable armour	L/L1	SW	MODR	SUHB	Qty.	Order No.
metric, brass										
KDSW M20 BS 0 SC 1 G16	M 20 / 1.5	4.90-10.00	4.00-8.40	0.9	58 / 16	24	32.5	L24	20	1136160000
KDSW M20 BS 0 SC 2 G16	M 20 / 1.5	8.40-13.50	4.00-8.40	0.9	58 / 16	24	32.5	L24	20	1136170000
KDSW M20 BS 0 SC 1 G20S	M 20 / 1.5	9.40-12.50	8.00-11.70	0.9-1.25	58 / 16	24	32.5	L24	20	1136180000
KDSW M20 BS 0 SC 2 G20S	M 20 / 1.5	11.50-16.00	8.00-11.70	0.9-1.25	58 / 16	24	32.5	L24	20	1136190000
KDSW M20 BS 0 SC 1 G20	M 20 / 1.5	12.00-17.60	6.70-14.00	0.9-1.25	58 / 16	30	32.5	L30	20	1136200000
KDSW M20 BS 0 SC 2 G20	M 20 / 1.5	15.50-21.10	6.70-14.00	0.9-1.25	58 / 16	30	32.5	L30	20	1136210000
KDSW M25 BS 0 SC 1 G25	M 25 / 1.5	16.80-23.90	13.00-20.00	1.25-1.6	58 / 16	38	47.5	L38	20	1136220000
KDSW M25 BS 0 SC 2 G25	M 25 / 1.5	20.30-27.40	13.00-20.00	1.25-1.6	58 / 16	38	47.5	L38	20	1136230000
KDSW M32 BS 0 SC 1 G32	M 32 / 1.5	23.20-30.50	19.00-26.30	1.6-2	65 / 16	46	55	L46	10	1136240000
KDSW M32 BS 0 SC 2 G32	M 32 / 1.5	26.70-34.00	19.00-26.30	1.6-2	65 / 16	46	55	L46	10	1136250000
KDSW M40 BS 0 SC 1 G40	M 40 / 1.5	28.60-36.20	25.00-32.20	1.6-2	72 / 16	55	65	L55	10	1136260000
KDSW M40 BS 0 SC 2 G40	M 40 / 1.5	33.00-40.60	25.00-32.20	1.6-2	72 / 16	55	65	L55	10	1136270000
KDSW M50 BS 0 SC 1 G50S	M 50 / 1.5	34.80-42.40	31.50-38.20	2-2.5	73 / 16	65	80	L65	1	1136280000
KDSW M50 BS 0 SC 2 G50S	M 50 / 1.5	39.40-46.70	31.50-38.20	2-2.5	73 / 16	65	80	L65	1	1136290000
KDSW M50 BS 0 SC 1 G50	M 50 / 1.5	41.10-48.50	36.50-44.10	2-2.5	73 / 16	65	80	L65	1	1136310000
KDSW M50 BS 0 SC 2 G50	M 50 / 1.5	45.70-53.20	36.50-44.10	2-2.5	73 / 16	65	80	L65	1	1136320000
KDSW M63 BS 0 SC 1 G63S	M 63 / 1.5	47.50-54.80	42.50-50.10	2.5	76 / 19	80	95	L80	1	1136330000
KDSW M63 BS 0 SC 2 G63S	M 63 / 1.5	52.10-59.50	42.50-50.10	2.5	76 / 19	80	95	L80	1	1136340000
KDSW M63 BS 0 SC 1 G63	M 63 / 1.5	53.80-61.20	49.50-56.00	2.5	76 / 19	80	95	L80	1	1136350000
KDSW M63 BS 0 SC 2 G63	M 63 / 1.5	58.40-65.80	49.50-56.00	2.5	76 / 19	80	95	L80	1	1136360000
KDSW M75 BS 0 SC 1 G75S	M 75 / 1.5	60.20-68.00	54.50-62.00	2.5	82 / 19	90	110	L90	1	1136370000
KDSW M75 BS 0 SC 2 G75S	M 75 / 1.5	64.80-72.20	54.50-62.00	2.5	82 / 19	90	110	L90	1	1136380000
KDSW M75 BS 0 SC 1 G75	M 75 / 1.5	66.50-73.40	60.50-68.00	2.5	82 / 19	90	110	L90	1	1136390000
KDSW M75 BS 0 SC 2 G75	M 75 / 1.5	71.10-78.00	60.50-68.00	2.5	82 / 19	90	110	L90	1	1136400000

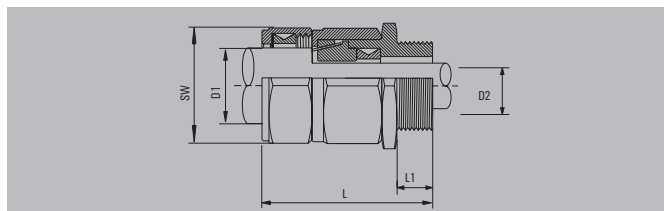
Note

- All cable glands have a thread pitch of 1.5 mm.
- In the case of Ex d applications, the inner threads used for cable glands must meet the requirements of section 5.3 of EN/IEC 60079-1. In the screwed in position, at least 5 threads must be engaged.
- If the cable glands are installed in non-metallic Ex e connection equipment, these must be connected to the protective earth of the system.
- The connection cable must be laid securely and inflexibly to rule out tensile stress.

Klippon® cable glands - Brass - Ex e, Ex d, IP 66 / IP 68 for armoured cables



Cable gland for cables and lines with single-wire armouring.



Technical data

Material	Brass, nickel-plated
Seal insert	Silicone
Temperature range	-60 °C...180 °C
Protection degree	IP 54
Protection degree with GWDR	IP 66, IP 68 - 2.5 bar
Water depth	25 m (30 Min.)
Type of armouring	Single-wire armouring
Approval	ATEX II 2 GD, Ex d IIC / Ex e II / Ex tD A21 IP68, IECEx Ex d IIC / Ex e II

Note IP protection without GWDR is IP 54. To achieve IP 66/68 protection, a nylon GWDR must be ordered separately.

Ordering data

Type	Thread	D1 outer cable Ø	D2 inner cable Ø	Cable armour	L/L1	SW	MODR	SUHB	Qty.	Order No.
metric, nickel-plated brass										
KDSW M20 BS 0 NI 1 G16	M 20 / 1.5	4.90-10.00	4.00-8.40	0.9	58 / 16	24	32.5	L24	20	1136410000
KDSW M20 BS 0 NI 2 G16	M 20 / 1.5	8.40-13.50	4.00-8.40	0.9	58 / 16	24	32.5	L24	20	1136420000
KDSW M20 BS 0 NI 1 G20	M 20 / 1.5	12.00-17.60	6.70-14.00	0.9-1.25	58 / 16	30	32.5	L30	20	1136450000
KDSW M20 BS 0 NI 2 G20	M 20 / 1.5	15.50-21.10	6.70-14.00	0.9-1.25	58 / 16	24	32.5	L30	20	1136460000
KDSW M20 BS 0 NI 1 G20S	M 20 / 1.5	9.40-12.50	8.00-11.70	0.9-1.25	58 / 16	30	32.5	L24	20	1136430000
KDSW M20 BS 0 NI 2 G20S	M 20 / 1.5	11.50-16.00	8.00-11.70	0.9-1.25	58 / 16	24	32.5	L24	20	1136440000
KDSW M25 BS 0 NI 1 G25	M 25 / 1.5	16.80-23.90	13.00-20.00	1.25-1.6	58 / 16	38	47.5	L38	20	1136470000
KDSW M25 BS 0 NI 2 G25	M 25 / 1.5	20.30-27.40	13.00-20.00	1.25-1.6	58 / 16	38	47.5	L38	20	1136480000
KDSW M32 BS 0 NI 1 G32	M 32 / 1.5	23.20-30.50	19.00-26.30	1.6-2	65 / 16	46	55	L46	10	1136490000
KDSW M32 BS 0 NI 2 G32	M 32 / 1.5	26.70-34.00	19.00-26.30	1.6-2	65 / 16	46	55	L46	10	1136510000
KDSW M40 BS 0 NI 1 G40	M 40 / 1.5	28.60-36.20	25.00-32.20	1.6-2	72 / 16	55	65	L55	10	1136520000
KDSW M40 BS 0 NI 2 G40	M 40 / 1.5	33.00-40.60	25.00-32.20	1.6-2	72 / 16	55	65	L55	10	1136530000
KDSW M50 BS 0 NI 1 G50	M 50 / 1.5	41.10-48.50	36.50-44.10	2-2.5	73 / 16	65	80	L65	1	1136560000
KDSW M50 BS 0 NI 2 G50	M 50 / 1.5	45.70-53.20	36.50-44.10	2-2.5	73 / 16	65	80	L65	1	1136570000
KDSW M50 BS 0 NI 1 G50S	M 50 / 1.5	34.80-42.40	31.50-38.20	2-2.5	73 / 16	65	80	L65	1	1136540000
KDSW M50 BS 0 NI 2 G50S	M 50 / 1.5	39.40-46.70	31.50-38.20	2-2.5	73 / 16	65	80	L65	1	1136550000
KDSW M63 BS 0 NI 1 G63	M 63 / 1.5	53.80-61.20	49.50-56.00	2.5	76 / 19	80	95	L80	1	1136600000
KDSW M63 BS 0 NI 2 G63	M 63 / 1.5	58.40-65.80	49.50-56.00	2.5	76 / 19	80	95	L80	1	1136610000
KDSW M63 BS 0 NI 1 G63S	M 63 / 1.5	47.50-54.80	42.50-50.10	2.5	76 / 19	80	95	L80	1	1136580000
KDSW M63 BS 0 NI 2 G63S	M 63 / 1.5	52.10-59.50	42.50-50.10	2.5	76 / 19	80	95	L80	1	1136590000
KDSW M75 BS 0 NI 1 G75	M 75 / 1.5	66.50-73.40	60.50-68.00	2.5	82 / 19	90	110	L90	1	1136640000
KDSW M75 BS 0 NI 2 G75	M 75 / 1.5	71.10-78.00	60.50-68.00	2.5	82 / 19	90	110	L90	1	1136650000
KDSW M75 BS 0 NI 1 G75S	M 75 / 1.5	60.20-68.00	54.50-62.00	2.5	82 / 19	90	110	L90	1	1136620000
KDSW M75 BS 0 NI 2 G75S	M 75 / 1.5	64.80-72.20	54.50-62.00	2.5	82 / 19	90	110	L90	1	1136630000

Note

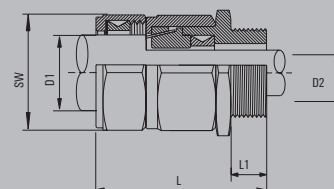
- All cable glands have a thread pitch of 1.5 mm.
- In the case of Ex d applications, the inner threads used for cable glands must meet the requirements of section 5.3 of EN/IEC 60079-1. In the screwed in position, at least 5 threads must be engaged.
- If the cable glands are installed in non-metallic Ex e connection equipment, these must be connected to the protective earth of the system.
- The connection cable must be laid securely and inflexibly to rule out tensile stress.

Cable glands for Ex applications - Brass

Klippon® cable glands - Brass - Ex e, Ex d, IP 66 / IP 68 for armoured cables



Cable gland for cables and lines with single-wire armouring and lead-sheath armouring.



Technical data

Material	Brass
Seal insert	CR
Temperature range	-20 °C...85 °C
Protection degree	IP 54
Protection degree with GWDR	IP 66, IP 68 - 2.5 bar
Water depth	25 m (30 Min.)
Type of armouring	Single-wire armouring, Lead sheath armouring
Approval	ATEX II 2 GD, Ex d IIC / Ex e II / Ex tD A21 IP68, IECEx Ex d IIC / Ex e II

Note IP protection without GWDR is IP 54. To achieve IP 66/68 protection, a nylon GWDR must be ordered separately.

