HUMMEL

Setting Standards

Cable Glands
Cable Protection

2013

Setting Standards

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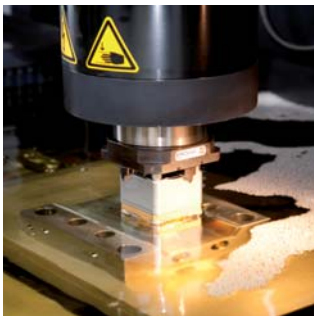
HUMMEL AG



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Online Catalog

- Product Pictures and Product Information
- Product and Assembly Videos
- Assembly and Operations Manual
- Technical drawings
- 3D data
- Certificates

Download-Center

- Catalog and Flyer
- Assembly instructions and installation instructions
- Press releases
- Certificates and approvals
- ...

Searching Products

- Part Number search
- Searching Details

Enclosure-Configurator

- Individual Enclosures
- Enclosure Solutions
- Online configuration, requesting and ordering

Technology Center

- Technical Information
  (Protection, thread, material, ...)
- Diagrams and evaluation
- Product description
- Assembly Video and Operations Manual

News of the HUMMEL AG

- Trade fairs and exhibitions
- Press releases
- New Products
- Job vacancies
- Studies, training and vocational practical training

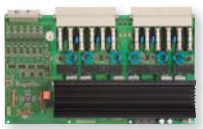
Solutions all from one source

Touch

Cable Glands,
Circular Connectors

Solutions

Industrial Enclosures



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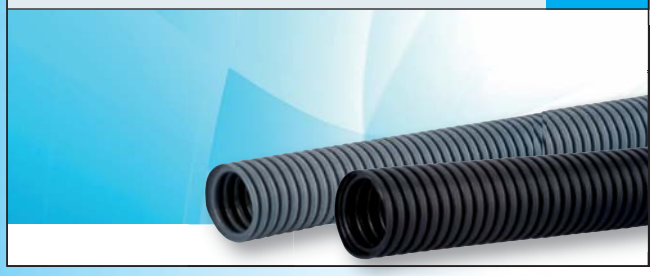
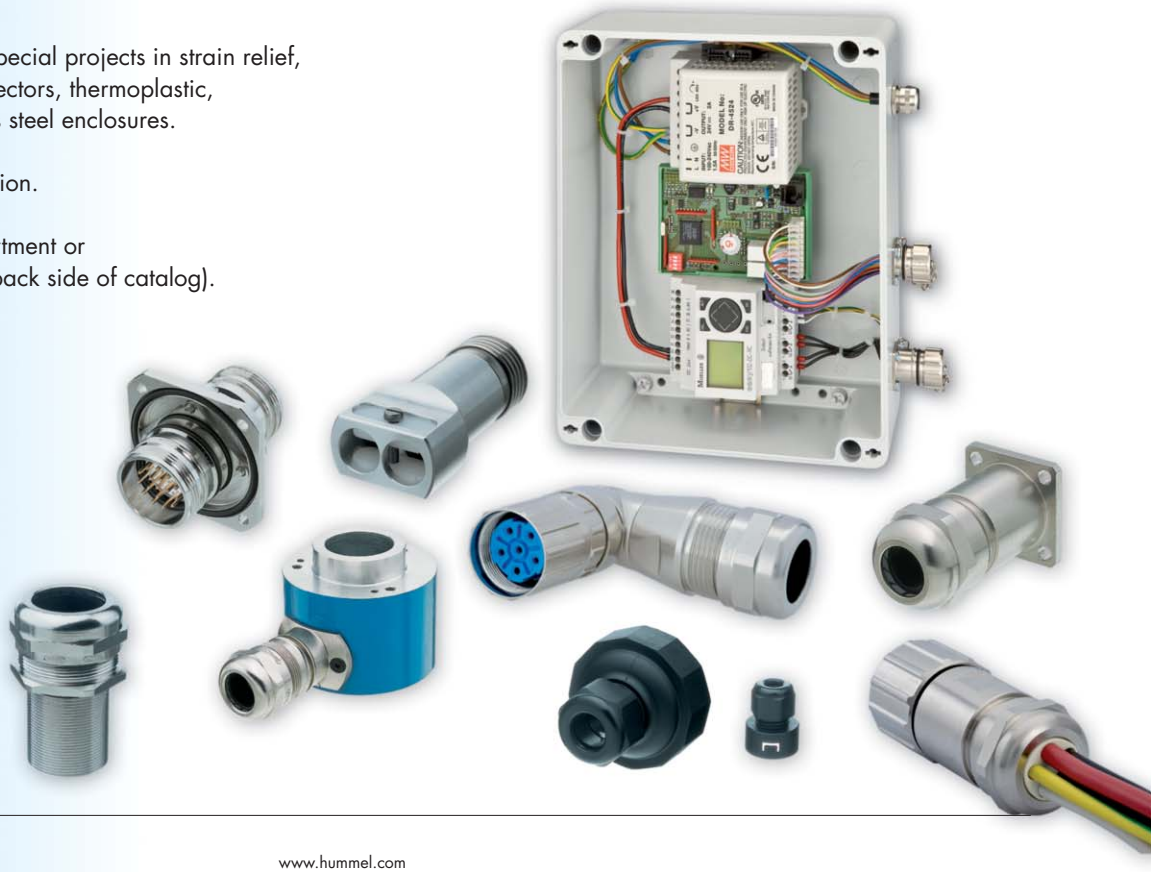


Special Products

HUMMEL is your partner for special projects in strain relief, conduit systems, circular connectors, thermoplastic, aluminium, metal and stainless steel enclosures.

Challenge us – we find a solution.

Please contact our sales department or engineering department (see back side of catalog).



New Products

+ **EXIOS Barrier** high end cable gland for armoured cables in hazardous areas M16 x 1,5 to M75 x 1,5 NPT 3/8″ to NPT 3″

▸ Product on page 106

+ **EXIOS A2F** Ex-e and Ex-d cable gland for non-armoured cables for hazardous areas in the sizes M16 x 1,5 to M75 x 1,5

▸ Product on page 108

+ **Snapturn-elbow** for Snapflex conduits with 90° and 135° elbow with brass or plastic thread sizes M16 x 1,5 to M50 x 1,5

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HSK-Industry Standard

IP 69 K

also in

+ Halogen- and phospherous-free
+ Fire protection class V0 according to UL 94
+ ULf1 UV-stable HSK Black Nylon
+ Liquid tight per NEMA 4x & 6 to 150 PSIG (IP 68 to 10 bar) according to DIN EN 60529
+ Patented ratchet and spline secures the dome nut on the body

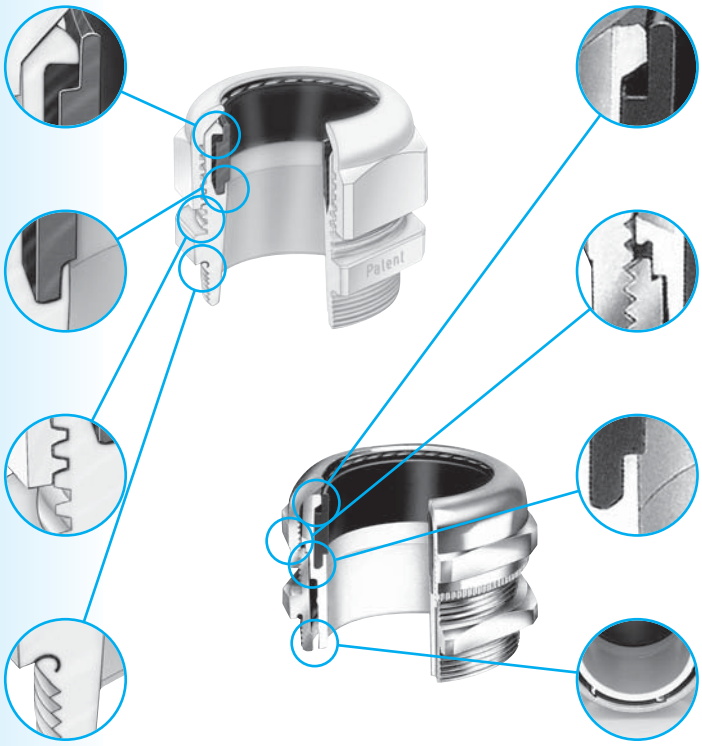
HSK-K

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

HSK-EMC-Industry Standard

also in

IP 69 K

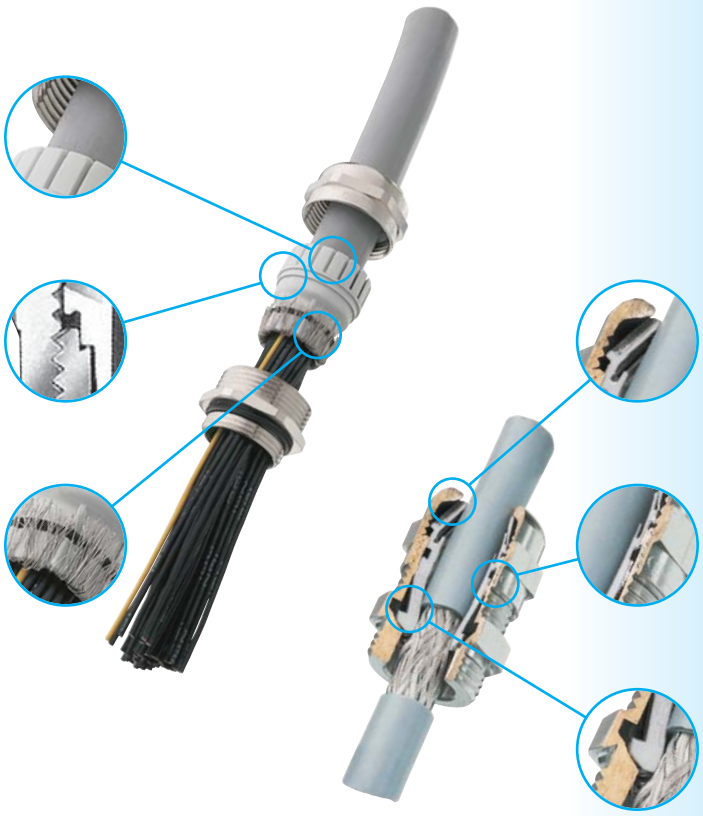
+ Halogen- and phospherous-free
+ Fire protection class V0 according to UL 94
+ Liquid tight per NEMA 4x & 6 to 150 PSIG (IP 68 to 10 bar) according to DIN EN 60529
+ Quick assembly and reliable grounding of shielded cables

HSK-M-EMV

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-EMV-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

Assembly Instructions starting on page 180/181 • Products starting page 29

Snapclic-DUO

+ Conduit fitting and cable gland in one article
+ Halogen- and phospherous-free
+ Quick assembly
+ IP 68 degree of protection on cable gland according to DIN EN 60529
+ EMC version available

screw in

tighten nut

push into hole

finished

Snapclic-DUO

Corrugated conduit mounting with integrated cable gland

Products starting page 162

Industrial cable glands

HSK-standard 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 standard cable glands, 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.

Contact us:
E-Mail: info.et@hummel.com
Tel.: +49 (0) 76 66 / 91 110-0

Advice:

➡ HSK EMC cable glands can be found in the next chapter from page 29

➡ Cable glands with smaller threads than M12 and larger threads than M63, multi hole fittings and much more can be found in the chapter "HSK cable glands for special applications" from page 37

HSK-standard cable glands

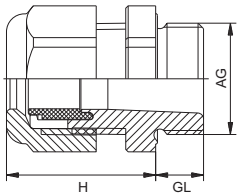
HSK-K

Metr.

Material	Polyamide V0 according to UL 94
Seal	Buna-N
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG) within the specified clamping range, only with optional 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"

in black color

Advice:
- With additional pre-assembled O-Ring upon request
- Please find suitable O-Ring on page 88
- Other sealing material e.g. Silicone upon request
- Other colors on request



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

Accessories see page 73

Dimensions and specifications may be changed without prior notice

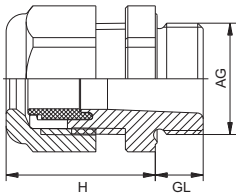
HSK-K

Metr.-elongated

Material	Polyamide V0 according to UL 94
Seal	Buna-N
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG) within the specified clamping range, only with optional 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"

in black color

Advice:
- With additional pre-assembled O-Ring upon request
- Please find suitable O-Ring on page 88
- Other sealing material e.g. Silicone upon request
- Other colors on request



AG	⌀ mm	GL mm	H mm	mm	Number grey	Number black	Number blue
M 12 x 1,5	3–6,5	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 73

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HSK-K

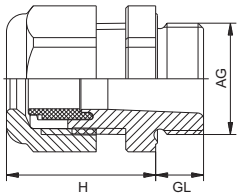
PG

Material	Polyamide V0 according to UL 94
Seal	Buna-N
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG) within the specified clamping range, only with optional 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"

RoHS

in black color ULf1

Advice:
- With additional pre-assembled O-Ring upon request
- Please find suitable O-Ring on page 88
- Other sealing material e.g. Silicone upon request
- Other colors on request



AG	⌀ mm	GL mm	H mm	mm	Number grey	Number black	Number blue
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

Advice: see page 18 for further polyamide cable glands with special clamping ranges in PG threads

Accessories see page 73

Dimensions and specifications may be changed without prior notice

HSK-K

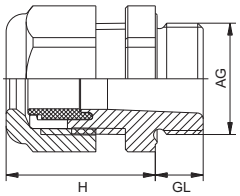
PG-elongated

RoHS

Material	Polyamide V0 according to UL 94
Seal	Buna-N
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG) within the specified clamping range, only with optional 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"

ULf1 in black color

Advice:
- With additional pre-assembled O-Ring upon request
- Please find suitable O-Ring on page 88
- Other sealing material e.g. Silicone upon request
- Other colors on request



AG	⌀ mm	GL mm	H mm	mm	Number grey	Number black	Number blue
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 73

HSK-standard cable glands

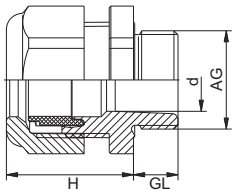
HSK-KE

PG

Advice:
- With additional pre-assembled O-Ring upon request
- Please find suitable O-Ring on page 88
- Other sealing material and colors upon request

Material	Polyamide V0 according to UL 94
Seal	Buna-N
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG) within the specified clamping range, only with optional O-Ring
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)
Colors	grey (RAL 7035), black (RAL 9005)

in black color



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

Accessories see page 71

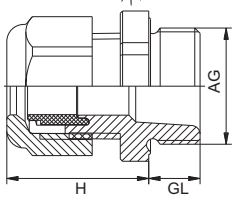
HSK-KR

PG

Advice:
- With additional pre-assembled O-Ring upon request
- Please find suitable O-Ring on page 88
- Other sealing material and colors upon request

Material	Polyamide V0 according to UL 94
Seal	Buna-N
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG) within the specified clamping range, only with optional O-Ring
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)
Colors	grey (RAL 7035), black (RAL 9005)

in black color



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 73

Dimensions and specifications may be changed without prior notice

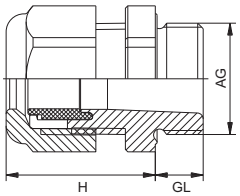
HSK-K NPT

RoHS

Material	Polyamide V0 according to UL 94
Seal	Buna-N
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG) within the specified clamping range, only with optional 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"

ULf1 in black color

Advice:
- With additional pre-assembled O-Ring upon request
- Please find suitable O-Ring on page 88
- Other sealing material e.g. Silicone upon request
- Other colors on request



AG	⌀ mm	GL mm	H mm	mm	Number grey	Number black	Number blue
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

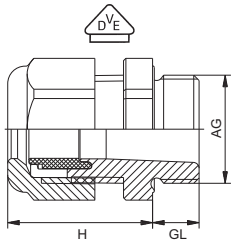
Accessories see page 73

HSK-standard cable glands

HSK-K-PVDF — Metr.

