HUMMEL

smart & reliable connections

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.

connections

HSK-INDUSTRY STANDARD

also with ATEX IECEx

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

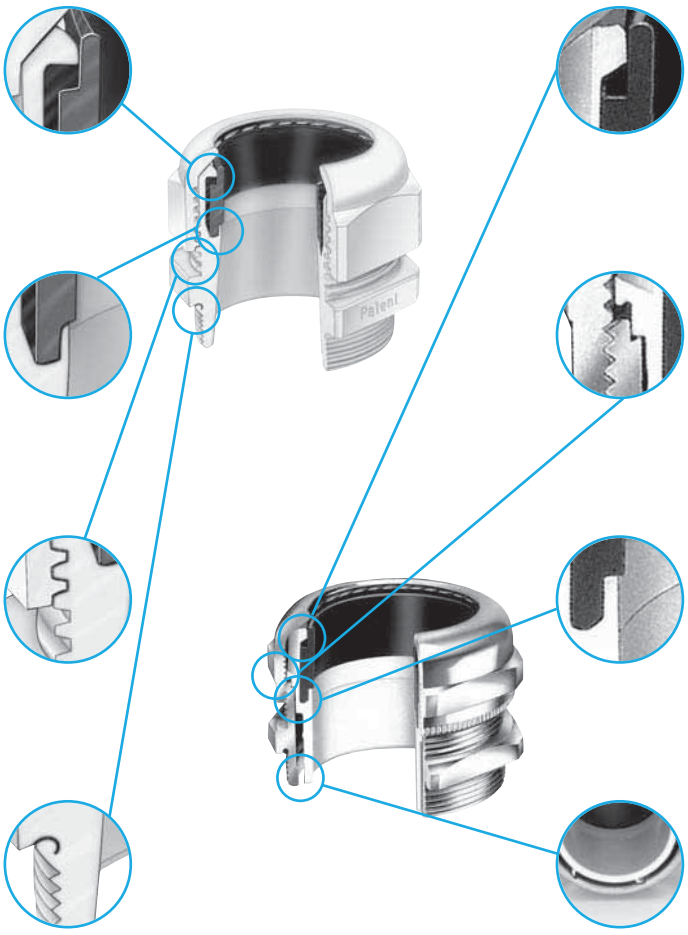
HSK-K

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

Products starting on page 13

also with ATEX IECEx

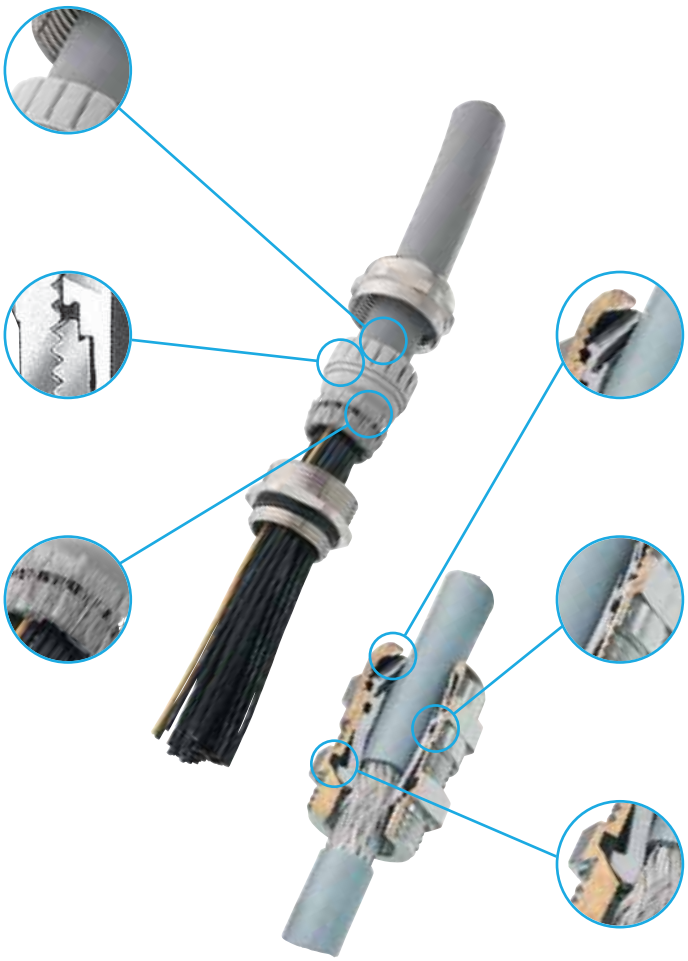
// Conforming to RoHS and REACH / SVHC
// Free of conflict minerals
// Halogen- and phospherous-free
// Fire protection class V0 according to UL 94
// Protection IP 66 and IP 68 – 10 bar according to DIN EN 60529
// Protection IP 69K according to DIN 40050-9
// Quick assembly and reliable grounding of 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

Products on page 42 / 43

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

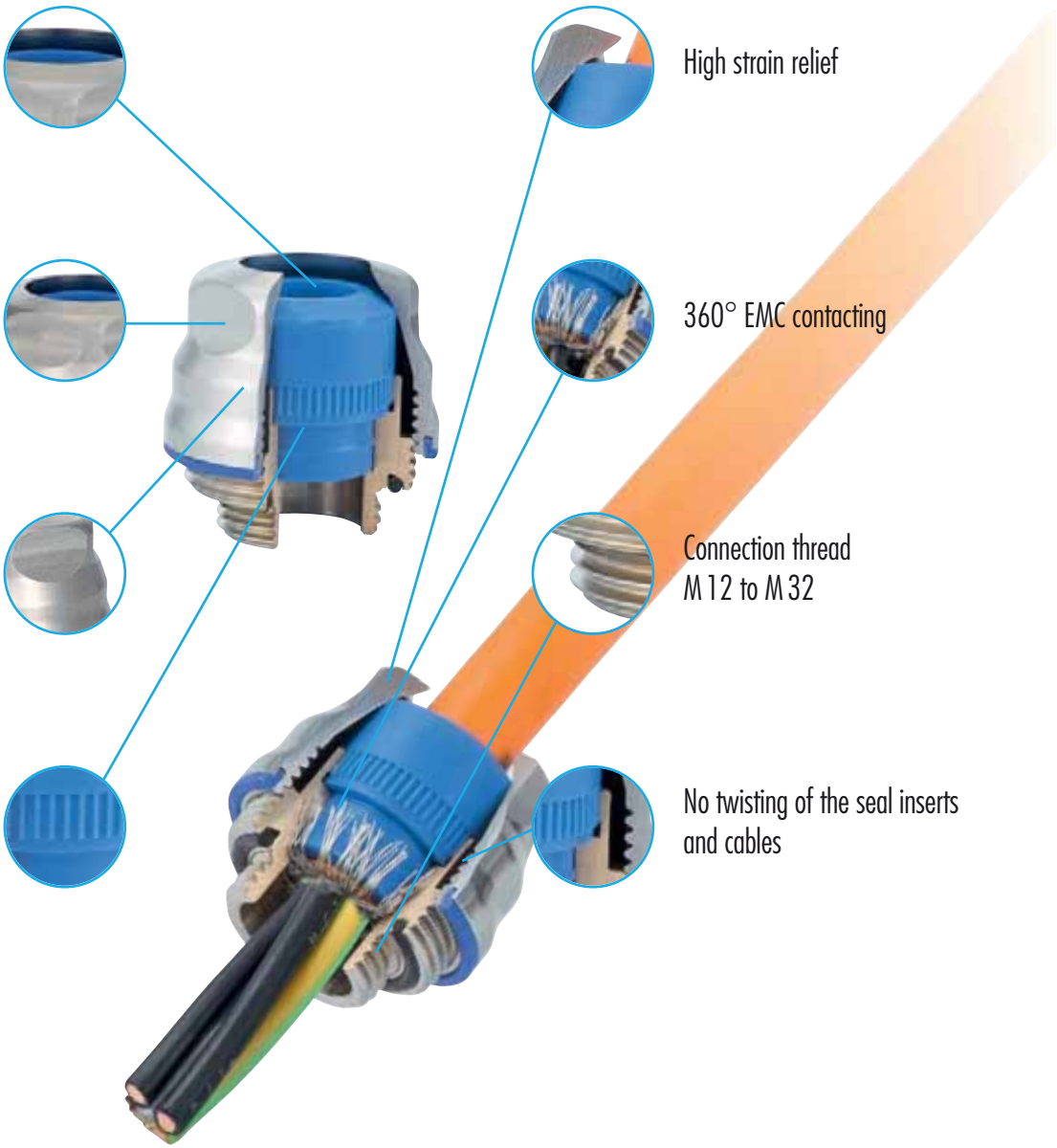
// Fast and easy assembly without special tools
// Surface roughness ≤ Ra 0,8 µm
// Resistant stainless steel enclosure
// High chemical resistance

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

Product on page 42

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	

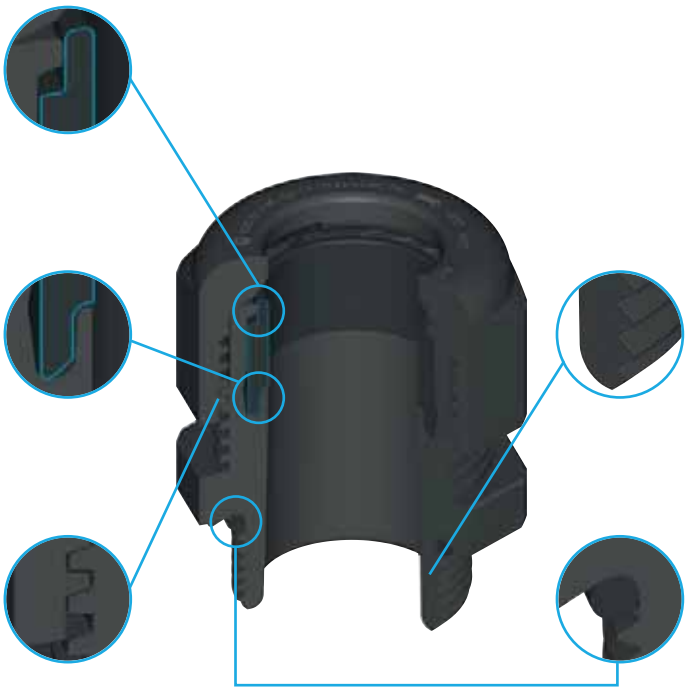
Product on page 116 – 119

- // 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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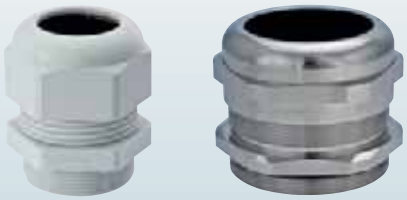

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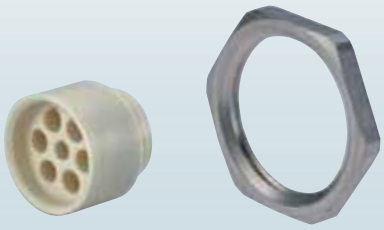

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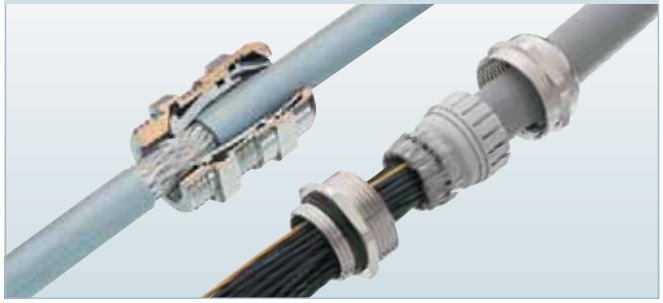

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CABLE PROTECTION SYSTEMS

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 chamaeleon, 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.

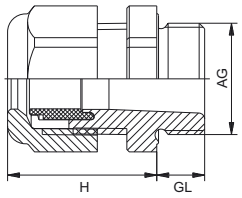
HSK CABLE GLANDS

HSK-K — Metr.

Material	Polyamide V0 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

ULFT in black color



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

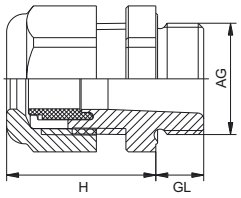
Accessories see page 75

HSK-K — Metr.-elongated

Material	Polyamide V0 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

ULft in black color



AG	⌀ 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

Accessories see page 75

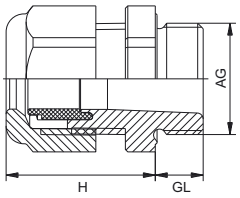
HSK CABLE GLANDS

HSK-K PG

Material	Polyamide V0 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

ULFT in black color



AG	mm	GL mm	H mm	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

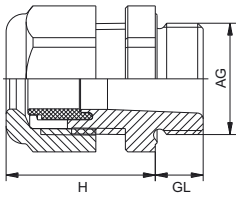
Accessories see page 75

HSK-K — PG-elongated

Material	Polyamide V0 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

ULFT in black color



AG	⌀ mm	GL mm	H mm	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

Accessories see page 75

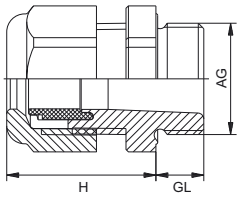
HSK CABLE GLANDS

HSK-K NPT

Material	Polyamide V0 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

ULFT in black color



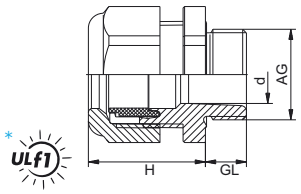
AG	⌀ mm	GL mm	H mm	mm	Number grey	Number schwarz	Number blue
NPT 3/8"	4–8	15	22	19 / 22	1.209.3800.70	1.209.3801.70	1.209.3802.70
NPT 3/8"	2–6	15	22	19 / 22	1.209.3800.71	1.209.3801.71	1.209.3802.71
NPT 1/2"	6–12	13	27	24	1.209.1200.70	1.209.1201.70	1.209.1202.70
NPT 1/2"	5–9	13	27	24	1.209.1200.71	1.209.1201.71	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

Accessories see page 75

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 V0 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)

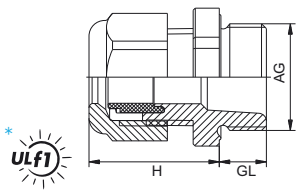


AG	⌀ mm	d mm	GL mm	H mm	mm	Number grey	Number black
PG 7	4–8	7	8	22	19	1.590.0700.14	1.590.0701.14
PG 7	2–6	7	8	22	19	1.590.0700.15	1.590.0701.15
PG 9	5–10	9	8	25	22	1.590.0900.14	1.590.0901.14
PG 9	3–7	9	8	25	22	1.590.0900.15	1.590.0901.15
PG 11	6–12	10,5	8	24	24	1.590.1100.14	1.590.1101.14
PG 11	5–9	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 V0 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	⌀ mm	GL mm	H mm	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

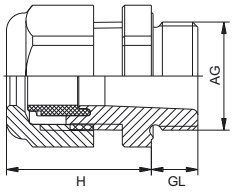
Accessories see page 75

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	⌀ 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

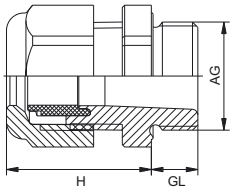
Accessories see page 75

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	⌀ 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