Ordering data

Type metric, brass	Thread	D1 outer cable Ø	D2 inner cable Ø	Cable armour	L/L1	SW	MODR	SUHB	Qty.	Order No.
KDSW M20 BN L SC 1 G16	M 20 / 1.5	4.90-10.00	4.00-8.40	0.9	58 / 16	24	32.5	L24	20	1076250000
KDSW M20 BN L SC 2 G16	M 20 / 1.5	8.40-13.50	4.00-8.40	0.9	58 / 16	24	32.5	L24	20	1076270000
KDSW M20 BN L SC 1 G20S	M 20 / 1.5	9.40-12.50	8.00-11.70	0.9-1.25	58 / 16	24	32.5	L24	20	1076280000
KDSW M20 BN L SC 2 G20S	M 20 / 1.5	11.50-16.00	8.00-11.70	0.9-1.25	58 / 16	24	32.5	L24	20	1076290000
KDSW M20 BN L SC 1 G20	M 20 / 1.5	12.00-17.60	6.70-14.00	0.9-1.25	58 / 16	30	32.5	L30	20	1076300000
KDSW M20 BN L SC 2 G20	M 20 / 1.5	15.50-21.10	6.70-14.00	0.9-1.25	58 / 16	30	32.5	L30	20	1076310000
KDSW M25 BN L SC 1 G25	M 25 / 1.5	16.80-23.90	13.00-20.00	1.25-1.6	58 / 16	38	47.5	L38	20	1076320000
KDSW M25 BN L SC 2 G25	M 25 / 1.5	20.30-27.40	13.00-20.00	1.25-1.6	58 / 16	38	47.5	L38	20	1076330000
KDSW M32 BN L SC 1 G32	M 32 / 1.5	23.20-30.50	19.00-26.30	1.6-2	65 / 16	46	55	L46	10	1076340000
KDSW M32 BN L SC 2 G32	M 32 / 1.5	26.70-34.00	19.00-26.30	1.6-2	65 / 16	46	55	L46	10	1076350000
KDSW M40 BN L SC 1 G40	M 40 / 1.5	28.60-36.20	25.00-32.20	1.6-2	72 / 16	55	65	L55	10	1076360000
KDSW M40 BN L SC 2 G40	M 40 / 1.5	33.00-40.60	25.00-32.20	1.6-2	72 / 16	55	65	L55	10	1076370000
KDSW M50 BN L SC 1 G50S	M 50 / 1.5	34.80-42.40	31.50-38.20	2-2.5	73 / 16	65	80	L65	1	1076380000
KDSW M50 BN L SC 2 G50S	M 50 / 1.5	39.40-46.70	31.50-38.20	2-2.5	73 / 16	65	80	L65	1	1076390000
KDSW M50 BN L SC 1 G50	M 50 / 1.5	41.10-48.50	36.50-44.10	2-2.5	73 / 16	65	80	L65	1	1076400000
KDSW M50 BN L SC 2 G50	M 50 / 1.5	45.70-53.20	36.50-44.10	2-2.5	73 / 16	65	80	L65	1	1076410000
KDSW M63 BN L SC 1 G63S	M 63 / 1.5	47.50-54.80	42.50-50.10	2.5	76 / 19	80	95	L80	1	1076420000
KDSW M63 BN L SC 2 G63S	M 63 / 1.5	52.10-59.50	42.50-50.10	2.5	76 / 19	80	95	L80	1	1076430000
KDSW M63 BN L SC 1 G63	M 63 / 1.5	53.80-61.20	49.50-56.00	2.5	76 / 19	80	95	L80	1	1076440000
KDSW M63 BN L SC 2 G63	M 63 / 1.5	58.40-65.80	49.50-56.00	2.5	76 / 19	80	95	L80	1	1076450000
KDSW M75 BN L SC 1 G75S	M 75 / 1.5	60.20-68.00	54.50-62.00	2.5	82 / 19	90	110	L90	1	1076460000
KDSW M75 BN L SC 2 G75S	M 75 / 1.5	64.80-72.20	54.50-62.00	2.5	82 / 19	90	110	L90	1	1076470000
KDSW M75 BN L SC 1 G75	M 75 / 1.5	66.50-73.40	60.50-68.00	2.5	82 / 19	90	110	L90	1	1076480000
KDSW M75 BN L SC 2 G75	M 75 / 1.5	71.10-78.00	60.50-68.00	2.5	82 / 19	90	110	L90	1	1076490000

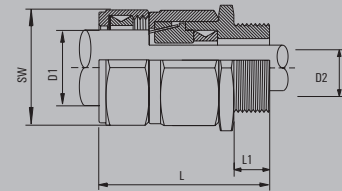
Note

- All cable glands have a thread pitch of 1.5 mm.
- In the case of Ex d applications, the inner threads used for cable glands must meet the requirements of section 5.3 of EN/IEC 60079-1. In the screwed in position, at least 5 threads must be engaged.
- If the cable glands are installed in non-metallic Ex e connection equipment, these must be connected to the protective earth of the system.
- The connection cable must be laid securely and inflexibly to rule out tensile stress.

Klippon® cable glands - Brass - Ex e, Ex d, IP 66 / IP 68 for armoured cables



Cable gland for cables and lines with single-wire armouring and lead-sheath armouring.



Technical data

Material	Brass, nickel-plated
Seal insert	CR
Temperature range	-20 °C...85 °C
Protection degree	IP 54
Protection degree with GWDR	IP 66, IP 68 - 2.5 bar
Water depth	25 m (30 Min.)
Type of armouring	Single-wire armouring, Lead sheath armouring
Approval	ATEX II 2 GD, Ex d IIC / Ex e II / Ex tD A21 IP68, IECEx Ex d IIC / Ex e II

Note IP protection without GWDR is IP 54. To achieve IP 66/68 protection, a nylon GWDR must be ordered separately.

Ordering data

Type	Thread	D1 outer cable Ø	D2 inner cable Ø	Cable armour	L/L1	SW	MODR	SUHB	Qty.	Order No.
metric, nickel-plated brass										
KDSW M20 BN L NI 1 G16	M 20 / 1.5	4.90-10.00	4.00-8.40	0.9	58 / 16	24	32.5	L24	20	1074660000
KDSW M20 BN L NI 2 G16	M 20 / 1.5	8.40-13.50	4.00-8.40	0.9	58 / 16	24	32.5	L24	20	1074690000
KDSW M20 BN L NI 1 G20	M 20 / 1.5	12.00-17.60	6.70-14.00	0.9-1.25	58 / 16	30	32.5	L30	20	1074760000
KDSW M20 BN L NI 2 G20	M 20 / 1.5	15.50-21.10	6.70-14.00	0.9-1.25	58 / 16	30	32.5	L30	20	1074780000
KDSW M20 BN L NI 1 G20S	M 20 / 1.5	9.40-12.50	8.00-11.70	0.9-1.25	58 / 16	24	32.5	L24	20	1074720000
KDSW M20 BN L NI 2 G20S	M 20 / 1.5	11.50-16.00	8.00-11.70	0.9-1.25	58 / 16	24	32.5	L24	20	1074740000
KDSW M25 BN L NI 1 G25	M 25 / 1.5	16.80-23.90	13.00-20.00	1.25-1.6	58 / 16	38	47.5	L38	20	1074810000
KDSW M25 BN L NI 2 G25	M 25 / 1.5	20.30-27.40	13.00-20.00	1.25-1.6	58 / 16	38	47.5	L38	20	1074830000
KDSW M32 BN L NI 1 G32	M 32 / 1.5	23.20-30.50	19.00-26.30	1.6-2	65 / 16	46	55	L46	10	1074850000
KDSW M32 BN L NI 2 G32	M 32 / 1.5	26.70-34.00	19.00-26.30	1.6-2	65 / 16	46	55	L46	10	1074860000
KDSW M40 BN L NI 1 G40	M 40 / 1.5	28.60-36.20	25.00-32.20	1.6-2	72 / 16	55	65	L55	10	1074870000
KDSW M40 BN L NI 2 G40	M 40 / 1.5	33.00-40.60	25.00-32.20	1.6-2	72 / 16	55	65	L55	10	1074880000
KDSW M50 BN L NI 1 G50	M 50 / 1.5	41.40-48.50	36.50-44.10	2-2.5	73 / 16	65	80	L65	1	1074920000
KDSW M50 BN L NI 2 G50	M 50 / 1.5	45.70-53.20	36.50-44.10	2-2.5	73 / 16	65	80	L65	1	1074930000
KDSW M50 BN L NI 1 G50S	M 50 / 1.5	34.80-42.40	31.50-38.20	2-2.5	73 / 16	65	80	L65	1	1074890000
KDSW M50 BN L NI 2 G50S	M 50 / 1.5	39.40-46.70	31.50-38.20	2-2.5	73 / 16	65	80	L65	1	1074910000
KDSW M63 BN L NI 1 G63	M 63 / 1.5	53.80-61.20	49.50-56.00	2.5	76 / 19	80	95	L80	1	1074960000
KDSW M63 BN L NI 2 G63	M 63 / 1.5	58.40-65.80	49.50-56.00	2.5	76 / 19	80	95	L80	1	1074970000
KDSW M63 BN L NI 1 G63S	M 63 / 1.5	47.50-54.80	42.50-50.10	2.5	76 / 19	80	95	L80	1	1074940000
KDSW M63 BN L NI 2 G63S	M 63 / 1.5	52.10-59.50	42.50-50.10	2.5	76 / 19	80	95	L80	1	1074950000
KDSW M75 BN L NI 1 G75	M 75 / 1.5	66.50-73.40	60.50-68.00	2.5	82 / 19	90	110	L90	1	1075010000
KDSW M75 BN L NI 2 G75	M 75 / 1.5	71.10-78.00	60.50-68.00	2.5	82 / 19	90	110	L90	1	1075020000
KDSW M75 BN L NI 1 G75S	M 75 / 1.5	60.20-68.00	54.50-62.00	2.5	82 / 19	90	110	L90	1	1074980000
KDSW M75 BN L NI 2 G75S	M 75 / 1.5	64.80-72.20	54.50-62.00	2.5	82 / 19	90	110	L90	1	1074990000

Note

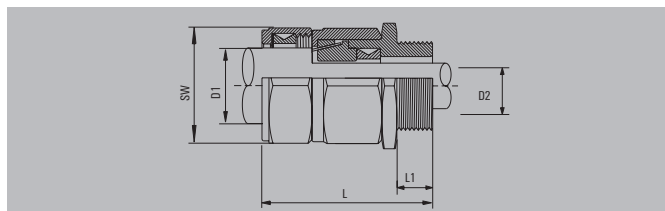
- All cable glands have a thread pitch of 1.5 mm.
- In the case of Ex d applications, the inner threads used for cable glands must meet the requirements of section 5.3 of EN/IEC 60079-1. In the screwed in position, at least 5 threads must be engaged.
- If the cable glands are installed in non-metallic Ex e connection equipment, these must be connected to the protective earth of the system.
- The connection cable must be laid securely and inflexibly to rule out tensile stress.

Cable glands for Ex applications - Brass

Klippon® cable glands - Brass - Ex e, Ex d, IP 66 / IP 68 for armoured cables



Cable gland for cables and lines with braided armouring.



Technical data

Material	Brass
Seal insert	Silicone
Temperature range	-60 °C...180 °C
Protection degree	IP 54
Protection degree with GWDR	IP 66, IP 68 - 2.5 bar
Water depth	25 m (30 Min.)
Type of armouring	Braided armouring
Approval	ATEX II 2 GD, Ex d IIC / Ex e II / Ex tD A21 IP68, IECEx Ex d IIC / Ex e II

Note IP protection without GWDR is IP 54. To achieve IP 66/68 protection, a nylon GWDR must be ordered separately.

Ordering data

Typ	Thread	D1 outer cable Ø	D2 inner cable Ø	Cable armour	L/L1	SW	MODR	SUHB	Qty.	Order No.
metric, brass										
KDSX M20 BS 0 SC 1 G16	M 20 / 1.5	4.90-10.00	4.00-8.40	0.15-0.35	58 / 16	24	32.5	L24	20	1135650000
KDSX M20 BS 0 SC 2 G16	M 20 / 1.5	8.40-13.50	4.00-8.40	0.15-0.35	58 / 16	24	32.5	L24	20	1135660000
KDSX M20 BS 0 SC 1 G20S	M 20 / 1.5	9.40-12.50	8.00-11.70	0.15-0.35	58 / 16	24	32.5	L24	20	1135670000
KDSX M20 BS 0 SC 2 G20S	M 20 / 1.5	11.50-16.00	8.00-11.70	0.15-0.35	58 / 16	24	32.5	L24	20	1135680000
KDSX M20 BS 0 SC 1 G20	M 20 / 1.5	12.00-17.60	6.70-14.00	0.15-0.5	58 / 16	30	32.5	L30	20	1135690000
KDSX M20 BS 0 SC 2 G20	M 20 / 1.5	15.50-21.10	6.70-14.00	0.15-0.5	58 / 16	30	32.5	L30	20	1135710000
KDSX M25 BS 0 SC 1 G25	M 25 / 1.5	16.80-23.90	13.00-20.00	0.15-0.5	58 / 16	38	47.5	L38	20	1135720000
KDSX M25 BS 0 SC 2 G25	M 25 / 1.5	20.30-27.40	13.00-20.00	0.15-0.5	58 / 16	38	47.5	L38	20	1135730000
KDSX M32 BS 0 SC 1 G32	M 32 / 1.5	23.20-30.50	19.00-26.30	0.15-0.55	65 / 16	46	55	L46	10	1135740000
KDSX M32 BS 0 SC 2 G32	M 32 / 1.5	26.70-34.00	19.00-26.30	0.15-0.55	65 / 16	46	55	L46	10	1135750000
KDSX M40 BS 0 SC 1 G40	M 40 / 1.5	28.60-36.20	25.00-32.20	0.2-0.6	72 / 16	55	65	L55	10	1135760000
KDSX M40 BS 0 SC 2 G40	M 40 / 1.5	33.00-40.60	25.00-32.20	0.2-0.6	72 / 16	55	65	L55	10	1135770000
KDSX M50 BS 0 SC 1 G50S	M 50 / 1.5	34.80-42.40	31.50-38.20	0.2-0.6	73 / 16	65	80	L65	1	1135780000
KDSX M50 BS 0 SC 2 G50S	M 50 / 1.5	39.40-46.70	31.50-38.20	0.2-0.6	73 / 16	65	80	L65	1	1135790000
KDSX M50 BS 0 SC 1 G50	M 50 / 1.5	41.10-48.50	36.50-44.10	0.3-0.8	73 / 16	65	80	L65	1	1135800000
KDSX M50 BS 0 SC 2 G50	M 50 / 1.5	45.70-53.20	36.50-44.10	0.3-0.8	73 / 16	65	80	L65	1	1135810000
KDSX M63 BS 0 SC 1 G63S	M 63 / 1.5	47.50-54.80	42.50-50.10	0.3-0.8	76 / 19	80	95	L80	1	1135820000
KDSX M63 BS 0 SC 2 G63S	M 63 / 1.5	52.10-59.50	42.50-50.10	0.3-0.8	76 / 19	80	95	L80	1	1135830000
KDSX M63 BS 0 SC 1 G63	M 63 / 1.5	53.80-61.20	49.50-56.00	0.3-0.8	76 / 19	80	95	L80	1	1135840000
KDSX M63 BS 0 SC 2 G63	M 63 / 1.5	58.40-65.80	49.50-56.00	0.3-0.8	76 / 19	80	95	L80	1	1135850000
KDSX M75 BS 0 SC 1 G75S	M 75 / 1.5	60.20-68.00	54.50-62.00	0.3-1	82 / 19	90	110	L90	1	1135860000
KDSX M75 BS 0 SC 2 G75S	M 75 / 1.5	64.80-72.20	54.50-62.00	0.3-1	82 / 19	90	110	L90	1	1135870000
KDSX M75 BS 0 SC 1 G75	M 75 / 1.5	66.50-73.40	60.50-68.00	0.3-1	82 / 19	90	110	L90	1	1135880000
KDSX M75 BS 0 SC 2 G75	M 75 / 1.5	71.10-78.00	60.50-68.00	0.3-1	82 / 19	90	110	L90	1	1135890000