Advice:
- With additional pre-assembled O-Ring upon request
- Please find suitable O-Ring on page 88
- Other sealing material and colors upon request

Material	PVDF V0 according to UL 94
Seal	FPM
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG) within the specified clamping range, only with optional O-Ring
Operating Temperature	-35 °C – 150 °C (-31 °F – 302 °F)
Colors	nature



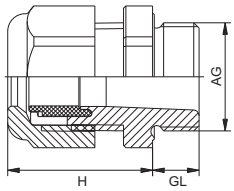
AG	⌀ mm	GL mm	H mm	mm	Number
M 12 x 1,5	3 – 6,5	8	21	15	1.299.1200.50
M 12 x 1,5	2 – 5	8	21	15	1.299.1200.51
M 16 x 1,5	4 – 8	8	22	19	1.299.1600.50
M 16 x 1,5	2 – 6	8	22	19	1.299.1600.51
M 20 x 1,5	6 – 12	9	27	24	1.299.2000.50
M 20 x 1,5	5 – 9	9	27	24	1.299.2000.51
M 25 x 1,5	13 – 18	11	31	33	1.299.2500.50
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 73

HSK-K-PVDF — NPT

Advice:
- With additional pre-assembled O-Ring upon request
- Please find suitable O-Ring on page 88
- Other sealing material and colors upon request

Material	PVDF V0 according to UL 94
Seal	FPM
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG) within the specified clamping range, only with optional O-Ring
Operating Temperature	-35 °C – 150 °C (-31 °F – 302 °F)
Colors	nature



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 73

Dimensions and specifications may be changed without prior notice

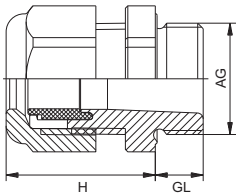
HSK-K-PVDF

PG

RoHS

Material	PVDF V0 according to UL 94
Seal	FPM
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG) within the specified clamping range, only with optional O-Ring
Operating Temperature	-35 °C – 150 °C (-31 °F – 302 °F)
Colors	nature

Advice:
- With additional pre-assembled O-Ring upon request
- Please find suitable O-Ring on page 88
- 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 73

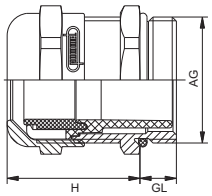
HSK-standard cable glands

HSK-M / HSK-M-PVDF

Metr.

Material	Nickel plated brass
Clamping insert	Polyamide / PVDF
Seal	Buna-N / FPM
O-Ring	Buna-N / FPM
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)

Advice:
- Other sealing material e.g. Silicone upon request
- Please see page 51 for size < M12 and > M63



AG	⌀ mm	GL mm	H mm	mm	Number HSK-M -40 °C – 100 °C -40 °F – 212 °F	Number HSK-M-PVDF -35 °C – 150 °C -31 °F – 302 °F
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 73

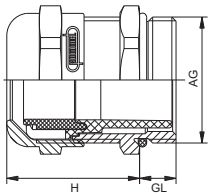
Dimensions and specifications may be changed without prior notice

HSK-M / HSK-M-PVDF

Metr.-elongated

Material	Nickel plated brass
Clamping insert	Polyamide / PVDF
Seal	Buna-N / FPM
O-Ring	Buna-N / FPM
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)

Advice:
- Other sealing material e.g. Silicone upon request
- Please see page 51 for size < M12 and > M63



AG mm	⌀ mm	GL mm	H mm	mm	Number HSK-M -40 °C – 100 °C -40 °F – 212 °F	Number HSK-M-PVDF -35 °C – 150 °C -31 °F – 302 °F
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 73

HSK-standard cable glands

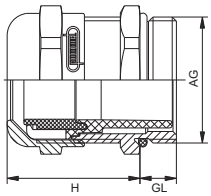
HSK-M / HSK-M-PVDF

PG

Material	Nickel plated brass
Clamping insert	Polyamide / PVDF
Seal	Buna-N / FPM
O-Ring	Buna-N / FPM
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)

RoHS

Advice:
- Other sealing material e.g. Silicone upon request



AG	⌀ mm	GL mm	H mm	mm	Number HSK-M -40 °C – 100 °C -40 °F – 212 °F	Number HSK-M-PVDF -35 °C – 150 °C -31 °F – 302 °F
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 73

Dimensions and specifications may be changed without prior notice

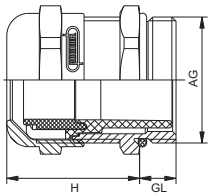
HSK-M / HSK-M-PVDF

PG-elongated

RoHS

Material	Nickel plated brass
Clamping insert	Polyamide / PVDF
Seal	Buna-N / FPM
O-Ring	Buna-N / FPM
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)

Advice:
- Other sealing material e.g. Silicone upon request



AG	⌀ mm	GL mm	H mm	mm	Number HSK-M -40 °C – 100 °C -40 °F – 212 °F	Number HSK-M-PVDF -35 °C – 150 °C -31 °F – 302 °F
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 73

HSK-standard cable glands

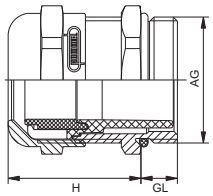
HSK-M / HSK-M-PVDF

NPT

Material	Nickel plated brass
Clamping insert	Polyamide / PVDF
Seal	Buna-N / FPM
O-Ring	Buna-N / FPM
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)

RoHS

Advice:
- Other sealing material e.g. Silicone upon request



AG	⌀ mm	GL mm	H mm	mm	Number HSK-M -40 °C – 100 °C -40 °F – 212 °F	Number HSK-M-PVDF -35 °C – 150 °C -31 °F – 302 °F
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 73

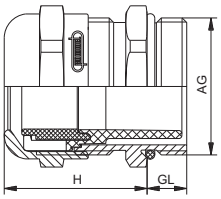
Dimensions and specifications may be changed without prior notice

HSK-INOX / HSK-INOX-PVDF

Metr.

Material	INOX 1.4305 / 1.4404
Clamping insert	Polyamide / PVDF
Seal	Buna-N / FPM
O-Ring	Buna-N / FPM
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)

Advice:
- Other sealing material e.g. Silicone upon request
- Other sizes 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 73

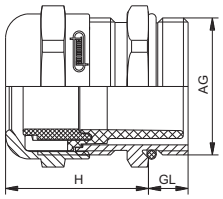
HSK-standard cable glands

HSK-INOX / HSK-INOX-PVDF — PG, NPT

Material	INOX 1.4305 / 1.4404
Clamping insert	Polyamide / PVDF
Seal	Buna-N / FPM
O-Ring	Buna-N / FPM
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)

Advice:
- Other sealing material e.g. Silicone upon request

RoHS



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
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 73

Dimensions and specifications may be changed without prior notice

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 EMC cable glands
- EMC-D version with Best EMI attenuation and easy installation
- EMC standard version
- with additional bending protection
- with additional strain relief

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

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

Contact us:
E-Mail: info.et@hummel.com
Tel.: +49 (0) 76 66 / 91 110-0

Advice:

→ Do you need EMC boxes or EMC connectors? You can find suitable solutions in our catalogs „Enclosure Solutions“ and „Circular Connectors“

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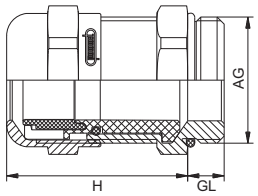
HSK-M-EMV-D

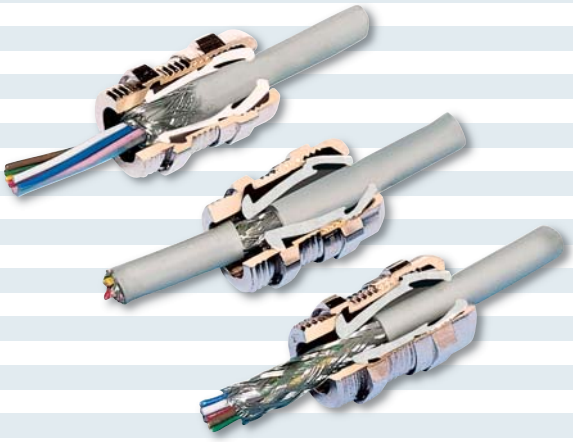
Metr., Metr.-elongated

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) within the specified clamping range
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)

Advice:
- Other sealing material e.g. Silicone upon request



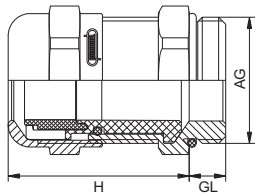
AG	⌀ mm	GL mm	H mm	mm	Number	GL mm	Number long
M 12 x 1,5	3 – 6,5	6,5	25	14	1.631.1200.50	10	1.631.1200.30
M 16 x 1,5	4 – 8	6	29	17/19	1.631.1609.50	10	1.631.1609.30
M 16 x 1,5	5 – 10	6	32	20	1.631.1600.50	10	1.631.1600.30
M 20 x 1,5	6 – 12	6	32,5	22	1.631.2013.50	10	1.631.2013.30
M 20 x 1,5	10 – 14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



Accessories see page 73

Dimensions and specifications may be changed without prior notice

HSK-M-EMV-D — PG



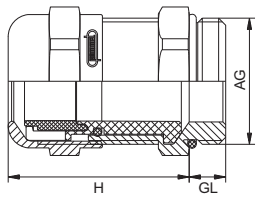
Material	Nickel plated brass
Clamping insert	Metalised polyamide
Seal	Buna-N
O-Ring	Buna-N
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG) within the specified clamping range
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)

Advice:
- Other sealing material e.g. Silicone upon request
- Elongated threads on request

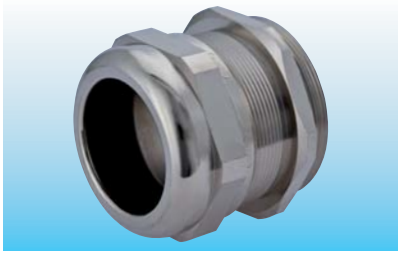
AG	⌀ mm	GL mm	H mm	mm	Number
PG 7	3 – 6,5	5	24	14	1.631.0700.01
PG 9	4 – 8	6	28	17	1.631.0900.01
PG 11	5 – 10	6	29	20	1.631.1100.01
PG 13,5	6 – 12	6,5	31	22	1.631.1300.01
PG 16	10 – 14	6,5	32	24	1.631.1600.01
PG 21	13 – 18	7	38	30	1.631.2100.01
PG 29	18 – 25	8	43	40	1.631.2900.01
PG 36	24 – 32	8	48	50	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

Accessories see page 73

HSK-M-EMV-D — 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) within the specified clamping range
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)



Advice:
- Other sealing material e.g. Silicone upon request

AG	⌀ mm	GL mm	H mm	mm	Number
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 73

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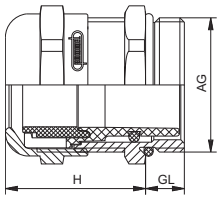
HSK-M-EMV

Metr., Metr.-elongated

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) within the specified clamping range
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)

Advice:
- Other sealing material e.g. Silicone upon request
- Stainless steel on request

See our homepage www.hummel.com for assembling advices for maximum cable diameters



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

Accessories see page 73

Dimensions and specifications may be changed without prior notice

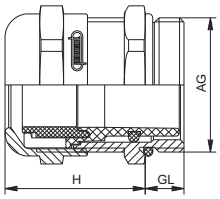
HSK-M-EMV

PG, PG-elongated, NPT

RoHS

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) within the specified clamping range
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)

Advice:
- Also available in PVDF
- Other sealing material e.g. Silicone upon request
- Stainless steel on request



AG	⌀ mm	GL mm	H mm	mm	Number	GL mm	Number elongated
PG 7	3 – 6,5	5	19	14	1.691.0700.01	10	1.691.0700.60
PG 7	2 – 5	5	19	14	1.691.0700.15	10	1.691.0700.61
PG 9	4 – 8	6	21	17	1.691.0900.01	10	1.691.0900.60
PG 9	2 – 6	6	21	17	1.691.0900.15	10	1.691.0900.61
PG 11	5 – 10	6	22	20	1.691.1100.01	10	1.691.1100.60
PG 11	3 – 7	6	22	20	1.691.1100.15	10	1.691.1100.61
PG 13,5	6 – 12	6,5	24	22	1.691.1300.01	10	1.691.1300.60
PG 13,5	5 – 9	6,5	24	22	1.691.1300.15	10	1.691.1300.61
PG 16	10 – 14	6,5	23	24	1.691.1600.01	10	1.691.1600.60
PG 16	7 – 12	6,5	23	24	1.691.1600.15	10	1.691.1600.61
PG 21	13 – 18	7	24	30	1.691.2100.01	12	1.691.2100.60
PG 21	9 – 16	7	24	30	1.691.2100.15	12	1.691.2100.61
PG 29	18 – 25	8	29	40	1.691.2900.01	12	1.691.2900.60
PG 29	13 – 20	8	29	40	1.691.2900.15	12	1.691.2900.61
PG 36	22 – 32	8	35	50	1.691.3600.01	15	1.691.3600.60
PG 36	20 – 26	8	35	50	1.691.3600.15	15	1.691.3600.61
PG 42	32 – 38	9	37	57	1.691.4200.01	15	1.691.4200.60
PG 42	25 – 31	9	37	57	1.691.4200.15	15	1.691.4200.61
PG 48	37 – 44	10	38	64	1.691.4800.01	15	1.691.4800.60
PG 48	29 – 35	10	38	64	1.691.4800.15	15	1.691.4800.61
NPT 3/8"	4 – 8	15	21	17/19	1.691.3800.70		
NPT 3/8"	2 – 6	15	21	17/19	1.691.3800.71		
NPT 1/2"	6 – 12	13	24	22/24	1.691.1200.70		
NPT 1/2"	5 – 9	13	24	22/24	1.691.1200.71		
NPT 3/4"	13 – 18	13	25	30	1.691.3400.70		
NPT 3/4"	9 – 16	13	25	30	1.691.3400.71		

Accessories see page 73

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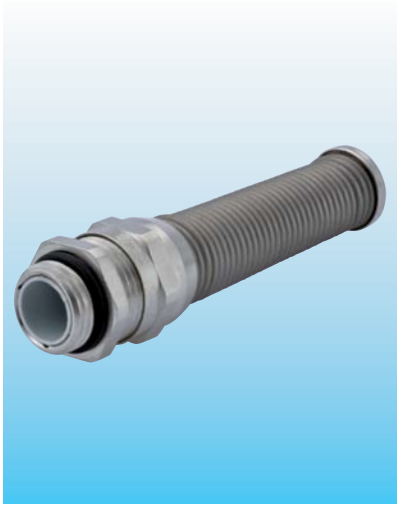
HSK-M-Flex-EMV

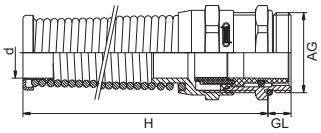
Metr., Metr.-elongated



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) within the specified clamping range
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)

See our homepage www.hummel.com for assembling advices for maximum cable diameters

Advice:
- Other sealing material e.g. Silicone upon request



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

Accessories see page 73

Dimensions and specifications may be changed without prior notice

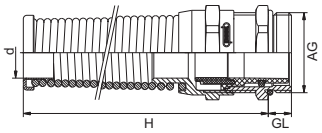
HSK-M-Flex-EMV

PG, PG-elongated, NPT

RoHS

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) within the specified clamping range
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)

Advice:
- Also available in PVDF
- Other sealing material e.g. Silicone upon request



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

Accessories see page 73

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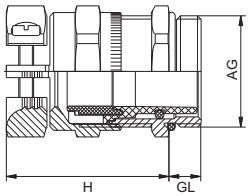
HSK-MZ-EMV

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) within the specified clamping range
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)

Advice:
- Also available in PVDF*
- Other sealing material e.g. Silicone upon request

See our homepage www.hummel.com for assembling advices for maximum cable diameters



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

Accessories see page 73

Dimensions and specifications may be changed without prior notice

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 glands
- for hygienic areas like food production, pharmaceutical and chemical industries, biotechnology and clean room
- made of polyamide and nickel plated brass with multi hole and flat cable sealing inserts
- made of polyamide and nickel plated brass with bending protection
- snap elbows made of polyamide and nickel plated brass
- Minis in the sizes M6 to M10 and PG7
- XL in the sizes M63 with extended clamping range to M110 and XL cable glands with pipe threads from G2 1/2" to G4"
- with additional strain relief

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

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

Contact us:
E-Mail: info.et@hummel.com
Tel.: +49 (0) 76 66 / 91 110-0

HSK-INOX Hygienic-Design

www.hummel.com

The HSK-INOX Hygienic Design has been developed for all areas which require the avoidance of possible bacteria and micro-organism deposits, for example in food, pharmaceutical and chemical industries, biotechnology and clean room areas.

Characteristics

- Available sizes: M 12 to M 25
- Operating Temperature:
  -40 °C – 120 °C (-40 °F – 248 °F)
  -35 °C – 150 °C (-31 °F – 302 °F)
  PVDF version (on request)
- Protection: IP 66, IP 68
- EMC protection

Certifications

- EHEDG conforming materials
- FDA conforming materials

Materials HD-shell

- Made of stainless steel grade 1.4404/ AISI 316 L, surface roughness < 0,8 µm
- Silicone seals made of VMQ

Advantages

- Easy and efficient to clean
- Fast and simple installation
- High chemical and thermal resistance

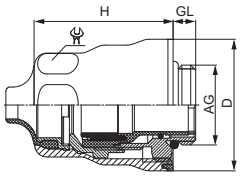
Dimensions and specifications may be changed without prior notice

HSK-INOX-HD

Metr.