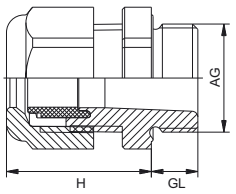
Accessories see page 75

HSK CABLE GLANDS

HSK-K-PVDF NPT

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	⌀ mm	GL mm	H mm	mm	Number
NPT 3/8"	4 – 8	15	22	19 / 22	1.299.3800.70
NPT 3/8"	2–6	15	22	19 / 22	1.299.3800.71
NPT 1/2"	6–12	13	27	24	1.299.1200.70
NPT 1/2"	5–9	13	27	24	1.299.1200.71
NPT 1/2" (16)	10–14	13	28	27	1.299.1216.70
NPT 1/2" (16)	7–12	13	28	27	1.299.1216.71
NPT 3/4"	13–18	14	31	33	1.299.3400.70
NPT 3/4"	9–16	14	31	33	1.299.3400.71

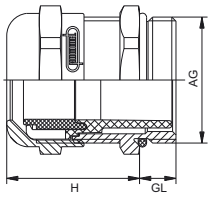
Accessories see page 75

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	⌀ mm	GL mm	H mm	mm	Number HSK-M -40 °C – 100 °C	Number 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	

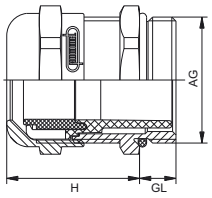
Accessories see page 75

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	⌀ mm	GL mm	H mm	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	

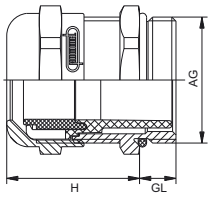
Accessories see page 75

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	⌀ 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	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

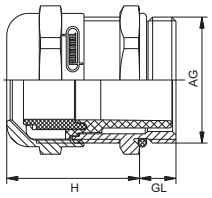
Accessories see page 75

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



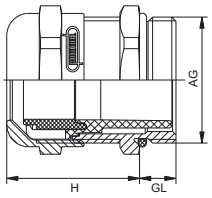
AG	⌀ mm	GL mm	H mm	mm	Number HSK-M -40 °C – 100 °C	Number HSK-M-PVDF -35 °C – 150 °C
PG 7	3–6,5	10	19	14	1.609.0700.60	1.699.0700.60
PG 7	2–5	10	19	14	1.609.0700.61	1.699.0700.61
PG 9	4–8	10	21	17	1.609.0900.60	1.699.0900.60
PG 9	2–6	10	21	17	1.609.0900.61	1.699.0900.61
PG 11	5–10	10	22	20	1.609.1100.60	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

Accessories see page 75

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	⌀ mm	GL mm	H mm	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	

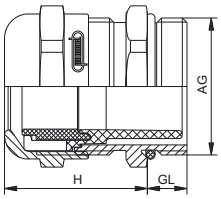
Accessories see page 75

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	⌀ mm	GL mm	H mm	mm	Number HSK-INOX 1.4305 -40 °C – 100 °C	Number HSK-INOX-PVDF 1.4305 -35 °C – 150 °C	Number HSK-INOX 1.4404 -40 °C – 100 °C	Number HSK-INOX-PVDF 1.4404 -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	

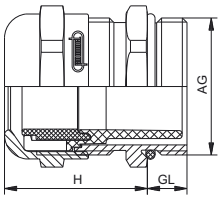
Accessories see page 75

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	⌀ mm	GL mm	H mm	mm	Number HSK-INOX 1.4305 -40 °C – 100 °C	Number HSK-INOX-PVDF 1.4305 -35 °C – 150 °C	Number HSK-INOX 1.4404 -40 °C – 100 °C	Number HSK-INOX-PVDF 1.4404 -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

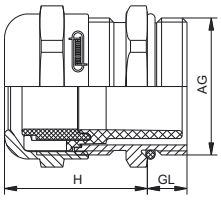
Accessories see page 75

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	⌀ 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

Accessories see page 75

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

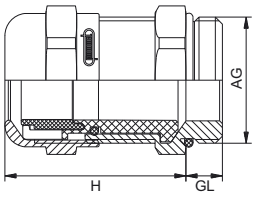
We provide variable clamping ranges, thread lengths, thread types plus different sealing materials and temperature ranges.
Our range is completed by global certifications.
If there are still open requests from your side, please contact us. We are looking forward to developing solutions together.
You profit from our vast knowledge in development, engineering and production technology.

HSK-EMC CABLE GLANDS

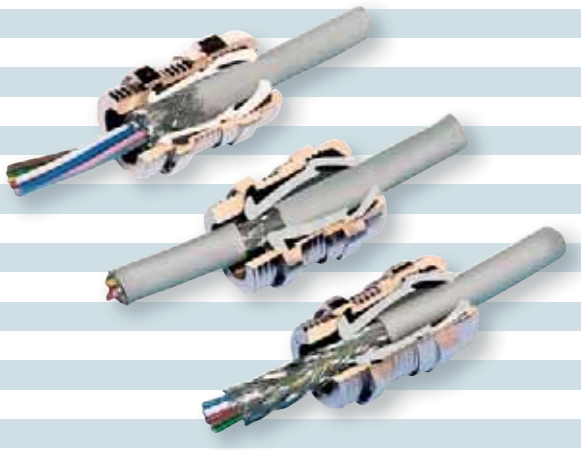
HSK-M-EMC-D — Metr., Metr.-elongated

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

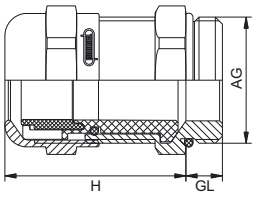


Accessories see page 75

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	⌀ 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

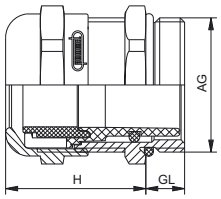
Accessories see page 75

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	⌀ 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

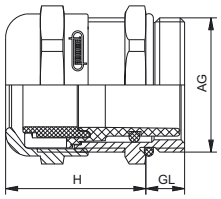
Accessories see page 75

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	⌀ 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
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			

Industrial cable glands
EXIOS
Cable glands for hazardous areas

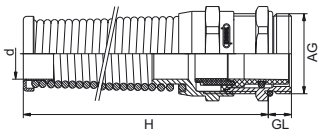
Accessories see page 75

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

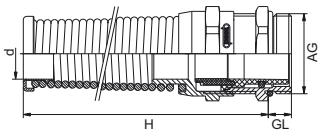
Accessories see page 75

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	⌀ mm	H mm	d mm	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		

Accessories see page 75

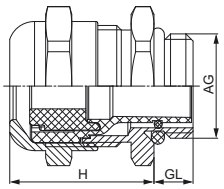
HSK-EMC CABLE GLANDS

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

CE RoHS



AG	⌀ 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

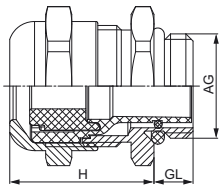
Accessories see page 75

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)

// Stainless steel 1.4404 on request



AG	⌀ mm	H mm	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

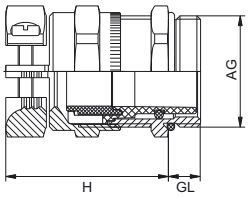
Accessories see page 75

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	⌀ mm	H mm	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		

Accessories see page 75

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 stain 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

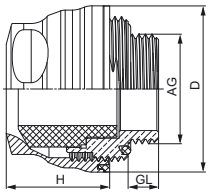
HSK-INOX-HD-Pro — Metr.

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 01 cleaning test passed
// EHEDG certificate EL class I AUX approved

EMC

ideal for high-pressure cleaning



AG	⌀ 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

Accessories see page 75

HSK-INOX-HD

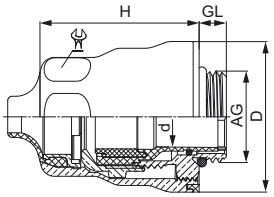
Metr.

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	⌀ 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

Accessories see page 75

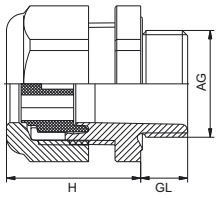
HSK CABLE GLANDS FOR SPECIAL APPLICATIONS

HSK-K-Multi — Metr., PG, NPT

Material	Polyamide V0 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)

ULft 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

Accessories see page 75

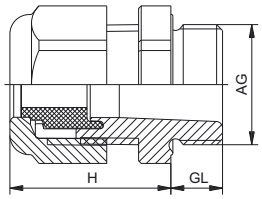
HSK-K-FLAKA

Metr., PG, NPT

Material	Polyamide V0 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)

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
// 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	14x 6	1.587.2018.50	1.587.2018.51			
M 25 x 1,5	11	31	33	14x 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	22x 8	1.587.3200.50	1.587.3200.51			
M 40 x 1,5	13	48	53	28,5x 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	30,5x 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	33,5x 11,5	1.587.5000.50	1.587.5000.51			
M 63 x 1,5	14	49	65 / 68	38x 12	1.587.6300.50	1.587.6301.51			
PG 16	10	28	27	11,5x 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	14x 6	1.587.1602.00	1.587.1602.01			
PG 21	11	31	33	14x 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	22x 8	1.587.2900.00	1.587.2900.01			
PG 36	13	48	53	28,5x 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	30,5x 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	33,5x 11,5	1.587.4200.00	1.587.4200.01			
PG 48	14	49	65	38x 12	1.587.4800.00	1.587.4800.01			
NPT 1/2" (16)	13	28	27	11,5x 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	14x 6	1.587.1218.70	1.587.1218.71			
NPT 3/4"	14	31	33	14x 6	1.587.3400.70	1.587.3400.71			
NPT 1"	19	39	42	22x 8	1.587.1000.70	1.587.1000.71			
NPT 1 1/4"	16	39	42 / 46	22x 8	1.587.5400.70	1.587.5400.71			
NPT 1 1/2"	20	48	53	28,5x 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	30,5x 12	1.587.6402.70	1.587.6402.71	31 x 7,5	1.587.6403.70	1.587.6403.71

Accessories see page 75

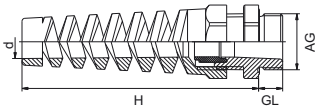
HSK CABLE GLANDS FOR SPECIAL APPLICATIONS

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)

// 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

ULFT in black color



AG	⌀ 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

Accessories see page 75

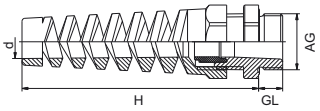
HSK-K-Flex

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

in black color



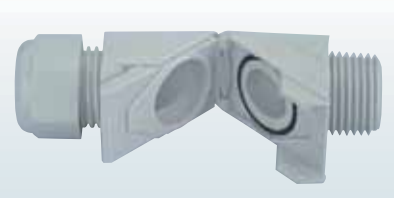
AG	⌀ mm	H mm	d mm	mm	GL mm	Number grey	Number black	GL mm	Number grey elongated	Number black elongated
PG 7*	3–6,5	54	7	15	8	1.293.0700.14	1.293.0701.14	15	1.293.0700.60	1.293.0701.60
PG 7*	2–5	54	7	15	8	1.293.0700.15	1.293.0701.15	15	1.293.0700.61	1.293.0701.61
PG 9*	4–8	63	8,5	19	8	1.293.0900.14	1.293.0901.14	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

Accessories see page 75

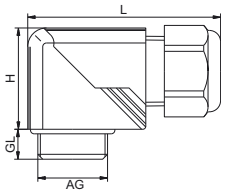
HSK CABLE GLANDS FOR SPECIAL APPLICATIONS

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)

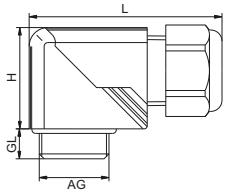


AG	⌀ mm	GL mm	H mm	L mm	R mm	mm	Number grey	Number black
M 16 x 1,5	4–8	8	23	45	5	19	1.313.1600.50	1.313.1601.50
M 16 x 1,5	2–6	8	23	45	5	19	1.313.1600.51	1.313.1601.51
M 20 x 1,5	6–12	9	30,5	57	7	24	1.313.2000.50	1.313.2001.50
M 20 x 1,5	5–9	9	30,5	57	7	24	1.313.2000.51	1.313.2001.51
M 25 x 1,5	13–18	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	⌀ 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

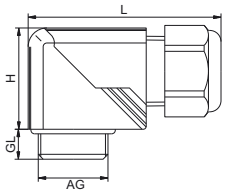
Accessories see page 75

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)

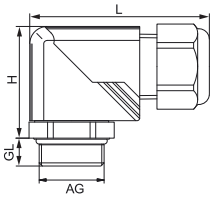


AG	⌀ mm	GL mm	H mm	L mm	R mm	mm	Number grey	Number black
PG 9	4–8	8	23	45	5	19	1.313.0900.14	1.313.0901.14
PG 9	2–6	8	23	45	5	19	1.313.0900.15	1.313.0901.15
PG 11	5–10	8	27	50	6	22	1.313.1100.14	1.313.1101.14
PG 11	3–7	8	27	50	6	22	1.313.1100.15	1.313.1101.15
PG 13,5	6–12	9	30,5	57	7	24	1.313.1300.14	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	⌀ mm	GL mm	H mm	L mm	R mm	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

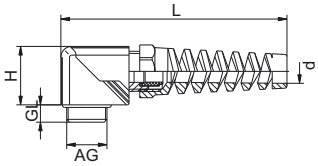
Accessories see page 75

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



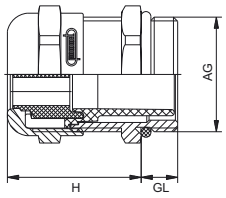
AG	⌀ mm	d mm	GL mm	H mm	L mm	R mm	mm	Number grey	Number black
M 16 x 1,5	4–8	8,5	8	23	85	5	19	1.314.1600.50	1.314.1601.50
M 16 x 1,5	2–6	8,5	8	23	85	5	19	1.314.1600.51	1.314.1601.51
M 20 x 1,5	6–12	13	9	30,5	119	7	24	1.314.2000.50	1.314.2001.50
M 20 x 1,5	5–9	13	9	30,5	119	7	24	1.314.2000.51	1.314.2001.51
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

Accessories see page 75

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

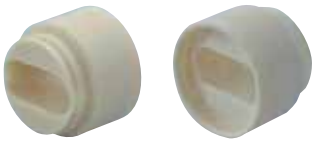


AG	GL mm	H mm	mm	Number of holes x d	Number	Number of holes x d	Number
M 12 x 1,5	6,5	19	14		1.697.1299.50		1.697.1299.50
M 16 x 1,5	6	21	17 / 19	4 x 1,4	1.697.1600.50	2 x 3	1.697.1601.50
M 20 x 1,5	6	23	22	6 x 3	1.697.2001.50	2 x 5	1.697.2003.50
M 25 x 1,5	7	26	30	4 x 6	1.697.2500.50	3 x 7	1.697.2501.50
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

Accessories see page 75

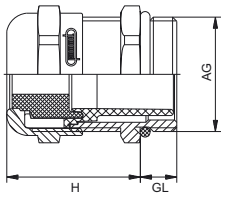
HSK CABLE GLANDS FOR SPECIAL APPLICATIONS

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		

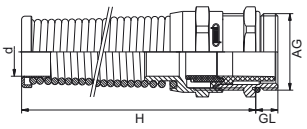
Accessories see page 75

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	⌀ 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	1.623.1200.50	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

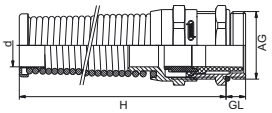
Accessories see page 75

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



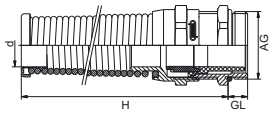
AG	⌀ mm	H mm	d mm	mm	GL mm	Number	GL mm	Number elongated
PG 7	3–6,5	55	6,8	14	5	1.623.0700.01	10	1.623.0700.60
PG 7	2–5	55	6,8	14	5	1.623.0700.15	10	1.623.0700.61
PG 9	4–8	66	8,2	17	6	1.623.0900.01	10	1.623.0900.60
PG 9	2–6	66	8,2	17	6	1.623.0900.15	10	1.623.0900.61
PG 11	5–10	77	10,3	20	6	1.623.1100.01	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

Accessories see page 75

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	⌀ 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

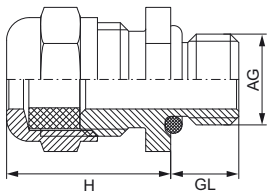
Accessories see page 75

HSK CABLE GLANDS FOR SPECIAL APPLICATIONS

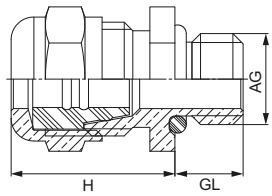
HSK-MINI — Metr., PG

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

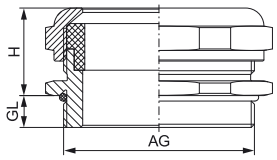


AG	⌀ mm	GL mm	H mm	mm	Number Buna-N / TPE	Number FKM
M 6 x 1	2–3,2	6	10	8	1.106.0601.50	1.106.0600.55
M 8 x 0,75	2–4,5	3,5	14,3	11	1.112.0801.01	
M 8 x 1,25	3–5	6	13	11	1.106.0801.50	1.106.0800.55
M 10 x 1,5	4–6	6	14	12	1.106.1001.50	1.106.1000.55
PG 7	2–4,5	3,5	14,3	11 / 15	1.112.0708.01	
HSK-Mini elongated						
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

Accessories see page 75

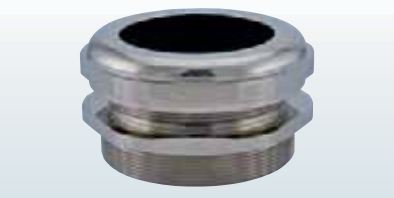
HSK-XL — Metr.

