

CABLE GLANDS





HUMMEL – smart & reliable



HUMMEL AG is a renowned manufacturer of connection technology and components for electric and heating areas. The medium sized family business stands for quality, precision, reliability and pronounced service consciousness. A wide vertical range of manufacture with in-house development, construction, toolmaking, manufacturing, electroplating and assembling from a single source, offers best conditions for implementing individual solutions.





- // Conforming to RoHS and REACH / SVHC
- // Free of conflict minerals
- // Halogen- and phosphorous-free

- // Fire protection class V0 according to UL 94
- // Outdoor durable polyamide according to UL 746C f1 (HSK-K black)
- // Protection IP 66 and IP 68 – 10 bar according to DIN EN 60529
- // Protection IP 69K according to DIN 40050-9
- // Patented ratchet and spline secures

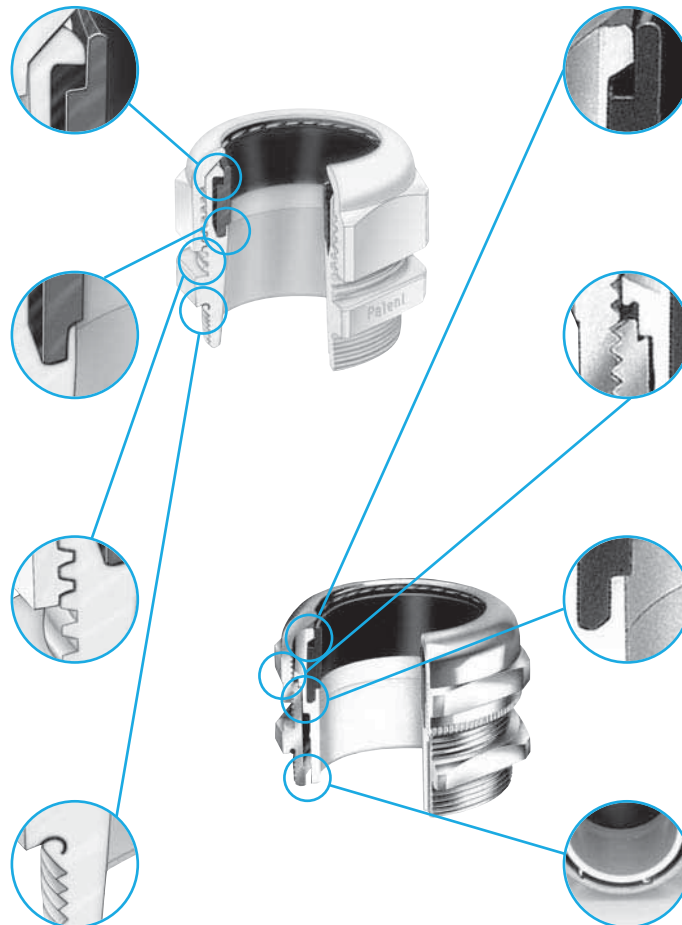
HSK-K

Flexible overlapping clamping splines prevent the form seal from being pulled out of the fitting

The form seal allows for an IP 68 (10 bar) rating

The rugged lead screw results in a dependable transmission of force between nut and body

The concentric seal ridge and molded groove for an optional O-Ring results in a liquid tight seal between body and housing



HSK-M

Flexible overlapping clamping splines prevent the form seal from being pulled out of the fitting

The internal sealing edge results in a superior seal between the splined Nylon clamping insert and the nickel plated brass body

The form seal allows for an IP 68 (10 bar) rating

Rotation of the cable during installation is prevented due to the internal splines



// Conforming to RoHS and REACH / SVHC

// Free of conflict minerals

// Halogen- and phosphorus-free

// Fire protection class V0 according to UL 94

// Protection IP 66 and IP 68 – 10 bar according to DIN EN 60529

// Protection IP 69K according to DIN 40050-9

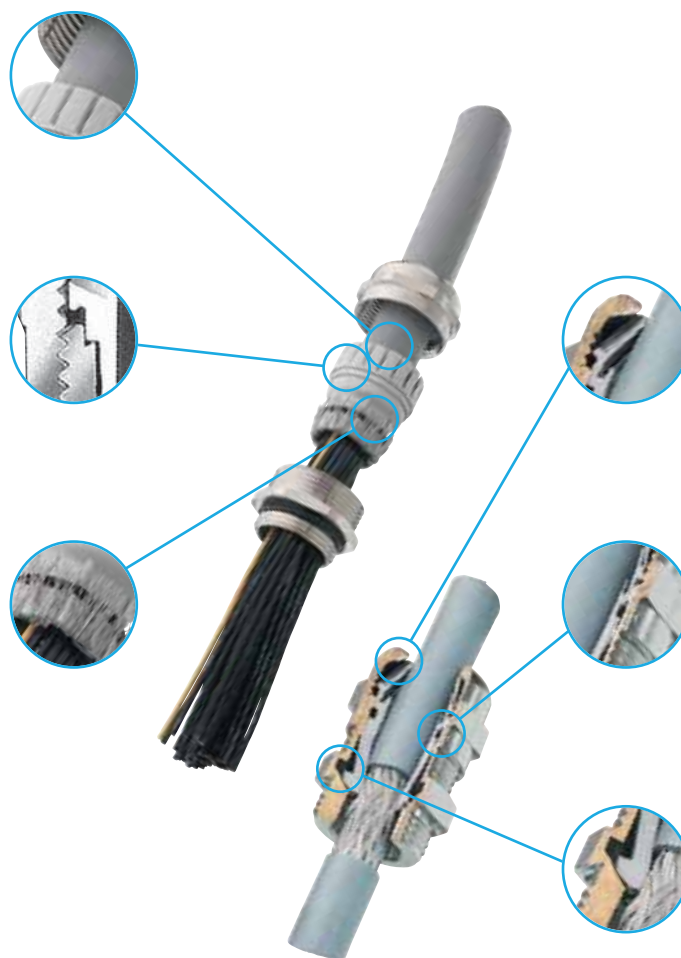
// Quick assembly and reliable grounding of shielded cables

HSK-M-EMC

Flexible overlapping clamping splines prevent the form seal from being pulled out of the fitting

The internal sealing edge results in a superior seal between the splined Nylon clamping insert and the nickel plated brass body

Patented 360° grounding due to the internal O-Ring, which results in a perfect contact between braided shield of cable and fitting



HSK-M-EMC-D

Flexible overlapping clamping splines prevent the form seal from being pulled out of the fitting

Metalised spline insert provides electrical conductivity

Flexible contact points allow contact with variable braid diameters

HSK-INOX HYGIENIC-DESIGN

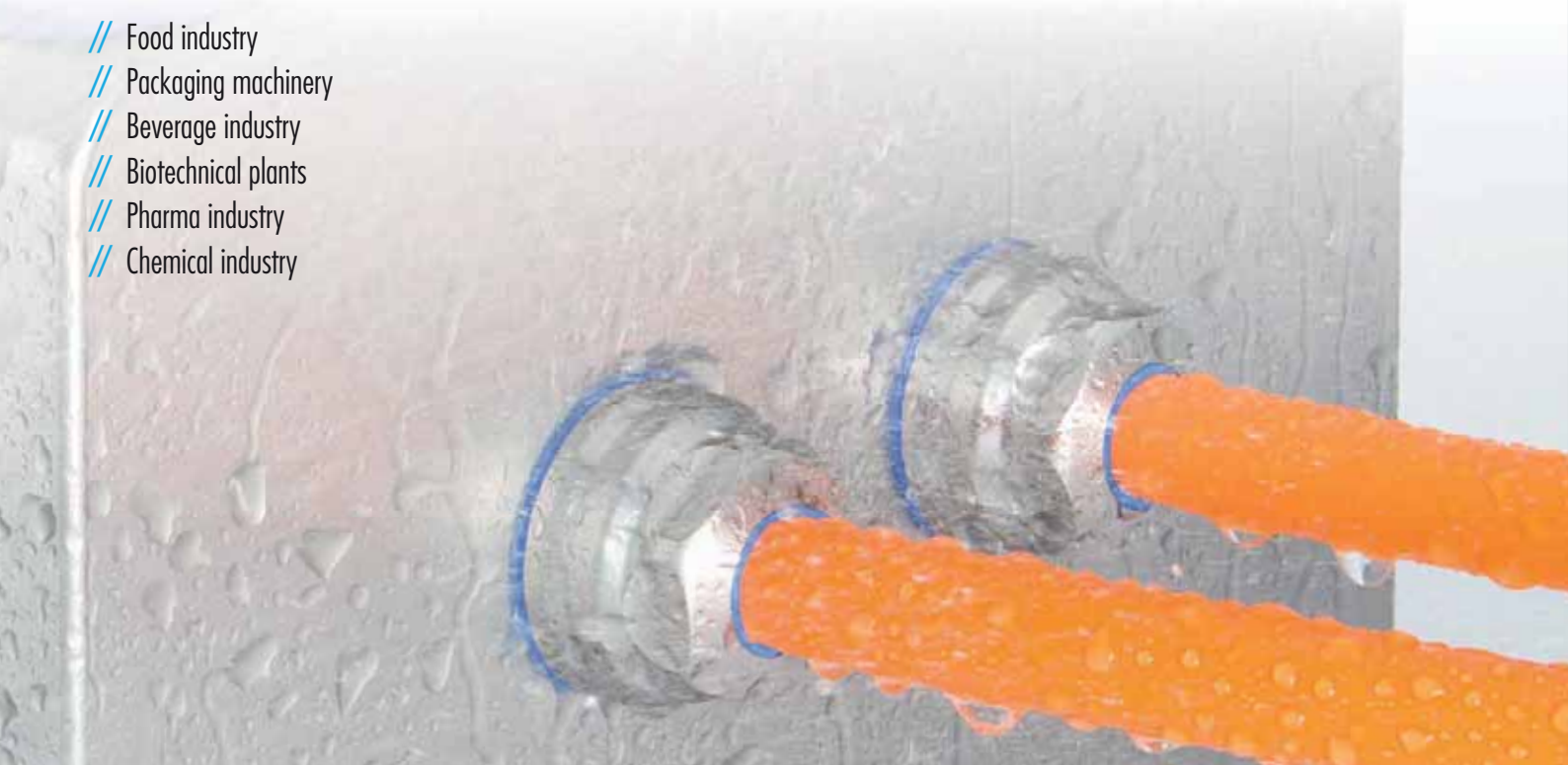
HSK-INOX-HD-Pro // HSK-INOX-HD

Cope with all hygienic requirements

The hygienic design Cable Glands of HUMMEL AG have been developed for applications with special requirements. They are used in areas where high hygienic standards for cleaning are demanded. These are areas where deposits of bacteria and microorganisms need to be avoided.

Fields of application

- // Food industry
- // Packaging machinery
- // Beverage industry
- // Biotechnical plants
- // Pharma industry
- // Chemical industry



HSK-INOX-HD-Pro



Recommended in all areas, which are cleaned by high-pressure cleaning:
HSK-INOX-HD-Pro

HSK-INOX-HD



Excellent solution for applications, which are cared with foam-cleaning:
HSK-INOX-HD



HSK-INOX-HD-Pro: One without corners and edges

- // EHEDG-certified
- // High-pressure tested (IP 69K)
- // Free of halogens and phosphate
- // Operating temperature -40 °C to +120 °C (-40 °F to +248 °F)

The approved HUMMEL-advantages

- // Fast and easy assembly without special tools
- // Surface roughness $\leq Ra 0,8 \mu m$
- // Resistant stainless steel enclosure
- // High chemical resistance

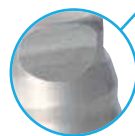
The elastic membrane sealing avoids cable slipping



Easy cleaning, because of missing corners and edges.



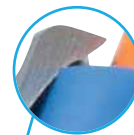
Resistant enclosure made of stainless steel (AISI 316L)



High-quality silicone sealing



High strain relief



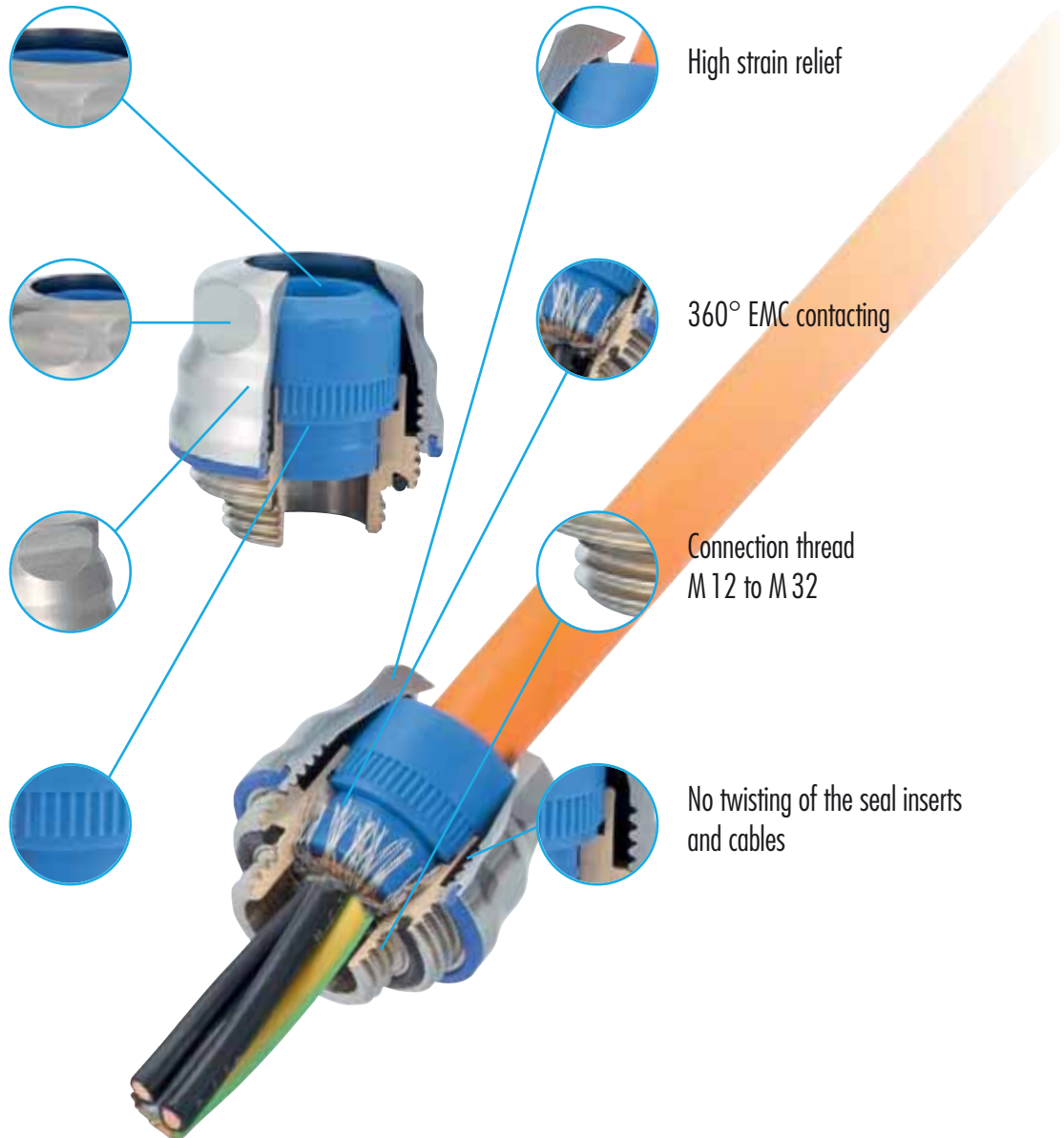
360° EMC contacting



Connection thread M 12 to M 32



No twisting of the seal inserts and cables



HSK-K-Ex-ACTIVE

HSK-K-Ex-Active // HSK-K-Multi-Ex-Active // HSK-K-FLAKA-Ex-Active

Cable gland made of polyamide for hazardous areas according to the latest standards

The HSK-K-Ex-Active has been developed to meet the stringent requirements of EN 60079-0: 2012. The cable gland, made of special formulated fibreglass reinforced polyamide, combines all features of the established HSK-K-Ex series and the latest approvals according to ATEX and IECEx.

The HSK-K-Ex-Active has been designed for applications in electrical equipment, which require types of protection Ex e and Ex t according to the latest standards EN 60079-0, 60079-7 and 60079-31.

// Zones 1, 2, 20, 21, 22

// Sizes: M 12 – M 63, NPT 3/8" – NPT 1 1/2"

// Temperature Range: -20°C – 85°C (-4°F – 185°F)

// EC-Type Examination Certificate: BVS 14 ATEX E 025 X

// IECEx Certificate of Conformity: IECEx BVS 14.0020X

// Marking:

II 2G Ex eb IIC Gb

II 1D Ex ta IIIC Da

// According to the latest EN Standards:

EN 60079-0: 2012 IEC 60079-0: 2011

EN 60079-7: 2007 IEC 60079-7: 2015

EN 60079-31: 2014 IEC 60079-31: 2013

EN 60529



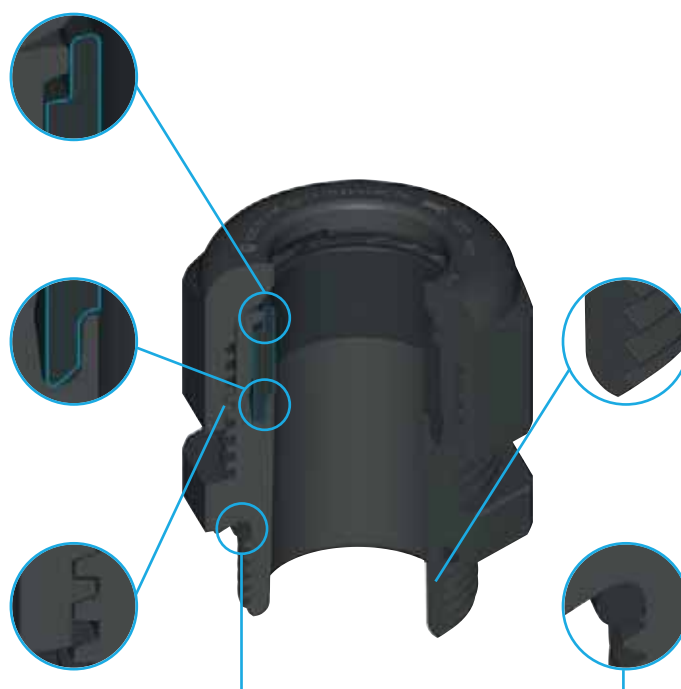


- // Halogen-free
- // Protection IP 68 – 10 bar according to DIN EN 60529
- // Vibration-protected dome nut
- // Wide clamping range
- // Applicable up to +85° C (185° F)
- // Abrasion resistant marking
- // O-Ring as standard
- // Applicable in zone 1 and zone 20

Overlapping clamping splines avoid tearing out the gland seal and ensure an extremely high integrated strain-relief

Form seal for reliable sealing at protection class IP 68 up to 10 bar

HUMMEL acme screw thread for dependable transmission of force between dome nut and gland body



Molded O-Ring groove results in a reliable tightening between gland body and installation

Smooth internal shape for easy assembling and ideal protection of the cable sheath

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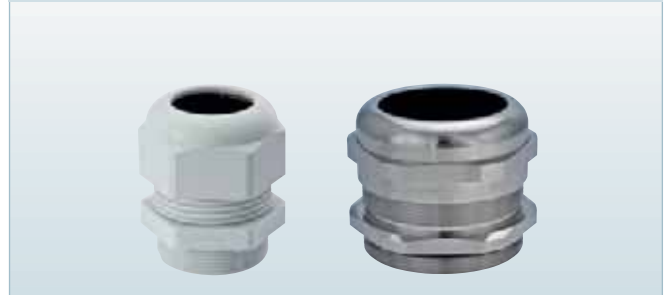
HSK cable glands for special applications

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METRICA cable glands

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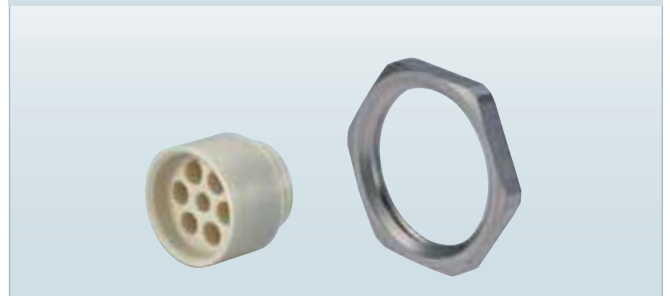
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Cable glands for hazardous areas

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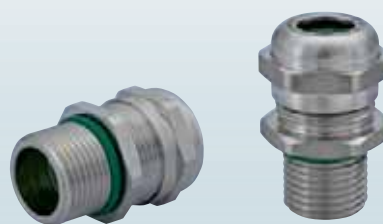
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CABLE PROTECTION SYSTEMS

Reliable protection for cables

In industry, cables and wires are exposed to exceptional loads. Heat and cold, tensile and compressive loads, and wear-and-tear cause damage to cables and can result in malfunctions and loss of production. HUMMEL AG cable protection conduits provide reliable protection. Like a chameleon, the cable protection range is extremely versatile. The plastic range and the galvanised steel protective tubing range offer suitable solutions for every application. A wide range of fittings makes it easy for planners and designers to find the right answer for every requirement.

- // **Polyamide-Conduit** – the flexible polyamide cable conduit
- // **Metal-Conduit** – cable conduit made of galvanised steel
- // **Metal-Conduit Pro** – multi-layer variants for heavy loads
- // **Polyamide-Fitting** – fittings, designed for every type of installation
- // **Metal-Fitting** – ideal for all metal protective conduits
- // **Metal-Fitting Pro** – fittings for exceptionally robust usage



Complete catalog with all details and information
on our homepage (www.hummel.com)



INDUSTRIAL CABLE GLANDS

HSK cable glands

Cable glands of the HSK-series fulfil the highest demands of quality and security. Outstanding high-grade materials are used together with innovative technology to offer premium products.

You can find in this chapter:

HSK cable gland, made of

- // Polyamide
- // PVDF
- // Nickel plated brass
- // Various grades of stainless steel

We provide variable clamping ranges, thread lengths, thread types plus different sealing materials and temperature ranges. Our range is completed by global certifications.

If there are still open requests from your side, please contact us. We are looking forward to developing solutions together. You profit from our vast knowledge in development, engineering and production technology.

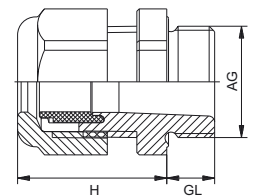




Material	Polyamide VO according to UL 94
Seal	Buna-N
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG) with additional O-Ring
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)
Colors	grey (RAL 7035), black (RAL 9005), blue (RAL 5012) for the intrinsic safety „i”



- // With additional pre-assembled O-Ring upon request
- // Please find suitable O-Ring on page 90
- // Other sealing material e.g. Silicone upon request
- // Other colors on request



AG	∅ mm	GL mm	H mm	mm	Number grey	Number black	Number blue
M 12 x 1,5	3–6,5	8	21	15	1.209.1200.50	1.209.1201.50	1.209.1202.50
M 12 x 1,5	2–5	8	21	15	1.209.1200.51	1.209.1201.51	1.209.1202.51
M 16 x 1,5	4–8	8	22	19	1.209.1600.50	1.209.1601.50	1.209.1602.50
M 16 x 1,5	2–6	8	22	19	1.209.1600.51	1.209.1601.51	1.209.1602.51
M 16 x 1,5	5–10	8	25	22	1.219.1600.50	1.219.1601.50	1.219.1602.50
M 20 x 1,5	6–12	9	27	24	1.209.2000.50	1.209.2001.50	1.209.2002.50
M 20 x 1,5	5–9	9	27	24	1.209.2000.51	1.209.2001.51	1.209.2002.51
M 20 x 1,5	10–14	9	28	27	1.219.2000.50	1.219.2001.50	1.219.2002.50
M 25 x 1,5	13–18	11	31	30	1.219.2500.50	1.219.2501.50	1.219.2502.50
M 25 x 1,5	13–18	11	31	33	1.209.2500.50	1.209.2501.50	1.209.2502.50
M 25 x 1,5	9–16	11	31	33	1.209.2500.51	1.209.2501.51	1.209.2502.51
M 32 x 1,5	15–21	11	39	36	1.219.3200.50	1.219.3201.50	1.219.3202.50
M 32 x 1,5	18–25	11	39	42	1.209.3200.50	1.209.3201.50	1.209.3202.50
M 32 x 1,5	13–20	11	39	42	1.209.3200.51	1.209.3201.51	1.209.3202.51
M 40 x 1,5	19–27	13	47	46	1.219.4000.50	1.219.4001.50	1.219.4002.50
M 40 x 1,5	22–32	13	48	53	1.209.4000.50	1.209.4001.50	1.209.4002.50
M 40 x 1,5	20–26	13	48	53	1.209.4000.51	1.209.4001.51	1.209.4002.51
M 50 x 1,5	32–38	13	49	60	1.209.5000.50	1.209.5001.50	1.209.5002.50
M 50 x 1,5	25–31	13	49	60	1.209.5000.51	1.209.5001.51	1.209.5002.51
M 63 x 1,5	37–44	14	49	65 / 68	1.209.6300.50	1.209.6301.50	1.209.6302.50
M 63 x 1,5	29–35	14	49	65 / 68	1.209.6300.51	1.209.6301.51	1.209.6302.51

HSK-K

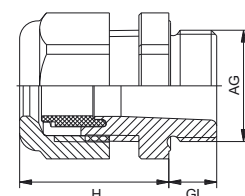
Metr.-elongated



Material	Polyamide VO according to UL 94
Seal	Buna-N
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG) with additional O-Ring
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)
Colors	grey (RAL 7035), black (RAL 9005), blue (RAL 5012) for the intrinsic safety „I”



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- // Other sealing material e.g. Silicone upon request
- // Other colors on request



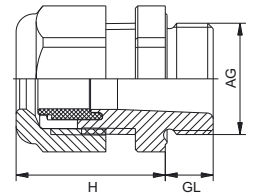
AG	∅k mm	GL mm	H mm	⌀ mm	Number grey	Number black	Number blue
M 12 x 1,5	3–6,5	15	21	15	1.209.1200.30	1.209.1201.30	1.209.1202.30
M 12 x 1,5	2–5	15	21	15	1.209.1200.31	1.209.1201.31	1.209.1202.31
M 16 x 1,5	4–8	15	22	19	1.209.1600.30	1.209.1601.30	1.209.1602.30
M 16 x 1,5	2–6	15	22	19	1.209.1600.31	1.209.1601.31	1.209.1602.31
M 16 x 1,5	5–10	15	25	22	1.219.1600.30	1.219.1601.30	1.219.1602.30
M 20 x 1,5	6–12	15	27	24	1.209.2000.30	1.209.2001.30	1.209.2002.30
M 20 x 1,5	5–9	15	27	24	1.209.2000.31	1.209.2001.31	1.209.2002.31
M 20 x 1,5	10–14	15	28	27	1.219.2000.30	1.219.2001.30	1.219.2002.30
M 25 x 1,5	13–18	15	31	33	1.209.2500.30	1.209.2501.30	1.209.2502.30
M 25 x 1,5	9–16	15	31	33	1.209.2500.31	1.209.2501.31	1.209.2502.31
M 32 x 1,5	18–25	15	39	42	1.209.3200.30	1.209.3201.30	1.209.3202.30
M 32 x 1,5	13–20	15	39	42	1.209.3200.31	1.209.3201.31	1.209.3202.31
M 40 x 1,5	22–32	18	48	53	1.209.4000.30	1.209.4001.30	1.209.4002.30
M 40 x 1,5	20–26	18	48	53	1.209.4000.31	1.209.4001.31	1.209.4002.31
M 50 x 1,5	32–38	18	49	60	1.209.5000.30	1.209.5001.30	1.209.5002.30
M 50 x 1,5	25–31	18	49	60	1.209.5000.31	1.209.5001.31	1.209.5002.31
M 63 x 1,5	37–44	18	49	65 / 68	1.209.6300.30	1.209.6301.30	1.209.6302.30
M 63 x 1,5	29–35	18	49	65 / 68	1.209.6300.31	1.209.6301.31	1.209.6302.31



Material	Polyamide VO according to UL 94
Seal	Buna-N
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG) with additional O-Ring
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)
Colors	grey (RAL 7035), black (RAL 9005), blue (RAL 5012) for the intrinsic safety „i“



- // With additional pre-assembled O-Ring upon request
- // Please find suitable O-Ring on page 90
- // Other sealing material e.g. Silicone upon request
- // Other colors on request



AG	\varnothing mm	GL mm	H mm	\varnothing mm	Number grey	Number black	Number blue
PG 7	3–6,5	8	21	15	1.209.0700.14	1.209.0701.14	1.209.0702.14
PG 7	2–5	8	21	15	1.209.0700.15	1.209.0701.15	1.209.0702.15
PG 9	4–8	8	22	19	1.209.0900.14	1.209.0901.14	1.209.0902.14
PG 9	2–6	8	22	19	1.209.0900.15	1.209.0901.15	1.209.0902.15
PG 11	5–10	8	25	22	1.209.1100.14	1.209.1101.14	1.209.1102.14
PG 11	3–7	8	25	22	1.209.1100.15	1.209.1101.15	1.209.1102.15
PG 13,5	6–12	9	27	24	1.209.1300.14	1.209.1301.14	1.209.1302.14
PG 13,5	5–9	9	27	24	1.209.1300.15	1.209.1301.15	1.209.1302.15
PG 16	10–14	10	28	27	1.209.1600.14	1.209.1601.14	1.209.1602.14
PG 16	7–12	10	28	27	1.209.1600.15	1.209.1601.15	1.209.1602.15
PG 21	13–18	11	31	33	1.209.2100.14	1.209.2101.14	1.209.2102.14
PG 21	9–16	11	31	33	1.209.2100.15	1.209.2101.15	1.209.2102.15
PG 29	18–25	11	39	42	1.209.2900.14	1.209.2901.14	1.209.2902.14
PG 29	13–20	11	39	42	1.209.2900.15	1.209.2901.15	1.209.2902.15
PG 36	22–32	13	48	53	1.209.3600.14	1.209.3601.14	1.209.3602.14
PG 36	20–26	13	48	53	1.209.3600.15	1.209.3601.15	1.209.3602.15
PG 42	32–38	13	49	60	1.209.4200.14	1.209.4201.14	1.209.4202.14
PG 42	25–31	13	49	60	1.209.4200.15	1.209.4201.15	1.209.4202.15
PG 48	37–44	14	49	65	1.209.4800.14	1.209.4801.14	1.209.4802.14
PG 48	29–35	14	49	65	1.209.4800.15	1.209.4801.15	1.209.4802.15

HSK-K

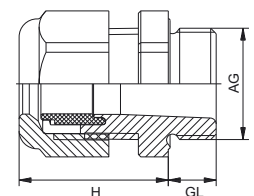
PG-elongated



Material	Polyamide VO according to UL 94
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Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)
Colors	grey (RAL 7035), black (RAL 9005), blue (RAL 5012) for the intrinsic safety „I“



- // With additional pre-assembled O-Ring upon request
- // Please find suitable O-Ring on page 90
- // Other sealing material e.g. Silicone upon request
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AG	∅ _k mm	GL mm	H mm	∅ _h mm	Number grey	Number black	Number blue
PG 7	3–6,5	15	21	15	1.209.0700.60	1.209.0701.60	1.209.0702.60
PG 7	2–5	15	21	15	1.209.0700.61	1.209.0701.61	1.209.0702.61
PG 9	4–8	15	22	19	1.209.0900.60	1.209.0901.60	1.209.0902.60
PG 9	2–6	15	22	19	1.209.0900.61	1.209.0901.61	1.209.0902.61
PG 11	5–10	15	25	22	1.209.1100.60	1.209.1101.60	1.209.1102.60
PG 11	3–7	15	25	22	1.209.1100.61	1.209.1101.61	1.209.1102.61
PG 13,5	6–12	15	27	24	1.209.1300.60	1.209.1301.60	1.209.1302.60
PG 13,5	5–9	15	27	24	1.209.1300.61	1.209.1301.61	1.209.1302.61
PG 16	10–14	15	28	27	1.209.1600.60	1.209.1601.60	1.209.1602.60
PG 16	7–12	15	28	27	1.209.1600.61	1.209.1601.61	1.209.1602.61
PG 21	13–18	15	31	33	1.209.2100.60	1.209.2101.60	1.209.2102.60
PG 21	9–16	15	31	33	1.209.2100.61	1.209.2101.61	1.209.2102.61
PG 29	18–25	15	39	42	1.209.2900.60	1.209.2901.60	1.209.2902.60
PG 29	13–20	15	39	42	1.209.2900.61	1.209.2901.61	1.209.2902.61
PG 36	22–32	18	48	53	1.209.3600.60	1.209.3601.60	1.209.3602.60
PG 36	20–26	18	48	53	1.209.3600.61	1.209.3601.61	1.209.3602.61
PG 42	32–38	18	49	60	1.209.4200.60	1.209.4201.60	1.209.4202.60
PG 42	25–31	18	49	60	1.209.4200.61	1.209.4201.61	1.209.4202.61
PG 48	37–44	18	49	65	1.209.4800.60	1.209.4801.60	1.209.4802.60
PG 48	29–35	18	49	65	1.209.4800.61	1.209.4801.61	1.209.4802.61

HSK CABLE GLANDS

HSK-K

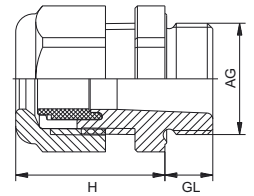
NPT



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Colors	grey (RAL 7035), black (RAL 9005) blue (RAL 5012) for the intrinsic safety „i“



- // With additional pre-assembled O-Ring upon request
- // Please find suitable O-Ring on page 90
- // Other sealing material e.g. Silicone upon request
- // Other colors on request



AG	∅ mm	GL mm	H mm	⌀ mm	Number grey	Number schwarz	Number blue
NPT 3/8"	4–8	15	22	19 / 22	1.209.3800.70	1.209.3801.70	1.209.3802.70
NPT 3/8"	2–6	15	22	19 / 22	1.209.3800.71	1.209.3801.71	1.209.3802.71
NPT 1/2"	6–12	13	27	24	1.209.1200.70	1.209.1201.70	1.209.1202.70
NPT 1/2"	5–9	13	27	24	1.209.1200.71	1.209.1201.71	1.209.1202.71
NPT 1/2" (16)	10–14	13	28	27	1.209.1216.70	1.209.1217.70	1.209.1218.70
NPT 1/2" (16)	7–12	13	28	27	1.209.1216.71	1.209.1217.71	1.209.1218.71
NPT 3/4"	13–18	14	31	33	1.209.3400.70	1.209.3401.70	1.209.3402.70
NPT 3/4"	9–16	14	31	33	1.209.3400.71	1.209.3401.71	1.209.3402.71
NPT 1"	18–25	19	39	42	1.209.1000.70	1.209.1001.70	1.209.1002.70
NPT 1"	13–20	19	39	42	1.209.1000.71	1.209.1001.71	1.209.1002.71
NPT 1 1/4"	18–25	16	39	42 / 46	1.209.5400.70	1.209.5401.70	1.209.5402.70
NPT 1 1/4"	13–20	16	39	42 / 46	1.209.5400.71	1.209.5401.71	1.209.5402.71
NPT 1 1/2"	22–32	20	48	53	1.209.6400.70	1.209.6401.70	1.209.6402.70
NPT 1 1/2"	20–26	20	48	53	1.209.6400.71	1.209.6401.71	1.209.6402.71

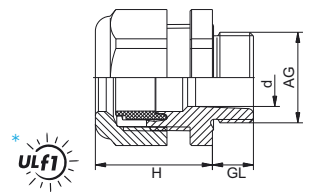
HSK-KE

PG



- // With additional pre-assembled O-Ring upon request
- // Please find suitable O-Ring on page 90
- // Other sealing material and colors upon request
- // * in black color

Material	Polyamide VO according to UL 94
Seal	Buna-N
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG) with additional O-Ring
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)
Colors	grey (RAL 7035), black (RAL 9005)



AG	\varnothing mm	d mm	GL mm	H mm	\varnothing mm	Number grey	Number black
PG 7	4–8	7	8	22	19	1.590.0700.14	1.590.0701.14
PG 7	2–6	7	8	22	19	1.590.0700.15	1.590.0701.15
PG 9	5–10	9	8	25	22	1.590.0900.14	1.590.0901.14
PG 9	3–7	9	8	25	22	1.590.0900.15	1.590.0901.15
PG 11	6–12	10,5	8	24	24	1.590.1100.14	1.590.1101.14
PG 11	5–9	10,5	8	24	24	1.590.1100.15	1.590.1101.15
PG 13,5	10–14	12,5	9	28	27	1.590.1300.14	1.590.1301.14
PG 13,5	7–12	12,5	9	28	27	1.590.1300.15	1.590.1301.15
PG 16	13–18	15	10	31	33	1.590.1600.14	1.590.1601.14
PG 16	9–16	15	10	31	33	1.590.1600.15	1.590.1601.15

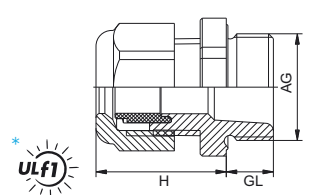
HSK-KR

PG



- // With additional pre-assembled O-Ring upon request
- // Please find suitable O-Ring on page 90
- // Other sealing material and colors upon request
- // * in black color

Material	Polyamide VO according to UL 94
Seal	Buna-N
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG) with additional O-Ring
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)
Colors	grey (RAL 7035), black (RAL 9005)



AG	\varnothing mm	GL mm	H mm	\varnothing mm	Number grey	Number black
PG 9	3–6,5	8	21	19	1.591.0900.14	1.591.0901.14
PG 9	2–5	8	21	19	1.591.0900.15	1.591.0901.15
PG 11	4–8	8	22	22	1.591.1100.14	1.591.1101.14
PG 11	2–6	8	22	22	1.591.1100.15	1.591.1101.15
PG 13,5	5–10	9	25	24	1.591.1300.14	1.591.1301.14
PG 13,5	3–7	9	25	24	1.591.1300.15	1.591.1301.15
PG 16	6–12	10	27	27	1.591.1600.14	1.591.1601.14
PG 16	5–9	10	27	27	1.591.1600.15	1.591.1601.15
PG 21	10–14	11	28	33	1.591.2100.14	1.591.2101.14
PG 21	7–12	11	28	33	1.591.2100.15	1.591.2101.15

HSK CABLE GLANDS

HSK-K-PVDF

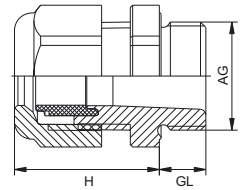
Metr.



Material	PVDF V0 according to UL 94
Seal	FKM
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG) with additional O-Ring
Operating Temperature	-35 °C – 150 °C
Colors	nature



- // With additional pre-assembled O-Ring upon request
- // Please find suitable O-Ring on page 90
- // Other sealing material e.g. Silicone upon request
- // Other colors on request



AG	∅ _k mm	GL mm	H mm	 mm	Number
M 12 x 1,5	3–6,5	8	21	15	1.299.1200.50
M 12 x 1,5	2–5	8	21	15	1.299.1200.51
M 16 x 1,5	4–8	8	22	19	1.299.1600.50
M 16 x 1,5	2–6	8	22	19	1.299.1600.51
M 20 x 1,5	6–12	9	27	24	1.299.2000.50
M 20 x 1,5	5–9	9	27	24	1.299.2000.51
M 25 x 1,5	13–18	11	31	33	1.299.2500.50
M 25 x 1,5	9–16	11	31	33	1.299.2500.51
M 32 x 1,5	18–25	11	39	42	1.299.3200.50
M 32 x 1,5	13–20	11	39	42	1.299.3200.51

HSK-K-PVDF

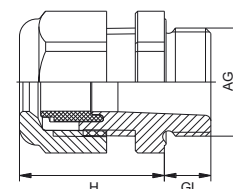
PG




Material	PVDF V0 according to UL 94
Seal	FKM
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG) with additional O-Ring
Operating Temperature	-35 °C – 150 °C
Colors	nature



- // With additional pre-assembled O-Ring upon request
- // Please find suitable O-Ring on page 90
- // Other sealing material e.g. Silicone upon request
- // Other colors on request



AG	∅ _k mm	GL mm	H mm	 mm	Number
PG 7	3–6,5	8	21	15	1.299.0700.14
PG 7	2–5	8	21	15	1.299.0700.15
PG 9	4–8	8	22	19	1.299.0900.14
PG 9	2–6	8	22	19	1.299.0900.15
PG 11	5–10	8	25	22	1.299.1100.14
PG 11	3–7	8	25	22	1.299.1100.15
PG 13,5	6–12	9	27	24	1.299.1300.14
PG 13,5	5–9	9	27	24	1.299.1300.15
PG 16	10–14	10	28	27	1.299.1600.14
PG 16	7–12	10	28	27	1.299.1600.15
PG 21	13–18	11	31	33	1.299.2100.14
PG 21	9–16	11	31	33	1.299.2100.15
PG 29	18–25	11	39	42	1.299.2900.14
PG 29	13–20	11	39	42	1.299.2900.15
PG 36	22–32	13	48	53	1.299.3600.14
PG 36	20–26	13	48	53	1.299.3600.15
PG 42	32–38	13	49	60	1.299.4200.14
PG 42	25–31	13	49	60	1.299.4200.15
PG 48	37–44	14	49	65	1.299.4800.14
PG 48	29–35	14	49	65	1.299.4800.15

HSK-M / HSK-M-PVDF

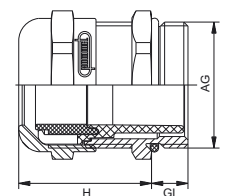
Metr.



Material	Nickel plated brass
Clamping insert	Polyamide / PVDF
Seal	Buna-N / FKM
O-Ring	Buna-N / FKM
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F) (PA) -35 °C – 150 °C (-31 °F – 302 °F) (PVDF)



// Other sealing material e.g. Silicone upon request
// Please see page 56 for size < M 12 and > M 63



AG	Øk mm	GL mm	H mm	Ø mm	Number	
					HSK-M -40 °C – 100 °C	HSK-M-PVDF -35 °C – 150 °C
M 12 x 1,5	3–6,5	6,5	19	14	1.609.1200.50	1.699.1200.50
M 12 x 1,5	2–5	6,5	19	14	1.609.1200.51	1.699.1200.51
M 16 x 1,5	4–8	6	21	17 / 19	1.609.1600.50	1.699.1600.50
M 16 x 1,5	2–6	6	21	17 / 19	1.609.1600.51	1.699.1600.51
M 16 x 1,5	5–10	6	22	20	1.609.1611.50	1.699.1611.50
M 20 x 1,5	6–12	6	23	22	1.609.2000.50	1.699.2000.50
M 20 x 1,5	5–9	6	23	22	1.609.2000.51	1.699.2000.51
M 20 x 1,5	10–14	6	24	24	1.609.2016.50	1.699.2016.50
M 25 x 1,5	13–18	7	26	30	1.609.2500.50	1.699.2500.50
M 25 x 1,5	9–16	7	26	30	1.609.2500.51	1.699.2500.51
M 32 x 1,5	18–25	8	31	40	1.609.3200.50	1.699.3200.50
M 32 x 1,5	13–20	8	31	40	1.609.3200.51	1.699.3200.51
M 32 x 1,5	15–21	8	33	36	1.609.3200.52	
M 40 x 1,5	22–32	8	37	50	1.609.4000.50	1.699.4000.50
M 40 x 1,5	20–26	8	37	50	1.609.4000.51	1.699.4000.51
M 40 x 1,5	19–27	8	33	46	1.609.4000.52	
M 50 x 1,5	32–38	9	37	57	1.609.5000.50	
M 50 x 1,5	25–31	9	37	57	1.609.5000.51	
M 63 x 1,5	37–44	10	38	64 / 68	1.609.6300.50	
M 63 x 1,5	29–35	10	38	64 / 68	1.609.6300.51	

HSK CABLE GLANDS

HSK-M / HSK-M-PVDF

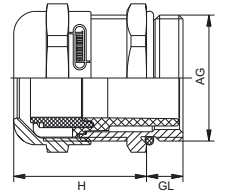
Metr.-elongated



Material	Nickel plated brass
Clamping insert	Polyamide / PVDF
Seal	Buna-N / FKM
O-Ring	Buna-N / FKM
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F) (PA) -35 °C – 150 °C (-31 °F – 302 °F) (PVDF)



// Other sealing material e.g. Silicone upon request
 // Please see page 56 for size < M 12 and > M 63



AG	∅ _k mm	GL mm	H mm	∅ _h mm	Number HSK-M -40 °C – 100 °C	Number HSK-M-PVDF -35 °C – 150 °C
M 12 x 1,5	3–6,5	10	19	14	1.609.1200.30	1.699.1200.30
M 12 x 1,5	2–5	10	19	14	1.609.1200.31	1.699.1200.31
M 16 x 1,5	4–8	10	21	17 / 19	1.609.1600.30	1.699.1600.30
M 16 x 1,5	2–6	10	21	17 / 19	1.609.1600.31	1.699.1600.31
M 16 x 1,5	5–10	10	22	20	1.609.1611.30	1.699.1611.30
M 20 x 1,5	6–12	10	23	22	1.609.2000.30	1.699.2000.30
M 20 x 1,5	5–9	10	23	22	1.609.2000.31	1.699.2000.31
M 20 x 1,5	10–14	10	24	24	1.609.2016.30	1.699.2016.30
M 25 x 1,5	13–18	12	26	30	1.609.2500.30	1.699.2500.30
M 25 x 1,5	9–16	12	26	30	1.609.2500.31	1.699.2500.31
M 32 x 1,5	18–25	12	31	40	1.609.3200.30	1.699.3200.30
M 32 x 1,5	13–20	12	31	40	1.609.3200.31	1.699.3200.31
M 32 x 1,5	15–21	12	37	36	1.609.3200.32	
M 40 x 1,5	22–32	15	37	50	1.609.4000.30	1.699.4000.30
M 40 x 1,5	20–26	15	37	50	1.609.4000.31	1.699.4000.31
M 40 x 1,5	19–27	15	37	46	1.609.4000.32	
M 50 x 1,5	32–38	15	37	57	1.609.5000.30	
M 50 x 1,5	25–31	15	37	57	1.609.5000.31	
M 63 x 1,5	37–44	15	38	64 / 68	1.609.6300.30	
M 63 x 1,5	29–35	15	38	64 / 68	1.609.6300.31	

HSK-M / HSK-M-PVDF

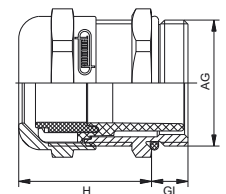
PG



Material	Nickel plated brass
Clamping insert	Polyamide / PVDF
Seal	Buna-N / FKM
O-Ring	Buna-N / FKM
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F) (PA) -35 °C – 150 °C (-31 °F – 302 °F) (PVDF)



// Other sealing material e.g. Silicone upon request



AG	Ø _k mm	GL mm	H mm	Ø _h mm	Number	
					HSK-M -40 °C – 100 °C	HSK-M-PVDF -35 °C – 150 °C
PG 7	3–6,5	5	19	14	1.609.0700.01	1.699.0700.01
PG 7	2–5	5	19	14	1.609.0700.15	1.699.0700.15
PG 9	4–8	6	21	17	1.609.0900.01	1.699.0900.01
PG 9	2–6	6	21	17	1.609.0900.15	1.699.0900.15
PG 11	5–10	6	22	20	1.609.1100.01	1.699.1100.01
PG 11	3–7	6	22	20	1.609.1100.15	1.699.1100.15
PG 13,5	6–12	6,5	24	22	1.609.1300.01	1.699.1300.01
PG 13,5	5–9	6,5	24	22	1.609.1300.15	1.699.1300.15
PG 16	10–14	6,5	23	24	1.609.1600.01	1.699.1600.01
PG 16	7–12	6,5	23	24	1.609.1600.15	1.699.1600.15
PG 21	13–18	7	24	30	1.609.2100.01	1.699.2100.01
PG 21	9–16	7	24	30	1.609.2100.15	1.699.2100.15
PG 29	18–25	8	29	40	1.609.2900.01	1.699.2900.01
PG 29	13–20	8	29	40	1.609.2900.15	1.699.2900.15
PG 36	22–32	8	35	50	1.609.3600.01	1.699.3600.01
PG 36	20–26	8	35	50	1.609.3600.15	1.699.3600.15
PG 42	32–38	9	37	57	1.609.4200.01	1.699.4200.01
PG 42	25–31	9	37	57	1.609.4200.15	1.699.4200.15
PG 48	37–44	10	38	64	1.609.4800.01	1.699.4800.01
PG 48	29–35	10	38	64	1.609.4800.15	1.699.4800.15

HSK CABLE GLANDS

HSK-M / HSK-M-PVDF

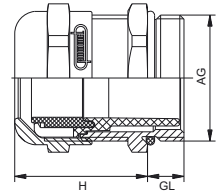
PG-elongated



Material	Nickel plated brass
Clamping insert	Polyamide / PVDF
Seal	Buna-N / FKM
O-Ring	Buna-N / FKM
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	--40 °C – 100 °C (-40 °F – 212 °F) (PA) -35 °C – 150 °C (-31 °F – 302 °F) (PVDF)



// Other sealing material e.g. Silicone upon request



AG	∅ _k mm	GL mm	H mm	 mm	Number HSK-M -40 °C – 100 °C	Number HSK-M-PVDF -35 °C – 150 °C
PG 7	3–6,5	10	19	14	1.609.0700.60	1.699.0700.60
PG 7	2–5	10	19	14	1.609.0700.61	1.699.0700.61
PG 9	4–8	10	21	17	1.609.0900.60	1.699.0900.60
PG 9	2–6	10	21	17	1.609.0900.61	1.699.0900.61
PG 11	5–10	10	22	20	1.609.1100.60	1.699.1100.60
PG 11	3–7	10	22	20	1.609.1100.61	1.699.1100.61
PG 13,5	6–12	10	24	22	1.609.1300.60	1.699.1300.60
PG 13,5	5–9	10	24	22	1.609.1300.61	1.699.1300.61
PG 16	10–14	10	23	24	1.609.1600.60	1.699.1600.60
PG 16	7–12	10	23	24	1.609.1600.61	1.699.1600.61
PG 21	13–18	12	24	30	1.609.2100.60	1.699.2100.60
PG 21	9–16	12	24	30	1.609.2100.61	1.699.2100.61
PG 29	18–25	12	29	40	1.609.2900.60	1.699.2900.60
PG 29	13–20	12	29	40	1.609.2900.61	1.699.2900.61
PG 36	22–32	15	35	50	1.609.3600.60	1.699.3600.60
PG 36	20–26	15	35	50	1.609.3600.61	1.699.3600.61
PG 42	32–38	15	37	57	1.609.4200.60	1.699.4200.60
PG 42	25–31	15	37	57	1.609.4200.61	1.699.4200.61
PG 48	37–44	15	38	64	1.609.4800.60	1.699.4800.60
PG 48	29–35	15	38	64	1.609.4800.61	1.699.4800.61

HSK-M / HSK-M-PVDF

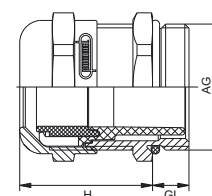
NPT



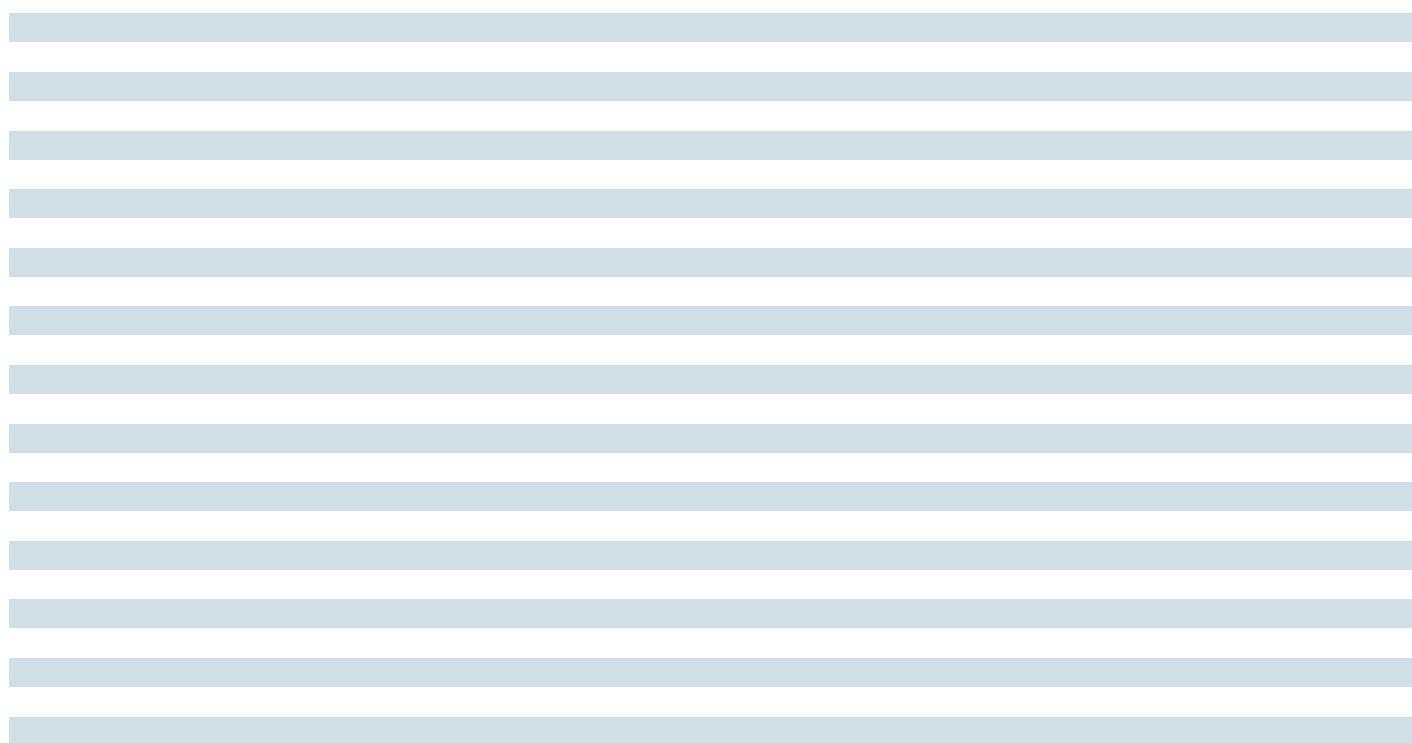
Material	Nickel plated brass
Clamping insert	Polyamide / PVDF
Seal	Buna-N / FKM
O-Ring	Buna-N / FKM
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F) (PA) -35 °C – 150 °C (-31 °F – 302 °F) (PVDF)



// Other sealing material e.g. Silicone upon request



AG	Ø mm	GL mm	H mm	Ø mm	Number HSK-M -40 °C – 100 °C	Number HSK-M-PVDF -35 °C – 150 °C
NPT 3/8"	4–8	15	21	17 / 19	1.609.3800.70	1.699.3800.70
NPT 3/8"	2–6	15	21	17 / 19	1.609.3800.71	1.699.3800.71
NPT 1/2"	6–12	13	24	22 / 24	1.609.1200.70	1.699.1200.70
NPT 1/2"	5–9	13	24	22 / 24	1.609.1200.71	1.699.1200.71
NPT 3/4"	13–18	13	25	30	1.609.3400.70	1.699.3400.70
NPT 3/4"	9–16	13	25	30	1.609.3400.71	1.699.3400.71
NPT 1"	18–25	19	29	40	1.609.1000.70	
NPT 1"	13–20	19	29	40	1.609.1000.71	



HSK CABLE GLANDS

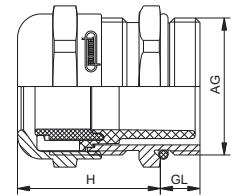
HSK-INOX / HSK-INOX-PVDF Metr.