Material HD-shell	1.4404 / AISI 316 L
Seal HD-shell	VMQ (Silicone), blue
Protection	IP 66, IP 68
Operating Temperature	-40 °C – 120 °C (-40 °F – 248 °F)

Advice:
- Elongated threads on request
- Other sizes upon request
- IP 69 K on request
- Other temperature range on request



AG	⌀ mm	GL mm	H mm	D mm	mm	Number
M 12 x 1,5	3,5 – 6,5	6	30	21	14	1.740.1202.50
M 16 x 1,5	5 – 10	6	34	27	18 / 20	1.740.1602.50
M 20 x 1,5	10 – 14	6	34,5	33	24	1.740.2002.50
M 25 x 1,5	13 – 18	6	41,5	40	27 / 30	1.740.2502.50

Advice: Accessories see page 73

HSK cable glands for special applications

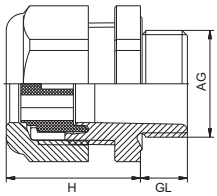
HSK-K-Multi

Metr., PG, NPT

Material	Polyamide V0 according to UL 94
Seal	Elastomer
Protection	IP 65 IP 68 possible with ideal fit, only with optional O-Ring
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)
Colors	grey (RAL 7035), black (RAL 9005)

in black color

Advice:
- With additional pre-assembled O-Ring upon request
- Please find suitable O-Ring on page 88
- Other sealing material e.g. Silicone upon request
- Elongated threads on request
- Installation instruction see page 176



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

Advice: The shown inserts are samples, more inserts upon request

Accessories see page 73

Dimensions and specifications may be changed without prior notice

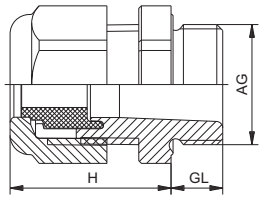
HSK-K-FLAKA

Metr., PG, NPT

in black color

Material	V0 according to UL 94
Seal	Elastomer
Protection	IP 65 IP 68 possible with ideal fit, only with optional O-Ring
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)
Colors	grey (RAL 7035), black (RAL 9005)

Advice:
- With additional pre-assembled O-Ring upon request
- Please find suitable O-Ring on page 88
- Other sealing material e.g. Silicone upon request
- Elongated threads on request
- Installation instruction see page 176



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

Advice: The shown inserts are samples, more inserts upon request

Accessories see page 73

HSK cable glands for special applications

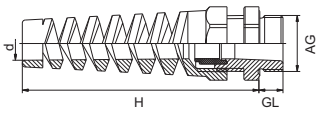
HSK-K-Flex

Metr., Metr.-elongated

Material	Polyamide
Seal	Buna-N
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG) within the specified clamping range, only with optional O-Ring
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)
Colors	grey (RAL 7035), black (RAL 9005)

In black color

Advice:
- With additional pre-assembled O-Ring upon request
- Please find suitable O-Ring on page 88
- Other sealing material e.g. Silicone upon request
- Other colors on request



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

Accessories see page 73

Dimensions and specifications may be changed without prior notice

HSK-K-Flex

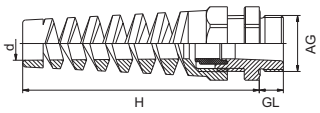
PG, PG-elongated, NPT

RoHS

In black color

Material	Polyamide
Seal	Buna-N
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG) within the specified clamping range, only with optional O-Ring
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)
Colors	grey (RAL 7035), black (RAL 9005)

Advice:
- With additional pre-assembled O-Ring upon request
- Please find suitable O-Ring on page 88
- Other sealing material e.g. Silicone upon request
- Other colors on request



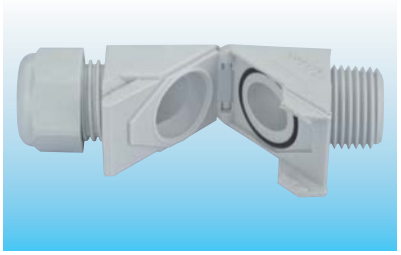
AG	⌀ mm	GL mm	H mm	d mm	mm	Number grey	Number black	GL mm	Number grey elongated	Number black elongated
PG 7*	3–6,5	8	54	7	15	1.293.0700.14	1.293.0701.14	15	1.293.0700.60	1.293.0701.60
PG 7*	2–5	8	54	7	15	1.293.0700.15	1.293.0701.15	15	1.293.0700.61	1.293.0701.61
PG 9*	4–8	8	63	8,5	19	1.293.0900.14	1.293.0901.14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

Accessories see page 73

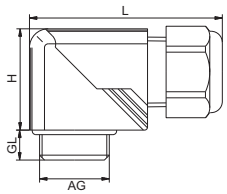
HSK cable glands for special applications

HSK-W — Metr.



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

Material	Polyamide
Seal	Buna-N
Protection	IP 68
O-Ring	Buna-N
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

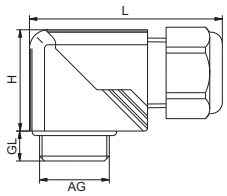
Accessories see page 73

HSK-W — NPT

Advice:
- Glands not fitted with O-Rings.
  We recommend the use of thread washer seal ring (page 89)

Material	Polyamide
Seal	Buna-N
Protection	IP 68
O-Ring	Buna-N
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	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

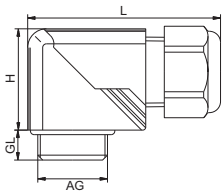
Accessories see page 73

Dimensions and specifications may be changed without prior notice

HSK-W

PG

RoHS



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

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

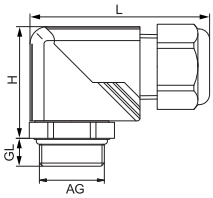
AG	⌀ mm	GL mm	H mm	L mm	R mm	mm	Number grey	Number black
PG 9	4–8	8	23	45	5	19	1.313.0900.14	1.313.0901.14
PG 9	2–6	8	23	45	5	19	1.313.0900.15	1.313.0901.15
PG 11	5–10	8	27	50	6	22	1.313.1100.14	1.313.1101.14
PG 11	3–7	8	27	50	6	22	1.313.1100.15	1.313.1101.15
PG 13,5	6–12	9	30,5	57	7	24	1.313.1300.14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

Accessories see page 73

HSK-W rotating version

PG

RoHS



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

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

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 73

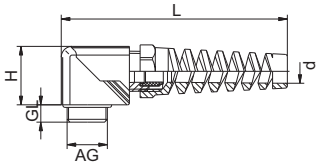
HSK cable glands for special applications

HSK-W-Flex

Metr., PG, NPT

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

Advice:
- 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

* Glands not fitted with O-Rings. We recommend the use of thread washer seal ring.
Please see page 89 for suitable thread seal ring.

Accessories see page 73

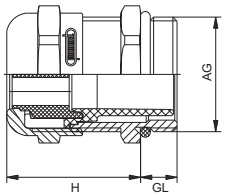
Dimensions and specifications may be changed without prior notice

HSK-M-Multi

Metr., PG, NPT

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

Advice:
- Other sealing material e.g. Silicone upon request
- Stainless steel on request
- Elongated threads on request
- Installation instructions see page 176



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

Advice: The shown inserts are samples, more inserts upon request

Accessories see page 73

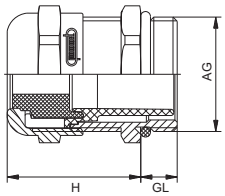
HSK cable glands for special applications

HSK-M-FLAKA

Metr., PG, NPT

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

Advice:
- Other sealing material e.g. Silicone upon request
- Stainless steel on request
- Elongated threads on request
- Installation instructions see page 176



AG	GL mm	H mm	mm	B x H mm	Number	B 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		

Advice: The shown inserts are samples, more inserts upon request

Accessories see page 73

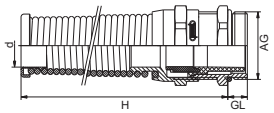
Dimensions and specifications may be changed without prior notice

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) within the specified clamping range
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)

Advice:
- Other sealing material e.g. Silicone upon request



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

Accessories see page 73

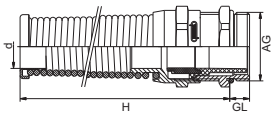
HSK cable glands for special applications

HSK-M-Flex — PG, PG-elongated

Advice:
- Other sealing material e.g. Silicone upon request

Material	Nickel plated brass
Steel spring	INOX 1.4310
Clamping insert	Polyamide
Seal **O-Ring**	Buna-N 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)

RoHS



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

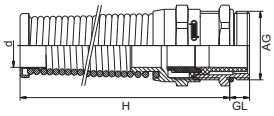
Accessories see page 73

HSK-M-Flex — NPT

Advice:
- Other sealing material e.g. Silicone upon request

Material	Nickel plated brass
Steel spring	INOX 1.4310
Clamping insert	Polyamide
Seal **O-Ring**	Buna-N 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)

RoHS



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 73

Dimensions and specifications may be changed without prior notice

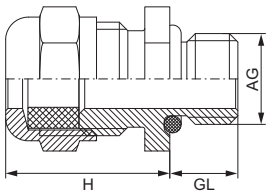
HSK-MINI

Metr., PG

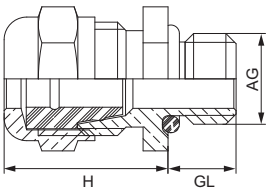
Material	Nickel plated brass / INOX 1.4305
Seal ring	TPE / FPM
O-Ring	Buna-N / FPM
Protection	IP 68
Operating Temperature	-20 °C – 100 °C (-4 °F – 212 °F) (Buna-N / TPE) -25 °C – 200 °C (-13 °F – 392 °F) (FPM)

Advice:
- Other sealing material e.g. Silicone upon request
- Other thread pitches on request
- Stainless steel 1.4404 on request

HSK-Mini



HSK-Mini EMC



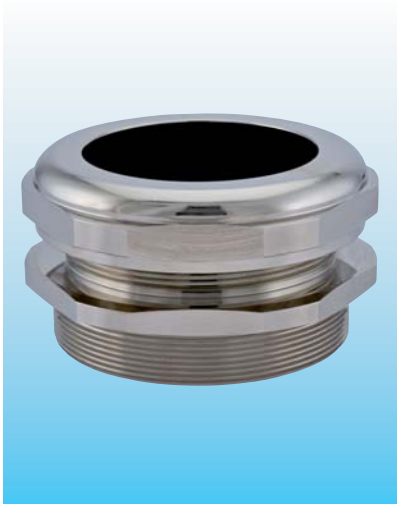
AG	⌀ mm	GL mm	H mm	mm	Number Buna-N / TPE	Number FPM
M 6 x 1	2–3,2	6	10	8	1.106.0601.50	1.106.0600.55
M 8 x 0,75	2–4,5	3,5	14,3	11	1.112.0801.01	
M 8 x 1,25	3–5	6	13	11	1.106.0801.50	1.106.0800.55
M 10 x 1,5	4–6	6	14	12	1.106.1001.50	
PG 7	2–4,5	3,5	14,3	11/15	1.112.0708.01	
HSK-Mini elongated						
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 EMV						
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 73

HSK cable glands for special applications

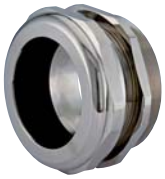
HSK-XL

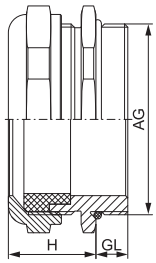
Metr.



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

Advice:
- Other sealing material e.g. Silicone upon request
- Stainless steel on request





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

Accessories see page 73

Dimensions and specifications may be changed without prior notice

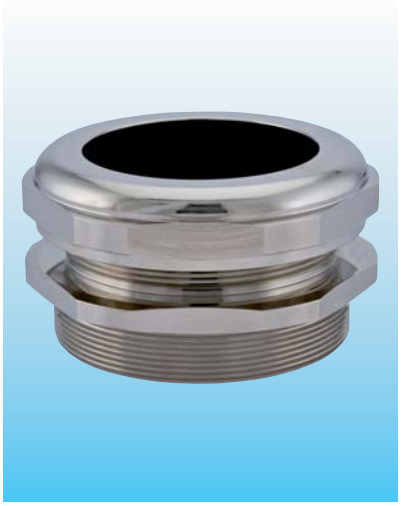
HSK-XL

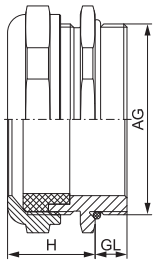
G

RoHS

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

Advice:
- Other sealing material e.g. Silicone upon request
- Stainless steel on request





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 73

HSK cable glands for special applications

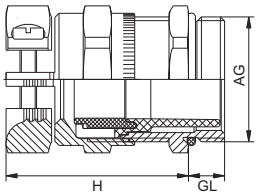
HSK-MZ / HSK-MZ-PVDF

Metr., Metr.-elongated

Material	Nickel plated brass
Clamping insert	Polyamide / PVDF
Seal	Buna-N / FPM
O-Ring	Buna-N / FPM
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)

Advice:
- Other sealing material e.g. Silicone upon request

See our homepage www.hummel.com for assembling advices for maximum cable diameters



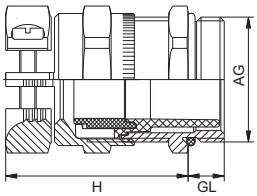
AG	⌀ mm	GL mm	H mm	mm	Number HSK-MZ -40 °C – 100 °C -40 °F – 212 °F	Number HSK-MZ-PVDF -35 °C – 150 °C -31 °F – 302 °F	GL mm	Number HSK-MZ elongated -40 °C – 100 °C -40 °F – 212 °F
M 12 x 1,5	3 – 6,5	6,5	26	14	1.690.1200.50	1.669.1200.50	10	1.690.1200.30
M 16 x 1,5	4 – 8	6	28	17/19	1.690.1600.50	1.669.1600.50	10	1.690.1600.30
M 16 x 1,5	6 – 10	6	30	20	1.690.1611.50	1.669.1611.50	10	1.690.1611.30
M 20 x 1,5	6 – 12	6	33	22	1.690.2000.50	1.669.2000.50	10	1.690.2000.30
M 20 x 1,5	10 – 14	6	33	24	1.690.2016.50	1.669.2016.50	10	1.690.2016.30
M 25 x 1,5	13 – 18	7	37	30	1.690.2500.50	1.669.2500.50	12	1.690.2500.30
M 32 x 1,5	18 – 25	8	43	40	1.690.3200.50	1.669.3200.50	12	1.690.3200.30
M 40 x 1,5	22 – 32	8	50	50	1.690.4000.50	1.669.4000.50	15	1.690.4000.30
M 50 x 1,5	32 – 38	9	51	57	1.690.5000.50		15	1.690.5000.30
M 50 x 1,5	25 – 31	9	51	57	1.690.5000.51		15	1.690.5000.31
M 63 x 1,5	37 – 44	10	52	64/68	1.690.6300.50		15	1.690.6300.30
M 63 x 1,5	29 – 35	10	52	64/68	1.690.6300.51		15	1.690.6300.31

Accessories see page 73

Dimensions and specifications may be changed without prior notice

HSK-MZ / HSK-MZ-PVDF — PG, PG-elongated

RoHS



Material	Nickel plated brass
Clamping insert	Polyamide / PVDF
Seal	Buna-N / FPM
O-Ring	Buna-N / FPM
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)

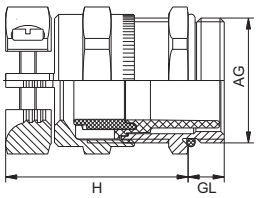
Advice:
- Other sealing material e.g. Silicone upon request

AG	⌀ mm	GL mm	H mm	mm	Number HSK-MZ -40 °C – 100 °C -40 °F – 212 °F	Number HSK-MZ-PVDF -35 °C – 150 °C -31 °F – 302 °F	GL mm	Number elongated
PG 7	3 – 6,5	5	26	14	1.690.0700.01	1.669.0700.01	10	1.690.0700.60
PG 9	4 – 8	6	28	17	1.690.0900.01	1.669.0900.01	10	1.690.0900.60
PG 11	6 – 10	6	30	20	1.690.1100.01	1.669.1100.01	10	1.690.1100.60
PG 13,5	6 – 12	6,5	33	22	1.690.1300.01	1.669.1300.01	10	1.690.1300.60
PG 16	10 – 14	6,5	33	24	1.690.1600.01	1.669.1600.01	10	1.690.1600.60
PG 21	13 – 18	7	37	30	1.690.2100.01	1.669.2100.01	12	1.690.2100.60
PG 29	18 – 25	8	43	40	1.690.2900.01	1.669.2900.01	12	1.690.2900.60
PG 36	22 – 36	8	50	50	1.690.3600.01	1.669.3600.01	15	1.690.3600.60
PG 42	32 – 38	9	51	57	1.690.4200.01	1.669.4200.01	15	1.690.4200.60
PG 42	25 – 31	9	51	57	1.690.4200.15	1.669.4200.15	15	1.690.4200.61
PG 48	37 – 44	10	52	64	1.690.4800.01	1.669.4800.01	15	1.690.4800.60
PG 48	29 – 35	10	51	64	1.690.4800.15	1.669.4800.15	15	1.690.4800.61

Accessories see page 73

HSK-MZ / HSK-MZ-PVDF — NPT

RoHS



Material	Nickel plated brass
Clamping insert	Polyamide / PVDF
Seal	Buna-N / FPM
O-Ring	Buna-N / FPM
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)

Advice:
- Other sealing material e.g. Silicone upon request

AG	⌀ mm	GL mm	H mm	mm	Number HSK-MZ -40 °C – 100 °C -40 °F – 212 °F	Number HSK-MZ-PVDF -35 °C – 150 °C -31 °F – 302 °F
NPT 3/8"	4 – 8	15	28	17/19	1.690.3800.70	1.669.3800.70
NPT 1/2"	7 – 12	13	33	22/24	1.690.1200.70	1.669.1200.70
NPT 3/4"	13 – 18	13	37	30	1.690.3400.70	1.669.3400.70
NPT 1"	18 – 25	19	43	40	1.690.1000.70	

Accessories see page 73

HSK cable glands for special applications

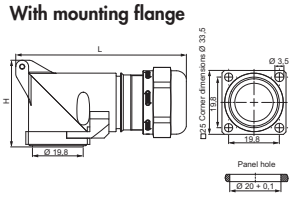
HSK-M-W

Metr., PG

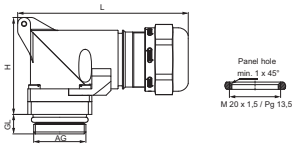
Material	Zinc die casting / Nickel plated brass
Clamping insert	Polyamide
Seal ring	Buna-N
O-Ring	Buna-N
Protection	IP 68
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)

Advice:
- 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							
M20 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
M40 x 1,5	upon request						
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 73

Dimensions and specifications may be changed without prior notice

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
- made of polyamide with bending protection
- made of nickel plated brass
- made of nickel plated brass in EMC and EMC-E version.