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

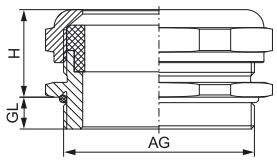


AG	⌀ mm	GL mm	H mm	mm	Number
M 63 x 1,5	48–55	10	42	75	1.106.6375.50
M 75 x 1,5	48–55	15	42	80	1.106.7500.50
M 75 x 1,5	53–60	15	42	85	1.106.7500.51
M 80 x 2	58–65	15	42	90	1.106.8000.50
M 90 x 2	63–70	15	42	100	1.106.9000.50
M 90 x 2	68–75	15	52	100	1.106.9000.51
M 100 x 2	78–85	20	52	110	1.106.1000.50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

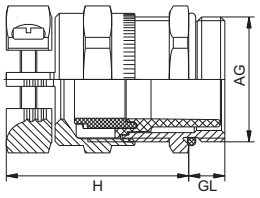
Accessories see page 75

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	⌀ mm	H mm	mm	GL mm	Number HSK-MZ -40 °C – 100 °C	Number HSK-MZ-PVDF -35 °C – 150 °C	GL mm	Number 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

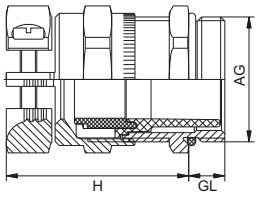
Accessories see page 75

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	⌀ mm	H mm	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			

Accessories see page 75

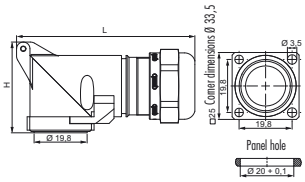
HSK CABLE GLANDS FOR SPECIAL APPLICATIONS

HSK-M-W — Metr., PG

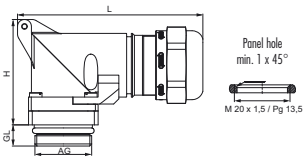
Material	Zinc die casting / Nickel plated brass
Clamping insert	Polyamide
Seal ring	Buna-N
O-Ring	Buna-N
Protection	IP 68
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)

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

With mounting flange



With threaded connection



AG	⌀ mm	GL mm	H mm	L mm	R mm	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

Accessories see page 75

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

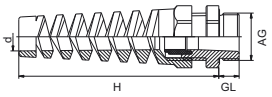
We provide variable clamping ranges and thread lengths.
For any further question please do not hesitate to contact us. We look forward to develop solutions together with you.
You profit from our vast knowledge in development, engineering and production technology.

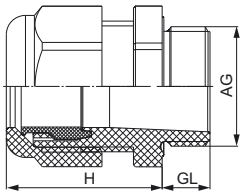
METRICA CABLE GLANDS

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	⌀ 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	

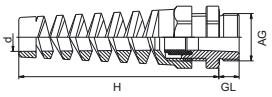
Accessories see page 75

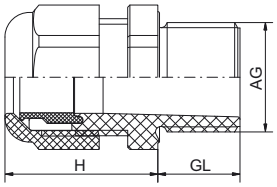
METRICA-P, METRICA-P-Flex

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	⌀ mm	GL mm	H mm	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	

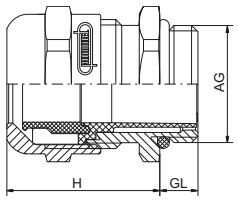
Accessories see page 75

METRICA CABLE GLANDS

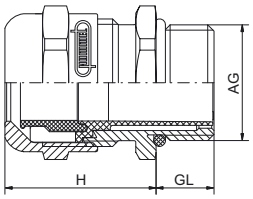
METRICA-M — Metr., Metr.-elongated

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



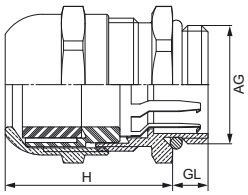
AG	⌀ mm	H mm	mm	GL mm	Number	GL mm	Number elongated
M 12 x 1,5	4–7	20	14	6	1.618.1200.50	10	1.618.1200.30
M 12 x 1,5	2–5	20	14	6	1.618.1200.51	10	1.618.1200.31
M 16 x 1,5	6–10	25	19	6	1.618.1600.50	10	1.618.1600.30
M 16 x 1,5	3–7	25	19	6	1.618.1600.51	10	1.618.1600.31
M 20 x 1,5	8–13	26	24	6,5	1.618.2000.50	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

Accessories see page 75

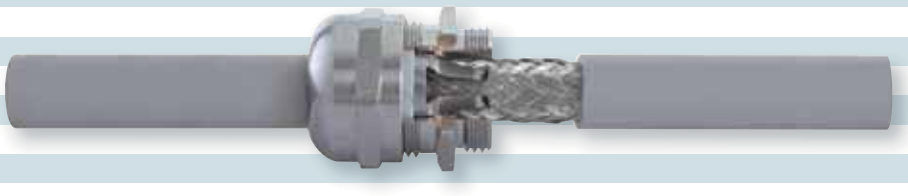
METRICA-M-EMC-E

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	⌀ 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



Accessories see page 75

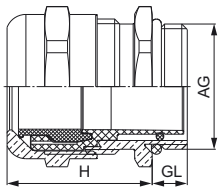
METRICA CABLE GLANDS

METRICA-M-EMC

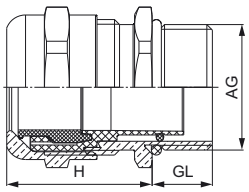
Metr., Metr.-elongated

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)

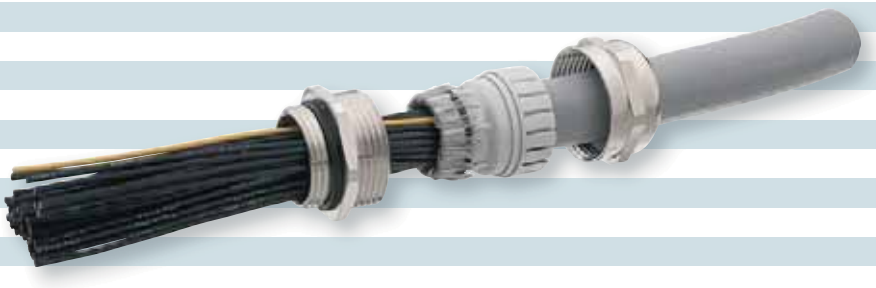
Metr.



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



Accessories see page 75

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

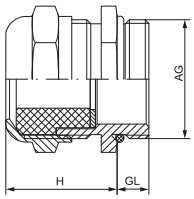
// WADI-A-FKM	without clamping cartridge, made of metal with FKM sealing for higher durability and for high temperature applications
// DIN 46320	pressure screw gland made of polyamide or brass nickel plated
// Z (DIN 46320)	pressure screw gland with additional stain relief
// SE (DIN 46320)	pressure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

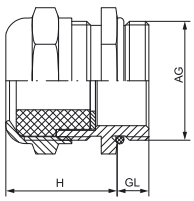
Material	Nickel plated brass
Seal ring	FKM
O-Ring	FKM
Protection	IP 68 (NEMA 6)
Operating Temperature	-25 °C – 200 °C (-13 °F – 392 °F)



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

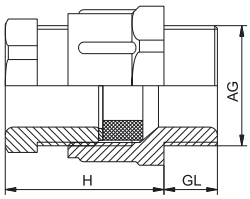
Dimensions and specifications may be changed without prior notice
Accessories see page 75

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



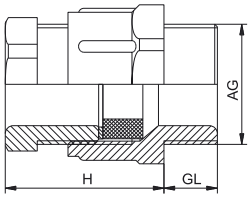
AG	⌀ mm	GL mm	H mm	mm	Number
PG 7	3,5–6	8	20	15 / 13	1.202.0700.11
PG 9	4,5–7	8	21	19 / 16	1.202.0900.11
PG 11	6–9	8	22	22 / 19	1.202.1100.11
PG 13,5	9–12	9	26	24 / 21	1.202.1300.11
PG 16	11–14	10	28	27 / 23	1.202.1600.11
PG 21	14–18	11	32	33 / 30	1.202.2100.11
PG 29	18–25	11	35	42 / 40	1.202.2900.11
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	⌀ 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

Accessories see page 75

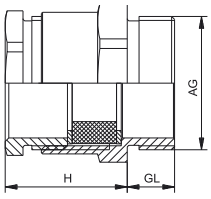
MISCELLANEOUS CABLE GLANDS

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



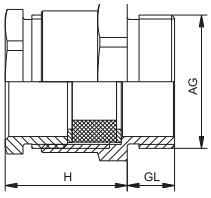
AG	⌀ mm	GL mm	H mm	mm	Number
PG 7	6–8	5	15	14 / 13	1.101.0703.01
PG 9	8–10	6	15	17 / 15	1.101.0903.01
PG 11	10–12	6	17	20 / 18	1.101.1103.01
PG 13,5	12–14	6,5	20	22 / 20	1.101.1303.01
PG 16	14–16	6,5	22	24 / 22	1.101.1603.01
PG 21	17–19	7	24	30 / 28	1.101.2103.01
PG 29	26–28	8	26	40 / 37	1.101.2903.01
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



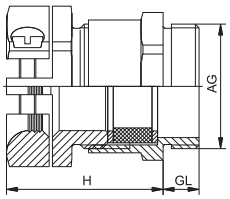
AG	⌀ mm	GL mm	H mm	mm	Number
PG 9	4–10	6	15	17 / 15	1.101.0901.01
PG 11	6,5–12	6	17	20 / 18	1.101.1101.01
PG 13,5	6,5–13,5	6,5	20	22 / 20	1.101.1301.01
PG 16	6,5–16	6,5	22	24 / 22	1.101.1601.01
PG 21	9–20	7	24	30 / 28	1.101.2101.01
PG 29	17–28	8	26	40 / 37	1.101.2901.01
PG 36	23–34	9	30	50 / 47	1.101.3601.01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

Accessories see page 75

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)

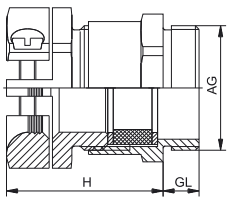


AG	⌀ mm	GL mm	H mm	mm	Number
M 12 x 1,5	6–8	5	22	14 / 16	1.105.1200.51
M 16 x 1,5	8–10	5	25	18 / 19	1.105.1600.51
M 20 x 1,5	10–12	6	26	22 / 22	1.105.2000.51
M 20 x 1,5	12–14	6	27,5	22 / 24	1.105.2013.51
M 20 x 1,5	13–15	6	28,5	24 / 26	1.105.2016.51
M 25 x 1,5	17–19	6	33	30 / 33	1.105.2500.51
M 32 x 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	⌀ mm	GL mm	H mm	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

Accessories see page 75

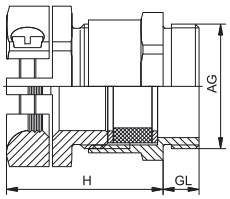
MISCELLANEOUS CABLE GLANDS

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



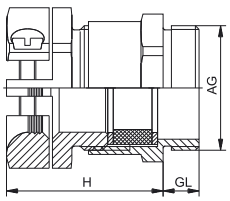
AG	⌀ mm	GL mm	H mm	mm	Number NBR -20 °C – 80 °C
PG 7	6–8	5	22	14 / 16	1.105.0703.01
PG 9	8–10	6	25	17 / 19	1.105.0903.01
PG 11	10–12	6	26	20 / 22	1.105.1103.01
PG 13,5	12–14	6,5	27,5	22 / 24	1.105.1303.01
PG 16	14–16	6,5	28,5	24 / 26	1.105.1603.01
PG 21	17–19	7	33	30 / 33	1.105.2103.01
PG 29	26–28	8	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	⌀ mm	GL mm	H mm	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

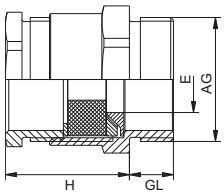
Accessories see page 75

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	⌀ 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

Accessories see page 75

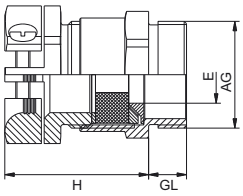
MISCELLANEOUS CABLE GLANDS

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)

RoHS

// Please see page 91 for suitable thread seal ring



AG	⌀ 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

Accessories see page 75

INDUSTRIAL CABLE GLANDS

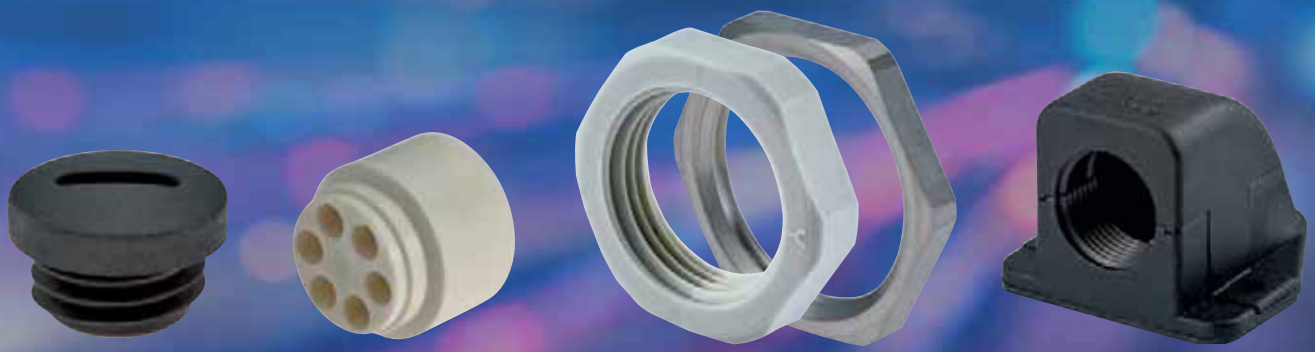
Accessories

You can find in this chapter:

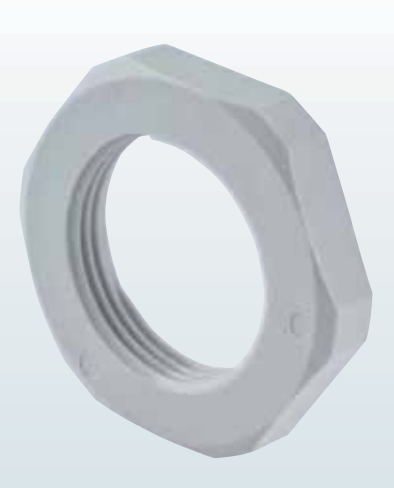
Accessories for all series of our industrial cable glands:

// 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.