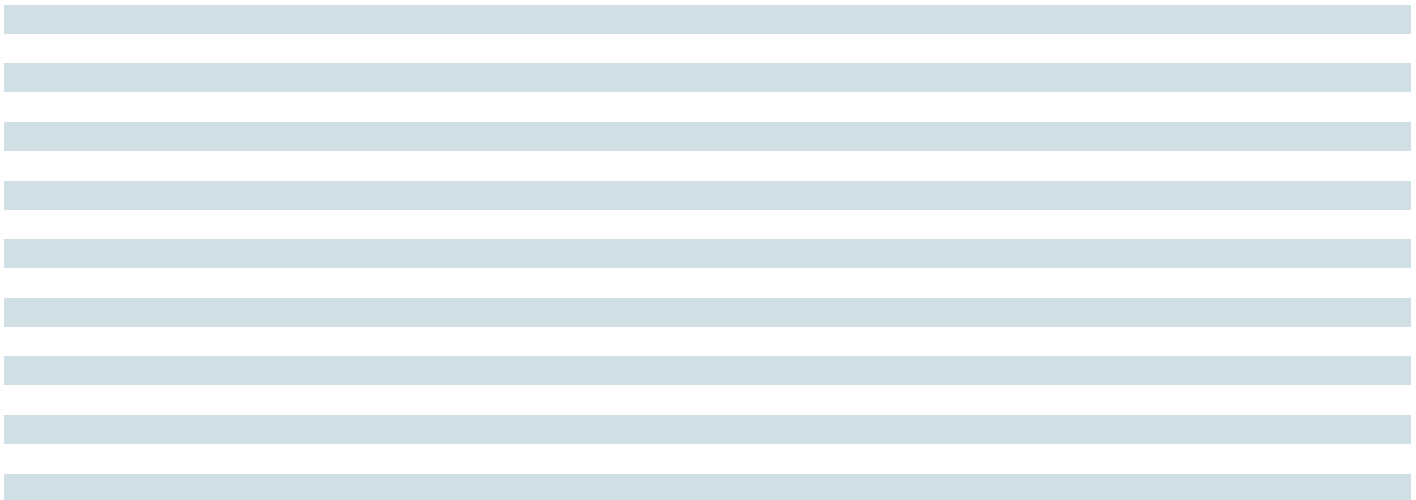
Material	INOX 1.4305 / 1.4404
Clamping insert	Polyamide / PVDF
Seal	Buna-N / FKM
O-Ring	Buna-N / FKM
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F) (PA) -35 °C – 150 °C (-31 °F – 302 °F) (PVDF)



// Other sealing material e.g. Silicone upon request



AG	Øk mm	GL mm	H mm	Ø mm	Number		Number	
					HSK-INOX 1.4305	HSK-INOX-PVDF 1.4305	HSK-INOX 1.4404	HSK-INOX-PVDF 1.4404
					-40 °C – 100 °C	-35 °C – 150 °C	-40 °C – 100 °C	-35 °C – 150 °C
M 12 x 1,5	3–6,5	6,5	19	14	1.695.1200.50	1.696.1200.50	1.675.1200.50	1.676.1200.50
M 12 x 1,5	2–5	6,5	19	14	1.695.1200.51	1.696.1200.51	1.675.1200.51	1.676.1200.51
M 16 x 1,5	5–10	6	22	22	1.695.1600.50	1.696.1600.50	1.675.1600.50	1.676.1600.50
M 16 x 1,5	3–7	6	22	22	1.695.1600.51	1.696.1600.51	1.675.1600.51	1.676.1600.51
M 20 x 1,5	10–14	6	23	24	1.695.2000.50	1.696.2000.50	1.675.2000.50	1.676.2000.50
M 20 x 1,5	7–12	6	23	24	1.695.2000.51	1.696.2000.51	1.675.2000.51	1.676.2000.51
M 25 x 1,5	13–18	7	24	30	1.695.2500.50	1.696.2500.50	1.675.2500.50	1.676.2500.50
M 25 x 1,5	9–16	7	24	30	1.695.2500.51	1.696.2500.51	1.675.2500.51	1.676.2500.51
M 32 x 1,5	18–25	8	31	41	1.695.3200.50	1.696.3200.50	1.675.3200.50	1.676.3200.50
M 32 x 1,5	13–20	8	31	41	1.695.3200.51	1.696.3200.51	1.675.3200.51	1.676.3200.51
M 40 x 1,5	22–32	8	37	50	1.695.4000.50	1.696.4000.50	1.675.4000.50	1.676.4000.50
M 40 x 1,5	20–26	8	37	50	1.695.4000.51	1.696.4000.51	1.675.4000.51	1.676.4000.51
M 50 x 1,5	32–38	9	37	60	1.695.5000.50		1.675.5000.50	
M 50 x 1,5	25–31	9	37	60	1.695.5000.51		1.675.5000.51	
M 63 x 1,5	37–44	10	38	64/68	1.695.6300.50		1.675.6300.50	
M 63 x 1,5	29–35	10	38	64/68	1.695.6300.51		1.675.6300.51	



HSK-INOX / HSK-INOX-PVDF

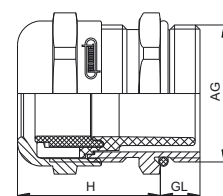
PG



Material	INOX 1.4305 / 1.4404
Clamping insert	Polyamide / PVDF
Seal	Buna-N / FKM
O-Ring	Buna-N / FKM
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F) (PA) -35 °C – 150 °C (-31 °F – 302 °F) (PVDF)



// Other sealing material e.g. Silicone upon request



AG	Ø mm	GL mm	H mm	Ø mm	Number		Number	
					HSK-INOX 1.4305	HSK-INOX-PVDF 1.4305	HSK-INOX 1.4404	HSK-INOX-PVDF 1.4404
					-40 °C – 100 °C	-35 °C – 150 °C	-40 °C – 100 °C	-35 °C – 150 °C
PG 7	3–6,5	5	19	14	1.695.0700.01	1.696.0700.01	1.675.0700.01	1.676.0700.01
PG 7	2–5	5	19	14	1.695.0700.15	1.696.0700.15	1.675.0700.15	1.676.0700.15
PG 9	4–8	6	21	17	1.695.0900.01	1.696.0900.01	1.675.0900.01	1.676.0900.01
PG 9	2–6	6	21	17	1.695.0900.15	1.696.0900.15	1.675.0900.15	1.676.0900.15
PG 11	5–10	6	22	22	1.695.1100.01	1.696.1100.01	1.675.1100.01	1.676.1100.01
PG 11	3–7	6	22	22	1.695.1100.15	1.696.1100.15	1.675.1100.15	1.676.1100.15
PG 13,5	6–12	6,5	24	22	1.695.1300.01	1.696.1300.01	1.675.1300.01	1.676.1300.01
PG 13,5	5–9	6,5	24	22	1.695.1300.15	1.696.1300.15	1.675.1300.15	1.676.1300.15
PG 16	10–14	6,5	23	24	1.695.1600.01	1.696.1600.01	1.675.1600.01	1.676.1600.01
PG 16	7–12	6,5	23	24	1.695.1600.15	1.696.1600.15	1.675.1600.15	1.676.1600.15
PG 21	13–18	7	24	30	1.695.2100.01	1.696.2100.01	1.675.2100.01	1.676.2100.01
PG 21	9–16	7	24	30	1.695.2100.15	1.696.2100.15	1.675.2100.15	1.676.2100.15
PG 29	18–25	8	29	41	1.695.2900.01	1.696.2900.01	1.675.2900.01	1.676.2900.01
PG 29	13–20	8	29	41	1.695.2900.15	1.696.2900.15	1.675.2900.15	1.676.2900.15
PG 36	22–32	8	35	50	1.695.3600.01	1.696.3600.01	1.675.3600.01	1.676.3600.01
PG 36	20–26	8	35	50	1.695.3600.15	1.696.3600.15	1.675.3600.15	1.676.3600.15
PG 42	32–38	9	37	57	1.695.4200.01	1.696.4200.01	1.675.4200.01	1.676.4200.01
PG 42	25–31	9	37	57	1.695.4200.15	1.696.4200.15	1.675.4200.15	1.676.4200.15
PG 48	37–44	10	38	64	1.695.4800.01	1.696.4800.01	1.675.4800.01	1.676.4800.01
PG 48	29–35	10	38	64	1.695.4800.15	1.696.4800.15	1.675.4800.15	1.676.4800.15

HSK CABLE GLANDS

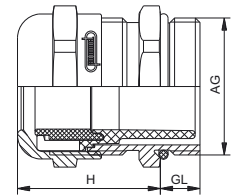
HSK-INOX / HSK-INOX-PVDF NPT



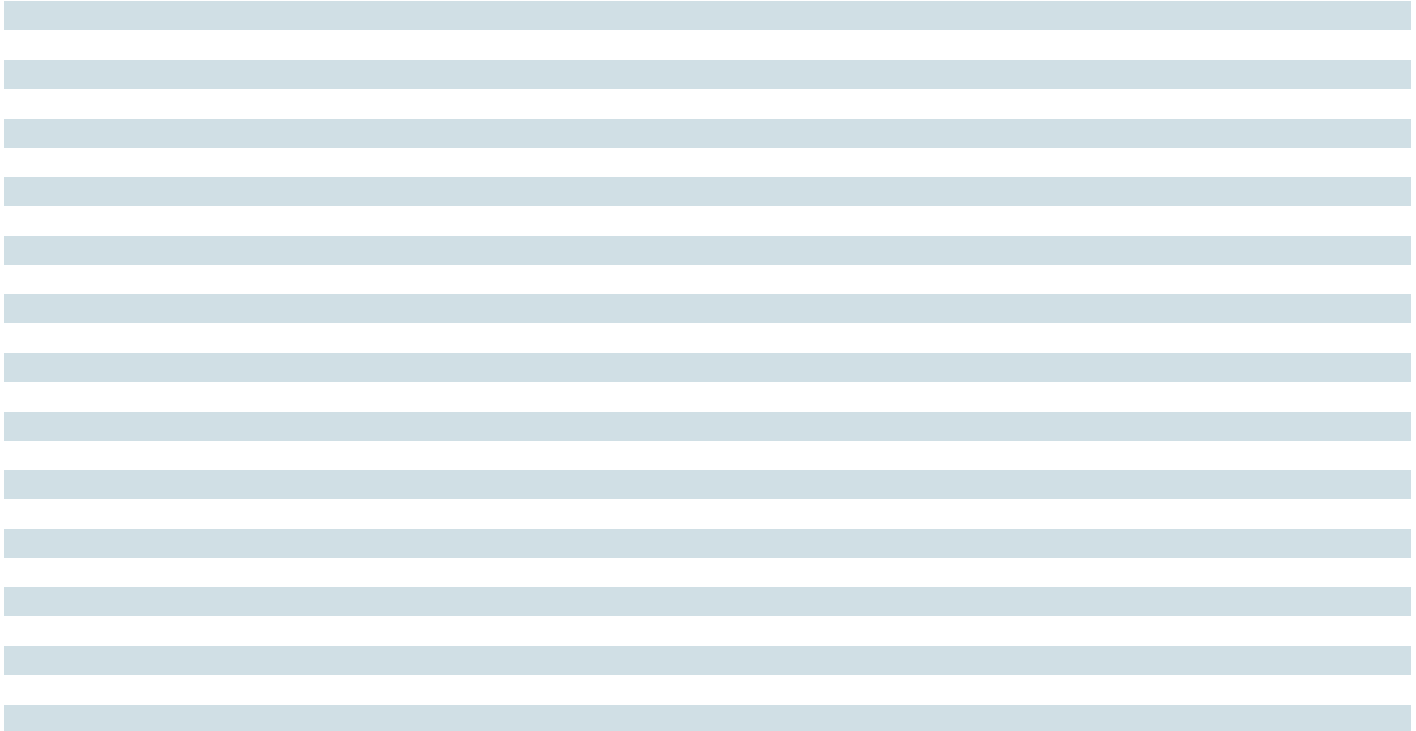
Material	INOX 1.4305 / 1.4404
Clamping insert	Polyamide / PVDF
Seal	Buna-N / FKM
O-Ring	Buna-N / FKM
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F) (PA) -35 °C – 150 °C (-31 °F – 302 °F) (PVDF)



- // PVDF type upon request
- // Other sealing material e.g. Silicone upon request



AG	Ø mm	GL mm	H mm	 mm	Number HSK-INOX 1.4305	Number HSK-INOX 1.4404
NPT 3/8"	4–8	15	21	17 / 19	1.695.3800.70	1.675.3800.70
NPT 3/8"	2–6	15	21	17 / 19	1.695.3800.71	1.675.3800.71
NPT 1/2"	6–12	13	24	22 / 24	1.695.1200.70	1.675.1200.70
NPT 1/2"	5–9	13	24	22 / 24	1.695.1200.71	1.675.1200.71
NPT 3/4"	13–18	13	25	30	1.695.3400.70	1.675.3400.70
NPT 3/4"	9–16	13	25	30	1.695.3400.71	1.675.3400.71
NPT 1"	18–25	19	29	41	1.695.1000.70	1.675.1000.70
NPT 1"	13–20	19	29	41	1.695.1000.71	1.675.1000.71



INDUSTRIAL CABLE GLANDS

HSK-EMC cable glands

Cable glands of the HSK-series fulfil the highest demands of quality and security. Outstanding high-grade materials are used together with innovative technology to offer premium products.

You can find in this chapter:

HSK cable gland series with 360° EMC connection

- // HSK-M-EMC-D EMC version with best EMI attenuation for fast and easy installation
- // HSK-M-EMC standard EMC version with very good screen attenuation
- // HSK-M-PVDF-EMC high temperature EMC version with very good screen attenuation
- // HSK-M-EMC-MZ/Flex standard EMC version with additional bending protection or additional strain relief
- // HSK-INOX-EMC standard EMC version with very good screen attenuation, made of stainless steel

We provide variable clamping ranges, thread lengths, thread types plus different sealing materials and temperature ranges. Our range is completed by global certifications.

If there are still open requests from your side, please contact us. We are looking forward to developing solutions together. You profit from our vast knowledge in development, engineering and production technology.



HSK-EMC CABLE GLANDS

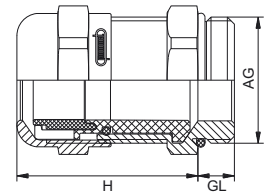
HSK-M-EMC-D

Metr., Metr.-elongated

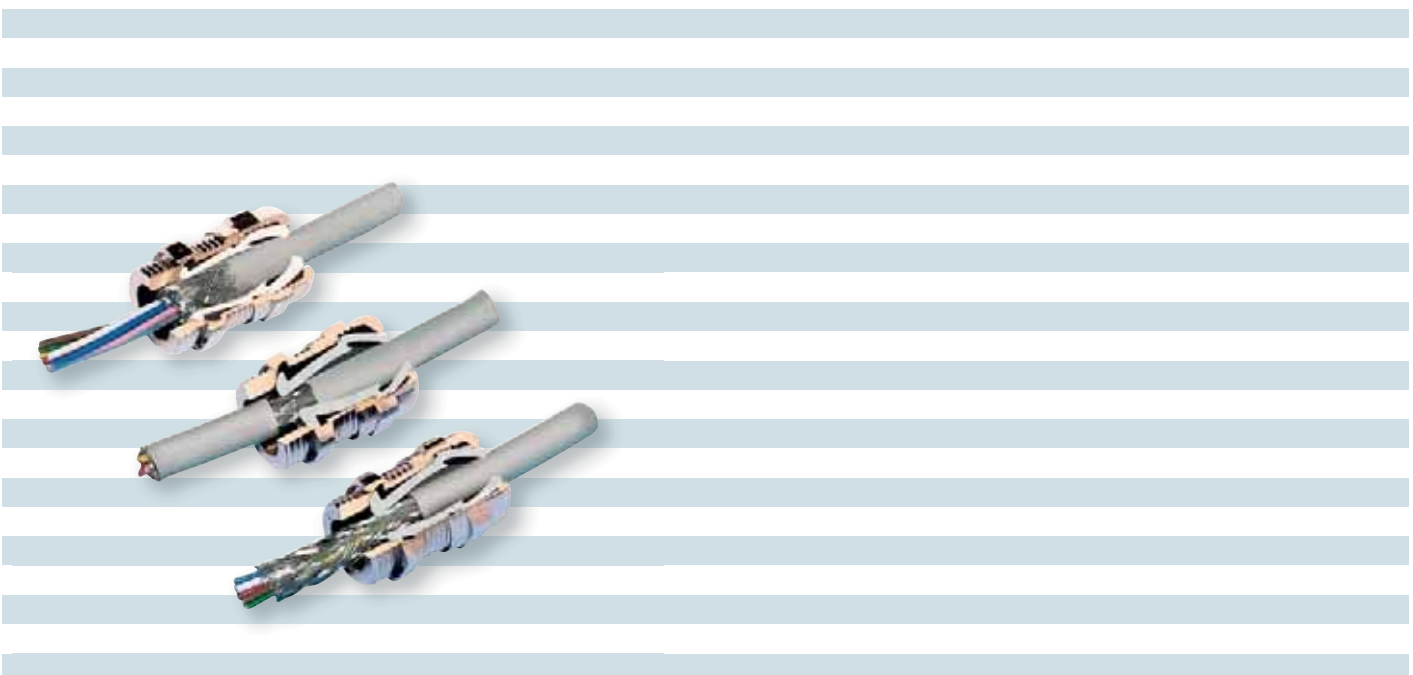


Material	Nickel plated brass
Clamping insert	Metalised polyamide
Seal	Buna-N
O-Ring	Buna-N
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)

// Other sealing material e.g. Silicone upon request



AG	∅ mm	H mm	⌀ mm	GL mm	Number	GL mm	Number elongated
M 12 x 1,5	3–6,5	25	14	6,5	1.631.1200.50	10	1.631.1200.30
M 16 x 1,5	4–8	29	17/19	6	1.631.1609.50	10	1.631.1609.30
M 16 x 1,5	5–10	32	20	6	1.631.1600.50	10	1.631.1600.30
M 20 x 1,5	6–12	32,5	22	6	1.631.2013.50	10	1.631.2013.30
M 20 x 1,5	10–14	33	24	6	1.631.2000.50	10	1.631.2000.30
M 25 x 1,5	13–18	39	30	7	1.631.2500.50	12	1.631.2500.30
M 32 x 1,5	18–25	45	40	8	1.631.3200.50	12	1.631.3200.30
M 40 x 1,5	24–32	51	50	8	1.631.4000.50	15	1.631.4000.30
M 50 x 1,5	32–38	57,5	57	9	1.631.5000.50	15	1.631.5000.30
M 63 x 1,5	37–44	52	64/68	10	1.631.6300.50	15	1.631.6300.30



HSK-M-EMC-D

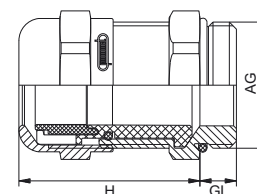
PG, NPT



Material	Nickel plated brass
Clamping insert	Metalised polyamide
Seal	Buna-N
O-Ring	Buna-N
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)



// Other sealing material e.g. Silicone upon request



AG	∅ _k mm	GL mm	H mm	⌀ mm	Number
PG 7	3–6,5	5	24	14	1.631.0700.01
PG 9	4–8	6	28	17	1.631.0900.01
PG 11	5–10	6	29	20	1.631.1100.01
PG 13,5	6–12	6,5	31	22	1.631.1300.01
PG 16	10–14	6,5	32	24	1.631.1600.01
PG 21	13–18	7	38	30	1.631.2100.01
PG 29	18–25	8	43	40	1.631.2900.01
PG 36	24–32	8	48	50	1.631.3600.01
PG 42	32–38	9	45	57	1.631.4200.01
PG 48	37–44	10	46	64	1.631.4800.01
NPT 3/8"	4–8	15	29	17/19	1.631.3800.70
NPT 1/2"	6–12	13	32,5	22/24	1.631.1200.70
NPT 3/4"	13–18	13	39	30	1.631.3400.70

HSK-EMC CABLE GLANDS

HSK-M-EMC / HSK-M-PVDF-EMC

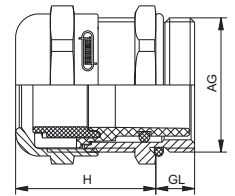
Metr., Metr.-elongated



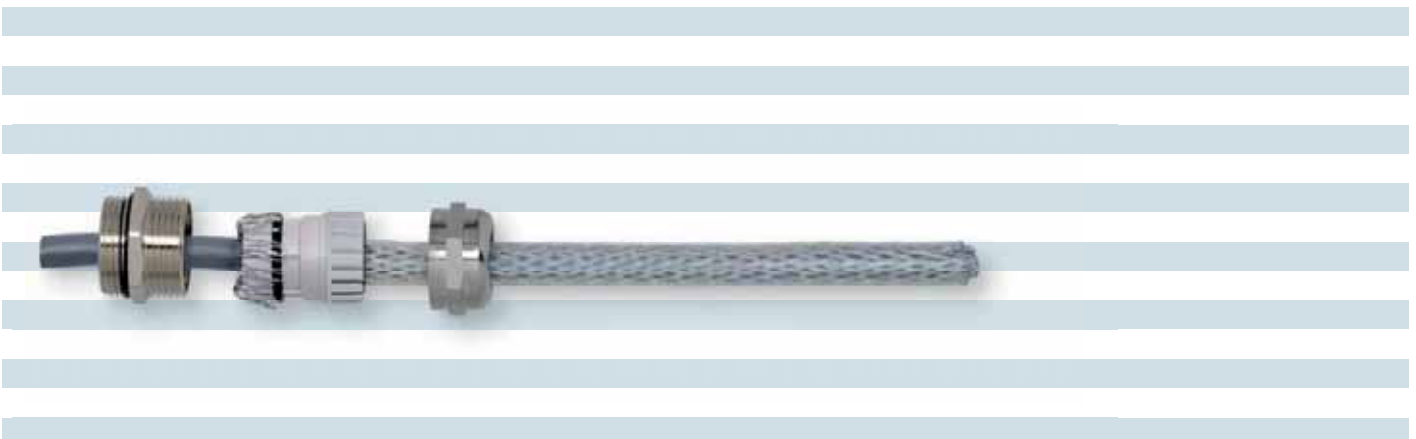
Material	Nickel plated brass
Clamping insert	Polyamide / PVDF
Seal	Buna-N / FKM
O-Ring	Buna-N / FKM
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F) (PA) -35 °C – 150 °C (-31 °F – 302 °F) (PVDF)



// Other sealing material e.g. Silicone upon request
// Please see page 56 for HSK-Mini EMC M 8 and M10



AG	∅k mm	H mm	mm	GL mm	Number HSK-M-EMC -40 °C – 100 °C	Number HSK-M-PVDF-EMC -35 °C – 150 °C	GL mm	Number HSK-M-EMC elongated -40 °C – 100 °C
M 12 x 1,5	3–6,5	19	14	6,5	1.691.1200.50	1.698.1200.50	10	1.691.1200.30
M 12 x 1,5	2–5	19	14	6,5	1.691.1200.51	1.698.1200.51	10	1.691.1200.31
M 16 x 1,5	5–10	22	20	6	1.691.1600.50	1.698.1611.50	10	1.691.1600.30
M 16 x 1,5	3–7	22	20	6	1.691.1600.51	1.698.1611.51	10	1.691.1600.31
M 20 x 1,5	10–14	24	24	6	1.691.2000.50	1.698.2000.50	10	1.691.2000.30
M 20 x 1,5	7–12	24	24	6	1.691.2000.51	1.698.2000.51	10	1.691.2000.31
M 25 x 1,5	13–18	26	30	7	1.691.2500.50	1.698.2500.50	12	1.691.2500.30
M 25 x 1,5	9–16	26	30	7	1.691.2500.51	1.698.2500.51	12	1.691.2500.31
M 32 x 1,5	18–25	31	40	8	1.691.3200.50		12	1.691.3200.30
M 32 x 1,5	13–20	31	40	8	1.691.3200.51		12	1.691.3200.31
M 32 x 1,5	15–21	33	36	8	1.691.3200.52		12	1.691.3200.32
M 40 x 1,5	22–32	37	50	8	1.691.4000.50		15	1.691.4000.30
M 40 x 1,5	20–26	37	50	8	1.691.4000.51		15	1.691.4000.31
M 40 x 1,5	19–27	33	46	8	1.691.4000.52		15	1.691.4000.32
M 50 x 1,5	32–38	37	57	9	1.691.5000.50		15	1.691.5000.30
M 50 x 1,5	25–31	37	57	9	1.691.5000.51		15	1.691.5000.31
M 63 x 1,5	37–44	38	64/68	10	1.691.6300.50		15	1.691.6300.30
M 63 x 1,5	29–35	38	64/68	10	1.691.6300.51		15	1.691.6300.31



HSK-M-EMC / HSK-M-PVDF-EMC

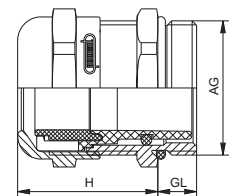
PG, PG-elongated, NPT



Material	Nickel plated brass
Clamping insert	Polyamide / PVDF
Seal	Buna-N / FKM
O-Ring	Buna-N / FKM
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F) (PA) -35 °C – 150 °C (-31 °F – 302 °F) (PVDF)



// Other sealing material e.g. Silicone upon request



AG	\varnothing mm	H mm	\varnothing mm	GL mm	Number HSK-M-EMC -40 °C – 100 °C	Number HSK-M-PVDF-EMC -35 °C – 150 °C	GL mm	Number HSK-M-EMC elongated -40 °C – 100 °C
PG 7	3–6,5	19	14	5	1.691.0700.01	1.698.0700.01	10	1.691.0700.60
PG 7	2–5	19	14	5	1.691.0700.15	1.698.0700.15	10	1.691.0700.61
PG 9	4–8	21	17	6	1.691.0900.01	1.698.0900.01	10	1.691.0900.60
PG 9	2–6	21	17	6	1.691.0900.15	1.698.0900.15	10	1.691.0900.61
PG 11	5–10	22	20	6	1.691.1100.01	1.698.1100.01	10	1.691.1100.60
PG 11	3–7	22	20	6	1.691.1100.15	1.698.1100.15	10	1.691.1100.61
PG 13,5	6–12	24	22	6,5	1.691.1300.01	1.698.1300.01	10	1.691.1300.60
PG 13,5	5–9	24	22	6,5	1.691.1300.15	1.698.1300.15	10	1.691.1300.61
PG 16	10–14	23	24	6,5	1.691.1600.01	1.698.1600.01	10	1.691.1600.60
PG 16	7–12	23	24	6,5	1.691.1600.15	1.698.1600.15	10	1.691.1600.61
PG 21	13–18	24	30	7	1.691.2100.01	1.698.2100.01	12	1.691.2100.60
PG 21	9–16	24	30	7	1.691.2100.15	1.698.2100.15	12	1.691.2100.61
PG 29	18–25	29	40	8	1.691.2900.01	1.698.2900.01	12	1.691.2900.60
PG 29	13–20	29	40	8	1.691.2900.15	1.698.2900.15	12	1.691.2900.61
PG 36	22–32	35	50	8	1.691.3600.01	1.698.3600.01	15	1.691.3600.60
PG 36	20–26	35	50	8	1.691.3600.15	1.698.3600.15	15	1.691.3600.61
PG 42	32–38	37	57	9	1.691.4200.01		15	1.691.4200.60
PG 42	25–31	37	57	9	1.691.4200.15		15	1.691.4200.61
PG 48	37–44	38	64	10	1.691.4800.01		15	1.691.4800.60
PG 48	29–35	38	64	10	1.691.4800.15		15	1.691.4800.61
NPT 3/8"	4–8	21	17/19	15	1.691.3800.70			
NPT 3/8"	2–6	21	17/19	15	1.691.3800.71			
NPT 1/2"	6–12	24	22/24	13	1.691.1200.70			
NPT 1/2"	5–9	24	22/24	13	1.691.1200.71			
NPT 3/4"	13–18	25	30	13	1.691.3400.70			
NPT 3/4"	9–16	25	30	13	1.691.3400.71			

HSK-EMC CABLE GLANDS

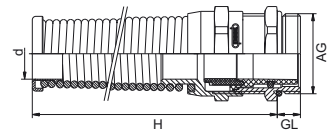
HSK-M-Flex-EMC Metr., Metr.-elongated



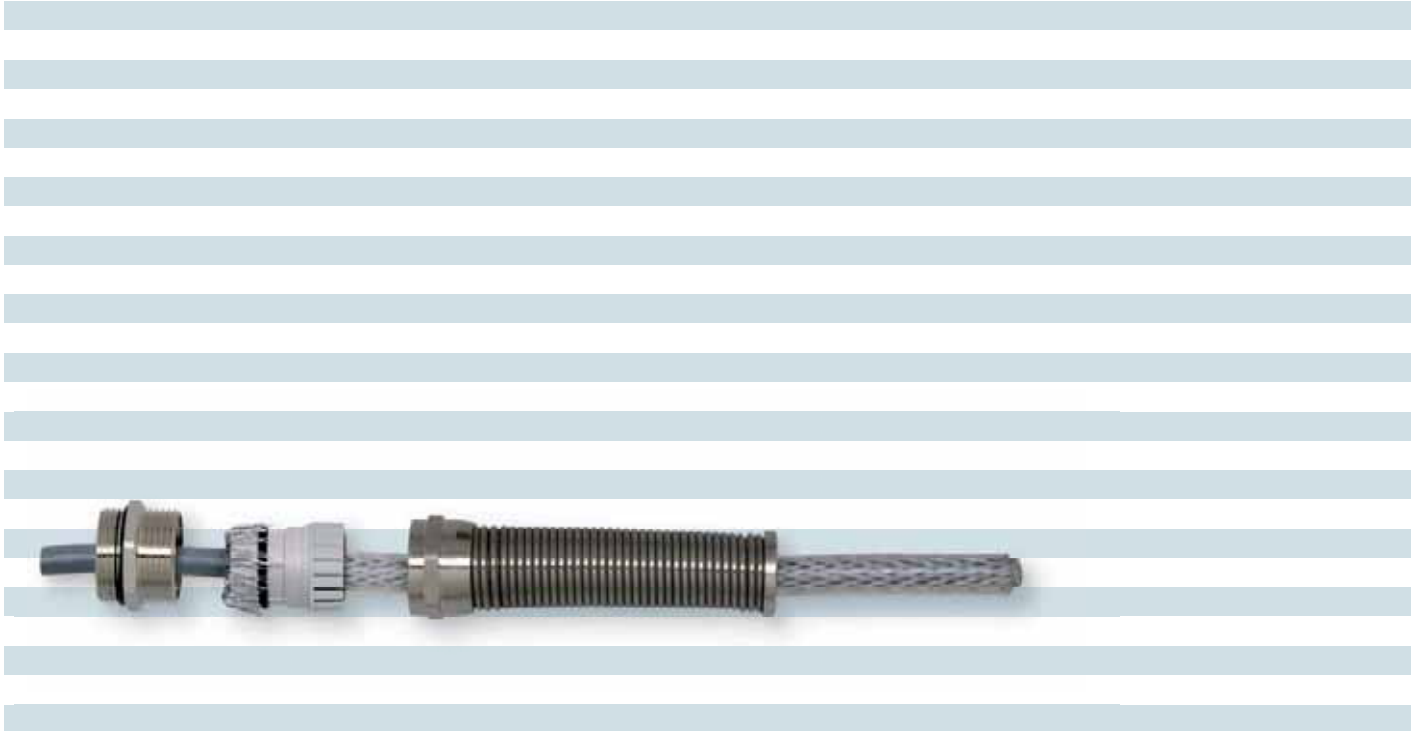
Material	Nickel plated brass
Steel spring	INOX 1.4310
Clamping insert	Polyamide
Seal	Buna-N
O-Ring	Buna-N
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)



// Other sealing material e.g. Silicone upon request



AG	∅ mm	H mm	d mm	mm	GL mm	Number	GL mm	Number elongated
M 12 x 1,5	3–6,5	55	6,8	14	6,5	1.624.1200.50	10	1.624.1200.30
M 12 x 1,5	2–5	55	6,8	14	6,5	1.624.1200.51	10	1.624.1200.31
M 16 x 1,5	5–10	77	10,3	20	6	1.624.1600.50	10	1.624.1600.30
M 16 x 1,5	3–7	77	10,3	20	6	1.624.1600.51	10	1.624.1600.31
M 20 x 1,5	10–14	98	14,3	24	6	1.624.2000.50	10	1.624.2000.30
M 20 x 1,5	7–12	98	14,3	24	6	1.624.2000.51	10	1.624.2000.31
M 25 x 1,5	13–18	111	18,4	30	7	1.624.2500.50	12	1.624.2500.30
M 25 x 1,5	9–16	111	18,4	30	7	1.624.2500.51	12	1.624.2500.31



HSK-M-Flex-EMC

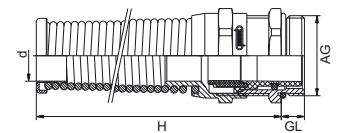
PG, PG-elongated, NPT



Material	Nickel plated brass
Steel spring	INOX 1.4310
Clamping insert	Polyamide
Seal	Buna-N
O-Ring	Buna-N
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)



// Other sealing material e.g. Silicone upon request
 // Also available in PVDF



AG	∅k mm	H mm	d mm	R mm	GL mm	Number	GL mm	Number elongated
PG 7	3–6,5	55	6,8	14	5	1.624.0700.01	10	1.624.0700.60
PG 7	2–5	55	6,8	14	5	1.624.0700.15	10	1.624.0700.61
PG 9	4–8	66	8,2	17	6	1.624.0900.01	10	1.624.0900.60
PG 9	2–6	66	8,2	17	6	1.624.0900.15	10	1.624.0900.61
PG 11	5–10	77	10,3	20	6	1.624.1100.01	10	1.624.1100.60
PG 11	3–7	77	10,3	20	6	1.624.1100.15	10	1.624.1100.61
PG 13,5	6–12	88	12,3	22	6,5	1.624.1300.01	10	1.624.1300.60
PG 13,5	5–9	88	12,3	22	6,5	1.624.1300.15	10	1.624.1300.61
PG 16	10–14	98	14,3	24	6,5	1.624.1600.01	10	1.624.1600.60
PG 16	7–12	98	14,3	24	6,5	1.624.1600.15	10	1.624.1600.61
PG 21	13–18	111	18,4	30	7	1.624.2100.01	12	1.624.2100.60
PG 21	9–16	111	18,4	30	7	1.624.2100.15	12	1.624.2100.61
NPT 3/8"	4–8	66	8,2	17/19	15	1.624.3800.70		
NPT 3/8" NPT	2–6	66	8,2	17/19	15	1.624.3800.71		
NPT 1/2" NPT	6–12	88	12,3	22/24	13	1.624.1200.70		
NPT 1/2" NPT	5–9	88	12,3	22/24	13	1.624.1200.71		
NPT 3/4" NPT	13–18	111	18,4	30	13	1.624.3400.70		
NPT 3/4" NPT	9–16	111	18,4	30	13	1.624.3400.71		

HSK-EMC CABLE GLANDS

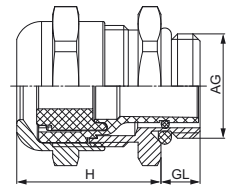
HSK-INOX-EMC Metr.



Material	1.4305
Clamping insert	Polyamide
Seal	Buna-N
O-Ring	Buna-N
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)



// Stainless steel 1.4404 on request



AG	∅ _k mm	H mm	 mm	GL mm	Number
M 12 x 1,5	3–6,5	19	14	6,5	1.693.1200.50
M 12 x 1,5	2–5	19	14	6,5	1.693.1200.51
M 16 x 1,5	5–10	21	20	6	1.693.1600.50
M 16 x 1,5	3–7	21	20	6	1.693.1600.51
M 20 x 1,5	10–14	23	24	6	1.693.2000.50
M 20 x 1,5	7–12	23	24	6	1.693.2000.51
M 25 x 1,5	13–18	26	30	7	1.693.2500.50
M 25 x 1,5	9–16	26	30	7	1.693.2500.51
M 32 x 1,5	18–25	31	40	8	1.693.3200.50
M 32 x 1,5	13–20	31	40	8	1.693.3200.51
M 40 x 1,5	22–32	37	50	8	1.693.4000.50
M 40 x 1,5	20–26	37	50	8	1.693.4000.51

HSK-INOX-EMC

PG

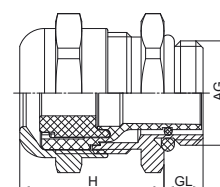


Material	1.4305
Clamping insert	Polyamide
Seal	Buna-N
O-Ring	Buna-N
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)



RoHS

// Stainless steel 1.4404 on request



AG	\varnothing mm	H mm	\varnothing mm	GL mm	Number
PG 7	3–6,5	19	14	5	1.693.0700.01
PG 7	2–5	19	14	5	1.693.0700.15
PG 9	4–8	21	17	6	1.693.0900.01
PG 9	2–6	21	17	6	1.693.0900.15
PG 11	5–10	22	22	6	1.693.1100.01
PG 11	3–7	22	22	6	1.693.1100.15
PG 13,5	6–12	24	22	6,5	1.693.1300.01
PG 13,5	5–9	24	22	6,5	1.693.1300.15
PG 16	10–14	23	24	6,5	1.693.1600.01
PG 16	7–12	23	24	6,5	1.693.1600.15
PG 21	13–18	24	30	7	1.693.2100.01
PG 21	9–16	24	30	7	1.693.2100.15
PG 29	18–25	29	41	8	1.693.2900.01
PG 29	13–20	29	41	8	1.693.2900.15
PG 36	22–32	35	50	8	1.693.3600.01
PG 36	20–26	35	50	8	1.693.3600.15

HSK-EMC CABLE GLANDS

HSK-MZ-EMC

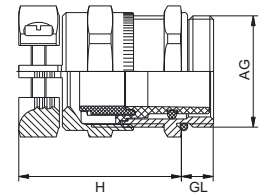
Metr., Metr.-elongated, PG, PG-elongated, NPT



Material	Nickel plated brass
Clamping insert	Polyamide
Seal	Buna-N
O-Ring	Buna-N
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)



// Other sealing material e.g. Silicone upon request
 // Also available in PVDF *



AG	∅k mm	H mm	R mm	GL mm	Number	GL mm	Number elongated
M 12 x 1,5	3–6,5	26	14	6,5	1.692.1200.50	10	1.692.1200.30
M 16 x 1,5	6–10	29	20	6	1.692.1600.50	10	1.692.1600.30
M 20 x 1,5	10–14	32	24	6	1.692.2000.50	10	1.692.2000.30
M 25 x 1,5	13–18	35	30	7	1.692.2500.50	12	1.692.2500.30
M 32 x 1,5	18–25	41	40	8	1.692.3200.50	12	1.692.3200.30
M 40 x 1,5	22–32	48	50	8	1.692.4000.50	15	1.692.4000.30
M 50 x 1,5	32–38	51	57	9	1.692.5000.50	15	1.692.5000.30
M 50 x 1,5	25–31	51	57	9	1.692.5000.51	15	1.692.5000.31
M 63 x 1,5	37–44	52	64/68	10	1.692.6300.50	15	1.692.6300.30
M 63 x 1,5	29–35	52	64/68	10	1.692.6300.51	15	1.692.6300.31
PG 7*	3–6,5	26	14	5	1.692.0700.01	10	1.692.0700.60
PG 9*	4–8	28	17	6	1.692.0900.01	10	1.692.0900.60
PG 11*	6–10	29	20	6	1.692.1100.01	10	1.692.1100.60
PG 13,5*	6–12	33	22	6,5	1.692.1300.01	10	1.692.1300.60
PG 16*	10–14	32	24	6,5	1.692.1600.01	10	1.692.1600.60
PG 21*	13–18	35	30	7	1.692.2100.01	12	1.692.2100.60
PG 29*	18–25	41	40	8	1.692.2900.01	12	1.692.2900.60
PG 36*	22–32	48	50	8	1.692.3600.01	15	1.692.3600.60
PG 42*	32–38	51	57	9	1.692.4200.01	15	1.692.4200.60
PG 42*	25–31	51	57	9	1.692.4200.15	15	1.692.4200.61
PG 48*	37–44	51	64	10	1.692.4800.01	15	1.692.4800.60
PG 48*	29–35	51	64	10	1.692.4800.15	15	1.692.4800.61
NPT 3/8"	4–8	28	17/19	15	1.692.3800.70		
NPT 1/2"	6–12	29	22/24	13	1.692.1200.70		
NPT 3/4"	13–18	35	30	13	1.692.3400.70		



INDUSTRIAL CABLE GLANDS

HSK cable glands for special applications

Cable glands of the HSK-series fulfil highest demands of quality and security.

Outstanding high-grade materials are used together with innovative technology to offer premium products.

You can find in this chapter:

HSK cable gland series for special applications

- // HSK-INOX-HD-Pro designed for areas in which a hygienic design is needed
- // HSK-Multi with inserts for connecting of more than one cable or flat cables
- // HSK-Flex with bending protection for dynamic applications
- // HSK-W with snap elbow for easy mounting of 90° cable outlet
- // HSK-Mini for smaller sizes than M 12
- // HSK-XL cable glands with M 63 – M 110 or G threads with extended clamping range
- // HSK-MZ with additional strain relief

We provide variable clamping ranges, thread lengths, thread types plus different sealing materials and temperature ranges. Our range is completed by global certifications.

For any further question please do not hesitate to contact us. We look forward to develop solutions together with you. You profit from our vast knowledge in development, engineering and production technology.



HSK CABLE GLANDS FOR SPECIAL APPLICATIONS

HSK-INOX-HD-Pro Metr.

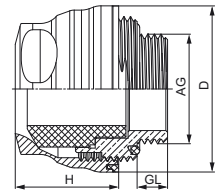


Material HD-enclosure	1.4404 / AISI 316 L
Sealing HD-enclosure	VMQ (Silicone), blue (similar RAL 5012)
Protection	IP 66, IP 68 to 10 bar, IP 69K
Operating Temperature	-40 °C – 120 °C (-40 °F – 248 °F)



- // EMC connection integrated
- // VDMA Riboflavin cleaning test passed
- // EHEDG O1 cleaning test passed
- // EHEDG certificate EL class I AUX approved

ideal for high-pressure cleaning



AG	∅ _k mm	GL mm	H mm	D mm	 mm	Number
M 12 x 1,5	5–6,5	6	19	21	14	1.740.1203.50
M 16 x 1,5	7,5–10	6	20	27	19 / 21	1.740.1603.50
M 16 x 1,5	6–7,5	6	20	27	19 / 21	1.740.1603.51
M 20 x 1,5	11–13,5	6	22,5	33	24 / 27	1.740.2003.50
M 20 x 1,5	9–12	6	22,5	33	24 / 27	1.740.2003.51
M 20 x 1,5	11–13,5	6	20	28	21 / 24	1.740.2003.54
M 25 x 1,5	15–18	7	23,5	38	30	1.740.2503.50
M 25 x 1,5	14–16	7	23,5	38	30	1.740.2503.52
M 32 x 1,5	21–25	8	26,5	45	36	1.740.3203.50
M 32 x 1,5	18–21	8	26,5	45	36	1.740.3203.51

HSK CABLE GLANDS FOR SPECIAL APPLICATIONS

HSK-INOX-HD

Metr.