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.

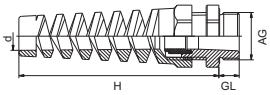
Contact us:
E-Mail: info.et@hummel.com
Tel.: +49 (0) 76 66 / 91 110-0

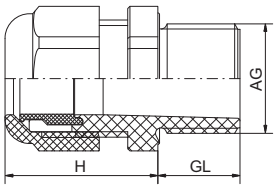
METRICA-P, METRICA-P-Flex

Metr.

Material	Polyamide
Seal	Buna-N
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG) within the specified clamping range, only with optional 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"

Advice:
- With additional pre-assembled O-Ring upon request
- Please find suitable O-Ring on page 88
- Other sealing material e.g. Silicone upon request
- 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 73

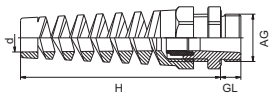
Dimensions and specifications may be changed without prior notice

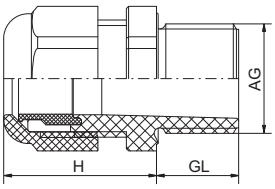
METRICA-P, METRICA-P-Flex

Metr.-elongated

Material	Polyamide
Seal	Buna-N
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG) within the specified clamping range, only with optional 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"

Advice:
- With additional pre-assembled O-Ring upon request
- Please find suitable O-Ring on page 88
- Other sealing material e.g. Silicone upon request
- 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 73

METRICA cable glands

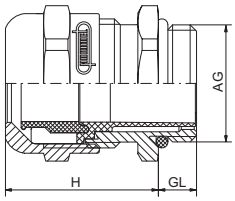
METRICA-M

Metr., Metr.-elongated

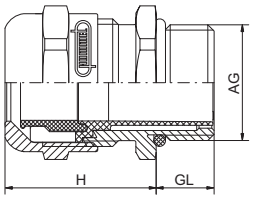
Material	Nickel plated brass
Clamping insert	Polyamide
Seal	Buna-N
O-Ring	Buna-N
Protection	IP 68 – 10 bar (NEMA 6 – 150 PSIG) within the specified clamping range
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)

Advice:
- Other sealing material e.g. Silicone upon request

Metr.



Metr.-elongated



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

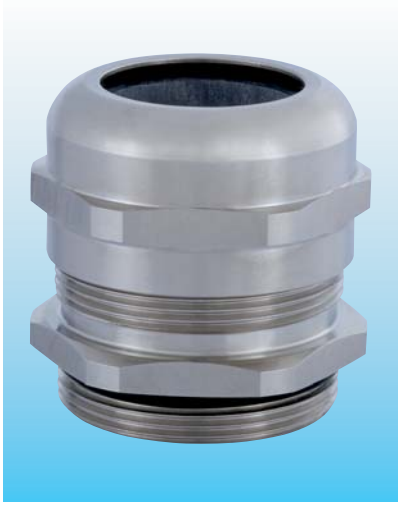
Accessories see page 73

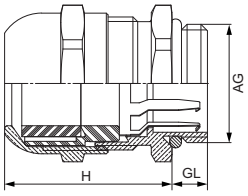
Dimensions and specifications may be changed without prior notice

METRICA-M-EMV-E

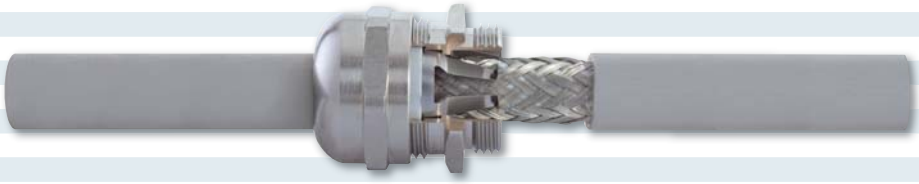
Metr.

Material	Nickel plated brass
Clamping insert	Polyamide
Seal	Buna-N
O-Ring	Buna-N
Protection	IP 68 – 10 bar (NEMA 6 – 150 PSIG) within the specified clamping range
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 73

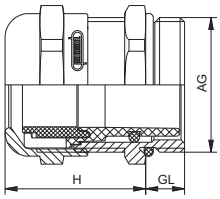
METRICA cable glands

METRICA-M-EMV

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) within the specified clamping range
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)

Advice:
- Other sealing material e.g. Silicone upon request



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

Accessories see page 73

Dimensions and specifications may be changed without prior notice

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
- WADI cable glands with various clamping and temperature ranges
- DIN 46320 cable glands made of plastic or nickel plated brass
- Z cable glands made of nickel plated brass. These glands meet the DIN 46320 standard made from nickel plated brass but with additional strain relief
- SE cable glands made of nickel plated brass. These glands meet the DIN 46320 standard and are made of nickel plated brass with additional EMC attenuation
- ZSE cable glands made of nickel plated brass. These glands meet the "Z standard" but with additional EMC attenuation

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.

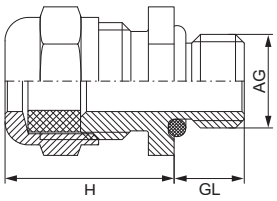
Contact us:
E-Mail: info.et@hummel.com
Tel.: +49 (0) 76 66 / 91 110-0

Miscellaneous cable glands

WADI-A

Metr.

Material	Nickel plated brass
Seal ring	Buna-N
O-Ring	Buna-N
Protection	IP 68 (NEMA 6)
Operating Temperature	-20 °C – 100 °C (-4 °F – 212 °F) short time exposure 130 °C (266 °F)



AG	⌀ mm	GL mm	H mm	mm	Number
M 12 x 1,5	4–6	5	16	14	1.106.1201.50
M 16 x 1,5	4–9	5	18	18	1.106.1601.50
M 20 x 1,5	7–13	6	22	22	1.106.2001.50
M 25 x 1,5	10–18	7	23	28	1.106.2501.50
M 32 x 1,5	20–24	8	26	35	1.106.3201.50
M 40 x 1,5	27–32	8	27	45	1.106.4001.50
M 50 x 1,5	35–40	10	28	55	1.106.5001.50
M 63 x 1,5	45–52	10	36	68	1.106.6301.50

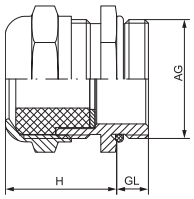
Accessories see page 73

Dimensions and specifications may be changed without prior notice

WADI-A

PG

RoHS



Material	Nickel plated brass
Seal ring	Buna-N
O-Ring	Buna-N
Protection	IP 68 (NEMA 6)
Operating Temperature	-20 °C – 100 °C (-4 °F – 212 °F) short time exposure 130 °C (266 °F)

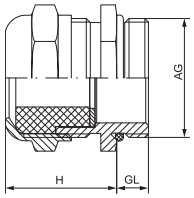
AG	⌀ mm	GL mm	H mm	mm	Number	⌀ mm	Number	⌀ mm	Number
PG 7	2 – 3	6	16	14	1.106.0701.01	4 – 6,5	1.106.0700.01	6,5 – 8	1.106.0702.01
PG 9	4 – 5	6	17	18	1.106.0904.01	5 – 7	1.106.0900.01	7 – 10	1.106.0902.01
PG 11	5 – 7	6	20	18	1.106.1101.01	7 – 10	1.106.1103.01	8 – 12	1.106.1100.01
PG 13,5	7 – 10	6	21	24	1.106.1303.01	9 – 12	1.106.1300.01	11 – 15	1.106.1304.01
PG 16	7 – 10	6	21	24	1.106.1603.01	9 – 12	1.106.1600.01	11 – 15	1.106.1604.01
PG 21	14 – 17	7,5	22,5	32	1.106.2102.01	16 – 20,5	1.106.2103.01	19 – 22	1.106.2101.01
PG 29	19 – 22,5	8	24	40	1.106.2901.01	20 – 27	1.106.2902.01		
PG 29	22 – 28	8	24	40	1.106.2903.01	26 – 32	1.106.2904.01		

Accessories see page 73

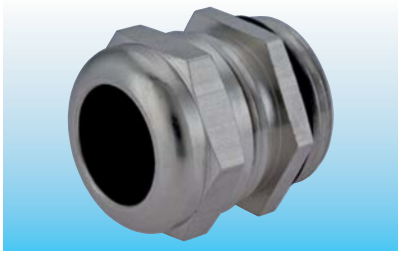
WADI-A two piece sealing insert

PG

RoHS



Material	Nickel plated brass
Seal ring	Buna-N (multiperforated)
O-Ring	Buna-N
Protection	IP 68 (NEMA 6)
Operating Temperature	-20 °C – 100 °C (-4 °F – 212 °F) short time exposure 130 °C (266 °F)



AG	⌀ mm	GL mm	H mm	mm	Number
PG 11	5 – 12	6	18	20	1.106.1104.01
PG 13,5	8 – 15	6	21	24	1.106.1301.01
PG 16	8 – 15	6	21	24	1.106.1601.01
PG 21	11 – 20,5	7,5	22,5	32	1.106.2100.01
PG 29	18 – 27	8	24	40	1.106.2900.01
PG 36	25 – 35	8	29	50	1.106.3600.01
PG 42	35 – 45	10	31	60	1.106.4200.01
PG 48	38 – 49	11	33	64	1.106.4800.01

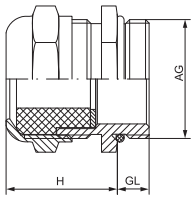
Accessories see page 73

Miscellaneous cable glands

WADI-A-FPM

Metr.

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



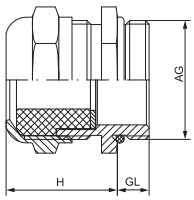
AG	⌀ mm	GL mm	H mm	mm	Number
M 12 x 1,5	4–6	5	18	14	1.106.1200.58
M 16 x 1,5	7–9	5	19	18	1.106.1600.58
M 20 x 1,5	10–13	6	21	22	1.106.2000.58
M 25 x 1,5	15–18	7	23	28	1.106.2500.58
M 32 x 1,5	20–24	8	26	35	1.106.3200.58
M 40 x 1,5	27–32	8	27	45	1.106.4000.58
M 50 x 1,5	35–40	10	28	55	1.106.5000.58
M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

Accessories see page 73

WADI-A-FPM two piece sealing insert

Metr.

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



AG	⌀ mm	GL mm	H mm	mm	Number
M 16 x 1,5	4 – 9	5	19	18	1.106.1601.58
M 20 x 1,5	7 – 13	6	21	22	1.106.2001.58
M 25 x 1,5	10 – 18	7	23	28	1.106.2501.58
M 32 x 1,5	16 – 24	8	26	35	1.106.3201.58
M 40 x 1,5	22 – 32	8	27	45	1.106.4001.58
M 50 x 1,5	30 – 40	10	28	55	1.106.5001.58
M 63 x 1,5	38 – 52	10	36	68	1.106.6301.58

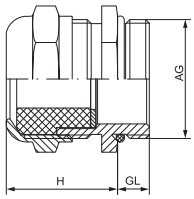
Accessories see page 73

Dimensions and specifications may be changed without prior notice

WADI-A-FPM

PG

RoHS



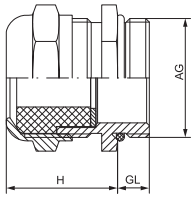
Material	Nickel plated brass
Seal ring	FPM
O-Ring	FPM
Protection	IP 68 (NEMA 6)
Operating Temperature	-25 °C – 200 °C (-13 °F – 392 °F)

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
PG 42	40–45	10	31	60	1.106.4200.80
PG 48	42–49	11	33	64	1.106.4800.80

WADI-A-FPM two piece sealing insert

PG

RoHS



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

AG	⌀ mm	GL mm	H mm	mm	Number
PG 11	5–12	6	20	18	1.106.1103.80
PG 13,5	8–15	6	21	24	1.106.1301.80
PG 16	8–15	6	21	24	1.106.1601.80
PG 21	11–20,5	7,5	22,5	32	1.106.2101.80
PG 29	18–27	8	24	40	1.106.2901.80
PG 36	25–35	8	29	50	1.106.3601.80
PG 42	35–45	10	30	60	1.106.4201.80
PG 48	38–49	11	33	64	1.106.4801.80

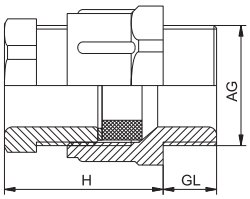
Accessories see page 73

Miscellaneous cable glands

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

Advice:
- Metric thread on request
- Please see page 89 for suitable thread seal ring

Material	Styrene Butadiene / Polyamide
Seal ring	Soft rubber / Buna-N
Protection	IP 54, with thread seal ring IP 65
Operating Temperature<	-20 °C – 60 °C (-4 °F – 140 °F) (Soft rubber) -20 °C – 80 °C (-4 °F – 176 °F) (Buna-N)
Colors	grey (RAL 7035)



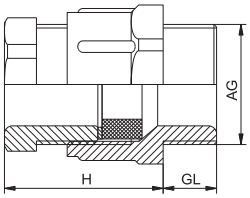
AG	⌀ mm	GL mm	H mm	mm	Number SB / Soft rubber -20 °C – 60 °C -4 °F – 140 °F	Number PA / Buna-N -20 °C – 80 °C -4 °F – 176 °F
PG 7	3,5–6	8	20	15 / 13	1.201.0700.10	1.202.0700.11
PG 9	4,5–7	8	21	19/16	1.201.0900.10	1.202.0900.11
PG 11	6–9	8	22	22/19	1.201.1100.10	1.202.1100.11
PG 13,5	9–12	9	26	24/21	1.201.1300.10	1.202.1300.11
PG 16	11–14	10	28	27/23	1.201.1600.10	1.202.1600.11
PG 21	14–18	11	32	33/30	1.201.2100.10	1.202.2100.11
PG 29	18–25	11	35	42/40	1.201.2900.10	1.202.2900.11
PG 36	25–32	13	39	53/50	1.201.3600.10	1.202.3600.11
PG 42	30–38	13	44	60/55	1.201.4200.10	1.202.4200.11
PG 48	34–42	14	44	65/60	1.201.4800.10	1.202.4800.11

Accessories see page 73

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

Advice:
- Metric thread on request
- Please see page 89 for suitable thread seal ring

Material	Styrene Butadiene / Polyamide
Seal ring	Soft rubber / Buna-N (multiperforated)
Protection	IP 54, with thread seal ring IP 65
Operating Temperature	-20 °C – 60 °C (-4 °F – 140 °F) (Soft rubber) -20 °C – 80 °C (-4 °F – 176 °F) (Buna-N)
Colors	grey (RAL 7035)



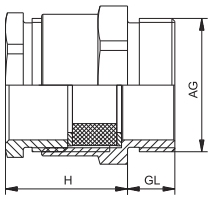
AG	⌀ mm	GL mm	H mm	mm	Number SB / Soft rubber -20 °C – 60 °C -4 °F – 140 °F	Number PA / Buna-N -20 °C – 80 °C -4 °F – 176 °F
PG 9	4–10	8	21	19/16	1.201.0902.10	1.202.0901.11
PG 11	6,5–12	8	22	22/19	1.201.1102.10	1.202.1101.11
PG 13,5	6,5–13,5	9	26	24/21	1.201.1302.10	1.202.1301.11
PG 16	6,5–16	10	28	27/23	1.201.1602.10	1.202.1601.11
PG 21	9–20	11	32	33/30	1.201.2102.10	1.202.2101.11
PG 29	17–28	11	35	42/40	1.201.2902.10	1.202.2901.11
PG 36	23–34	13	39	53/50	1.201.3602.10	1.202.3601.11
PG 42	29–40	13	44	60/55	1.201.4202.10	1.202.4201.11
PG 48	35–46	14	44	65/60	1.201.4802.10	1.202.4801.11