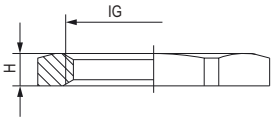


Locknut GM-FS — Metr., PG, NPT



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

// Other colors on request

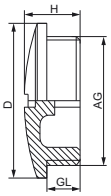


IG	H mm	mm	Number PA grey	Number PA black
M 12 x 1,5	5	17	1.262.1200.50	1.262.1201.50
M 16 x 1,5	5	22	1.262.1600.50	1.262.1601.50
M 20 x 1,5	6	27	1.262.2000.50	1.262.2001.50
M 25 x 1,5	6,5	32	1.262.2500.50	1.262.2501.50
M 32 x 1,5	7	41	1.262.3200.50	1.262.3201.50
M 40 x 1,5	7	50	1.262.4000.50	1.262.4001.50
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.

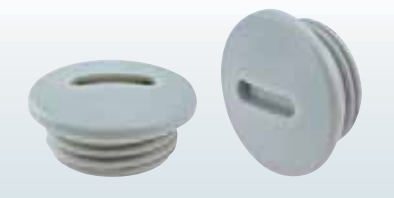
// Other colors on request

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



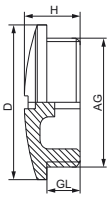
AG	GL mm	H mm	D mm	Number PA grey	Number PA black
M 12 x 1,5	6	10	15	1.251.1200.50	1.251.1201.50
M 16 x 1,5	7	11,5	20	1.251.1600.50	1.251.1601.50
M 20 x 1,5	6	9,5	25	1.251.2000.50	1.251.2001.50
M 25 x 1,5	11	15,5	30	1.251.2500.50	1.251.2501.50
M 32 x 1,5	11	16	38	1.251.3200.50	1.251.3201.50
M 40 x 1,5	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)



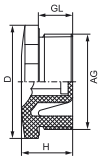
AG	GL mm	H mm	D mm	Number PA grey	Number PA black
PG 7	6	8	15	1.251.0700.11	1.251.0701.11
PG 9	6	9	19	1.251.0900.11	1.251.0901.11
PG 11	6	9	22	1.251.1100.11	1.251.1101.11
PG 13,5	6	9,5	25	1.251.1300.11	1.251.1301.11
PG 16	6	9,5	27	1.251.1600.11	1.251.1601.11
PG 21	8	11	33	1.251.2100.11	1.251.2101.11
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.

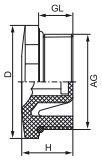
// Please find suitable O-Ring on page 90

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)

V-NE



V-NE-SD



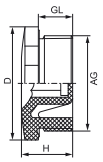
AG	GL mm	H mm	D mm	mm	mm	Number V-NE without O-Ring	Number V-NE-SD
M 12 x 1,5	8,5	13	16,5	15	6	1.255.1201.50	1.256.1201.50
M 16 x 1,5	8,5	13	20,5	19	8	1.255.1601.50	1.256.1601.50
M 20 x 1,5	9	14,5	25,5	24	8	1.255.2001.50	1.256.2001.50
M 25 x 1,5	10,5	16	30,5	28	8	1.255.2501.50	1.256.2501.50
M 32 x 1,5	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

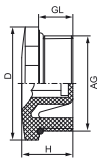
// Please find suitable O-Ring on page 90

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)

V-NE



V-NE-SD



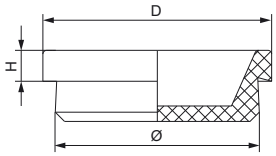
AG	GL mm	H mm	D mm	mm	mm	Number V-NE without O-Ring	Number V-NE-SD
PG 7	8,5	13	16,5	15	6	1.255.0701.11	1.256.0701.11
PG 9	8,5	13	20,5	19	8	1.255.0901.11	1.256.0901.11
PG 11	9	14,5	25,5	24	8	1.255.1101.11	1.256.1101.11
PG 13,5	9	14,5	25,5	24	8	1.255.1301.11	1.256.1301.11
PG 16	10,5	16	30,5	28	8	1.255.1601.11	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



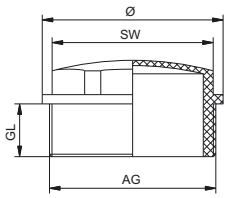
Ø mm	D mm	H mm	Number
12	17	5	1.250.1201.50
16	20	5	1.250.1601.50
20	25	5	1.250.2001.50
25	30	5	1.250.2501.50
32	37	5	1.250.3201.50
40	45	5	1.250.4001.50
50	56	5	1.250.5001.50
63	70	5	1.250.6301.50

WN — Metr.

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

M

RoHS

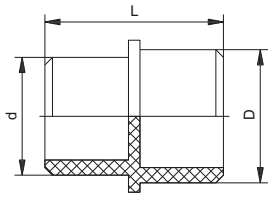


AG	GL mm	Ø mm	mm	Number
M 16 x 1,5	9	19,8	15	1.282.1600.50
M 20 x 1,5	12	24	19	1.282.2000.50
M 25 x 1,5	12	29,5	24	1.282.2500.50
M 32 x 1,5	14	37,5	30	1.282.3200.50
M 40 x 1,5	14	45,8	37	1.282.4000.50
M 50 x 1,5	18	55,8	46	1.282.5000.50
M 63 x 1,5	20	68,8	56	1.282.6300.50

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)

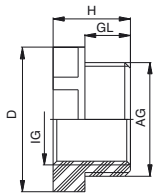


Fits the following sizes			D mm	d mm	L mm	Number
M 12 x 1,5	PG 7		6	4,5	15	1.280.0007.00
M 16 x 1,5	PG 9	NPT 3/8"	7,5	5,5	17	1.280.0009.00
M 16 x 1,5 / 11	PG 11		9,5	6,5	19	1.280.0011.00
M 20 x 1,5	PG 13,5	NPT 1/2"	11,5	8,5	19	1.280.0013.00
M 20 x 1,5 / 16	PG 16	NPT 1/2" (16)	13,5	11,5	19,5	1.280.0016.00
M 25 x 1,5	PG 21	NPT 3/4"	17,5	15,5	23,5	1.280.0021.00
M 32 x 1,5	PG 29	NPT 1" NPT 1 1/4"	24	19	26	1.280.0029.00
M 40 x 1,5	PG 36	NPT 1 1/2"	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

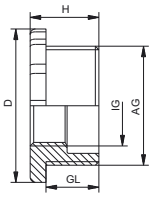
Adapter R-FS — Metr., PG

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)

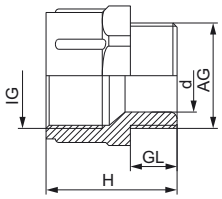
Type A



Type B



Type C

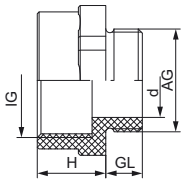


AG	IG	Type	GL mm	H mm	D mm	d mm	mm	Number SB	Number PA
M 16 x 1,5	M 12 x 1,5	A	9	16	24		22		1.272.1612.50
M 20 x 1,5	M 16 x 1,5	A	9	16	27		24		1.272.2016.50
M 25 x 1,5	M 20 x 1,5	A	10	17	32		29		1.272.2520.50
M 32 x 1,5	M 25 x 1,5	A	12	19	40		36		1.272.3225.50
M 40 x 1,5	M 32 x 1,5	A	12	19	51		46		1.272.4032.50
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

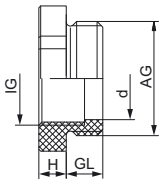
Adapter R-M-PA — Metr., PG

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

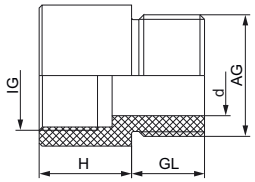
Type A



Type B



Type C

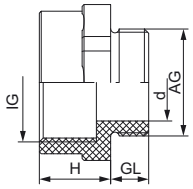


AG	IG	Type	GL mm	H mm	d mm	SW mm	Number
M 16 x 1,5	M 12 x 1,5	B	8	6	10	20	1.273.1612.50
M 20 x 1,5	M 16 x 1,5	B	8	6	13,5	25	1.273.2016.50
M 25 x 1,5	M 20 x 1,5	B	8	6	18	29	1.273.2520.50
M 32 x 1,5	M 25 x 1,5	B	10	6	23	36	1.273.3225.50
M 40 x 1,5	M 32 x 1,5	C	15	5	30		1.273.4032.50
M 50 x 1,5	M 40 x 1,5	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

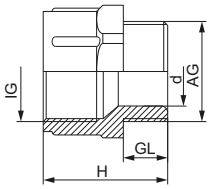
Adapter E-M-PA, K-FS — Metr., PG

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)

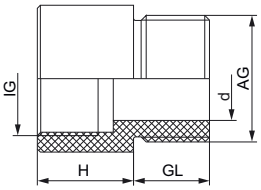
Type A



Type B



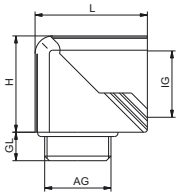
Type C



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

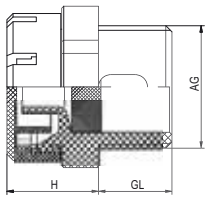
Material	Polyamide
O-Ring	Buna-N
Protection	IP 68 (NEMA 6)
Operating Temperature	-20 °C – 80 °C (-4 °F – 176 °F)
Colors	grey (RAL 7035), black (RAL 9005)



AG	IG	GL mm	H mm	L mm	R mm	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.

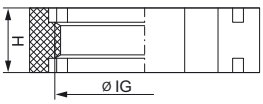
Material	Polyamide
Protection	IP 54
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)
Colors	grey (RAL 7035), black (RAL 9005)



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)

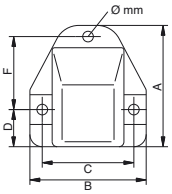


AG	H mm	mm	Number grey	Number black
M 25 x1,5	9	30	1.263.2500.50	1.263.2501.50

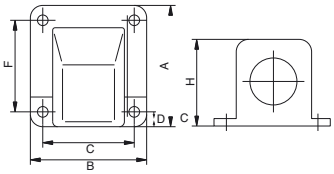
KF-G — Metr., PG

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

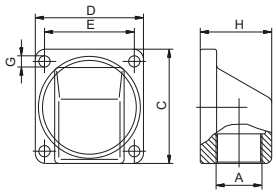
FW-T

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

HSK-ME — Metr., PG, NPT

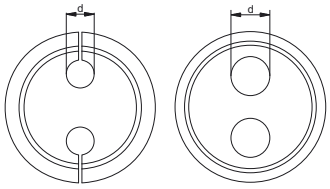
Material	Elastomer
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)

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

Slit version

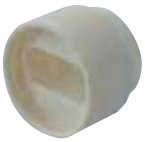


Fits the following sizes			Number of holes x d	Number	Number of holes x d	Number	Number without holes
M 12 x 1,5	PG 7 / KR PG 9		1,5*	1.089.0712.19			1.089.0799.19
M 16 x 1,5	PG 9 / KE PG 7 / KR PG 11	NPT 3/8"	4 x 1,4	1.089.0900.19	2 x 3	1.089.0901.19	1.089.0999.19
			5 x 1,6	1.089.0902.19	10 x 1,4	1.089.0904.19	
			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



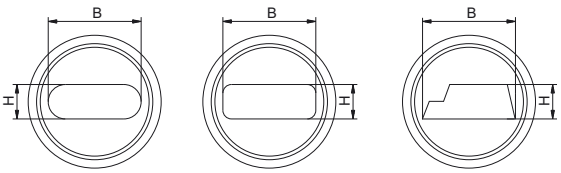
Material	Elastomer
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)

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

ASI-BUS



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

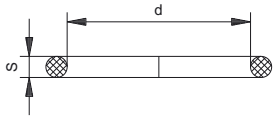
RoHS

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)

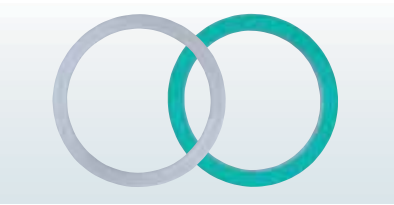
O-Ring VMQ	
Material	VMQ (Silicone)
Operating Temperature	-60 °C – 250 °C (-76 °F – 482 °F)

// 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

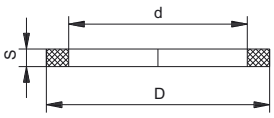
Thread Seal Ring PE

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

Thread Seal Ring HD

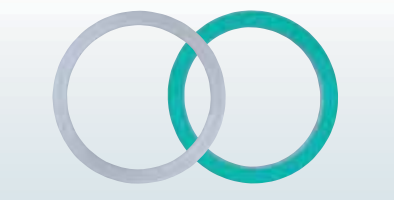
Material	Fiber-reinforced plastic
Operating Temperature	-40 °C – 300 °C (-40 °F – 572 °F)

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



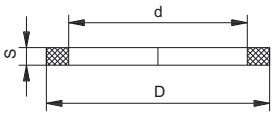
Thread Seal Ring PE

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

Thread Seal Ring HD

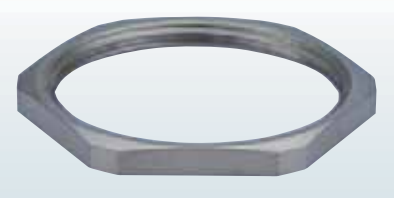
Material	Fiber-reinforced plastic
Operating Temperature	-40 °C – 300 °C (-40 °F – 572 °F)

RoHS

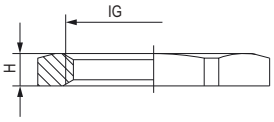


Fits the following sizes	d mm	D mm	S Polyethylene mm	S Fiber-reinforced plastic mm	Number Polyethylene	Number Fiber-reinforced plastic
PG 7	12,5	16,5	2	1,5	1.325.0700.19	1.325.0700.20
PG 9	15,2	19	2	1,5	1.325.0900.19	1.325.0900.20
PG 11	18,6	22,5	2	1,5	1.325.1100.19	1.325.1100.20
PG 13,5	20,4	25	2	1,5	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

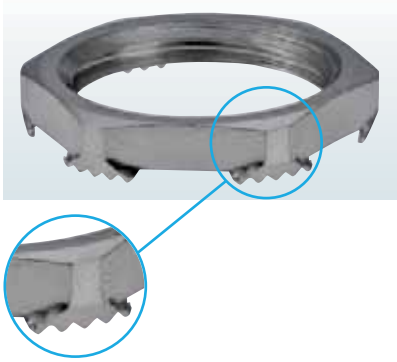


IG	H mm	mm	Number
M 12 x 1,5	2,8	15	1.161.1200.50
M 16 x 1,5	2,8	19	1.161.1600.50
M 20 x 1,5	3,0	23	1.161.2000.50
M 25 x 1,5	3,5	29	1.161.2500.50
M 32 x 1,5	4,0	36	1.161.3200.50
M 40 x 1,5	4,5	45	1.161.4000.50
M 50 x 1,5	5,5	55	1.161.5000.50
M 63 x 1,5	6,0	70	1.161.6300.50
M 75 x 1,5	8,0	85	1.161.7500.50
M 80 x 2	8,0	90	1.161.8000.50
M 90 x 2	8,0	100	1.161.9000.50