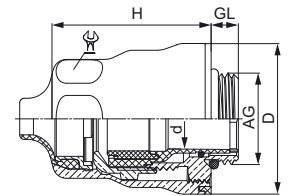


Material HD-enclosure	1.4404 / AISI 316 L
Sealing HD-enclosure	VMQ (Silicone), blue (similar RAL 5012)
Protection	IP 68
Operating Temperature	-40 °C – 120 °C (-40 °F – 248 °F)

EMC

- // EMC integrated
- // VDMA Riboflavintest fulfilled and passed
- // Durability and cleanability tested and passed with compounds from ECOLAB

ideal for
foam-cleaning



AG	\varnothing mm	d mm	GL mm	H mm	D mm	mm	Number
M 12 x 1,5	3,5–6,5	5,8	6	30	21	14	1.740.1202.50
M 16 x 1,5	5–10	9,3	6	34	27	18 / 20	1.740.1602.50
M 20 x 1,5	10–14	13,2	6	34,5	33	24	1.740.2002.50
M 25 x 1,5	13–18	17,3	7	41,5	40	27 / 30	1.740.2502.50

HSK CABLE GLANDS FOR SPECIAL APPLICATIONS

HSK-K-Multi

Metr., PG, NPT

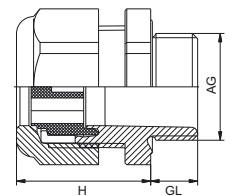


Material	Polyamide VO according to UL 94
Seal	Elastomer
Protection	IP 65 / IP 68 with additional O-Ring
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)
Colors	grey (RAL 7035), black (RAL 9005)



ULF1 in black color

- // With additional pre-assembled O-Ring upon request
- // Please find suitable O-Ring on page 90
- // Other sealing material and colors upon request
- // Elongated threads on request
- // Installation instructions see page 156
- // Further seal inserts on page 88 or on request
- // The shown inserts are samples, more inserts (also customer specific) upon request



AG	GL mm	H mm	mm	Number of holes x d	Number grey	Number black	Number of holes x d	Number grey	Number black
M 16 x 1,5	8	22	19	4 x 1,4	1.597.1600.50	1.597.1600.51	2 x 3	1.597.1601.50	1.597.1601.51
M 20 x 1,5	9	27	24	6 x 3	1.597.2001.50	1.597.2001.51	2 x 5	1.597.2003.50	1.597.2003.51
M 25 x 1,5	11	31	33	4 x 6	1.597.2500.50	1.597.2500.51	3 x 7	1.597.2501.50	1.597.2501.51
M 32 x 1,5	11	39	42	6 x 6,5	1.597.3200.50	1.597.3200.51	4 x 9	1.597.3201.50	1.597.3201.51
M 40 x 1,5	13	48	53	7 x 9	1.597.4001.50	1.597.4001.51	2 x 15	1.597.4003.50	1.597.4003.51
M 50 x 1,5	13	49	60		1.597.5099.50	1.597.5099.51			
M 63 x 1,5	14	49	65/68	6 x 12	1.597.6301.50	1.597.6301.51	3 x 18	1.597.6302.50	1.597.6302.51
PG 7	8	21	15		1.597.0799.00				
PG 9	8	22	19	4 x 1,4	1.597.0900.00	1.597.0900.01	2 x 3	1.597.0901.00	1.597.0901.01
PG 11	8	25	22	2 x 4	1.597.1102.00	1.597.1102.01	3 x 3	1.597.1101.00	1.597.1101.01
PG 13,5	9	27	24	3 x 4	1.597.1302.00	1.597.1302.01	2 x 5	1.597.1303.00	1.597.1303.01
PG 16	10	28	27	4 x 4	1.597.1602.00	1.597.1602.01	6 x 4	1.597.1604.00	1.597.1604.01
PG 16	10	28	27	3 x 5,6	1.597.1606.00	1.597.1606.01	2 x 6	1.597.1605.00	1.597.1605.01
PG 21	11	31	33	4 x 6	1.597.2100.00	1.597.2100.01	3 x 7	1.597.2101.00	1.597.2101.01
PG 29	11	39	42	6 x 6,5	1.597.2900.00	1.597.2900.01	4 x 9	1.597.2901.00	1.597.2901.01
PG 36	13	48	53	7 x 9	1.597.3601.00	1.597.3601.01	2 x 15	1.597.3603.00	1.597.3603.01
PG 42	13	49	60		1.597.4299.00				
PG 48	14	49	65	6 x 12	1.597.4801.00	1.597.4801.01	3 x 18	1.597.4802.00	1.597.4802.01
NPT 3/8"	15	22	19/22	4 x 1,4	1.597.3800.70	1.597.3800.71	2 x 3	1.597.3801.70	1.597.3801.71
NPT 1/2"	13	27	24	3 x 4	1.597.1202.70	1.597.1202.71	2 x 5	1.597.1203.70	1.597.1203.71
NPT 1/2" (16)	13	28	27	6 x 4	1.597.1220.70	1.597.1220.71	2 x 6	1.597.1221.70	1.597.1221.71
NPT 3/4"	14	31	33	4 x 6	1.597.3400.70	1.597.3400.71	3 x 7	1.597.3401.70	1.597.3401.71
NPT 1"	19	39	42	6 x 6,5	1.597.1000.70	1.597.1000.71	4 x 9	1.597.1001.70	1.597.1001.71
NPT 1 1/4"	16	39	42/46		1.597.5499.70	1.597.5499.71			
NPT 1 1/2"	20	48	53	5 x 9	1.597.6400.70	1.597.6400.71	7 x 9	1.597.6401.70	1.597.6401.71

HSK CABLE GLANDS FOR SPECIAL APPLICATIONS

HSK-K-FLAKA

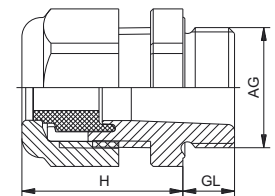
Metr., PG, NPT



Material	Polyamide VO according to UL 94
Seal	Elastomer
Protection	IP 65 / IP 68 with additional O-Ring
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)
Colors	grey (RAL 7035), black (RAL 9005)



- // With additional pre-assembled O-Ring upon request
- // Please find suitable O-Ring on page 90
- // Other sealing material and colors upon request
- // Elongated threads on request
- // Installation instructions see page 156
- // The shown inserts are samples, more inserts upon request



AG	GL mm	H mm	mm	Dimensions w x h mm	Number grey	Number black	Dimensions w x h mm	Number grey	Number black
M 20 x 1,5	9	28	27	11,5 x 5	1.587.2016.50	1.587.2016.51	12 x 7	1.587.2017.50	1.587.2017.51
M 20 x 1,5	9	28	27	14 x 6	1.587.2018.50	1.587.2018.51			
M 25 x 1,5	11	31	33	14 x 6	1.587.2500.50	1.587.2500.51	14 x 7	1.587.2501.50	1.587.2501.51
M 32 x 1,5	11	39	42	22 x 8	1.587.3200.50	1.587.3200.51			
M 40 x 1,5	13	48	53	28,5 x 10	1.587.4000.50	1.587.4000.51	29 x 5,5	1.587.4001.50	1.587.4001.51
M 40 x 1,5	13	48	53	30,5 x 12	1.587.4002.50	1.587.4002.51	31 x 7,5	1.587.4003.50	1.587.4003.51
M 50 x 1,5	13	49	60	33,5 x 11,5	1.587.5000.50	1.587.5000.51			
M 63 x 1,5	14	49	65 / 68	38 x 12	1.587.6300.50	1.587.6301.51			
PG 16	10	28	27	11,5 x 5	1.587.1600.00	1.587.1600.01	12 x 7	1.587.1601.00	1.587.1601.01
PG 16	10	28	27	14 x 6	1.587.1602.00	1.587.1602.01			
PG 21	11	31	33	14 x 6	1.587.2100.00	1.587.2100.01	14 x 7	1.587.2101.00	1.587.2101.01
PG 29	11	39	42	22 x 8	1.587.2900.00	1.587.2900.01			
PG 36	13	48	53	28,5 x 10	1.587.3600.00	1.587.3600.01	29 x 5,5	1.587.3601.00	1.587.3601.01
PG 36	13	48	53	30,5 x 12	1.587.3602.00	1.587.3602.01	31 x 7,5	1.587.3603.00	1.587.3603.01
PG 42	13	49	60	33,5 x 11,5	1.587.4200.00	1.587.4200.01			
PG 48	14	49	65	38 x 12	1.587.4800.00	1.587.4800.01			
NPT 1/2" (16)	13	28	27	11,5 x 5,5	1.587.1216.70	1.587.1216.71	12 x 7	1.587.1217.70	1.587.1217.71
NPT 1/2" (16)	13	28	27	14 x 6	1.587.1218.70	1.587.1218.71			
NPT 3/4"	14	31	33	14 x 6	1.587.3400.70	1.587.3400.71			
NPT 1"	19	39	42	22 x 8	1.587.1000.70	1.587.1000.71			
NPT 1 1/4"	16	39	42 / 46	22 x 8	1.587.5400.70	1.587.5400.71			
NPT 1 1/2"	20	48	53	28,5 x 10	1.587.6400.70	1.587.6400.71	29 x 5,5	1.587.6401.70	1.587.6401.71
NPT 1 1/2"	20	48	53	30,5 x 12	1.587.6402.70	1.587.6402.71	31 x 7,5	1.587.6403.70	1.587.6403.71

HSK CABLE GLANDS FOR SPECIAL APPLICATIONS

HSK-K-Flex

Metr., Metr.-elongated

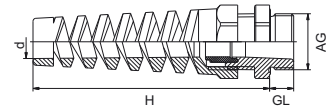


Material	Polyamide
Seal	Buna-N
Protection	IP 68 – 10 bar / IP 69K with additional O-Ring
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)
Colors	grey (RAL 7035), black (RAL 9005)



in black color

- // With additional pre-assembled O-Ring upon request
- // Please find suitable O-Ring on page 90
- // Other sealing material e.g. Silicone upon request
- // Other colors on request



AG	\varnothing mm	H mm	d mm	mm	GL mm	Number grey	Number black	GL mm	Number grey elongated	Number black elongated
M 12 x 1,5	3–6,5	54	7	15	8	1.293.1200.50	1.293.1201.50	15	1.293.1200.30	1.293.1201.30
M 12 x 1,5	2–5	54	7	15	8	1.293.1200.51	1.293.1201.51	15	1.293.1200.31	1.293.1201.31
M 16 x 1,5	4–8	63	8,5	19	8	1.293.1600.50	1.293.1601.50	15	1.293.1600.30	1.293.1601.30
M 16 x 1,5	2–6	63	8,5	19	8	1.293.1600.51	1.293.1601.51	15	1.293.1600.31	1.293.1601.31
M 16 x 1,5	5–10	78	10,5	22	8	1.294.1600.50	1.294.1601.50	15	1.294.1600.30	1.294.1601.30
M 16 x 1,5	3–7	78	10,5	22	8	1.294.1600.51	1.294.1601.51	15	1.294.1600.31	1.294.1601.31
M 20 x 1,5	6–12	90	13	24	9	1.293.2000.50	1.293.2001.50	15	1.293.2000.30	1.293.2001.30
M 20 x 1,5	5–9	90	13	24	9	1.293.2000.51	1.293.2001.51	15	1.293.2000.31	1.293.2001.31
M 20 x 1,5	10–14	100	15,5	27	9	1.294.2000.50	1.294.2001.50	15	1.294.2000.30	1.294.2001.30
M 20 x 1,5	7–12	100	15,5	27	9	1.294.2000.51	1.294.2001.51	15	1.294.2000.31	1.294.2001.31
M 25 x 1,5	13–18	114	20	33	11	1.293.2500.50	1.293.2501.50	15	1.293.2500.30	1.293.2501.30
M 25 x 1,5	9–16	114	20	33	11	1.293.2500.51	1.293.2501.51	15	1.293.2500.31	1.293.2501.31

HSK CABLE GLANDS FOR SPECIAL APPLICATIONS

HSK-K-Flex

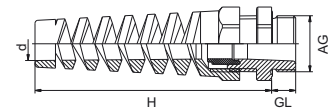
PG, PG-elongated, NPT



Material	Polyamide
Seal	Buna-N
Protection	IP 68 – 10 bar / IP 69K with additional O-Ring
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)
Colors	grey (RAL 7035), black (RAL 9005)



- // With additional pre-assembled O-Ring upon request
- // Please find suitable O-Ring on page 90
- // Other sealing material e.g. Silicone upon request
- // Other colors on request

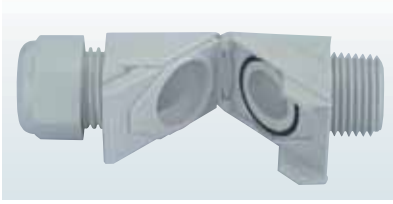


AG	\varnothing mm	H mm	d mm	\varnothing mm	GL mm	Number grey	Number black	GL mm	Number grey elongated	Number black elongated
PG 7*	3–6,5	54	7	15	8	1.293.0700.14	1.293.0701.14	15	1.293.0700.60	1.293.0701.60
PG 7*	2–5	54	7	15	8	1.293.0700.15	1.293.0701.15	15	1.293.0700.61	1.293.0701.61
PG 9*	4–8	63	8,5	19	8	1.293.0900.14	1.293.0901.14	15	1.293.0900.60	1.293.0901.60
PG 9*	2–6	63	8,5	19	8	1.293.0900.15	1.293.0901.15	15	1.293.0900.61	1.293.0901.61
PG 11*	5–10	78	10,5	22	8	1.293.1100.14	1.293.1101.14	15	1.293.1100.60	1.293.1101.60
PG 11*	3–7	78	10,5	22	8	1.293.1100.15	1.293.1101.15	15	1.293.1100.61	1.293.1101.61
PG 13,5*	6–12	90	13	24	9	1.293.1300.14	1.293.1301.14	15	1.293.1300.60	1.293.1301.60
PG 13,5*	5–9	90	13	24	9	1.293.1300.15	1.293.1301.15	15	1.293.1300.61	1.293.1301.61
PG 16*	10–14	100	15,5	27	10	1.293.1600.14	1.293.1601.14	15	1.293.1600.60	1.293.1601.60
PG 16*	7–12	100	15,5	27	10	1.293.1600.15	1.293.1601.15	15	1.293.1600.61	1.293.1601.61
PG 21*	13–18	114	20	33	11	1.293.2100.14	1.293.2101.14	15	1.293.2100.60	1.293.2101.60
PG 21*	9–16	114	20	33	11	1.293.2100.15	1.293.2101.15	15	1.293.2100.61	1.293.2101.61
NPT 3/8"	4–8	63	8,5	22/19	15	1.293.3800.70	1.293.3801.70			
NPT 3/8"	2–6	63	8,5	22/19	15	1.293.3800.71	1.293.3801.71			
NPT 1/2"	6–12	90	13	24	13	1.293.1200.70	1.293.1201.70			
NPT 1/2"	5–9	90	13	24	13	1.293.1200.71	1.293.1201.71			
NPT 1/2" (16)	10–14	100	15,5	27	13	1.293.1216.70	1.293.1217.70			
NPT 1/2" (16)	7–12	100	15,5	27	13	1.293.1216.71	1.293.1217.71			
NPT 3/4"	13–18	114	20	33	14	1.293.3400.70	1.293.3401.70			
NPT 3/4"	9–16	114	20	33	14	1.293.3400.71	1.293.3401.71			

* Also available as KE-Flex with enlarged clamping range and as KR-Flex with reduced clamping range, see clamping range page 19

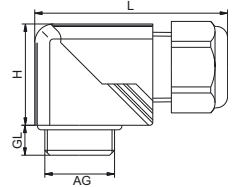
HSK CABLE GLANDS FOR SPECIAL APPLICATIONS

HSK-W Metr.



// Other sealing material e.g. Silicone upon request
 // Other colors on request

Material	Polyamide
Seal / O-Ring	Buna-N
Protection	IP 68
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)
Colors	grey (RAL 7035), black (RAL 9005)



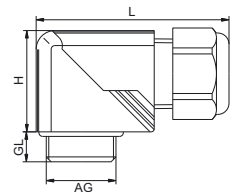
AG	∅k mm	GL mm	H mm	L mm	R mm	mm	Number grey	Number black
M 16 x 1,5	4–8	8	23	45	5	19	1.313.1600.50	1.313.1601.50
M 16 x 1,5	2–6	8	23	45	5	19	1.313.1600.51	1.313.1601.51
M 20 x 1,5	6–12	9	30,5	57	7	24	1.313.2000.50	1.313.2001.50
M 20 x 1,5	5–9	9	30,5	57	7	24	1.313.2000.51	1.313.2001.51
M 25 x 1,5	13–18	11	40	73	10	33	1.313.2500.50	1.313.2501.50
M 25 x 1,5	9–16	11	40	73	10	33	1.313.2500.51	1.313.2501.51
M 32 x 1,5	18–25	11	51,5	91	14	42	1.313.3200.50	1.313.3201.50
M 32 x 1,5	13–20	11	51,5	91	14	42	1.313.3200.51	1.313.3201.51

HSK-W NPT



// Glands not fitted with O-Rings
 // Other sealing material e.g. Silicone upon request
 // Other colors on request

Material	Polyamide
Seal / O-Ring	Buna-N
Protection	IP 68
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)
Colors	grey (RAL 7035), black (RAL 9005)



AG	∅k mm	GL mm	H mm	L mm	R mm	mm	Number grey	Number black
NPT 3/8"	4–8	15	23	45	5	19	1.313.3800.70	1.313.3801.70
NPT 3/8"	2–6	15	23	45	5	19	1.313.3800.71	1.313.3801.71
NPT 1/2"	6–12	13	32,5	57	7	24	1.313.1200.70	1.313.1201.70
NPT 1/2"	5–9	13	32,5	57	7	24	1.313.1200.71	1.313.1201.71
NPT 1/2" (16)	10–14	13	31,5	59	8	27	1.313.1216.70	1.313.1217.70
NPT 1/2" (16)	7–12	13	31,5	59	8	27	1.313.1216.71	1.313.1217.71
NPT 3/4"	13–18	13	40	73	10	33	1.313.3400.70	1.313.3401.70
NPT 3/4"	9–16	13	40	73	10	33	1.313.3400.71	1.313.3401.71
NPT 1"	18–25	19	51,5	91	14	42	1.313.1000.70	1.313.1001.70
NPT 1"	13–20	19	51,5	91	14	42	1.313.1000.71	1.313.1001.71

HSK CABLE GLANDS FOR SPECIAL APPLICATIONS

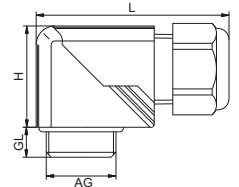
HSK-W

PG



// Other sealing material e.g. Silicone upon request
 // Other colors on request

Material	Polyamide
Seal / O-Ring	Buna-N
Protection	IP 68
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)
Colors	grey (RAL 7035), black (RAL 9005)



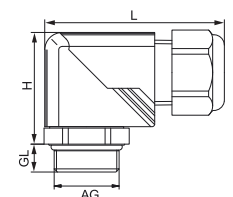
AG	\varnothing mm	GL mm	H mm	L mm	$\overset{R}{\curvearrowright}$ mm	\varnothing mm	Number grey	Number black
PG 9	4–8	8	23	45	5	19	1.313.0900.14	1.313.0901.14
PG 9	2–6	8	23	45	5	19	1.313.0900.15	1.313.0901.15
PG 11	5–10	8	27	50	6	22	1.313.1100.14	1.313.1101.14
PG 11	3–7	8	27	50	6	22	1.313.1100.15	1.313.1101.15
PG 13,5	6–12	9	30,5	57	7	24	1.313.1300.14	1.313.1301.14
PG 13,5	5–9	9	30,5	57	7	24	1.313.1300.15	1.313.1301.15
PG 16	10–14	10	32,5	59	8	27	1.313.1600.14	1.313.1601.14
PG 16	7–12	10	32,5	59	8	27	1.313.1600.15	1.313.1601.15
PG 21	13–18	11	40	73	10	33	1.313.2100.14	1.313.2101.14
PG 21	9–16	11	40	73	10	33	1.313.2100.15	1.313.2101.15
PG 29	18–25	11	51,5	91	14	42	1.313.2900.14	1.313.2901.14
PG 29	13–20	11	51,5	91	14	42	1.313.2900.15	1.313.2901.15

HSK-W rotating version



// Other sealing material e.g. Silicone upon request
 // Other colors on request

Material	Polyamide
Seal / O-Ring	Buna-N
Protection	IP 68
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)
Colors	grey (RAL 7035), black (RAL 9005)



AG	\varnothing mm	GL mm	H mm	L mm	$\overset{R}{\curvearrowright}$ mm	\varnothing mm	Number grey	Number black
PG 9	4–8	8	28	45	5	19	1.317.0900.14	1.317.0901.14
PG 9	2–6	8	28	45	5	19	1.317.0900.15	1.317.0901.15
PG 11	5–10	8	32	50	6	22	1.317.1100.14	1.317.1101.14
PG 11	3–7	8	32	50	6	22	1.317.1100.15	1.317.1101.15
PG 13,5	6–12	9	35,5	57	7	24	1.317.1300.14	1.317.1301.14
PG 13,5	5–9	9	35,5	57	7	24	1.317.1300.15	1.317.1301.15
PG 16	10–14	10	38,5	59	8	27	1.317.1600.14	1.317.1601.14
PG 16	7–12	11	46	73	10	33	1.317.1600.15	1.317.1601.15
PG 21	13–18	11	46	73	10	33	1.317.2100.14	1.317.2101.14
PG 21	9–16	11	46	73	10	33	1.317.2100.15	1.317.2101.15

HSK CABLE GLANDS FOR SPECIAL APPLICATIONS

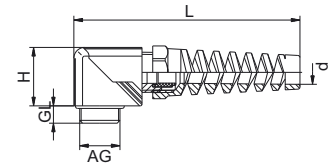
HSK-W-Flex

Metr., PG, NPT



Material	Polyamide
Seal/O-Ring	Buna-N
Protection	IP 68
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)
Colors	grey (RAL 7035), black (RAL 9005)

- // Other sealing material e.g. Silicone upon request
- // Other colors on request



AG	\varnothing mm	d mm	GL mm	H mm	L mm	$\overset{R}{\curvearrowright}$ mm	\varnothing mm	Number grey	Number black
M 16 x 1,5	4-8	8,5	8	23	85	5	19	1.314.1600.50	1.314.1601.50
M 16 x 1,5	2-6	8,5	8	23	85	5	19	1.314.1600.51	1.314.1601.51
M 20 x 1,5	6-12	13	9	30,5	119	7	24	1.314.2000.50	1.314.2001.50
M 20 x 1,5	5-9	13	9	30,5	119	7	24	1.314.2000.51	1.314.2001.51
M 25 x 1,5	13-18	20	11	40	156	10	33	1.314.2500.50	1.314.2501.50
M 25 x 1,5	9-16	20	11	40	156	10	33	1.314.2500.51	1.314.2501.51
PG 9	4-8	8,5	8	23	85	5	19	1.314.0900.14	1.314.0901.14
PG 9	2-6	8,5	8	23	85	5	19	1.314.0900.15	1.314.0901.15
PG 11	5-10	10,5	8	27	103	6	22	1.314.1100.14	1.314.1101.14
PG 11	3-7	10,5	8	27	103	6	22	1.314.1100.15	1.314.1101.15
PG 13,5	6-12	13	9	30,5	119	7	24	1.314.1300.14	1.314.1301.14
PG 13,5	5-9	13	9	30,5	119	7	24	1.314.1300.15	1.314.1301.15
PG 16	10-14	15,5	10	32,5	130	8	27	1.314.1600.14	1.314.1601.14
PG 16	7-12	15,5	10	32,5	130	8	27	1.314.1600.15	1.314.1601.15
PG 21	13-18	20	11	40	156	10	33	1.314.2100.14	1.314.2101.14
PG 21	9-16	20	11	40	156	10	33	1.314.2100.15	1.314.2101.15
NPT* 3/8"	4-8	8,5	15	23	85	5	19	1.314.3800.70	1.314.3801.70
NPT* 3/8"	2-6	8,5	15	23	85	5	19	1.314.3800.71	1.314.3801.71
NPT* 1/2"	6-12	13	13	30,5	119	7	24	1.314.1200.70	1.314.1201.70
NPT* 1/2"	5-9	13	13	30,5	119	7	24	1.314.1200.71	1.314.1201.71
NPT* 1/2" (16)	10-14	15,5	13	31,5	130	8	27	1.314.1216.70	1.314.1217.70
NPT* 1/2" (16)	7-12	15,5	13	31,5	130	8	27	1.314.1216.71	1.314.1217.71
NPT* 3/4"	13-18	20	13	40	156	10	33	1.314.3400.70	1.314.3401.70
NPT* 3/4"	9-16	20	13	40	156	10	33	1.314.3400.71	1.314.3401.71

HSK CABLE GLANDS FOR SPECIAL APPLICATIONS

HSK-M-Multi

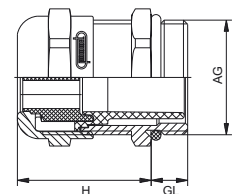
Metr., PG, NPT



Material	Nickel plated brass
Clamping insert	Polyamide
Seal	Elastomer
O-Ring	Buna-N
Protection	IP 65 / IP 68 10 bar possible with ideal fit
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)



- // Other sealing material e.g. Silicone upon request
- // Stainless steel on request
- // Elongated threads on request
- // Installation instructions see page 156
- // The shown inserts are samples, more seal inserts on page 88 or on request

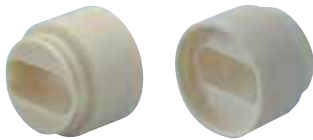


AG	GL mm	H mm	Ø mm	Number of holes x d	Number	Number of holes x d	Number
M 12 x 1,5	6,5	19	14		1.697.1299.50		1.697.1299.50
M 16 x 1,5	6	21	17/19	4 x 1,4	1.697.1600.50	2 x 3	1.697.1601.50
M 20 x 1,5	6	23	22	6 x 3	1.697.2001.50	2 x 5	1.697.2003.50
M 25 x 1,5	7	26	30	4 x 6	1.697.2500.50	3 x 7	1.697.2501.50
M 32 x 1,5	8	31	40	6 x 6,5	1.697.3200.50	4 x 9	1.697.3201.50
M 40 x 1,5	8	37	50	7 x 9	1.697.4001.50	2 x 15	1.697.4003.50
M 50 x 1,5	9	37	57		1.697.5099.50		
M 63 x 1,5	10	38	64/68	6 x 12	1.697.6301.50	3 x 18	1.697.6302.50
PG 7	5	19	14		1.697.0799.01		1.697.0799.01
PG 9	6	21	17	4 x 1,4	1.697.0900.01	2 x 3	1.697.0901.01
PG 11	6	22	20	2 x 4	1.697.1102.01	3 x 3	1.697.1101.01
PG 13,5	6,5	24	22	3 x 4	1.697.1302.01	2 x 5	1.697.1303.01
PG 16	6,5	23	24	4 x 4	1.697.1602.01	6 x 4	1.697.1604.01
PG 16	6,5	23	24	3 x 5,6	1.697.1606.01	2 x 6	1.697.1605.01
PG 21	7	24	30	4 x 6	1.697.2100.01	3 x 7	1.697.2101.01
PG 29	8	29	40	6 x 6,5	1.697.2900.01	4 x 9	1.697.2901.01
PG 36	8	35	50	7 x 9	1.697.3601.01	2 x 15	1.697.3603.01
PG 42	9	37	57		1.697.4299.01		1.697.4299.01
PG 48	10	38	64	6 x 12	1.697.4801.01	3 x 18	1.697.4802.01
NPT 3/8"	15	21	17/19	4 x 1,4	1.697.3800.70	2 x 3	1.697.3801.70
NPT 1/2"	13	24	24	3 x 4	1.697.1202.70	2 x 5	1.697.1203.70
NPT 3/4"	13	25	30	4 x 6	1.697.3400.70	3 x 7	1.697.3401.70
NPT 1"	19	29	40	6 x 6,5	1.697.1000.70	4 x 9	1.697.1001.70

HSK CABLE GLANDS FOR SPECIAL APPLICATIONS

HSK-M-FLAKA

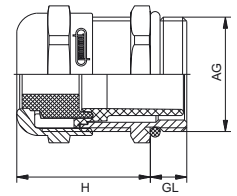
Metr., PG, NPT



Material	Nickel plated brass
Clamping insert	Polyamide
Seal	Elastomer
O-Ring	Buna-N
Protection	IP 65 / IP 68 10 bar possible with ideal fit
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)



- // Other sealing material e.g. Silicone upon request
- // Stainless steel on request
- // Elongated threads on request
- // Installation instructions see page 156
- // The shown inserts are samples, more inserts upon request



AG	GL mm	H mm	mm	w x h mm	Number	w x h mm	Number
M 20 x 1,5	6	24	24	11,5 x 5	1.688.2016.50	12 x 7	1.688.2017.50
M 20 x 1,5	6	24	24	14 x 6	1.688.2018.50		
M 25 x 1,5	7	26	30	14 x 6	1.688.2500.50	14 x 7	1.688.2501.50
M 32 x 1,5	8	31	40	22 x 8	1.688.3200.50		
M 40 x 1,5	8	37	50	28,5 x 10	1.688.4000.50	29 x 5,5	1.688.4001.50
M 40 x 1,5	8	37	50	30,5 x 12	1.688.4002.50	31 x 7,5	1.688.4003.50
M 50 x 1,5	9	37	57	33,5 x 11,5	1.688.5000.50		
M 63 x 1,5	10	38	64 / 68	38 x 12	1.688.6300.50		
PG 16	6,5	23	24	11,5 x 5	1.688.1600.01	12 x 7	1.688.1601.01
PG 16	6,5	23	24	14 x 6	1.688.1602.01		
PG 21	7	24	30	14 x 6	1.688.2100.01	14 x 7	1.688.2101.01
PG 29	8	29	40	22 x 8	1.688.2900.01		
PG 36	8	35	50	28,5 x 10	1.688.3600.01	29 x 5,5	1.688.3601.01
PG 36	8	35	50	30,5 x 12	1.688.3602.01	31 x 7,5	1.688.3603.01
PG 42	9	37	57	33,5 x 11,5	1.688.4200.01		
PG 48	10	38	64	38 x 12	1.688.4802.01		
NPT 3/4"	13	25	30	14 x 6	1.688.3400.70	14 x 7	1.688.3401.70
NPT 1"	19	29	40	22 x 8	1.688.1000.70		

HSK CABLE GLANDS FOR SPECIAL APPLICATIONS

HSK-M-Flex

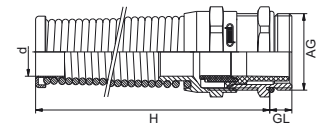
Metr. / Metr.-elongated



Material	Nickel plated brass
Steel spring	INOX 1.4310
Clamping insert	Polyamide
Seal	Buna-N
O-Ring	Buna-N
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)



// Other sealing material e.g. Silicone upon request



AG	Ø mm	H mm	d mm	Ø mm	GL mm	Number	GL mm	Number elongated
M 12 x 1,5	3–6,5	55	6,8	14	6,5	1.623.1200.50	10	1.623.1200.30
M 12 x 1,5	2–5	55	6,8	14	6,5	1.623.1200.51	10	1.623.1200.31
M 16 x 1,5	4–8	66	8,2	19	6	1.623.1600.50	10	1.623.1600.30
M 16 x 1,5	2–6	66	8,2	19	6	1.623.1600.51	10	1.623.1600.31
M 16 x 1,5	5–10	77	10,3	20	6	1.623.1611.50	10	1.623.1611.30
M 16 x 1,5	3–7	77	10,3	20	6	1.623.1611.51	10	1.623.1611.31
M 20 x 1,5	6–12	88	12,3	22	6	1.623.2000.50	10	1.623.2000.30
M 20 x 1,5	5–9	88	12,3	22	6	1.623.2000.51	10	1.623.2000.31
M 20 x 1,5	10–14	98	14,3	24	6	1.623.2016.50	10	1.623.2016.30
M 20 x 1,5	7–12	98	14,3	24	6	1.623.2016.51	10	1.623.2016.31
M 25 x 1,5	13–18	111	18,4	30	7	1.623.2500.50	12	1.623.2500.30
M 25 x 1,5	9–16	111	18,4	30	7	1.623.2500.51	12	1.623.2500.31

HSK CABLE GLANDS FOR SPECIAL APPLICATIONS

HSK-M-Flex

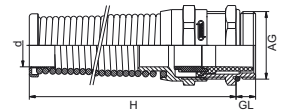
PG, PG-elongated



Material	Nickel plated brass
Steel spring	INOX 1.4310
Clamping insert	Polyamide
Seal / O-Ring	Buna-N
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)



// Other sealing material e.g. Silicone upon request



AG	Ø mm	H mm	d mm	 mm	GL mm	Number	GL mm	Number elongated
PG 7	3–6,5	55	6,8	14	5	1.623.0700.01	10	1.623.0700.60
PG 7	2–5	55	6,8	14	5	1.623.0700.15	10	1.623.0700.61
PG 9	4–8	66	8,2	17	6	1.623.0900.01	10	1.623.0900.60
PG 9	2–6	66	8,2	17	6	1.623.0900.15	10	1.623.0900.61
PG 11	5–10	77	10,3	20	6	1.623.1100.01	10	1.623.1100.60
PG 11	3–7	77	10,3	20	6	1.623.1100.15	10	1.623.1100.61
PG 13,5	6–12	88	12,3	22	6,5	1.623.1300.01	10	1.623.1300.60
PG 13,5	5–9	88	12,3	22	6,5	1.623.1300.15	10	1.623.1300.61
PG 16	10–14	98	14,3	24	6,5	1.623.1600.01	10	1.623.1600.60
PG 16	7–12	98	14,3	24	6,5	1.623.1600.15	10	1.623.1600.61
PG 21	13–18	111	18,4	30	7	1.623.2100.01	12	1.623.2100.60
PG 21	9–16	111	18,4	30	7	1.623.2100.15	12	1.623.2100.61

HSK CABLE GLANDS FOR SPECIAL APPLICATIONS

HSK-M-Flex

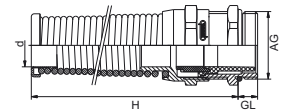
NPT



Material	Nickel plated brass
Steel spring	INOX 1.4310
Clamping insert	Polyamide
Seal / O-Ring	Buna-N
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)



// Other sealing material e.g. Silicone upon request



AG	\varnothing mm	GL mm	H mm	d mm	 mm	Number
NPT 3/8"	4–8	15	66	8,2	17/19	1.623.3800.70
NPT 3/8"	2–6	15	66	8,2	17/19	1.623.3800.71
NPT 1/2"	6–12	13	88	12,3	22/24	1.623.1200.70
NPT 1/2"	5–9	13	88	12,3	22/24	1.623.1200.71
NPT 3/4"	13–18	13	111	18,4	33	1.623.3400.70
NPT 3/4"	9–16	13	111	18,4	33	1.623.3400.71

HSK CABLE GLANDS FOR SPECIAL APPLICATIONS

HSK-MINI

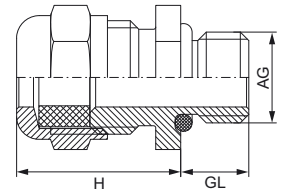
Metr., PG



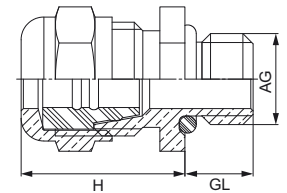
Material	Nickel plated brass / INOX 1.4305
Seal	Buna-N / TPE / FKM
O-Ring	Buna-N / FKM
Protection	IP 68
Operating Temperature	-20 °C – 100 °C (-4 °F – 212 °F) (Buna-N / TPE) -25 °C – 200 °C (-13 °F – 392 °F) (FKM)



HSK-Mini



HSK-Mini EMC



AG	\varnothing mm	GL mm	H mm	\varnothing mm	Number Buna-N / TPE	Number FKM
M 6 x 1	2-3,2	6	10	8	1.106.0601.50	1.106.0600.55
M 8 x 0,75	2-4,5	3,5	14,3	11	1.112.0801.01	
M 8 x 1,25	3-5	6	13	11	1.106.0801.50	1.106.0800.55
M 10 x 1,5	4-6	6	14	12	1.106.1001.50	1.106.1000.55
PG 7	2-4,5	3,5	14,3	11 / 15	1.112.0708.01	
HSK-Mini elongated						
M 8 x 1,25	3-5	10	13	11	1.106.0801.30	1.106.0800.35
M 10 x 1,5	4-6	10	14	12	1.106.1001.30	1.106.1000.35
HSK-Mini EMC						
M 8 x 1,25	3-5	6	13	11	1.119.0800.50	
M 10 x 1,5	4-6	6	14	12	1.119.1000.50	
HSK-Mini INOX						
M 8 x 1,25	3-5	6	13	11	1.129.0800.50	1.129.0800.55
M 10 x 1,5	4-6	6	14	12	1.129.1000.50	1.129.1000.55

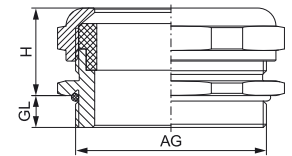
HSK CABLE GLANDS FOR SPECIAL APPLICATIONS


HSK-XL

Metr.



Material	Nickel plated brass
Seal	Buna-N
O-Ring	Buna-N
Protection	IP 68
Operating Temperature	-20 °C – 100 °C (-4 °F – 212 °F)



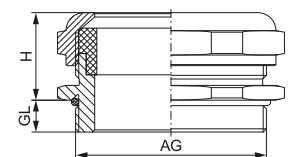
AG	∅ _k mm	GL mm	H mm	 mm	Number
M 63 x 1,5	48–55	10	42	75	1.106.6375.50
M 75 x 1,5	48–55	15	42	80	1.106.7500.50
M 75 x 1,5	53–60	15	42	85	1.106.7500.51
M 80 x 2	58–65	15	42	90	1.106.8000.50
M 90 x 2	63–70	15	42	100	1.106.9000.50
M 90 x 2	68–75	15	52	100	1.106.9000.51
M 100 x 2	78–85	20	52	110	1.106.1000.50
M 100 x 2	73–80	20	52	110	1.106.1000.51
M 110 x 2	83–90	20	52	120	1.106.1100.51


HSK-XL

PG



Material	Nickel plated brass
Seal	Buna-N
O-Ring	Buna-N
Protection	IP 68
Operating Temperature	-20 °C – 100 °C (-4 °F – 212 °F)



AG	∅ _k mm	GL mm	H mm	 mm	Number
G 2 1/2"	48–55	18	42	80	1.106.5200.01
G 2 1/2"	53–60	18	42	85	1.106.5201.01
G 3"	58–65	18	42	90/95	1.106.3000.01
G 3"	63–70	18	42	100	1.106.3001.01
G 4"	68–75	22	52	100/120	1.106.4000.01
G 4"	73–80	22	52	110/120	1.106.4001.01
G 4"	78–85	22	52	110/120	1.106.4002.01
G 4"	83–90	22	52	120	1.106.4003.01

HSK CABLE GLANDS FOR SPECIAL APPLICATIONS

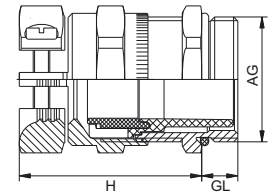
HSK-MZ / HSK-MZ-PVDF

Metr., Metr.-elongated



Material	Nickel plated brass
Clamping insert	Polyamide / PVDF
Seal	Buna-N / FKM
O-Ring	Buna-N / FKM
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG) within the specified clamping range
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F) (PA) -35 °C – 150 °C (-31 °F – 302 °F) (PVDF)

// Other sealing material e.g. Silicone upon request



AG	∅ _k mm	H mm	 mm	GL mm	Number		GL mm	Number	
					HSK-MZ -40 °C – 100 °C	HSK-MZ-PVDF -35 °C – 150 °C		HSK-MZ elongated -40 °C – 100 °C	HSK-MZ elongated -40 °C – 100 °C
M 12 x 1,5	3–6,5	26	14	6,5	1.690.1200.50	1.669.1200.50	10	1.690.1200.30	
M 16 x 1,5	4–8	28	17/19	6	1.690.1600.50	1.669.1600.50	10	1.690.1600.30	
M 16 x 1,5	6–10	30	20	6	1.690.1611.50	1.669.1611.50	10	1.690.1611.30	
M 20 x 1,5	6–12	33	22	6	1.690.2000.50	1.669.2000.50	10	1.690.2000.30	
M 20 x 1,5	10–14	33	24	6	1.690.2016.50	1.669.2016.50	10	1.690.2016.30	
M 25 x 1,5	13–18	37	30	7	1.690.2500.50	1.669.2500.50	12	1.690.2500.30	
M 32 x 1,5	18–25	43	40	8	1.690.3200.50	1.669.3200.50	12	1.690.3200.30	
M 40 x 1,5	22–32	50	50	8	1.690.4000.50	1.669.4000.50	15	1.690.4000.30	
M 50 x 1,5	32–38	51	57	9	1.690.5000.50		15	1.690.5000.30	
M 50 x 1,5	25–31	51	57	9	1.690.5000.51		15	1.690.5000.31	
M 63 x 1,5	37–44	52	64/68	10	1.690.6300.50		15	1.690.6300.30	
M 63 x 1,5	29–35	52	64/68	10	1.690.6300.51		15	1.690.6300.31	

HSK CABLE GLANDS FOR SPECIAL APPLICATIONS

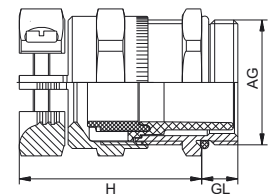
HSK-MZ / HSK-MZ-PVDF

PG, PG-elongated, NPT



Material	Nickel plated brass
Clamping insert	Polyamide / PVDF
Seal	Buna-N / FKM
O-Ring	Buna-N / FKM
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F) (PA) -35 °C – 150 °C (-31 °F – 302 °F) (PVDF)

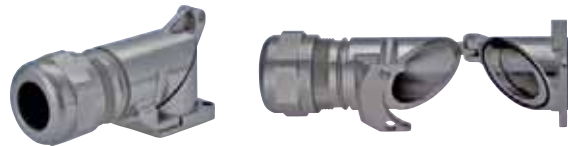
// Other sealing material e.g. Silicone upon request



AG	\varnothing mm	H mm	\varnothing mm	GL mm	Number HSK-MZ -40 °C – 100 °C	Number HSK-MZ-PVDF -35 °C – 150 °C	GL mm	Number elongated
PG 7	3–6,5	26	14	5	1.690.0700.01	1.669.0700.01	10	1.690.0700.60
PG 9	4–8	28	17	6	1.690.0900.01	1.669.0900.01	10	1.690.0900.60
PG 11	6–10	30	20	6	1.690.1100.01	1.669.1100.01	10	1.690.1100.60
PG 13,5	6–12	33	22	6,5	1.690.1300.01	1.669.1300.01	10	1.690.1300.60
PG 16	10–14	33	24	6,5	1.690.1600.01	1.669.1600.01	10	1.690.1600.60
PG 21	13–18	37	30	7	1.690.2100.01	1.669.2100.01	12	1.690.2100.60
PG 29	18–25	43	40	8	1.690.2900.01	1.669.2900.01	12	1.690.2900.60
PG 36	22–36	50	50	8	1.690.3600.01	1.669.3600.01	15	1.690.3600.60
PG 42	32–38	51	57	9	1.690.4200.01	1.669.4200.01	15	1.690.4200.60
PG 42	25–31	51	57	9	1.690.4200.15	1.669.4200.15	15	1.690.4200.61
PG 48	37–44	52	64	10	1.690.4800.01	1.669.4800.01	15	1.690.4800.60
PG 48	29–35	51	64	10	1.690.4800.15	1.669.4800.15	15	1.690.4800.61
NPT 3/8"	4–8	28	17/19	15	1.690.3800.70	1.669.3800.70		
NPT 1/2"	7–12	33	22/24	13	1.690.1200.70	1.669.1200.70		
NPT 3/4"	13–18	37	30	13	1.690.3400.70	1.669.3400.70		
NPT 1"	18–25	43	40	19	1.690.1000.70			

HSK CABLE GLANDS FOR SPECIAL APPLICATIONS

HSK-M-W Metr., PG

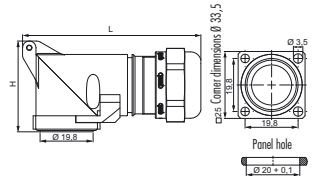


Material	Zinc die casting / Nickel plated brass
Clamping insert	Polyamide
Seal ring	Buna-N
O-Ring	Buna-N
Protection	IP 68
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)

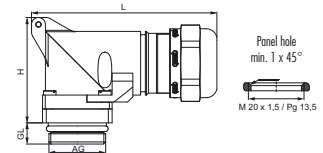
// Other sealing material e.g. Silicone upon request



With mounting flange



With threaded connection



AG	$\sqrt{\text{Ø}}$ mm	GL mm	H mm	L mm	$\overset{R}{\curvearrowright}$ mm		Number
With mounting flange							
	10–14		29	66	7	25	1.309.2000.50
	7–12		29	66	7	25	1.309.2000.51
With threaded connection							
M 20 x 1,5	10–14	6	37	66	7	25	1.309.2020.50
	7–12	6	37	66	7	25	1.309.2020.51
PG 13,5	10–14	6	37	66	7	25	1.309.2013.50
	7–12	6	37	66	7	25	1.309.2013.51

INDUSTRIAL CABLE GLANDS

METRICA cable glands

Cable glands of the METRICA series are based on metric dimensions. So these glands offer space saving with optimised clamping ranges.

Both plastic and nickel plated brass versions feature recessed grooves for O-rings on the connecting thread. In combination with the sealing O-Ring these glands keep the protection rating IP 68 also with the high pressure of 10 bars.

You can find in this chapter:

METRICA cable glands made of

- // Polyamide
- // polyamide with bending protection
- // brass nickel plated
- // brass nickel plated EMC and EMC-E version for easy installation

We provide variable clamping ranges and thread lengths.

For any further question please do not hesitate to contact us. We look forward to develop solutions together with you.

You profit from our vast knowledge in development, engineering and production technology.



METRICA CABLE GLANDS

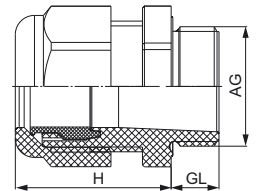
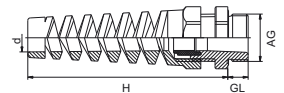
METRICA-P, METRICA-P-Flex

Metr.



Material	Polyamide
Seal	Buna-N
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG) within the specified clamping range
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)
Colors	grey (RAL 7035), black (RAL 9005), blue (RAL 5012) for the intrinsic safety „I“

- // With additional pre-assembled O-Ring upon request
- // Please find suitable O-Ring on page 90
- // Other colors on request



AG	\varnothing mm	GL mm	H mm	 mm	d mm	Number grey	Number black	Number blue
M 12 x 1,5	4–7	8	22	15		1.218.1200.50	1.218.1201.50	1.218.1202.50
M 12 x 1,5	2–5	8	22	15		1.218.1200.51	1.218.1201.51	1.218.1202.51
M 16 x 1,5	6–10	8	26	19		1.218.1600.50	1.218.1601.50	1.218.1602.50
M 16 x 1,5	3–7	8	26	19		1.218.1600.51	1.218.1601.51	1.218.1602.51
M 20 x 1,5	8–13	9	29	24		1.218.2000.50	1.218.2001.50	1.218.2002.50
M 20 x 1,5	7–10	9	29	24		1.218.2000.51	1.218.2001.51	1.218.2002.51
M 25 x 1,5	11–17	10	33	30		1.218.2500.50	1.218.2501.50	1.218.2502.50
M 25 x 1,5	8–13	10	33	30		1.218.2500.51	1.218.2501.51	1.218.2502.51
M 32 x 1,5	11–21	10	41	36		1.218.3200.50	1.218.3201.50	1.218.3202.50
M 32 x 1,5	10–15	10	41	36		1.218.3200.51	1.218.3201.51	1.218.3202.51
M 40 x 1,5	19–28	12	46	46		1.218.4000.50	1.218.4001.50	1.218.4002.50
M 40 x 1,5	15–23	12	46	46		1.218.4000.51	1.218.4001.51	1.218.4002.51
M 50 x 1,5	27–35	12	52	55		1.218.5000.50	1.218.5001.50	1.218.5002.50
M 50 x 1,5	22–29	12	52	55		1.218.5000.51	1.218.5001.51	1.218.5002.51
M 63 x 1,5	36–48	12	57	68		1.218.6300.50	1.218.6301.50	1.218.6302.50
M 63 x 1,5	28–39	12	57	68		1.218.6300.51	1.218.6301.51	1.218.6302.51

METRICA-P-Flex

M 12 x 1,5	4–7	8	55,5	15	7,5	1.238.1200.50	1.238.1201.50	
M 12 x 1,5	2–5	8	55,5	15	7,5	1.238.1200.51	1.238.1201.51	
M 16 x 1,5	6–10	8	67	19	10,5	1.238.1600.50	1.238.1601.50	
M 16 x 1,5	3–7	8	67	19	10,5	1.238.1600.51	1.238.1601.51	
M 20 x 1,5	8–13	9	92,5	24	14	1.238.2000.50	1.238.2001.50	
M 20 x 1,5	7–10	9	92,5	24	14	1.238.2000.51	1.238.2001.51	
M 25 x 1,5	11–17	10	113	30	19	1.238.2500.50	1.238.2501.50	
M 25 x 1,5	8–13	10	113	30	19	1.238.2500.51	1.238.2501.51	

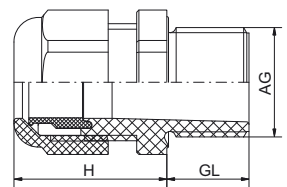
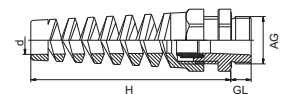
METRICA-P, METRICA-P-Flex

Metr.-elongated



Material	Polyamide
Seal	Buna-N
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG) within the specified clamping range
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)
Colors	grey (RAL 7035), black (RAL 9005), blue (RAL 5012) for the intrinsic safety „i”

- // With additional pre-assembled O-Ring upon request
- // Please find suitable O-Ring on page 90
- // Other colors on request



AG	\varnothing mm	GL mm	H mm	\varnothing mm	d mm	Number grey	Number black	Number blue
M 12 x 1,5	4–7	15	22	15		1.218.1200.30	1.218.1201.30	1.218.1202.30
M 12 x 1,5	2–5	15	22	15		1.218.1200.31	1.218.1201.31	1.218.1202.31
M 16 x 1,5	6–10	15	26	19		1.218.1600.30	1.218.1601.30	1.218.1602.30
M 16 x 1,5	3–7	15	26	19		1.218.1600.31	1.218.1601.31	1.218.1602.31
M 20 x 1,5	8–13	15	29	24		1.218.2000.30	1.218.2001.30	1.218.2002.30
M 20 x 1,5	7–10	15	29	24		1.218.2000.31	1.218.2001.31	1.218.2002.31
M 25 x 1,5	11–17	15	33	30		1.218.2500.30	1.218.2501.30	1.218.2502.30
M 25 x 1,5	8–13	15	33	30		1.218.2500.31	1.218.2501.31	1.218.2502.31
M 32 x 1,5	11–21	15	41	36		1.218.3200.30	1.218.3201.30	1.218.3202.30
M 32 x 1,5	10–15	15	41	36		1.218.3200.31	1.218.3201.31	1.218.3202.31
M 40 x 1,5	19–28	18	46	46		1.218.4000.30	1.218.4001.30	1.218.4002.30
M 40 x 1,5	15–23	18	46	46		1.218.4000.31	1.218.4001.31	1.218.4002.31
M 50 x 1,5	27–35	18	52	55		1.218.5000.30	1.218.5001.30	1.218.5002.30
M 50 x 1,5	22–29	18	52	55		1.218.5000.31	1.218.5001.31	1.218.5002.31
M 63 x 1,5	36–48	18	57	68		1.218.6300.30	1.218.6301.30	1.218.6302.30
M 63 x 1,5	28–39	18	57	68		1.218.6300.31	1.218.6301.31	1.218.6302.31

METRICA-P-Flex

M 12 x 1,5	4–7	15	55,5	15	7,5	1.238.1200.30	1.238.1201.30	
M 12 x 1,5	2–5	15	55,5	15	7,5	1.238.1200.31	1.238.1201.31	
M 16 x 1,5	6–10	15	67	19	10,5	1.238.1600.30	1.238.1601.30	
M 16 x 1,5	3–7	15	67	19	10,5	1.238.1600.31	1.238.1601.31	
M 20 x 1,5	8–13	15	92,5	24	14	1.238.2000.30	1.238.2001.30	
M 20 x 1,5	7–10	15	92,5	24	14	1.238.2000.31	1.238.2001.31	
M 25 x 1,5	11–17	15	113	30	19	1.238.2500.30	1.238.2501.30	
M 25 x 1,5	8–13	15	113	30	19	1.238.2500.31	1.238.2501.31	

METRICA CABLE GLANDS

METRICA-M

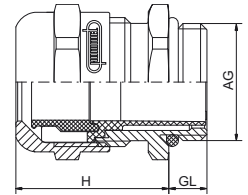
Metr., Metr.-elongated



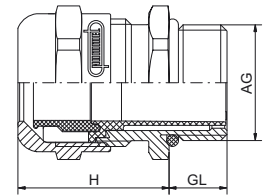
Material	Nickel plated brass
Clamping insert	Polyamide
Seal	Buna-N
O-Ring	Buna-N
Protection	IP 68 – 10 bar (NEMA 6 – 150 PSIG)
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)



Metr.