Accessories see page 73

Dimensions and specifications may be changed without prior notice

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

RoHS



Material	Nickel plated brass
Seal ring	Soft rubber / Buna-N
Protection	IP 54, with thread seal ring IP 65
Operating Temperature	-20 °C – 60 °C (-4 °F – 140 °F) (Soft rubber) -20 °C – 80 °C (-4 °F – 176 °F) (Buna-N)

Advice:
- Metric thread on request
- Please see page 89 for suitable thread seal ring

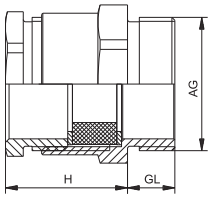
- This cable gland is available with additional strain relief (see page 71) and EMC attenuation (see page 72)

AG	⌀ mm	GL mm	H mm	mm	Number Soft rubber -20 °C – 60 °C -4 °F – 140 °F	Number Buna-N -20 °C – 80 °C -4 °F – 176 °F
PG 7	6–8	5	15	14/13	1.101.0700.01	1.101.0703.01
PG 9	8–10	6	15	17/15	1.101.0900.01	1.101.0903.01
PG 11	10–12	6	17	20/18	1.101.1100.01	1.101.1103.01
PG 13,5	12–14	6,5	20	22/20	1.101.1300.01	1.101.1303.01
PG 16	14–16	6,5	22	24/22	1.101.1600.01	1.101.1603.01
PG 21	17–19	7	24	30/28	1.101.2100.01	1.101.2103.01
PG 29	26–28	8	26	40/37	1.101.2900.01	1.101.2903.01
PG 36	33–35	9	30	50/47	1.101.3600.01	1.101.3603.01
PG 42	39–41	10	34	57/54	1.101.4200.01	1.101.4203.01
PG 48	45–47	10	37	64/60	1.101.4800.01	1.101.4803.01

Accessories see page 73

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

RoHS



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)

Advice:
- Metric thread on request
- Please see page 89 for suitable thread seal ring

- This cable gland is available with additional strain relief (see page 71) and EMC attenuation (see page 72)

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

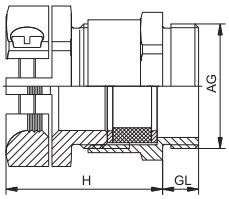
Accessories see page 73

Miscellaneous cable glands

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

Material	Nickel plated brass
Seal ring	Soft rubber / Buna-N
Protection	IP 54, with thread seal ring IP 65
Operating Temperature	-20 °C – 60 °C (-4 °F – 140 °F) (Soft rubber) -20 °C – 80 °C (-4 °F – 176 °F) (Buna-N)

Advice:
- Please see page 89 for suitable thread seal ring



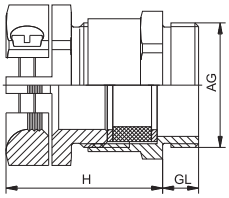
AG	⌀ mm	GL mm	H mm	mm	Number Soft rubber -20 °C – 60 °C -4 °F – 160 °F	Number Buna-N -20 °C – 80 °C -4 °F – 176 °F
M 12 x 1,5	6–8	5	22	14/16	1.105.1200.50	1.105.1200.51
M 16 x 1,5	8–10	5	25	18/19	1.105.1600.50	1.105.1600.51
M 20 x 1,5	10–12	6	26	22/22	1.105.2000.50	1.105.2000.51
M 20 x 1,5	12–14	6	27,5	22/24	1.105.2013.50	1.105.2013.51
M 20 x 1,5	13–15	6	28,5	24/26	1.105.2016.50	1.105.2016.51
M 25 x 1,5	17–19	6	33	30/33	1.105.2500.50	1.105.2500.51
M 32 x 1,5	26–27	6	36	39/42	1.105.3200.50	1.105.3200.51
M 40 x 1,5	33–35	7	41	50/52	1.105.4000.50	1.105.4000.51
M 50 x 1,5	39–41	8	45	57/59	1.105.5000.50	1.105.5000.51
M 63 x 1,5	43–45	9	48	66/64	1.105.6300.50	1.105.6300.51

Accessories see page 73

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

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)

Advice:
- Please see page 89 for suitable thread seal ring



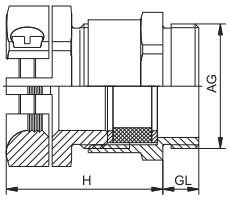
AG	⌀ mm	GL mm	H mm	mm	Number
M 16 x 1,5	6,5–10	5	25	18/19	1.105.1600.52
M 20 x 1,5	7,5–12	6	26	22/22	1.105.2000.52
M 20 x 1,5	8,5–13,5	6	27,5	22/24	1.105.2013.52
M 20 x 1,5	10,5–15	6	28,5	24/26	1.105.2016.52
M 25 x 1,5	13–20	6	33	30/33	1.105.2500.52
M 32 x 1,5	19–28	6	36	39/42	1.105.3200.52
M 40 x 1,5	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 73

Dimensions and specifications may be changed without prior notice

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

RoHS



Material	Nickel plated brass
Seal ring	Soft rubber / Buna-N
Protection	IP 54, with thread seal ring IP 65
Operating Temperature	-20 °C – 60 °C (-4 °F – 140 °F) (Soft rubber) -20 °C – 80 °C (-4 °F – 176 °F) (Buna-N)

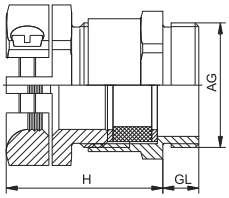
Advice:
- Please see page 89 for suitable thread seal ring
- Please see page 72 for the EMC version of this gland

AG	⌀ mm	GL mm	H mm	mm	Number Soft rubber -20 °C – 60 °C -4 °F – 140 °F	Number Buna-N -20 °C – 80 °C -4 °F – 176 °F
PG 7	6 – 8	5	22	14 / 16	1.105.0700.01	1.105.0703.01
PG 9	8 – 10	6	25	17 / 19	1.105.0900.01	1.105.0903.01
PG 11	10 – 12	6	26	20 / 22	1.105.1100.01	1.105.1103.01
PG 13,5	12 – 14	6,5	27,5	22 / 24	1.105.1300.01	1.105.1303.01
PG 16	14 – 16	6,5	28,5	24 / 26	1.105.1600.01	1.105.1603.01
PG 21	17 – 19	7	33	30 / 33	1.105.2100.01	1.105.2103.01
PG 29	26 – 28	8	36	40 / 42	1.105.2900.01	1.105.2903.01
PG 36	33 – 35	9	41	50 / 52	1.105.3600.01	1.105.3603.01
PG 42	39 – 41	10	45	57 / 59	1.105.4200.01	1.105.4203.01
PG 48	43 – 45	10	48	64 / 64	1.105.4800.01	1.105.4803.01

Accessories see page 73

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

RoHS



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)

Advice:
- Please see page 89 for suitable thread seal ring
- Please see page 72 for the EMC version of this gland

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 73

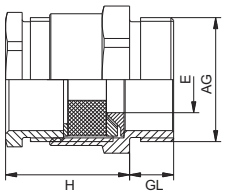
Miscellaneous cable glands

SE (DIN 46320-C4-Ms with EMC attenuation) 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

Advice:
- Please see page 89 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

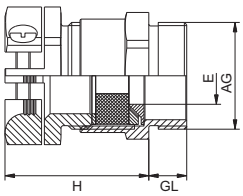
Accessories see page 73

ZSE (DIN 46320-C4-Ms with EMC attenuation 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

Advice:
- Please see page 89 for suitable thread seal ring



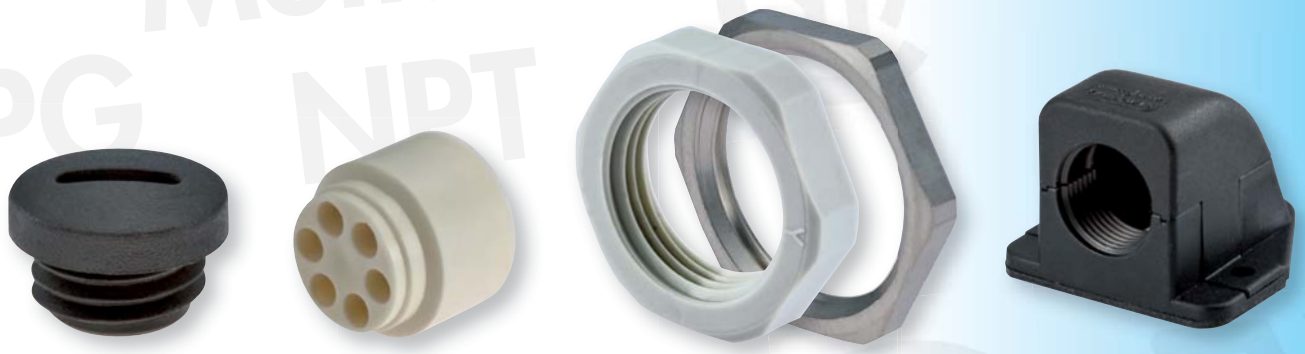
AG	⌀ mm	GL mm	H mm	mm	E mm	Number
PG 9	6,5 – 10	7	27	17 / 19	6	1.681.0906.01
PG 11	7,5 – 12	7	29	20 / 22	7	1.681.1107.01
PG 11	7,5 – 12	7	29	20 / 22	8	1.681.1108.01
PG 13,5	8,5 – 13,5	8	30	22 / 24	10	1.681.1310.01
PG 13,5	8,5 – 13,5	8	30	22 / 24	12	1.681.1312.01
PG 16	10,5 – 16	8	31	24 / 26	12	1.681.1612.01
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 73

Dimensions and specifications may be changed without prior notice

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 74
- Accessories made of nickel plated brass from page 90
- Accessories made of stainless steel from page 99

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.

Contact us:
E-Mail: info.et@hummel.com
Tel.: +49 (0) 76 66 / 91 110-0

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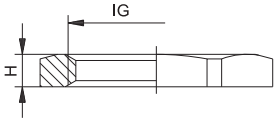
GM-FS

Metr., PG, NPT

Material	Polyamide V0 according to UL 94
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)
Colors	grey (RAL 7035), black (RAL 9005)

Advice:
- Other colors upon request

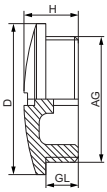


IG	H mm	mm	Number PA V0 grey	Number PA V0 black
M 12 x 1,5	5	17	1.262.1200.50	1.262.1201.50
M 16 x 1,5	5	22	1.262.1600.50	1.262.1601.50
M 20 x 1,5	6	27	1.262.2000.50	1.262.2001.50
M 25 x 1,5	6,5	32	1.262.2500.50	1.262.2501.50
M 32 x 1,5	7	41	1.262.3200.50	1.262.3201.50
M 40 x 1,5	7	50	1.262.4000.50	1.262.4001.50
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

Dimensions and specifications may be changed without prior notice

V-N-FS — Metr.

RoHS



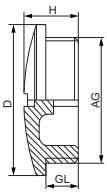
Material	Polyamide
Protection	IP 54
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)
Colors	grey (RAL 7035), black (RAL 9005)

Advice:
- Other colors upon request

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

V-N-FS — PG

RoHS



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

Advice:
- Other colors upon request

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

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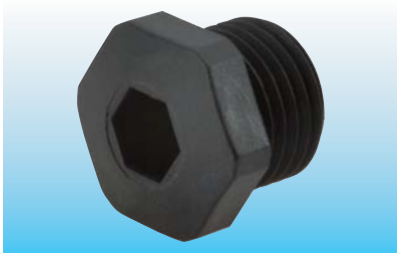
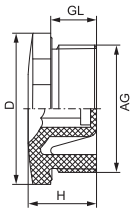
V-NE / V-NE-SD — Metr.



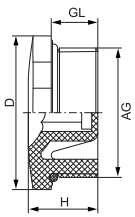
Advice:
- Other colors upon request
- Please find more O-Rings on page 88

Material	Polyamide, 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

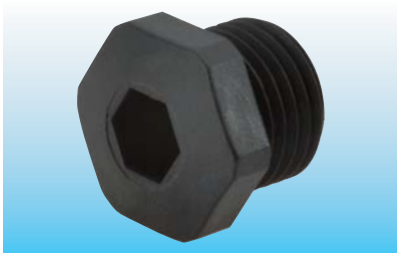


V-NE-SD



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

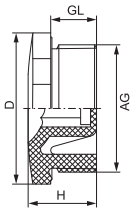
V-NE / V-NE-SD — PG



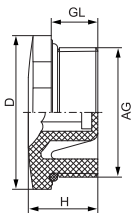
Advice:
- Other colors upon request
- Please find more O-Rings on page 88

Material	Polyamide, 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

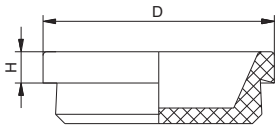
Dimensions and specifications may be changed without prior notice

DS

Metr.

RoHS

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



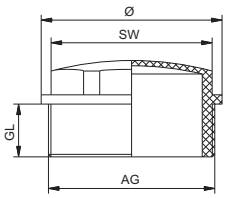
Ø mm	D mm	H mm	Number
12	17	5	1.250.1201.50
16	20	5	1.250.1601.50
20	25	5	1.250.2001.50
25	30	5	1.250.2501.50
32	37	5	1.250.3201.50
40	45	5	1.250.4001.50
50	56	5	1.250.5001.50
63	70	5	1.250.6301.50

WN

Metr.

RoHS

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



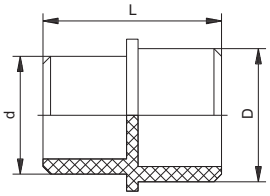
AG	GL mm	Ø mm	mm	Number
M 16 x 1,5	9	19,8	15	1.282.1600.50
M 20 x 1,5	12	24	19	1.282.2000.50
M 25 x 1,5	12	29,5	24	1.282.2500.50
M 32 x 1,5	14	37,5	30	1.282.3200.50
M 40 x 1,5	14	45,8	37	1.282.4000.50
M 50 x 1,5	18	55,8	46	1.282.5000.50
M 63 x 1,5	20	68,8	56	1.282.6300.50

HSK-V

Metr., PG, NPT

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

RoHS



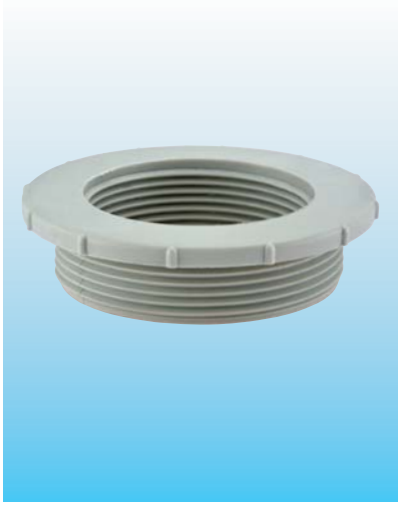
Fits the following sizes			D mm	d mm	L mm	Number
PG 7	M 12 x 1,5		6	4,5	15	1.280.0007.00
PG 9	M 16 x 1,5	NPT 3/8"	7,5	5,5	17	1.280.0009.00
PG 11	M 16 x 1,5 / 11		9,5	6,5	19	1.280.0011.00
PG 13,5	M 20 x 1,5	NPT 1/2"	11,5	8,5	19	1.280.0013.00
PG 16	M 20 x 1,5 / 16	NPT 1/2" (16)	13,5	11,5	19,5	1.280.0016.00
PG 21	M 25 x 1,5	NPT 3/4"	17,5	15,5	23,5	1.280.0021.00
PG 29	M 32 x 1,5	NPT 1" NPT 1 1/4"	24	19	26	1.280.0029.00
PG 36	M 40 x 1,5	NPT 1 1/2"	31	25	28	1.280.0036.00
PG 42	M 50 x 1,5		37	30	28	1.280.0042.00
PG 48	M 63 x 1,5		43	34	28	1.280.0048.00

Dimensions and specifications may be changed without prior notice

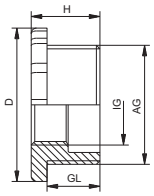
R-FS

Metr., PG

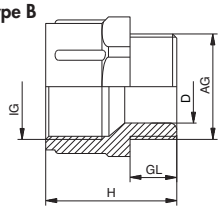
Material	Styrene Butadiene / Polyamide
Operating Temperature	-20 °C – 70 °C (-4 °F – 156 °F)(Styrene Butadiene) -40 °C – 80 °C (-40 °F – 176 °F)(Polyamide)
Colors	grey (RAL 7035)



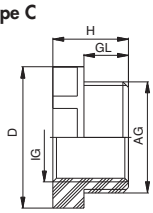
Type A



Type B



Type C



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

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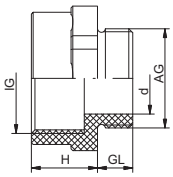
R-M-PA