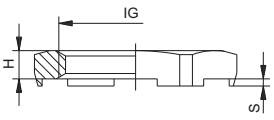
IG	H mm	mm	Number
M 100 x 2	11	115	1.161.1000.50
M 110 x 2	11	125	1.161.1100.50
PG 7	2,8	15	1.161.0700.01
PG 9	2,8	18	1.161.0900.01
PG 11	3,0	21	1.161.1100.01
PG 13,5	3,0	23	1.161.1300.01
PG16	3,0	26	1.161.1600.01
PG 21	3,5	32	1.161.2100.01
PG 29	4,0	41	1.161.2900.01
PG 36	5,0	51	1.161.3600.01

IG	H mm	mm	Number
PG 42	5,0	60	1.161.4200.01
PG 48	5,5	64	1.161.4800.01
G 2 1/2"	7	80	1.106.5200.99
G 3"	8	95	1.106.3000.99
G 4"	11	125	1.106.4000.99

Locknut GM-EMV — Metr., PG



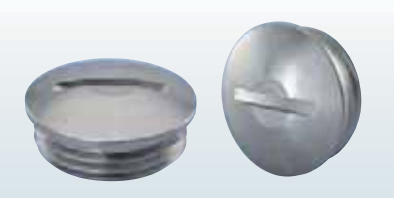
Material	Messing vernickelt



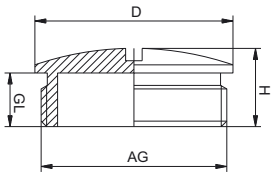
IG	H mm	mm	S mm	Number
M 12 x 1,5	2,8	15	0,7	1.167.1200.50
M 16 x 1,5	2,8	19	0,7	1.167.1600.50
M 20 x 1,5	3,0	24	0,7	1.167.2000.50
M 25 x 1,5	3,5	30	0,7	1.167.2500.50
M 32 x 1,5	4,5	36	0,7	1.167.3200.50
M 40 x 1,5	5,0	46	0,7	1.167.4000.50
M 50 x 1,5	5,0	60	0,7	1.167.5000.50
M 63 x 1,5	6,0	70	0,7	1.167.6300.50

IG	H mm	mm	S mm	Number
PG 7	2,8	15	0,7	1.167.0700.01
PG 9	2,8	18	0,7	1.167.0900.01
PG 11	3,0	21	0,7	1.167.1100.01
PG 13,5	3,0	23	0,7	1.167.1300.01
PG 16	3,0	26	0,7	1.167.1600.01
PG 21	3,5	32	0,7	1.167.2100.01
PG 29	4,0	41	0,7	1.167.2900.01
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



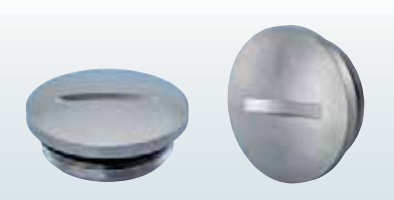
Material	Nickel plated brass
Protection	IP 54



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

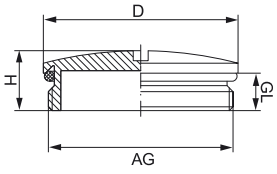
AG	GL mm	H mm	D mm	Number
PG 7	5	8	14	1.052.0700.01
PG 9	6	9	17	1.052.0900.01
PG 11	6	9	20	1.052.1100.01
PG 13,5	6,5	9,5	22	1.052.1300.01
PG 16	6,5	9,5	24	1.052.1600.01
PG 21	7	11	30	1.052.2100.01
PG 29	8	12	39	1.052.2900.01
PG 36	9	15	50	1.052.3600.01
PG 42	10	16	57	1.052.4200.01
PG 48	10	16	64	1.052.4800.01

Plug V-N-Ms-SD — Metr., PG



// Other O-Ring materials upon request

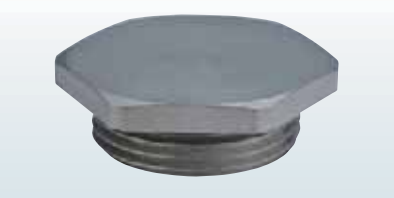
Material	Nickel plated brass
O-Ring	Buna-N
Protection	IP 68 (NEMA 6)
Operating Temperature	-40 °C – 80 °C -40 °F – 176 °F)



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

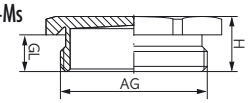
Plug V-NE-Ms — Metr.



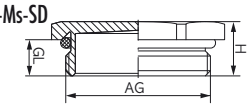
// Other O-Ring materials upon request

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)

V-NE-Ms



V-NE-Ms-SD



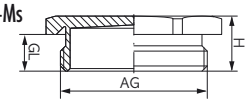
AG	GL mm	H mm	mm	Number V-NE-Ms without O-Ring	Number V-NE-Ms-SD -20 °C – 95 °C	Number V-NE-Ms-SD-FKM -20 °C – 180 °C
M 12 x 1,5	6,5	9,5	14	1.155.1200.50	1.156.1200.50	1.157.1200.50
M 16 x 1,5	6	9	19	1.155.1600.50	1.156.1600.50	1.157.1600.50
M 20 x 1,5	6	9,5	22	1.155.2000.50	1.156.2000.50	1.157.2000.50
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

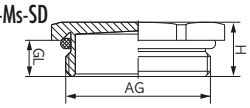
// Other O-Ring materials upon request

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)

V-NE-Ms



V-NE-Ms-SD

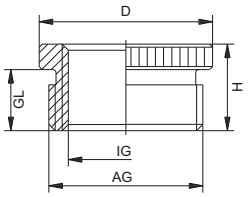


AG	GL mm	H mm	mm	Number V-NE-Ms without O-Ring	Number V-NE-Ms-SD -20 °C – 95 °C	Number V-NE-Ms-SD-FKM -20 °C – 180 °C
PG 7	5	8	14	1.155.0700.01	1.156.0700.01	1.157.0700.01
PG 9	6	9	17	1.155.0900.01	1.156.0900.01	1.157.0900.01
PG 11	6	9,5	20	1.155.1100.01	1.156.1100.01	1.157.1100.01
PG 13,5	6,5	10	22	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

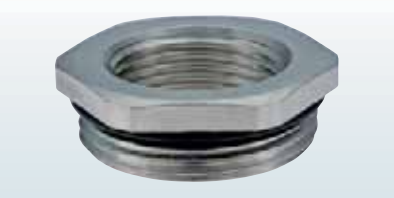
Metr., PG

Material	Nickel plated brass



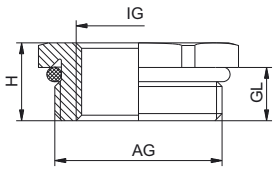
AG	IG	GL mm	H mm	D mm	Number
M 16 x 1,5	M 12 x 1,5	6,0	8,5	18	1.076.1612.50
M 20 x 1,5	M 12 x 1,5	6,5	9,0	24	1.076.2012.50
M 20 x 1,5	M 16 x 1,5	6,5	9,0	24	1.076.2016.50
M 25 x 1,5	M 16 x 1,5	7,0	10,0	30	1.076.2516.50
M 25 x 1,5	M 20 x 1,5	7,0	10,0	30	1.076.2520.50
M 32 x 1,5	M 20 x 1,5	8,0	11,5	39	1.076.3220.50
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

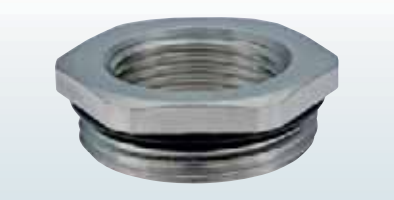
Material	Nickel plated brass
O-Ring	Buna-N
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)



AG	IG mm	GL mm	H mm	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

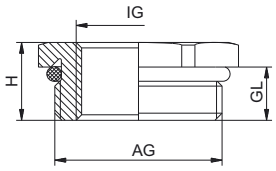
AG	IG mm	GL mm	H mm	mm	Number
M 50 x 1,5	M 25 x 1,5	9	13	55	1.077.5025.50
M 50 x 1,5	M 32 x 1,5	9	13	55	1.077.5032.50
M 50 x 1,5	M 40 x 1,5	9	13	55	1.077.5040.50
M 63 x 1,5	M 32 x 1,5	10	14	65	1.077.6332.50
M 63 x 1,5	M 40 x 1,5	10	14	65	1.077.6340.50
M 63 x 1,5	M 50 x 1,5	10	14	65	1.077.6350.50

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)

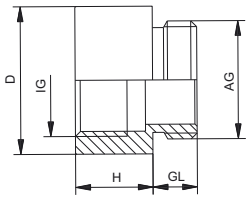


AG	IG mm	GL mm	H mm	mm	Number
PG 9	PG 7	6	8,8	17	1.077.0907.01
PG 11	PG 7	6	9	20	1.077.1107.01
PG 11	PG 9	6	9	20	1.077.1109.01
PG 13,5	PG 9	6,5	9,5	22	1.077.1309.01
PG 13,5	PG 11	6,5	9,5	22	1.077.1311.01
PG 16	PG 9	6,5	9,5	24	1.077.1609.01
PG 16	PG 11	6,5	9,5	24	1.077.1611.01
PG 16	PG 13,5	6,5	9,5	24	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	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

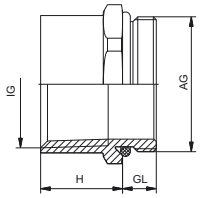


AG	IG mm	GL mm	H mm	D mm	Number
M 16 x 1,5	PG 9	6	10,5	20	1.039.1609.01
M 20 x 1,5	PG 11	6,5	12,5	22	1.039.2011.01
M 20 x 1,5	PG 13,5	6,5	12,5	22	1.039.2013.01
M 20 x 1,5	PG 16	6,5	12,5	24	1.039.2016.01
M 25 x 1,5	PG 16	6,5	12,5	28	1.039.2516.01
M 25 x 1,5	PG 21	6,5	14,5	30	1.039.2521.01
M 32 x 1,5	PG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

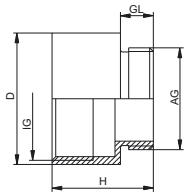


AG	IG mm	GL mm	H mm	⌀ mm	Number
M 16 x 1,5	NPT 1/2"	6	17	24	1.171.1612.50
M 20 x 1,5	NPT 1/2"	6	17	24	1.171.2012.50
M 25 x 1,5	NPT 1/2"	7	8	30	1.171.2512.50
M 25 x 1,5	NPT 3/4"	7	19	30	1.171.2534.50
M 32 x 1,5	NPT 1"	8	25	40	1.171.3210.50
M 32 x 1,5	NPT 1 1/4"	8	25	46	1.171.3254.50

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.

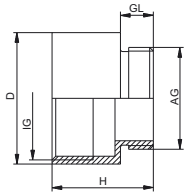
Material	Nickel plated brass



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

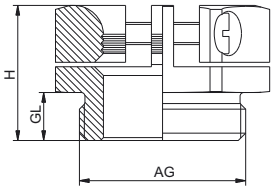


AG	IG	GL mm	H mm	D mm	Number
PG 7	PG 9	5	15	17	1.033.0709.01
PG 9	PG 11	6	16,5	20	1.033.0911.01
PG 9	PG 13,5	6	17,5	22	1.033.0913.01
PG 11	PG 13,5	6	17,5	22	1.033.1113.01
PG 11	PG 16	6	18,5	24	1.033.1116.01
PG 11	PG 21	6	20,5	30	1.033.1121.01
PG 13,5	PG 16	6,5	19	24	1.033.1316.01
PG 13,5	PG 21	6,5	21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

AG	IG	GL mm	H mm	D mm	Number
PG 29	PG 36	8	27,5	50	1.033.2936.01
PG 36	PG 42	9	31	57	1.033.3642.01
PG 42	PG 48	10	33	64	1.033.4248.01

KLE — Metr.

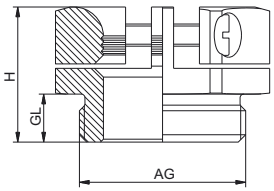
Material	Nickel plated brass



AG	⌀ mm	GL	H mm	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

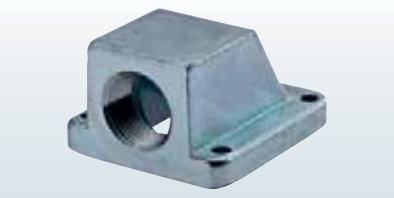
Material	Nickel plated brass



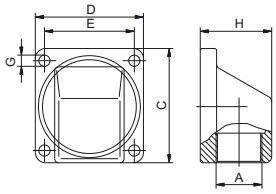
AG	⌀ mm	GL	H mm	mm	Number
PG 7	5,5–8	5,5	14,8	16	1.143.0700.01
PG 9	6,5–10	6	16,6	19	1.143.0900.01
PG 11	7,5–12	6	17,3	22	1.143.1100.01
PG 13,5	8,5–14	6,5	17,8	24	1.143.1300.01
PG 16	9,5–16	6,5	18,3	26	1.143.1600.01
PG 21	12–21	7,5	20,8	33	1.143.2100.01
PG 29	19–30	8	21,8	42	1.143.2900.01
PG 36	25–37	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

ACCESSORIES

FW-ZN — Metr.

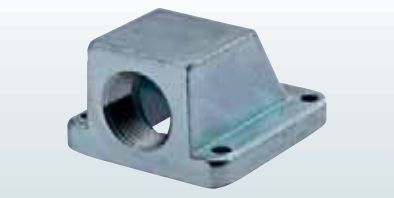


Material	Zinc die casting
O-Ring	Buna-N
Protection	IP 65
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F)

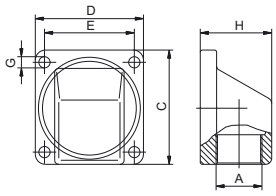


A	C mm	D mm	E mm	G mm	H mm	Number
M 20 x 1,5	56	53	44	5,5	35	1.306.2000.50
M 25 x 1,5	65	63	54	5,5	42	1.306.2500.50
M 32 x 1,5	75	71	60	5,5	52	1.306.3200.50
M 50 x 1,5	93	89	72	6,5	69	1.306.5000.50
M 63 x 1,5	114	96	84	6,5	74	1.306.6300.50

FW-ZN — PG

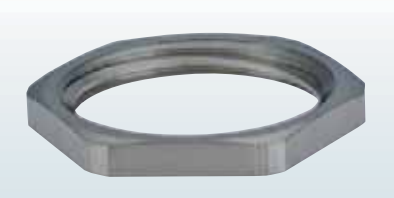


Material	Zinc die casting
O-Ring	Buna-N
Protection	IP 65
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F)



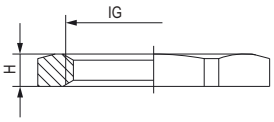
A	C mm	D mm	E mm	G mm	H mm	Number
PG 9	50	45	37	4,3	30	1.306.0900.05
PG 11	50	45	37	4,3	30	1.306.1100.05
PG 13,5	56	53	44	5,5	35	1.306.1300.05
PG 16	56	53	44	5,5	35	1.306.1600.05
PG 21	65	63	54	5,5	42	1.306.2100.05
PG 29	74	70	60	5,5	52	1.306.2900.05
PG 36	94	89	72	6,5	69	1.306.3600.05
PG 42	114	96	84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

Locknut GM-INOX — Metr.