Metr.-elongated



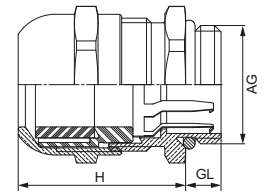
AG	\varnothing mm	H mm	\varnothing mm	GL mm	Number	GL mm	Number elongated
M 12 x 1,5	4-7	20	14	6	1.618.1200.50	10	1.618.1200.30
M 12 x 1,5	2-5	20	14	6	1.618.1200.51	10	1.618.1200.31
M 16 x 1,5	6-10	25	19	6	1.618.1600.50	10	1.618.1600.30
M 16 x 1,5	3-7	25	19	6	1.618.1600.51	10	1.618.1600.31
M 20 x 1,5	8-13	26	24	6,5	1.618.2000.50	10	1.618.2000.30
M 20 x 1,5	7-10	26	24	6,5	1.618.2000.51	10	1.618.2000.31
M 25 x 1,5	11-17	29	29	7	1.618.2500.50	12	1.618.2500.30
M 25 x 1,5	8-13	29	29	7	1.618.2500.51	12	1.618.2500.31
M 32 x 1,5	11-21	37	34	8	1.618.3200.50	12	1.618.3200.30
M 32 x 1,5	10-15	37	34	8	1.618.3200.51	12	1.618.3200.31
M 40 x 1,5	19-28	40,5	44	8	1.618.4000.50	15	1.618.4000.30
M 40 x 1,5	15-23	40,5	44	8	1.618.4000.51	15	1.618.4000.31
M 50 x 1,5	27-35	49,5	55	9	1.618.5000.50	15	1.618.5000.30
M 50 x 1,5	22-29	49,5	55	9	1.618.5000.51	15	1.618.5000.31
M 63 x 1,5	34-48	49	68	10	1.618.6300.50	15	1.618.6300.30
M 63 x 1,5	28-39	49	68	10	1.618.6300.51	15	1.618.6300.31

METRICA-M-EMC-E

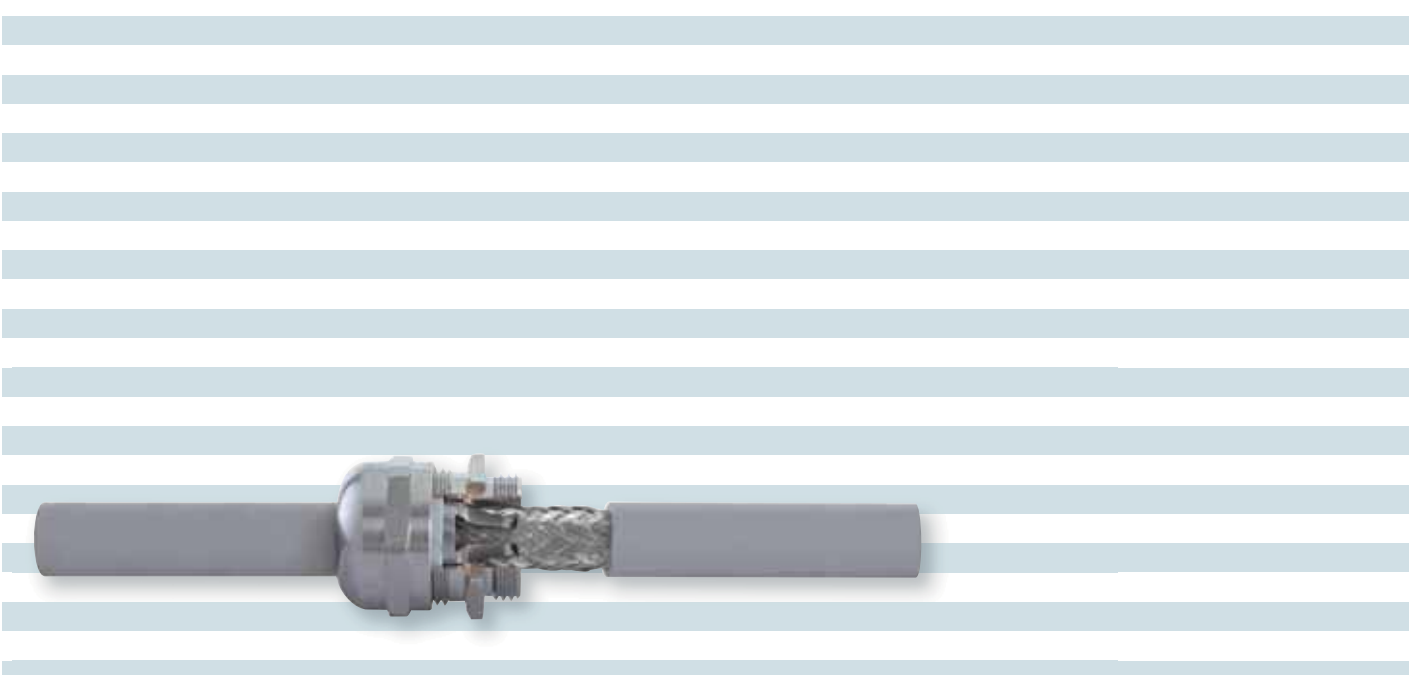
Metr.



Material	Nickel plated brass
Clamping insert	Polyamide
Seal	Buna-N
O-Ring	Buna-N
Protection	IP 68 – 5 bar
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)



AG	\varnothing mm	GL mm	H mm	 mm	Number
M 12 x 1,5	3–6,5	6	19,4	14	1.607.1200.50
M 16 x 1,5	4,5–10	6	24,4	19	1.607.1600.50
M 20 x 1,5	6–12	6	25,4	22	1.607.2013.50
M 20 x 1,5	7,5–14	6	28,3	24	1.607.2000.50
M 25 x 1,5	9–17	7	29,3	29	1.607.2500.50
M 32 x 1,5	11–21	8	37,7	34	1.607.3200.50
M 40 x 1,5	19–28	8	40,7	44	1.607.4000.50
M 50 x 1,5	27–35	9	50,7	55	1.607.5000.50
M 63 x 1,5	34–48	10	55,7	68	1.607.6300.50



METRICA CABLE GLANDS

METRICA-M-EMC

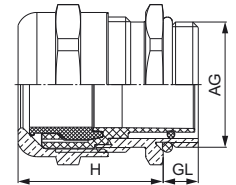
Metr., Metr.-elongated



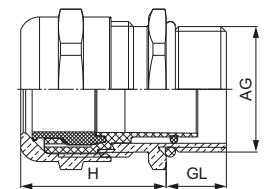
Material	Nickel plated brass
Clamping insert	Polyamide
Seal	Buna-N
O-Ring	Buna-N
Protection	IP 68 – 10 bar (NEMA 6 – 150 PSIG)
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)



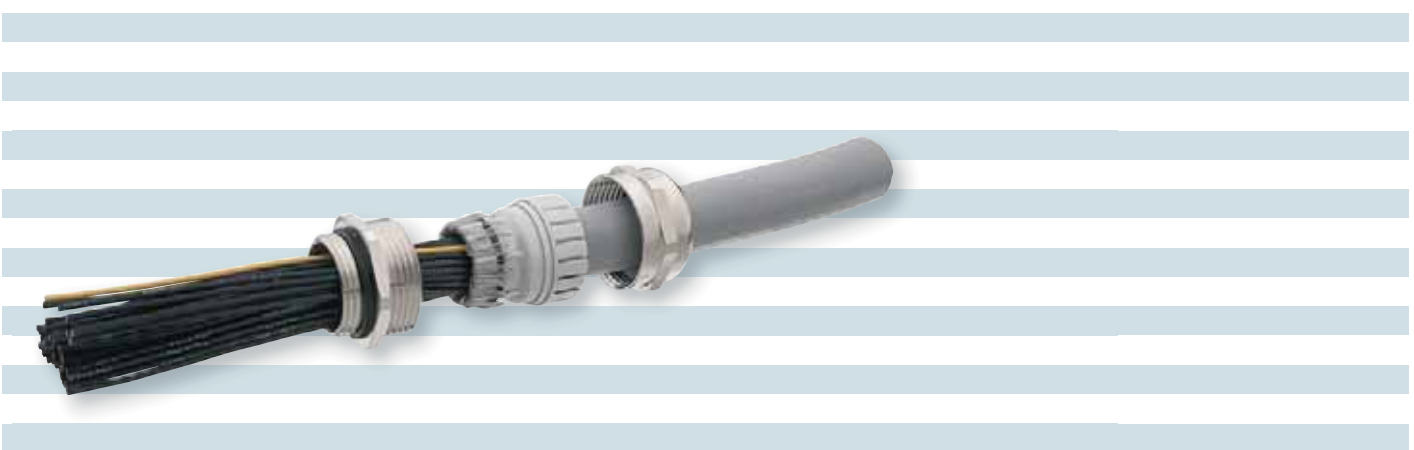
Metr.



Metr.-elongated



AG	∅ mm	H mm	∅ mm	GL mm	Number	GL mm	Number elongated
M 12 x 1,5	4-7	20	14	6	1.683.1200.50	10	1.683.1200.30
M 12 x 1,5	2-5	20	14	6	1.683.1200.51	10	1.683.1200.31
M 16 x 1,5	6-10	25	19	6	1.683.1600.50	10	1.683.1600.30
M 16 x 1,5	3-7	25	19	6	1.683.1600.51	10	1.683.1600.31
M 20 x 1,5	8-13	26	24	6,5	1.683.2000.50	10	1.683.2000.30
M 20 x 1,5	7-10	26	24	6,5	1.683.2000.51	10	1.683.2000.31
M 25 x 1,5	11-17	29	29	7	1.683.2500.50	12	1.683.2500.30
M 25 x 1,5	8-13	29	29	7	1.683.2500.51	12	1.683.2500.31
M 32 x 1,5	11-21	37	34	8	1.683.3200.50	12	1.683.3200.30
M 32 x 1,5	10-15	37	34	8	1.683.3200.51	12	1.683.3200.31
M 40 x 1,5	19-28	40,5	44	8	1.683.4000.50	15	1.683.4000.30
M 40 x 1,5	15-23	40,5	44	8	1.683.4000.51	15	1.683.4000.31
M 50 x 1,5	27-35	49,5	55	9	1.683.5000.50	15	1.683.5000.30
M 50 x 1,5	22-29	49,5	55	9	1.683.5000.51	15	1.683.5000.31
M 63 x 1,5	34-48	49	68	10	1.683.6300.50	15	1.683.6300.30
M 63 x 1,5	28-39	49	68	10	1.683.6300.51	15	1.683.6300.31



INDUSTRIAL CABLE GLANDS

Miscellaneous cable glands

Cable glands in this chapter have different designs to the modern clamping finger cable glands. Some types are perfect for high temperature applications or provide special options for clamping ranges.

You can find in this chapter:

Miscellaneous cable glands series

- // WADI-A-FKM without clamping cartridge, made of metal with FKM sealing for higher durability and for high temperature applications
- // DIN 46320 pressure screw gland made of polyamide or brass nickel plated
- // Z (DIN 46320) pressure screw gland with additional stain relief
- // SE (DIN 46320) pressure screw with EMC connection
- // ZSE (DIN 46320) pressure screw with additional stain relief and EMC connection

We provide variable clamping ranges and thread lengths.

For any further question please do not hesitate to contact us. We look forward to develop solutions together with you.

You profit from our vast knowledge in development, engineering and production technology.

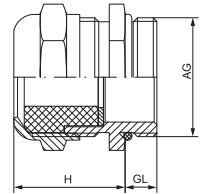


MISCELLANEOUS CABLE GLANDS

WADI-A-FKM Metr.



Material	Nickel plated brass
Seal ring	FKM
O-Ring	FKM
Protection	IP 68 (NEMA 6)
Operating Temperature	-25 °C – 200 °C (-13 °F – 392 °F)

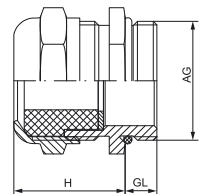


AG	\varnothing mm	GL mm	H mm	\varnothing mm	Number
M 12 x 1,5	4–6	5	18	14	1.106.1200.58
M 16 x 1,5	7–9	5	19	18	1.106.1600.58
M 20 x 1,5	10–13	6	21	22	1.106.2000.58
M 25 x 1,5	15–18	7	23	28	1.106.2500.58
M 32 x 1,5	20–24	8	26	35	1.106.3200.58
M 40 x 1,5	27–32	8	27	45	1.106.4000.58
M 50 x 1,5	35–40	10	28	55	1.106.5000.58
M 63 x 1,5	45–52	10	36	68	1.106.6300.58

WADI-A-FKM PG



Material	Nickel plated brass
Seal ring	FKM
O-Ring	FKM
Protection	IP 68 (NEMA 6)
Operating Temperature	-25 °C – 200 °C (-13 °F – 392 °F)



AG	\varnothing mm	GL mm	H mm	\varnothing mm	Number
PG 7	5–7	6	16	14	1.106.0700.80
PG 9	6–8	6	17	18	1.106.0900.80
PG 9	7–10	6	17	18	1.106.0901.80
PG 11	6–8	6	20	18	1.106.1100.80
PG 11	7–10	6	20	18	1.106.1101.80
PG 11	8–12	6	20	18	1.106.1102.80
PG 13,5	11–15	6	21	24	1.106.1300.80
PG 16	11–15	6	21	24	1.106.1600.80
PG 21	15–20,5	7,5	22,5	32	1.106.2100.80
PG 29	20–27	8	24	40	1.106.2900.80
PG 36	30–35	8	29	50	1.106.3600.80

AG	\varnothing mm	GL mm	H mm	\varnothing mm	Number
PG 42	40–45	10	31	60	1.106.4200.80
PG 48	42–49	11	33	64	1.106.4800.80

DIN 46320-A-FS with Seal ring No. 6

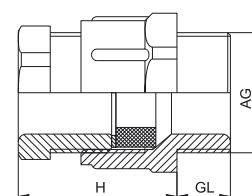
PG




// Metric thread on request
// Please see page 91 for suitable thread seal ring

Material	Polyamide
Seal ring	Buna-N
Protection	IP 54, with thread seal ring IP 65
Operating Temperature	-20 °C – 80 °C (-4 °F – 176 °F)
Colors	grey (RAL 7035)

RoHS



AG	\varnothing mm	GL mm	H mm	 mm	Number
PG 7	3,5–6	8	20	15 / 13	1.202.0700.11
PG 9	4,5–7	8	21	19 / 16	1.202.0900.11
PG 11	6–9	8	22	22 / 19	1.202.1100.11
PG 13,5	9–12	9	26	24 / 21	1.202.1300.11
PG 16	11–14	10	28	27 / 23	1.202.1600.11
PG 21	14–18	11	32	33 / 30	1.202.2100.11
PG 29	18–25	11	35	42 / 40	1.202.2900.11
PG 36	25–32	13	39	53 / 50	1.202.3600.11
PG 42	30–38	13	44	60 / 55	1.202.4200.11
PG 48	34–42	14	44	65 / 60	1.202.4800.11

DIN 46320-A-FS with multiperforated seal ring No. 7

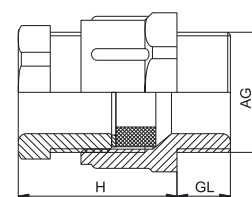
PG




// Metric thread on request
// Please see page 91 for suitable thread seal ring

Material	Polyamide
Seal ring	Buna-N (multiperforated)
Protection	IP 54, with thread seal ring IP 65
Operating Temperature	-20 °C – 80 °C (-4 °F – 176 °F)
Colors	grey (RAL 7035)

RoHS



AG	\varnothing mm	GL mm	H mm	 mm	Number
PG 9	4–10	8	21	19 / 16	1.202.0901.11
PG 11	6,5–12	8	22	22 / 19	1.202.1101.11
PG 13,5	6,5–13,5	9	26	24 / 21	1.202.1301.11
PG 16	6,5–16	10	28	27 / 23	1.202.1601.11
PG 21	9–20	11	32	33 / 30	1.202.2101.11
PG 29	17–28	11	35	42 / 40	1.202.2901.11
PG 36	23–34	13	39	53 / 50	1.202.3601.11
PG 42	29–40	13	44	60 / 55	1.202.4201.11
PG 48	35–46	14	44	65 / 60	1.202.4801.11

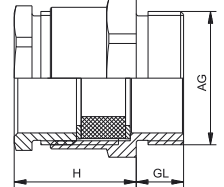
MISCELLANEOUS CABLE GLANDS

DIN 46320-C4-Ms with Seal ring No. 6

PG


- // Metric thread on request
- // Please see page 91 for suitable thread seal ring
- // This cable gland is available with additional strain relief (see page 71 / 72) and EMC attenuation (see page 73 / 74)

Material	Nickel plated brass
Seal ring	Buna-N
Protection	IP 54, with thread seal ring IP 65
Operating Temperature	-20 °C – 80 °C (-4 °F – 176 °F)

RoHS


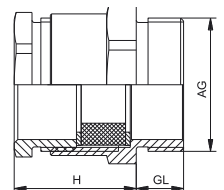
AG	Ø mm	GL mm	H mm	Ø mm	Number
PG 7	6–8	5	15	14 / 13	1.101.0703.01
PG 9	8–10	6	15	17 / 15	1.101.0903.01
PG 11	10–12	6	17	20 / 18	1.101.1103.01
PG 13,5	12–14	6,5	20	22 / 20	1.101.1303.01
PG 16	14–16	6,5	22	24 / 22	1.101.1603.01
PG 21	17–19	7	24	30 / 28	1.101.2103.01
PG 29	26–28	8	26	40 / 37	1.101.2903.01
PG 36	33–35	9	30	50 / 47	1.101.3603.01
PG 42	39–41	10	34	57 / 54	1.101.4203.01
PG 48	45–47	10	37	64 / 60	1.101.4803.01

DIN 46320-C4-Ms with multiperforated seal ring No. 7

PG


- // Metric thread on request
- // Please see page 91 for suitable thread seal ring
- // This cable gland is available with additional strain relief (see page 71 / 72) and EMC attenuation (see page 73 / 74)

Material	Nickel plated brass
Seal ring	Buna-N (multiperforated)
Protection	IP 54, with thread seal ring IP 65
Operating Temperature	-20 °C – 80 °C (-4 °F – 176 °F)

RoHS


AG	Ø mm	GL mm	H mm	Ø mm	Number
PG 9	4–10	6	15	17 / 15	1.101.0901.01
PG 11	6,5–12	6	17	20 / 18	1.101.1101.01
PG 13,5	6,5–13,5	6,5	20	22 / 20	1.101.1301.01
PG 16	6,5–16	6,5	22	24 / 22	1.101.1601.01
PG 21	9–20	7	24	30 / 28	1.101.2101.01
PG 29	17–28	8	26	40 / 37	1.101.2901.01
PG 36	23–34	9	30	50 / 47	1.101.3601.01
PG 42	29–40	10	34	57 / 54	1.101.4201.01
PG 48	35–46	10	37	64 / 60	1.101.4801.01

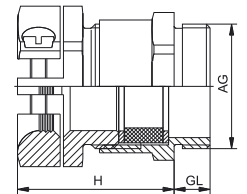
Z (DIN 46320-C4-Ms with Seal ring No. 6 with additional strain relief)

Metr.



// Please see page 91 for suitable thread seal ring

Material	Nickel plated brass
Seal ring	Buna-N
Protection	IP 54, with thread seal ring IP 65
Operating Temperature	-20 °C – 80 °C (-4 °F – 176 °F)



AG	\varnothing mm	GL mm	H mm	\varnothing mm	Number
M 12 x 1,5	6–8	5	22	14/16	1.105.1200.51
M 16 x 1,5	8–10	5	25	18/19	1.105.1600.51
M 20 x 1,5	10–12	6	26	22/22	1.105.2000.51
M 20 x 1,5	12–14	6	27,5	22/24	1.105.2013.51
M 20 x 1,5	13–15	6	28,5	24/26	1.105.2016.51
M 25 x 1,5	17–19	6	33	30/33	1.105.2500.51
M 32 x 1,5	26–27	6	36	39/42	1.105.3200.51
M 40 x 1,5	33–35	7	41	50/52	1.105.4000.51
M 50 x 1,5	39–41	8	45	57/59	1.105.5000.51
M 63 x 1,5	43–45	9	48	66/64	1.105.6300.51

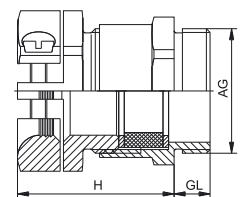
Z (DIN 46320-C4-Ms with multiperforated seal ring No. 7 with additional strain relief)

Metr.



// Please see page 91 for suitable thread seal ring

Material	Nickel plated brass
Seal ring	Buna-N (multiperforated)
Protection	IP 54, with thread seal ring IP 65
Operating Temperature	-20 °C – 80 °C (-4 °F – 176 °F)



AG	\varnothing mm	GL mm	H mm	\varnothing mm	Number
M 16 x 1,5	6,5–10	5	25	18/19	1.105.1600.52
M 20 x 1,5	7,5–12	6	26	22/22	1.105.2000.52
M 20 x 1,5	8,5–13,5	6	27,5	22/24	1.105.2013.52
M 20 x 1,5	10,5–15	6	28,5	24/26	1.105.2016.52
M 25 x 1,5	13–20	6	33	30/33	1.105.2500.52
M 32 x 1,5	19–28	6	36	39/42	1.105.3200.52
M 40 x 1,5	24–34	7	41	50/52	1.105.4000.52
M 50 x 1,5	34–40	8	45	57/59	1.105.5000.52
M 63 x 1,5	39–46	9	48	66/64	1.105.6300.52

MISCELLANEOUS CABLE GLANDS

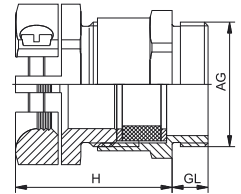
Z (DIN 46320-C4-Ms with Seal ring No. 6 with additional strain relief) PG



// Please see page 91 for suitable thread seal ring
 // Please see page 74 for the EMC version of this gland

Material	Nickel plated brass
Seal ring	Buna-N
Protection	IP 54, with thread seal ring IP 65
Operating Temperature	-20 °C – 80 °C (-4 °F – 176 °F)

RoHS



AG	$\sqrt{\text{Ø}}$ mm	GL mm	H mm	$\sqrt{\text{Ø}}$ mm	Number NBR -20 °C – 80 °C
PG 7	6–8	5	22	14/16	1.105.0703.01
PG 9	8–10	6	25	17/19	1.105.0903.01
PG 11	10–12	6	26	20/22	1.105.1103.01
PG 13,5	12–14	6,5	27,5	22/24	1.105.1303.01
PG 16	14–16	6,5	28,5	24/26	1.105.1603.01
PG 21	17–19	7	33	30/33	1.105.2103.01
PG 29	26–28	8	36	40/42	1.105.2903.01
PG 36	33–35	9	41	50/52	1.105.3603.01
PG 42	39–41	10	45	57/59	1.105.4203.01
PG 48	43–45	10	48	64/64	1.105.4803.01

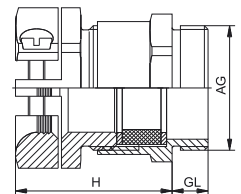
Z (DIN 46320-C4-Ms with multiperforated seal ring No. 7 with additional strain relief) PG



// Please see page 91 for suitable thread seal ring
 // Please see page 74 for the EMC version of this gland

Material	Nickel plated brass
Seal ring	Buna-N (multiperforated)
Protection	IP 54, with thread seal ring IP 65
Operating Temperature	-20 °C – 80 °C (-4 °F – 176 °F)

RoHS



AG	$\sqrt{\text{Ø}}$ mm	GL mm	H mm	$\sqrt{\text{Ø}}$ mm	Number
PG 9	6,5–10	6	25	17/19	1.105.0901.01
PG 11	7,5–12	6	26	20/22	1.105.1101.01
PG 13,5	8,5–13,5	6,5	27,5	22/24	1.105.1301.01
PG 16	10,5–16	6,5	28,5	24/26	1.105.1601.01
PG 21	13–20	7	33	30/33	1.105.2101.01
PG 29	19–28	8	36	40/42	1.105.2901.01
PG 36	24–34	9	41	50/52	1.105.3601.01
PG 42	34–40	10	45	57/59	1.105.4201.01
PG 48	39–46	10	48	64/64	1.105.4801.01

SE (DIN 46320-C4 with EMC attenuation with multiperforated seal ring No. 7)

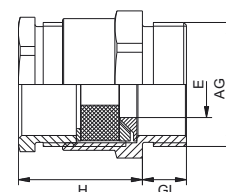
PG




Material	Nickel plated brass
Seal ring	Buna-N
Protection	IP 54, with thread seal ring IP 65
Operating Temperature	-20 °C – 80 °C (-4 °F – 176 °F)

RoHS

// Please see page 91 for suitable thread seal ring



AG	Ø mm	GL mm	H mm	 mm	E mm	Number
PG 9	4–10	7	17	17/15	6	1.680.0906.01
PG 11	6,5–12	7	20	20/18	8	1.680.1108.01
PG 13,5	6,5–13,5	8	21	22/20	10	1.680.1310.01
PG 13,5	6,5–13,5	8	21	22/20	12	1.680.1312.01
PG 16	6,5–16	8	24	24/22	12	1.680.1612.01
PG 16	6,5–16	8	24	24/22	14	1.680.1614.01
PG 21	9–20	10	27	30/28	15	1.680.2115.01
PG 21	9–20	10	27	30/28	18	1.680.2118.01
PG 29	17–28	10	30	40/37	20	1.680.2920.01
PG 29	17–28	10	30	40/37	24	1.680.2924.01

MISCELLANEOUS CABLE GLANDS

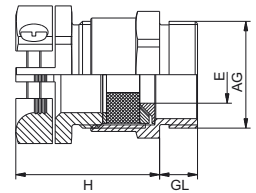
ZSE (DIN 46320-C4 with EMC attenuation and multiperforated seal ring No. 7 with additional strain relief) PG



Material	Nickel plated brass
Seal ring	Buna-N
Protection	IP 54, with thread seal ring IP 65
Operating Temperature	-20 °C – 80 °C (-4 °F – 176 °F)



// Please see page 91 for suitable thread seal ring



AG	Ø mm	GL mm	H mm	 mm	E mm	Number
PG 9	6,5–10	7	27	17 / 19	6	1.681.0906.01
PG 11	7,5–12	7	29	20 / 22	7	1.681.1107.01
PG 11	7,5–12	7	29	20 / 22	8	1.681.1108.01
PG 13,5	8,5–13,5	8	30	22 / 24	10	1.681.1310.01
PG 13,5	8,5–13,5	8	30	22 / 24	12	1.681.1312.01
PG 16	10,5–16	8	31	24 / 26	12	1.681.1612.01
PG 16	10,5–16	8	31	24 / 26	14	1.681.1614.01
PG 21	13–20	10	36	30 / 33	15	1.681.2115.01
PG 21	13–20	10	36	30 / 33	18	1.681.2118.01
PG 29	19–28	10	40	40 / 42	20	1.681.2920.01
PG 29	19–28	10	40	40 / 42	24	1.681.2924.01

INDUSTRIAL CABLE GLANDS

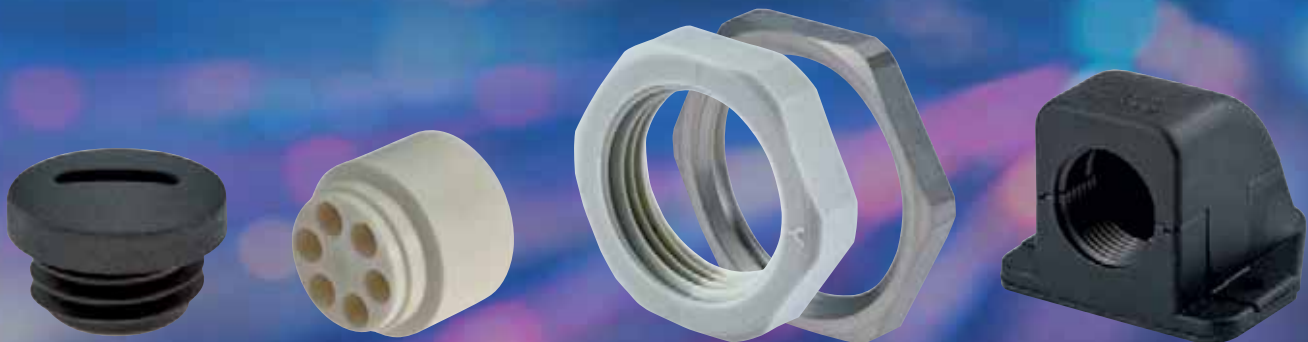
Accessories

You can find in this chapter:

Accessories for all series of our industrial cable glands:

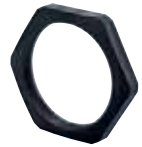
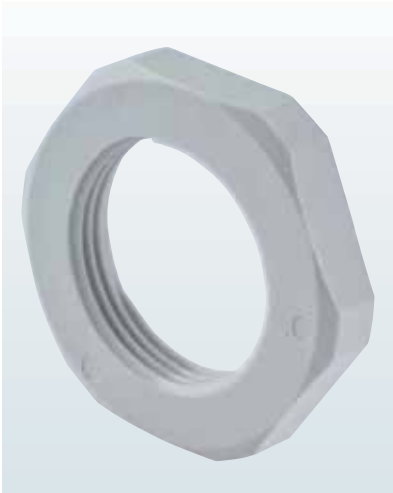
- // Accessories made of plastic from page 76
- // Accessories made of nickel plated brass from page 92
- // Accessories made of stainless steel from page 101

For any further question please do not hesitate to contact us. We look forward to develop solutions together with you. You profit from our vast knowledge in development, engineering and production technology.



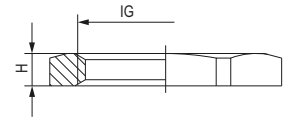
Locknut GM-FS

Metr., PG, NPT



Material	Polyamide
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)
Colors	grey (RAL 7035), black (RAL 9005)

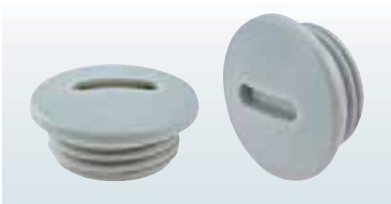
// Other colors on request



IG	H mm	 mm	Number PA grey	Number PA black
M 12 x 1,5	5	17	1.262.1200.50	1.262.1201.50
M 16 x 1,5	5	22	1.262.1600.50	1.262.1601.50
M 20 x 1,5	6	27	1.262.2000.50	1.262.2001.50
M 25 x 1,5	6,5	32	1.262.2500.50	1.262.2501.50
M 32 x 1,5	7	41	1.262.3200.50	1.262.3201.50
M 40 x 1,5	7	50	1.262.4000.50	1.262.4001.50
M 50 x 1,5	8	60	1.262.5000.50	1.262.5001.50
M 63 x 1,5	8	75	1.262.6300.50	1.262.6301.50
PG 7	5	19	1.262.0700.11	1.262.0701.11
PG 9	5	22	1.262.0900.11	1.262.0901.11
PG 11	5	24	1.262.1100.11	1.262.1101.11
PG 13,5	6	27	1.262.1300.11	1.262.1301.11
PG 16	6	30	1.262.1600.11	1.262.1601.11
PG 21	7	36	1.262.2100.11	1.262.2101.11
PG 29	7	46	1.262.2900.11	1.262.2901.11
PG 36	8	60	1.262.3600.11	1.262.3601.11
PG 42	8	65	1.262.4200.11	1.262.4201.11
PG 48	8	70	1.262.4800.11	1.262.4801.11
NPT 3/8"	7	24	1.262.3800.70	1.262.3801.70
NPT 1/2"	6	27	1.262.1200.70	1.262.1201.70
NPT 3/4"	7	32	1.262.3400.70	1.262.3401.70
NPT 1"	7	40	1.262.1000.70	1.262.1001.70

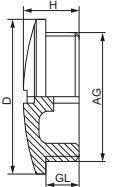
Plug V-N-FS

Metr.



// Other colors on request

Material	Polyamide
Protection	IP 54
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)
Colors	grey (RAL 7035), black (RAL 9005)



AG	GL mm	H mm	D mm	Number PA grey	Number PA black
M 12 x 1,5	6	10	15	1.251.1200.50	1.251.1201.50
M 16 x 1,5	7	11,5	20	1.251.1600.50	1.251.1601.50
M 20 x 1,5	6	9,5	25	1.251.2000.50	1.251.2001.50
M 25 x 1,5	11	15,5	30	1.251.2500.50	1.251.2501.50
M 32 x 1,5	11	16	38	1.251.3200.50	1.251.3201.50
M 40 x 1,5	13	18	46	1.251.4000.50	1.251.4001.50
M 50 x 1,5	13	18,5	56	1.251.5000.50	1.251.5001.50
M 63 x 1,5	15	19	69	1.251.6300.50	1.251.6301.50

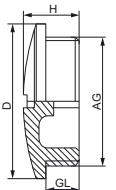
Plug V-N-FS

PG



// Other colors on request

Material	Polyamide
Protection	IP 54
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)
Colors	grey (RAL 7035), black (RAL 9005)



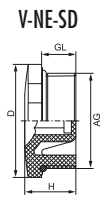
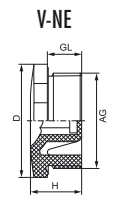
AG	GL mm	H mm	D mm	Number PA grey	Number PA black
PG 7	6	8	15	1.251.0700.11	1.251.0701.11
PG 9	6	9	19	1.251.0900.11	1.251.0901.11
PG 11	6	9	22	1.251.1100.11	1.251.1101.11
PG 13,5	6	9,5	25	1.251.1300.11	1.251.1301.11
PG 16	6	9,5	27	1.251.1600.11	1.251.1601.11
PG 21	8	11	33	1.251.2100.11	1.251.2101.11
PG 29	8	12	44	1.251.2900.11	1.251.2901.11
PG 36	10	15	55	1.251.3600.11	1.251.3601.11
PG 42	10	16	62	1.251.4200.11	1.251.4201.11
PG 48	12	16	69	1.251.4800.11	1.251.4801.11

Plug V-NE / V-NE-SD Metr.



// Please find suitable O-Ring on page 90

Material	Polyamid, fiber reinforced
Operating Temperature	-20 °C – 80 °C (-4 °F – 176 °F)
O-Ring	Buna-N
Colors	black (RAL 9005)
Protection	IP 54 (V-NE) IP 68 – 10 bar / IP 69K (V-NE-SD)



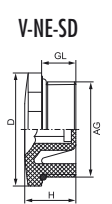
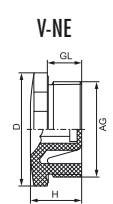
AG	GL mm	H mm	D mm			Number V-NE without O-Ring	Number V-NE-SD
M 12 x 1,5	8,5	13	16,5	15	6	1.255.1201.50	1.256.1201.50
M 16 x 1,5	8,5	13	20,5	19	8	1.255.1601.50	1.256.1601.50
M 20 x 1,5	9	14,5	25,5	24	8	1.255.2001.50	1.256.2001.50
M 25 x 1,5	10,5	16	30,5	28	8	1.255.2501.50	1.256.2501.50
M 32 x 1,5	11,5	17,5	38	36	8	1.255.3201.50	1.256.3201.50
M 40 x 1,5	11,5	18	48	46	8	1.255.4001.50	1.256.4001.50
M 50 x 1,5	13,5	20	60	55	8	1.255.5001.50	1.256.5001.50
M 63 x 1,5	14,5	21	75	70	8	1.255.6301.50	1.256.6301.50

Plug V-NE / V-NE-SD PG



// Please find suitable O-Ring on page 90

Material	Polyamid, fiber reinforced
Operating Temperature	-20 °C – 80 °C (-4 °F – 176 °F)
O-Ring	Buna-N
Colors	black (RAL 9005)
Protection	IP 54 (V-NE) IP 68 – 10 bar / IP 69K (V-NE-SD)



AG	GL mm	H mm	D mm			Number V-NE without O-Ring	Number V-NE-SD
PG 7	8,5	13	16,5	15	6	1.255.0701.11	1.256.0701.11
PG 9	8,5	13	20,5	19	8	1.255.0901.11	1.256.0901.11
PG 11	9	14,5	25,5	24	8	1.255.1101.11	1.256.1101.11
PG 13,5	9	14,5	25,5	24	8	1.255.1301.11	1.256.1301.11
PG 16	10,5	16	30,5	28	8	1.255.1601.11	1.256.1601.11
PG 21	11,5	17,5	38	36	8	1.255.2101.11	1.256.2101.11
PG 29	11,5	18	48	46	8	1.255.2901.11	1.256.2901.11
PG 36	13,5	20	60	55	8	1.255.3601.11	1.256.3601.11
PG 42	13,5	20	65	60	8	1.255.4201.11	1.256.4201.11
PG 48	14,5	21	75	70	8	1.255.4801.11	1.256.4801.11

DS

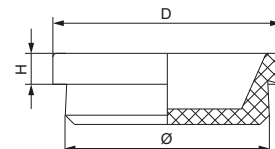
Metr.



// For through holes or threaded holes

Material	Elastomer
Protection	IP 54
Operating Temperature	-20 °C – 80 °C (-4 °F – 176 °F)

RoHS



Ø mm	D mm	H mm	Number
12	17	5	1.250.1201.50
16	20	5	1.250.1601.50
20	25	5	1.250.2001.50
25	30	5	1.250.2501.50
32	37	5	1.250.3201.50
40	45	5	1.250.4001.50
50	56	5	1.250.5001.50
63	70	5	1.250.6301.50

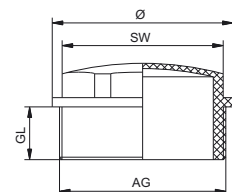
WN

Metr.



Material	Polyethylene
Protection	IP 54
Operating Temperature	-20 °C – 80 °C (-4 °F – 176 °F)

M
RoHS



AG	GL mm	Ø mm	⌀ mm	Number
M 16 x 1,5	9	19,8	15	1.282.1600.50
M 20 x 1,5	12	24	19	1.282.2000.50
M 25 x 1,5	12	29,5	24	1.282.2500.50
M 32 x 1,5	14	37,5	30	1.282.3200.50
M 40 x 1,5	14	45,8	37	1.282.4000.50
M 50 x 1,5	18	55,8	46	1.282.5000.50
M 63 x 1,5	20	68,8	56	1.282.6300.50

Plug HSK-V

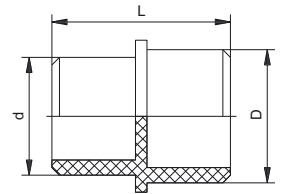
Metr., PG, NPT



Material	Polyamide
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)
Colors	black (RAL 9005)



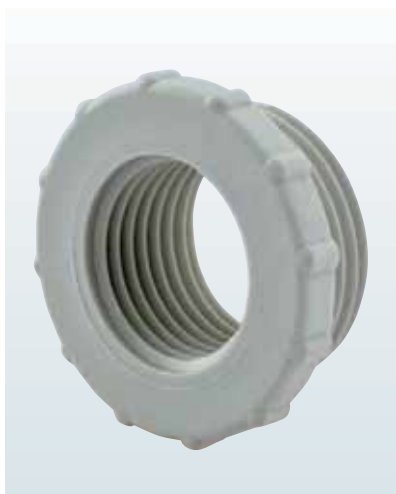
// Fasteners for cable glands (HSK and METRICA series)



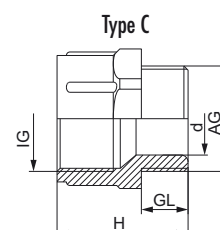
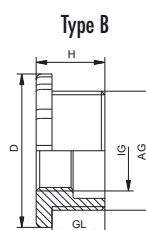
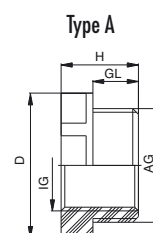
Fits the following sizes		D mm	d mm	L mm	Number
M 12 x 1,5	PG 7	6	4,5	15	1.280.0007.00
M 16 x 1,5	PG 9	7,5	5,5	17	1.280.0009.00
M 16 x 1,5/11	PG 11	9,5	6,5	19	1.280.0011.00
M 20 x 1,5	PG 13,5	11,5	8,5	19	1.280.0013.00
M 20 x 1,5/16	PG 16	13,5	11,5	19,5	1.280.0016.00
M 25 x 1,5	PG 21	17,5	15,5	23,5	1.280.0021.00
M 32 x 1,5	PG 29	24	19	26	1.280.0029.00
M 40 x 1,5	PG 36	31	25	28	1.280.0036.00
M 50 x 1,5	PG 42	37	30	28	1.280.0042.00
M 63 x 1,5	PG 48	43	34	28	1.280.0048.00

Adapter R-FS

Metr., PG



Material	Styrene Butadiene / Polyamide
Operating Temperature	-20 °C – 70 °C (-4 °F – 156 °F) (Styrene Butadiene) -40 °C – 80 °C (-40 °F – 176 °F) (Polyamide)
Colors	grey (RAL 7035)



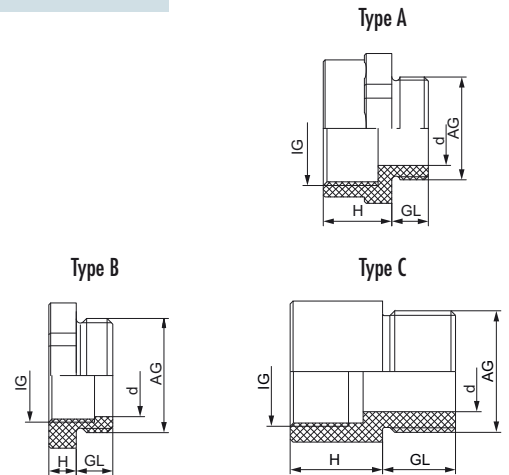
AG	IG	Type	GL mm	H mm	D mm	d mm		Number SB	Number PA
M 16 x 1,5	M 12 x 1,5	A	9	16	24		22		1.272.1612.50
M 20 x 1,5	M 16 x 1,5	A	9	16	27		24		1.272.2016.50
M 25 x 1,5	M 20 x 1,5	A	10	17	32		29		1.272.2520.50
M 32 x 1,5	M 25 x 1,5	A	12	19	40		36		1.272.3225.50
M 40 x 1,5	M 32 x 1,5	A	12	19	51		46		1.272.4032.50
M 50 x 1,5	M 40 x 1,5	A	14	21	61		55		1.272.5040.50
M 63 x 1,5	M 50 x 1,5	A	15	22	75		65		1.272.6350.50
PG 13,5	PG 9	B	8	12	27			1.271.1309.10	1.272.1309.11
PG 16	PG 9	B	10	13	29			1.271.1609.10	1.272.1609.11
PG 16	PG 11	B	10	13	29			1.271.1611.10	1.272.1611.11
PG 21	PG 13,5	B	11	13,5	36			1.271.2113.10	1.272.2113.11
PG 21	PG 16	B	11	13,5	36			1.271.2116.10	1.272.2116.11
PG 29	PG 21	B	11	13,5	46			1.271.2921.10	1.272.2921.11
PG 36	PG 29	B	11	15	58			1.271.3629.10	1.272.3629.11
Reducing intermediate connector									
PG 9	PG 7	C	8	14		19	15	1.235.0907.10	1.236.0907.11
PG 11	PG 9	C	8	18		22,5	19	1.235.1109.10	1.236.1109.11
PG 13,5	PG 11	C	9	21		25,5	22	1.235.1311.10	1.236.1311.11
PG 16	PG 13,5	C	10	25		28,5	24	1.235.1613.10	1.236.1613.11

Adapter R-M-PA

Metr., PG



Material	Polyamide
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)
Colors	black (RAL 9005)



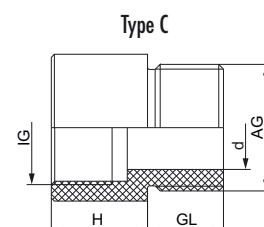
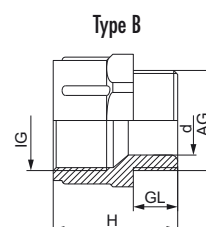
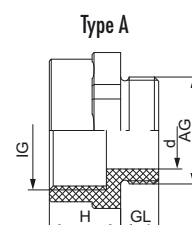
AG	IG	Type	GL mm	H mm	d mm	 mm	Number
M 16 x 1,5	M 12 x 1,5	B	8	6	10	20	1.273.1612.50
M 20 x 1,5	M 16 x 1,5	B	8	6	13,5	25	1.273.2016.50
M 25 x 1,5	M 20 x 1,5	B	8	6	18	29	1.273.2520.50
M 32 x 1,5	M 25 x 1,5	B	10	6	23	36	1.273.3225.50
M 40 x 1,5	M 32 x 1,5	C	15	5	30		1.273.4032.50
M 50 x 1,5	M 40 x 1,5	C	15	5	38		1.273.5040.50
M 63 x 1,5	M 50 x 1,5	C	15	5	48		1.273.6350.50
M 25 x 1,5	PG 13,5	B	8	6	18	29	1.273.2513.50
M 25 x 1,5	PG 16	A	8	14	18	29	1.273.2516.50
M 32 x 1,5	PG 21	A	10	15	25	36	1.273.3221.50
M 40 x 1,5	PG 29	A	10	15	33	45	1.273.4029.50
M 50 x 1,5	PG 36	A	12	17	43	55	1.273.5036.50
M 63 x 1,5	PG 42	C	15	5	52		1.273.6342.50
PG 9	M 12 x 1,5	C	15	19	8,5		1.273.0912.11
PG 11	M 16 x 1,5	C	15	19	11,5		1.273.1116.11
PG 13,5	M 16 x 1,5	B	8	6	14	25	1.273.1316.11
PG 16	M 20 x 1,5	A	8	13	16	27	1.273.1620.11
PG 21	M 25 x 1,5	C	15	19	20,5		1.273.2125.11
PG 29	M 32 x 1,5	C	15	19	28		1.273.2932.11
PG 36	M 40 x 1,5	C	15	5	38		1.273.3640.11
PG 42	M 40 x 1,5	C	15	5	38		1.273.4240.11
PG 48	M 50 x 1,5	C	15	5	38		1.273.4850.11

Adapter E-M-PA, K-FS

Metr., PG



Material	Polyamide (Type A / Type B), Polypropylene (Type C)
Operating Temperature	-20 °C – 80 °C (-4 °F – 176 °F)
Colors	K-FS grey (RAL 7035), E-M-PA black (RAL 9005)



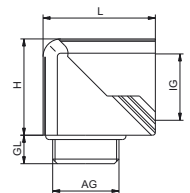
AG	IG	Type	GL mm	H mm	d mm	 mm	Number
M 12 x 1,5	M 16 x 1,5	A	8	12	6,5	21	1.239.1216.50
M 16 x 1,5	M 20 x 1,5	A	8	13	9	25	1.239.1620.50
M 20 x 1,5	M 25 x 1,5	A	8	15	14	30	1.239.2025.50
M 25 x 1,5	M 32 x 1,5	C	15	15	16,5		1.239.2532.50
M 32 x 1,5	M 40 x 1,5	C	15	19,5	23		1.239.3240.50
M 40 x 1,5	M 50 x 1,5	C	15	19,5	30		1.239.4050.50
M 50 x 1,5	M 63 x 1,5	C	15	20	39		1.239.5063.50
M 12 x 1,5	PG 7	A	8	12	6,5	17	1.239.1207.50
M 16 x 1,5	PG 9	C	1	19	8,5		1.239.1609.50
M 20 x 1,5	PG 13,5	A	8	13	14	25	1.239.2013.50
M 63 x 1,5	PG 48	C	15	20	51		1.239.6348.50
PG 7	M 12 x 1,5	C	15	19	6		1.239.0712.11
PG 9	M 16 x 1,5	A	8	12	9	21	1.239.0916.11
PG 11	M 20 x 1,5	C	15	19	11,5		1.239.1120.11
PG 13,5	M 20 x 1,5	A	8	13	14	25	1.239.1320.11
PG 16	M 25 x 1,5	A	8	15	16	30	1.239.1625.11
PG 21	M 32 x 1,5	A	8	15	21	37	1.239.2132.11
PG 29	M 40 x 1,5	A	10	17	30	45	1.239.2940.11
PG 36	M 50 x 1,5	C	15	19,5	37		1.239.3650.11
PG 42	M 50 x 1,5	C	15	19,5	43		1.239.4250.11
PG 48	M 63 x 1,5	C	15	20	48		1.239.4863.11
PG 11	PG 13,5	B	8	15	12,5	24	1.233.1113.11
PG 13,5	PG 16	B	9	16	15	27	1.233.1316.11
PG 16	PG 21	B	10	19	16	32	1.233.1621.11
PG 21	PG 29	B	11	21	22,5	42	1.233.2129.11

90° Snap Elbow

Metr., PG, NPT



Material	Polyamide
O-Ring	Buna-N
Protection	IP 68 (NEMA 6)
Operating Temperature	-20 °C – 80 °C (-4 °F – 176 °F)
Colors	grey (RAL 7035), black (RAL 9005)



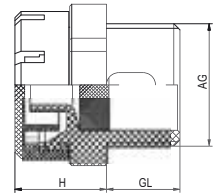
AG	IG	GL mm	H mm	L mm	$\overset{R}{\curvearrowright}$ mm		Number grey	Number black
M 16 x 1,5	M 16 x 1,5	8	23	28,5	5	19	1.316.1600.50	1.316.1601.50
M 20 x 1,5	M 20 x 1,5	9	30,5	35	7	24	1.316.2000.50	1.316.2001.50
M 25 x 1,5	M 25 x 1,5	11	40	49	10	33	1.316.2500.50	1.316.2501.50
PG 9	M 16 x 1,5	8	23	28,5	5	19	1.316.0900.11	1.316.0901.11
PG 13,5	M 20 x 1,5	9	30,5	35	7	24	1.316.1300.11	1.316.1301.11
PG 21	M 25 x 1,5	11	40	49	10	33	1.316.2100.11	1.316.2101.11
M 16 x 1,5	PG 9	8	23	28,5	5	19	1.315.1600.50	1.315.1601.50
M 20 x 1,5	PG 13,5	9	30,5	35	7	24	1.315.2000.50	1.315.2001.50
M 25 x 1,5	PG 21	11	40	49	10	33	1.315.2500.50	1.315.2501.50
M 32 x 1,5	PG 29	11	51,5	60	14	42	1.315.3200.50	1.315.3201.50
PG 9	PG 9	8	23	28,5	5	19	1.315.0900.11	1.315.0901.11
PG 11	PG 11	8	27	31,5	6	22	1.315.1100.11	1.315.1101.11
PG 13,5	PG 13,5	9	30,5	35	7	24	1.315.1300.11	1.315.1301.11
PG 16	PG 16	10	32,5	37,5	8	27	1.315.1600.11	1.315.1601.11
PG 21	PG 21	11	40	49	10	33	1.315.2100.11	1.315.2101.11
PG 29	PG 29	11	51,5	60	14	42	1.315.2900.11	1.315.2901.11
NPT 3/8"	PG 9	15	23	28,5	5	19	1.315.3800.70	1.315.3801.70
NPT 1/2"	PG 13,5	13	30,5	35	7	24	1.315.1200.70	1.315.1201.70
NPT 3/4"	PG 21	13	40	49	10	33	1.315.3400.70	1.315.3401.70
NPT 1"	PG 29	19	51,5	60	14	42	1.315.1000.70	1.315.1001.70

KS

Metr.