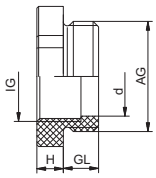
Metr., PG

Material	Polyamide (Type A / Type B), Polypropylene (Type C)
Operating Temperature	-20 °C – 80 °C (-4 °F – 176 °F)
Colors	black (RAL 9005)

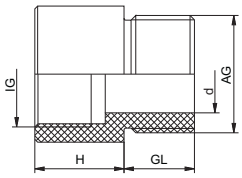
Type A



Type B



Type C



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

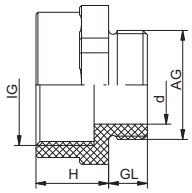
Dimensions and specifications may be changed without prior notice

E-M-PA, K-FS

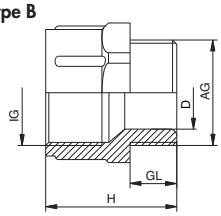
Metr., PG

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)

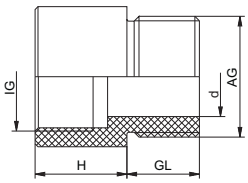
Type A



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

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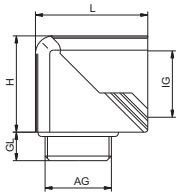
90° Snap Elbow

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)

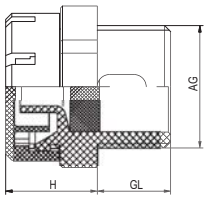


AG	IG	GL mm	H mm	L mm	R mm	mm	Number grey	Number black
M 16x1,5	M 16x1,5	8	23	28,5	5	19	1.316.1600.50	1.316.1601.50
M 20x1,5	M 20x1,5	9	30,5	35	7	24	1.316.2000.50	1.316.2001.50
M 25x1,5	M 25x1,5	11	40	49	10	33	1.316.2500.50	1.316.2501.50
PG 9	M 16x1,5	8	23	28,5	5	19	1.316.0900.11	1.316.0901.11
PG 13,5	M 20x1,5	9	30,5	35	7	24	1.316.1300.11	1.316.1301.11
PG 21	M 25x1,5	11	40	49	10	33	1.316.2100.11	1.316.2101.11
M 16x1,5	PG 9	8	23	28,5	5	19	1.315.1600.50	1.315.1601.50
M 20x1,5	PG 13,5	9	30,5	35	7	24	1.315.2000.50	1.315.2001.50
M 25x1,5	PG 21	11	40	49	10	33	1.315.2500.50	1.315.2501.50
M 32x1,5	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

Dimensions and specifications may be changed without prior notice

KS

Metr.

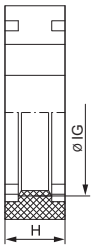


Material	Polyamide
Protection	IP 54
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)
Colors	grey (RAL 7035), black (RAL 9005)

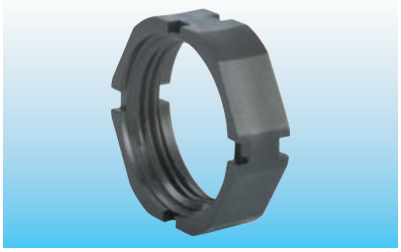
AG	GL mm	H mm	mm	Number grey	Number black
M 25 x 1,5	15	21,5	30	1.213.2500.50	1.213.2501.50

GM-KS

Metr.



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



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

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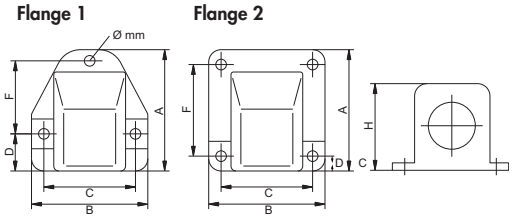
KF-G

Metr., PG

Material	Polyamide
Dichtung	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 16x1,5	1	4,3	49	47	37	15,5	29	35	1.312.1600.50	1.312.1601.50
M 20x1,5	1	4,5	49	47	37	15,5	29	35	1.312.2000.50	1.312.2001.50
M 25x1,5	1	6,0	69	65	51,5	21,5	41,5	44	1.312.2500.50	1.312.2501.50
M 32x1,5	2	6,5	90	78	64,5	9,5	64,5	55	1.312.3200.50	1.312.3201.50
M 40x1,5	2	6,5	99	94	79,5	10,5	79,5	66	1.312.4000.50	1.312.4001.50
M 50x1,5	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

Dimensions and specifications may be changed without prior notice

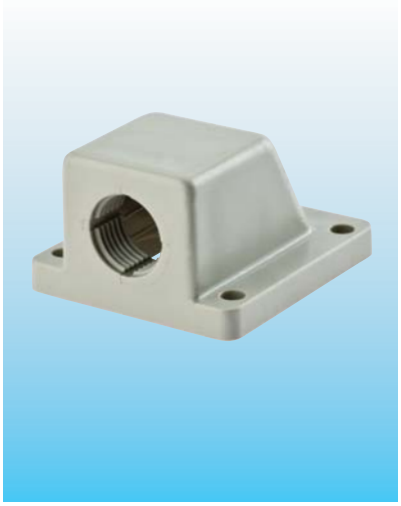
FW-T

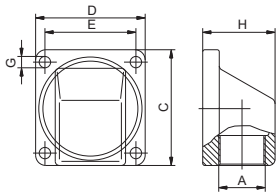
PG

RoHS

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

Advice:
- Metric threads with O-Ring thread seal available

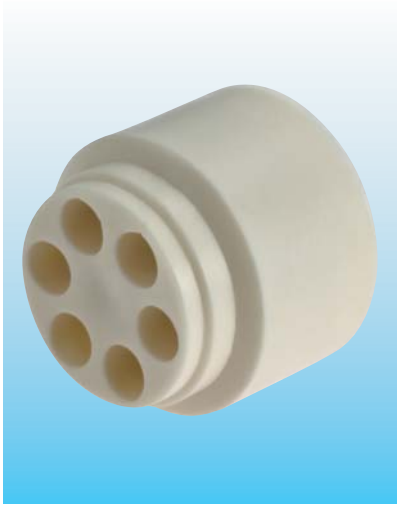




A	C mm	D mm	E mm	G mm	H mm	Number
PG 9	50	45	37	4,3	29	1.306.0900.14
PG 11	50	45	37	4,3	29	1.306.1100.14
PG 13,5	56	53	44	5,5	35	1.306.1300.14
PG 16	56	53	44	5,5	35	1.306.1600.14
PG 21	68	68	55,5	5,5	43	1.306.2100.14
PG 29	74	70	60	5,5	52	1.306.2900.14
PG 36	93	88	72	6,5	68	1.306.3600.14

HSK-ME

Metr., PG, NPT

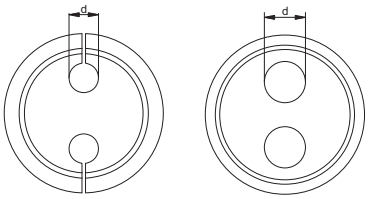


Material	Elastomer
Operating Temperature	-40°C – 100°C (-40°F – 212°F)

Advice:
- Installation instruction see page 176
- Other materials available 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
PG 7/KR PG 9			1,5*	1.089.0712.19			1.089.0799.19
PG 9/KE PG 7/KR PG 11	M 16 x 1,5	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	
PG 11/KE PG 9/KR PG 13,5	M 16 x 1,5/16		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	
PG 13,5/KE PG 11/KR PG 16	M 20 x 1,5	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	
PG 16/KE PG 13,5/KR PG 21	M 16 x 1,5/16	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	
PG 21/KE PG 16	M 25 x 1,5	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	
PG 29	M 32 x 1,5	NPT 1"/11/4"	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			
PG 36	M 40 x 1,5	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	
PG 42	M 50 x 1,5						1.089.4299.19
PG 48	M 63 x 1,5		8 x 10	1.089.4800.19	6 x 12	1.089.4801.19	1.089.4899.19

* Slit version to accommodate terminated cable

Advice: The shown inserts are samples, more inserts upon request

Dimensions and specifications may be changed without prior notice

HSK-FLAKA

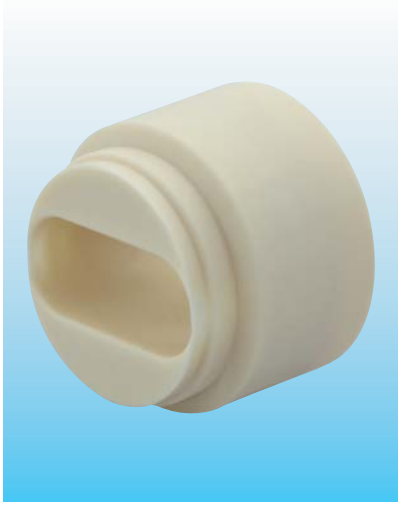
Metr., PG, NPT

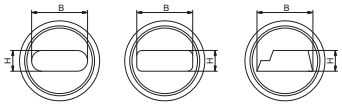
RoHS

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

Advice:
- Installation instruction see page 176
- Other materials available 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
PG 13 (ASI-BUS)	M 20 x 1,5	NPT 1/2"	10,4 x 4,2	1.091.1300.19		
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
PG 16/KE PG 13,5 / KR PG 21		NPT 1/2" (16)	12 x 7	1.091.1602.19		
PG 21/KE PG 16	M 25 x 1,5	NPT 3/4"	14 x 6	1.091.2100.19	14 x 7	1.091.2101.19
PG 29	M 32 x 1,5	NPT 1"/1 1/4"	22 x 8	1.091.2900.19		
PG 36	M 40 x 1,5	NPT 1 1/2"	28,5 x 10	1.091.3600.19	29 x 5,5	1.091.3601.19
PG 42	M 50 x 1,5		33,5 x 11,5	1.091.4200.19		
PG 48	M 63 x 1,5		38 x 12	1.091.4800.19		

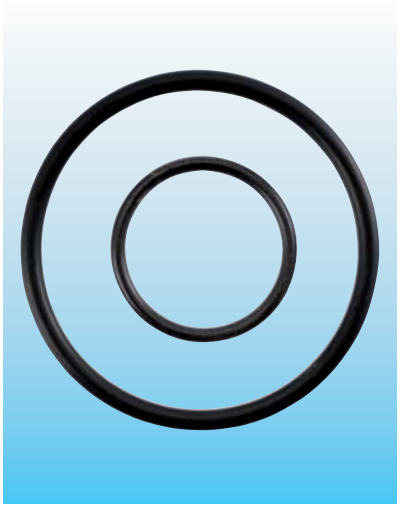
Advice: The shown inserts are samples, more inserts upon request

www.hummel.com

O-Ring

Metr., PG, NPT

RoHS



O-Ring Buna-N

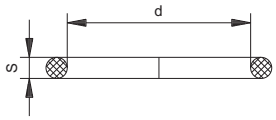
Material	Buna-N
Operating Temperature	-30 °C – 120 °C (-22 °F – 248 °F)

O-Ring FPM

Material	FPM
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 FPM	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

Dimensions and specifications may be changed without prior notice

Thread Seal Ring — Metr.

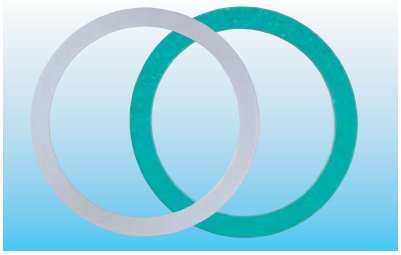
RoHS

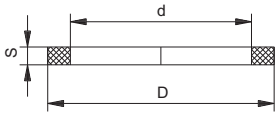
Thread Seal Ring PE

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)





Advice:
- GFK thread seal see page 109

Size	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	48	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

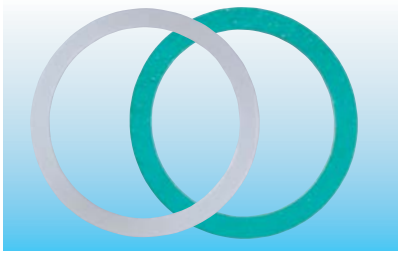
RoHS

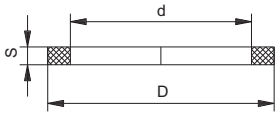
Thread Seal Ring PE

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)

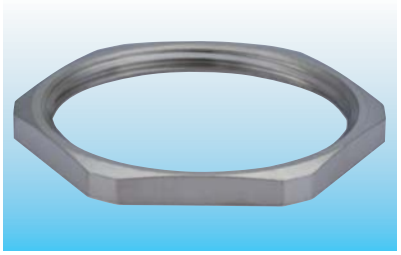




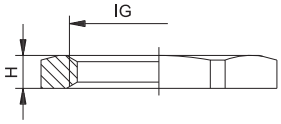
Size	d mm	D mm	S Polyethylene mm	S Fiber-reinforced plastic mm	Number Polyethylene	Number Fiber-reinforced plastic
PG 7	12,5	16,5	2	1,5	1.325.0700.19	1.325.0700.20
PG 9	15,2	19	2	1,5	1.325.0900.19	1.325.0900.20
PG 11	18,6	22,5	2	1,5	1.325.1100.19	1.325.1100.20
PG 13,5	20,4	25	2	1,5	1.325.1300.19	1.325.1300.20
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

GM-Ms

Metr., PG, G



Material Nickel plated brass

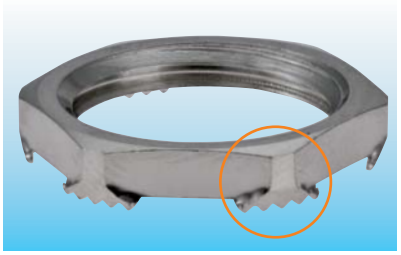


IG	H mm	mm	Number
M 12 x 1,5	2,8	15	1.161.1200.50
M 16 x 1,5	2,8	19	1.161.1600.50
M 20 x 1,5	3,0	23	1.161.2000.50
M 25 x 1,5	3,5	29	1.161.2500.50
M 32 x 1,5	4,0	36	1.161.3200.50
M 40 x 1,5	4,5	45	1.161.4000.50
M 50 x 1,5	5,5	55	1.161.5000.50
M 63 x 1,5	6,0	70	1.161.6300.50
M 75 x 1,5	8,0	85	1.161.7500.50
M 80 x 2	8,0	90	1.161.8000.50
M 90 x 2	8,0	100	1.161.9000.50
M 100 x 2	11	115	1.161.1000.50
M 110 x 2	11	125	1.161.1100.50

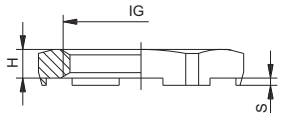
IG	H mm	mm	Number
PG 7	2,8	15	1.161.0700.01
PG 9	2,8	18	1.161.0900.01
PG 11	3,0	21	1.161.1100.01
PG 13,5	3,0	23	1.161.1300.01
PG16	3,0	26	1.161.1600.01
PG 21	3,5	32	1.161.2100.01
PG 29	4,0	41	1.161.2900.01
PG 36	5,0	51	1.161.3600.01
PG 42	5,0	60	1.161.4200.01
PG 48	5,5	64	1.161.4800.01
G 2 1/2"	7	80	1.106.5200.99
G 3"	8	95	1.106.3000.99
G 4"	11	125	1.106.4000.99

GM-EMV

Metr., PG



Material Nickel plated brass



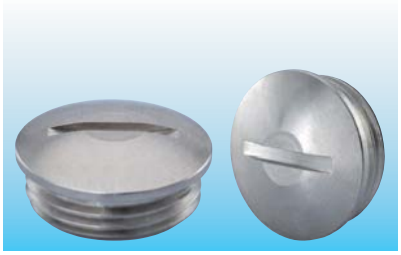
IG	H mm	mm	S mm	Number
M 12 x 1,5	2,8	15	0,7	1.167.1200.50
M 16 x 1,5	2,8	19	0,7	1.167.1600.50
M 20 x 1,5	3,0	24	0,7	1.167.2000.50
M 25 x 1,5	3,5	30	0,7	1.167.2500.50
M 32 x 1,5	4,5	36	0,7	1.167.3200.50
M 40 x 1,5	5,0	46	0,7	1.167.4000.50
M 50 x 1,5	5,0	60	0,7	1.167.5000.50
M 63 x 1,5	6,0	70	0,7	1.167.6300.50

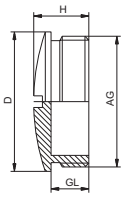
IG	H mm	mm	S mm	Number
PG 7	2,8	15	0,7	1.167.0700.01
PG 9	2,8	18	0,7	1.167.0900.01
PG 11	3,0	21	0,7	1.167.1100.01
PG 13,5	3,0	23	0,7	1.167.1300.01
PG 16	3,0	26	0,7	1.167.1600.01
PG 21	3,5	32	0,7	1.167.2100.01
PG 29	4,0	41	0,7	1.167.2900.01
PG 36	5,0	51	0,7	1.167.3600.01
PG 42	5,0	60	0,7	1.167.4200.01
PG 48	5,5	64	0,7	1.167.4800.01

Dimensions and specifications may be changed without prior notice

V-N-Ms — Metr., PG

Material	Nickel plated brass
Protection	IP 54



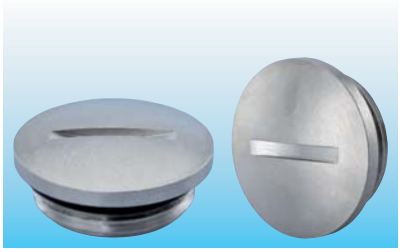


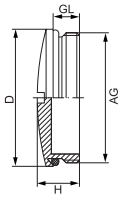
AG	GL mm	H mm	D mm	Number
M 12 x 1,5	5	7,5	14	1.052.1200.50
M 16 x 1,5	5	9,0	18	1.052.1600.50
M 20 x 1,5	6,5	9,5	22	1.052.2000.50
M 25 x 1,5	7	11,0	28	1.052.2500.50
M 32 x 1,5	8	12,0	35	1.052.3200.50
M 40 x 1,5	8,5	13,0	44	1.052.4000.50
M 50 x 1,5	9	15,0	54	1.052.5000.50
M 63 x 1,5	10	16,0	67	1.052.6300.50

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

V-N-Ms-SD — Metr., PG

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





Advice:
- NPT thread on request
- Elongated thread on request
- Other O-Ring materials upon request

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

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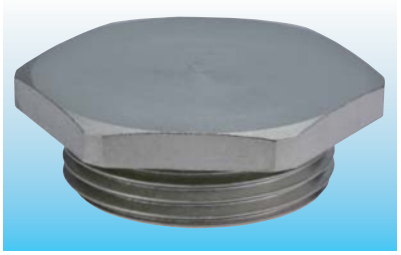
V-NE-Ms — Metr.