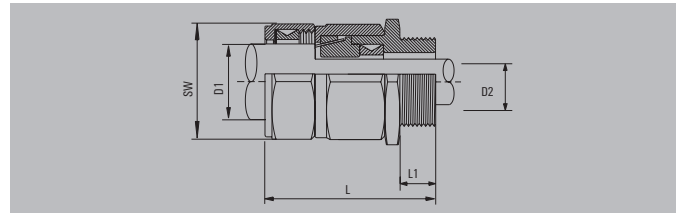
Note

- All cable glands have a thread pitch of 1.5 mm.
- In the case of Ex d applications, the inner threads used for cable glands must meet the requirements of section 5.3 of EN/IEC 60079-1. In the screwed in position, at least 5 threads must be engaged.
- If the cable glands are installed in non-metallic Ex e connection equipment, these must be connected to the protective earth of the system.
- The connection cable must be laid securely and inflexibly to rule out tensile stress.

Klippon® cable glands - Brass - Ex e, Ex d, IP 66 / IP 68 for armoured cables



Cable gland for cables and lines with braided armouring.



Technical data

Material	Brass, nickel-plated
Seal insert	Silicone
Temperature range	-60 °C...180 °C
Protection degree	IP 54
Protection degree with GWDR	IP 66, IP 68 - 2.5 bar
Water depth	25 m (30 Min.)
Type of armouring	Braided armouring
Approval	ATEX II 2 GD, Ex d IIC / Ex e II / Ex tD A21 IP68, IECEx Ex d IIC / Ex e II

Note IP protection without GWDR is IP 54. To achieve IP 66/68 protection, a nylon GWDR must be ordered separately.

Ordering data

Type	Thread	D1 outer cable Ø	D2 inner cable Ø	Cable armour	L/L1	SW	MODR	SUHB	Qty.	Order No.
metric, nickel-plated brass										
KDSX M20 BS 0 NI 1 G16	M 20 / 1.5	4.90-10.00	4.00-8.40	0.15-0.35	58 / 16	24	32.5	L24	20	1135910000
KDSX M20 BS 0 NI 2 G16	M 20 / 1.5	8.40-13.50	4.00-8.40	0.15-0.35	58 / 16	24	32.5	L24	20	1135920000
KDSX M20 BS 0 NI 1 G20	M 20 / 1.5	12.00-17.60	6.70-14.00	0.15-0.5	58 / 16	30	32.5	L30	20	1135950000
KDSX M20 BS 0 NI 2 G20	M 20 / 1.5	15.50-21.10	6.70-14.00	0.15-0.5	58 / 16	30	32.5	L30	20	1135960000
KDSX M20 BS 0 NI 1 G20S	M 20 / 1.5	9.40-12.50	8.00-11.70	0.15-0.35	58 / 16	24	32.5	L24	20	1135930000
KDSX M20 BS 0 NI 2 G20S	M 20 / 1.5	11.50-16.00	8.00-11.70	0.15-0.35	58 / 16	24	32.5	L24	20	1135940000
KDSX M25 BS 0 NI 1 G25	M 25 / 1.5	16.80-23.90	13.00-20.00	0.15-0.5	58 / 16	38	47.5	L38	20	1135970000
KDSX M25 BS 0 NI 2 G25	M 25 / 1.5	20.30-27.40	13.00-20.00	0.15-0.5	58 / 16	38	47.5	L38	20	1135980000
KDSX M32 BS 0 NI 1 G32	M 32 / 1.5	23.20-30.50	19.00-26.30	0.15-0.55	65 / 16	46	55	L46	10	1135990000
KDSX M32 BS 0 NI 2 G32	M 32 / 1.5	26.70-34.00	19.00-26.30	0.15-0.55	65 / 16	46	55	L46	10	1136000000
KDSX M40 BS 0 NI 1 G40	M 40 / 1.5	28.60-36.20	25.00-32.20	0.2-0.6	72 / 16	55	65	L55	10	1136010000
KDSX M40 BS 0 NI 2 G40	M 40 / 1.5	33.00-40.60	25.00-32.20	0.2-0.6	72 / 16	55	65	L55	10	1136020000
KDSX M50 BS 0 NI 1 G50	M 50 / 1.5	41.10-48.50	36.50-44.10	0.2-0.8	73 / 16	65	80	L65	1	1136050000
KDSX M50 BS 0 NI 2 G50	M 50 / 1.5	45.70-53.20	36.50-44.10	0.2-0.8	73 / 16	65	80	L65	1	1136060000
KDSX M50 BS 0 NI 1 G50S	M 50 / 1.5	34.80-42.40	31.50-38.20	0.2-0.6	73 / 16	65	80	L65	1	1136030000
KDSX M50 BS 0 NI 2 G50S	M 50 / 1.5	39.40-46.70	31.50-38.20	0.2-0.6	73 / 16	65	80	L65	1	1136040000
KDSX M63 BS 0 NI 1 G63	M 63 / 1.5	53.80-61.20	49.50-65.00	0.3-0.8	76 / 19	80	95	L80	1	1136090000
KDSX M63 BS 0 NI 2 G63	M 63 / 1.5	58.40-65.80	49.50-65.00	0.3-0.8	76 / 19	80	95	L80	1	1136110000
KDSX M63 BS 0 NI 1 G63S	M 63 / 1.5	47.50-54.80	42.50-50.10	0.3-0.8	76 / 19	80	95	L80	1	1136070000
KDSX M63 BS 0 NI 2 G63S	M 63 / 1.5	52.10-59.50	42.50-50.10	0.3-0.8	76 / 19	80	95	L80	1	1136080000
KDSX M75 BS 0 NI 1 G75	M 75 / 1.5	66.50-73.40	60.50-68.00	0.3-1	82 / 19	90	110	L90	1	1136140000
KDSX M75 BS 0 NI 2 G75	M 75 / 1.5	71.10-78.00	60.50-68.00	0.3-1	82 / 19	90	110	L90	1	1136150000
KDSX M75 BS 0 NI 1 G75S	M 75 / 1.5	60.20-68.00	54.50-62.00	0.3-1	82 / 19	90	110	L90	1	1136120000
KDSX M75 BS 0 NI 2 G75S	M 75 / 1.5	64.80-72.20	54.50-62.00	0.3-1	82 / 19	90	110	L90	1	1136130000

Note

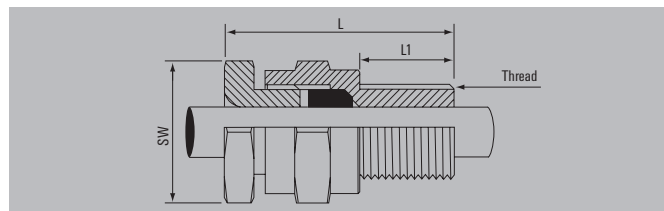
- All cable glands have a thread pitch of 1.5 mm.
- In the case of Ex d applications, the inner threads used for cable glands must meet the requirements of section 5.3 of EN/IEC 60079-1. In the screwed in position, at least 5 threads must be engaged.
- If the cable glands are installed in non-metallic Ex e connection equipment, these must be connected to the protective earth of the system.
- The connection cable must be laid securely and inflexibly to rule out tensile stress.

Cable glands for Ex applications - Brass

Klippon® cable glands - Brass - Ex e, Ex d, IP 66 / IP 68 for non-armoured cables



Cable gland exclusively for non-armoured cables and lines.



Technical data

Material	Brass, nickel-plated
O-ring / Seal insert	CR / CR
Temperature range	-20 °C...85 °C
Degree of protection	IP 66, IP 68 - 2.5 bar
Water depth	25 m (30 Min.)
Approval	ATEX II 2 GD, Ex d IIC / Ex e II / Ex tD A21 IP68, IECEx Ex d IIC / Ex e II

Note Length „L“ varies according to cable diameter used.

Ordering data

Typ	Thread	KB	L/L1	SW	SUHB	Qty.	Order No.
metric, brass							
KSG M20 BN O SC 2 G16	M 20 / 1.5	4-8.4	33 / 16	25	L24	20	1909380000
KSG M20 BN O SC 2 G20S	M 20 / 1.5	7.2-11.7	33 / 16	25	L24	20	1909400000
KSG M20 BN O SC 2 G20	M 20 / 1.5	9.6-14	33 / 16	30	L30	20	1909410000
KSG M25 BN O SC 2 G25	M 25 / 1.5	13.5-20	33 / 16	38	L38	20	1909420000
KSG M32 BN O SC 2 G32	M 32 / 1.5	19.5-26.3	33 / 16	46	L46	10	1909430000
KSG M40 BN O SC 2 G40	M 40 / 1.5	23-32.2	37 / 16	55	L55	10	1909440000
KSG M50 BN O SC 2 G50S	M 50 / 1.5	28.2-38.2	37 / 16	65	L65	1	1909450000
KSG M50 BN O SC 2 G50	M 50 / 1.5	33.2-44.1	37 / 16	65	L65	1	1909460000
KSG M63 BN O SC 2 G63S	M 63 / 1.5	39.3-50.1	37 / 19	80	L80	1	1909470000
KSG M63 BN O SC 2 G63	M 63 / 1.5	46.7-56	37 / 19	80	L80	1	1909480000
KSG M75 BN O SC 2 G75	M 75 / 1.5	58.1-68	37 / 19	90	L90	1	1075340000
KSG M75 BN O SC 2 G75S	M 75 / 1.5	52.3-62	37 / 19	90	L90	1	1075330000
metric, nickel-plated brass							
KSG M20 BN O NI 2 G16	M 20 / 1.5	4-8.4	33 / 16	25	L24	20	1911510000
KSG M20 BN O NI 2 G20S	M 20 / 1.5	7.2-11.7	33 / 16	25	L24	20	1911540000
KSG M20 BN O NI 2 G20	M 20 / 1.5	9.6-14	33 / 16	30	L30	20	1911560000
KSG M25 BN O NI 2 G25	M 25 / 1.5	13.5-20	33 / 16	38	L38	20	1911570000
KSG M32 BN O NI 2 G32	M 32 / 1.5	19.5-26.3	33 / 16	46	L46	10	1911580000
KSG M40 BN O NI 2 G40	M 40 / 1.5	23-32.2	37 / 16	55	L55	10	1911590000
KSG M50 BN O NI 2 G50S	M 50 / 1.5	28.2-38.2	37 / 16	65	L65	1	1911600000
KSG M50 BN O NI 2 G50	M 50 / 1.5	33.2-44.1	37 / 16	65	L65	1	1911610000
KSG M63 BN O NI 2 G63S	M 63 / 1.5	39.3-50.1	37 / 19	80	L80	1	1911620000
KSG M63 BN O NI 2 G63	M 63 / 1.5	46.7-56	37 / 19	80	L80	1	1911630000
KSG M75 BN O NI 2 G75	M 75 / 1.5	58.1-68	37 / 19	90	L90	1	1075360000
KSG M75 BN O NI 2 G75S	M 75 / 1.5	52.3-62	37 / 19	90	L90	1	1075350000

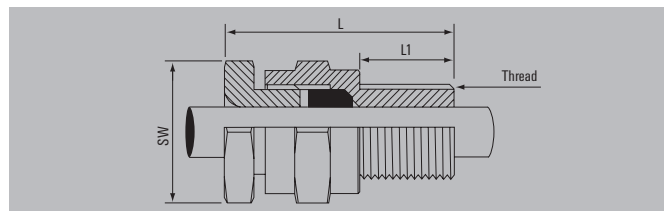
Note

- All cable glands have a thread pitch of 1.5 mm.
- In the case of Ex d applications, the inner threads used for cable glands must meet the requirements of section 5.3 of EN/IEC 60079-1. In the screwed in position, at least 5 threads must be engaged.
- If the cable glands are installed in non-metallic Ex e connection equipment, these must be connected to the protective earth of the system.
- The connection cable must be laid securely and inflexibly to rule out tensile stress.