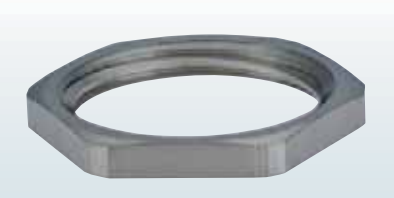
Material	INOX 1.4305

// Other sizes upon request
// Other steal upon request



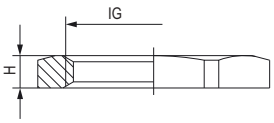
IG	H mm	mm	Number
M 12 x 1,5	2,8	15	1.161.1200.58
M 16 x 1,5	2,8	19	1.161.1600.58
M 20 x 1,5	3	24	1.161.2000.58
M 25 x 1,5	3,5	30	1.161.2500.58
M 32 x 1,5	3,5	36	1.161.3200.58
M 40 x 1,5	5	46	1.161.4000.58
M 50 x 1,5	5	57	1.161.5000.58
M 63 x 1,5	6	70	1.161.6300.58

Locknut GM-INOX — PG



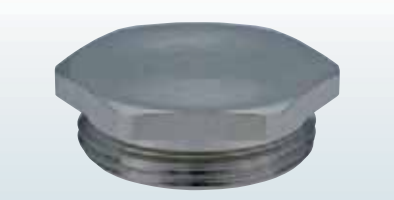
Material	INOX 1.4305

// Other sizes upon request
// Other steal upon request

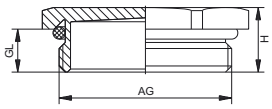


IG	H mm	mm	Number
PG 7	2,8	17	1.161.0700.08
PG 9	2,8	22	1.161.0900.08
PG 11	3	22	1.161.1100.08
PG 13,5	3	24	1.161.1300.08
PG 16	3	27	1.161.1600.08
PG 21	3,5	32	1.161.2100.08
PG 29	4	41	1.161.2900.08
PG 36	5	50	1.161.3600.08

Plug V-INOX — Metr.

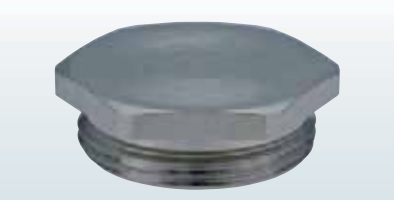


Material	INOX 1.4305
O-Ring	Buna-N / FKM / VMQ
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F) (Buna-N), -20 °C – 180 °C (-4 °F – 356 °F) (FKM), - 60 °C – 180 °C (-76 °F – 356 °F) (VMQ)

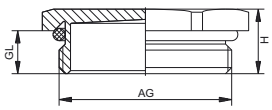


AG	GL mm	H mm	mm	Number V-INOX-NBR -20 °C – 95 °C	Number V-INOX-FKM -20 °C – 180 °C	Number V-INOX-VMQ -60 °C – 180 °C
M 12 x 1,5	6,5	9,5	14	1.152.1200.50	1.153.1200.50	1.154.1200.50
M 16 x 1,5	6	9	19	1.152.1600.50	1.153.1600.50	1.154.1600.50
M 20 x 1,5	6	9,5	22	1.152.2000.50	1.153.2000.50	1.154.2000.50
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



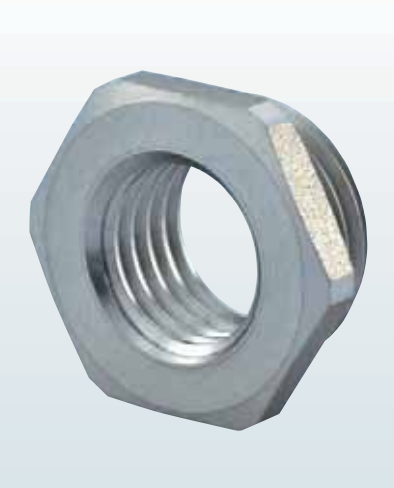
Material	INOX 1.4305
O-Ring	Buna-N / FKM / VMQ
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F) (Buna-N), -20 °C – 180 °C (-4 °F – 356 °F) (FKM), - 60 °C – 180 °C (-76 °F – 356 °F) (VMQ)



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

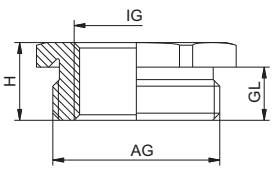
Metr.



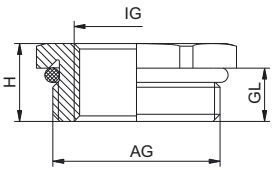
Material	INOX 1.4305
O-Ring	Buna-N
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F)

// Other O-Ring materials upon request

RS-INOX



RSD-INOX



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

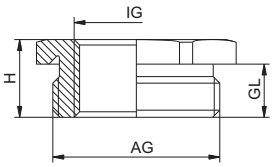
Adapter RS-INOX / RSD-INOX — PG

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

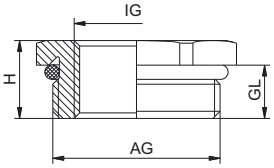
// Other O-Ring materials upon request

RoHS

RS-INOX



RSD-INOX



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“

Ex d
Ex e

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 or 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

ATEX BVS 10 ATEX E 062 X

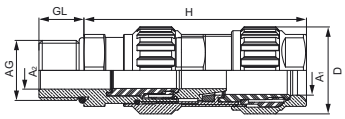
II 2G Ex de IIC Gb
II 1D Ex ta IIIC Da

IECEx BVS 10.0078X

RU C-DE.ГБ05.B.00077

TÜV 12.0321X

12.2557737X



AG	Size	A1 mm	A2 mm	GL mm	H max. mm	mm	D mm	Armouring Ø mm Clamping ring 1	Clamping ring 2	Clamping ring optional	Number
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

Dimensions and specifications may be changed without prior notice

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

ABS

ATEX BVS 10 ATEX E 062 X

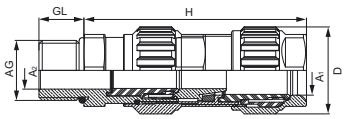
II 2G Ex de IIC Gb
II 1D Ex ta IIIC Da

IECEx BVS 10.0078X

RU C-DE.ГБ05.B.00077

TÜV 12.0321X

12.2557737X



AG	Size	A1 mm	A2 mm	GL mm	H max. mm	mm	D mm	Armouring Ø mm Clamping ring 1	Clamping ring 2	Clamping ring optional	Number
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

CABLE GLANDS FOR „HAZARDOUS AREAS“

EXIOS+ MZ — 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

ABS

RoHS

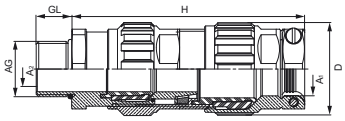
ATEX BVS 10 ATEX E 062 X

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

IECEx BVS 10.0078X

RU C-DE.ГБ05.B.00077

12.2557737X



AG	Size	A1 mm	A2 mm	GL mm	H max. mm	mm	D mm	Armouring Ø mm Clamping ring 1	Clamping ring 2	Clamping ring optional	Number
M 16 x1,5	20–1	6–11	3–8,1	16	79	22	27	0–0,7	0,7–1,25		1.6Z5.1600.50
M 20 x1,5	20–1	6–11	3–8,1	16	79	22	27	0–0,7	0,7–1,25		1.6Z5.2000.50
M 20 x1,5	20–2	9–13	6–12	16	83,8	24	29	0–0,7	0,7–1,25		1.6Z5.2000.51
M 20 x1,5	20–3	12,5–17,5	9–14	16	91,5	30	35	0–0,7	0,7–1,4		1.6Z5.2000.52
M 25 x1,5	20–3	12,5–17,5	9–14	16	91,5	30	35	0–0,7	0,7–1,4		1.6Z5.2500.51
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	1.6Z5.2500.50
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	1.6Z5.3200.50
M 40 x1,5	40	28–41	22–33	16	120	55	64	0–0,7	1,3–2,0	0,7–1,4	1.6Z5.4000.50
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	1.6Z5.5000.50
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	1.6Z5.6300.50
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	1.6Z5.7500.50
NPT 3/8"	20–1	6–11	3–8,1	16	79	22	27	0–0,7	0,7–1,25		1.6Z5.3800.70
NPT 1/2"	20–2	9–13	6–12	20	83,8	24	29	0–0,7	0,7–1,25		1.6Z5.1200.70
NPT 1/2"	20–3	12,5–17,5	9–14	20	91,5	30	35	0–0,7	0,7–1,4		1.6Z5.1200.71
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	1.6Z5.3400.70
NPT 1"	32	22–32,5	16,9–26	25	107	46	52	0–0,7	1,3–2,0	0,7–1,4	1.6Z5.1000.70
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	1.6Z5.5400.70
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	1.6Z5.6400.70
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	1.6Z5.2000.70
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	1.6Z5.5200.70
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	1.6Z5.3000.70

Dimensions and specifications may be changed without prior notice

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

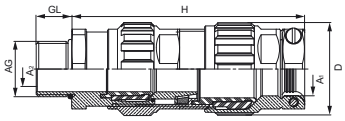
ATEX BVS 10 ATEX E 062 X

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

IECEx BVS 10.0078X

RU C-DE.ГБ05.B.00077

12.2557737X



AG	Size	A1 mm	A2 mm	GL mm	H max. mm	mm	D mm	Armouring Ø mm Clamping ring 1	Clamping ring 2	Clamping ring optional	Number
M 16 x1,5	20–1	6–11	3–8,1	16	79	22	27	0–0,7	0,7–1,25		1.6Z5.1603.50
M 20 x1,5	20–1	6–11	3–8,1	16	79	22	27	0–0,7	0,7–1,25		1.6Z5.2003.50
M 20 x1,5	20–2	9–13	6–12	16	83,8	24	29	0–0,7	0,7–1,25		1.6Z5.2003.51
M 20 x1,5	20–3	12,5–17,5	9–14	16	91,5	30	35	0–0,7	0,7–1,4		1.6Z5.2003.52
M 25 x1,5	20–3	12,5–17,5	9–14	16	91,5	30	35	0–0,7	0,7–1,4		1.6Z5.2503.51
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	1.6Z5.2503.50
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	1.6Z5.3203.50
M 40 x1,5	40	28–41	22–33	16	120	55	64	0–0,7	1,3–2,0	0,7–1,4	1.6Z5.4003.50
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	1.6Z5.5003.50
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	1.6Z5.6303.50
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	1.6Z5.7503.50
NPT 3/8"	20–1	6–11	3–8,1	16	79	22	27	0–0,7	0,7–1,25		1.6Z5.3803.70
NPT 1/2"	20–2	9–13	6–12	20	83,8	24	29	0–0,7	0,7–1,25		1.6Z5.1203.70
NPT 1/2"	20–3	12,5–17,5	9–14	20	91,5	30	35	0–0,7	0,7–1,4		1.6Z5.1203.71
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	1.6Z5.3403.70
NPT 1"	32	22–32,5	16,9–26	25	107	46	52	0–0,7	1,3–2,0	0,7–1,4	1.6Z5.1003.70
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	1.6Z5.5403.70
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	1.6Z5.6403.70
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	1.6Z5.2003.70
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	1.6Z5.5203.70
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	1.6Z5.3003.70

CABLE GLANDS FOR „HAZARDOUS AREAS“

EXIOS+ BARRIER — **Metr., NPT**

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

ATEX Sira 11 ATEX 1110 X

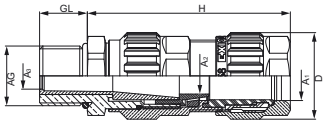
I M2 Ex de I Mb IIC Gb
I M2 Ex ta I IIIC Da

IECEx SIR 11.0044X

RU C-DE.ГБ05.B.00077

TÜV 12.0175X

12.2557737X



AG	Size	A1 mm	A2 mm	A3 mm	GL mm	H max. mm	mm	D mm	Max. No. cores	Armouring Ø mm Clamping ring 1	Clamping ring 2	Number
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

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

ATEX Sira 11 ATEX 1110 X

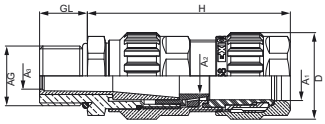
I M2 Ex de I Mb IIC Gb
I M2 Ex ta I IIIC Da

IECEx SIR 11.0044X

RU C-DE.ГБ05.B.00077

TÜV 12.0175X

12.2557737X



AG	Size	A1 mm	A2 mm	A3 mm	GL mm	H max. mm	mm	D mm	Max. No. cores	Armouring Ø mm Clamping ring 1	Clamping ring 2	Number
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

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

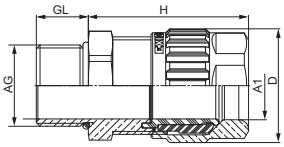
ATEX DEKRA 12 ATEX 0139 X

II Ex db e IIC Gb
II 1D Ex ta IIIC Da

IECEx DEK 12.0039X

TÜV 13.0800X

12.2557737X



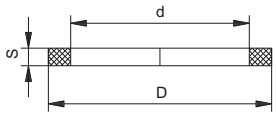
AG	Size	A1 mm	GL mm	H max. mm	mm	D mm	Number	Number Nickel plated brass
M 16 x 1,5	20–1	6–12	16	36,5	22	27	1.608.1600.50	1.608.1603.50
M 20 x 1,5	20–1	6–12	16	36,5	22	27	1.608.2000.50	1.608.2003.50
M 20 x 1,5	20–2	9–16	16	41	24	29	1.608.2000.51	1.608.2003.51
M 25 x 1,5	20–3	12,5–20,5	16	48	30	35	1.608.2500.50	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)

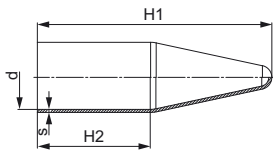


Fits the following sizes	D	d	S	Number
M 16	24	16,1	1,5	1.326.1600.50
M 20	28,5	20,5	1,5	1.326.2000.50
M 25	36,5	25,5	1,6	1.326.2500.50
M 32	42,5	32,5	1,6	1.326.3200.50
M 40	51,5	40	1,5	1.326.4000.50
M 50	61,5	51	1,6	1.326.5000.50
M 63	76	63,5	1,6	1.326.6300.50
M 75	87,5	75,5	1,8	1.326.7500.50

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

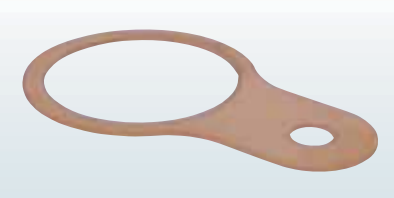
PVC Shroud

Material	PVC

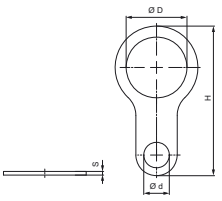


Fits the following sizes	H1 mm	H2 mm	d mm	Number
20 – 1	115	60	26	1.802.2000.50
20 – 2	125	70	28	1.802.2000.51
20 – 3	130	65	34	1.802.2000.52
25	160	90	42	1.802.2500.50
32	165	95	51	1.802.3200.50
40	200	110	63	1.802.4000.50
50	210	115	72	1.802.5000.50
63	245	140	88	1.802.6300.50
75	245	140	108	1.802.7500.50

Earthtag — Metr., NPT



Material: Brass

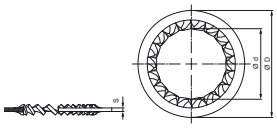


Size	D	d	s	H	Number
M 16	16	6,5	1,5	50,5	1.022.1600.50
M 20	21	7	1,5	54	1.022.2000.50
M 25	25,5	10,5	1,5	61,5	1.022.2500.50
M 32	33,5	12,5	1,5	77	1.022.3200.50
M 40	40,5	13,5	1,5	86,5	1.022.4000.50
M 50	51	13,5	1,5	111	1.022.5000.50
M 63	64	1,5	1,5	128,5	1.022.6300.50
M 75	75,5	13	1,5	138	1.022.7500.50

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

HSK-Ex e CABLE GLANDS

HSK-K-Ex-Active — Metr.