Advice:
- NPT thread on request
- Elongated thread on request
- Other O-Ring materials upon request

Material	Nickel plated brass

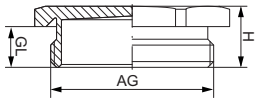
V-NE-Ms

Protection	IP 54

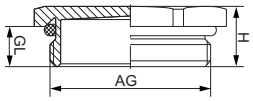
V-NE-Ms-SD/ V-NE-Ms-SD-FPM

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

V-NE-Ms

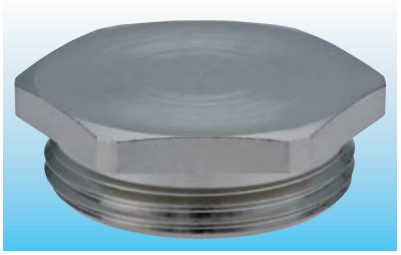


V-NE-Ms-SD



AG	GL mm	H mm	mm	Number V-NE-Ms without O-Ring	Number V-NE-Ms-SD -20 °C – 95 °C -4 °F – 203 °F	Number V-NE-Ms-SD-FPM -20 °C – 180 °C -4 °F – 356 °F
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

V-NE-Ms — PG



Advice:
- Other O-Ring materials upon request

Material	Nickel plated brass

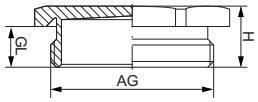
V-NE-Ms

Protection	IP 54

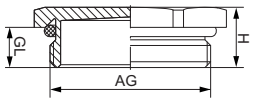
V-NE-Ms-SD/ V-NE-Ms-SD-FPM

Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
O-Ring / Operating Temperature	Buna-N / -20 °C – 95 °C (-4 °F – 203 °F) FPM / -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 -4 °F – 203 °F	Number V-NE-Ms-SD-FPM -20 °C – 180 °C -4 °F – 356 °F
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

Dimensions and specifications may be changed without prior notice

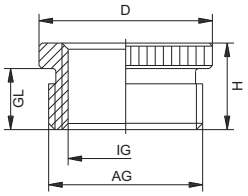
R-H

Metr., PG

RoHS

Material	Nickel plated brass

Advice:
- Metric threads with O-Ring thread seal available



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

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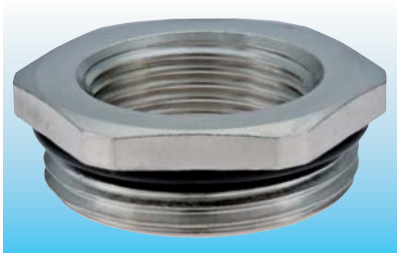
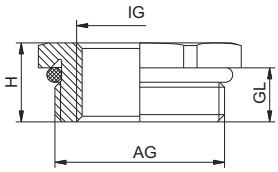
RSD-Ms — Metr.



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

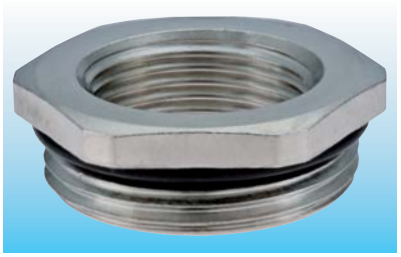
Advice:
- Other O-Ring materials upon request



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	35	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

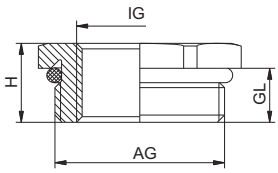
AG	IG mm	GL mm	H mm	mm	Number
M 50 x 1,5	M 25 x 1,5	9	13	55	1.077.5025.50
M 50 x 1,5	M 32 x 1,5	9	13	55	1.077.5032.50
M 50 x 1,5	M 40 x 1,5	9	13	55	1.077.5040.50
M 63 x 1,5	M 32 x 1,5	10	14	65	1.077.6332.50
M 63 x 1,5	M 40 x 1,5	10	14	65	1.077.6340.50
M 63 x 1,5	M 50 x 1,5	10	14	65	1.077.6350.50

RSD-Ms — PG



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

Advice:
- Other O-Ring materials upon request



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

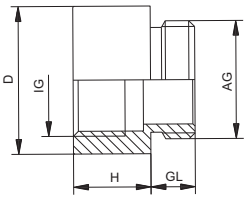
AG	IG mm	GL mm	H mm	mm	Number
PG 29	PG 16	8	11,5	40	1.077.2916.01
PG 29	PG 21	8	11,5	40	1.077.2921.01
PG 36	PG 21	9	12,5	50	1.077.3621.01
PG 36	PG 29	9	12,5	50	1.077.3629.01
PG 42	PG 29	10	13,5	57	1.077.4229.01
PG 42	PG 36	10	13,5	57	1.077.4236.01
PG 48	PG 36	10	13,5	64	1.077.4836.01
PG 48	PG 42	10	13,5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

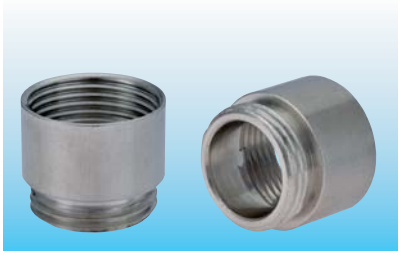
Dimensions and specifications may be changed without prior notice

RE-Ms — Metr., PG

RoHS

Material	Nickel plated brass



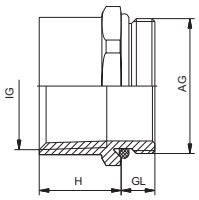


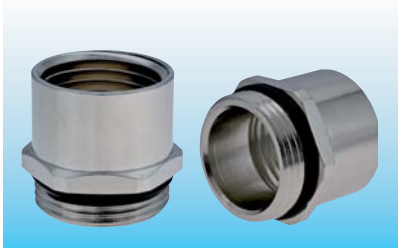
AG	IG	GL mm	H mm	D mm	mm	Number
M 16 x 1,5	PG 9	6	10,5	20		1.039.1609.01
M 20 x 1,5	PG 11	6,5	12,5	22		1.039.2011.01
M 20 x 1,5	PG 13,5	6,5	12,5	22		1.039.2013.01
M 20 x 1,5	PG 16	6,5	12,5	24		1.039.2016.01
M 25 x 1,5	PG 16	6,5	12,5	28		1.039.2516.01
M 25 x 1,5	PG 21	6,5	14,5	30		1.039.2521.01
M 32 x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

RE-Ms — PG

RoHS

Material	Nickel plated brass
O-Ring	NBR





AG	IG	GL mm	H mm	D 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
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

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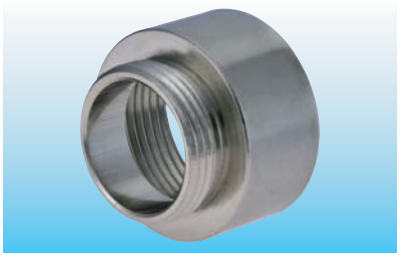
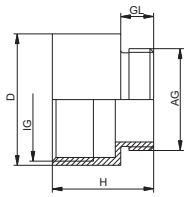
E-Ms — Metr.

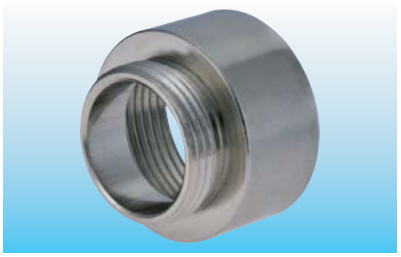


Material Nickel plated brass

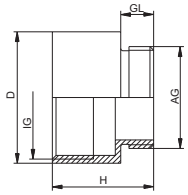


AG	IG	GL mm	H mm	D mm	Number
M 12 x 1,5	M 16 x 1,5	5	15	18	1.033.1216.50
M 16 x 1,5	M 20 x 1,5	6	17,5	22	1.033.1620.50
M 20 x 1,5	M 25 x 1,5	6,5	19	27	1.033.2025.50
M 25 x 1,5	M 32 x 1,5	6,5	21	34	1.033.2532.50
M 32 x 1,5	M 40 x 1,5	7	23	42	1.033.3240.50
M 40 x 1,5	M 50 x 1,5	9	31	53	1.033.4050.50
M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

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

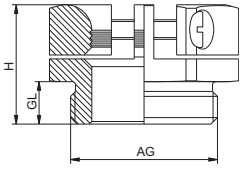
AG	IG	GL mm	H mm	D mm	Number
PG 29	PG 36	8	27,5	50	1.033.2936.01
PG 36	PG 42	9	31	57	1.033.3642.01
PG 42	PG 48	10	33	64	1.033.4248.01

Dimensions and specifications may be changed without prior notice

KLE — Metr.

RoHS

Material	Nickel plated brass

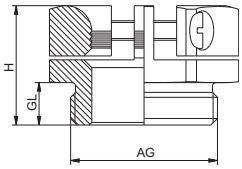


AG	GL	H mm	mm	mm	Number
M12 x 1,5	5,5	15,0	16	5–7,5	1.143.1200.50
M16 x 1,5	6,0	16,0	19	7–10	1.143.1600.50
M20 x 1,5	6,5	18,0	24	10–14	1.143.2000.50
M25 x 1,5	8,0	21,0	34	12–21,5	1.143.2500.50
M32 x 1,5	8,0	22,0	42	16–27	1.143.3200.50
M40 x 1,5	9,5	25,5	52	22–33	1.143.4000.50
M50 x 1,5	9,5	25,5	52	25–38,5	1.143.5000.50

KLE — PG

RoHS

Material	Nickel plated brass



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

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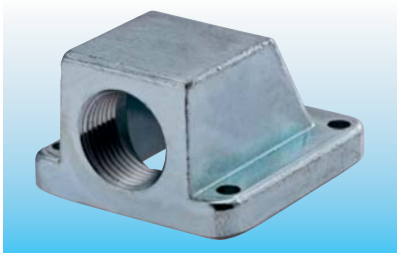
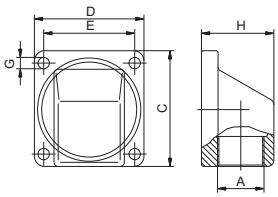
FW-ZN

Metr.



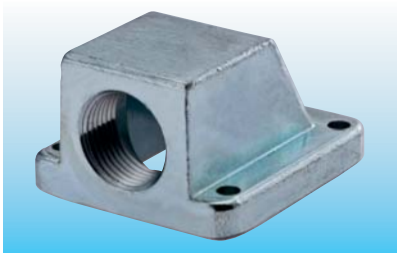
Material	Zinc die casting
Protection	IP 65
O-Ring	Buna-N
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F)



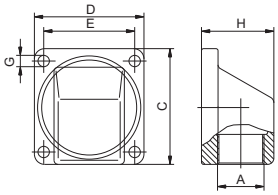
A	C mm	D mm	E mm	G mm	H mm	Number
M 20 x 1,5	56	53	44	5,5	35	1.306.2000.50
M 25 x 1,5	65	63	54	5,5	42	1.306.2500.50
M 32 x 1,5	75	71	60	5,5	52	1.306.3200.50
M 50 x 1,5	93	89	72	6,5	69	1.306.5000.50
M 63 x 1,5	114	96	84	6,5	74	1.306.6300.50

FW-ZN

PG



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



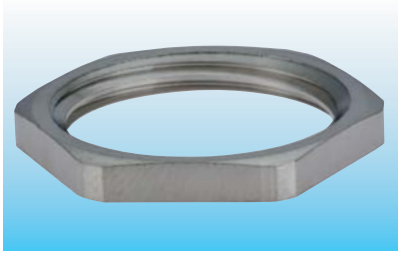
A	C mm	D mm	E mm	G mm	H mm	Number
PG 9	50	45	37	4,3	30	1.306.0900.05
PG 11	50	45	37	4,3	30	1.306.1100.05
PG 13,5	56	53	44	5,5	35	1.306.1300.05
PG 16	56	53	44	5,5	35	1.306.1600.05
PG 21	65	63	54	5,5	42	1.306.2100.05
PG 29	74	70	60	5,5	52	1.306.2900.05
PG 36	94	89	72	6,5	69	1.306.3600.05
PG 42	114	96	84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

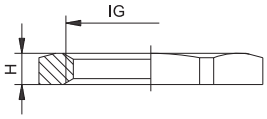
Dimensions and specifications may be changed without prior notice

GM-INOX — Metr.

RoHS

Material	INOX 1.4305





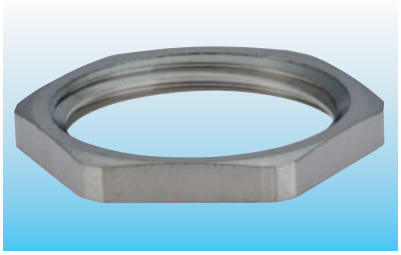
Advice:
- Other sizes upon request
- Other steal upon request

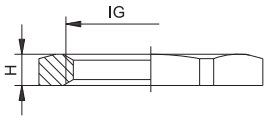
IG mm	H mm	mm	Number
M 12 x 1,5	2,8	15	1.161.1200.58
M 16 x 1,5	2,8	19	1.161.1600.58
M 20 x 1,5	3	24	1.161.2000.58
M 25 x 1,5	3,5	30	1.161.2500.58
M 32 x 1,5	3,5	36	1.161.3200.58
M 40 x 1,5	5	46	1.161.4000.58
M 50 x 1,5	5	57	1.161.5000.58
M 63 x 1,5	6	70	1.161.6300.58

GM-INOX — PG

RoHS

Material	INOX 1.4305





Advice:
- Other sizes upon request
- Other steal upon request

IG mm	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

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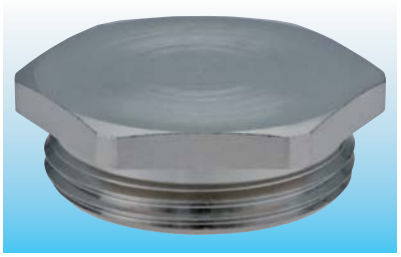
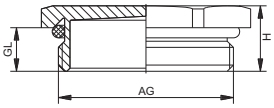
V-INOX — Metr.



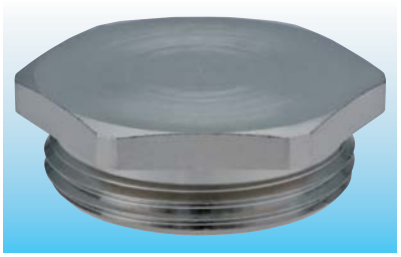
Material	INOX 1.4305
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
O-Ring	Buna-N / FPM / VMQ
Operating Temperature	-20°C – 95°C (-4 °F – 203 °F) (NBR), -20°C – 180°C (-4 °F – 356 °F) (FPM), -60°C – 180°C (-76 °F – 356 °F) (VMQ)

Advice:
- Elongated thread on request
- Other sizes upon request
- AISI 316L on request



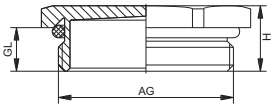
AG	GL mm	H mm	mm	Number V-INOX-Buna-N -20 °C – 95 °C -4 °F – 203 °F	Number V-INOX-FPM -20 °C – 180 °C -4 °F – 356 °F	Number V-INOX-VMQ -60 °C – 180 °C -76 °F – 356 °F
M 12 x 1,5	6,5	9,5	14	1.152.1200.50	1.153.1200.50	1.154.1200.50
M 16 x 1,5	6	9	19	1.152.1600.50	1.153.1600.50	1.154.1600.50
M 20 x 1,5	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

V-INOX — PG



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

Advice:
- Elongated thread on request
- Other sizes upon request
- AISI 316L on request



AG	GL mm	H mm	mm	Number V-INOX-Buna-N -20 °C – 95 °C -4 °F – 203 °F	Number V-INOX-FPM -20 °C – 180 °C -4 °F – 356 °F	Number V-INOX-VMQ -60 °C – 180 °C -76 °F – 356 °F
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

Dimensions and specifications may be changed without prior notice

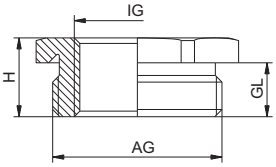
RS-INOX / RSD-INOX

Metr.