Material	Polyamide
Protection	IP 54
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)
Colors	grey (RAL 7035), black (RAL 9005)



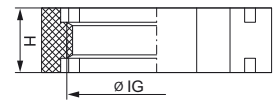
AG	GL mm	H mm	mm	Number grey	Number black
M 25 x 1,5	15	21,5	30	1.213.2500.50	1.213.2501.50

GM-KS

Metr.



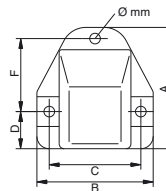
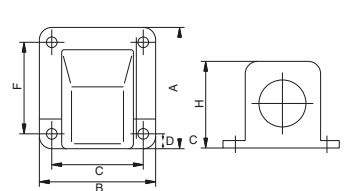
Material	Polyamide
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)
Colors	grey (RAL 7035), black (RAL 9005)



AG	H mm	mm	Number grey	Number black
M 25 x 1,5	9	30	1.263.2500.50	1.263.2501.50



Material	Polyamide
Seal	Buna-N
Protection	IP 54
Operating Temperature	-40 °C – 110 °C (-40 °F – 230 °F)
Colors	grey (RAL 7011), black (RAL 9005)


Flange 1

Flange 2


Size	Flange	Ø mm	A mm	B mm	C mm	D mm	F mm	H mm	Number grey	Number black
M 16 x 1,5	1	4,3	49	47	37	15,5	29	35	1.312.1600.50	1.312.1601.50
M 20 x 1,5	1	4,5	49	47	37	15,5	29	35	1.312.2000.50	1.312.2001.50
M 25 x 1,5	1	6,0	69	65	51,5	21,5	41,5	44	1.312.2500.50	1.312.2501.50
M 32 x 1,5	2	6,5	90	78	64,5	9,5	64,5	55	1.312.3200.50	1.312.3201.50
M 40 x 1,5	2	6,5	99	94	79,5	10,5	79,5	66	1.312.4000.50	1.312.4001.50
M 50 x 1,5	2	6,5	116	101	87,5	12,5	87,5	76	1.312.5000.50	1.312.5001.50
PG 11	1	4,3	49	47	37	15,5	29	35	1.312.1100.11	1.312.1101.11
PG 16	1	4,3	49	47	37	15,5	29	35	1.312.1600.11	1.312.1601.11
PG 21	1	6,0	69	65	51,5	21,5	41,5	44	1.312.2100.11	1.312.2101.11
PG 29	2	6,5	90	78	64,5	9,5	64,5	55	1.312.2900.11	1.312.2901.11
PG 36	2	6,5	99	94	79,5	10,5	79,5	66	1.312.3600.11	1.312.3601.11
PG 48	2	6,5	116	101	87,5	12,5	87,5	76	1.312.4800.11	1.312.4801.11

FW-T

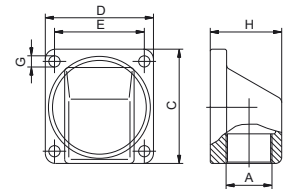
PG



Material	Polyamide
O-Ring	Buna-N
Protection	IP 65
Operating Temperature	-20 °C – 95 °C (- 4 °F – 203 °F)
Colors	grey (RAL 7011)

RoHS

// Metric threads with O-Ring thread seal available



A	C mm	D mm	E mm	G mm	H mm	Number
PG 9	50	45	37	4,3	29	1.306.0900.14
PG 11	50	45	37	4,3	29	1.306.1100.14
PG 13,5	56	53	44	5,5	35	1.306.1300.14
PG 16	56	53	44	5,5	35	1.306.1600.14
PG 21	68	68	55,5	5,5	43	1.306.2100.14
PG 29	74	70	60	5,5	52	1.306.2900.14
PG 36	93	88	72	6,5	68	1.306.3600.14



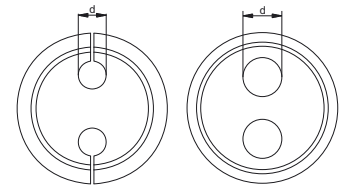
Material	Elastomer
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)

RoHS

- // Installation instructions see page 156
- // The shown inserts are samples, more inserts upon request

! The inserts are exclusively capable for the glands of the HSK series

Slit version



Fits the following sizes			Number of holes x d	Number	Number of holes x d	Number	Number without holes
M 12 x 1,5	PG 7 / KR PG 9		1,5*	1.089.0712.19			1.089.0799.19
M 16 x 1,5	PG 9 / KE PG 7 / KR PG 11	NPT 3/8"	4 x 1,4	1.089.0900.19	2 x 3	1.089.0901.19	1.089.0999.19
			5 x 1,6	1.089.0902.19	10 x 1,4	1.089.0904.19	
			4 x 2,3	1.089.0908.19	1 x 2,2*	1.089.0916.19	
M 16 x 1,5/11	PG 11 / KE PG 9 / KR PG 13,5		2 x 3	1.089.1100.19	3 x 3	1.089.1101.19	1.089.1199.19
			2 x 4	1.089.1102.19	3 x 1,5	1.089.1103.19	
M 20 x 1,5	PG 13,5 / KE PG 11 / KR PG 16	NPT 1/2"	3 x 2	1.089.1300.19	6 x 3	1.089.1301.19	1.089.1399.19
			3 x 4	1.089.1302.19	2 x 5	1.089.1303.19	
			3 x 3	1.089.1304.19	1 x 5*	1.089.1312.19	
M 20 x 1,5/16	PG 16 / KE PG 13,5 / KR PG 21	NPT 1/2" (16)	4 x 4	1.089.1602.19	5 x 4	1.089.1603.19	1.089.1699.19
			6 x 4	1.089.1604.19	2 x 6	1.089.1605.19	
			6 x 3	1.089.1607.19	3 x 4	1.089.1601.19	
			4 x 5	1.089.1611.19	2 x 4,5	1.089.1614.19	
M 25 x 1,5	PG 21 / KE PG 16	NPT 3/4"	4 x 6	1.089.2100.19	3 x 7	1.089.2101.19	1.089.2199.19
			2 x 8	1.089.2102.19	4 x 5	1.089.2103.19	
			3 x 5,2	1.089.2106.19	1 x 5,8*	1.089.2113.19	
M 32 x 1,5	PG 29	NPT 1" / NPT 1 1/4"	6 x 6,5	1.089.2900.19	4 x 9	1.089.2901.19	1.089.2999.19
			2 x 6	1.089.2905.19			
M 40 x 1,5	PG 36	NPT 1 1/2"	5 x 9	1.089.3600.19	7 x 9	1.089.3601.19	1.089.3699.19
			6 x 8	1.089.3602.19	2 x 15	1.089.3603.19	
M 50 x 1,5	PG 42						1.089.4299.19
M 63 x 1,5	PG 48		8 x 10	1.089.4800.19	6 x 12	1.089.4801.19	1.089.4899.19

* Slit version to accommodate terminated cable

HSK-FLAKA

Metr., PG, NPT

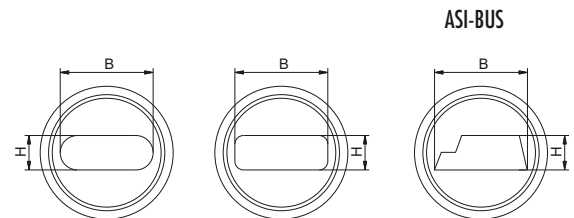


Material	Elastomer
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)

RoHS

- // Installation instructions see page 156
- // The shown inserts are samples, more inserts upon request

! The inserts are exclusively capable
• for the glands of the HSK series



Fits the following sizes			w x h mm	Number	w x h mm	Number
M 20 x 1,5	PG 13,5	NPT 1/2"	(ASI-BUS) 10,4 x 4,2	1.091.1300.19		
M 20 x 1,5/16	PG 16 / KE PG 13,5 / KR PG 21	NPT 1/2" (16)	14 x 6	1.091.1600.19	11,5 x 5	1.091.1601.19
M 20 x 1,5/16	PG 16 / KE PG 13,5 / KR PG 21	NPT 1/2" (16)	12 x 7	1.091.1602.19		
M 25 x 1,5	PG 21 / KE PG 16	NPT 3/4"	14 x 6	1.091.2100.19	14 x 7	1.091.2101.19
M 32 x 1,5	PG 29	NPT 1" / 1 1/4"	22 x 8	1.091.2900.19		
M 40 x 1,5	PG 36	NPT 1 1/2"	28,5 x 10	1.091.3600.19	29 x 5,5	1.091.3601.19
M 50 x 1,5	PG 42		33,5 x 11,5	1.091.4200.19		
M 63 x 1,5	PG 48		38 x 12	1.091.4800.19		

O-Ring

Metr., PG, NPT

RoHS



O-Ring Buna-N

Material	Buna-N
Operating Temperature	-30 °C – 120 °C (-22 °F – 248 °F)

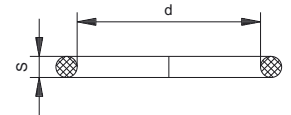
O-Ring FKM

Material	FKM
Operating Temperature	-40 °C – 200 °C (-40 °F – 392 °F)

O-Ring VMQ

Material	VMQ (Silicone)
Operating Temperature	-60 °C – 250 °C (-76 °F – 482 °F)

// O-Ring for HSK-K



Fits the following sizes	d mm	S mm	Number Buna-N	Number FKM	Number VMQ
M 12 x 1,5	10	1,5	1.321.1200.57	1.321.1200.58	1.321.1200.59
M 16 x 1,5	12	1,5	1.321.1600.57	1.321.1600.58	1.321.1600.59
M 20 x 1,5	17	1,8	1.321.2000.57	1.321.2000.58	1.321.2000.59
M 25 x 1,5	22	2	1.321.2500.57	1.321.2500.58	1.321.2500.59
M 32 x 1,5	29	2	1.321.3200.57	1.321.3200.58	1.321.3200.59
M 40 x 1,5	35	2	1.321.4000.57	1.321.4000.58	1.321.4000.59
M 50 x 1,5	43	2	1.321.5000.57	1.321.5000.58	1.321.5000.59
M 63 x 1,5	55	2	1.321.6300.57	1.321.6300.58	1.321.6300.59
PG 7	10	1,5	1.321.0700.17	1.321.0700.21	1.321.0700.22
PG 9	12	1,5	1.321.0900.17	1.321.0900.21	1.321.0900.22
PG 11	16	1,5	1.321.1100.17	1.321.1100.21	1.321.1100.22
PG 13,5	17	1,8	1.321.1300.17	1.321.1300.21	1.321.1300.22
PG 16	18	1,5	1.321.1600.17	1.321.1600.21	1.321.1600.22
PG 21	26	2	1.321.2100.17	1.321.2100.21	1.321.2100.22
PG 29	33	2	1.321.2900.17	1.321.2900.21	1.321.2900.22
PG 36	43	2	1.321.3600.17	1.321.3600.21	1.321.3600.22
PG 42	50	2	1.321.4200.17	1.321.4200.21	1.321.4200.22
PG 48	55	2	1.321.4800.17	1.321.4800.21	1.321.4800.22
NPT 3/8"	13	2	1.321.3800.77	1.321.3800.78	1.321.3800.79
NPT 1/2"	19	1,8	1.321.1200.77	1.321.1200.78	1.321.1200.79
NPT 3/4"	22	2,5	1.321.3400.77	1.321.3400.78	1.321.3400.79
NPT 1"	29	2	1.321.1000.77	1.321.1000.78	1.321.1000.79
NPT 1 1/4"	38	2,5	1.321.5400.77	1.321.5400.78	1.321.5400.79
NPT 1 1/2"	45	2,5	1.321.6400.77	1.321.6400.78	1.321.6400.79

Thread Seal Ring

Metr.



// GFK thread seal see page 113

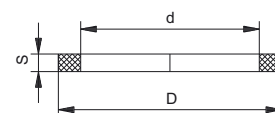
Thread Seal Ring PE

Material	Polyethylene
Operating Temperature	-30 °C – 70 °C (-22 °F – 158 °F)

Thread Seal Ring HD

Material	Fiber-reinforced plastic
Operating Temperature	-40 °C – 300 °C (-40 °F – 572 °F)

RoHS



Fits the following sizes	d mm	D mm	S mm	Number Polyethylene	Number Fiber-reinforced plastic
M 12 x 1,5	12	16	2	1.325.1200.59	1.325.1200.50
M 16 x 1,5	16	20	2	1.325.1600.59	1.325.1600.50
M 20 x 1,5	20	25	2	1.325.2000.59	1.325.2000.50
M 25 x 1,5	25	31	2	1.325.2500.59	1.325.2500.50
M 32 x 1,5	32	38	2	1.325.3200.59	1.325.3200.50
M 40 x 1,5	40	52,7	2	1.325.4000.59	1.325.4000.50
M 50 x 1,5	50	58	2	1.325.5000.59	1.325.5000.50
M 63 x 1,5	63	72	2	1.325.6300.59	1.325.6300.50

Thread Seal Ring

PG



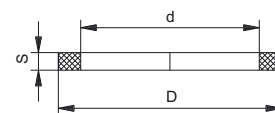
Thread Seal Ring PE

Material	Polyethylene
Operating Temperature	-30 °C – 70 °C (-22 °F – 158 °F)

Thread Seal Ring HD

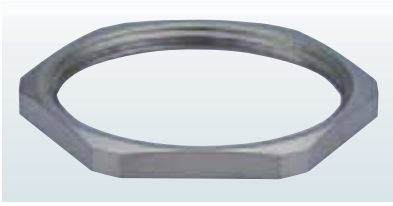
Material	Fiber-reinforced plastic
Operating Temperature	-40 °C – 300 °C (-40 °F – 572 °F)

RoHS

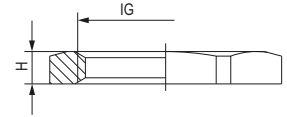


Fits the following sizes	d mm	D mm	S Polyethylene mm	S Fiber-reinforced plastic mm	Number Polyethylene	Number Fiber-reinforced plastic
PG 7	12,5	16,5	2	1,5	1.325.0700.19	1.325.0700.20
PG 9	15,2	19	2	1,5	1.325.0900.19	1.325.0900.20
PG 11	18,6	22,5	2	1,5	1.325.1100.19	1.325.1100.20
PG 13,5	20,4	25	2	1,5	1.325.1300.19	1.325.1300.20
PG 16	22,5	27	2	1,5	1.325.1600.19	1.325.1600.20
PG 21	28,3	33,5	2	2	1.325.2100.19	1.325.2100.20
PG 29	37	43,5	2	2	1.325.2900.19	1.325.2900.20
PG 36	47	55	2	2	1.325.3600.19	1.325.3600.20
PG 42	54	63	2	2	1.325.4200.19	1.325.4200.20
PG 48	59,3	69	2	2	1.325.4800.19	1.325.4800.20

Locknut GM-Ms Metr., PG, G



Material: Nickel plated brass

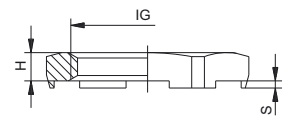


IG	H mm	mm	Number	IG	H mm	mm	Number	IG	H mm	mm	Number
M 12 x 1,5	2,8	15	1.161.1200.50	M 100 x 2	11	115	1.161.1000.50	PG 42	5,0	60	1.161.4200.01
M 16 x 1,5	2,8	19	1.161.1600.50	M 110 x 2	11	125	1.161.1100.50	PG 48	5,5	64	1.161.4800.01
M 20 x 1,5	3,0	23	1.161.2000.50	PG 7	2,8	15	1.161.0700.01	G 2 1/2"	7	80	1.106.5200.99
M 25 x 1,5	3,5	29	1.161.2500.50	PG 9	2,8	18	1.161.0900.01	G 3"	8	95	1.106.3000.99
M 32 x 1,5	4,0	36	1.161.3200.50	PG 11	3,0	21	1.161.1100.01	G 4"	11	125	1.106.4000.99
M 40 x 1,5	4,5	45	1.161.4000.50	PG 13,5	3,0	23	1.161.1300.01				
M 50 x 1,5	5,5	55	1.161.5000.50	PG16	3,0	26	1.161.1600.01				
M 63 x 1,5	6,0	70	1.161.6300.50	PG 21	3,5	32	1.161.2100.01				
M 75 x 1,5	8,0	85	1.161.7500.50	PG 29	4,0	41	1.161.2900.01				
M 80 x 2	8,0	90	1.161.8000.50	PG 36	5,0	51	1.161.3600.01				
M 90 x 2	8,0	100	1.161.9000.50								

Locknut GM-EMV Metr., PG



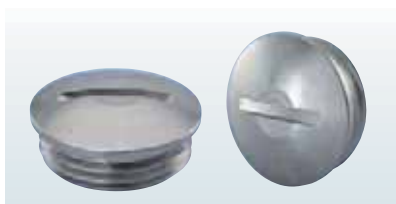
Material: Messing vernickelt



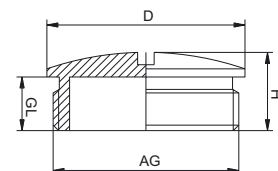
IG	H mm	mm	S mm	Number	IG	H mm	mm	S mm	Number
M 12 x 1,5	2,8	15	0,7	1.167.1200.50	PG 7	2,8	15	0,7	1.167.0700.01
M 16 x 1,5	2,8	19	0,7	1.167.1600.50	PG 9	2,8	18	0,7	1.167.0900.01
M 20 x 1,5	3,0	24	0,7	1.167.2000.50	PG 11	3,0	21	0,7	1.167.1100.01
M 25 x 1,5	3,5	30	0,7	1.167.2500.50	PG 13,5	3,0	23	0,7	1.167.1300.01
M 32 x 1,5	4,5	36	0,7	1.167.3200.50	PG 16	3,0	26	0,7	1.167.1600.01
M 40 x 1,5	5,0	46	0,7	1.167.4000.50	PG 21	3,5	32	0,7	1.167.2100.01
M 50 x 1,5	5,0	60	0,7	1.167.5000.50	PG 29	4,0	41	0,7	1.167.2900.01
M 63 x 1,5	6,0	70	0,7	1.167.6300.50	PG 36	5,0	51	0,7	1.167.3600.01
					PG 42	5,0	60	0,7	1.167.4200.01
					PG 48	5,5	64	0,7	1.167.4800.01

Plug V-N-Ms

Metr., PG



Material	Nickel plated brass
Protection	IP 54

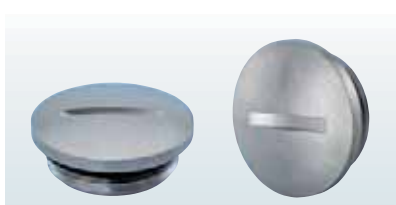


AG	GL mm	H mm	D mm	Number
M 12 x 1,5	5	7,5	14	1.052.1200.50
M 16 x 1,5	5	9,0	18	1.052.1600.50
M 20 x 1,5	6,5	9,5	22	1.052.2000.50
M 25 x 1,5	7	11,0	28	1.052.2500.50
M 32 x 1,5	8	12,0	35	1.052.3200.50
M 40 x 1,5	8,5	13,0	44	1.052.4000.50
M 50 x 1,5	9	15,0	54	1.052.5000.50
M 63 x 1,5	10	16,0	67	1.052.6300.50

AG	GL mm	H mm	D mm	Number
PG 7	5	8	14	1.052.0700.01
PG 9	6	9	17	1.052.0900.01
PG 11	6	9	20	1.052.1100.01
PG 13,5	6,5	9,5	22	1.052.1300.01
PG 16	6,5	9,5	24	1.052.1600.01
PG 21	7	11	30	1.052.2100.01
PG 29	8	12	39	1.052.2900.01
PG 36	9	15	50	1.052.3600.01
PG 42	10	16	57	1.052.4200.01
PG 48	10	16	64	1.052.4800.01

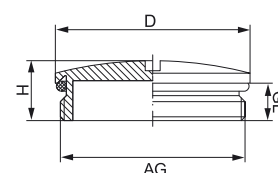
Plug V-N-Ms-SD

Metr., PG



// Other O-Ring materials upon request

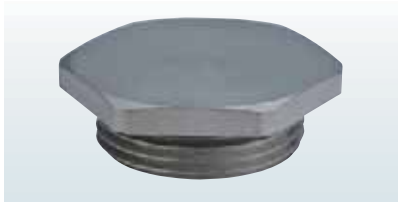
Material	Nickel plated brass
O-Ring	Buna-N
Protection	IP 68 (NEMA 6)
Operating Temperature	-40 °C – 80 °C 40 °F – 176 °F



AG	GL mm	H mm	D mm	Number
M 12 x 1,5	6,5	9,5	14	1.052.1201.50
M 16 x 1,5	6	9	20	1.052.1601.50
M 20 x 1,5	6,5	9,5	24	1.052.2001.50
M 25 x 1,5	7	11	28	1.052.2501.50
M 32 x 1,5	8	12,5	35	1.052.3201.50
M 40 x 1,5	8	12	45	1.052.4001.50
M 50 x 1,5	9	15	55	1.052.5001.50
M 63 x 1,5	10	16	68	1.052.6301.50

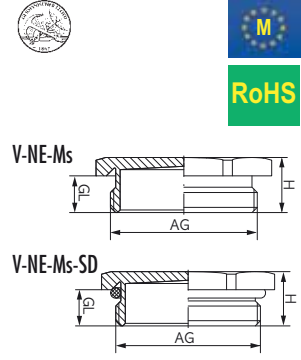
AG	GL mm	H mm	D mm	Number
PG 7	4,8	8	14	1.052.0701.01
PG 9	5,5	9	17	1.052.0901.01
PG 11	5,5	9	20	1.052.1101.01
PG 13,5	6	9,5	22	1.052.1301.01
PG 16	6	9,5	24	1.052.1601.01
PG 21	6,5	11	30	1.052.2101.01
PG 29	7,5	12	39	1.052.2901.01
PG 36	9	15	50	1.052.3601.01
PG 42	10	16	57	1.052.4201.01
PG 48	10	16	64	1.052.4801.01

Plug V-NE-Ms Metr.



// Other O-Ring materials upon request

Material	Nickel plated brass
V-NE-Ms	
Protection	IP 54
V-NE-Ms-SD / V-NE-Ms-SD-FKM	
Protection	IP 68 – 10 bar / IP 69K
O-Ring / Operating Temperature	Buna-N / -20 °C – 95 °C (-4 °F – 203 °F) FKM / -20 °C – 180 °C (-4 °F – 356 °F)



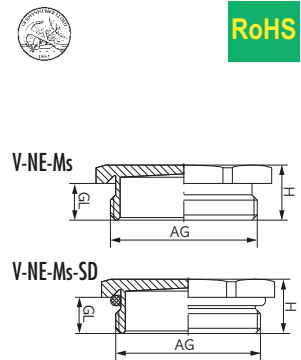
AG	GL mm	H mm	mm	Number V-NE-Ms without O-Ring	Number V-NE-Ms-SD -20 °C – 95 °C	Number V-NE-Ms-SD-FKM -20 °C – 180 °C
M 12 x 1,5	6,5	9,5	14	1.155.1200.50	1.156.1200.50	1.157.1200.50
M 16 x 1,5	6	9	19	1.155.1600.50	1.156.1600.50	1.157.1600.50
M 20 x 1,5	6	9,5	22	1.155.2000.50	1.156.2000.50	1.157.2000.50
M 25 x 1,5	7	10,5	30	1.155.2500.50	1.156.2500.50	1.157.2500.50
M 32 x 1,5	8	12,5	41	1.155.3200.50	1.156.3200.50	1.157.3200.50
M 40 x 1,5	8	13	46	1.155.4000.50	1.156.4000.50	1.157.4000.50
M 50 x 1,5	9	15	55	1.155.5000.50	1.156.5000.50	1.157.5000.50
M 63 x 1,5	10	16,5	70	1.155.6300.50	1.156.6300.50	1.157.6300.50

Plug V-NE-Ms PG



// Other O-Ring materials upon request

Material	Nickel plated brass
V-NE-Ms	
Protection	IP 54
V-NE-Ms-SD / V-NE-Ms-SD-FKM	
Protection	IP 68 – 10 bar / IP 69K
O-Ring / Operating Temperature	Buna-N / -20 °C – 95 °C (-4 °F – 203 °F) FKM / -20 °C – 180 °C (-4 °F – 356 °F)



AG	GL mm	H mm	mm	Number V-NE-Ms without O-Ring	Number V-NE-Ms-SD -20 °C – 95 °C	Number V-NE-Ms-SD-FKM -20 °C – 180 °C
PG 7	5	8	14	1.155.0700.01	1.156.0700.01	1.157.0700.01
PG 9	6	9	17	1.155.0900.01	1.156.0900.01	1.157.0900.01
PG 11	6	9,5	20	1.155.1100.01	1.156.1100.01	1.157.1100.01
PG 13,5	6,5	10	22	1.155.1300.01	1.156.1300.01	1.157.1300.01
PG 16	6,5	10	24	1.155.1600.01	1.156.1600.01	1.157.1600.01
PG 21	7	10,5	30	1.155.2100.01	1.156.2100.01	1.157.2100.01
PG 29	8	12,5	41	1.155.2900.01	1.156.2900.01	1.157.2900.01
PG 36	8	13	50	1.155.3600.01	1.156.3600.01	1.157.3600.01
PG 42	9	15	58	1.155.4200.01	1.156.4200.01	1.157.4200.01
PG 48	10	16,5	65	1.155.4800.01	1.156.4800.01	1.157.4800.01

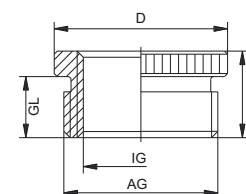
Adapter R-H

Metr., PG



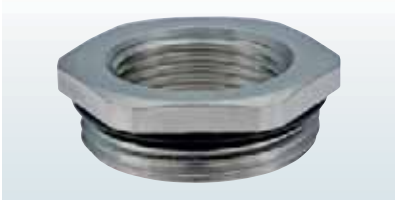
Material

Nickel plated brass



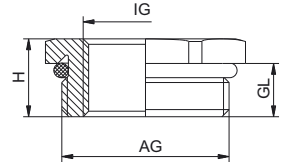
AG	IG	GL mm	H mm	D mm	Number
M 16 x 1,5	M 12 x 1,5	6,0	8,5	18	1.076.1612.50
M 20 x 1,5	M 12 x 1,5	6,5	9,0	24	1.076.2012.50
M 20 x 1,5	M 16 x 1,5	6,5	9,0	24	1.076.2016.50
M 25 x 1,5	M 16 x 1,5	7,0	10,0	30	1.076.2516.50
M 25 x 1,5	M 20 x 1,5	7,0	10,0	30	1.076.2520.50
M 32 x 1,5	M 20 x 1,5	8,0	11,5	39	1.076.3220.50
M 32 x 1,5	M 25 x 1,5	8,0	11,5	39	1.076.3225.50
M 40 x 1,5	M 25 x 1,5	8,0	11,5	43	1.076.4025.50
M 40 x 1,5	M 32 x 1,5	9,0	12,5	43	1.076.4032.50
M 50 x 1,5	M 32 x 1,5	10,0	14,0	57	1.076.5032.50
M 50 x 1,5	M 40 x 1,5	10,0	14,0	57	1.076.5040.50
M 63 x 1,5	M 40 x 1,5	10,0	14,0	64	1.076.6340.50
M 63 x 1,5	M 50 x 1,5	10,0	14,0	64	1.076.6350.50
PG 9	PG 7	6	8,5	17	1.071.0907.01
PG 11	PG 7	6	8,5	20	1.071.1107.01
PG 11	PG 9	6	8,5	20	1.071.1109.01
PG 13,5	PG 9	6,5	9	22	1.071.1309.01
PG 13,5	PG 11	6,5	9	22	1.071.1311.01
PG 16	PG 9	6,5	9,5	24	1.071.1609.01
PG 16	PG 11	6,5	9,5	24	1.071.1611.01
PG 16	PG 13,5	6,5	9,5	24	1.071.1613.01
PG 21	PG 11	7	10	30	1.071.2111.01
PG 21	PG 13,5	7	10	30	1.071.2113.01
PG 21	PG 16	7	10	30	1.071.2116.01
PG 29	PG 16	8	11,5	39	1.071.2916.01
PG 29	PG 21	8	11,5	39	1.071.2921.01
PG 36	PG 21	9	12,5	50	1.071.3621.01
PG 36	PG 29	9	12,5	50	1.071.3629.01
PG 42	PG 29	10	14	57	1.071.4229.01
PG 42	PG 36	10	14	57	1.071.4236.01
PG 48	PG 36	10	14	64	1.071.4836.01
PG 48	PG 42	10	14	64	1.071.4842.01

Adapter RSD-Ms Metr.



// Other O-Ring materials upon request

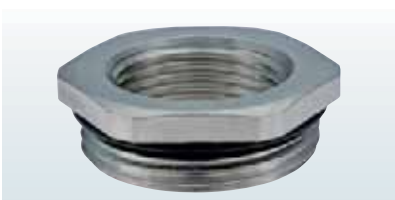
Material	Nickel plated brass
O-Ring	Buna-N
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)



AG	IG mm	GL mm	H mm	Ø mm	Number
M 16 x 1,5	M 12 x 1,5	5	8	17	1.077.1612.50
M 20 x 1,5	M 12 x 1,5	6	9	22	1.077.2012.50
M 20 x 1,5	M 16 x 1,5	6	9	22	1.077.2016.50
M 25 x 1,5	M 16 x 1,5	7	10	29	1.077.2516.50
M 25 x 1,5	M 20 x 1,5	7	10	29	1.077.2520.50
M 32 x 1,5	M 16 x 1,5	8	11	34	1.077.3216.50
M 32 x 1,5	M 20 x 1,5	8	11	34	1.077.3220.50
M 32 x 1,5	M 25 x 1,5	8	11	34	1.077.3225.50
M 40 x 1,5	M 20 x 1,5	8	12	43	1.077.4020.50
M 40 x 1,5	M 25 x 1,5	8	12	43	1.077.4025.50
M 40 x 1,5	M 32 x 1,5	8	12	43	1.077.4032.50

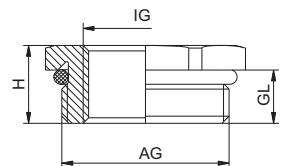
AG	IG mm	GL mm	H mm	Ø mm	Number
M 50 x 1,5	M 25 x 1,5	9	13	55	1.077.5025.50
M 50 x 1,5	M 32 x 1,5	9	13	55	1.077.5032.50
M 50 x 1,5	M 40 x 1,5	9	13	55	1.077.5040.50
M 63 x 1,5	M 32 x 1,5	10	14	65	1.077.6332.50
M 63 x 1,5	M 40 x 1,5	10	14	65	1.077.6340.50
M 63 x 1,5	M 50 x 1,5	10	14	65	1.077.6350.50

Adapter RSD-Ms PG



// Other O-Ring materials upon request

Material	Nickel plated brass
O-Ring	Buna-N
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)



AG	IG mm	GL mm	H mm	Ø mm	Number
PG 9	PG 7	6	8,8	17	1.077.0907.01
PG 11	PG 7	6	9	20	1.077.1107.01
PG 11	PG 9	6	9	20	1.077.1109.01
PG 13,5	PG 9	6,5	9,5	22	1.077.1309.01
PG 13,5	PG 11	6,5	9,5	22	1.077.1311.01
PG 16	PG 9	6,5	9,5	24	1.077.1609.01
PG 16	PG 11	6,5	9,5	24	1.077.1611.01
PG 16	PG 13,5	6,5	9,5	24	1.077.1613.01
PG 21	PG 11	7	10,3	30	1.077.2111.01
PG 21	PG 13,5	7	10,3	30	1.077.2113.01
PG 21	PG 16	7	10,3	30	1.077.2116.01

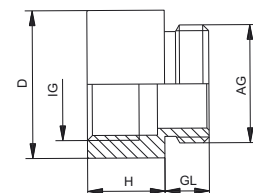
AG	IG mm	GL mm	H mm	Ø mm	Number
PG 29	PG 16	8	11,5	40	1.077.2916.01
PG 29	PG 21	8	11,5	40	1.077.2921.01
PG 36	PG 21	9	12,5	50	1.077.3621.01
PG 36	PG 29	9	12,5	50	1.077.3629.01
PG 42	PG 29	10	13,5	57	1.077.4229.01
PG 42	PG 36	10	13,5	57	1.077.4236.01
PG 48	PG 36	10	13,5	64	1.077.4836.01
PG 48	PG 42	10	13,5	64	1.077.4842.01

Adapter RE-Ms

Metr., PG



Material Nickel plated brass



AG	IG mm	GL mm	H mm	D mm	Number
M 16 x 1,5	PG 9	6	10,5	20	1.039.1609.01
M 20 x 1,5	PG 11	6,5	12,5	22	1.039.2011.01
M 20 x 1,5	PG 13,5	6,5	12,5	22	1.039.2013.01
M 20 x 1,5	PG 16	6,5	12,5	24	1.039.2016.01
M 25 x 1,5	PG 16	6,5	12,5	28	1.039.2516.01
M 25 x 1,5	PG 21	6,5	14,5	30	1.039.2521.01
M 32 x 1,5	PG 29	7	16	39	1.039.3229.01

AG	IG mm	GL mm	H mm	D mm	Number
PG 9	M 16 x 1,5	6	10,5	20	1.039.0916.01
PG 11	M 20 x 1,5	6,5	12,5	22	1.039.1120.01
PG 13,5	M 20 x 1,5	6,5	12,5	22	1.039.1320.01
PG 16	M 25 x 1,5	6,5	14,5	27	1.039.1625.01

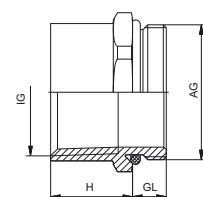
Adapter RE-Ms

Metr., PG



Material Nickel plated brass

O-Ring Buna-N

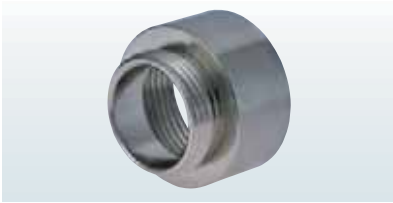


AG	IG mm	GL mm	H mm	mm	Number
M 16 x 1,5	NPT 1/2"	6	17	24	1.171.1612.50
M 20 x 1,5	NPT 1/2"	6	17	24	1.171.2012.50
M 25 x 1,5	NPT 1/2"	7	8	30	1.171.2512.50
M 25 x 1,5	NPT 3/4"	7	19	30	1.171.2534.50
M 32 x 1,5	NPT 1"	8	25	40	1.171.3210.50
M 32 x 1,5	NPT 1 1/4"	8	25	46	1.171.3254.50

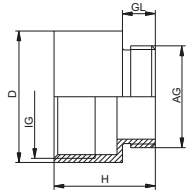
AG	IG mm	GL mm	H mm	mm	Number
PG 11	NPT 1/2"	6	16,7	24	1.171.1112.01
PG 13,5	NPT 1/2"	6,5	17	24	1.171.1312.01
PG 16	NPT 1/2"	6,5	16,5	24	1.171.1612.01
PG 21	NPT 1/2"	7	8	30	1.171.2112.01
PG 21	NPT 3/4"	7	17	30	1.171.2134.01
PG 29	NPT 1"	8	12	40	1.171.2910.01

Adapter E-Ms

Metr.



Material Nickel plated brass



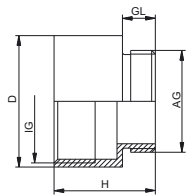
AG	IG	GL mm	H mm	D mm	Number
M 12 x 1,5	M 16 x 1,5	5	15	18	1.033.1216.50
M 16 x 1,5	M 20 x 1,5	6	17,5	22	1.033.1620.50
M 20 x 1,5	M 25 x 1,5	6,5	19	27	1.033.2025.50
M 25 x 1,5	M 32 x 1,5	6,5	21	34	1.033.2532.50
M 32 x 1,5	M 40 x 1,5	7	23	42	1.033.3240.50
M 40 x 1,5	M 50 x 1,5	9	31	53	1.033.4050.50
M 50 x 1,5	M 63 x 1,5	9	31	66	1.033.5063.50

Adapter E-Ms

PG



Material Nickel plated brass



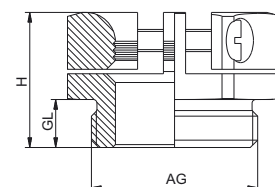
AG	IG	GL mm	H mm	D mm	Number
PG 7	PG 9	5	15	17	1.033.0709.01
PG 9	PG 11	6	16,5	20	1.033.0911.01
PG 9	PG 13,5	6	17,5	22	1.033.0913.01
PG 11	PG 13,5	6	17,5	22	1.033.1113.01
PG 11	PG 16	6	18,5	24	1.033.1116.01
PG 11	PG 21	6	20,5	30	1.033.1121.01
PG 13,5	PG 16	6,5	19	24	1.033.1316.01
PG 13,5	PG 21	6,5	21	30	1.033.1321.01
PG 16	PG 21	6,5	21	30	1.033.1621.01
PG 16	PG 29	6,5	22,5	39	1.033.1629.01
PG 21	PG 29	7	23	39	1.033.2129.01

KLE

Metr.



Material Nickel plated brass



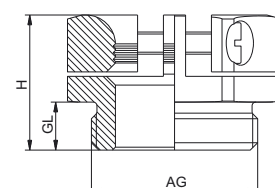
AG	Ø mm	GL	H mm	Ø mm	Number
M 12 x 1,5	5-7,5	5,5	15,0	16	1.143.1200.50
M 16 x 1,5	7-10	6,0	16,0	19	1.143.1600.50
M 20 x 1,5	10-14	6,5	18,0	24	1.143.2000.50
M 25 x 1,5	12-21,5	8,0	21,0	34	1.143.2500.50
M 32 x 1,5	16-27	8,0	22,0	42	1.143.3200.50
M 40 x 1,5	22-33	9,5	25,5	52	1.143.4000.50

KLE

PG



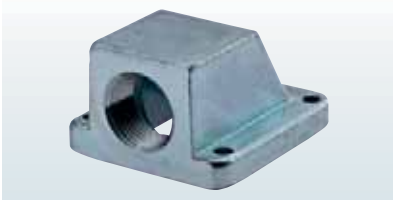
Material Nickel plated brass



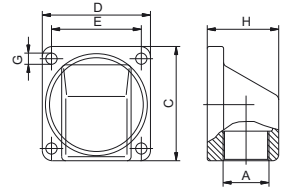
AG	Ø mm	GL	H mm	Ø mm	Number
PG 7	5,5-8	5,5	14,8	16	1.143.0700.01
PG 9	6,5-10	6	16,6	19	1.143.0900.01
PG 11	7,5-12	6	17,3	22	1.143.1100.01
PG 13,5	8,5-14	6,5	17,8	24	1.143.1300.01
PG 16	9,5-16	6,5	18,3	26	1.143.1600.01
PG 21	12-21	7,5	20,8	33	1.143.2100.01
PG 29	19-30	8	21,8	42	1.143.2900.01
PG 36	25-37	9,5	25,3	52	1.143.3600.01
PG 42	31-43	10	26,3	59	1.143.4200.01
PG 48	35-48	11	27,3	64	1.143.4800.01

FW-ZN

Metr.



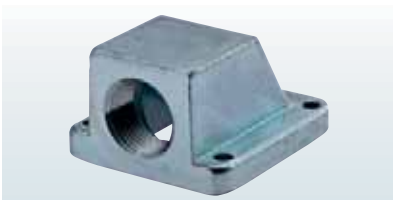
Material	Zinc die casting
O-Ring	Buna-N
Protection	IP 65
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F)



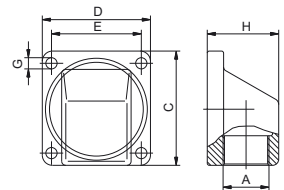
A	C mm	D mm	E mm	G mm	H mm	Number
M 20 x 1,5	56	53	44	5,5	35	1.306.2000.50
M 25 x 1,5	65	63	54	5,5	42	1.306.2500.50
M 32 x 1,5	75	71	60	5,5	52	1.306.3200.50
M 50 x 1,5	93	89	72	6,5	69	1.306.5000.50
M 63 x 1,5	114	96	84	6,5	74	1.306.6300.50

FW-ZN

PG



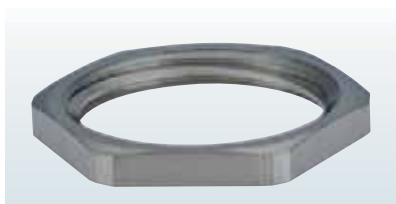
Material	Zinc die casting
O-Ring	Buna-N
Protection	IP 65
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F)



A	C mm	D mm	E mm	G mm	H mm	Number
PG 9	50	45	37	4,3	30	1.306.0900.05
PG 11	50	45	37	4,3	30	1.306.1100.05
PG 13,5	56	53	44	5,5	35	1.306.1300.05
PG 16	56	53	44	5,5	35	1.306.1600.05
PG 21	65	63	54	5,5	42	1.306.2100.05
PG 29	74	70	60	5,5	52	1.306.2900.05
PG 36	94	89	72	6,5	69	1.306.3600.05
PG 42	114	96	84	6,5	74	1.306.4200.05
PG 48	114	96	84	6,5	74	1.306.4800.05

Locknut GM-INOX

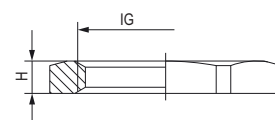
Metr.



Material INOX 1.4305



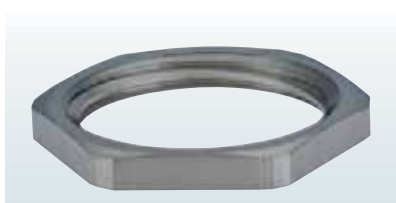
// Other sizes upon request
// Other steel upon request



IG	H mm	 mm	Number
M 12 x 1,5	2,8	15	1.161.1200.58
M 16 x 1,5	2,8	19	1.161.1600.58
M 20 x 1,5	3	24	1.161.2000.58
M 25 x 1,5	3,5	30	1.161.2500.58
M 32 x 1,5	3,5	36	1.161.3200.58
M 40 x 1,5	5	46	1.161.4000.58
M 50 x 1,5	5	57	1.161.5000.58
M 63 x 1,5	6	70	1.161.6300.58

Locknut GM-INOX

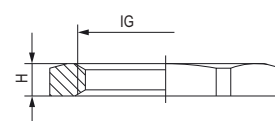
PG



Material INOX 1.4305



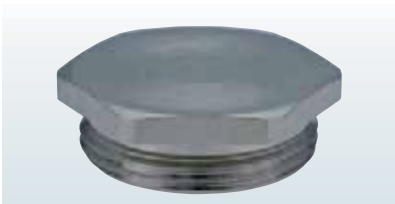
// Other sizes upon request
// Other steel upon request



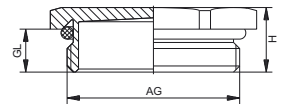
IG	H mm	 mm	Number
PG 7	2,8	17	1.161.0700.08
PG 9	2,8	22	1.161.0900.08
PG 11	3	22	1.161.1100.08
PG 13,5	3	24	1.161.1300.08
PG 16	3	27	1.161.1600.08
PG 21	3,5	32	1.161.2100.08
PG 29	4	41	1.161.2900.08
PG 36	5	50	1.161.3600.08

Plug V-INOX

Metr.



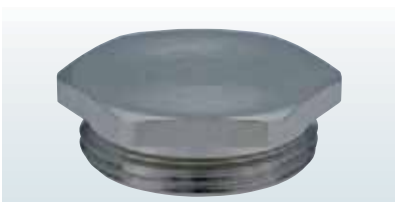
Material	INOX 1.4305
O-Ring	Buna-N /FKM /VMQ
Protection	IP 68 – 10 bar /IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F) (Buna-N), -20 °C – 180 °C (-4 °F – 356 °F) (FKM), -60 °C – 180 °C (-76 °F – 356 °F) (VMQ)



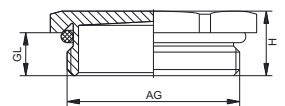
AG	GL mm	H mm	 mm	Number V-INOX-NBR -20 °C – 95 °C	Number V-INOX-FKM -20 °C – 180 °C	Number V-INOX-VMQ -60 °C – 180 °C
M 12 x 1,5	6,5	9,5	14	1.152.1200.50	1.153.1200.50	1.154.1200.50
M 16 x 1,5	6	9	19	1.152.1600.50	1.153.1600.50	1.154.1600.50
M 20 x 1,5	6	9,5	22	1.152.2000.50	1.153.2000.50	1.154.2000.50
M 25 x 1,5	7	10,5	30	1.152.2500.50	1.153.2500.50	1.154.2500.50
M 32 x 1,5	8	12,5	41	1.152.3200.50	1.153.3200.50	1.154.3200.50
M 40 x 1,5	8	13	46	1.152.4000.50	1.153.4000.50	1.154.4000.50

Plug V-INOX

PG



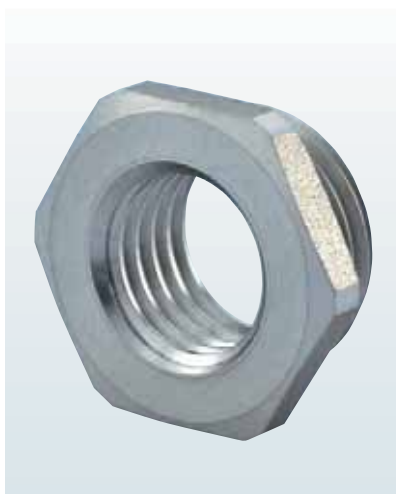
Material	INOX 1.4305
O-Ring	Buna-N /FKM /VMQ
Protection	IP 68 – 10 bar /IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F) (Buna-N), -20 °C – 180 °C (-4 °F – 356 °F) (FKM), -60 °C – 180 °C (-76 °F – 356 °F) (VMQ)



AG	GL mm	H mm	 mm	Number V-INOX-NBR -20 °C – 95 °C	Number V-INOX-FKM -20 °C – 180 °C	Number V-INOX-VMQ -60 °C – 180 °C
PG 7	5	8	14	1.152.0700.01	1.153.0700.01	1.154.0700.01
PG 9	6	9	17	1.152.0900.01	1.153.0900.01	1.154.0900.01
PG 11	6	9,5	20	1.152.1100.01	1.153.1100.01	1.154.1100.01
PG 13,5	6,5	10	22	1.152.1300.01	1.153.1300.01	1.154.1300.01
PG 16	6,5	10	24	1.152.1600.01	1.153.1600.01	1.154.1600.01
PG 21	7	10,5	30	1.152.2100.01	1.153.2100.01	1.154.2100.01
PG 29	8	12,5	41	1.152.2900.01	1.153.2900.01	1.154.2900.01
PG 36	8	13	50	1.152.3600.01	1.153.3600.01	1.154.3600.01

Adapter RS-INOX / RSD-INOX

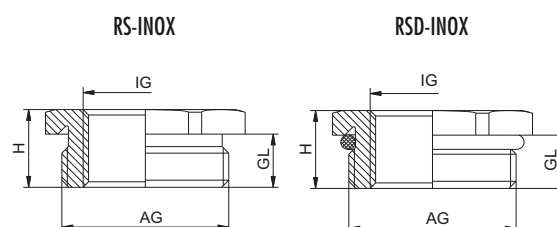
Metr.