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

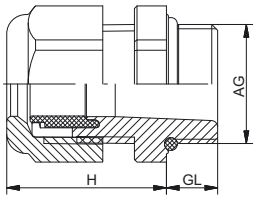
CE ATEX RoHS

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

cSPus 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.

ULFT 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

Accessories see page 75 and 143

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

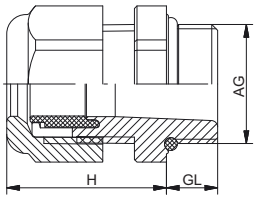
CE ATEX RoHS

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

cSPus 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.

UL in black color



AG	⌀ 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

Accessories see page 75 and 143

HSK-Ex e CABLE GLANDS

HSK-K-Multi-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: 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").

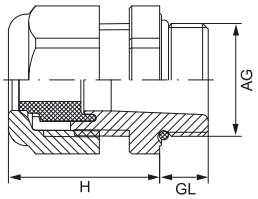
CE ATEX RoHS

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

cSPus 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.

ULFT in black color



AG	mm	H mm	GL mm	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	3x 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 x12	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

Accessories see page 75 and 143

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).

CE ATEX Ex RoHS

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

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

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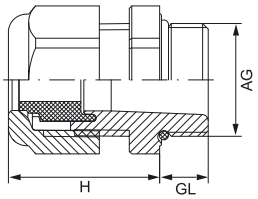
ULFT in black color



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

Accessories see page 75 and 143

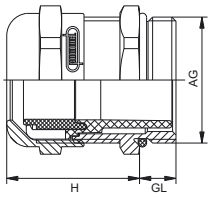
HSK-Ex e CABLE GLANDS

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)

II 2G 1D

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



AG	⌀ 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	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	

Accessories see page 75 and 143

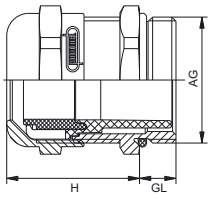
HSK-M-Ex / HSK-M-PVDF-Ex

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)

II 2G 1D

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



AG	⌀ 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	

Accessories see page 75 and 143

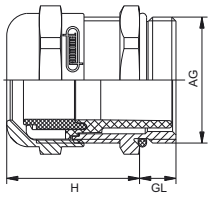
HSK-Ex e CABLE GLANDS

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)

II 2G 1D

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



AG	⌀ 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	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	
NPT 1"	13–20	19	29	40	1.610.1000.71	1.640.1000.71	

Accessories see page 75 and 143

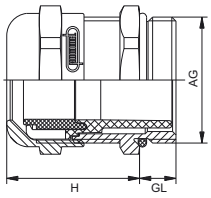
HSK-M-Ex / HSK-M-PVDF-Ex

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)

II 2G 1D

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



AG	⌀ 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

Accessories see page 75 and 143

HSK-Ex e CABLE GLANDS

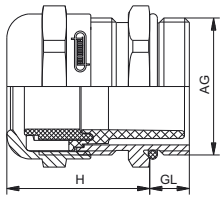
HSK-INOX-Ex / HSK-INOX-PVDF-Ex — Metr., PG

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

II 2G 1D

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



AG	⌀ mm	GL mm	H mm	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

Accessories see page 75 and 143

CABLE GLANDS FOR „HAZARDOUS AREAS“

HSK-EMC-Ex e cable glands

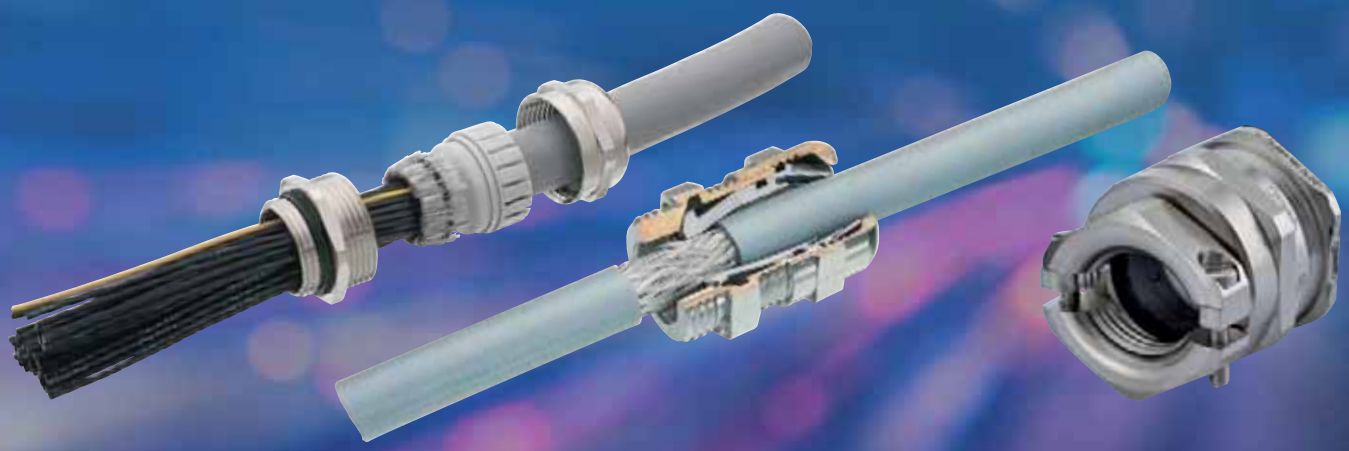
Cable glands of the HSK-EMC-Ex-series have been designed for standard applications in hazardous locations type „e“ according to EN 60079-0 and EN 60079-7.

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.



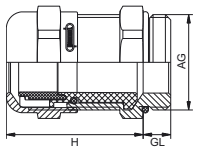
HSK-EMC-Ex e CABLE GLANDS

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)

II 2G 1D



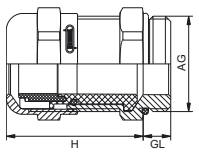
AG	⌀ mm	GL mm	H mm	mm	Number HSK-M-EMC-D-Ex -20 °C – 95 °C	Number HSK-M-EMC-D-Ex -60 °C – 95 °C
M 16 x 1,5	5–10	6	29	20	1.636.1600.50	1.637.1600.50
M 20 x 1,5	10–14	6	31	24	1.636.2000.50	1.637.2000.50
M 25 x 1,5	13–18	7	38	30	1.636.2500.50	1.637.2500.50
M 32 x 1,5	18–25	8	43	40	1.636.3200.50	1.637.3200.50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

II 2G 1D



AG	⌀ mm	GL mm	H mm	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

Accessories see page 75 and 143

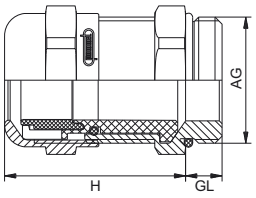
HSK-M-EMC-D-Ex

PG

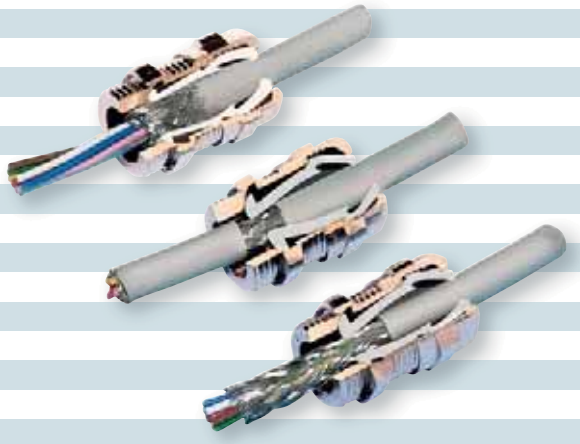
Material	Nickel plated brass
Clamping insert	Metalised Polyamide
Seal	Buna-N
O-Ring	Buna-N
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F) -60 °C – 95 °C (-76 °F – 203 °F)

II 2G 1D

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



AG	⌀ mm	GL mm	H mm	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



Accessories see page 75 and 143

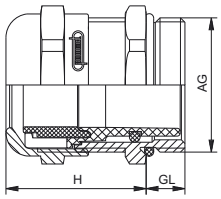
HSK-EMC-Ex e CABLE GLANDS

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)

II 2G 1D

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



AG	⌀ mm	GL mm	H mm	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

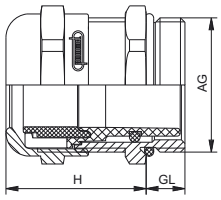
Accessories see page 75 and 143

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)

II 2G 1D

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



AG	⌀ mm	GL mm	H mm	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

Accessories see page 75 and 143

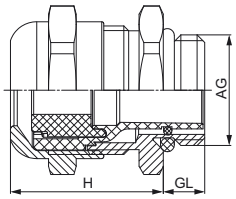
HSK-EMC-Ex e CABLE GLANDS

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)

II 2G 1D

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



AG	⌀ 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

Accessories see page 75 and 143

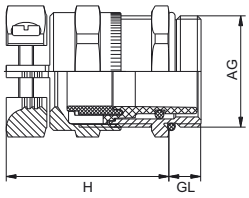
HSK-MZ-EMC-Ex

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)

II 2G 1D

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



AG	⌀ mm	GL mm	H mm	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

Accessories see page 75 and 143

HSK-EMC-Ex e CABLE GLANDS

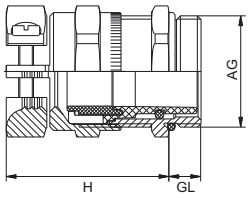
HSK-MZ-EMC-Ex / HSK-MZ-EMC-PVDF-Ex — PG, NPT

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)

CE SA IECEx RoHS

EAC ATEX Ex II 2G 1D

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



AG	⌀ mm	GL mm	H mm	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

Accessories see page 75 and 143

CABLE GLANDS FOR „HAZARDOUS AREAS“ Ex

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 stain 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.

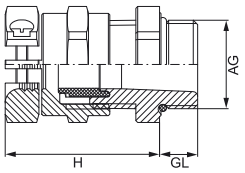
HSK-Ex e CABLE GLANDS FOR SPECIAL APPLICATIONS

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)

II 2G 1D



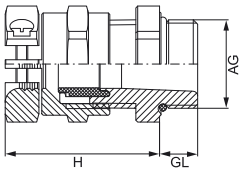
AG	⌀ mm	GL mm	H mm	mm	Number
M 16 x 1,5	4–8	15	29	19	1.215.1601.50
M 20 x 1,5	7–12	15	35,5	24	1.215.2001.50
M 25 x 1,5	13–18	11	41	33	1.215.2501.50
M 32 x 1,5	18–25	11	49	42	1.215.3201.50
M 40 x 1,5	22–32	13	58	53	1.215.4001.50
M 50 x 1,5	32–38	13	61,5	60	1.215.5001.50
M 63 x 1,5	37–44	14	62	65 / 68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

II 2G 1D



AG	⌀ mm	GL mm	H mm	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

Accessories see page 75 and 143

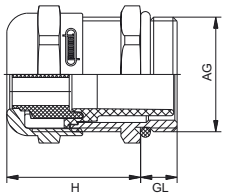
HSK-M-Multi-Ex — Metr., PG, NPT

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

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 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

Accessories see page 75 and 143

HSK-Ex e CABLE GLANDS FOR SPECIAL APPLICATIONS

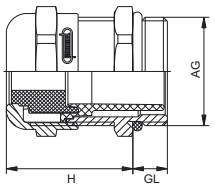
HSK-M-FLAKA-Ex — Metr.

// 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)

II 2G 1D



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		

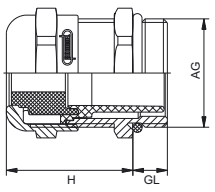
HSK-M-FLAKA-Ex — PG, NPT

// 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)

II 2G 1D



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		

Accessories see page 75 and 143

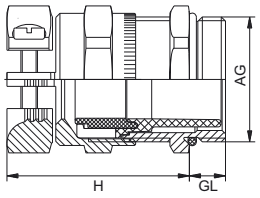
HSK-MZ-Ex / HSK-MZ-PVDF-Ex

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)

II 2G 1D

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



AG	⌀ mm	GL mm	H mm	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	

Accessories see page 75 and 143

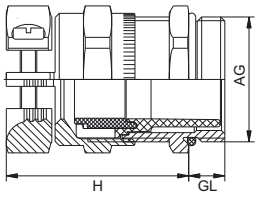
HSK-Ex e CABLE GLANDS FOR SPECIAL APPLICATIONS

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)

II 2G 1D

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



AG	⌀ mm	GL mm	H mm	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	

Accessories see page 75 and 143

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.

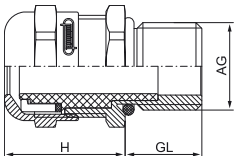
HSK-Ex d CABLE GLANDS

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



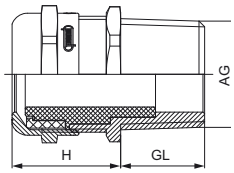
AG	⌀ mm	GL mm	H mm	mm	Number HSK-M-Ex d -60 °C – 105 °C	Number HSK-M-PVDF-Ex d -20 °C – 130 °C
M 12 x 1,5	3–6,5	16	18,7	14	1.622.1200.50	1.634.1200.50
M 12 x 1,5	2–5	16	18,7	14	1.622.1200.51	1.634.1200.51
M 16 x 1,5	5–10	16	22	20	1.622.1600.50	1.634.1600.50
M 16 x 1,5	3–7	16	22	20	1.622.1600.51	1.634.1600.51
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	⌀ mm	GL mm	H mm	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	
NPT 1"	14–20	25	32	40	1.622.1000.71	
NPT 1 1/4"	22–32	26	38,5	50	1.622.5400.70	
NPT 1 1/4"	20–26	26	38,5	50	1.622.5400.71	
NPT 1 1/2"	22–32	26,5	38,5	50	1.622.6400.70	
NPT 1 1/2"	20–26	26,5	38,5	50	1.622.6400.71	

Dimensions and specifications may be changed without prior notice

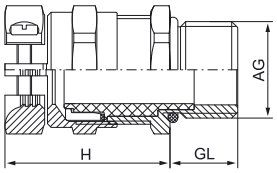
Accessories see page 75 and 143

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)

II 2G 1D Ex d IIC



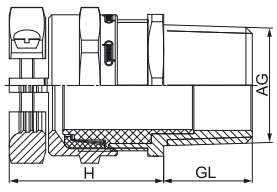
AG	⌀ mm	GL mm	H mm	mm	Number HSK-MZ-Ex d -60 °C – 105 °C
M 12 x 1,5	3–6,5	16	26	14	1.628.1200.50
M 16 x 1,5	5–10	16	30,2	20	1.628.1600.50
M 20 x 1,5	10–14	16	34	24	1.628.2000.50
M 25 x 1,5	13–18	16	37,8	30	1.628.2500.50
M 32 x 1,5	18–25	16	44	40	1.628.3200.50
M 40 x 1,5	22–32	16	51,5	50	1.628.4000.50

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)

II 2G 1D Ex d IIC



AG	⌀ mm	GL mm	H mm	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

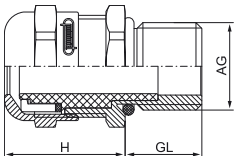
HSK-Ex d CABLE GLANDS

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



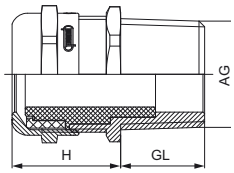
AG	⌀ mm	GL mm	H mm	mm	Number HSK-INOX-Ex d -60 °C – 105 °C	Number HSK-INOX-PVDF-Ex d -20 °C – 130 °C
M 12 x 1,5	3–6,5	16	19	14	1.632.1200.50	1.633.1200.50
M 12 x 1,5	2–5	16	19	14	1.632.1200.51	1.633.1200.51
M 16 x 1,5	5–10	16	22	20	1.632.1600.50	1.633.1600.50
M 16 x 1,5	3–7	16	22	20	1.632.1600.51	1.633.1600.51
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	⌀ mm	GL mm	H mm	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