Klippon® cable glands - Brass - Ex e, Ex d, IP 66 / IP 68 for non-armoured cables



Cable gland exclusively for non-armoured cables and lines.



Technical data

Material	Brass
O-ring / Seal insert	Silicone / Silicone
Temperature range	-60 °C...180 °C
Degree of protection	IP 66, IP 68 - 2.5 bar
Water depth	25 m (30 Min.)
Approval	ATEX II 2 GD, Ex d IIC / Ex e II / Ex tD A21 IP68, IECEx Ex d IIC / Ex e II

Note

Ordering data

Typ	Thread	KB	L/L1	SW	SUHB	Qty.	Order No.
metric, brass							
KSG M20 BS O SC 2 G16	M 20 / 1.5	4-8.4	33 / 16	25	L24	20	0930481212
KSG M20 BS O SC 2 G20	M 20 / 1.5	9.6-14	33 / 16	30	L30	20	0930501212
KSG M20 BS O SC 2 G20S	M 20 / 1.5	7.2-11.7	33 / 16	25	L24	20	1136720000
KSG M25 BS O SC 2 G25	M 25 / 1.5	13.5-20	33 / 16	38	L38	20	0930511212
KSG M32 BS O SC 2 G32	M 32 / 1.5	19.5-26.3	33 / 16	46	L46	10	0930521212
KSG M40 BS O SC 2 G40	M 40 / 1.5	23-32.2	37 / 16	55	L55	10	0930531212
KSG M50 BS O SC 2 G50	M 50 / 1.5	33.2-44.1	37 / 16	65	L65	1	0930551212
KSG M50 BS O SC 2 G50S	M 50 / 1.5	28.2-38.2	37 / 16	65	L65	1	1136730000
KSG M63 BS O SC 2 G63	M 63 / 1.5	46.7-56	37 / 19	80	L80	1	1136750000
KSG M63 BS O SC 2 G63S	M 63 / 1.5	39.3-50.1	37 / 19	80	L80	1	1136740000
KSG M75 BS O SC 2 G75	M 75 / 1.5	58.1-68	37 / 19	90	L90	1	1136770000
KSG M75 BS O SC 2 G75S	M 75 / 1.5	52.3-62	37 / 19	90	L90	1	1136760000
metric, nickel-plated brass							
KSG M20 BS O NI 2 G16	M 20 / 1.5	4-8.4	33 / 16	25	L24	20	0930481222
KSG M20 BS O NI 2 G20	M 20 / 1.5	9.6-14	33 / 16	25	L30	20	0930501222
KSG M20 BS O NI 2 G20S	M 20 / 1.5	7.2-11.7	33 / 16	25	L24	20	0930491224
KSG M25 BS O NI 2 G25	M 25 / 1.5	13.5-20	33 / 16	38	L38	20	0930511222
KSG M32 BS O NI 2 G32	M 32 / 1.5	19.5-26.3	33 / 16	46	L46	10	0930521222
KSG M40 BS O NI 2 G40	M 40 / 1.5	23-32.2	37 / 16	55	L55	10	0930531222
KSG M50 BS O NI 2 G50	M 50 / 1.5	33.2-44.1	37 / 16	65	L65	1	1136670000
KSG M50 BS O NI 2 G50S	M 50 / 1.5	28.2-38.2	37 / 16	65	L65	1	1136660000
KSG M63 BS O NI 2 G63	M 63 / 1.5	46.7-56	37 / 19	80	L80	1	1136690000
KSG M63 BS O NI 2 G63S	M 63 / 1.5	39.3-50.1	37 / 19	80	L80	1	1136680000
KSG M75 BS O NI 2 G75	M 75 / 1.5	58.1-68	37 / 19	90	L90	1	1136710000
KSG M75 BS O NI 2 G75S	M 75 / 1.5	52.3-62	37 / 19	90	L90	1	1136700000

Note

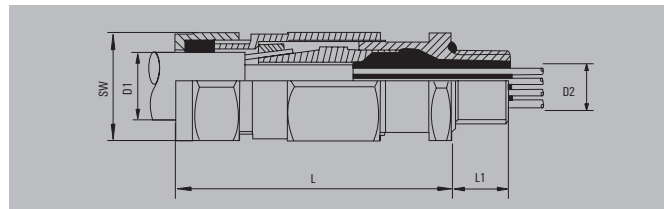
- All cable glands have a thread pitch of 1.5 mm.
- In the case of Ex d applications, the inner threads used for cable glands must meet the requirements of section 5.3 of EN/IEC 60079-1. In the screwed in position, at least 5 threads must be engaged.
- If the cable glands are installed in non-metallic Ex e connection equipment, these must be connected to the protective earth of the system.
- The connection cable must be laid securely and inflexibly to rule out tensile stress.

Cable glands for Ex applications - Brass

Klippon® cable glands - Brass - Ex d, IP 68 for armoured and non-armoured encapsulated cables



Barrier cable glands for cables and lines with a single-wire, metal-foil armouring, and braided armouring for Ex-d IIC enclosure, with a volume of more than two litres.



Technical data

Material	Brass
O-ring / Seal insert	Silicone / CR
Temperature range	-60 °C...85 °C
Degree of protection	IP 68 - 10 bar
Water depth	100 m (30 Min.)
Type of armouring	Single-wire armouring, Metal foil armouring, Braided armouring
Encapsulation compound	Processing temperature at 21°C, the sealing compound is hardened after one hour, After 4 hours, the cable gland can be installed and initial commissioning can take place
Approval	ATEX II 2 GD, Ex d IIC / Ex tD A21 IP68, I M2 Ex d I, IECEx Ex d IIC / Ex d I
Note	

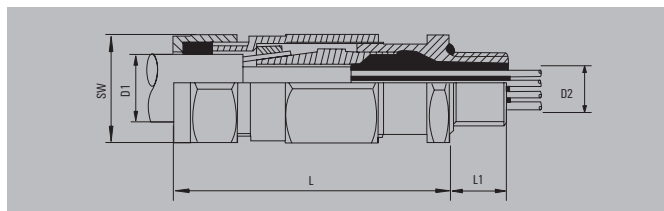
Ordering data

Typ metric, brass	Thread	D1 outer cable Ø	D2 inner cable Ø	L/L1	SW	SUHB	Qty.	Order No.
KUB M20 BS 0 SC 1 G16	M 20 / 1.5	6.70-16.00	14.00	72 / 16	24	L24	20	1095340000
KUB M20 BS 0 SC 2 G16	M 20 / 1.5	9.00-17.60	11.70	72 / 16	24	L24	20	1095350000
KUB M20 BS 0 SC 1 G20S	M 20 / 1.5	9.40-10.30	11.70	72 / 16	24	L24	20	1095360000
KUB M20 BS 0 SC 2 G20S	M 20 / 1.5	11.50-21.10	11.70	72 / 16	24	L24	20	1095370000
KUB M20 BS 0 SC 1 G20	M 20 / 1.5	12.00-13.50	11.70	73 / 16	30	EL30	20	1095380000
KUB M20 BS 0 SC 2 G20	M 20 / 1.5	15.50-12.50	14.00	73 / 16	30	EL30	20	1095390000
KUB M25 BS 0 SC 1 G25	M 25 / 1.5	16.80-23.90	20.00	83 / 16	38	EL38	20	1095400000
KUB M25 BS 0 SC 2 G25	M 25 / 1.5	20.30-27.40	20.00	83 / 16	38	EL38	20	1095410000
KUB M32 BS 0 SC 1 G32	M 32 / 1.5	23.20-30.50	26.30	103 / 16	46	EL46	10	1095420000
KUB M32 BS 0 SC 2 G32	M 32 / 1.5	26.70-34.00	26.30	103 / 16	46	EL46	10	1095430000
KUB M40 BS 0 SC 1 G40	M 40 / 1.5	28.60-36.20	32.20	105 / 16	55	EL55	10	1095440000
KUB M40 BS 0 SC 2 G40	M 40 / 1.5	33.00-46.70	38.20	105 / 16	55	EL55	10	1095450000
KUB M50 BS 0 SC 1 G50S	M 50 / 1.5	34.80-48.50	44.10	115 / 16	65	EL65	1	1095460000
KUB M50 BS 0 SC 2 G50S	M 50 / 1.5	39.40-59.50	50.10	115 / 16	65	EL65	1	1095470000
KUB M50 BS 0 SC 1 G50	M 50 / 1.5	41.10-40.60	32.20	115 / 16	65	EL65	1	1095480000
KUB M50 BS 0 SC 2 G50	M 50 / 1.5	45.70-42.40	38.20	115 / 16	65	EL65	1	1095490000
KUB M63 BS 0 SC 1 G63S	M 63 / 1.5	47.50-61.20	56.00	115 / 19	80	EL80	1	1095500000
KUB M63 BS 0 SC 2 G63S	M 63 / 1.5	52.10-72.20	62.00	115 / 19	80	EL80	1	1095510000
KUB M63 BS 0 SC 1 G63	M 63 / 1.5	53.80-53.20	44.10	115 / 19	80	EL80	1	1095520000
KUB M63 BS 0 SC 2 G63	M 63 / 1.5	58.40-54.80	50.10	115 / 19	80	EL80	1	1095530000
KUB M75 BS 0 SC 1 G75S	M 75 / 1.5	60.20-73.40	68.00	122 / 19	90	EL90	1	1095540000
KUB M75 BS 0 SC 2 G75S	M 75 / 1.5	64.80-78.00	68.00	122 / 19	90	EL90	1	1095550000
KUB M75 BS 0 SC 1 G75	M 75 / 1.5	66.50-65.80	56.00	122 / 19	90	EL90	1	1095560000
KUB M75 BS 0 SC 2 G75	M 75 / 1.5	71.10-68.00	62.00	122 / 19	90	EL90	1	1095570000
Note - All cable glands have a thread pitch of 1.5 mm. - In the case of Ex d applications, the inner threads used for cable glands must meet the requirements of section 5.3 of EN/IEC 60079-1. In the screwed in position, at least 5 threads must be engaged. - The connection cable must be laid securely and inflexibly to rule out tensile stress.								

Klippon® cable glands - Brass - Ex d, IP 68 for armoured and non-armoured encapsulated cables



Barrier cable glands for cables and lines with a single-wire, metal-foil armouring, and braided armouring for Ex-d IIC enclosure, with a volume of more than two litres.