Material	INOX 1.4305
O-Ring	Buna-N
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F)



// Other O-Ring materials upon request



AG	IG	GL mm	H mm	mm	Number RS-INOX without O-Ring	Number RSD-INOX
M 16 x 1,5	M 12 x 1,5	6	9	19	1.094.1612.50	1.097.1612.50
M 20 x 1,5	M 12 x 1,5	6	9,5	22	1.094.2012.50	1.097.2012.50
M 20 x 1,5	M 16 x 1,5	6	9,5	22	1.094.2016.50	1.097.2016.50
M 25 x 1,5	M 16 x 1,5	7	10,5	27	1.094.2516.50	1.097.2516.50
M 25 x 1,5	M 20 x 1,5	7	10,5	27	1.094.2520.50	1.097.2520.50
M 32 x 1,5	M 16 x 1,5	8	12,5	34	1.094.3216.50	1.097.3216.50
M 32 x 1,5	M 20 x 1,5	8	12,5	34	1.094.3220.50	1.097.3220.50
M 32 x 1,5	M 25 x 1,5	8	12,5	34	1.094.3225.50	1.097.3225.50
M 40 x 1,5	M 20 x 1,5	8	13	43	1.094.4020.50	1.097.4020.50
M 40 x 1,5	M 25 x 1,5	8	13	43	1.094.4025.50	1.097.4025.50
M 40 x 1,5	M 32 x 1,5	8	13	43	1.094.4032.50	1.097.4032.50
M 50 x 1,5	M 25 x 1,5	9	15	55	1.094.5025.50	1.097.5025.50
M 50 x 1,5	M 32 x 1,5	9	15	55	1.094.5032.50	1.097.5032.50
M 50 x 1,5	M 40 x 1,5	9	15	55	1.094.5040.50	1.097.5040.50
M 63 x 1,5	M 32 x 1,5	10	16,5	65	1.094.6332.50	1.097.6332.50
M 63 x 1,5	M 40 x 1,5	10	16,5	65	1.094.6340.50	1.097.6340.50
M 63 x 1,5	M 50 x 1,5	10	16,5	65	1.094.6350.50	1.097.6350.50

Adapter RS-INOX / RSD-INOX

PG

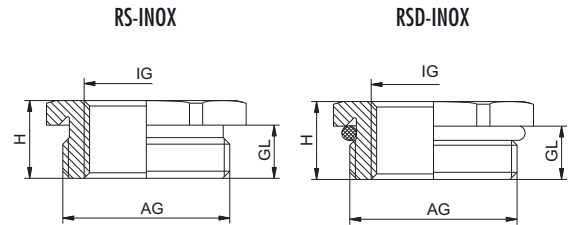


Material	INOX 1.4305
O-Ring	Buna-N
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F)



RoHS

// Other O-Ring materials upon request



AG	IG	GL mm	H mm	 mm	Number RS-INOX without O-Ring	Number RSD-INOX
PG 9	PG 7	6	8,8	17	1.094.0907.01	1.097.0907.01
PG 11	PG 7	6	9	22	1.094.1107.01	1.097.1107.01
PG 11	PG 9	6	9	22	1.094.1109.01	1.097.1109.01
PG 13,5	PG 9	6,5	9,5	22	1.094.1309.01	1.097.1309.01
PG 13,5	PG 11	6,5	9,5	22	1.094.1311.01	1.097.1311.01
PG 16	PG 9	6,5	9,5	24	1.094.1609.01	1.097.1609.01
PG 16	PG 11	6,5	9,5	24	1.094.1611.01	1.097.1611.01
PG 16	PG 13,5	6,5	9,5	24	1.094.1613.01	1.097.1613.01
PG 21	PG 11	7	10,3	30	1.094.2111.01	1.097.2111.01
PG 21	PG 13,5	7	10,3	30	1.094.2113.01	1.097.2113.01
PG 21	PG 16	7	10,3	30	1.094.2116.01	1.097.2116.01
PG 29	PG 16	8	11,5	41	1.094.2916.01	1.097.2916.01
PG 29	PG 21	8	11,5	41	1.094.2921.01	1.097.2921.01
PG 36	PG 21	9	12,5	50	1.094.3621.01	1.097.3621.01
PG 36	PG 29	9	12,5	50	1.094.3629.01	1.097.3629.01
PG 42	PG 29	10	13,5	60	1.094.4229.01	1.097.4229.01
PG 42	PG 36	10	13,5	60	1.094.4236.01	1.097.4236.01
PG 48	PG 36	10	13,5	65	1.094.4836.01	1.097.4836.01
PG 48	PG 42	10	13,5	65	1.094.4842.01	1.097.4842.01

CABLE GLANDS FOR „HAZARDOUS AREAS“



Cable glands for all popular threads, used in electrical equipment and hazardous areas in Group I, II and III applications. The Ex d, Ex e and / or Ex ta certified cable glands have been designed for all explosion proof areas which are in need of high standards, reliability, strain relief and water proof requirements, e.g. marine, offshore, gas conveying machinery, refineries and chemical industry.

- // **EXIOS+ STANDARD** The innovative HUMMEL high-end cable gland for armoured cables in hazardous areas including the latest IECEx and ATEX certifications, for the use in Ex e, Ex d and Ex ta areas
- // **EXIOS+ MZ** High-end cable gland with extra strain relief and zero torsion on armour and wires. For armoured cables in hazardous areas including the latest IECEx and ATEX certifications, for the use in Ex e, Ex d and Ex ta areas.
- // **EXIOS+ BARRIER** High-end cable gland for armoured cables in hazardous areas uses a barrier compound sealing. Including the latest IECEx and ATEX certifications, for the use in Ex e, Ex d and Ex ta areas.
- // **EXIOS+ A2F** For non-armoured cables for the use in Ex e and Ex d areas
- // Accessories

For any further question please do not hesitate to contact us. We look forward to develop solutions together with you. You profit from our vast knowledge in development, engineering and production technology.



CABLE GLANDS FOR „HAZARDOUS AREAS“

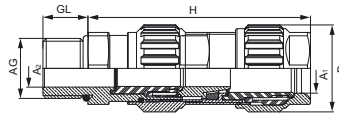
EXIOS⁺ STANDARD

Metr., NPT



Material	Brass
Seal	Silicone, VMQ
Clamping insert	PA 6
Armouring	Metallic Armour or Screen
Protection	IP 66, 67 and 68 (5 bar)
Operating Temperature	-60 °C – 105 °C (-76 °F – 221 °F)

// INOX on request



AG	Size	Ø A1 mm	Ø A2 mm	GL mm	H max. mm	Ø mm	D mm	Armouring Ø mm			Number
								Clamping ring 1	Clamping ring 2	Clamping ring optional	
M 16 x1,5	20-1	6-12	3-8,1	16	69,5	22	27	0-0,7	0,7-1,25		1.605.1600.50
M 20 x1,5	20-1	6-12	3-8,1	16	69,5	22	27	0-0,7	0,7-1,25		1.605.2000.50
M 20 x1,5	20-2	9-16	6-12	16	74,3	24	29	0-0,7	0,7-1,25		1.605.2000.51
M 20 x1,5	20-3	12,5-20,5	9-14	16	80,5	30	35	0-0,7	0,7-1,4		1.605.2000.52
M 25 x1,5	20-3	12,5-20,5	9-14	16	80,5	30	35	0-0,7	0,7-1,4		1.605.2500.51
M 25 x1,5	25	16,9-26	12,5-20,5	16	91	36	42	0-0,7	0,9-1,6	0,7-1,4	1.605.2500.50
M 32 x1,5	32	22-33	16,9-26	16	96	46	52	0-0,7	1,3-2,0	0,7-1,4	1.605.3200.50
M 40 x1,5	40	28-41	22-33	16	107	55	64	0-0,7	1,3-2,0	0,7-1,4	1.605.4000.50
M 50 x1,5	50	36-52,6	28,9-44,4	16	131,5	65	73	0-1,0	1,5-2,5	1,0-2,0	1.605.5000.50
M 63 x1,5	63	46-65,3	39,9-56,3	16	144,5	80	90	0-1,0	1,5-2,5	1,0-2,0	1.605.6300.50
M 75 x1,5	75	57-78	50,5-68,2	16	154	95	107	0-1,0	1,5-2,5	1,0-2,0	1.605.7500.50
NPT 3/8"	20-1	6-12	3-8,1	16	69,5	22	27	0-0,7	0,7-1,25		1.605.3800.70
NPT 1/2"	20-2	9-16	6-12	20	74,3	24	29	0-0,7	0,7-1,25		1.605.1200.70
NPT 1/2"	20-3	12,5-20,5	9-14	20	80,5	30	35	0-0,7	0,7-1,4		1.605.1200.71
NPT 3/4"	25	16,9-26	12,5-20,5	20,5	91	36	42	0-0,7	0,9-1,6	0,7-1,4	1.605.3400.70
NPT 1"	32	22-33	16,9-26	25	96	46	52	0-0,7	1,3-2,0	0,7-1,4	1.605.1000.70
NPT 1 1/4"	40	28-41	22-33	26	107	55	64	0-0,7	1,3-2,0	0,7-1,4	1.605.5400.70
NPT 1 1/2"	40	28-41	22-33	26,5	107	55	64	0-0,7	1,3-2,0	0,7-1,4	1.605.6400.70
NPT 2"	50	36-52,6	28,9-44,4	27	131,5	65	73	0-1,0	1,5-2,5	1,0-2,0	1.605.2000.70
NPT 2 1/2"	63	46-65,3	39,9-56,3	40	144,5	80	90	0-1,0	1,5-2,5	1,0-2,0	1.605.5200.70
NPT 3"	75	57-78	50,5-68,2	41,5	154	95	107	0-1,0	1,5-2,5	1,0-2,0	1.605.3000.70

CABLE GLANDS FOR „HAZARDOUS AREAS“

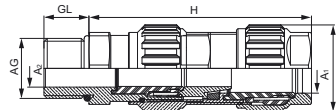
EXIOS⁺ STANDARD

Metr., NPT



Material	Nickel plated brass
Seal	Silicone, VMQ
Clamping insert	PA 6
Armouring	Metallic Armour or Screen
Protection	IP 66, 67 and 68 (5 bar)
Operating Temperature	-60 °C – 105 °C (-76 °F – 221 °F)

// INOX on request



AG	Size	Ø A1 mm	Ø A2 mm	GL mm	H max. mm	Ø mm	D mm	Armouring Ø mm			Number
								Clamping ring 1	Clamping ring 2	Clamping ring optional	
M 16 x1,5	20-1	6-12	3-8,1	16	69,5	22	27	0-0,7	0,7-1,25		1.605.1603.50
M 20 x1,5	20-1	6-12	3-8,1	16	69,5	22	27	0-0,7	0,7-1,25		1.605.2003.50
M 20 x1,5	20-2	9-16	6-12	16	74,3	24	29	0-0,7	0,7-1,25		1.605.2003.51
M 20 x1,5	20-3	12,5-20,5	9-14	16	80,5	30	35	0-0,7	0,7-1,4		1.605.2003.52
M 25 x1,5	20-3	12,5-20,5	9-14	16	80,5	30	35	0-0,7	0,7-1,4		1.605.2503.51
M 25 x1,5	25	16,9-26	12,5-20,5	16	91	36	42	0-0,7	0,9-1,6	0,7-1,4	1.605.2503.50
M 32 x1,5	32	22-33	16,9-26	16	96	46	52	0-0,7	1,3-2,0	0,7-1,4	1.605.3203.50
M 40 x1,5	40	28-41	22-33	16	107	55	64	0-0,7	1,3-2,0	0,7-1,4	1.605.4003.50
M 50 x1,5	50	36-52,6	28,9-44,4	16	131,5	65	73	0-1,0	1,5-2,5	1,0-2,0	1.605.5003.50
M 63 x1,5	63	46-65,3	39,9-56,3	16	144,5	80	90	0-1,0	1,5-2,5	1,0-2,0	1.605.6303.50
M 75 x1,5	75	57-78	50,5-68,2	16	154	95	107	0-1,0	1,5-2,5	1,0-2,0	1.605.7503.50
NPT 3/8"	20-1	6-12	3-8,1	16	69,5	22	27	0-0,7	0,7-1,25		1.605.3803.70
NPT 1/2"	20-2	9-16	6-12	20	74,3	24	29	0-0,7	0,7-1,25		1.605.1203.70
NPT 1/2"	20-3	12,5-20,5	9-14	20	80,5	30	35	0-0,7	0,7-1,4		1.605.1203.71
NPT 3/4"	25	16,9-26	12,5-20,5	20,5	91	36	42	0-0,7	0,9-1,6	0,7-1,4	1.605.3403.70
NPT 1"	32	22-33	16,9-26	25	96	46	52	0-0,7	1,3-2,0	0,7-1,4	1.605.1003.70
NPT 1 1/4"	40	28-41	22-33	26	107	55	64	0-0,7	1,3-2,0	0,7-1,4	1.605.5403.70
NPT 1 1/2"	40	28-41	22-33	26,5	107	55	64	0-0,7	1,3-2,0	0,7-1,4	1.605.6403.70
NPT 2"	50	36-52,6	28,9-44,4	27	131,5	65	73	0-1,0	1,5-2,5	1,0-2,0	1.605.2003.70
NPT 2 1/2"	63	46-65,3	39,9-56,3	40	144,5	80	90	0-1,0	1,5-2,5	1,0-2,0	1.605.5203.70
NPT 3"	75	57-78	50,5-68,2	41,5	154	95	107	0-1,0	1,5-2,5	1,0-2,0	1.605.3003.70



Material	Brass
Seal	Silicone, VMQ
Clamping insert	PA 6
Armouring	Metallic Armour or Screen
Protection	IP 66, 67 and 68 (5 bar)
Operating Temperature	-60°C – 105°C (-76°F – 221°F)

// INOX on request



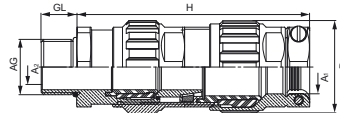
ATEX_{Ex} BVS 10 ATEX E 062 X

Ex II 2G Ex de IIC Gb
II 1D Ex ta IIIC Da

IECEx IECEx BVS 10.0078X

EAC RU C-DE.ГБ05.В.00077

CSA 12.2557737X



AG	Size	∅A1 mm	∅A2 mm	GL mm	H max. mm	R mm	D mm	Armouring Ø mm			Number
								Clamping ring 1	Clamping ring 2	Clamping ring optional	
M 16 x1,5	20-1	6-11	3-8,1	16	79	22	27	0-0,7	0,7-1,25		1.675.1600.50
M 20 x1,5	20-1	6-11	3-8,1	16	79	22	27	0-0,7	0,7-1,25		1.675.2000.50
M 20 x1,5	20-2	9-13	6-12	16	83,8	24	29	0-0,7	0,7-1,25		1.675.2000.51
M 20 x1,5	20-3	12,5-17,5	9-14	16	91,5	30	35	0-0,7	0,7-1,4		1.675.2000.52
M 25 x1,5	20-3	12,5-17,5	9-14	16	91,5	30	35	0-0,7	0,7-1,4		1.675.2500.51
M 25 x1,5	25	16,9-24	12,5-20,5	16	105,7	36	42	0-0,7	0,9-1,6	0,7-1,4	1.675.2500.50
M 32 x1,5	32	22-32,5	16,9-26	16	107	46	52	0-0,7	1,3-2,0	0,7-1,4	1.675.3200.50
M 40 x1,5	40	28-41	22-33	16	120	55	64	0-0,7	1,3-2,0	0,7-1,4	1.675.4000.50
M 50 x1,5	50	36-39,5	28,9-44,4	16	144,5	65	73	0-1,0	1,5-2,5	1,0-2,0	1.675.5000.50
M 63 x1,5	63	46-64	39,9-56,3	16	157,5	80	90	0-1,0	1,5-2,5	1,0-2,0	1.675.6300.50
M 75 x1,5	75	57-78	50,5-68,2	16	167	95	107	0-1,0	1,5-2,5	1,0-2,0	1.675.7500.50
NPT 3/8"	20-1	6-11	3-8,1	16	79	22	27	0-0,7	0,7-1,25		1.675.3800.70
NPT 1/2"	20-2	9-13	6-12	20	83,8	24	29	0-0,7	0,7-1,25		1.675.1200.70
NPT 1/2"	20-3	12,5-17,5	9-14	20	91,5	30	35	0-0,7	0,7-1,4		1.675.1200.71
NPT 3/4"	25	16,9-24	12,5-20,5	20,5	105,7	36	42	0-0,7	0,9-1,6	0,7-1,4	1.675.3400.70
NPT 1"	32	22-32,5	16,9-26	25	107	46	52	0-0,7	1,3-2,0	0,7-1,4	1.675.1000.70
NPT 1 1/4"	40	28-39,5	22-33	26	120	55	64	0-0,7	1,3-2,0	0,7-1,4	1.675.5400.70
NPT 1 1/2"	40	28-39,5	22-33	26,5	120	55	64	0-0,7	1,3-2,0	0,7-1,4	1.675.6400.70
NPT 2"	50	36-49	28,9-44,4	27	144,5	65	73	0-1,0	1,5-2,5	1,0-2,0	1.675.2000.70
NPT 2 1/2"	63	46-64	39,9-56,3	40	157,5	80	90	0-1,0	1,5-2,5	1,0-2,0	1.675.5200.70
NPT 3"	75	57-78	50,5-68,2	41,5	167	95	107	0-1,0	1,5-2,5	1,0-2,0	1.675.3000.70

CABLE GLANDS FOR „HAZARDOUS AREAS“

EXIOS⁺MZ
Metr., NPT


Material	Nickel plated brass
Seal	Silicone, VMQ
Clamping insert	PA 6
Armouring	Metallic Armour or Screen
Protection	IP 66, 67 and 68 (5 bar)
Operating Temperature	-60°C – 105°C (-76°F – 221°F)

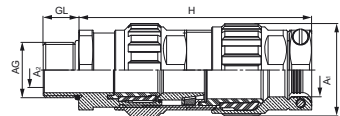
// INOX on request


ATEX_{Ex} BVS 10 ATEX E 062 X

Ex II 2G Ex de IIC Gb
II 1D Ex ta IIIC Da

IECEx IECEx BVS 10.0078X

EAC RU C-DE.ГБ05.В.00077

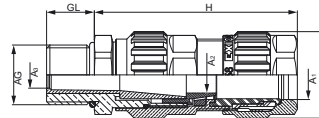
CSA 12.2557737X


AG	Size	A1 mm	A2 mm	GL mm	H max. mm	mm	D mm	Armouring Ø mm			Number
								Clamping ring 1	Clamping ring 2	Clamping ring optional	
M 16 x1,5	20-1	6-11	3-8,1	16	79	22	27	0-0,7	0,7-1,25		1.675.1603.50
M 20 x1,5	20-1	6-11	3-8,1	16	79	22	27	0-0,7	0,7-1,25		1.675.2003.50
M 20 x1,5	20-2	9-13	6-12	16	83,8	24	29	0-0,7	0,7-1,25		1.675.2003.51
M 20 x1,5	20-3	12,5-17,5	9-14	16	91,5	30	35	0-0,7	0,7-1,4		1.675.2003.52
M 25 x1,5	20-3	12,5-17,5	9-14	16	91,5	30	35	0-0,7	0,7-1,4		1.675.2503.51
M 25 x1,5	25	16,9-24	12,5-20,5	16	105,7	36	42	0-0,7	0,9-1,6	0,7-1,4	1.675.2503.50
M 32 x1,5	32	22-32,5	16,9-26	16	107	46	52	0-0,7	1,3-2,0	0,7-1,4	1.675.3203.50
M 40 x1,5	40	28-41	22-33	16	120	55	64	0-0,7	1,3-2,0	0,7-1,4	1.675.4003.50
M 50 x1,5	50	36-39,5	28,9-44,4	16	144,5	65	73	0-1,0	1,5-2,5	1,0-2,0	1.675.5003.50
M 63 x1,5	63	46-64	39,9-56,3	16	157,5	80	90	0-1,0	1,5-2,5	1,0-2,0	1.675.6303.50
M 75 x1,5	75	57-78	50,5-68,2	16	167	95	107	0-1,0	1,5-2,5	1,0-2,0	1.675.7503.50
NPT 3/8"	20-1	6-11	3-8,1	16	79	22	27	0-0,7	0,7-1,25		1.675.3803.70
NPT 1/2"	20-2	9-13	6-12	20	83,8	24	29	0-0,7	0,7-1,25		1.675.1203.70
NPT 1/2"	20-3	12,5-17,5	9-14	20	91,5	30	35	0-0,7	0,7-1,4		1.675.1203.71
NPT 3/4"	25	16,9-24	12,5-20,5	20,5	105,7	36	42	0-0,7	0,9-1,6	0,7-1,4	1.675.3403.70
NPT 1"	32	22-32,5	16,9-26	25	107	46	52	0-0,7	1,3-2,0	0,7-1,4	1.675.1003.70
NPT 1 1/4"	40	28-39,5	22-33	26	120	55	64	0-0,7	1,3-2,0	0,7-1,4	1.675.5403.70
NPT 1 1/2"	40	28-39,5	22-33	26,5	120	55	64	0-0,7	1,3-2,0	0,7-1,4	1.675.6403.70
NPT 2"	50	36-49	28,9-44,4	27	144,5	65	73	0-1,0	1,5-2,5	1,0-2,0	1.675.2003.70
NPT 2 1/2"	63	46-64	39,9-56,3	40	157,5	80	90	0-1,0	1,5-2,5	1,0-2,0	1.675.5203.70
NPT 3"	75	57-78	50,5-68,2	41,5	167	95	107	0-1,0	1,5-2,5	1,0-2,0	1.675.3003.70



Material	Brass
Seal	Silicone, VMQ
Clamping insert	PA 6
Armouring	Metallic Armour or Screen
Compound	Two-component epoxy compound
Protection	IP 66, 67 and 68 (5 bar)
Operating Temperature	-60 °C – 85 °C (-76 °F – 185 °F)

// INOX on request



AG	Size	∅ _{A1} mm	∅ _{A2} mm	∅ _{A3} mm	GL mm	H max. mm	mm	D mm	Max. No. cores	Armouring Ø mm		Number
										Clamping ring 1	Clamping ring 2	
M 16 x1,5	20-1	6-12	8,2	7,9	16	68,5	22	27	8	0-0,7	0,7-1,25	1.606.1600.50
M 20 x1,5	20-1	6-12	8,2	7,9	16	68,5	22	27	8	0-0,7	0,7-1,25	1.606.2000.50
M 20 x1,5	20-2	9-16	12	8,8	16	74,3	24	29	10	0-0,7	0,7-1,25	1.606.2000.51
M 20 x1,5	20-3	12,5-20,5	14	11,5	16	80,5	30	35	15	0-0,7	0,7-1,4	1.606.2000.52
M 25 x1,5	20-3	12,5-20,5	14	11,5	16	80,5	30	35	15	0-0,7	0,7-1,4	1.606.2500.51
M 25 x1,5	25	16,9-26	20	16,4	16	91	36	42	25	0-0,7	0,9-1,6	1.606.2500.50
M 32 x1,5	32	22-32,5	26	21,4	16	96	46	52	45	0-0,7	1,3-2,0	1.606.3200.50
M 40 x1,5	40	28-41	33,2	27,6	16	107	55	64	70	0-0,7	1,3-2,0	1.606.4000.50
M 50 x1,5	50	36-52,6	44,2	37,5	16	131,5	65	73	85	0-1,0	1,5-2,5	1.606.5000.50
M 63 x1,5	63	46-65,3	56,2	47,3	16	144,5	80	90	120	0-1,0	1,5-2,5	1.606.6300.50
M 75 x1,5	75	57-78	68,2	58,0	16	154	95	107	150	0-1,0	1,5-2,5	1.606.7500.50
NPT 3/8"	20-1	6-12	8,2	7,9	16	64	22	27	8	0-0,7	0,7-1,25	1.606.3800.70
NPT 1/2"	20-2	9-12	12	8,8	20	68	24	29	10	0-0,7	0,7-1,25	1.606.1200.70
NPT 1/2"	20-3	12,5-20,5	14	11,5	20	73	30	35	15	0-0,7	0,7-1,4	1.606.1200.71
NPT 3/4"	25	16,9-26	20	16,4	20,5	81,3	36	42	25	0-0,7	0,9-1,6	1.606.3400.70
NPT 1"	32	22-32,5	26	21,4	25	85,5	46	52	45	0-0,7	1,3-2,0	1.606.1000.70
NPT 1 1/4"	40	28-41	33,2	27,6	26	94,4	55	64	70	0-0,7	1,3-2,0	1.606.5400.70
NPT 1 1/2"	40	28-41	33,2	27,6	26,5	94,4	55	64	70	0-0,7	1,3-2,0	1.606.6400.70
NPT 2"	50	36-52,6	44,2	37,5	27	116,3	65	73	85	0-1,0	1,5-2,5	1.606.2000.70
NPT 2 1/2"	63	46-65,3	56,2	47,3	40	127,6	80	90	120	0-1,0	1,5-2,5	1.606.5200.70
NPT 3"	75	57-78	68,2	58,0	41,5	136,5	95	107	150	0-1,0	1,5-2,5	1.606.3000.70

CABLE GLANDS FOR „HAZARDOUS AREAS“

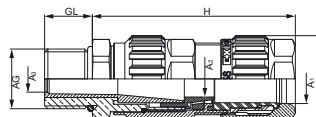
EXIOS⁺ BARRIER

Metr., NPT



Material	Nickel plated brass
Seal	Silicone, VMQ
Clamping insert	PA 6
Armouring	Metallic Armour or Screen
Compound	Two-component epoxy compound
Protection	IP 66, 67 and 68 (5 bar)
Operating Temperature	-60 °C – 85 °C (-76 °F – 185 °F)

// INOX on request



AG	Size	∅ A1 mm	∅ A2 mm	∅ A3 mm	GL mm	H max. mm	mm	D mm	Max. No. cores	Armouring ∅ mm		Number
										Clamping ring 1	Clamping ring 2	
M 16 x1,5	20-1	6-12	8,2	7,9	16	68,5	22	27	8	0-0,7	0,7-1,25	1.606.1603.50
M 20 x1,5	20-1	6-12	8,2	7,9	16	68,5	22	27	8	0-0,7	0,7-1,25	1.606.2003.50
M 20 x1,5	20-2	9-16	12	8,8	16	74,3	24	29	10	0-0,7	0,7-1,25	1.606.2003.51
M 20 x1,5	20-3	12,5-20,5	14	11,5	16	80,5	30	35	15	0-0,7	0,7-1,4	1.606.2003.52
M 25 x1,5	20-3	12,5-20,5	14	11,5	16	80,5	30	35	15	0-0,7	0,7-1,4	1.606.2503.51
M 25 x1,5	25	16,9-26	20	16,4	16	91	36	42	25	0-0,7	0,9-1,6	1.606.2503.50
M 32 x1,5	32	22-32,5	26	21,4	16	96	46	52	45	0-0,7	1,3-2,0	1.606.3203.50
M 40 x1,5	40	28-41	33,2	27,6	16	107	55	64	70	0-0,7	1,3-2,0	1.606.4003.50
M 50 x1,5	50	36-52,6	44,2	37,5	16	131,5	65	73	85	0-1,0	1,5-2,5	1.606.5003.50
M 63 x1,5	63	46-65,3	56,2	47,3	16	144,5	80	90	120	0-1,0	1,5-2,5	1.606.6303.50
M 75 x1,5	75	57-78	68,2	58,0	16	154	95	107	150	0-1,0	1,5-2,5	1.606.7503.50
NPT 3/8"	20-1	6-12	8,2	7,9	16	64	22	27	8	0-0,7	0,7-1,25	1.606.3803.70
NPT 1/2"	20-2	9-12	12	8,8	20	68	24	29	10	0-0,7	0,7-1,25	1.606.1203.70
NPT 1/2"	20-3	12,5-20,5	14	11,5	20	73	30	35	15	0-0,7	0,7-1,4	1.606.1203.71
NPT 3/4"	25	16,9-26	20	16,4	20,5	81,3	36	42	25	0-0,7	0,9-1,6	1.606.3403.70
NPT 1"	32	22-32,5	26	21,4	25	85,5	46	52	45	0-0,7	1,3-2,0	1.606.1003.70
NPT 1 1/4"	40	28-41	33,2	27,6	26	94,4	55	64	70	0-0,7	1,3-2,0	1.606.5403.70
NPT 1 1/2"	40	28-41	33,2	27,6	26,5	94,4	55	64	70	0-0,7	1,3-2,0	1.606.6403.70
NPT 2"	50	36-52,6	44,2	37,5	27	116,3	65	73	85	0-1,0	1,5-2,5	1.606.2003.70
NPT 2 1/2"	63	46-65,3	56,2	47,3	40	127,6	80	90	120	0-1,0	1,5-2,5	1.606.5203.70
NPT 3"	75	57-78	68,2	58,0	41,5	136,5	95	107	150	0-1,0	1,5-2,5	1.606.3003.70

Industrial cable glands

EXIOS

Cable glands for hazardous areas

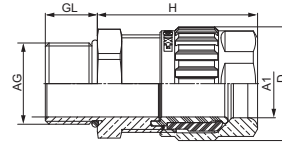
CABLE GLANDS FOR „HAZARDOUS AREAS“

EXIOS⁺ A2F



Material	Brass
Seal	Silicone, VMQ
Clamping insert	PA 6
Protection	IP 66, 67 and 68 (5 bar)
Operating Temperature	-60 °C – 105 °C (-76 °F – 221 °F)

// INOX on request



AG	Size	∅k A1 mm	GL mm	H max. mm	∅ mm	D mm	Number	Number Nickel plated brass
M 16 x 1,5	20-1	6-12	16	36,5	22	27	1.608.1600.50	1.608.1603.50
M 20 x 1,5	20-1	6-12	16	36,5	22	27	1.608.2000.50	1.608.2003.50
M 20 x 1,5	20-2	9-16	16	41	24	29	1.608.2000.51	1.608.2003.51
M 25 x 1,5	20-3	12,5-20,5	16	48	30	35	1.608.2500.50	1.608.2503.50
M 32 x 1,5	25	16,9-26	16	48,5	36	42	1.608.3200.50	1.608.3203.50
M 40 x 1,5	32	22-33	16	54	46	52	1.608.4000.50	1.608.4003.50
M 50 x 1,5	40	28-41	16	60	55	64	1.608.5000.50	1.608.5003.50
M 63 x 1,5	50	40-52,6	16	67	65	73	1.608.6300.50	1.608.6303.50
M 75 x 1,5	63	51-65,3	16	72	80	90	1.608.7500.50	1.608.7503.50
NPT 3/8"	20-1	6-12	16	35,6	22	27	1.608.3800.70	1.608.3803.70
NPT 1/2"	20-1	6-12	20	35,6	22/24	27	1.608.1200.70	1.608.1203.70
NPT 1/2"	20-2	9-16	20	39,7	24	29	1.608.1200.71	1.608.1203.71
NPT 3/4"	20-3	12,5-20,5	20,5	47,5	30	35	1.608.3400.70	1.608.3403.70
NPT 1"	25	16,9-26	25	47,8	36	42	1.608.1000.70	1.608.1003.70
NPT 1 1/4"	32	22-33	26	51,1	46	52	1.608.5400.70	1.608.5403.70
NPT 1 1/2"	40	28-41	26,5	56,8	55	64	1.608.6400.70	1.608.6403.70
NPT 2"	50	40-52,6	27	65,4	65	73	1.608.2000.70	1.608.2003.70
NPT 2 1/2"	63	51-61	40	70,3	80	90	1.608.5200.70	1.608.5203.70
NPT 3"	75	62-78	41,5	76,2	95	107	1.608.3000.70	1.608.3003.70

Red Fibre Washer

Metr., NPT



GFK thread seal

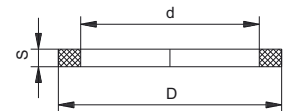
Material Fiber reinforced Nylon

Operating Temperature -60 °C – 105 °C (113 – 76 °F – 221 °F)

EAC



RoHS



Fits the following sizes	D	d	S	Number
M 16	24	16,1	1,5	1.326.1600.50
M 20	28,5	20,5	1,5	1.326.2000.50
M 25	36,5	25,5	1,6	1.326.2500.50
M 32	42,5	32,5	1,6	1.326.3200.50
M 40	51,5	40	1,5	1.326.4000.50
M 50	61,5	51	1,6	1.326.5000.50
M 63	76	63,5	1,6	1.326.6300.50
M 75	87,5	75,5	1,8	1.326.7500.50

Fits the following sizes	D	d	S	Number
3/8"	25,5	17,5	1,5	1.326.3800.70
1/2"	30	22	1,5	1.326.1200.70
3/4"	33,5	26,5	1,5	1.326.3400.70
1"	42,5	34	1,6	1.326.1000.70
1 1/4"	52	42,5	1,6	1.326.5400.70
1 1/2"	58,7	50	1,5	1.326.6400.70
2"	69,5	60,8	1,6	1.326.2000.70
2 1/2"	83	73,8	1,5	1.326.5200.70
3"	114,5	91,5	1,8	1.326.3000.70

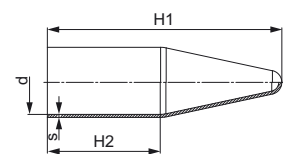
PVC Shroud



Material PVC

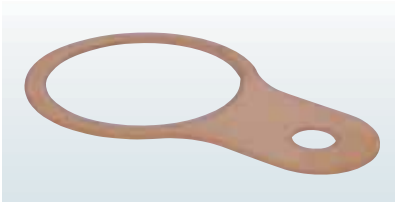
EAC

RoHS

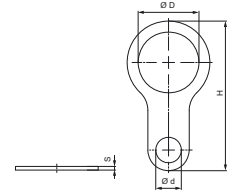


Fits the following sizes	H1 mm	H2 mm	d mm	Number
20 – 1	115	60	26	1.802.2000.50
20 – 2	125	70	28	1.802.2000.51
20 – 3	130	65	34	1.802.2000.52
25	160	90	42	1.802.2500.50
32	165	95	51	1.802.3200.50
40	200	110	63	1.802.4000.50
50	210	115	72	1.802.5000.50
63	245	140	88	1.802.6300.50
75	245	140	108	1.802.7500.50

Earthtag Metr., NPT



Material Brass



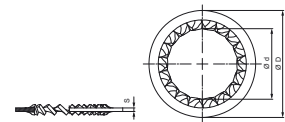
Size	D	d	s	H	Number
M 16	16	6,5	1,5	50,5	1.022.1600.50
M 20	21	7	1,5	54	1.022.2000.50
M 25	25,5	10,5	1,5	61,5	1.022.2500.50
M 32	33,5	12,5	1,5	77	1.022.3200.50
M 40	40,5	13,5	1,5	86,5	1.022.4000.50
M 50	51	13,5	1,5	111	1.022.5000.50
M 63	64	1,5	1,5	128,5	1.022.6300.50
M 75	75,5	13	1,5	138	1.022.7500.50

Size	D	d	s	H	Number
1/2"	21,5	7	1,6	53,5	1.022.1200.70
3/4"	27	10,5	1,6	61,5	1.022.3400.70
1"	35	12,5	1,6	73	1.022.1000.70
1 1/4"	43,5	13,5	1,6	87	1.022.5400.70
1 1/2"	51	12,5	1,6	112	1.022.6400.70
2"	61	13,5	1,6	125,5	1.022.2000.70
2 1/2"	76	13,5	1,6	138	1.022.5200.70

Serrated Washer Metr., NPT



Material INOX 1.4401



Size	D	d	s	Number
M 16	26,5	17	1,5	1.329.1600.50
M 20	33,5	21,5	1,5	1.329.2000.50
M 25	39	26	1,5	1.329.2500.50
M 32	48	30,5	1,5	1.329.3200.50
M 40	59,5	40,5	1,5	1.329.4000.50
M 50	71	51,5	1,5	1.329.5000.50
M 63	87	64	1,5	1.329.6300.50
M 75	102,5	76,5	1,5	1.329.7500.50

Size	D	d	s	Number
3/8"	30	19,5	1,5	1.329.3800.70
1/2"	39	23,5	1,5	1.329.1200.70
3/4"	42	29,5	1,5	1.329.3400.70
1"	49,5	35	1,5	1.329.1000.70
1 1/4"	59,5	44	1,5	1.329.5400.70
1 1/2"	71	51,5	1,5	1.329.6400.70
2"	86,6	61,5	1,5	1.329.2000.70
2 1/2"	102,5	76,5	1,5	1.329.5200.70

CABLE GLANDS FOR

„HAZARDOUS AREAS“

HSK-Ex e cable glands

Cable glands of the HSK-Ex e-series have been designed for standard applications in hazardous locations type „e“ according to EN 60079-0 and EN 60079-7.

You can find in this chapter:

HSK-Ex e cable gland series Ex e proofed (for increased safety)

- // HSK-K-Ex-Active cable gland made of polyamide according to the latest Ex e standards
- // HSK-M-Ex cable glands made of nickel plated brass for different temperature ranges
- // HSK-INOX-Ex cable glands made of stainless steel for different temperature ranges
- // HSK-PVDF-Ex cable glands made of metal for higher temperatures

We provide variable clamping ranges, thread lengths, thread types plus different sealing materials and temperature ranges. Our range is completed by global certifications.

For any further question please do not hesitate to contact us. We look forward to develop solutions together with you.

You profit of our vast knowledge in development, engineering and production technology





Material	fiberglass reinforced polyamide VO according to UL 94
Seal	Buna-N
O-Ring	Buna-N
Protection	IP 68 – 10 bar within the specified clamping range
Operating Temperature	-20 °C – 85 °C (-4 °F – 185 °F)
Colors	black (RAL 9005) / blue-black (RAL 5012)

// FKM and VMQ O-Ring upon request



II 2G Ex eb IIC Gb
II TD Ex ta IIIC Da

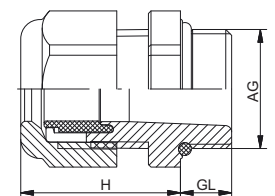


Class I Div 2 Groups A, B, C, D
Class II Div 1 Groups E, F, G

For the [international certificates](#) please see page 154 / 155 or our homepage www.hummel.com.



in black color



AG	∅ mm	mm	H mm	GL mm	Number black	Number blue-black	GL mm	Number black elongated	Number blue-black elongated
M 12 x 1,5	3–6,5	15	21	8	1.292.1201.50	1.292.1202.50	15	1.292.1201.30	1.292.1202.30
M 12 x 1,5	2–5	15	21	8	1.292.1201.51	1.292.1202.51	15	1.292.1201.31	1.292.1202.31
M 16 x 1,5	4–8	19	22	8	1.292.1601.50	1.292.1602.50	15	1.292.1601.30	1.292.1602.30
M 16 x 1,5	3–6	19	22	8	1.292.1601.51	1.292.1602.51	15	1.292.1601.31	1.292.1602.31
M 16 x 1,5	5–10	22	25	8	1.292.1611.50	1.292.1612.50	15	1.292.1611.30	1.292.1612.30
M 16 x 1,5	3–7	22	25	8	1.292.1611.51	1.292.1612.51	15	1.292.1611.31	1.292.1612.31
M 20 x 1,5	6–12	24	27	9	1.292.2001.50	1.292.2002.50	15	1.292.2001.30	1.292.2002.30
M 20 x 1,5	5–9	24	27	9	1.292.2001.51	1.292.2002.51	15	1.292.2001.31	1.292.2002.31
M 20 x 1,5	10–14	27	28	9	1.292.2016.50	1.292.2017.50	15	1.292.2016.30	1.292.2017.30
M 20 x 1,5	7–12	27	28	9	1.292.2016.51	1.292.2017.51	15	1.292.2016.31	1.292.2017.31
M 25 x 1,5	13–18	33	31	11	1.292.2501.50	1.292.2502.50	15	1.292.2501.30	1.292.2502.30
M 25 x 1,5	9–16	33	31	11	1.292.2501.51	1.292.2502.51	15	1.292.2501.31	1.292.2502.31
M 32 x 1,5	18–25	42	39	11	1.292.3201.50	1.292.3202.50	15	1.292.3201.30	1.292.3202.30
M 32 x 1,5	13–20	42	39	11	1.292.3201.51	1.292.3202.51	15	1.292.3201.31	1.292.3202.31
M 40 x 1,5	22–32	53	48	13	1.292.4001.50	1.292.4002.50	18	1.292.4001.30	1.292.4002.30
M 40 x 1,5	20–26	53	48	13	1.292.4001.51	1.292.4002.51	18	1.292.4001.31	1.292.4002.31
M 50 x 1,5	32–38	60	49	13	1.292.5001.50	1.292.5002.50	18	1.292.5001.30	1.292.5002.30
M 50 x 1,5	25–31	60	49	13	1.292.5001.51	1.292.5002.51	18	1.292.5001.31	1.292.5002.31
M 63 x 1,5	37–44	65 / 68	49	14	1.292.6301.50	1.292.6302.50	18	1.292.6301.30	1.292.6302.30
M 63 x 1,5	29–35	65 / 68	49	14	1.292.6301.51	1.292.6302.51	18	1.292.6301.31	1.292.6302.31

HSK-K-Ex-Active

NPT



Material	fibreglass reinforced polyamide V0 according to UL 94
Seal	Buna-N
O-Ring	Buna-N
Protection	IP 68 – 10 bar within the specified clamping range
Operating Temperature	-20 °C – 85 °C (-4 °F – 185 °F)
Colors	black (RAL 9005) / blue-black (RAL 5012)

// FKM and VMQ O-Ring upon request



II 2G Ex eb IIC Gb
II 1D Ex ta IIIC Da

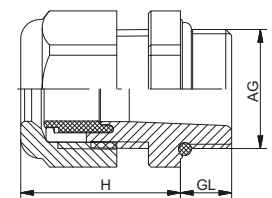


Class I Div 2 Groups A, B, C, D
Class II Div 1 Groups E, F, G

For the [international certificates](#) please see page 154 / 155 or our homepage www.hummel.com.



in black color



AG	∅k mm	mm	H mm	GL mm	Number black	Number blue-black
NPT 3/8"	4–8	19 / 22	22	15	1.292.3801.70	1.292.3802.70
NPT 3/8"	3–6	19 / 22	22	15	1.292.3801.71	1.292.3802.71
NPT 1/2"	6–12	24	27	13	1.292.1201.70	1.292.1202.70
NPT 1/2"	5–9	24	27	13	1.292.1201.71	1.292.1202.71
NPT 1/2" (16)	10–14	27	28	13	1.292.1216.70	1.292.1217.70
NPT 1/2" (16)	7–12	27	28	13	1.292.1216.71	1.292.1217.71
NPT 3/4"	13–18	33	31	14	1.292.3401.70	1.292.3402.70
NPT 3/4"	9–16	33	31	14	1.292.3401.71	1.292.3402.71
NPT 1"	18–25	42	39	19	1.292.1001.70	1.292.1002.70
NPT 1"	13–20	42	39	19	1.292.1001.71	1.292.1002.71
NPT 1 1/4"	18–25	42 / 46	39	16	1.292.5401.70	1.292.5402.70
NPT 1 1/4"	13–20	42 / 46	39	16	1.292.5401.71	1.292.5402.71
NPT 1 1/2"	22–32	53	48	20	1.292.6401.70	1.292.6402.70
NPT 1 1/2"	20–26	53	48	20	1.292.6401.71	1.292.6402.71

HSK-Ex e CABLE GLANDS

HSK-K-Multi-Ex-Active

Metr., NPT



Material	fibreglass reinforced polyamide VO according to UL 94
Seal	Elastomer
O-Ring	Buna-N
Protection	IP 68 – 10 bar within the specified clamping range
Operating Temperature	-20 °C – 85 °C (-4 °F – 185 °F)
Colors	black (RAL 9005) / blue-black (RAL 5012)

- // FKM and VMQ O-Ring upon request
- // The shown inserts are samples, more inserts upon request

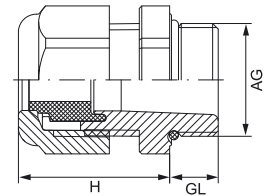
Installation Instructions: Cable diameter should not be less than 20% of hole diameter and the difference between cable diameter and hole should never exceed 1 mm (.04").



ATEX II 2G Ex eb IIC Gb
II TD Ex ta IIIC Da

ULF1 Class I Div 2 Groups A, B, C, D
Class II Div 1 Groups E, F, G

For the **international certificates** please see page 154 / 155 or our homepage www.hummel.com.



AG	mm	H	GL	Number of holes x d	Number black	Number blue-black	Number of holes x d	Number black elongated	Number blue-black elongated
M 16 x 1,5	19	22	8	4 x 1,4	1.581.1600.51	1.581.1600.52	2 x 3	1.581.1601.51	1.581.1601.52
M 20 x 1,5	24	27	9	6 x 3	1.581.2001.51	1.581.2001.52	2 x 5	1.581.2003.51	1.581.2003.52
M 25 x 1,5	33	31	11	4 x 6	1.581.2500.51	1.581.2500.52	3 x 7	1.581.2501.51	1.581.2501.52
M 32 x 1,5	42	39	11	6 x 6,5	1.581.3200.51	1.581.3200.52	4 x 9	1.581.3201.51	1.581.3201.52
M 40 x 1,5	53	48	13	7 x 9	1.581.4001.51	1.581.4001.52	2 x 15	1.581.4003.51	1.581.4003.52
M 50 x 1,5	60	49	13		1.581.5099.51	1.581.5099.52			
M 63 x 1,5	65 / 68	49	14	6 x 12	1.581.6301.51	1.581.6301.52	3 x 18	1.581.6302.51	1.581.6302.52
NPT 3/8"	19 / 22	22	15	4 x 1,4	1.581.3800.71	1.581.3800.72	2 x 3	1.581.3801.71	1.581.3801.72
NPT 1/2"	24	27	13	3 x 4	1.581.1202.71	1.581.1202.72	2 x 5	1.581.1203.71	1.581.1203.72
NPT 1/2" (16)	27	28	13	6 x 4	1.581.1220.71	1.581.1220.72	2 x 6	1.581.1221.71	1.581.1221.72
NPT 3/4"	33	31	14	4 x 6	1.581.3400.71	1.581.3400.72	3 x 7	1.581.3401.71	1.581.3401.72
NPT 1"	42	39	19	6 x 6,5	1.581.1000.71	1.581.1000.72	4 x 9	1.581.1001.71	1.581.1001.72
NPT 1 1/4"	42 / 46	39	16		1.581.5499.71	1.581.5499.72			
NPT 1 1/2"	53	48	20	5 x 9	1.581.6400.71	1.581.6400.72	7 x 9	1.581.6401.71	1.581.6401.72

HSK-K-FLAKA-Ex-Active

Metr., NPT



Material	fibreglass reinforced polyamide V0 according to UL 94
Seal	Elastomer
O-Ring	Buna-N
Protection	IP 68 – 10 bar within the specified clamping range
Operating Temperature	-20 °C – 85 °C (-4 °F – 185 °F)
Colors	black (RAL 9005) / blue-black (RAL 5012)

- // FKM and VMQ O-Ring upon request
- // The shown inserts are samples, more inserts upon request

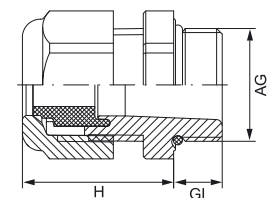
Installation Instructions: The clamping range of the cable used may not deviate from the manufacturer-specified minimum values by more than 1 mm in length and 1 mm in width. The geometries of the cable and the insert hole must be compatible (semi-circular or straight at the sides).



ATEX II 2G Ex eb IIC Gb
II 1D Ex ta IIIC Da

UL Class I Div 2 Groups A, B, C, D
Class II Div 1 Groups E, F, G

For the **international certificates** please see page 154 / 155 or our homepage www.hummel.com.



AG	mm	H mm	GL mm	Dimensions w x h mm	Number black	Number blue-black	Dimensions w x h mm	Number black	Number blue-black
M 20 x 1,5	27	28	9	12 x 7	1.582.2017.51	1.582.2017.52	14 x 6	1.582.2018.51	1.582.2018.52
M 25 x 1,5	33	31	11	14 x 6	1.582.2500.51	1.582.2500.52	14,5 x 7,2	1.582.2501.51	1.582.2501.52
M 32 x 1,5	42	39	11	22 x 8	1.582.3200.51	1.582.3200.52			
M 40 x 1,5	53	48	13	28,5 x 10	1.582.4000.51	1.582.4000.52	29 x 5,5	1.582.4001.51	1.582.4001.52
M 40 x 1,5	53	48	13	30,5 x 12	1.582.4002.51	1.582.4002.52	31 x 7,5	1.582.4003.51	1.582.4003.52
M 50 x 1,5	60	49	13	33,5 x 11,5	1.582.5000.51	1.582.5000.52			
NPT 1/2" (16)	27	28	13	12 x 7	1.582.1217.71	1.582.1217.72	14x 6	1.582.1218.71	1.582.1218.72
NPT 3/4"	33	31	14	14 x 6	1.582.3400.71	1.582.3400.72			
NPT 1"	42	39	19	22 x 8	1.582.1000.71	1.582.1000.72			
NPT 1 1/4"	42 / 46	39	16	22 x 8	1.582.5400.71	1.582.5400.72			
NPT 1 1/2"	53	48	16	28,5 x 10	1.582.6400.71	1.582.6400.72	29 x 5,5	1.582.6401.71	1.582.6401.72
NPT 1 1/2"	53	48	20	30,5 x 12	1.582.6402.71	1.582.6402.72	31 x 7,5	1.582.6403.71	1.582.6403.72

HSK-Ex e CABLE GLANDS

HSK-M-Ex / HSK-M-PVDF-Ex

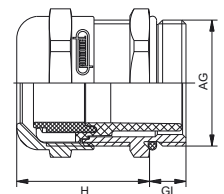
Metr.



Material	Nickel plated brass
Clamping insert	Polyamide / PVDF
Seal	Buna-N / FKM
O-Ring	Buna-N / FKM
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F) (PA) -60 °C – 95 °C (-76 °F – 203 °F) (PA) / -20 °C – 130 °C (-4 °F – 266 °F) (PVDF)



For the [international certificates](#) please see page 154 / 155 or our homepage www.hummel.com.



AG	∅ _k mm	GL mm	H mm	∅ _h mm	Number HSK-M-Ex -20 °C – 95 °C	Number HSK-M-Ex -60 °C – 95 °C	Number HSK-M-PVDF-Ex -20 °C – 130 °C
M 12 x 1,5	3–6,5	6,5	19	14	1.610.1200.50	1.640.1200.50	1.660.1200.50
M 12 x 1,5	2–5	6,5	19	14	1.610.1200.51	1.640.1200.51	1.660.1200.51
M 16 x 1,5	4–8	6	21	17 / 19	1.610.1600.50	1.640.1600.50	1.660.1600.50
M 16 x 1,5	2–6	6	21	17 / 19	1.610.1600.51	1.640.1600.51	1.660.1600.51
M 16 x 1,5	6–10	6	22	20	1.610.1611.50	1.640.1611.50	1.660.1611.50
M 16 x 1,5	3–7	6	22	20	1.610.1611.51	1.640.1611.51	1.660.1611.51
M 20 x 1,5	7–12	6	23	22	1.610.2000.50	1.640.2000.50	1.660.2000.50
M 20 x 1,5	5–9	6	23	22	1.610.2000.51	1.640.2000.51	1.660.2000.51
M 20 x 1,5	10–14	6	24	24	1.610.2016.50	1.640.2016.50	1.660.2016.50
M 20 x 1,5	7–12	6	24	24	1.610.2016.51	1.640.2016.51	1.660.2016.51
M 25 x 1,5	14–18	7	26	30	1.610.2500.50	1.640.2500.50	1.660.2500.50
M 25 x 1,5	10–16	7	26	30	1.610.2500.51	1.640.2500.51	1.660.2500.51
M 32 x 1,5	20–25	8	31	40	1.610.3200.50	1.640.3200.50	1.660.3200.50
M 32 x 1,5	13–20	8	31	40	1.610.3200.51	1.640.3200.51	1.660.3200.51
M 40 x 1,5	22–32	8	37	50	1.610.4000.50	1.640.4000.50	1.660.4000.50
M 40 x 1,5	20–26	8	37	50	1.610.4000.51	1.640.4000.51	1.660.4000.51
M 50 x 1,5	32–38	9	37	57	1.610.5000.50	1.640.5000.50	
M 50 x 1,5	25–31	9	37	57	1.610.5000.51	1.640.5000.51	
M 63 x 1,5	37–44	10	38	64 / 68	1.610.6300.50	1.640.6300.50	
M 63 x 1,5	29–35	10	38	64 / 68	1.610.6300.51	1.640.6300.51	

HSK-M-Ex / HSK-M-PVDF-Ex

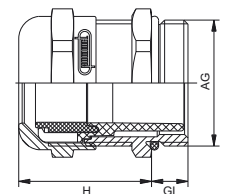
Metr.-elongated



Material	Nickel plated brass
Clamping insert	Polyamide / PVDF
Seal	Buna-N / FKM
O-Ring	Buna-N / FKM
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F) (PA) -60 °C – 95 °C (-76 °F – 203 °F) (PA) / -20 °C – 130 °C (-4 °F – 266 °F) (PVDF)



For the **international certificates** please see page 154 / 155 or our homepage www.hummel.com.