Accessories see page 75 and 143

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

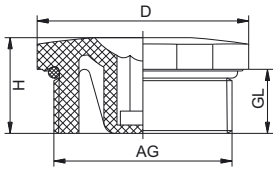
Ex ACCESSORIES

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



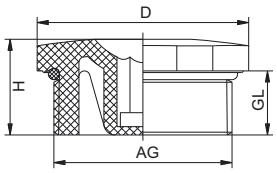
AG	GL mm	H mm	D mm	mm	mm	Number
M 12 x 1,5	8,5	13	16,5	15	6	1.297.1201.50
M 16 x 1,5	8,5	13	20,5	19	8	1.297.1601.50
M 20 x 1,5	9	14,5	25,5	24	8	1.297.2001.50
M 25 x 1,5	10,5	16	30,5	28	8	1.297.2501.50
M 32 x 1,5	11,5	17,5	38	36	8	1.297.3201.50
M 40 x 1,5	11,5	18	48	46	8	1.297.4001.50
M 50 x 1,5	13,5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



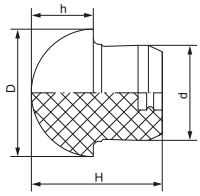
AG	GL mm	H mm	D mm	mm	mm	Number
PG 7	8,5	13	16,5	15	6	1.297.0701.11
PG 9	8,5	13	20,5	19	8	1.297.0901.11
PG 11	9	14,5	25,5	24	8	1.297.1101.11
PG 13,5	9	14,5	25,5	24	8	1.297.1301.11
PG 16	10,5	16	30,5	28	8	1.297.1601.11
PG 21	11,5	17,5	38	36	8	1.297.2101.11
PG 29	11,5	18	48	46	8	1.297.2901.11
PG 36	13,5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

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

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

II 2G 1D



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

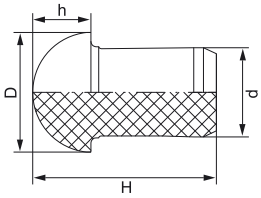
Plug HSK-V-Ex MZ version — Metr., PG, NPT

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

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

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

II 2G 1D



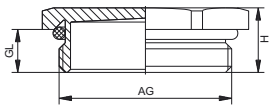
Fits the following sizes			D mm	d mm	H mm	h mm	Number
PG 7	M 12 x 1,5		9,5	6,3	18	4,5	1.296.0701.61
PG 9	M 16 x 1,5	NPT 3/8"	11	7,8	20,5	5,5	1.296.0901.61
PG 11	M 16 x 1,5		13,5	9,8	22	5,5	1.296.1101.61
PG 13,5	M 20 x 1,5	NPT 1/2"	16	11,8	26,5	8	1.296.1301.61
PG 16	M 20 x 1,5	NPT 1/2"/16	18,5	13,8	28,4	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



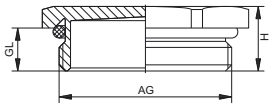
AG	GL mm	H mm	mm	Number V-Ms-Ex -20 °C – 95 °C	Number V-Ms-FKM-Ex -20 °C – 180 °C	Number V-Ms-VMQ-Ex -60 °C – 180 °C
M 12 x 1,5	6,5	9,5	14	1.197.1200.50	1.198.1200.50	1.199.1200.50
M 16 x 1,5	6	9	19	1.197.1600.50	1.198.1600.50	1.199.1600.50
M 20 x 1,5	6	9,5	22	1.197.2000.50	1.198.2000.50	1.199.2000.50
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



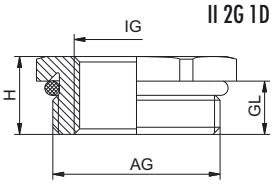
AG	GL mm	H mm	mm	Number V-Ms-Ex -20 °C – 95 °C	Number V-Ms-FKM-Ex -20 °C – 180 °C	Number V-Ms-VMQ-Ex -60 °C – 180 °C
PG 7	5	8	14	1.197.0700.01	1.198.0700.01	1.199.0700.01
PG 9	6	9	17	1.197.0900.01	1.198.0900.01	1.199.0900.01
PG 11	6	9,5	20	1.197.1100.01	1.198.1100.01	1.199.1100.01
PG 13,5	6,5	10	22	1.197.1300.01	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)

II 2G 1D



AG	IG	GL mm	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

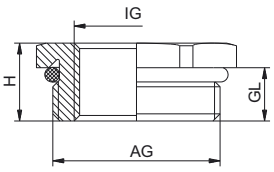
AG	IG	GL mm	mm	Number NBR -20 °C – 95 °C	Number VMQ -60 °C – 180 °C
M 50 x 1,5	M 32 x 1,5	9	55	1.078.5032.50	1.079.5032.50
M 50 x 1,5	M 40 x 1,5	9	55	1.078.5040.50	1.079.5040.50
M 63 x 1,5	M 32 x 1,5	10	65	1.078.6332.50	1.079.6332.50
M 63 x 1,5	M 40 x 1,5	10	65	1.078.6340.50	1.079.6340.50
M 63 x 1,5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

II 2G 1D



AG	IG	GL mm	H mm	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

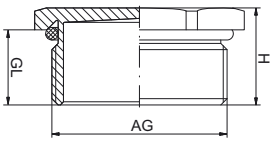
Plug V-Ms-Ex d — Metr., NPT

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)

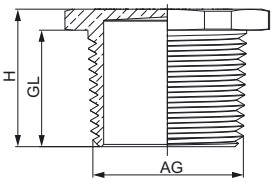
II 2G 1D

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

Metr.



NPT



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			

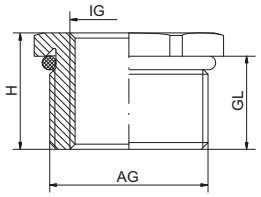
Adapter RSD-Ms-Ex d

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.



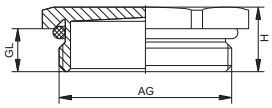
AG	IG	GL mm	H mm	mm	Number Buna-N -20 °C – 95 °C	Number VMQ -60 °C – 180 °C
M 16 x 1,5	M 12 x 1,5	16	19	19	1.878.1612.50	1.879.1612.50
M 20 x 1,5	M 12 x 1,5	16	19,5	22	1.878.2012.50	1.879.2012.50
M 20 x 1,5	M 16 x 1,5	16	19,5	22	1.878.2016.50	1.879.2016.50
M 25 x 1,5	M 16 x 1,5	16	19,5	30	1.878.2516.50	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



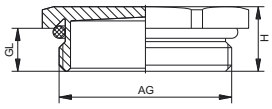
AG	GL mm	H mm	mm	Number V-INOX-Ex -20 °C – 95 °C	Number V-INOX-FKM-Ex -20 °C – 180 °C	Number V-INOX-VMQ-Ex -60 °C – 180 °C
M 12 x 1,5	6,5	9,5	14	1.192.1200.50	1.193.1200.50	1.194.1200.50
M 16 x 1,5	6	9	19	1.192.1600.50	1.193.1600.50	1.194.1600.50
M 20 x 1,5	6	9,5	22	1.192.2000.50	1.193.2000.50	1.194.2000.50
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**.

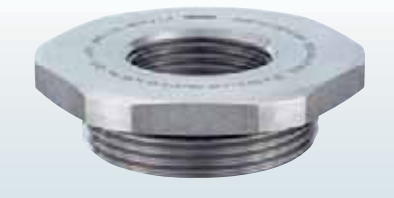
Material	INOX (1.4305)
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
V-INOX-Ex O-Ring	Buna-N
V-INOX-FKM-Ex O-Ring	FKM
V-INOX-VMQ-Ex O-Ring	VMQ
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F) (Buna-N) -20 °C – 180 °C (-4 °F – 356 °F) (FKM) / -60 °C – 180 °C (-76 °F – 356 °F) (VMQ)

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

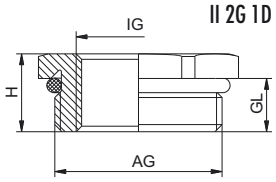
Adapter RSD-INOX-Ex — Metr.



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)

II 2G 1D



AG	IG	GL mm	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

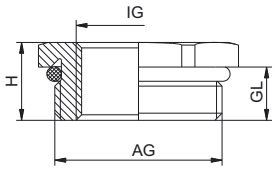
AG	IG	GL mm	mm	Number Buna-N -20 °C – 95 °C	Number VMQ -60 °C – 180 °C
M 50 x 1,5	M 32 x 1,5	9	55	1.098.5032.50	1.099.5032.50
M 50 x 1,5	M 40 x 1,5	9	55	1.098.5040.50	1.099.5040.50
M 63 x 1,5	M 32 x 1,5	10	65	1.098.6332.50	1.099.6332.50
M 63 x 1,5	M 40 x 1,5	10	65	1.098.6340.50	1.099.6340.50
M 63 x 1,5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

II 2G 1D



AG	IG	GL mm	H mm	mm	Number Buna-N -20 °C – 95 °C	Number VMQ -60 °C – 180 °C
PG 9	PG 7	6	8,8	17	1.098.0907.01	1.099.0907.01
PG 11	PG 7	6	9	20	1.098.1107.01	1.099.1107.01
PG 11	PG 9	6	9	20	1.098.1109.01	1.099.1109.01
PG 13,5	PG 9	6,5	9,5	22	1.098.1309.01	1.099.1309.01
PG 13,5	PG 11	6,5	9,5	22	1.098.1311.01	1.099.1311.01
PG 16	PG 9	6,5	9,5	24	1.098.1609.01	1.099.1609.01
PG 16	PG 11	6,5	9,5	24	1.098.1611.01	1.099.1611.01
PG 16	PG 13,5	6,5	9,5	24	1.098.1613.01	1.099.1613.01
PG 21	PG 11	7	10,3	30	1.098.2111.01	1.099.2111.01
PG 21	PG 13,5	7	10,3	30	1.098.2113.01	1.099.2113.01
PG 21	PG 16	7	10,3	30	1.098.2116.01	1.099.2116.01
PG 29	PG 16	8	11,5	40	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	40	1.098.2921.01	1.099.2921.01
PG 36	PG 21	9	12,5	50	1.098.3621.01	1.099.3621.01
PG 36	PG 29	9	12,5	50	1.098.3629.01	1.099.3629.01
PG 42	PG 29	10	13,5	57	1.098.4229.01	1.099.4229.01
PG 42	PG 36	10	13,5	57	1.098.4236.01	1.099.4236.01
PG 48	PG 36	10	13,5	64	1.098.4836.01	1.099.4836.01
PG 48	PG 42	10	13,5	64	1.098.4842.01	1.099.4842.01

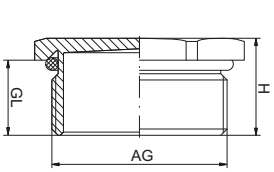
Plug V-INOX-Ex d — Metr., NPT

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)

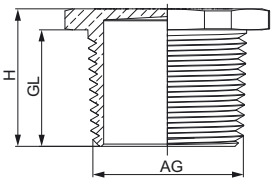
II 2G 1D Ex d IIC

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

Metr.



NPT



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			

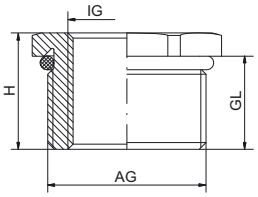
Adapter RSD-INOX-Ex d

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

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	Number 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

Other International Ex-Certifications

South Korea **KTL** 14-KB4BO

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

China **CQST** CNEx06.1147U
CQST CNEx06.1148U

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

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

IECEx DEK 12.0039X

Approvals for HSK Strain Relief Fittings* / Licence Number 40012033

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

TECHNICAL INFORMATION

International Protection, EN 60529

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
Protection against human access to hazardous parts	Protection of equipment against penetration of solid foreign objects			IP x0	IP x1	IP x2	IP x3	IP x4	IP x5	IP x6	IP x7	IP x8
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

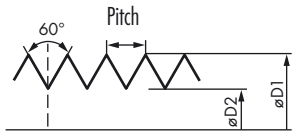
CR	Chloroprene rubber
FKM	Fluorelastomer
Ms	Nickel plated brass
NBR	Buna-N
PA	Polyamide
PE	Polyethylene
PP	Polypropylene
PVC	Polyvinylchloride
PVDF	Polyvinylidenfluoride
SB	Styrene Butadiene
VMQ	Silicone

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").

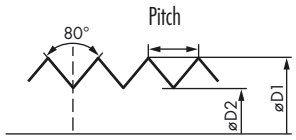
Flat cable inserts: The clamping range of the cable used may not deviate from the manufacturer-specified minimum values by more than 1 mm in length and 1 mm in width. The geometries of the cable and the insert hole must be compatible (semicircular or straight at the sides).

Metric ISO Thread Specifications



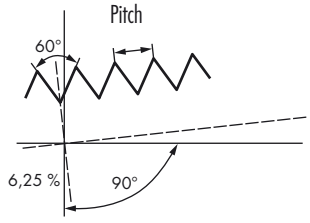
Size	Pitch mm	Outside-Ø D1 mm	Inside-Ø D2 mm	Through hole mm
M 12 x 1,5	1,5	12	10,38	12,2
M 16 x 1,5	1,5	16	14,38	16,2
M 20 x 1,5	1,5	20	18,38	20,2
M 25 x 1,5	1,5	25	23,38	25,2
M 32 x 1,5	1,5	32	30,38	32,2
M 40 x 1,5	1,5	40	38,38	40,2
M 50 x 1,5	1,5	50	48,38	50,2
M 63 x 1,5	1,5	63	61,38	63,2

PG Thread Specifications



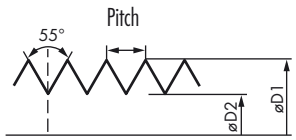
Size	Pitch mm	Outside-Ø D1 mm	Inside-Ø D2 mm	Through hole mm
PG 7	1,270	12,5	11,28	12,7
PG 9	1,410	15,2	13,86	15,4
PG 11	1,410	18,6	17,26	18,8
PG 13,5	1,410	20,4	19,06	20,7
PG 16	1,410	22,5	21,16	22,8
PG 21	1,588	28,3	26,78	28,6
PG 29	1,588	37,0	35,48	37,4
PG 36	1,588	47,0	45,48	47,5
PG 42	1,588	54,0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

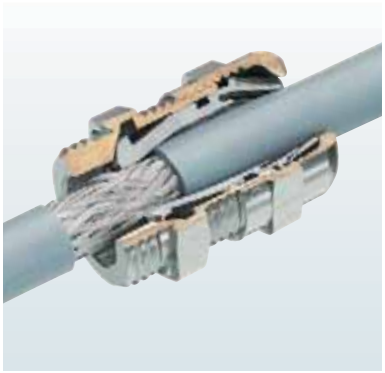
// Strip cable
// Expose braided shield

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)

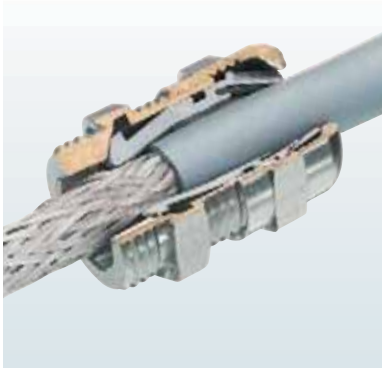
Step 3

// 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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