Technical data

Material	Brass, nickel-plated
O-ring / Seal insert	Silicone / Silicone
Temperature range	-60 °C...85 °C
Degree of protection	IP 68 - 10 bar
Water depth	100 m (30 Min.)
Type of armouring	Single-wire armouring, Metal foil armouring, Braided armouring
Encapsulation compound	Processing temperature at 21°C, the sealing compound is hardened after one hour, After 4 hours, the cable gland can be installed and initial commissioning can take place
Approval	ATEX II 2 GD, Ex d IIC / Ex tD A21 IP68, I M2 Ex d I, IECEx Ex d IIC / Ex d I
Note	

Ordering data

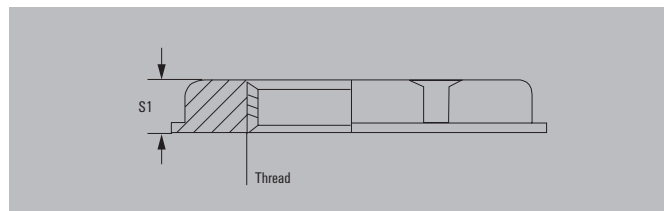
Typ	Thread	D1 outer cable Ø	D2 inner cable Ø	L/L1	SW	SUHB	Qty.	Order No.
metric, nickel-plated brass								
KUB M20 BS O NI 1 G16	M 20 / 1.5	6.70-10.30	11.70	72 / 16	24	L24	20	1095100000
KUB M20 BS O NI 2 G16	M 20 / 1.5	9.00-13.50	11.70	72 / 16	24	L24	20	1095110000
KUB M20 BS O NI 1 G20	M 20 / 1.5	12.00-17.60	11.70	73 / 16	30	EL30	20	1095140000
KUB M20 BS O NI 2 G20	M 20 / 1.5	15.50-21.10	11.70	73 / 16	30	EL30	20	1095150000
KUB M20 BS O NI 1 G20S	M 20 / 1.5	9.40-12.50	14.00	72 / 16	24	L24	20	1095120000
KUB M20 BS O NI 2 G20S	M 20 / 1.5	11.50-16.00	14.00	72 / 16	24	L24	20	1095130000
KUB M25 BS O NI 1 G25	M 25 / 1.5	16.80-23.90	20.00	83 / 16	38	EL38	20	1095160000
KUB M25 BS O NI 2 G25	M 25 / 1.5	20.30-27.40	20.00	83 / 16	38	EL38	20	1095170000
KUB M32 BS O NI 1 G32	M 32 / 1.5	23.20-30.50	26.30	103 / 16	46	EL46	10	1095180000
KUB M32 BS O NI 2 G32	M 32 / 1.5	26.70-34.00	26.30	103 / 16	46	EL46	10	1095190000
KUB M40 BS O NI 1 G40	M 40 / 1.5	28.60-36.20	32.20	105 / 16	55	EL55	10	1095200000
KUB M40 BS O NI 2 G40	M 40 / 1.5	33.00-40.60	32.20	105 / 16	55	EL55	10	1095210000
KUB M50 BS O NI 1 G50	M 50 / 1.5	41.10-48.50	44.10	115 / 16	65	EL65	1	1095240000
KUB M50 BN O NI 2 G50	M 50 / 1.5	45.70-53.20	44.10	115 / 16	65	EL65	1	1095250000
KUB M50 BS O NI 1 G50S	M 50 / 1.5	34.80-42.40	38.20	115 / 16	65	EL65	1	1095220000
KUB M50 BS O NI 2 G50S	M 50 / 1.5	39.40-46.70	38.20	115 / 16	65	EL65	1	1095230000
KUB M63 BS O NI 1 G63	M 63 / 1.5	53.80-61.20	56.00	115 / 19	80	EL80	1	1095280000
KUB M63 BS O NI 2 G63	M 63 / 1.5	58.40-65.80	56.00	115 / 19	80	EL80	1	1095290000
KUB M63 BS O NI 1 G63S	M 63 / 1.5	47.50-54.80	50.10	115 / 19	80	EL80	1	1095260000
KUB M63 BS O NI 2 G63S	M 63 / 1.5	52.10-59.50	50.10	115 / 19	80	EL80	1	1095270000
KUB M75 BS O NI 1 G75	M 75 / 1.5	66.50-73.40	68.00	122 / 19	90	EL90	1	1095320000
KUB M75 BS O NI 2 G75	M 75 / 1.5	71.10-78.00	68.00	122 / 19	90	EL90	1	1095330000
KUB M75 BS O NI 1 G75S	M 75 / 1.5	60.20-68.00	62.00	122 / 19	90	EL90	1	1095300000
KUB M75 BS O NI 2 G75S	M 75 / 1.5	64.80-72.20	62.00	122 / 19	90	EL90	1	1095310000
Note								
- All cable glands have a thread pitch of 1.5 mm. - In the case of Ex d applications, the inner threads used for cable glands must meet the requirements of section 5.3 of EN/IEC 60079-1. In the screwed in position, at least 5 threads must be engaged. - The connection cable must be laid securely and inflexibly to rule out tensile stress.								

Accessories - Lock nuts

Lock nuts - Plastic 7035



Lock nuts with collar for preventing enclosure damage on installation. These are used to secure plastic cable glands and sealing plugs.



Technical data

Material / Colour	Polyamid 6 (PA6 - GF30) / RAL 7035
Temperature range	-20 °C...80 °C
Flammability rating	V-2

Note

Ordering data

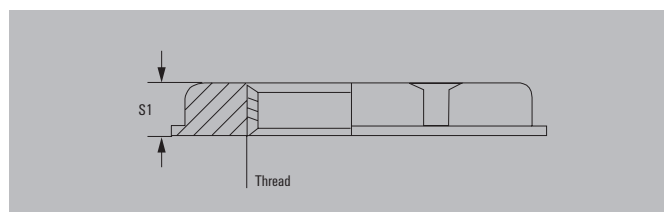
Typ metric	Thread	S1	SW	Qty.	Order No.
SKMU M12 - K GR	M 12 / 1.5	5.00	18	100	1772440000
SKMU M16 - K GR	M 16 / 1.5	5.00	22	100	1772450000
SKMU M20 - K GR	M 20 / 1.5	6.00	26	100	1772460000
SKMU M25 - K GR	M 25 / 1.5	6.00	32	100	1772470000
SKMU M32 - K GR	M 32 / 1.5	7.00	41	100	1772480000
SKMU M40 - K GR	M 40 / 1.5	7.00	50	50	1772490000
SKMU M50 - K GR	M 50 / 1.5	8.00	60	10	1772500000
SKMU M63 - K GR	M 63 / 1.5	8.00	75	10	1772510000
PG					
SKMU PG7-K GR	PG 7	5.00	19	100	1697440000
SKMU PG9-K GR	PG 9	5.00	22	100	1697450000
SKMU PG11-K GR	PG 11	5.00	24	100	1697460000
SKMU PG 13.5-K GR	PG 13.5	6.00	27	100	1697470000
SKMU PG16-K GR	PG 16	6.00	30	100	1697480000
SKMU PG21-K GR	PG 21	7.00	36	100	1698220000
SKMU PG29-K GR	PG 29	7.00	46	50	1698230000
SKMU PG36-K GR	PG 36	8.00	60	25	1698240000
SKMU PG42-K GR	PG 42	8.00	65	25	1698250000
SKMU PG48-K GR	PG 48	8.00	70	25	1719090000

Note Further versions on request

Lock nuts - Plastic 9005



Lock nuts with collar for preventing enclosure damage on installation. These are used to secure plastic cable glands and sealing plugs - recommended for Ex e and Ex i plastic cable glands.



Technical data

Material / Colour	Polyamid 6 (PA6 - GF30) / RAL 9005
Temperature range	-20 °C...80 °C
Flammability rating	V-2

Note

Ordering data

Typ metric	Thread	S1	SW	Qty.	Order No.
SKMU M12-K SW	M 12 / 1.5	5.00	18	100	1806540000
SKMU M16 K SW	M 16 / 1.5	5.00	22	100	1736920000
SKMU M20 K SW	M 20 / 1.5	6.00	26	100	1736930000
SKMU M25 K SW	M 25 / 1.5	6.00	32	25	1736940000
SKMU M32 K SW	M 32 / 1.5	7.00	41	100	1736950000
SKMU M40 K SW	M 40 / 1.5	7.00	50	10	1736960000
SKMU M50 K SW	M 50 / 1.5	8.00	60	5	1736970000
SKMU M63 K SW	M 63 / 1.5	8.00	75	5	1736980000
PG					
SKMU PG7-K SW	PG 7	5.00	19	50	1719100000
SKMU PG9-K SW	PG 9	5.00	22	50	1719110000
SKMU PG11-K SW	PG 11	5.00	24	50	1719120000
SKMU PG13.5-K SW	PG 13.5	6.00	27	50	1719130000
SKMU PG16-K SW	PG 16	6.00	30	25	1719140000
SKMU PG21-K SW	PG 21	7.00	36	20	1719150000
SKMU PG29-K SW	PG 29	7.00	46	20	1719160000
SKMU PG36-K SW	PG 36	8.00	60	10	1719170000
SKMU PG42-K SW	PG 42	8.00	65	10	1719180000
SKMU PG48-K SW	PG 48	8.00	70	5	1719190000

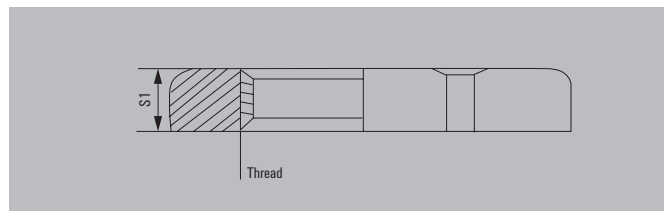
Note

Accessories - Lock nuts

Lock nuts - Brass - Nickel-plated



A lock nut is used to secure the brass cable glands and sealing plugs – also recommended when working with Ex applications.



Technical data

Material	Brass, nickel-plated
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Note

Ordering data

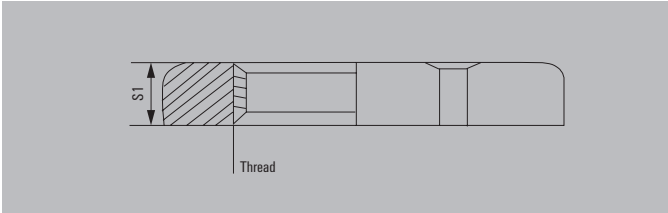
Typ metric	Thread	S1	SW	Qty.	Order No.
SKMU M12 - MS	M 12 / 1.5	2.8	14	50	1772360000
SKMU M16 MS	M 16 / 1.5	2.8	19	50	1736990000
SKMU M20 MS	M 20 / 1.5	3	24	50	1737000000
SKMU M25 MS	M 25 / 1.5	3	28	25	1737010000
SKMU M32 MS	M 32 / 1.5	4	36	20	1737020000
SKMU M40 MS	M 40 / 1.5	4.5	44	10	1737030000
SKMU M50 MS	M 50 / 1.5	5	54	5	1737040000
SKMU M63 MS	M 63 / 1.5	6	70	5	1737050000
SKMU M75 MS	M 75 / 1.5	8	85	5	1737060000
PG					
SKMU PG7-MS	PG 7	2.8	15	100	1694070000
SKMU PG9-MS	PG 9	2.8	18	100	1694080000
SKMU PG11-MS	PG 11	3	21	100	1694090000
SKMU PG13.5-MS	PG 13.5	3	23	100	1694100000
SKMU PG16-MS	PG 16	3	26	100	1694110000
SKMU PG21-MS	PG 21	3.5	32	50	1719200000
SKMU PG29-MS	PG 29	4	41	50	1719210000
SKMU PG36-MS	PG 36	5	51	50	1719220000
SKMU PG42-MS	PG 42	5	60	50	1719230000
SKMU PG48-MS	PG 48	5.5	64	50	1719240000

Note	Further versions on request
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Lock nuts - Brass - Natural



A lock nut made from untreated brass is used to secure the brass cable glands and sealing plugs - also recommended when working with Ex applications.



Technical data

Material	Brass
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Note

Ordering data

Typ metric	Thread	S1	SW	Qty.	Order No.
SKMU M16 MS SC	M 16 / 1.5	4	22	50	0930640001
SKMU M20 MS SC	M 20 / 1.5	4	24	50	0930640002
SKMU M25 MS SC	M 25 / 1.5	4	30	25	0930640003
SKMU M32 MS SC	M 32 / 1.5	4	40	20	0930640004
SKMU M40 MS SC	M 40 / 1.5	4.5	50	10	0930640005
SKMU M50 MS SC	M 50 / 1.5	5	65	5	0930640006
SKMU M63 MS SC	M 63 / 1.5	6.5	75	5	0930640007
SKMU M75 MS SC	M 75 / 1.5	7	90	5	0930640008
SKMU M80 MS SC	M 80 / 1.5	7	90	5	0930640009
SKMU M85 MS SC	M 85 / 1.5	7	104.8	5	0930640010
SKMU M90 MS SC	M 90 / 1.5	7	104.8	5	0930640011

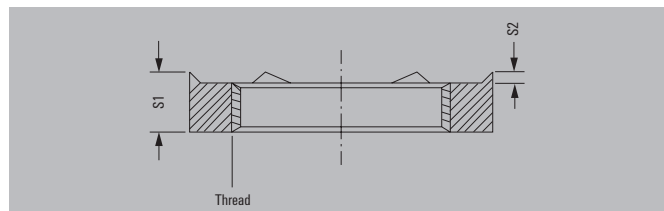
Note

Accessories - Lock nuts

Lock nuts - Brass - EMC



Serrated locks are used for securing brass cable glands and sealing plugs – specially equipped with 6 edges which contact the enclosure when the lock nut is tightened.