AG	∅k mm	GL mm	H mm	⌀ mm	Number HSK-M-Ex -20 °C – 95 °C	Number HSK-M-Ex -60 °C – 95 °C	Number HSK-M-PVDF-Ex -20 °C – 130 °C
M 12 x 1,5	3–6,5	10	19	14	1.610.1200.30	1.640.1200.30	1.660.1200.30
M 12 x 1,5	2–5	10	19	14	1.610.1200.31	1.640.1200.31	1.660.1200.31
M 16 x 1,5	4–8	10	21	17 / 19	1.610.1600.30	1.640.1600.30	1.660.1600.30
M 16 x 1,5	2–6	10	21	17 / 19	1.610.1600.31	1.640.1600.31	1.660.1600.31
M 16 x 1,5	6–10	10	22	20	1.610.1611.30	1.640.1611.30	1.660.1611.30
M 16 x 1,5	3–7	10	22	20	1.610.1611.31	1.640.1611.31	1.660.1611.31
M 20 x 1,5	7–12	10	23	22	1.610.2000.30	1.640.2000.30	1.660.2000.30
M 20 x 1,5	5–9	10	23	22	1.610.2000.31	1.640.2000.31	1.660.2000.31
M 20 x 1,5	10–14	10	24	24	1.610.2016.30	1.640.2016.30	1.660.2016.30
M 20 x 1,5	7–12	10	24	24	1.610.2016.31	1.640.2016.31	1.660.2016.31
M 25 x 1,5	14–18	12	26	30	1.610.2500.30	1.640.2500.30	1.660.2500.30
M 25 x 1,5	10–16	12	26	30	1.610.2500.31	1.640.2500.31	1.660.2500.31
M 32 x 1,5	20–25	12	31	40	1.610.3200.30	1.640.3200.30	1.660.3200.30
M 32 x 1,5	13–20	12	31	40	1.610.3200.31	1.640.3200.31	1.660.3200.31
M 40 x 1,5	22–32	15	37	50	1.610.4000.30	1.640.4000.30	1.660.4000.30
M 40 x 1,5	20–26	15	37	50	1.610.4000.31	1.640.4000.31	1.660.4000.31
M 50 x 1,5	32–38	15	37	57	1.610.5000.30	1.640.5000.30	
M 50 x 1,5	25–31	15	37	57	1.610.5000.31	1.640.5000.31	
M 63 x 1,5	37–44	15	38	64 / 68	1.610.6300.30	1.640.6300.30	
M 63 x 1,5	29–35	15	38	64 / 68	1.610.6300.31	1.640.6300.31	

HSK-Ex e CABLE GLANDS

HSK-M-Ex / HSK-M-PVDF-Ex

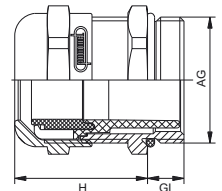
PG, NPT



Material	Nickel plated brass
Clamping insert	Polyamide / PVDF
Seal	Buna-N / FKM
O-Ring	Buna-N / FKM
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F) (PA) -60 °C – 95 °C (-76 °F – 203 °F) (PA) / -20 °C – 130 °C (-4 °F – 266 °F) (PVDF)



For the **international certificates** please see page 154 / 155 or our homepage www.hummel.com.



AG	∅ _k mm	GL mm	H mm	∅ _h mm	Number HSK-M-Ex -20 °C – 95 °C	Number HSK-M-Ex -60 °C – 95 °C	Number HSK-M-PVDF-Ex -20 °C – 130 °C
PG 7	3–6,5	5	19	14	1.610.0700.01	1.640.0700.01	1.660.0700.01
PG 7	2–5	5	19	14	1.610.0700.15	1.640.0700.15	1.660.0700.15
PG 9	4–8	6	21	17	1.610.0900.01	1.640.0900.01	1.660.0900.01
PG 9	2–6	6	21	17	1.610.0900.15	1.640.0900.15	1.660.0900.15
PG 11	6–10	6	22	20	1.610.1100.01	1.640.1100.01	1.660.1100.01
PG 11	3–7	6	22	20	1.610.1100.15	1.640.1100.15	1.660.1100.15
PG 13,5	7–12	6,5	24	22	1.610.1300.01	1.640.1300.01	1.660.1300.01
PG 13,5	5–9	6,5	24	22	1.610.1300.15	1.640.1300.15	1.660.1300.15
PG 16	10–14	6,5	23	24	1.610.1600.01	1.640.1600.01	1.660.1600.01
PG 16	7–12	6,5	23	24	1.610.1600.15	1.640.1600.15	1.660.1600.15
PG 21	14–18	7	24	30	1.610.2100.01	1.640.2100.01	1.660.2100.01
PG 21	10–16	7	24	30	1.610.2100.15	1.640.2100.15	1.660.2100.15
PG 29	20–25	8	29	40	1.610.2900.01	1.640.2900.01	1.660.2900.01
PG 29	13–20	8	29	40	1.610.2900.15	1.640.2900.15	1.660.2900.15
PG 36	22–32	8	35	50	1.610.3600.01	1.640.3600.01	1.660.3600.01
PG 36	20–26	8	35	50	1.610.3600.15	1.640.3600.15	1.660.3600.15
PG 42	32–38	9	37	57	1.610.4200.01	1.640.4200.01	1.660.4200.01
PG 42	25–31	9	37	57	1.610.4200.15	1.640.4200.15	1.660.4200.15
PG 48	37–44	10	38	64	1.610.4800.01	1.640.4800.01	1.660.4800.01
PG 48	29–35	10	38	64	1.610.4800.15	1.640.4800.15	1.660.4800.15
NPT 3/8"	4–8	15	21	17/19	1.610.3800.70	1.640.3800.70	1.660.3800.70
NPT 3/8"	2–6	15	21	17/19	1.610.3800.71	1.640.3800.71	1.660.3800.71
NPT 1/2"	7–12	13	24	22/24	1.610.1200.70	1.640.1200.70	1.660.1200.70
NPT 1/2"	5–9	13	24	22/24	1.610.1200.71	1.640.1200.71	1.660.1200.71
NPT 3/4"	14–18	13	25	30	1.610.3400.70	1.640.3400.70	1.660.3400.70
NPT 3/4"	10–16	13	25	30	1.610.3400.71	1.640.3400.71	1.660.3400.71
NPT 1"	20–25	19	29	40	1.610.1000.70	1.640.1000.70	1.660.1000.70
NPT 1"	13–20	19	29	40	1.610.1000.71	1.640.1000.71	1.660.1000.71

HSK-M-Ex / HSK-M-PVDF-Ex

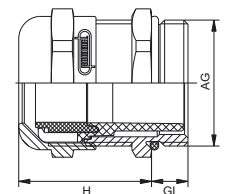
PG-elongated



Material	Nickel plated brass
Clamping insert	Polyamide / PVDF
Seal	Buna-N / FKM
O-Ring	Buna-N / FKM
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F) (PA) -60 °C – 95 °C (-76 °F – 203 °F) (PA) / -20 °C – 130 °C (-4 °F – 266 °F) (PVDF)



For the **international certificates** please see page 154 / 155 or our homepage www.hummel.com.



AG	∅ _k mm	GL mm	H mm	⌀ mm	Number HSK-M-Ex -20 °C – 95 °C	Number HSK-M-Ex -60 °C – 95 °C	Number HSK-M-PVDF-Ex -20 °C – 130 °C
PG 7	3–6,5	10	19	14	1.610.0700.60	1.640.0700.60	1.660.0700.60
PG 7	2–5	10	19	14	1.610.0700.61	1.640.0700.61	1.660.0700.61
PG 9	4–8	10	21	17	1.610.0900.60	1.640.0900.60	1.660.0900.60
PG 9	2–6	10	21	17	1.610.0900.61	1.640.0900.61	1.660.0900.61
PG 11	6–10	10	22	20	1.610.1100.60	1.640.1100.60	1.660.1100.60
PG 11	3–7	10	22	20	1.610.1100.61	1.640.1100.61	1.660.1100.61
PG 13,5	7–12	10	24	22	1.610.1300.60	1.640.1300.60	1.660.1300.60
PG 13,5	5–9	10	24	22	1.610.1300.61	1.640.1300.61	1.660.1300.61
PG 16	10–14	10	23	24	1.610.1600.60	1.640.1600.60	1.660.1600.60
PG 16	7–12	10	23	24	1.610.1600.61	1.640.1600.61	1.660.1600.61
PG 21	14–18	12	24	30	1.610.2100.60	1.640.2100.60	1.660.2100.60
PG 21	10–16	12	24	30	1.610.2100.61	1.640.2100.61	1.660.2100.61
PG 29	20–25	12	29	40	1.610.2900.60	1.640.2900.60	1.660.2900.60
PG 29	13–20	12	29	40	1.610.2900.61	1.640.2900.61	1.660.2900.61
PG 36	22–32	15	35	50	1.610.3600.60	1.640.3600.60	1.660.3600.60
PG 36	20–26	15	35	50	1.610.3600.61	1.640.3600.61	1.660.3600.61
PG 42	32–38	15	37	57	1.610.4200.60	1.640.4200.60	1.660.4200.60
PG 42	25–31	15	37	57	1.610.4200.61	1.640.4200.61	1.660.4200.61
PG 48	37–44	15	38	64	1.610.4800.60	1.640.4800.60	1.660.4800.60
PG 48	29–35	15	38	64	1.610.4800.61	1.640.4800.61	1.660.4800.61

HSK-Ex e CABLE GLANDS

HSK-INOX-Ex / HSK-INOX-PVDF-Ex Metr., PG

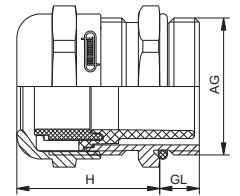


Material	INOX (1.4305)
Clamping insert	Polyamide / PVDF
Seal	Buna-N / FKM
O-Ring	Buna-N / FKM
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F) (PA) -60 °C – 95 °C (-76 °F – 203 °F) (PA) / -20 °C – 130 °C (-4 °F – 266 °F) (PVDF)

// AISI 316L on request



For the international certificates please see page 154 / 155 or our homepage www.hummel.com.



AG	\varnothing mm	GL mm	H mm	\varnothing mm	Number HSK-INOX-Ex -20 °C – 95 °C	Number HSK-INOX-Ex -60 °C – 95 °C	Number HSK-INOX-PVDF-Ex -20 °C – 130 °C
M 12 x 1,5	3–6,5	6,5	19	14	1.612.1200.50	1.642.1200.50	1.662.1200.50
M 12 x 1,5	2–5	6,5	19	14	1.612.1200.51	1.642.1200.51	1.662.1200.51
M 16 x 1,5	5–10	6	22	22	1.612.1600.50	1.642.1600.50	1.662.1600.50
M 16 x 1,5	3–7	6	22	22	1.612.1600.51	1.642.1600.51	1.662.1600.51
M 20 x 1,5	10–14	6	23	24	1.612.2000.50	1.642.2000.50	1.662.2000.50
M 20 x 1,5	7–12	6	23	24	1.612.2000.51	1.642.2000.51	1.662.2000.51
M 25 x 1,5	13–18	7	24	30	1.612.2500.50	1.642.2500.50	1.662.2500.50
M 25 x 1,5	9–16	7	24	30	1.612.2500.51	1.642.2500.51	1.662.2500.51
M 32 x 1,5	20–25	8	29	41	1.612.3200.50	1.642.3200.50	1.662.3200.50
M 32 x 1,5	13–20	8	29	41	1.612.3200.51	1.642.3200.51	1.662.3200.51
M 40 x 1,5	22–32	8	35	50	1.612.4000.50	1.642.4000.50	1.662.4000.50
M 40 x 1,5	20–26	8	35	50	1.612.4000.51	1.642.4000.51	1.662.4000.51

CABLE GLANDS FOR

„HAZARDOUS AREAS“

HSK-EMC-Ex e cable glands

Cable glands of the HSK-EMC-Ex-series have been designed for standard applications in hazardous locations type „e“ according to EN 60079-0 and EN 60079-7.

You can find in this chapter:

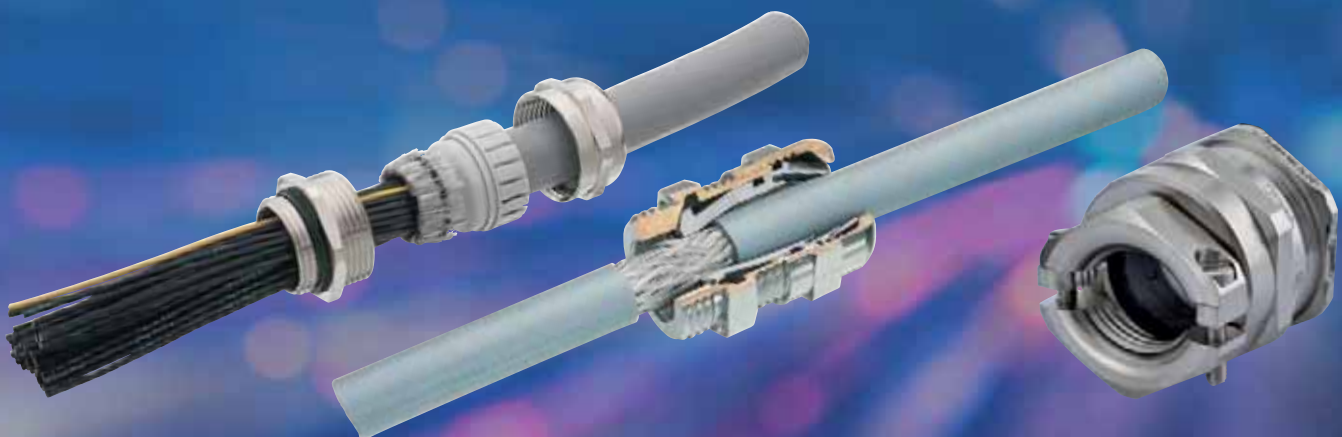
HSK-EMV cable gland series Ex e proofed and 360° EMC connection

- // HSK-M-EMC-D-Ex EMC cable gland with best EMI attenuation for easy installation
- // HSK-M-EMC-Ex standard EMC version with very good screen attenuation
- // HSK-M-PVDF-EMC-Ex high temperature EMC version with very good screen attenuation
- // HSK-INOX-EMC-Ex standard EMC version with additional bending protection, made of stainless steel
- // HSK-PVDF-EMC-Ex standard EMC version for higher temperatures, made of brass nickel plated or stainless steel
- // HSK-MZ-EMC-Ex standard EMC version with very good screen attenuation and additional strain relief

We provide variable clamping ranges, thread lengths, thread types plus different sealing materials and temperature ranges. Our range is completed by global certifications.

For any further question please do not hesitate to contact us. We look forward to develop solutions together with you.

You profit of our vast knowledge in development, engineering and production technology.



HSK-EMC-Ex e CABLE GLANDS

HSK-M-EMC-D-Ex Metr.



For the [international certificates](#) please see page 154 / 155 or our homepage www.hummel.com.

Material	Nickel plated brass
Clamping insert	Metalised Polyamide
Seal / O-Ring	Buna-N
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F) -60 °C – 95 °C (-76 °F – 203 °F)

AG	\varnothing mm	GL mm	H mm	\varnothing mm	Number HSK-M-EMC-D-Ex -20 °C – 95 °C	Number HSK-M-EMC-D-Ex -60 °C – 95 °C
M 16 x 1,5	5–10	6	29	20	1.636.1600.50	1.637.1600.50
M 20 x 1,5	10–14	6	31	24	1.636.2000.50	1.637.2000.50
M 25 x 1,5	13–18	7	38	30	1.636.2500.50	1.637.2500.50
M 32 x 1,5	18–25	8	43	40	1.636.3200.50	1.637.3200.50
M 40 x 1,5	24–32	8	51	50	1.636.4000.50	1.637.4000.50

HSK-M-EMC-D-Ex Metr.-elongated



For the [international certificates](#) please see page 154 / 155 or our homepage www.hummel.com.

Material	Nickel plated brass
Clamping insert	Metalised Polyamide
Seal / O-Ring	Buna-N
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F) -60 °C – 95 °C (-76 °F – 203 °F)

AG	\varnothing mm	GL mm	H mm	\varnothing mm	Number HSK-M-EMC-D-Ex -20 °C – 95 °C	Number HSK-M-EMC-D-Ex -60 °C – 95 °C
M 16 x 1,5	5–10	10	29	20	1.636.1600.30	1.637.1600.30
M 20 x 1,5	10–14	10	31	24	1.636.2000.30	1.637.2000.30
M 25 x 1,5	13–18	12	38	30	1.636.2500.30	1.637.2500.30
M 32 x 1,5	18–25	12	43	40	1.636.3200.30	1.637.3200.30
M 40 x 1,5	24–32	15	51	50	1.636.4000.30	1.637.4000.30

HSK-M-EMC-D-Ex

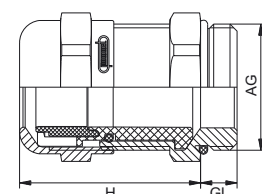
PG



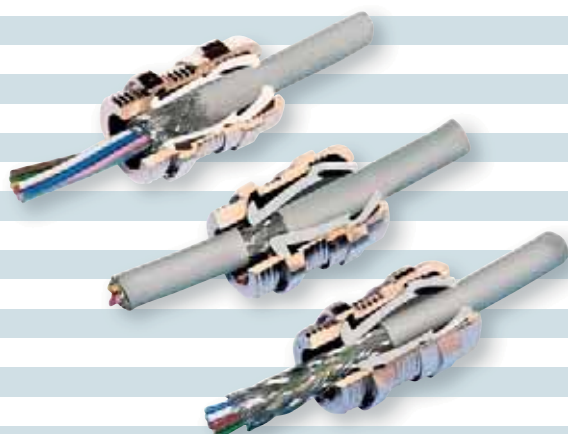
Material	Nickel plated brass
Clamping insert	Metalised Polyamide
Seal	Buna-N
O-Ring	Buna-N
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F) -60 °C – 95 °C (-76 °F – 203 °F)



For the **international certificates** please see page 154 / 155 or our homepage www.hummel.com.



AG	\varnothing mm	GL mm	H mm	\varnothing mm	Number HSK-M-EMC-D-Ex -20 °C – 95 °C	Number HSK-M-EMC-D-Ex -60 °C – 95 °C
PG 11	5–10	6	29	20	1.636.1100.01	1.637.1100.01
PG 13,5	7–12	6,5	31	22	1.636.1300.01	1.637.1300.01
PG 16	10–14	6,5	32	24	1.636.1600.01	1.637.1600.01
PG 21	13–18	7	38	30	1.636.2100.01	1.637.2100.01
PG 29	18–25	8	43	40	1.636.2900.01	1.637.2900.01
PG 36	22–32	8	48	50	1.636.3600.01	1.637.3600.01



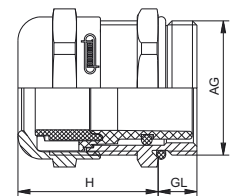
HSK-M-EMC-Ex Metr.



Material	Nickel plated brass
Clamping insert	Polyamide
Seal	Buna-N
O-Ring	Buna-N
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F) -60 °C – 95 °C (-76 °F – 203 °F)



For the [international certificates](#) please see page 154 / 155 or our homepage www.hummel.com.



AG	\varnothing mm	GL mm	H mm	\varnothing mm	Number HSK-M-EMC-Ex -20 °C – 95 °C	Number HSK-M-EMC-Ex -60 °C – 95 °C
M 12 x 1,5	3–6,5	6,5	19	14	1.616.1200.50	1.646.1200.50
M 12 x 1,5	2–5	6,5	19	14	1.616.1200.51	1.646.1200.51
M 16 x 1,5	6–10	6	22	20	1.616.1600.50	1.646.1600.50
M 16 x 1,5	3–7	6	22	20	1.616.1600.51	1.646.1600.51
M 20 x 1,5	10–14	6	23	24	1.616.2000.50	1.646.2000.50
M 20 x 1,5	7–12	6	23	24	1.616.2000.51	1.646.2000.51
M 25 x 1,5	14–18	7	24	30	1.616.2500.50	1.646.2500.50
M 25 x 1,5	10–16	7	24	30	1.616.2500.51	1.646.2500.51
M 32 x 1,5	20–25	8	31	40	1.616.3200.50	1.646.3200.50
M 32 x 1,5	13–20	8	31	40	1.616.3200.51	1.646.3200.51
M 40 x 1,5	22–32	8	37	50	1.616.4000.50	1.646.4000.50
M 40 x 1,5	20–26	8	37	50	1.616.4000.51	1.646.4000.51
M 50 x 1,5	32–38	9	37	57	1.616.5000.50	1.646.5000.50
M 50 x 1,5	25–31	9	37	57	1.616.5000.51	1.646.5000.51
M 63 x 1,5	37–44	10	38	64/68	1.616.6300.50	1.646.6300.50
M 63 x 1,5	29–35	10	38	64/68	1.616.6300.51	1.646.6300.51

HSK-M-EMC-Ex / HSK-M-EMC-PVDF-Ex

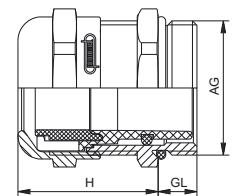
PG, NPT



Material	Nickel plated brass
Clamping insert	Polyamide / PVDF
Seal	Buna-N / FKM
O-Ring	Buna-N / FKM
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F) -60 °C – 95 °C (-76 °F – 203 °F) / -20 °C – 130 °C (-4 °F – 266 °F) (PVDF)



For the **international certificates** please see page 154 / 155 or our homepage www.hummel.com.



AG	∅ _k mm	GL mm	H mm	∅ _h mm	Number HSK-M-EMC-Ex -20 °C – 95 °C	Number HSK-M-EMC-Ex -60 °C – 95 °C	Number HSK-M-PVDF-EMC-Ex -20 °C – 130 °C
PG 7	3–6,5	5	19	14	1.616.0700.01	1.646.0700.01	1.666.0700.01
PG 7	2–5	5	19	14	1.616.0700.15	1.646.0700.15	1.666.0700.15
PG 9	4–8	6	21	17	1.616.0900.01	1.646.0900.01	1.666.0900.01
PG 9	2–6	6	21	17	1.616.0900.15	1.646.0900.15	1.666.0900.15
PG 11	6–10	6	22	20	1.616.1100.01	1.646.1100.01	1.666.1100.01
PG 11	3–7	6	22	20	1.616.1100.15	1.646.1100.15	1.666.1100.15
PG 13,5	7–12	6,5	24	22	1.616.1300.01	1.646.1300.01	1.666.1300.01
PG 13,5	5–9	6,5	24	22	1.616.1300.15	1.646.1300.15	1.666.1300.15
PG 16	10–14	6,5	23	24	1.616.1600.01	1.646.1600.01	1.666.1600.01
PG 16	7–12	6,5	23	24	1.616.1600.15	1.646.1600.15	1.666.1600.15
PG 21	14–18	7	24	30	1.616.2100.01	1.646.2100.01	1.666.2100.01
PG 21	10–16	7	24	30	1.616.2100.15	1.646.2100.15	1.666.2100.15
PG 29	20–25	8	29	40	1.616.2900.01	1.646.2900.01	1.666.2900.01
PG 29	13–20	8	29	40	1.616.2900.15	1.646.2900.15	1.666.2900.15
PG 36	22–32	8	35	50	1.616.3600.01	1.646.3600.01	1.666.3600.01
PG 36	20–26	8	35	50	1.616.3600.15	1.646.3600.15	1.666.3600.15
PG 42	32–38	9	37	57	1.616.4200.01	1.646.4200.01	1.666.4200.01
PG 42	25–31	9	37	57	1.616.4200.15	1.646.4200.15	1.666.4200.15
PG 48	37–44	10	38	64	1.616.4800.01	1.646.4800.01	1.666.4800.01
PG 48	29–35	10	38	64	1.616.4800.15	1.646.4800.15	1.666.4800.15
NPT 3/8"	4–8	15	21	17/19	1.616.3800.70	1.646.3800.70	1.666.3800.70
NPT 3/8"	2–6	15	21	17/19	1.616.3800.71	1.646.3800.71	1.666.3800.71
NPT 1/2"	7–12	13	24	22/24	1.616.1200.70	1.646.1200.70	1.666.1200.70
NPT 1/2"	5–9	13	24	22/24	1.616.1200.71	1.646.1200.71	1.666.1200.71
NPT 3/4"	14–18	13	25	30	1.616.3400.70	1.646.3400.70	1.666.3400.70
NPT 3/4"	10–16	13	25	30	1.616.3400.71	1.646.3400.71	1.666.3400.71

HSK-INOX-EMC-Ex

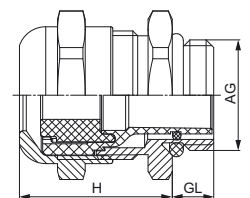
Metr.



Material	1.4305
Clamping insert	Polyamide
Seal	Buna-N
O-Ring	Buna-N
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-60 °C – 95 °C (-76 °F – 203 °F)



For the [international certificates](#) please see page 154 / 155 or our homepage www.hummel.com.



AG	∅k mm	GL mm	H mm	⌀ mm	Number
M 12 x 1,5	3–6,5	6,5	19	14	1.673.1200.50
M 12 x 1,5	2–5	6,5	19	14	1.673.1200.51
M 16 x 1,5	5–10	6	21	20	1.673.1600.50
M 16 x 1,5	3–7	6	21	20	1.673.1600.51
M 20 x 1,5	10–14	6	23	24	1.673.2000.50
M 20 x 1,5	7–12	6	23	24	1.673.2000.51
M 25 x 1,5	13–18	7	26	30	1.673.2500.50
M 25 x 1,5	9–16	7	26	30	1.673.2500.51
M 32 x 1,5	18–25	8	31	41	1.673.3200.50
M 32 x 1,5	13–20	8	31	41	1.673.3200.51
M 40 x 1,5	22–32	8	37	50	1.673.4000.50
M 40 x 1,5	20–26	8	37	50	1.673.4000.51
PG 7	3–6,5	5	19	14	1.673.0700.01
PG 7	2–5	5	19	14	1.673.0700.15
PG 9	4–8	6	21	17	1.673.0900.01
PG 9	2–6	6	21	17	1.673.0900.15
PG 11	5–10	6	22	22	1.673.1100.01
PG 11	3–7	6	22	22	1.673.1100.15
PG 13,5	7–12	6,5	24	22	1.673.1300.01
PG 13,5	5–9	6,5	24	22	1.673.1300.15
PG 16	10–14	6,5	23	24	1.673.1600.01
PG 16	7–12	6,5	23	24	1.673.1600.15
PG 21	13–18	7	24	30	1.673.2100.01
PG 21	9–16	7	24	30	1.673.2100.15
PG 29	18–25	8	29	41	1.673.2900.01
PG 29	13–20	8	29	41	1.673.2900.15
PG 36	22–32	8	35	50	1.673.3600.01
PG 36	20–26	8	35	50	1.673.3600.15

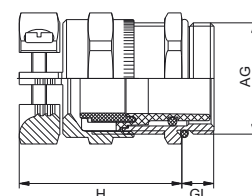
HSK-MZ-EMC-Ex Metr.



Material	Nickel plated brass
Clamping insert	Polyamide
Seal	Buna-N
O-Ring	Buna-N
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F) -60 °C – 95 °C (-76 °F – 203 °F)



For the **international certificates** please see page 154 / 155 or our homepage www.hummel.com.



AG	\varnothing mm	GL mm	H mm	\varnothing mm	Number HSK-M-EMC-Ex -20 °C – 95 °C	Number HSK-M-EMC-Ex -60 °C – 95 °C
M 12 x 1,5	3–6,5	6,5	26	14	1.617.1200.50	1.647.1200.50
M 16 x 1,5	6–10	6	29	20	1.617.1600.50	1.647.1600.50
M 20 x 1,5	10–14	6	32	24	1.617.2000.50	1.647.2000.50
M 25 x 1,5	14–18	7	35	30	1.617.2500.50	1.647.2500.50
M 32 x 1,5	20–25	8	41	40	1.617.3200.50	1.647.3200.50
M 40 x 1,5	24–32	8	48	50	1.617.4000.50	1.647.4000.50
M 50 x 1,5	32–38	9	51	57	1.617.5000.50	1.647.5000.50
M 50 x 1,5	28–31	9	51	57	1.617.5000.51	1.647.5000.51
M 63 x 1,5	37–44	10	52	68	1.617.6300.50	1.647.6300.50
M 63 x 1,5	32–35	10	52	68	1.617.6300.51	1.647.6300.51

HSK-EMC-Ex e CABLE GLANDS

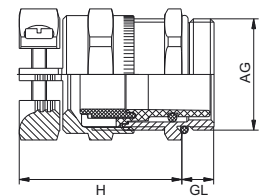
HSK-MZ-EMC-Ex / HSK-MZ-EMC-PVDF-Ex PG, NPT



Material	Nickel plated brass
Clamping insert	Polyamide / PVDF
Seal	Buna-N
O-Ring	Buna-N
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F) -60 °C – 95 °C (-76 °F – 203 °F)

II 2G 1D

For the [international certificates](#) please see page 154 / 155 or our homepage www.hummel.com.



AG	\varnothing mm	GL mm	H mm	\varnothing mm	Number HSK-MZ-EMC-Ex -20 °C – 95 °C	Number HSK-MZ-EMC-Ex -60 °C – 95 °C	Number HSK-MZ-PVDF-EMC-Ex -20 °C – 130 °C
PG 7	3–6,5	5	26	14	1.617.0700.01	1.647.0700.01	1.667.0700.01
PG 9	4–8	6	28	17	1.617.0900.01	1.647.0900.01	1.667.0900.01
PG 11	6–10	6	29	20	1.617.1100.01	1.647.1100.01	1.667.1100.01
PG 13,5	7–12	6,5	33	22	1.617.1300.01	1.647.1300.01	1.667.1300.01
PG 16	10–14	6,5	32	24	1.617.1600.01	1.647.1600.01	1.667.1600.01
PG 21	13–18	7	35	30	1.617.2100.01	1.647.2100.01	1.667.2100.01
PG 29	20–25	8	41	40	1.617.2900.01	1.647.2900.01	1.667.2900.01
PG 36	24–32	8	48	50	1.617.3600.01	1.647.3600.01	1.667.3600.01
PG 42	32–38	9	51	57	1.617.4200.01	1.647.4200.01	1.667.4200.01
PG 42	28–31	9	51	57	1.617.4200.15	1.647.4200.15	1.667.4200.15
PG 48	37–44	10	51	64	1.617.4800.01	1.647.4800.01	1.667.4800.01
PG 48	32–35	10	51	64	1.617.4800.15	1.647.4800.15	1.667.4800.15
NPT 3/8"	4–8	15	27	17/19	1.617.3800.70	1.647.3800.70	1.667.3800.70
NPT 1/2"	7–12	13	31	22/24	1.617.1200.70	1.647.1200.70	1.667.1200.70
NPT 3/4"	13–18	13	36	30	1.617.3400.70	1.647.3400.70	1.667.3400.70

CABLE GLANDS FOR

„HAZARDOUS AREAS“

HSK-Ex e cable glands for special applications

Cable glands of the HSK-Ex e-series have been designed for standard applications in hazardous locations type „e“ according to EN 60079-0 and EN 60079-7.

You can find in this chapter:

HSK cable gland series Ex e proofed

- // HSK-M-Multi-Ex cable glands with inserts for connecting of more than one cable
- // HSK-M-FLAKA-Ex cable glands with inserts for flat cable
- // HSK-MZ-Ex cable glands with additional strain relief

We provide variable clamping ranges, thread lengths, thread types plus different sealing materials and temperature ranges. Our range is completed by global certifications.

For any further question please do not hesitate to contact us. We look forward to develop solutions together with you.

You profit of our vast knowledge in development, engineering and production technology.



HSK-Ex e CABLE GLANDS FOR SPECIAL APPLICATIONS

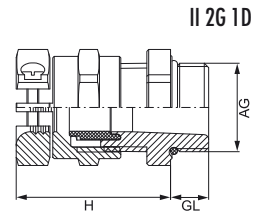
HSK-K-MZ-Ex

Metr.



For the [international certificates](#) please see page 154 / 155 or our homepage www.hummel.com.

Material	Polyamide-AL
Seal	Buna-N
O-Ring	Buna-N
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-20 °C – 70 °C (-4 °F – 158 °F)



AG	\varnothing mm	GL mm	H mm	\varnothing mm	Number
M 16 x 1,5	4–8	15	29	19	1.215.1601.50
M 20 x 1,5	7–12	15	35,5	24	1.215.2001.50
M 25 x 1,5	13–18	11	41	33	1.215.2501.50
M 32 x 1,5	18–25	11	49	42	1.215.3201.50
M 40 x 1,5	22–32	13	58	53	1.215.4001.50
M 50 x 1,5	32–38	13	61,5	60	1.215.5001.50
M 63 x 1,5	37–44	14	62	65 / 68	1.215.6301.50

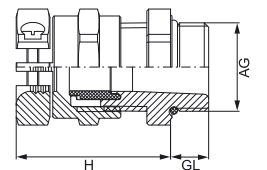
HSK-K-MZ-Ex

PG



For the [international certificates](#) please see page 154 / 155 or our homepage www.hummel.com.

Material	Polyamide-AL
Seal	Buna-N
O-Ring	Buna-N
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-20 °C – 70 °C (-4 °F – 158 °F)



AG	\varnothing mm	GL mm	H mm	\varnothing mm	Number
PG 9	4–8	15	29	19	1.215.0901.14
PG 11	6–10	15	32,5	22	1.215.1101.14
PG 13,5	7–12	15	35,5	24	1.215.1301.14
PG 16	10–14	10	37,5	27	1.215.1601.14
PG 21	13–18	11	41	33	1.215.2101.14
PG 29	18–25	11	49	42	1.215.2901.14
PG 36	22–32	13	58	53	1.215.3601.14
PG 42	32–38	13	61,5	60	1.215.4201.14
PG 48	37–44	14	62	65	1.215.4801.14

HSK-Ex e CABLE GLANDS FOR SPECIAL APPLICATIONS

HSK-M-Multi-Ex

Metr., PG, NPT

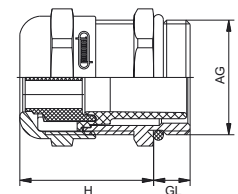



Material	Nickel plated brass
Clamping insert	Polyamide
Seal	Elastomer
O-Ring	Buna-N
Protection	IP 68
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F)

- // Stainless steel on request
- // The shown inserts are samples, more inserts upon request



For the **international certificates** please see page 154 / 155 or our homepage www.hummel.com.



AG	GL mm	H mm	 mm	Number of holes x d	Number	Number of holes x d	Number
M 16 x 1,5	6	21	17/19	4 x 1,4	1.687.1600.50	2 x 3	1.687.1601.50
M 20 x 1,5	6	23	22	6 x 3	1.687.2001.50	2 x 5	1.687.2003.50
M 25 x 1,5	7	26	30	4 x 6	1.687.2500.50	3 x 7	1.687.2501.50
M 32 x 1,5	8	31	40	6 x 6,5	1.687.3200.50	4 x 9	1.687.3201.50
M 40 x 1,5	8	37	50	7 x 9	1.687.4001.50	2 x 15	1.687.4003.50
M 50 x 1,5	9	37	57				1.687.5099.50
M 63 x 1,5	10	38	64/68	6 x 12	1.687.6301.50	3 x 18	1.687.6302.50
PG 9	6	21	17	4 x 1,4	1.687.0900.01	2 x 3	1.687.0901.01
PG 11	6	22	20	2 x 4	1.687.1102.01	3 x 3	1.687.1101.01
PG 13,5	6,5	24	22	3 x 4	1.687.1302.01	2 x 5	1.687.1303.01
PG 16	6,5	23	24	4 x 4	1.687.1602.01	6 x 4	1.687.1604.01
PG 16	6,5	23	24	3 x 5,6	1.687.1606.01	2 x 6	1.687.1605.01
PG 21	7	24	30	4 x 6	1.687.2100.01	3 x 7	1.687.2101.01
PG 29	8	29	40	6 x 6,5	1.687.2900.01	4 x 9	1.687.2901.01
PG 36	8	35	50	7 x 9	1.687.3601.01	2 x 15	1.687.3603.01
PG 48	10	38	64	6 x 12	1.687.4801.01	3 x 18	1.687.4802.01
NPT 3/8"	15	21	17/19	4 x 1,4	1.687.3800.70	2 x 3	1.687.3801.70
NPT 1/2"	13	24	24	3 x 4	1.687.1220.70	2 x 5	1.687.1203.70
NPT 3/4"	13	25	30	4 x 6	1.687.3400.70	3 x 7	1.687.3401.70
NPT 1"	19	29	40	6 x 6,5	1.687.1000.70	4 x 9	1.687.1001.70

HSK-Ex e CABLE GLANDS FOR SPECIAL APPLICATIONS

HSK-M-FLAKA-Ex

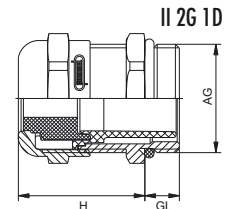
Metr.



// Stainless steel on request
 // The shown inserts are samples, more inserts upon request

For the [international certificates](#) please see page 154 / 155 or our homepage www.hummel.com.

Material	Nickel plated brass
Clamping insert	Polyamide
Seal	Elastomer
O-Ring	Buna-N
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F)



AG	GL mm	H mm	mm	w x h mm	Number	w x h mm	Number
M 20 x 1,5	6	24	24	12 x 7	1.689.2017.50	14 x 6	1.689.2018.50
M 25 x 1,5	7	26	30	14 x 6	1.689.2500.50	14 x 7	1.689.2501.50
M 32 x 1,5	8	31	40	22 x 8	1.689.3200.50		
M 40 x 1,5	8	37	50	28,5 x 10	1.689.4000.50	29 x 5,5	1.689.4001.50
M 40 x 1,5	8	37	50	30,5 x 12	1.689.4002.50	31 x 7,5	1.689.4003.50
M 50 x 1,5	9	37	57	33,5 x 11,5	1.689.5000.50		
M 63 x 1,5	10	38	64 / 68	38 x 12	1.689.6300.50		

HSK-M-FLAKA-Ex

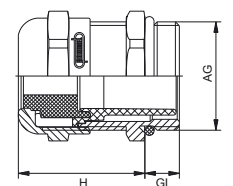
PG, NPT



// Stainless steel on request
 // The shown inserts are samples, more inserts upon request

For the [international certificates](#) please see page 154 / 155 or our homepage www.hummel.com.

Material	Nickel plated brass
Clamping insert	Polyamide
Seal	Elastomer
O-Ring	Buna-N
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F)



AG	GL mm	H mm	mm	w x h mm	Number	w x h mm	Number
PG 16	6,5	23	24	12 x 7	1.689.1601.01	14 x 6	1.689.1602.01
PG 21	7	24	30	14 x 6	1.689.2100.01	14 x 7	1.689.2101.01
PG 29	8	29	40	22 x 8	1.689.2900.01		
PG 36	8	35	50	28,5 x 10	1.689.3600.01	29 x 5,5	1.689.3601.01
PG 36	8	35	50	30,5 x 12	1.689.3602.01	31 x 7,5	1.689.3603.01
PG 42	9	37	57	33,5 x 11,5	1.689.4200.01		
PG 48	10	38	64	38 x 12	1.689.4802.01		
NPT 3/4"	13	25	30	14 x 6	1.689.3400.70	14 x 7	1.689.3401.70
NPT 1"	19	29	40	22 x 8	1.689.1000.70		

HSK-Ex e CABLE GLANDS FOR SPECIAL APPLICATIONS

HSK-MZ-Ex / HSK-MZ-PVDF-Ex

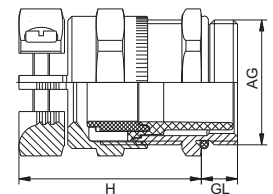
Metr.



Material	Nickel plated brass
Clamping insert	Polyamide / PVDF
Seal	Buna-N / FKM
O-Ring	Buna-N / FKM
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F) -60 °C – 95 °C (-76 °F – 203 °F) / -20 °C – 130 °C (-4 °F – 266 °F) (PVDF)



For the **international certificates** please see page 154 / 155 or our homepage www.hummel.com.



AG	\varnothing mm	GL mm	H mm	\varnothing mm	Number HSK-MZ-Ex -20 °C – 95 °C	Number HSK-MZ-Ex -60 °C – 95 °C	Number HSK-MZ-PVDF-Ex -20 °C – 130 °C
M 12 x 1,5	3–6,5	6,5	26	14	1.611.1200.50	1.641.1200.50	1.661.1200.50
M 16 x 1,5	4–8	6	28	19	1.611.1600.50	1.641.1600.50	1.661.1600.50
M 16 x 1,5	6–10	6	30	20	1.611.1611.50	1.641.1611.50	1.661.1611.50
M 20 x 1,5	7–12	6	33	22	1.611.2000.50	1.641.2000.50	1.661.2000.50
M 20 x 1,5	10–14	6	33	24	1.611.2016.50	1.641.2016.50	1.661.2016.50
M 25 x 1,5	14–18	7	37	30	1.611.2500.50	1.641.2500.50	1.661.2500.50
M 32 x 1,5	20–25	8	43	40	1.611.3200.50	1.641.3200.50	1.661.3200.50
M 40 x 1,5	24–32	8	50	50	1.611.4000.50	1.641.4000.50	1.661.4000.50
M 50 x 1,5	32–38	9	51	57	1.611.5000.50	1.641.5000.50	
M 63 x 1,5	37–44	10	52	64 / 68	1.611.6300.50	1.641.6300.50	

HSK-Ex e CABLE GLANDS FOR SPECIAL APPLICATIONS

HSK-MZ-Ex / HSK-MZ-PVDF-Ex

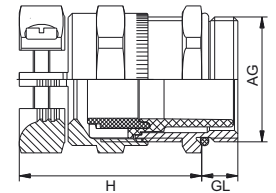
PG, NPT



Material	Nickel plated brass
Clamping insert	Polyamide / PVDF
Seal	Buna-N / FKM
O-Ring	Buna-N / FKM
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F) -60 °C – 95 °C (-76 °F – 203 °F) / -20 °C – 130 °C (-4 °F – 266 °F) (PVDF)



For the [international certificates](#) please see page 154 / 155 or our homepage www.hummel.com.



AG	\varnothing_k mm	GL mm	H mm	\varnothing mm	Number HSK-MZ-Ex -20 °C – 95 °C	Number HSK-MZ-Ex -60 °C – 95 °C	Number HSK-MZ-PVDF-Ex -20 °C – 130 °C
PG 7	3–6,5	5	26	14	1.611.0700.01	1.641.0700.01	1.661.0700.01
PG 9	4–8	6	28	17	1.611.0900.01	1.641.0900.01	1.661.0900.01
PG 11	6–10	6	30	20	1.611.1100.01	1.641.1100.01	1.661.1100.01
PG 13,5	7–12	6	33	22	1.611.1300.01	1.641.1300.01	1.661.1300.01
PG 16	10–14	6	33	24	1.611.1600.01	1.641.1600.01	1.661.1600.01
PG 21	13–18	7	37	30	1.611.2100.01	1.641.2100.01	1.661.2100.01
PG 29	20–25	8	43	40	1.611.2900.01	1.641.2900.01	1.661.2900.01
PG 36	24–32	8	50	50	1.611.3600.01	1.641.3600.01	1.661.3600.01
PG 42	32–38	9	51	57	1.611.4200.01	1.641.4200.01	1.661.4200.01
PG 48	37–44	10	52	64	1.611.4800.01	1.641.4800.01	1.661.4800.01
NPT 3/8"	4–8	15	28	17 / 19	1.611.3800.70	1.641.3800.70	1.661.3800.70
NPT 1/2"	7–12	13	33	22 / 24	1.611.1200.70	1.641.1200.70	1.661.1200.70
NPT 3/4"	13–18	13	37	30	1.611.3400.70	1.641.3400.70	1.661.3400.70
NPT 1"	20–25	19	43	40	1.611.1000.70	1.641.1000.70	

CABLE GLANDS FOR „HAZARDOUS AREAS“

HSK-Ex d cable glands

Cable glands of the HSK-Ex d series have been designed for standard applications in hazardous locations type „e“ and/or „d“ according to EN 60079-0, EN 60079-1 and EN 60079-7

You can find in this chapter:

HSK-Ex d cable gland, made of

- // Brass
- // Brass with additional stain-relief
- // Acid-resistant stainless steel

We provide variable clamping ranges, thread types and temperature ranges. Our range is completed by global certifications. For any further question please do not hesitate to contact us. We look forward to develop solutions together with you. You profit of our vast knowledge in development, engineering and production technology.



HSK-Ex d CABLE GLANDS

HSK-M-Ex d / HSK-M-PVDF-Ex d

Metr.

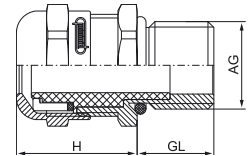


For the [international certificates](#) please see page 154 / 155 or our homepage www.hummel.com.

Material	Nickel plated brass
Clamping insert	Polyamide / PVDF
Seal / O-Ring	FKM / FKM
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-60 °C – 105 °C (-76 °F – 221 °F) (PA) -20 °C – 130 °C (-4 °F – 266 °F) (PVDF)



II 2G 1D Ex d IIC



AG	\varnothing mm	GL mm	H mm	\varnothing mm	Number HSK-M-Ex d -60 °C – 105 °C	Number HSK-M-PVDF-Ex d -20 °C – 130 °C
M 12 x 1,5	3–6,5	16	18,7	14	1.622.1200.50	1.634.1200.50
M 12 x 1,5	2–5	16	18,7	14	1.622.1200.51	1.634.1200.51
M 16 x 1,5	5–10	16	22	20	1.622.1600.50	1.634.1600.50
M 16 x 1,5	3–7	16	22	20	1.622.1600.51	1.634.1600.51
M 20 x 1,5	10–14	16	25	24	1.622.2000.50	1.634.2000.50
M 20 x 1,5	7–12	16	25	24	1.622.2000.51	1.634.2000.51
M 25 x 1,5	13–18	16	26,5	30	1.622.2500.50	1.634.2500.50
M 25 x 1,5	9–16	16	26,5	30	1.622.2500.51	1.634.2500.51
M 32 x 1,5	18–25	16	32	40	1.622.3200.50	1.634.3200.50
M 32 x 1,5	14–20	16	32	40	1.622.3200.51	1.634.3200.51
M 40 x 1,5	22–32	16	38,5	50	1.622.4000.50	1.634.4000.50
M 40 x 1,5	20–26	16	38,5	50	1.622.4000.51	1.634.4000.51

HSK-M-Ex d / HSK-M-PVDF-Ex d

NPT

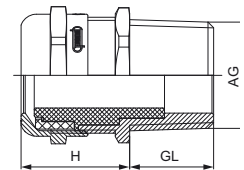


For the [international certificates](#) please see page 154 / 155 or our homepage www.hummel.com.

Material	Nickel plated brass
Clamping insert	Polyamide / PVDF
Seal / O-Ring	FKM / FKM
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-60 °C – 105 °C (-76 °F – 221 °F) (PA) -20 °C – 130 °C (-4 °F – 266 °F) (PVDF)



II 2G 1D Ex d IIC



AG	\varnothing mm	GL mm	H mm	\varnothing mm	Number HSK-M-Ex d -60 °C – 105 °C	Number HSK-M-PVDF-Ex d -20 °C – 130 °C
NPT 3/8"	5–10	16	22	20	1.622.3800.70	1.634.3800.70
NPT 3/8"	3–7	16	22	20	1.622.3800.71	1.634.3800.71
NPT 1/2"	10–14	20	25	24	1.622.1200.70	1.634.1200.70
NPT 1/2"	7–12	20	25	24	1.622.1200.71	1.634.1200.71
NPT 3/4"	13–18	20,5	26,5	30	1.622.3400.70	1.634.3400.70
NPT 3/4"	9–16	20,5	26,5	30	1.622.3400.71	1.634.3400.71
NPT 1"	18–25	25	32	40	1.622.1000.70	1.634.1000.70
NPT 1"	14–20	25	32	40	1.622.1000.71	1.634.1000.71
NPT 1 1/4"	22–32	26	38,5	50	1.622.5400.70	1.634.5400.70
NPT 1 1/4"	20–26	26	38,5	50	1.622.5400.71	1.634.5400.71
NPT 1 1/2"	22–32	26,5	38,5	50	1.622.6400.70	1.634.6400.70
NPT 1 1/2"	20–26	26,5	38,5	50	1.622.6400.71	1.634.6400.71

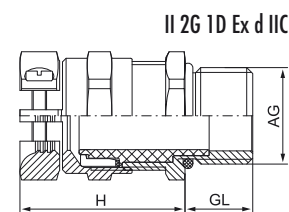
HSK-MZ-Ex d

Metr.



For the [international certificates](#) please see page 154 / 155 or our homepage www.hummel.com.

Material	Nickel plated brass
Clamping insert	Polyamide
Seal / O-Ring	FKM
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-60 °C – 105 °C (-76 °F – 221 °F)



AG	\varnothing mm	GL mm	H mm	\varnothing mm	Number HSK-MZ-Ex d -60 °C – 105 °C
M 12 x 1,5	3–6,5	16	26	14	1.628.1200.50
M 16 x 1,5	5–10	16	30,2	20	1.628.1600.50
M 20 x 1,5	10–14	16	34	24	1.628.2000.50
M 25 x 1,5	13–18	16	37,8	30	1.628.2500.50
M 32 x 1,5	18–25	16	44	40	1.628.3200.50
M 40 x 1,5	22–32	16	51,5	50	1.628.4000.50

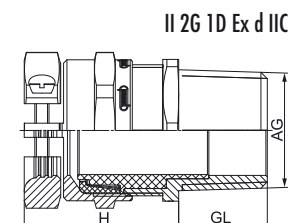
HSK-MZ-Ex d

NPT



For the [international certificates](#) please see page 154 / 155 or our homepage www.hummel.com.