Technical data

Material	Brass, nickel-plated
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Note

Ordering data

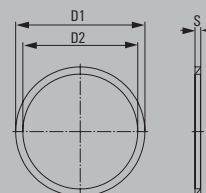
Typ metric	Thread	S1	SW	Qty.	Order No.
SKMU EMV M12	M 12 / 1.5	3.6	15	50	1777610000
SKMU EMV M16	M 16 / 1.5	3.6	19	50	1777620000
SKMU EMV M20	M 20 / 1.5	3.6	24	50	1777630000
SKMU EMV M25	M 25 / 1.5	3.6	30	20	1777640000
SKMU EMV M32	M 32 / 1.5	4.1	36	20	1777650000
SKMU EMV M40	M 40 / 1.5	4.6	46	10	1777660000
SKMU EMV M50	M 50 / 1.5	4.6	60	10	1777670000
SKMU EMV M63	M 63 / 1.5	6.6	70	10	1777680000
PG					
SKMU EMV PG7	PG 7	4.7	15	20	1718900000
SKMU EMV PG9	PG 9	4.7	18	20	1718910000
SKMU EMV PG11	PG 11	4.7	21	20	1718920000
SKMU EMV PG13.5	PG 13.5	4.7	23	10	1718930000
SKMU EMV PG16	PG 16	4.7	26	10	1718940000
SKMU EMV PG21	PG 21	5.2	32	10	1718950000
SKMU EMV PG29	PG 29	5.7	41	15	1718960000
SKMU EMV PG 36	PG 36	4.6	51	1	1777710000
SKMU EMV PG 42	PG 42	4.6	58	1	1777700000
SKMU EMV PG 48	PG 48	5.6	64	1	1777690000

Note	Further versions on request
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Flat IP washer - Standard - Polyethylene



Flat IP washer for increasing the degree of protection for cable glands and sealing plugs.
The IP washer is also suitable as a replacement for O-rings.



Technical data

Material / Colour	Polyethylene / Transparent
Temperature range	-30 °C...90 °C

Note

Ordering data

Typ metric	Thread	D1	D2	S	Qty.	Order No.
GWDR M12-PO	M 12 / 1.5	16.00	12.00	1.50	50	1777920000
GWDR M16-PO	M 16 / 1.5	20.00	16.00	1.50	50	1777930000
GWDR M20-PO	M 20 / 1.5	25.00	20.40	2.00	100	1777940000
GWDR M25-PO	M 25 / 1.5	30.00	25.00	2.00	50	1777950000
GWDR M32-PO	M 32 / 1.5	38.00	32.00	2.00	50	1777960000
GWDR M40-PO	M 40 / 1.5	45.00	40.00	2.00	50	1777970000
GWDR M50-PO	M 50 / 1.5	56.00	50.00	2.00	50	1777980000
GWDR M63-PO	M 63 / 1.5	70.00	63.00	2.00	50	1777990000
PG						
GWDR PG7-PO	PG 7	16.50	12.50	1.60	100	1719440000
GWDR PG9-PO	PG 9	19.00	15.20	1.60	100	1719450000
GWDR PG11-PO	PG 11	22.50	18.60	1.80	100	1719460000
GWDR PG13.5-PO	PG 13.5	25.00	20.40	1.80	100	1719470000
GWDR PG16-PO	PG 16	27.00	22.50	1.80	100	1719480000
GWDR PG21-PO	PG 21	33.50	28.30	2.20	100	1719490000
GWDR PG29-PO	PG 29	43.50	37.00	2.20	50	1719500000
GWDR PG36-PO	PG 36	55.00	47.00	2.70	50	1719510000
GWDR PG42-PO	PG 42	63.00	54.00	3.20	10	1719520000
GWDR PG48-PO	PG 48	69.00	59.30	3.20	5	1719530000

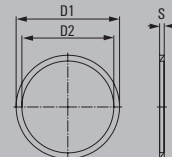
Note

Further versions on request

Flat gasket seals - Standard - Neoprene



Flat gasket seal to increase the degree of protection for cable glands and sealing plugs – recommended for use in Ex applications. The seal is also suitable as a replacement for O-rings.



Technical data

Material / Colour	Neoprene / RAL 9005
Temperature range	-30 °C...100 °C

Note

Ordering data

Typ metric	Thread	D1	D2	S	Qty.	Order No.
GWDR M12-NP	M 12 / 1.5	18.00	12.00	1.20	50	1913320000
GWDR M16-NP	M 16 / 1.5	22.00	16.00	1.20	50	1736230000
GWDR M20-NP	M 20 / 1.5	24.00	20.00	1.20	50	1736240000
GWDR M25-NP	M 25 / 1.5	30.00	25.00	1.50	50	1736250000
GWDR M32-NP	M 32 / 1.5	42.00	32.00	1.50	50	1736260000
GWDR M40-NP	M 40 / 1.5	52.00	40.00	1.50	20	1736270000
GWDR M50-NP	M 50 / 1.5	63.00	50.00	1.50	20	1736280000
GWDR M63-NP	M 63 / 1.5	77.00	63.00	2.00	10	1736290000
PG						
GWDR PG7-NP	PG 7	17.00	11.60	1.20	100	1719540000
GWDR PG9-NP	PG 9	21.00	14.00	1.20	100	1719550000
GWDR PG11-NP	PG 11	24.00	17.00	1.20	100	1719560000
GWDR PG13.5-NP	PG 13.5	27.00	19.50	1.20	100	1719570000
GWDR PG16-NP	PG 16	30.00	22.50	1.20	100	1719580000
GWDR PG21-NP	PG 21	35.00	28.30	1.50	100	1719590000
GWDR PG29-NP	PG 29	45.00	37.00	1.50	50	1719600000
GWDR PG36-NP	PG 36	60.00	47.00	1.50	20	1719610000
GWDR PG42-NP	PG 42	65.00	54.00	1.50	10	1719620000
GWDR PG48-NP	PG 48	71.00	59.30	1.50	5	1719630000

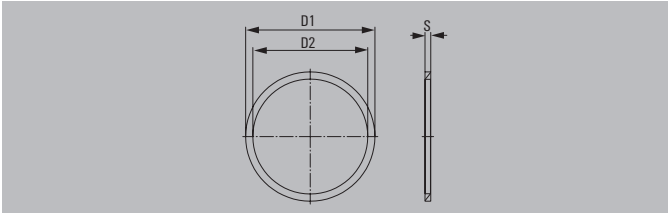
Note

Further versions on request

Flat IP washer - Standard - Nylon



Flat nylon IP washer, used for sealing large surfaces, for example around cable glands on enclosures.



Technical data

Material / Colour	Nylon 6 / RAL 3020
Temperature range	-40 °C...135 °C

Note

Ordering data

Typ	Thread	D1	D2	S	Qty.	Order No.
metric						
KSWN M16	M 16 / 1.5	25.00	16.50	2.00	25	1076630000
KSWN M20	M 20 / 1.5	29.40	20.70	2.00	25	0930730002
KSWN M25	M 25 / 1.5	38.10	25.70	2.00	25	1076640000
KSWN M32	M 32 / 1.5	42.50	32.50	2.00	25	1076650000
KSWN M40	M 40 / 1.5	52.00	40.50	2.00	25	0899780000
KSWN M50	M 50 / 1.5	65.00	50.50	2.00	25	0900660000
KSWN M63	M 63 / 1.5	79.40	63.50	2.00	25	1076660000
KSWN M75	M 75 / 1.5	90.50	75.50	2.00	25	1076670000

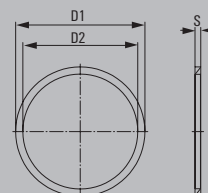
Note

Accessories - Flat IP washer

Flat IP washer - Standard - Vulcanised fibre



Flat nylon IP washer made from vulcanised fibre, used for sealing large surfaces, for example around cable glands on enclosures.



Technical data

Material / Colour	Vulcanized fibre / RAL 3011
Temperature range	-40 °C...95 °C

Note

Ordering data

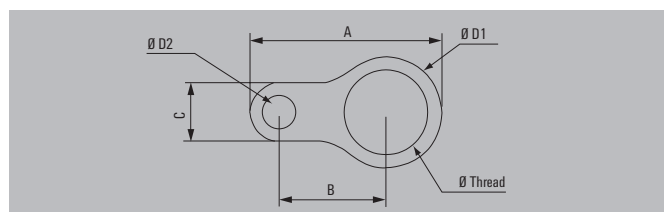
Typ metric	Thread	D1	D2	S	Qty.	Order No.
KSWF M16	M 16 / 1.5	25.00	16.50	2.00	25	1076680000
KSWF M20	M 20 / 1.5	29.40	20.70	2.00	25	0899750000
KSWF M25	M 25 / 1.5	38.10	25.70	2.00	25	0899770000
KSWF M32	M 32 / 1.5	42.50	32.50	2.00	25	1076690000
KSWF M40	M 40 / 1.5	52.00	40.50	2.00	25	1076710000
KSWF M50	M 50 / 1.5	65.00	50.50	2.00	25	1076720000
KSWF M63	M 63 / 1.5	79.40	63.50	2.00	25	1076730000
KSWF M75	M 75 / 1.5	90.50	75.50	2.00	25	1076740000
KSWF M90	M 90 / 1.5	114.30	90.50	2.00	25	1192820000

Note

Accessories - Earth tags - Brass - Nickel plated



Earth tags are best used when a cable shielding is being tightened onto the cable gland, and when it has the same potential as another cable gland on the enclosure.



Technical data

Material	Brass, nickel-plated
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Note

Ordering data

Typ metric	Thread	A	B	C	D1	D2	Qty.	Order No.
EA-RING MS/M 16	M 16 / 1.5	48.75	30.00	13.00	24.50	6.75	20	1736480000
EA-RING MS/M 20	M 20 / 1.5	53.8	33.00	13.00	28.60	7.00	20	1736490000
EA-RING MS/M 25	M 25 / 1.5	61.5	36.00	17.00	34.00	10.50	20	1736500000
EA-RING MS/M 32	M 32 / 1.5	73	41.00	22.00	42.00	12.20	20	1736510000
EA-RING MS/M 40	M 40 / 1.5	86.5	44.50	30.00	54.00	13.50	10	1736520000
EA-RING MS/M 50	M 50 / 1.5	111.5	58.00	40.00	67.00	13.50	10	1736530000
EA-RING MS/M 63	M 63 / 1.5	125.5	67.00	40.00	77.00	13.50	10	1736540000
EA-RING MS/M 75	M 75 / 1.5	137.5	73.00	40.00	89.00	13.50	10	1736550000

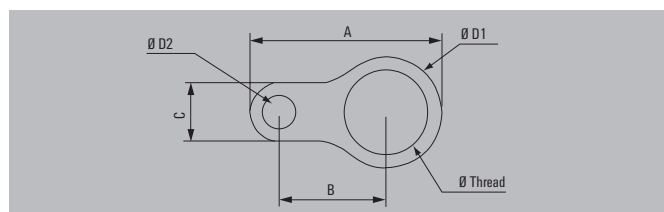
Note Further versions on request

Accessories - Earthing rings

Accessories - Earth tags - Brass - Natural



Earth tags are best used when a cable shielding is being tightened onto the cable gland, and when it has the same potential as another cable gland on the enclosure.



Technical data

Material	Brass
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Note

Ordering data

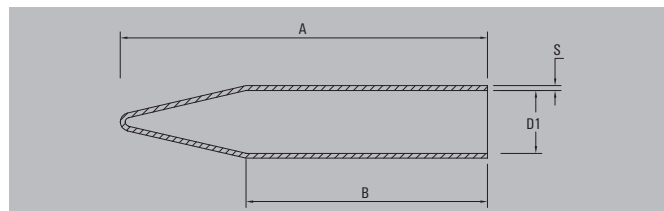
Typ metric	Thread	A	B	C	D1	D2	Qty.	Order No.
EA-RING MS/M16 SC	M 16 / 1.5	50.8	31.80	12.80	16.30	6.90	20	0930710001
EA-RING MS/M20 SC	M 20 / 1.5	54	33.00	12.80	21.80	6.90	20	0930710002
EA-RING MS/M25 SC	M 25 / 1.5	60.2	36.50	12.80	27.30	6.90	20	0930710003
EA-RING MS/M32 SC	M 32 / 1.5	74.6	42.50	22.30	33.80	11.80	20	0930710004
EA-RING MS/M40 SC	M 40 / 1.5	86.7	45.50	31.70	42.70	13.50	10	0930710005
EA-RING MS/M50 SC	M 50 / 1.5	111	58.10	41.30	50.70	13.50	10	0930710006
EA-RING MS/M63 SC	M 63 / 1.5	128.7	66.80	41.30	63.50	13.50	10	0930710007
EA-RING MS/M75 SC	M 75 / 1.5	141.3	73.00	41.30	76.30	13.50	10	0930710008

Note Other versions on request

Accessories - Shrouds - PVC



The cover shroud a cable gland before and after the installation. It also protects against external environmental influences.



Technical data

Material / Colour	PVC / RAL 9005
Temperature range	-25 °C...70 °C
Hardness [Shore A]	65

Note

Ordering data

Typ metric	A	B	D1	S	Qty.	Order No.
KSP L24	120	70.00	25.00	1.50	10	1736570000
KSP L30	110	55.00	30.00	1.50	10	1736580000
KSP L38	160	60.00	37.00	1.50	10	1736590000
KSP L46	160	60.00	46.00	1.50	10	1736600000
KSP L55	160	60.00	55.00	1.50	10	1736610000
KSP L65	210	70.00	65.00	1.50	10	1736620000
KSP L80	240	90.00	80.00	1.50	10	1736630000
KSP L90	240	90.00	90.00	1.50	10	1736640000
KSP EL30*	127.5	75.00	30.00	1.50	10	1736670000
KSP EL38*	168	80.00	38.00	1.50	10	1736680000
KSP EL46*	198	95.00	46.00	1.50	10	1076750000
KSP EL55*	210	105.00	55.00	1.50	10	1076760000
KSP EL65*	250	115.00	65.00	1.50	10	1076770000
KSP EL80*	270	115.00	80.00	2.00	10	1076780000
KSP EL90*	285	120.00	90.00	2.00	10	1076790000

Note

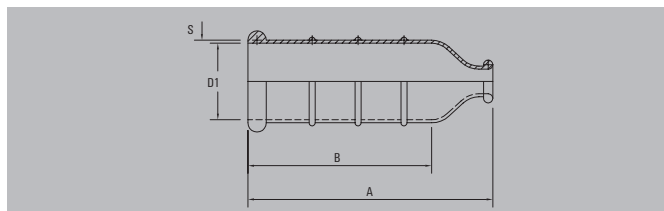
*These shrouds have been specially designed for the Klippon® KDSU and Klippon® KUB cable glands.

Accessories - Shrouds

Accessories - Shrouds - Silicone



The cover shroud a cable gland before and after the installation. It also protects against external environmental influences.



Technical data

Material / Colour	Silicone / RAL 5015
Temperature range	-60 °C...200 °C
Hardness [IRHD]	65

Note

Ordering data

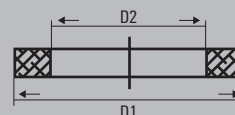
Typ metric	A	B	D1	S	Qty.	Order No.
KSP L24 S	80	60.00	25.00	1.50	10	0930700001
KSP L30 S	80	60.00	30.00	1.50	10	0930700002
KSP L38 S	85	65.00	37.00	1.50	10	0930700003
KSP L46 S	95	70.00	46.00	1.50	10	0930700004
KSP L55 S	95	70.00	55.00	1.50	10	0930700005
KSP L65 S	110	80.00	65.00	1.50	10	0930700006
KSP L80 S	120	90.00	80.00	1.50	10	0930700007
KSP L90 S	140	110.00	90.00	1.50	10	0930700008
KSP L 104 S	160	130.00	104.00	1.50	10	1193940000
KSP L114 S	180	150.00	114.00	1.50	10	1192790000

Note

Accessories - Serrated washers, Stainless steel



Serrated stainless steel washers to prevent mounted cable glands from loosening.



Technical data

Material	Stainless steel 1.4404 (316L)
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Note

Ordering data

Typ metric	Thread	D1	D2	Qty.	Order No.
SZS M16	M 16 / 1.5	25.50	17.30	50	1736300000
SZS M20	M 20 / 1.5	32.40	21.30	10	1736310000
SZS M25	M 25 / 1.5	37.40	25.30	10	1736320000
SZS M32	M 32 / 1.5	48.00	33.00	20	1736330000
SZS M40	M 40 / 1.5	60.00	41.00	5	1736340000
SZS M50	M 50 / 1.5	71.00	51.00	5	1736350000
SZS M63	M 63 / 1.5	87.00	64.00	5	1736360000

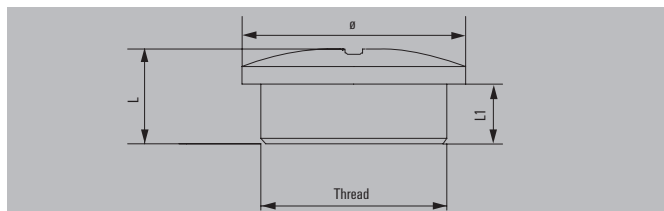
Note

Sealing plugs

Sealing plugs - Plastic



Plastic sealing plug with cross-head is used to seal surplus threaded holes and to maintain the IP protection degree.



Technical data

Material / Colour	Polyamid 6 (PA6 - GF30) / RAL 7035
Temperature range	-40 °C...100 °C
Protection degree	IP 54
Flammability rating	V-2

Note Optional sealing ring

Ordering data

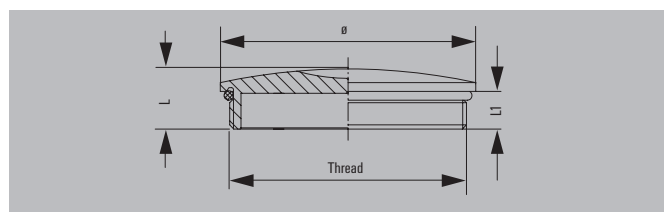
Typ metric	Thread	L	L1	Head Ø	Qty.	Order No.
VP M12 K54	M 12 / 1.5	5.5	6	15.00	100	1776930000
VP M16 K54	M 16 / 1.5	5.5	7	20.00	100	1776920000
VP M20 K54	M 20 / 1.5	6.5	7	24.00	100	1776910000
VP M25 K54	M 25 / 1.5	7	10	30.00	100	1776900000
VP M32 K54	M 32 / 1.5	7	11	37.00	100	1776940000
VP M40 K54	M 40 / 1.5	7	13	46.00	50	1776950000
VP M50 K54	M 50 / 1.5	8.5	14	56.00	25	1776960000
VP M63 K54	M 63 / 1.5	8.5	15	69.50	50	1776970000
PG						
VP 7-K54	PG 7	8	6	15.00	50	1719250000
VP 9-K54	PG 9	9.5	5	19.00	100	0294760000
VP 11-K54	PG 11	10	6.5	22.00	100	0294860000
VP 13.5-K54	PG 13.5	10	5	25.00	100	0294960000
VP 16-K54	PG 16	10	5	27.00	100	0295060000
VP 21-K54	PG 21	12	8	33.00	100	0295160000
VP 29-K54	PG 29	11.5	8	44.00	50	0501160000
VP 36-K54	PG 36	14	10	55.00	25	0501260000
VP 42-K54	PG 42	14	10	62.00	10	0501360000
VP 48-K54	PG 48	16	12	69.00	5	1719260000

Note Other versions available on request. The sealing plugs must be tightened „hand-tight“ with the screwdriver.

Sealing plugs - Brass - Nickel-plated



Brass sealing plug with cross-head is used to seal surplus threaded holes and to maintain the IP protection degree.



Technical data

Material	Brass, nickel-plated
O-Ring	NBR
Temperature range	-40 °C...100 °C
Protection degree	IP 68

Note

Ordering data

Typ metric	Thread	L	L1	Head Ø	Qty.	Order No.
VP M12-MS65	M 12 / 1.5	5	5	14.00	100	1777720000
VP M16-MS65	M 16 / 1.5	8	5	18.00	100	1777730000
VP M20-MS65	M 20 / 1.5	9.5	6.5	22.00	100	1777740000
VP M25-MS65	M 25 / 1.5	11	7	28.00	100	1777750000
VP M32-MS65	M 32 / 1.5	12	8	35.00	50	1777760000
VP M40-MS65	M 40 / 1.5	13	8	44.00	50	1777770000
VP M50-MS65	M 50 / 1.5	15	9	54.00	25	1777780000
VP M63-MS65	M 63 / 1.5	16	10	67.00	10	1777790000
PG						
VP 7-MS65	PG 7	7.5	5	15.00	100	0521600000
VP 9-MS65	PG 9	8	5	18.00	100	0294700000
VP 11-MS65	PG 11	8	5	22.00	100	0294800000
VP 13.5-MS65	PG 13.5	9	6	24.00	100	0294900000
VP 16-MS65	PG 16	9	6	26.00	100	0295000000
VP 21-MS65	PG 21	10	6	32.00	100	0295100000
VP 29-MS65	PG 29	12	8	40.00	50	0501100000
VP 36-MS65	PG 36	15	9	50.00	25	0501200000
VP 42-MS65	PG 42	16	10	57.00	10	0501300000
VP 48-MS65	PG 48	16	10	64.00	5	1719270000

Note

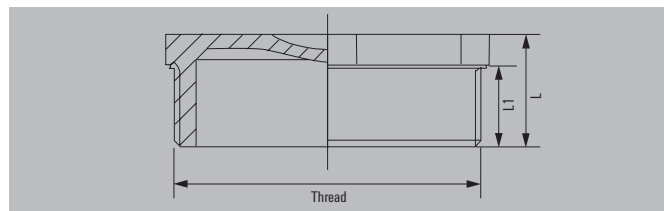
Other versions available on request. The sealing plugs must be tightened „hand-tight“ with the screwdriver.

Sealing plugs

Sealing plugs - Plastic - Ex e



Sealing plug with cross-head is used to seal surplus threaded holes and to maintain the IP protection degree – especially for Ex-e Ex applications.



Technical data

Material / Colour	Polyamide / RAL 9005
Temperature range	-20 °C...80 °C
Protection degree	IP 66
Protection degree with GWDR	IP 68
UL 94 flammability rating	V-2
Approval	II 2 GD, Ex d IIC, Ex e II, Ex tD

Note Optional sealing ring

Ordering data

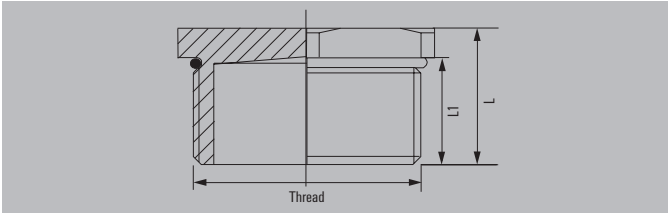
Typ metric	Thread	L	L1	SW	Qty.	Order No.
VP M16-EXE SW	M 16 / 1.5	19	15	19	50	1737070000
VP M20-EXE SW	M 20 / 1.5	19	15	23	50	1737080000
VP M25-EXE SW	M 25 / 1.5	20	15	28	100	1737090000
VP M32-EXE SW	M 32 / 1.5	20.5	15	36	20	1737100000
VP M40-EXE SW	M 40 / 1.5	20.5	15	44	10	1737110000
VP M50-EXE SW	M 50 / 1.5	21	15	54	5	1737120000
VP M63-EXE SW	M 63 / 1.5	23.5	15	67	5	1737130000

Note Refer to the enclosed installation instructions for the tightening torque.

Sealing plugs - Brass - Ex e, Ex d



Sealing plug is used for sealing surplus threaded holes to ensure the IP protection degree - especially for Ex-e and Ex-d applications.



Technical data

Material	Brass, nickel-plated
O-Ring	NBR
Temperature range	-40 °C...100 °C
Protection degree	IP 68
Approval	II 2 GD, Ex d IIC, Ex e II, Ex tD

Note

Ordering data

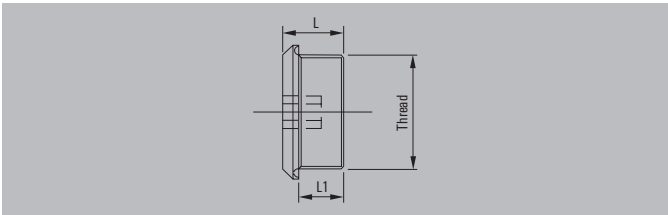
Typ metric	Thread	L	L1	SW	Qty.	Order No.
VP M16 EXE MS	M 16 / 1.5	15	12	17	50	1210890000
VP M20 EXE MS	M 20 / 1.5	15	12	23	50	1210900000
VP M25 EXE MS	M 25 / 1.5	15.5	12	29	25	1210910000
VP M32 EXE MS	M 32 / 1.5	16	12	39	10	1210920000
VP M40 EXE MS	M 40 / 1.5	19	15	45	10	1210930000
VP M50 EXE MS	M 50 / 1.5	20	15	58	5	1210940000
VP M63 EXE MS	M 63 / 1.5	26	19	70	5	1210950000
Note Refer to the enclosed installation instructions for the tightening torque.						

Sealing plugs

Sealing plugs - Brass - Ex e, Ex d, IP 54



Sealing plug with accessible hexagon recess. It is used to seal unused threaded holes so that cable glands can be connected in the future. Approved for use with the pressure-resistant Ex d encapsulation.



Technical data

Material	Brass, nickel-plated
Temperature range	-50 °C...180 °C
Protection degree	IP 54
Approval	ATEX I M2 II 2 GD Ex d I/IIC Mb Gb Ex tb IIIDb IP6X, IECEx Ex d I/IIC & Ex e I/IIC MbGb Ex tb IIC Db IP6X

Note

Ordering data

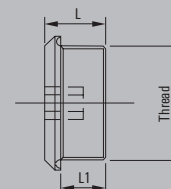
Typ	Thread	L1	Qty.	Order No.
metric				
KSPA M16 BNI	M 16	16	20	0887490000
KSPA M20 BNI	M 20	16	20	0886670000
KSPA M25 BNI	M 25	16	20	0886680000
KSPA M32 BNI	M 32	16	10	0886690000
KSPA M40 BNI	M 40	16	10	0886700000
KSPA M50 BNI	M 50	16	1	0886710000
KSPA M63 BNI	M 63	16	1	1075370000
KSPA M75 BNI	M 75	16	1	1075380000

Note

Sealing plugs - Brass and Stainless steel - Ex e, Ex d, IP 66 / IP 68



Dome head sealing plug with accessible hexagon recess. It is used to seal unused threaded holes so that cable glands can be connected in the future. Available in brass and stainless steel. Approved for use with the pressure-resistant Ex d encapsulation and increased safety Ex e.