Material	Nickel plated brass
Clamping insert	Polyamide
Seal / O-Ring	FKM
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-60 °C – 105 °C (-76 °F – 221 °F)



AG	\varnothing mm	GL mm	H mm	\varnothing mm	Number HSK-MZ-Ex d -60 °C – 105 °C
NPT 3/8"	5–10	16	30	20	1.628.3800.70
NPT 1/2"	10–14	20	33,6	24	1.628.1200.70
NPT 3/4"	13–18	20,5	37,8	30	1.628.3400.70
NPT 1"	18–25	25	44	40	1.628.1000.70
NPT 1 1/4"	22–32	26	51,5	50	1.628.5400.70
NPT 1 1/2"	22–32	26,5	51,5	50	1.628.6400.70

HSK-Ex d CABLE GLANDS

HSK-INOX-Ex d / HSK-INOX-PVDF-Ex d

Metr.

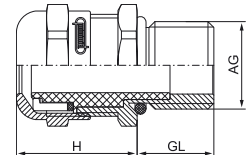


For the [international certificates](#) please see page 154 / 155 or our homepage www.hummel.com.

Material	INOX (1.4404)
Clamping insert	Polyamide / PVDF
Seal / O-Ring	FKM / FKM
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-60 °C – 105 °C (-76 °F – 221 °F) (PA) -20 °C – 130 °C (-4 °F – 266 °F) (PVDF)



II 2G 1D Ex d IIC



AG	\varnothing mm	GL mm	H mm	\varnothing mm	Number HSK-INOX-Ex d -60 °C – 105 °C	Number HSK-INOX-PVDF-Ex d -20 °C – 130 °C
M 12 x 1,5	3–6,5	16	19	14	1.632.1200.50	1.633.1200.50
M 12 x 1,5	2–5	16	19	14	1.632.1200.51	1.633.1200.51
M 16 x 1,5	5–10	16	22	20	1.632.1600.50	1.633.1600.50
M 16 x 1,5	3–7	16	22	20	1.632.1600.51	1.633.1600.51
M 20 x 1,5	10–14	16	25	24	1.632.2000.50	1.633.2000.50
M 20 x 1,5	7–12	16	25	24	1.632.2000.51	1.633.2000.51
M 25 x 1,5	13–18	16	26,5	30	1.632.2500.50	1.633.2500.50
M 25 x 1,5	9–16	16	26,5	30	1.632.2500.51	1.633.2500.51
M 32 x 1,5	18–25	16	32	40	1.632.3200.50	1.633.3200.50
M 32 x 1,5	14–20	16	32	40	1.632.3200.51	1.633.3200.51
M 40 x 1,5	22–32	16	38,5	50	1.632.4000.50	1.633.4000.50
M 40 x 1,5	20–26	16	38,5	50	1.632.4000.51	1.633.4000.51

HSK-INOX-Ex d / HSK-INOX-PVDF-Ex d

NPT

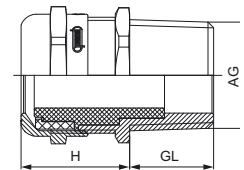


For the [international certificates](#) please see page 154 / 155 or our homepage www.hummel.com.

Material	INOX (1.4404)
Clamping insert	Polyamide / PVDF
Seal / O-Ring	FKM / FKM
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-60 °C – 105 °C (-76 °F – 221 °F) (PA) -20 °C – 130 °C (-4 °F – 266 °F) (PVDF)



II 2G 1D Ex d IIC



AG	\varnothing mm	GL mm	H mm	\varnothing mm	Number HSK-INOX-Ex d -60 °C – 105 °C	Number HSK-INOX-PVDF-Ex d -20 °C – 130 °C
NPT 3/8"	5–10	16	22	20	1.632.3800.70	1.633.3800.70
NPT 3/8"	3–7	16	22	20	1.632.3800.71	1.633.3800.71
NPT 1/2"	10–14	20	25	24	1.632.1200.70	1.633.1200.70
NPT 1/2"	7–12	20	25	24	1.632.1200.71	1.633.1200.71
NPT 3/4"	13–18	20,5	26,5	30	1.632.3400.70	1.633.3400.70
NPT 3/4"	9–16	20,5	26,5	30	1.632.3400.71	1.633.3400.71

CABLE GLANDS FOR „HAZARDOUS AREAS“

Ex accessories

You can find in this chapter accessories for all series of our industrial cable glands for hazardous locations with protection „e“ and/or „d“:

- // Accessories made of plastic starting on page 144
- // Accessories made of nickel plated brass starting on page 146
- // Accessories made of stainless steel starting on page 150



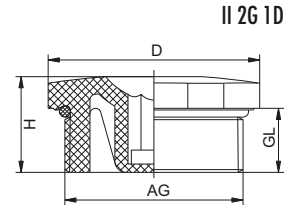
Plug V-Ex

Metr.



For the [international certificates](#) please see page 154 / 155 or our homepage www.hummel.com.

Material	Polyamide, fiber reinforced
O-Ring	Buna-N
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F)
Colors	black (RAL 9005)



II 2G 1D

AG	GL mm	H mm	D mm	mm	mm	Number
M 12 x 1,5	8,5	13	16,5	15	6	1.297.1201.50
M 16 x 1,5	8,5	13	20,5	19	8	1.297.1601.50
M 20 x 1,5	9	14,5	25,5	24	8	1.297.2001.50
M 25 x 1,5	10,5	16	30,5	28	8	1.297.2501.50
M 32 x 1,5	11,5	17,5	38	36	8	1.297.3201.50
M 40 x 1,5	11,5	18	48	46	8	1.297.4001.50
M 50 x 1,5	13,5	20	60	55	8	1.297.5001.50
M 63 x 1,5	14,5	21	75	70	8	1.297.6301.50

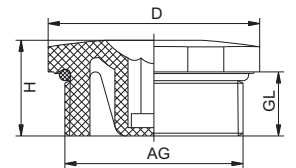
Plug V-Ex

PG



For the [international certificates](#) please see page 154 / 155 or our homepage www.hummel.com.

Material	Polyamide, fiber reinforced
O-Ring	Buna-N
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F)
Colors	black (RAL 9005)



II 2G 1D

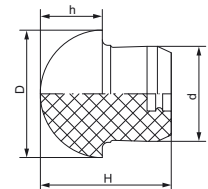
AG	GL mm	H mm	D mm	mm	mm	Number
PG 7	8,5	13	16,5	15	6	1.297.0701.11
PG 9	8,5	13	20,5	19	8	1.297.0901.11
PG 11	9	14,5	25,5	24	8	1.297.1101.11
PG 13,5	9	14,5	25,5	24	8	1.297.1301.11
PG 16	10,5	16	30,5	28	8	1.297.1601.11
PG 21	11,5	17,5	38	36	8	1.297.2101.11
PG 29	11,5	18	48	46	8	1.297.2901.11
PG 36	13,5	20	60	55	8	1.297.3601.11
PG 42	13,5	20	65	60	8	1.297.4201.11
PG 48	14,5	21	75	70	8	1.297.4801.11

Plug HSK-V-Ex

Metr., PG, NPT



Material	Elastomer
Operating Temperature	-40 °C – 95 °C (-40 °F – 203 °F)
Colors	black (RAL 9005)



For the [international certificates](#) please see page 154 / 155 or our homepage www.hummel.com.

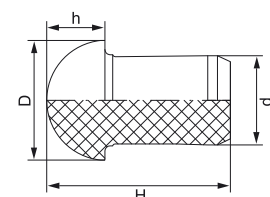
Fits the following sizes		D mm	d mm	H mm	h mm	Number
PG 7	M 12 x 1,5	9,5	6,3	11,5	4,5	1.296.0701.11
PG 9	M 16 x 1,5 NPT 3/8"	11	7,8	13,5	5,5	1.296.0901.11
PG 11	M 16 x 1,5	13,5	9,8	14,5	5,5	1.296.1101.11
PG 13,5	M 20 x 1,5 NPT 1/2"	16	11,8	18	8	1.296.1301.11
PG 16	M 20 x 1,5 NPT 1/2"/16	18,5	13,8	19	9	1.296.1601.11
PG 21	M 25 x 1,5 NPT 3/4"	22	17,8	22	11	1.296.2101.11
PG 29	M 32 x 1,5 NPT 1" NPT 1 1/4"	29	25	25	10	1.296.2901.11
PG 36	M 40 x 1,5 NPT 1 1/2"	38	32	28	11	1.296.3601.11
PG 42	M 50 x 1,5	43	38	30	12	1.296.4201.11
PG 48	M 63 x 1,5	49	44	30	12	1.296.4801.11

Plug HSK-V-Ex MZ version

Metr., PG, NPT



Material	Elastomer
Operating Temperature	-40 °C – 95 °C (-40 °F – 203 °F)
Colors	black (RAL 9005)



For the [international certificates](#) please see page 154 / 155 or our homepage www.hummel.com.

// This plug is suitable in all HSK glands with additional strain relief

Fits the following sizes		D mm	d mm	H mm	h mm	Number
PG 7	M 12 x 1,5	9,5	6,3	18	4,5	1.296.0701.61
PG 9	M 16 x 1,5 NPT 3/8"	11	7,8	20,5	5,5	1.296.0901.61
PG 11	M 16 x 1,5	13,5	9,8	22	5,5	1.296.1101.61
PG 13,5	M 20 x 1,5 NPT 1/2"	16	11,8	26,5	8	1.296.1301.61
PG 16	M 20 x 1,5 NPT 1/2"/16	18,5	13,8	28,4	9	1.296.1601.61
PG 21	M 25 x 1,5 NPT 3/4"	22	17,8	32	11	1.296.2101.61
PG 29	M 32 x 1,5 NPT 1" NPT 1 1/4"	29	25	35,5	10	1.296.2901.61
PG 36	M 40 x 1,5 NPT 1 1/2"	38	32	39	11	1.296.3601.61

Plug V-Ms-Ex / V-Ms-FKM-Ex / V-Ms-VMQ-Ex

Metr.

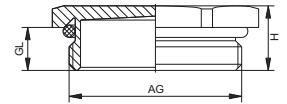


For the [international certificates](#) please see page 154 / 155 or our homepage www.hummel.com.

Material	Nickel plated brass
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
V-Ms-Ex O-Ring	Buna-N
V-Ms-FKM-Ex O-Ring	FKM
V-Ms-VMQ-Ex O-Ring	VMQ
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F) (Buna-N) -20 °C – 180 °C (-4 °F – 356 °F) (FKM) / -60 °C – 180 °C (-76 °F – 356 °F) (VMQ)



II 2G 1D



AG	GL mm	H mm	mm	Number V-Ms-Ex -20 °C – 95 °C	Number V-Ms-FKM-Ex -20 °C – 180 °C	Number V-Ms-VMQ-Ex -60 °C – 180 °C
M 12 x 1,5	6,5	9,5	14	1.197.1200.50	1.198.1200.50	1.199.1200.50
M 16 x 1,5	6	9	19	1.197.1600.50	1.198.1600.50	1.199.1600.50
M 20 x 1,5	6	9,5	22	1.197.2000.50	1.198.2000.50	1.199.2000.50
M 25 x 1,5	7	10,5	30	1.197.2500.50	1.198.2500.50	1.199.2500.50
M 32 x 1,5	8	12,5	41	1.197.3200.50	1.198.3200.50	1.199.3200.50
M 40 x 1,5	8	13	46	1.197.4000.50	1.198.4000.50	1.199.4000.50
M 50 x 1,5	9	15	55	1.197.5000.50	1.198.5000.50	1.199.5000.50
M 63 x 1,5	10	16,5	70	1.197.6300.50	1.198.6300.50	1.199.6300.50

Plug V-Ms-Ex / V-Ms-FKM-Ex / V-Ms-VMQ-Ex

PG

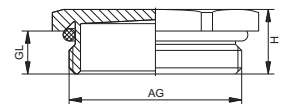


For the [international certificates](#) please see page 154 / 155 or our homepage www.hummel.com.

Material	Nickel plated brass
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
V-Ms-Ex O-Ring	Buna-N
V-Ms-FKM-Ex O-Ring	FKM
V-Ms-VMQ-Ex O-Ring	VMQ
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F) (Buna-N) -20 °C – 180 °C (-4 °F – 356 °F) (FKM) / -60 °C – 180 °C (-76 °F – 356 °F) (VMQ)



II 2G 1D



AG	GL mm	H mm	mm	Number V-Ms-Ex -20 °C – 95 °C	Number V-Ms-FKM-Ex -20 °C – 180 °C	Number V-Ms-VMQ-Ex -60 °C – 180 °C
PG 7	5	8	14	1.197.0700.01	1.198.0700.01	1.199.0700.01
PG 9	6	9	17	1.197.0900.01	1.198.0900.01	1.199.0900.01
PG 11	6	9,5	20	1.197.1100.01	1.198.1100.01	1.199.1100.01
PG 13,5	6,5	10	22	1.197.1300.01	1.198.1300.01	1.199.1300.01
PG 16	6,5	10	24	1.197.1600.01	1.198.1600.01	1.199.1600.01
PG 21	7	10,5	30	1.197.2100.01	1.198.2100.01	1.199.2100.01
PG 29	8	12,5	41	1.197.2900.01	1.198.2900.01	1.199.2900.01
PG 36	8	13	50	1.197.3600.01	1.198.3600.01	1.199.3600.01
PG 42	9	15	58	1.197.4200.01	1.198.4200.01	1.199.4200.01
PG 48	10	16,5	65	1.197.4800.01	1.198.4800.01	1.199.4800.01

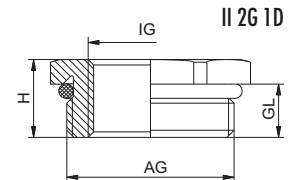
Adapter RSD-MS-Ex

Metr.



For the [international certificates](#) please see page 154 / 155 or our homepage www.hummel.com.

Material	Nickel plated brass
O-Ring	Buna-N / VMQ
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F) (Buna-N) -60 °C – 180 °C (-76 °F – 356 °F) (VMQ)



AG	IG	GL mm		Number NBR -20 °C – 95 °C	Number VMQ -60 °C – 180 °C
M 16 x 1,5	M 12 x 1,5	5	17	1.078.1612.50	1.079.1612.50
M 20 x 1,5	M 12 x 1,5	6	22	1.078.2012.50	1.079.2012.50
M 20 x 1,5	M 16 x 1,5	6	22	1.078.2016.50	1.079.2016.50
M 25 x 1,5	M 16 x 1,5	7	29	1.078.2516.50	1.079.2516.50
M 25 x 1,5	M 20 x 1,5	7	29	1.078.2520.50	1.079.2520.50
M 32 x 1,5	M 16 x 1,5	8	34	1.078.3216.50	1.079.3216.50
M 32 x 1,5	M 20 x 1,5	8	34	1.078.3220.50	1.079.3220.50
M 32 x 1,5	M 25 x 1,5	8	34	1.078.3225.50	1.079.3225.50
M 40 x 1,5	M 20 x 1,5	8	43	1.078.4020.50	1.079.4020.50
M 40 x 1,5	M 25 x 1,5	8	43	1.078.4025.50	1.079.4025.50
M 40 x 1,5	M 32 x 1,5	8	43	1.078.4032.50	1.079.4032.50
M 50 x 1,5	M 25 x 1,5	9	55	1.078.5025.50	1.079.5025.50

AG	IG	GL mm		Number NBR -20 °C – 95 °C	Number VMQ -60 °C – 180 °C
M 50 x 1,5	M 32 x 1,5	9	55	1.078.5032.50	1.079.5032.50
M 50 x 1,5	M 40 x 1,5	9	55	1.078.5040.50	1.079.5040.50
M 63 x 1,5	M 32 x 1,5	10	65	1.078.6332.50	1.079.6332.50
M 63 x 1,5	M 40 x 1,5	10	65	1.078.6340.50	1.079.6340.50
M 63 x 1,5	M 50 x 1,5	10	65	1.078.6350.50	1.079.6350.50

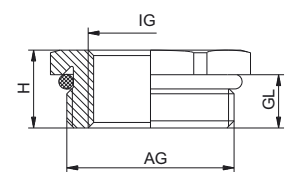
Adapter RSD-MS-Ex

PG



For the [international certificates](#) please see page 154 / 155 or our homepage www.hummel.com.

Material	Nickel plated brass
O-Ring	Buna-N / VMQ
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F) (Buna-N) -60 °C – 180 °C (-76 °F – 356 °F) (VMQ)



AG	IG	GL mm	H mm		Number NBR -20 °C – 95 °C	Number VMQ -60 °C – 180 °C
PG 9	PG 7	6	8,8	17	1.078.0907.01	1.079.0907.01
PG 11	PG 7	6	9	20	1.078.1107.01	1.079.1107.01
PG 11	PG 9	6	9	20	1.078.1109.01	1.079.1109.01
PG 13,5	PG 9	6,5	9,5	22	1.078.1309.01	1.079.1309.01
PG 16	PG 9	6,5	9,5	24	1.078.1609.01	1.079.1609.01
PG 16	PG 11	6,5	9,5	24	1.078.1611.01	1.079.1611.01
PG 16	PG 13,5	6,5	9,5	24	1.078.1613.01	1.079.1613.01
PG 21	PG 11	7	10,3	30	1.078.2111.01	1.079.2111.01
PG 21	PG 13,5	7	10,3	30	1.078.2113.01	1.079.2113.01
PG 21	PG 16	7	10,3	30	1.078.2116.01	1.079.2116.01
PG 29	PG 16	8	11,5	40	1.078.2916.01	1.079.2916.01
PG 29	PG 21	8	11,5	40	1.078.2921.01	1.079.2921.01

AG	IG	GL mm	H mm		Number NBR -20 °C – 95 °C	Number VMQ -60 °C – 180 °C
PG 36	PG 21	9	12,5	50	1.078.3621.01	1.079.3621.01
PG 36	PG 29	9	12,5	50	1.078.3629.01	1.079.3629.01
PG 42	PG 29	10	13,5	57	1.078.4229.01	1.079.4229.01
PG 42	PG 36	10	13,5	57	1.078.4236.01	1.079.4236.01
PG 48	PG 36	10	13,5	64	1.078.4836.01	1.079.4836.01
PG 48	PG 42	10	13,5	64	1.078.4842.01	1.079.4842.01

Plug V-Ms-Ex d

Metr., NPT

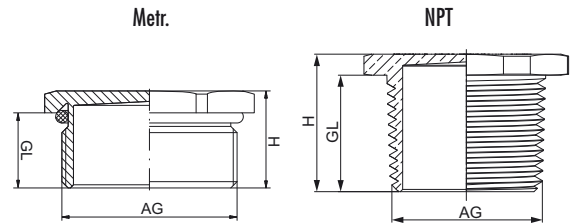


Material	Nickel plated brass
O-Ring	Buna-N /FKM /VMQ
Protection	IP 68 – 10 bar /IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F) (Buna-N) -20 °C – 180 °C (-4 °F – 356 °F) (FKM) / -60 °C – 180 °C (-76 °F – 356 °F) (VMQ)



II 2G 1D

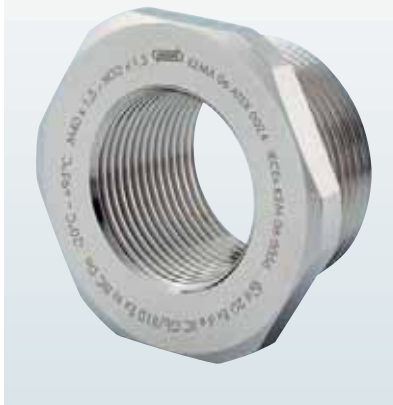
For the [international certificates](#) please see page 154 / 155 or our homepage www.hummel.com.



AG	GL mm	H mm	mm	Number without O-Ring	Number Buna-N -20 °C – 95 °C	Number FKM -20 °C – 180 °C	Number VMQ -60 °C – 180 °C
M 12 x 1,5	16	21	14		1.875.1200.50	1.876.1200.50	1.877.1200.50
M 16 x 1,5	16	20	19		1.875.1600.50	1.876.1600.50	1.877.1600.50
M 20 x 1,5	16	19,5	22		1.875.2000.50	1.876.2000.50	1.877.2000.50
M 25 x 1,5	16	19,5	30		1.875.2500.50	1.876.2500.50	1.877.2500.50
M 32 x 1,5	16	20,5	41		1.875.3200.50	1.876.3200.50	1.877.3200.50
M 40 x 1,5	16	21	46		1.875.4000.50	1.876.4000.50	1.877.4000.50
M 50 x 1,5	16	22	55		1.875.5000.50	1.876.5000.50	1.877.5000.50
M 63 x 1,5	16	22,5	70		1.875.6300.50	1.876.6300.50	1.877.6300.50
NPT 3/8"	16	20	16	1.877.3800.70			
NPT 1/2"	20	23,5	24	1.877.1200.70			
NPT 3/4"	20,5	24	30	1.877.3400.70			
NPT 1"	25	29,5	41	1.877.1000.70			
NPT 1 1/4"	26	31	46	1.877.5400.70			
NPT 1 1/2"	26,5	32,5	55	1.877.6400.70			

Adapter RSD-MS-Ex d

Metr.

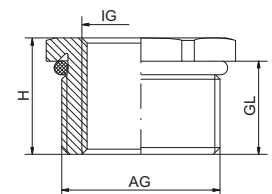


Material	Nickel plated brass
O-Ring	Buna-N / FKM
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F) (Buna-N) -60 °C – 180 °C (-76 °F – 356 °F) (VMQ)



II 2G 1D Ex d IIC

For the [international certificates](#) please see page 154 / 155 or our homepage www.hummel.com.



AG	IG	GL mm	H mm	⌀ mm	Number	
					Buna-N -20 °C – 95 °C	VMQ -60 °C – 180 °C
M 16 x 1,5	M 12 x 1,5	16	19	19	1.878.1612.50	1.879.1612.50
M 20 x 1,5	M 12 x 1,5	16	19,5	22	1.878.2012.50	1.879.2012.50
M 20 x 1,5	M 16 x 1,5	16	19,5	22	1.878.2016.50	1.879.2016.50
M 25 x 1,5	M 16 x 1,5	16	19,5	30	1.878.2516.50	1.879.2516.50
M 25 x 1,5	M 20 x 1,5	16	19,5	30	1.878.2520.50	1.879.2520.50
M 32 x 1,5	M 16 x 1,5	16	20,5	41	1.878.3216.50	1.879.3216.50
M 32 x 1,5	M 20 x 1,5	16	20,5	41	1.878.3220.50	1.879.3220.50
M 32 x 1,5	M 25 x 1,5	16	20,5	41	1.878.3225.50	1.879.3225.50
M 40 x 1,5	M 20 x 1,5	16	21	46	1.878.4020.50	1.879.4020.50
M 40 x 1,5	M 25 x 1,5	16	21	46	1.878.4025.50	1.879.4025.50
M 40 x 1,5	M 32 x 1,5	16	21	46	1.878.4032.50	1.879.4032.50
M 50 x 1,5	M 25 x 1,5	16	21	55	1.878.5025.50	1.879.5025.50
M 50 x 1,5	M 32 x 1,5	16	21	55	1.878.5032.50	1.879.5032.50

Plug V-INOX-Ex

Metr.

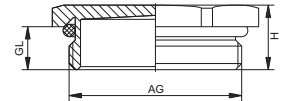


For the [international certificates](#) please see page 154 / 155 or our homepage www.hummel.com.

Material	INOX (1.4305)
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
V-INOX-Ex O-Ring	Buna-N
V-INOX-FKM-Ex O-Ring	FKM
V-INOX-VMQ-Ex O-Ring	VMQ
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F) (Buna-N) -20 °C – 180 °C (-4 °F – 356 °F) (FKM) / -60 °C – 180 °C (-76 °F – 356 °F) (VMQ)



II 2G 1D



AG	GL mm	H mm	mm	Number V-INOX-Ex -20 °C – 95 °C	Number V-INOX-FKM-Ex -20 °C – 180 °C	Number V-INOX-VMQ-Ex -60 °C – 180 °C
M 12 x 1,5	6,5	9,5	14	1.192.1200.50	1.193.1200.50	1.194.1200.50
M 16 x 1,5	6	9	19	1.192.1600.50	1.193.1600.50	1.194.1600.50
M 20 x 1,5	6	9,5	22	1.192.2000.50	1.193.2000.50	1.194.2000.50
M 25 x 1,5	7	10,5	30	1.192.2500.50	1.193.2500.50	1.194.2500.50
M 32 x 1,5	8	12,5	41	1.192.3200.50	1.193.3200.50	1.194.3200.50
M 40 x 1,5	8	13	46	1.192.4000.50	1.193.4000.50	1.194.4000.50
M 50 x 1,5	9	15	55	1.192.5000.50	1.193.5000.50	1.194.5000.50
M 63 x 1,5	10	16,5	70	1.192.6300.50	1.193.6300.50	1.194.6300.50

Plug V-INOX-Ex

PG

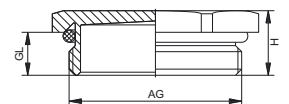


For the [international certificates](#) please see page 154 / 155 or our homepage www.hummel.com.

Material	INOX (1.4305)
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
V-INOX-Ex O-Ring	Buna-N
V-INOX-FKM-Ex O-Ring	FKM
V-INOX-VMQ-Ex O-Ring	VMQ
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F) (Buna-N) -20 °C – 180 °C (-4 °F – 356 °F) (FKM) / -60 °C – 180 °C (-76 °F – 356 °F) (VMQ)



II 2G 1D



AG	GL mm	H mm	mm	Number V-INOX-Ex -20 °C – 95 °C	Number V-INOX-FKM-Ex -20 °C – 180 °C	Number V-INOX-VMQ-Ex -60 °C – 180 °C
PG 7	5	8	14	1.192.0700.01	1.193.0700.01	1.194.0700.01
PG 9	6	9	17	1.192.0900.01	1.193.0900.01	1.194.0900.01
PG 11	6	9,5	20	1.192.1100.01	1.193.1100.01	1.194.1100.01
PG 13,5	6,5	10	22	1.192.1300.01	1.193.1300.01	1.194.1300.01
PG 16	6,5	10	24	1.192.1600.01	1.193.1600.01	1.194.1600.01
PG 21	7	10,5	30	1.192.2100.01	1.193.2100.01	1.194.2100.01
PG 29	8	12,5	41	1.192.2900.01	1.193.2900.01	1.194.2900.01
PG 36	8	13	50	1.192.3600.01	1.193.3600.01	1.194.3600.01
PG 42	9	15	58	1.192.4200.01	1.193.4200.01	1.194.4200.01
PG 48	10	16,5	65	1.192.4800.01	1.193.4800.01	1.194.4800.01

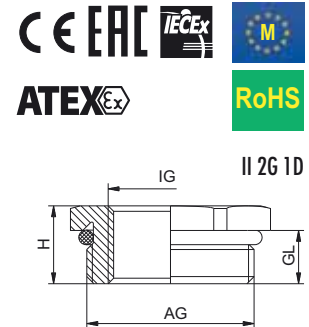
Adapter RSD-INOX-Ex

Metr.



For the [international certificates](#) please see page 154 / 155 or our homepage www.hummel.com.

Material	INOX (1.4305)
O-Ring	Buna-N / VMQ
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F) (Buna-N) -60 °C – 180 °C (-76 °F – 356 °F) (VMQ)



AG	IG	GL mm	H mm	Number Buna-N -20 °C – 95 °C	Number VMQ -60 °C – 180 °C
M 16 x 1,5	M 12 x 1,5	5	17	1.098.1612.50	1.099.1612.50
M 20 x 1,5	M 12 x 1,5	6	22	1.098.2012.50	1.099.2012.50
M 20 x 1,5	M 16 x 1,5	6	22	1.098.2016.50	1.099.2016.50
M 25 x 1,5	M 16 x 1,5	7	27	1.098.2516.50	1.099.2516.50
M 25 x 1,5	M 20 x 1,5	7	27	1.098.2520.50	1.099.2520.50
M 32 x 1,5	M 16 x 1,5	8	34	1.098.3216.50	1.099.3216.50
M 32 x 1,5	M 20 x 1,5	8	34	1.098.3220.50	1.099.3220.50
M 32 x 1,5	M 25 x 1,5	8	34	1.098.3225.50	1.099.3225.50
M 40 x 1,5	M 20 x 1,5	8	43	1.098.4020.50	1.099.4020.50
M 40 x 1,5	M 25 x 1,5	8	43	1.098.4025.50	1.099.4025.50
M 40 x 1,5	M 32 x 1,5	8	43	1.098.4032.50	1.099.4032.50
M 50 x 1,5	M 25 x 1,5	9	55	1.098.5025.50	1.099.5025.50

AG	IG	GL mm	H mm	Number Buna-N -20 °C – 95 °C	Number VMQ -60 °C – 180 °C
M 50 x 1,5	M 32 x 1,5	9	55	1.098.5032.50	1.099.5032.50
M 50 x 1,5	M 40 x 1,5	9	55	1.098.5040.50	1.099.5040.50
M 63 x 1,5	M 32 x 1,5	10	65	1.098.6332.50	1.099.6332.50
M 63 x 1,5	M 40 x 1,5	10	65	1.098.6340.50	1.099.6340.50
M 63 x 1,5	M 50 x 1,5	10	65	1.098.6350.50	1.099.6350.50

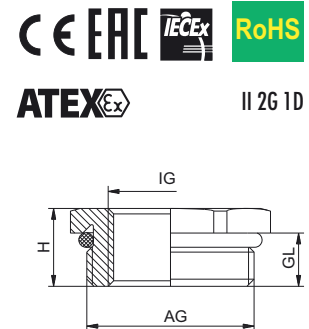
Adapter RSD-INOX-Ex

PG



For the [international certificates](#) please see page 154 / 155 or our homepage www.hummel.com.

Material	INOX (1.4305)
O-Ring	Buna-N / VMQ
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F) (Buna-N) -60 °C – 180 °C (-76 °F – 356 °F) (VMQ)



AG	IG	GL mm	H mm	Number Buna-N -20 °C – 95 °C	Number VMQ -60 °C – 180 °C
PG 9	PG 7	6	8,8	1.098.0907.01	1.099.0907.01
PG 11	PG 7	6	9	1.098.1107.01	1.099.1107.01
PG 11	PG 9	6	9	1.098.1109.01	1.099.1109.01
PG 13,5	PG 9	6,5	9,5	1.098.1309.01	1.099.1309.01
PG 13,5	PG 11	6,5	9,5	1.098.1311.01	1.099.1311.01
PG 16	PG 9	6,5	9,5	1.098.1609.01	1.099.1609.01
PG 16	PG 11	6,5	9,5	1.098.1611.01	1.099.1611.01
PG 16	PG 13,5	6,5	9,5	1.098.1613.01	1.099.1613.01
PG 21	PG 11	7	10,3	1.098.2111.01	1.099.2111.01
PG 21	PG 13,5	7	10,3	1.098.2113.01	1.099.2113.01
PG 21	PG 16	7	10,3	1.098.2116.01	1.099.2116.01
PG 29	PG 16	8	11,5	1.098.2916.01	1.099.2916.01

AG	IG	GL mm	H mm	Number Buna-N -20 °C – 95 °C	Number VMQ -60 °C – 180 °C
PG 29	PG 21	8	11,5	1.098.2921.01	1.099.2921.01
PG 36	PG 21	9	12,5	1.098.3621.01	1.099.3621.01
PG 36	PG 29	9	12,5	1.098.3629.01	1.099.3629.01
PG 42	PG 29	10	13,5	1.098.4229.01	1.099.4229.01
PG 42	PG 36	10	13,5	1.098.4236.01	1.099.4236.01
PG 48	PG 36	10	13,5	1.098.4836.01	1.099.4836.01
PG 48	PG 42	10	13,5	1.098.4842.01	1.099.4842.01

Plug V-INOX-Ex d Metr., NPT

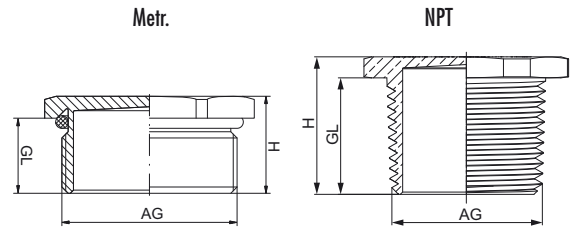


Material	INOX (1.4404)
O-Ring	Buna-N /FKM /VMQ
Protection	IP 68 – 10 bar /IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F) (Buna-N) -20 °C – 180 °C (-4 °F – 356 °F) (FKM) / -60 °C – 180 °C (-76 °F – 356 °F) (VMQ)



II 2G 1D Ex d IIC

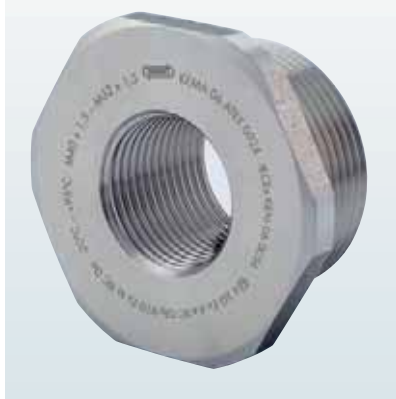
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AG	GL mm	H mm	mm	Number without O-Ring	Number Buna-N -20 °C – 95 °C	Number FKM -20 °C – 180 °C	Number VMQ -60 °C – 180 °C
M 12 x 1,5	16	19	14		1.895.1200.50	1.896.1200.50	1.897.1200.50
M 16 x 1,5	16	19	19		1.895.1600.50	1.896.1600.50	1.897.1600.50
M 20 x 1,5	16	19,5	22		1.895.2000.50	1.896.2000.50	1.897.2000.50
M 25 x 1,5	16	19,5	30		1.895.2500.50	1.896.2500.50	1.897.2500.50
M 32 x 1,5	16	20,5	41		1.895.3200.50	1.896.3200.50	1.897.3200.50
M 40 x 1,5	16	21	46		1.895.4000.50	1.896.4000.50	1.897.4000.50
M 50 x 1,5	16	22	55		1.895.5000.50	1.896.5000.50	1.897.5000.50
M 63 x 1,5	16	22,5	70		1.895.6300.50	1.896.6300.50	1.897.6300.50
NPT 3/8"	16	20	19	1.897.3800.70			
NPT 1/2"	20	23,5	24	1.897.1200.70			
NPT 3/4"	20,5	24	30	1.897.3400.70			
NPT 1"	25	29,5	41	1.897.1000.70			
NPT 1 1/4"	26	31	46	1.897.5400.70			
NPT 1 1/2"	26,5	32,5	55	1.897.6400.70			

Adapter RSD-INOX-Ex d

Metr.

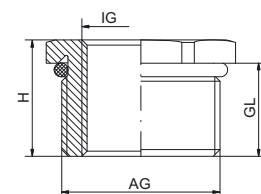


Material	INOX (1.4404)
O-Ring	Buna-N / FKM
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F) (Buna-N) -60 °C – 180 °C (-76 °F – 356 °F) (VMQ)



II 2G 1D Ex d IIC

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AG	IG	GL mm	H mm	mm	Number	
					Buna-N -20 °C – 95 °C	VMQ -60 °C – 180 °C
M 16 x 1,5	M 12 x 1,5	16	19	19	1.898.1612.50	1.899.1612.50
M 20 x 1,5	M 12 x 1,5	16	19,5	22	1.898.2012.50	1.899.2012.50
M 20 x 1,5	M 16 x 1,5	16	19,5	22	1.898.2016.50	1.899.2016.50
M 25 x 1,5	M 16 x 1,5	16	19,5	30	1.898.2516.50	1.899.2516.50
M 25 x 1,5	M 20 x 1,5	16	19,5	30	1.898.2520.50	1.899.2520.50
M 32 x 1,5	M 16 x 1,5	16	20,5	41	1.898.3216.50	1.899.3216.50
M 32 x 1,5	M 20 x 1,5	16	20,5	41	1.898.3220.50	1.899.3220.50
M 32 x 1,5	M 25 x 1,5	16	20,5	41	1.898.3225.50	1.899.3225.50
M 40 x 1,5	M 20 x 1,5	16	21	46	1.898.4020.50	1.899.4020.50
M 40 x 1,5	M 25 x 1,5	16	21	46	1.898.4025.50	1.899.4025.50
M 40 x 1,5	M 32 x 1,5	16	21	46	1.898.4032.50	1.899.4032.50



TECHNICAL INFORMATION

Other International Ex-Certifications



South Korea KTL 14-KB4B0



Russia PPC 00-27485
POCC-DE-RG05-B03140, POCC-RU-0001-11TB05



China CQST CNEEx06.1147U
CQST CNEEx06.1148U



Brazil INMETRO MC AEX-4665-X INMETRO MC AEX-6203-X
INMETRO MC AEX-5233-X INMETRO MC AEX-6410-X,
INMETRO MC AEX-5234-X INMETRO MC AEX-6411-X
INMETRO MC AEX-5235-X INMETRO MC AEX-6412-X
INMETRO MC AEX-8528 INMETRO MC AEX-8822-X



IECEX BVS 07.0019X IECEX KEM 06.0056
IECEX BVS 07.0021 IECEX KEM 07.0012
IECEX BVS 07.0020X IECEX KEM 07.0014X
IECEX BVS 07.0022X IECEX KEM 07.0013X
IECEX BVS 10.0078X

IECEX DEK 12.0039X

Page	Article	Number	Temperature Range	Approval G (Gas)	Approval D (Dust)	EC-Type Examination Certificate
147	RSD-MS-Ex	1.078.*	-20 °C–95 °C	x	x	DMT 03 ATEX E 049
147	RSD-MS-Ex	1.079.*	-60 °C–180 °C	x	x	DMT 03 ATEX E 049
151	RSD-INOX-Ex	1.098.*	-20 °C–180 °C	x	x	DMT 03 ATEX E 049
151	RSD-INOX-Ex	1.099.*	-60 °C–180 °C	x	x	DMT 03 ATEX E 049
150	V-INOX-Ex	1.192.*	-20 °C–95 °C	x	x	DMT 03 ATEX E 049
150	V-INOX-FKM-Ex	1.193.*	-20 °C–180 °C	x	x	DMT 03 ATEX E 049
150	V-INOX-VMQ-Ex	1.194.*	-60 °C–180 °C	x	x	DMT 03 ATEX E 049
146	V-MS-Ex	1.197.*	-20 °C–95 °C	x	x	DMT 03 ATEX E 049
146	V-MS-FKM-Ex	1.198.*	-20 °C–180 °C	x	x	DMT 03 ATEX E 049
146	V-MS-VMQ-Ex	1.199.*	-60 °C–180 °C	x	x	DMT 03 ATEX E 049
134	HSK-K-MZ-Ex	1.215.*	-20 °C–70 °C	x	x	KEMA 99 ATEX 6971 X
116, 117	HSK-K-Ex-Active	1.292.*	-20 °C–85 °C	x	x	BVS 14 ATEX E 025 X
145	HSK-V-Ex / HSK-V-Ex Mz	1.296.*	-20 °C–95 °C	x	x	BVS 03 ATEX E 298 X
144	V-Ex	1.297.*	-20 °C–90 °C	x	x	DMT 03 ATEX E 049
136	HSK-M-FLAKA-Ex	1.689.*	-20 °C–95 °C	x	x	DMT 03 ATEX E 051 X
106, 107	EXIOS Standard	1.605.*	-60 °C–105 °C	x	x	BVS 10 ATEX E 062 X
110, 111	EXIOS Barrier	1.606.*	-60 °C–85 °C	x	x	Sira 11 ATEX 1110 X
112	EXIOS A2F	1.608.*	-60 °C–105 °C	x	x	DEKRA 12 ATEX 0139 X
120 – 123, 128, 129	HSK-M / EMC-Ex	1.610.* / 1.616.*	-20 °C–95 °C	x	x	DMT 03 ATEX E 051 X
131, 132, 137, 138	HSK-MZ / EMC-Ex	1.611.* / 1.617.*	-20 °C–95 °C	x	x	DMT 03 ATEX E 051 X
124	HSK-INOX-Ex	1.612.*	-20 °C–95 °C	x	x	DMT 03 ATEX E 051 X
140	HSK-M-Ex d	1.622.*	-60 °C–105 °C	x	x	KEMA 99 ATEX 6968 X
141	HSK-MZ-Ex d	1.628.*	-60 °C–105 °C	x	x	KEMA 99 ATEX 6968 X
142	HSK-INOX-Ex d	1.632.*	-60 °C–105 °C	x	x	KEMA 99 ATEX 6968 X
142	HSK-INOX-PVDF-Ex d	1.633.*	-20 °C–130 °C	x	x	KEMA 99 ATEX 6968 X
140	HSK-M-PVDF-Ex d	1.634.*	-20 °C–130 °C	x	x	KEMA 99 ATEX 6968 X
126, 127	HSK-M-EMC-D-Ex	1.636.*	-20 °C–95 °C	x	x	DMT 03 ATEX E 051 X
126, 127	HSK-M-EMC-D-Ex	1.637.*	-60 °C–95 °C	x	x	KEMA 99 ATEX 6971 X
120 – 123, 128, 129	HSK-M / EMC-Ex	1.640.* / 1.646.*	-60 °C–95 °C	x	x	KEMA 99 ATEX 6971 X
131, 132	HSK-MZ / EMC-Ex	1.647.*	-60 °C–95 °C	x	x	KEMA 99 ATEX 6971 X
124	HSK-INOX-Ex	1.642.*	-60 °C–95 °C	x	x	KEMA 99 ATEX 6971 X
120 – 123	HSK-M-PVDF-Ex	1.660.*	-20 °C–130 °C	x	x	KEMA 99 ATEX 6971 X
137, 138	HSK-MZ-PVDF-Ex	1.661.*	-20 °C–130 °C	x	x	KEMA 99 ATEX 6971 X
124	HSK-INOX-PVDF-Ex	1.662.*	-20 °C–130 °C	x	x	KEMA 99 ATEX 6971 X
129	HSK-M-EMC-PVDF-Ex	1.666.*	-20 °C–130 °C	x	x	KEMA 99 ATEX 6971 X
131, 132	HSK-MZ-EMC-PVDF-Ex	1.667.*	-20 °C–130 °C	x	x	KEMA 99 ATEX 6971 X
135	HSK-M-Multi-Ex	1.687.*	-20 °C–95 °C	x	x	DMT 03 ATEX E 051 X
148, 152	V-MS- / INOX-Ex d	1.875.* / 1.895.*	-20 °C–95 °C	x	x	KEMA 06 ATEX 0024
148, 152	V-MS- / INOX-FKM-Ex d	1.876.* / 1.896.*	-20 °C–180 °C	x	x	KEMA 06 ATEX 0024
148, 152	V-MS- / INOX-VMQ-Ex d	1.877.* / 1.897.*	-60 °C–180 °C	x	x	KEMA 06 ATEX 0024
149, 153	RSD-MS- / INOX-Ex d	1.878.* / 1.898.*	-20 °C–95 °C	x	x	KEMA 06 ATEX 0024
149, 153	RSD-MS- / INOX-Ex d	1.879.* / 1.899.*	-60 °C–180 °C	x	x	KEMA 06 ATEX 0024

1. Code		2. Code																		
		Penetration of water																		
		Non-protected																		
		protection against dripping water																		
		Protected against vertically falling water (drops when device is tilted up to 15°)																		
		Water sprayed at an angle up to 60° on either side of the vertical (shall have no harmful)																		
		Water splashed from any direction shall have no harmful effects																		
		Water projected in jets from any direction shall have no harmful effects																		
		Water projected in powerful jets from any direction shall have no harmful effects																		
		protection against temporary submersion																		
		protection against permanent submersion																		
		IP x0																		
		IP x1																		
		IP x2																		
		IP x3																		
		IP x4																		
		IP x5																		
		IP x6																		
		IP x7																		
		IP x8																		
Protection against human access to hazardous parts																				
Protection of equipment against penetration of solid foreign objects																				
Non-protected	Non-protected	IP 0x	IP 00																	
Protected against access to hazardous parts with the back of the hand	Protected against solid foreign objects larger in diameter than 50 mm	IP 1x	IP 10	IP 11	IP 12															
Protected against access to hazardous parts with a finger	Protected against solid foreign object larger in diameter than 12,5 mm	IP 2x	IP 20	IP 21	IP 22	IP 23														
Protected against access to hazardous parts with a tool larger in diameter than 25 mm	Protected against solid foreign objects larger in diameter than 2,5 mm	IP 3x	IP 30	IP 31	IP 32	IP 33	IP 34													
Protected against access to hazardous parts with a wire larger in diameter than 1,0 mm	Protected against solid foreign objects larger in diameter than 1 mm	IP 4x	IP 40	IP 41	IP 42	IP 43	IP 44													
Protected against access to hazardous parts with a wire larger in diameter than 1,0 mm	Prevents penetration of dust sufficient to cause damage inside the equipment	IP 5x	IP 50					IP 54	IP 55											
Protected against access to hazardous parts with a wire larger in diameter than 1,0 mm	Dust proof	IP 6x	IP 60							IP 65	IP 66	IP 67	IP 68							

Product Material Abbreviations

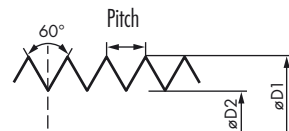
CR	Chloroprene rubber
FKM	Fluorelastomer
Ms	Nickel plated brass
NBR	Buna-N
PA	Polyamide
PE	Polyethylene
PP	Polypropylene
PVC	Polyvinylchloride
PVDF	Polyvinylidenfluoride
SB	Styrene Butadiene
VMQ	Silicone

Installation Instructions

Multi hole inserts: Cable diameter should not be less than 20% of hole diameter and the difference between cable diameter and hole should never exceed 1 mm (.04").

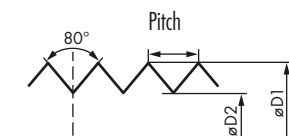
Flat cable inserts: The clamping range of the cable used may not deviate from the manufacturer-specified minimum values by more than 1 mm in length and 1 mm in width. The geometries of the cable and the insert hole must be compatible (semicircular or straight at the sides).

Metric ISO Thread Specifications



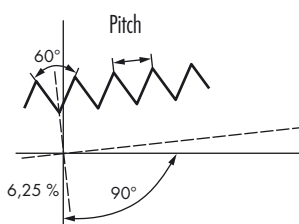
Size	Pitch mm	Outside-Ø D1 mm	Inside-Ø D2 mm	Through hole mm
M 12 x 1,5	1,5	12	10,38	12,2
M 16 x 1,5	1,5	16	14,38	16,2
M 20 x 1,5	1,5	20	18,38	20,2
M 25 x 1,5	1,5	25	23,38	25,2
M 32 x 1,5	1,5	32	30,38	32,2
M 40 x 1,5	1,5	40	38,38	40,2
M 50 x 1,5	1,5	50	48,38	50,2
M 63 x 1,5	1,5	63	61,38	63,2

PG Thread Specifications



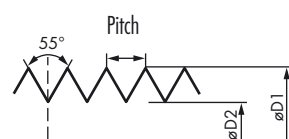
Size	Pitch mm	Outside-Ø D1 mm	Inside-Ø D2 mm	Through hole mm
PG 7	1,270	12,5	11,28	12,7
PG 9	1,410	15,2	13,86	15,4
PG 11	1,410	18,6	17,26	18,8
PG 13,5	1,410	20,4	19,06	20,7
PG 16	1,410	22,5	21,16	22,8
PG 21	1,588	28,3	26,78	28,6
PG 29	1,588	37,0	35,48	37,4
PG 36	1,588	47,0	45,48	47,5
PG 42	1,588	54,0	52,48	54,5
PG 48	1,588	59,3	57,78	59,8

NPT Thread Specifications



Size	Pitch mm	Outside-Ø mm	Number of pitches n
1/4" NPT	1,411	13,716	18
3/8" NPT	1,411	17,145	18
1/2" NPT	1,814	21,336	14
3/4" NPT	1,814	26,67	14
1" NPT	2,208	33,4	11 1/2
1 1/4" NPT	2,208	42,164	11 1/2
1 1/2" NPT	2,208	48,26	11 1/2
2" NPT	2,208	60,325	11 1/2
2 1/2" NPT	3,175	73,025	8
3" NPT	3,175	88,9	8
3 1/2" NPT	3,175	101,6	8

British G Thread Specifications



Size	Pitch mm	Outside-Ø D1 mm	Inside-Ø D2 mm	Through hole mm
G 1/4"	1,337	13,157	11,445	13,4
G 3/8"	1,337	16,662	14,950	17,0
G 1/2"	1,814	20,955	18,631	21,3
G 5/8"	1,814	26,441	24,117	26,8
G 1"	2,309	33,249	30,291	33,7
G 1 1/4"	2,309	41,910	38,952	42,4
G 1 1/2"	2,309	47,803	44,845	48,3
G 2"	2,309	59,614	56,656	60,2
G 2 1/2"	2,309	75,184	72,226	75,7
G 3"	2,309	87,884	84,926	88,5
G 3 1/2"	2,309	100,330	97,372	101,0
G 4"	2,309	113,030	110,072	114,0

ASSEMBLY INSTRUCTIONS

HSK-M-EMC / METRICA-M-EMC



Step 1

- // Strip cable
- // Expose braided shield



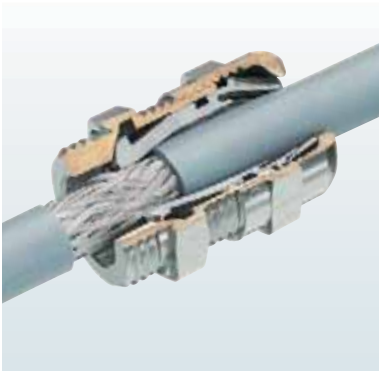
Step 2

- // Feed cable through dome nut and clamping insert
- // Fold braided shield over clamping insert
- // Make sure that braided shield overlaps the O-Ring by 3/32" (2 mm)



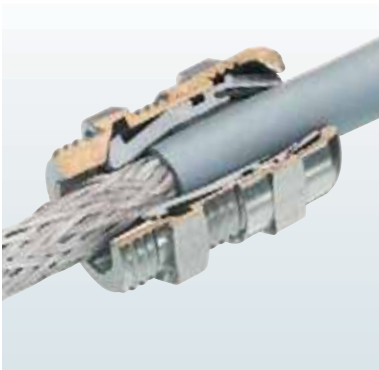
Step 3

- // Push clamping insert into body and tighten dome nut
- // Assemble into housing
- // Finished!



Option 1 – Feed-through of cable and shield (braided or foil)

- // Expose shield approximately 7/16" (10 mm)
- // Insert cable into fitting until the shield reaches the contact position
- // Tighten dome nut



Option 2 – Feed-through of shield (braided or foil)

- // Remove cable jacket to expose the shield as required
- // Insert cable into fitting until the shield reaches the contact position
- // Tighten dome nut



Option 3 – Termination of the braided shield in the fitting

- // Strip cable jacket and braided shield to different lengths
- // For small diameter cables fold the braided shield back over the cable jacket
- // Insert cable into fitting until the shield reaches the contact position
- // Tighten dome nut

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