Technical data

O-Ring	NBR
Temperature range	-30 °C...100 °C
Protection degree	IP 66, IP 68
Approval	ATEX I M2 II 2 GD Ex d/IIC Mb Gb Ex e I/IIC Mb Gb Ex tb IIC Db IP6X, IECEx Ex d I/IIC & Ex e I/IIC MbGb Ex tb IIC Db IP6X

Note

Ordering data

Typ	Thread	L	L1	Qty.	Order No.
Stainless steel					
KSPM M16 SSC	M 16	21.5	16	20	0887500000
KSPM M20 SSC	M 20	21.5	16	20	0886720000
KSPM M25 SSC	M 25	21.5	16	20	0886730000
KSPM M32 SSC	M 32	21.5	16	10	0886740000
KSPM M40 SSC	M 40	21.5	16	10	0886750000
KSPM M50 SSC	M 50	21.5	16	1	1075510000
KSPM M63 SSC	M 63	21.5	16	1	1075520000
KSPM M75 SSC	M 75	21.5	16	1	1075530000
brass					
KSPM M16 BSC	M 16	21.5	16	20	0887480000
KSPM M20 BSC	M 20	21.5	16	20	0885410000
KSPM M25 BSC	M 25	21.5	16	20	0885420000
KSPM M32 BSC	M 32	21.5	16	10	0885430000
KSPM M40 BSC	M 40	21.5	16	10	0885440000
KSPM M50 BSC	M 50	21.5	16	1	0885450000
KSPM M63 BSC	M 63	21.5	16	1	1075480000
KSPM M75 BSC	M 75	21.5	16	1	1075490000

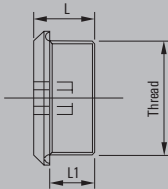
Note

Sealing plugs

Sealing plugs - Plastic - Ex e, IP 66



Sealing plugs with accessible hexagon recess, made from glass-fibre-reinforced nylon. They are used to seal unused threaded holes so that cable glands can be connected in the future – also recommended for Ex applications.



Technical data

Material	Nylon
O-Ring	NBR
Temperature range	-20 °C...40 °C
Protection degree	IP 66
Approval	II 2 GD, Ex e IIC Gb, Ex tb IIIC Db, IP6X

Note

Ordering data

Typ metric	Thread	L	L1	Qty.	Order No.
KSPM M16 PL	M 16 / 1.5	21.5	16	20	1209890000
KSPM M20 PL	M 20 / 1.5	21.5	16	20	1209910000
KSPM M25 PL	M 25 / 1.5	21.5	16	20	1209920000
KSPM M32 PL	M 32 / 1.5	21.5	16	10	1209930000
KSPM M40 PL	M 40 / 1.5	21.5	16	10	1209940000
KSPM M50 PL	M 50 / 1.5	21.5	16	1	1209950000

Note

Adaptors with NPT male threads



Adaptors can be used to connect threaded holes and cable glands of different thread sizes and types.

Technical data

Material	Brass, nickel-plated
Temperature range	-40 °C...100 °C
Protection degree	IP 54
Approval	II 2 GD, Ex d IIC, Ex e II, Ex tD

Ordering data

External thread	1/2" NPT	3/4" NPT	1" NPT	1 1/4" NPT	1 1/2" NPT	2" NPT	2 1/2" NPT	3" NPT
Inner thread	Order No.	Order No.	Order No.	Order No.	Order No.	Order No.	Order No.	Order No.
M16	1737490000					1737440000	1737430000	1737420000
M20	1737650000	1737640000	1737630000			1737600000	1737590000	1737580000
M25	1737810000	1737800000	1737790000			1737760000	1737750000	1737740000
M32		1737950000				1737910000	1737900000	1737890000
M40			1738070000			1738040000	1738030000	1738020000
M50						1738150000	1738140000	1738130000
M63						1738240000	1738230000	1738220000
M75						1738310000	1738300000	1738290000
1/2" NPT	1738410000	1738400000	1738390000	1738380000	1738370000	1738360000	1738350000	1738340000
3/4" NPT	1738570000	1738560000	1738550000	1738540000	1738530000	1738520000	1738510000	1738500000
1" NPT			1738700000	1738690000	1738680000	1738670000	1738660000	1738650000
1 1/4" NPT			1738820000	1738810000	1738800000	1738790000	1738780000	1738770000
1 1/2" NPT				1738920000	1738910000	1738900000	1738890000	1738880000
2" NPT						1738990000	1738980000	1738970000
2 1/2" NPT						1739060000	1739050000	1739040000
3" NPT							1739100000	1739090000

Note Qty. = 1

Adaptors

Adaptors with metric male threads



Adaptors can be used to connect threaded holes and cable glands of different thread sizes and types.

Technical data

Material	Brass, nickel-plated
Temperature range	-40 °C...100 °C
Protection degree	IP 54
Approval	II 2 GD, Ex d IIC, Ex e II, Ex tD

Ordering data

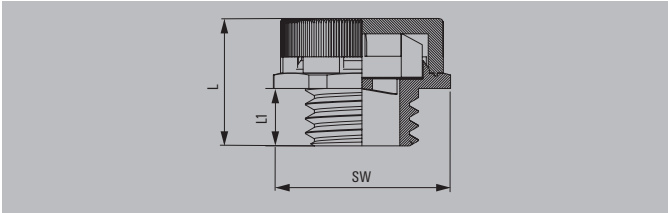
External thread	M 16	M 20	M 25	M 32	M 40	M 50	M 63	M 75
Inner thread	Order No.	Order No.	Order No.	Order No.	Order No.	Order No.	Order No.	Order No.
M16		1737560000	1737550000	1737540000	1737530000	1737520000	1737510000	1737500000
M20	1737730000	1737720000	1737710000	1737700000	1737690000	1737680000	1737670000	1737660000
M25		1737880000		1737860000	1737850000	1737840000	1737830000	1737820000
M32			1738010000		1737990000	1737980000	1737970000	1737960000
M40				1738120000	1738110000	1738100000	1738090000	1738080000
M50					1738210000		1738190000	1738180000
M75						1738280000	1738330000	1738260000
1/2" NPT		1738480000		1738460000	1738450000	1738440000	1738430000	1738420000
3/4" NPT		1738640000	1738630000		1738610000	1738600000	1738590000	1738580000
1" NPT			1738760000	1738750000	1738740000	1738730000	1738720000	1738710000
1 1/4" NPT				1738870000		1738850000	1738840000	1738830000
1 1/2" NPT							1738940000	1738930000
2" NPT								1739010000
2 1/2" NPT							1739080000	1739070000
3" NPT								1739110000

Note Qty. = 1

Compensation elements - Plastic - DAE



The DAE pressure-compensation element provides good ventilation for the enclosure and prevents moisture build-up. At the same time it maintains the high IP 69k protection level. The membrane repels water and oil.



Technical data

Material / Colour	Polyamide 6 / RAL 9005
O-Ring	NBR
Temperature range	-40 °C...105 °C
Protection degree	IP 66, IP 68, IP 69K
Air flow	0.8 l/min at 0.1 bar ΔP, up to 7.6 l/min at 1bar ΔP
Wasser inlet point	> 1.5 bar
UL 94 flammability rating	V-2

Note

Ordering data

Typ	Thread	L	L1	SW	Qty.	Order No.
metric						
DAE M12 PA long	M 12 / 1.5	17.4	10	17	10	1868570000
DAE M12 PA short	M 12 / 1.5	13.4	6	17	10	1868560000

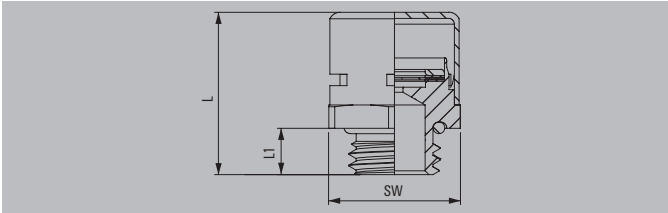
Note Light grey version - RAL 7035 - on request

Compensating elements

Compensation elements - Stainless steel - DAE



The DAE pressure-compensation element provides good ventilation for the enclosure and prevents moisture build-up. At the same time it maintains the high IP 69k protection level. The membrane repels water and oil.



Technical data

Material	Stainless steel
O-Ring	NBR
Temperature range	-40 °C...105 °C
Protection degree	IP 66, IP 68, IP 69K
Air flow	0.8 l/min at 0.1 bar ΔP, up to 7.6 l/min at 1bar ΔP
Wasser inlet point	> 1.5 bar

Note

Ordering data

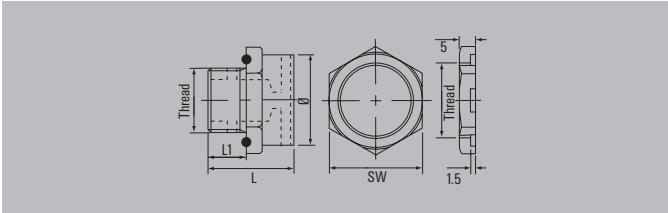
Typ	Thread	L	L1	SW	Qty.	Order No.
metric						
DAE M12 SS	M 12 / 1.5	21.1	10	17	10	1868550000

Note

Compensation elements - BD 1



The BD1 compensation element can be used for enclosure ventilation and to prevent moisture build-up. It is specially designed for Ex applications.



Technical data

O-Ring	NBR
Temperature range	-30 °C...85 °C
Protection degree	IP 66
Filter	HDPE insert
Approval	Ex e II, II 2 GD

Note

Ordering data

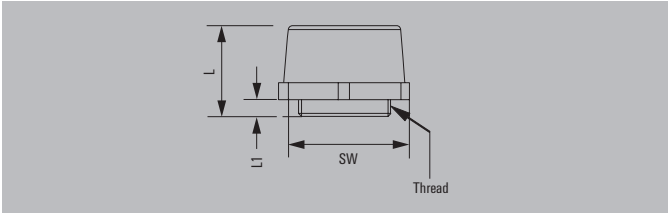
Typ	Thread	L	L1	SW	Qty.	Order No.
metric, brass						
BD 1 brass	M 20 / 1.5	25	10	29	1	3080760000
metric, stainless steel 1.4404 316L						
BD 1 ss	M 20 / 1.5	25	10	29	1	3080770000
Note						

Compensating elements

Compensation elements - EWS



We recommend using the EWS drainage plug in order to drain moisture out of the enclosure. This component is not suitable for providing ventilation to the enclosure.



Technical data

Material / Colour	Polyamide / RAL 9005
Temperature range	-20 °C...40 °C
Protection degree	IP 54
Flammability rating	V-2
Approval	Ex e II, II 2 GD

Note	Installed at the lowest point from the bottom in the wall of the enclosure Minimum enclosure wall thickness of 4 mm must be maintained.
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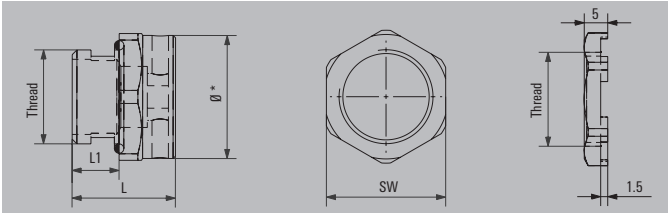
Ordering data

Typ	Thread	L	L1	SW	Qty.	Order No.
metric						
EWS M 25X1.5	M 25 / 1.5	23	5	30	20	1719740000
Note						

Breather drains – Klippon® BDX



The BDX compensating element is used for ventilating the enclosure and preventing a build up of moisture, particularly in Ex applications.



Technical data

Material	Stainless steel 1.4404 (316L) or brass CuZnPb (CZ121)
IP class	IP 66
Impact resistance	20 J
Filter	sintered bronze
Flow rate	0.25 Litres per hour
Sealing ring	silicone O-ring
Temperature range	-60 °C to +200 °C
Plating	natural
Torque	10 Nm
Note - The breather-drain is only to be fitted on the bottom side of the enclosure, aligned vertically with the thread upwards, and at the lowest point to permit proper drainage. - Fully assembly instructions are supplied with the breather drain. The instructions must be read prior to installation and adhered to in full. - The water flow rate has been tested by a water filled empty enclosure (no pressure or heat producing internal components). The water flow rate can slightly differ by influences from operational parameter and environmental conditions.	

Ordering data

Type	Material	Thread	L/L1	SW	Diameter Ø*	Order No.
KLIPPON BDX M20 B	brass	M20 x 1.5	22/10	27	26.2	1292540000
KLIPPON BDX M20 S	stainless steel	M20 x 1.5	22/10	27	26.2	1292530000
KLIPPON BDX M20X15 S	stainless steel	M20 x 1.5	27/15	27	26.2	1344630000
Note			Dimensions in mm			