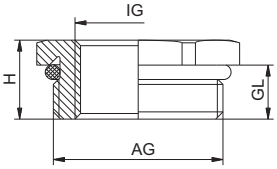
Material	INOX 1.4305
O-Ring	Buna-N
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F)

Advice:
- Other O-Ring materials upon request
- AISI 316L on 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

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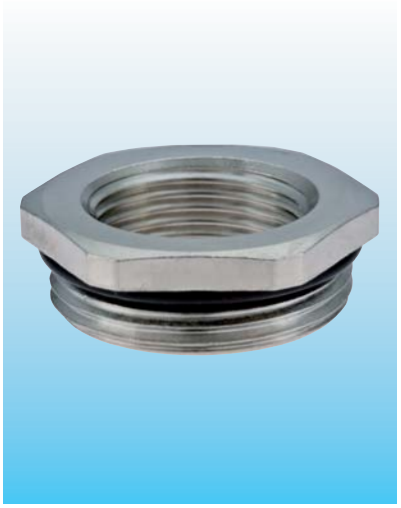
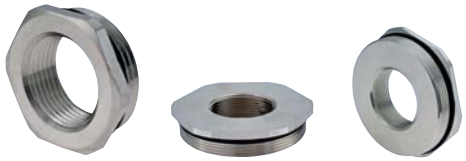
RS-INOX / RSD-INOX

PG

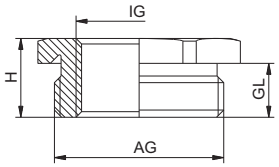


Material	INOX 1.4305
O-Ring	Buna-N
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F)

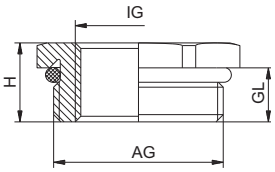
Advice:
- Other O-Ring materials upon request
- AISI 316L on request



RS-INOX



RSD-INOX



AG	IG	GL mm	H mm	mm	Number RS-INOX without O-Ring	Number RSD-INOX -20 °C – 95 °C -4 °F – 203 °F
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

Dimensions and specifications may be changed without prior notice

Cable glands for hazardous areas

EXIOS STANDARD, EXIOS BARRIER, EXIOS A2F

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.

You can find in this chapter

- 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 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:
  - Thread Seal Ring
  - Plugs
  - Earthtags
  - Serrated Washer

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.

Contact us:
E-Mail: info.et@hummel.com
Tel.: +49 (0) 76 66 / 91 110-0

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)

Ex-d
Ex-e

Advice:
- INOX on request

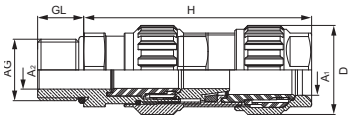
II 2G Ex de IIC Gb
II 1D Ex ta IIIC Da

ATEX BVS-10-ATEX-E-062-X

IECEx BVS 10.0078X

POCC-RU-0001-11TB05

INMETRO AEX-13499-X



AG	Size	A_1 mm	A_2 mm	GL mm	H max. mm	mm	D mm	Armouring ∅ 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

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

ATEX BVS-10-ATEX-E-062-X

IECEx BVS 10.0078X

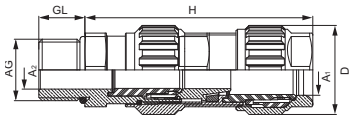
PCC POCC-RU-0001-11TB05

INMETRO AEX-13499-X

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)

Advice:
- INOX on request

Ex-d
Ex-e



AG	Size	A1 mm	A2 mm	GL mm	H max. mm	mm	D mm	Armouring ∅ 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+ 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)

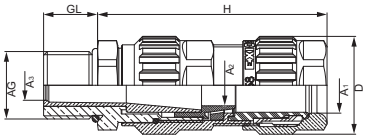
I M2 Ex de I Mb IIC Gb
I M2 Ex ta I IIIC Da

ATEX Sira-11-ATEX-1110-X

IECEx Sir 11.0044X

Ex-d
Ex-e

Advice:
- INOX on request



AG	Size	A1 mm	A2 mm	A3 mm	GL mm	H max. mm	mm	D mm	Armouring Ø mm Max. No. cores	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 – 33	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 – 33	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

Dimensions and specifications may be changed without prior notice

EXIOS+ BARRIER — Metr., NPT

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

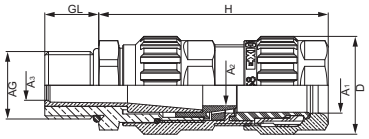
ATEX Sira-11-ATEX-1110-X

IECEx Sir 11.0044X

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)

Advice:
- INOX on request

Ex-d
Ex-e



AG	Size	A1 mm	A2 mm	A3 mm	GL mm	H max. mm	mm	D mm	Armouring ⌀ mm Max. No. cores	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 – 33	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 – 33	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

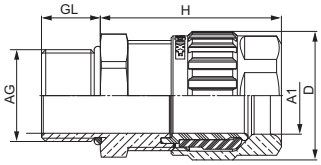
Metr.

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)

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

Ex-d
Ex-e

Advice:
- Aluminum and Stainless Steel on request



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 – 23	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

Dimensions and specifications may be changed without prior notice

Red Fibre Washer

Metr., NPT

RoHS

GFK thread seal

Material	Fiber reinforced Nylon
Operating Temperature	-60 °C – 105 °C

Size	Number
M 16	1.326.1600.50
M 20	1.326.2000.50
M 25	1.326.2500.50
M 32	1.326.3200.50
M 40	1.326.4000.50
M 50	1.326.5000.50
M 63	1.326.6300.50
M 75	1.326.7500.50

Size	Number
1/2"	1.326.1200.70
3/4"	1.326.3400.70
1"	1.326.1000.70
1 1/4"	1.326.5400.70
1 1/2"	1.326.6400.70
2"	1.326.2000.70
2 1/2"	1.326.5200.70
3"	1.326.3000.70

PVC Shroud

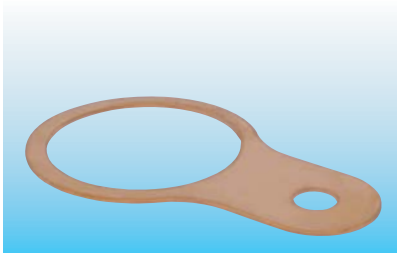
RoHS

Material	PVC

Size	Number
20– 1	1.802.2000.50
20– 2	1.802.2000.51
20– 3	1.802.2000.52
25	1.802.2500.50
32	1.802.3200.50
40	1.802.4000.50
50	1.802.5000.50
63	1.802.6300.50
75	1.802.7500.50

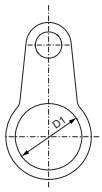
Earthtag

Metr., NPT



Material	Brass

RoHS

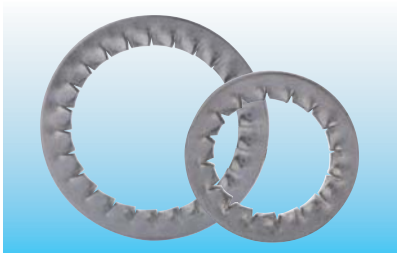


Advice
- INOX on request

Size	Number	Size	Number
M 16	1.022.1600.50	1/2″	1.022.1200.70
M 20	1.022.2000.50	3/4″	1.022.3400.70
M 25	1.022.2500.50	1″	1.022.1000.70
M 32	1.022.3200.50	1 1/4″	1.022.5400.70
M 40	1.022.4000.50	1 1/2″	1.022.6400.70
M 50	1.022.5000.50	2″	1.022.2000.70
M 63	1.022.6300.50	2 1/2″	1.022.5200.70
M 75	1.022.7500.50	3″	1.022.3000.70

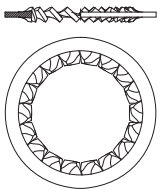
Serrated Washer

Metr., NPT



Material	INOX

RoHS



Size	Number	Size	Number
M 16	1.329.1600.50	1/2″	1.329.1200.70
M 20	1.329.2000.50	3/4″	1.329.3400.70
M 25	1.329.2500.50	1″	1.329.1000.70
M 32	1.329.3200.50	1 1/4″	1.329.5400.70
M 40	1.329.4000.50	1 1/2″	1.329.6400.70
M 50	1.329.5000.50	2″	1.329.2000.70
M 63	1.329.6300.50	2 1/2″	1.329.5200.70
M 75	1.329.7500.50	3″	1.329.3000.70

Dimensions and specifications may be changed without prior notice

Industrial cable glands

HSK Ex-e Standard 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 standard cable glands
- made of polyamide
- nickel plated brass with different temperature ranges
- various grades of stainless steel with different temperature ranges

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

Contact us:
E-Mail: info.et@hummel.com
Tel.: +49 (0) 76 66 / 91 110-0

Advice:

you can find HSK-EMV-Ex-e cable glands in the next chapter from page 123

you can find HSK-Ex-e Multi hole glands and much more in the chapter "HSK-Ex-e cable glands for special applications" from page 131

you can find HSK-Ex-d standard cable glands from page 139

HSK Ex-e Standard cable glands

www.hummel.com

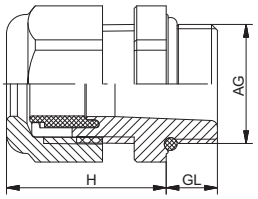
HSK-K-Ex

Metr.

Material	Polyamide V0 according to UL 94
Seal	Buna-N
O-Ring	Buna-N
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG) within the specified clamping range
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F)
Colors	grey (RAL 7035) black (RAL 9005), blue (RAL 5012)

II 2G 1D

For the international certificates please see page 176 or our homepage www.hummel.com



AG	⌀ mm	GL mm	H mm	mm	Number grey	Number black	Number blue
M 12 x 1,5	3 – 6,5	8	21	15	1.291.1200.50	1.291.1201.50	1.291.1202.50
M 12 x 1,5	2 – 5	8	21	15	1.291.1200.51	1.291.1201.51	1.291.1202.51
M 16 x 1,5	4 – 8	8	22	19	1.291.1600.50	1.291.1601.50	1.291.1602.50
M 16 x 1,5	3 – 6	8	22	19	1.291.1600.51	1.291.1601.51	1.291.1602.51
M 16 x 1,5	5 – 10	8	25	22	1.295.1600.50	1.295.1601.50	1.295.1602.50
M 16 x 1,5	3 – 7	8	25	22	1.295.1600.51	1.295.1601.51	1.295.1602.51
M 20 x 1,5	6,5 – 12	9	27	24	1.291.2000.50	1.291.2001.50	1.291.2002.50
M 20 x 1,5	5 – 9	9	27	24	1.291.2000.51	1.291.2001.51	1.291.2002.51
M 20 x 1,5	10 – 14	9	28	27	1.295.2000.50	1.295.2001.50	1.295.2002.50
M 20 x 1,5	7 – 12	9	28	27	1.295.2000.51	1.295.2001.51	1.295.2002.51
M 25 x 1,5	13 – 18	11	31	33	1.291.2500.50	1.291.2501.50	1.291.2502.50
M 25 x 1,5	9 – 16	11	31	33	1.291.2500.51	1.291.2501.51	1.291.2502.51
M 32 x 1,5	18 – 25	11	39	42	1.291.3200.50	1.291.3201.50	1.291.3202.50
M 32 x 1,5	13 – 20	11	39	42	1.291.3200.51	1.291.3201.51	1.291.3202.51
M 40 x 1,5	22 – 32	13	48	53	1.291.4000.50	1.291.4001.50	1.291.4002.50
M 40 x 1,5	20 – 26	13	48	53	1.291.4000.51	1.291.4001.51	1.291.4002.51
M 50 x 1,5	32 – 38	13	49	60	1.291.5000.50	1.291.5001.50	1.291.5002.50
M 50 x 1,5	25 – 31	13	49	60	1.291.5000.51	1.291.5001.51	1.291.5002.51
M 63 x 1,5	37 – 44	14	49	65 / 68	1.291.6300.50	1.291.6301.50	1.291.6302.50
M 63 x 1,5	29 – 35	14	49	65 / 68	1.291.6300.51	1.291.6301.51	1.291.6302.51

Accessories see page 73 and 143

Dimensions and specifications may be changed without prior notice

HSK-K-Ex

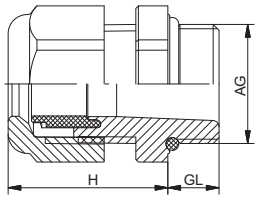
Metr.-elongated

II 2G 1D

ATEX

For the international certificates please see page 176 or our homepage www.hummel.com

Material	Polyamide V0 according to UL 94
Seal	Buna-N
O-Ring	Buna-N
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG) within the specified clamping range
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F)
Colors	grey (RAL 7035) black (RAL 9005), blue (RAL 5012)



AG	⌀ mm	GL mm	H mm	mm	Number grey	Number black	Number blue
M 12 x 1,5	3 – 6,5	15	21	15	1.291.1200.30	1.291.1201.30	1.291.1202.30
M 12 x 1,5	2 – 5	15	21	15	1.291.1200.31	1.291.1201.31	1.291.1202.31
M 16 x 1,5	4 – 8	15	22	19	1.291.1600.30	1.291.1601.30	1.291.1602.30
M 16 x 1,5	3 – 6	15	22	19	1.291.1600.31	1.291.1601.31	1.291.1602.31
M 16 x 1,5	5 – 10	15	25	22	1.295.1600.30	1.295.1601.30	1.295.1602.30
M 16 x 1,5	3 – 7	15	25	22	1.295.1600.31	1.295.1601.31	1.295.1602.31
M 20 x 1,5	6,5 – 12	15	27	24	1.291.2000.30	1.291.2001.30	1.291.2002.30
M 20 x 1,5	5 – 9	15	27	24	1.291.2000.31	1.291.2001.31	1.291.2002.31
M 20 x 1,5	10 – 14	15	28	27	1.295.2000.30	1.295.2001.30	1.295.2002.30
M 20 x 1,5	7 – 12	15	28	27	1.295.2000.31	1.295.2001.31	1.295.2002.31
M 25 x 1,5	13 – 18	15	31	33	1.291.2500.30	1.291.2501.30	1.291.2502.30
M 25 x 1,5	9 – 16	15	31	33	1.291.2500.31	1.291.2501.31	1.291.2502.31
M 32 x 1,5	18 – 25	15	39	42	1.291.3200.30	1.291.3201.30	1.291.3202.30
M 32 x 1,5	13 – 20	15	39	42	1.291.3200.31	1.291.3201.31	1.291.3202.31
M 40 x 1,5	22 – 32	18	48	53	1.291.4000.30	1.291.4001.30	1.291.4002.30
M 40 x 1,5	20 – 26	18	48	53	1.291.4000.31	1.291.4001.31	1.291.4002.31
M 50 x 1,5	32 – 38	18	49	60	1.291.5000.30	1.291.5001.30	1.291.5002.30
M 50 x 1,5	25 – 31	18	49	60	1.291.5000.31	1.291.5001.31	1.291.5002.31
M 63 x 1,5	37 – 44	18	49	65 / 68	1.291.6300.30	1.291.6301.30	1.291.6302.30
M 63 x 1,5	29 – 35	18	49	65 / 68	1.291.6300.31	1.291.6301.31	1.291.6302.31

Accessories see page 73 and 143

HSK Ex-e Standard cable glands

www.hummel.com

HSK-K-Ex

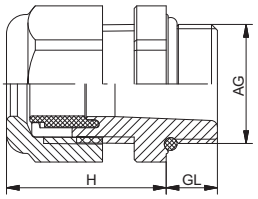
PG

Material	Polyamide V0 according to UL 94
Seal	Buna-N
O-Ring	Buna-N
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG) within the specified clamping range
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F)
Colors	grey (RAL 7035) black (RAL 9005), blue (RAL 5012)

RoHS

ATEX II 2G 1D

For the international certificates please see page 176 or our homepage www.hummel.com



AG	⌀ mm	GL mm	H mm	mm	Number grey	Number black	Number blue
PG 7	3 – 6,5	8	21	15	1.291.0700.14	1.291.0701.14	1.291.0702.14
PG 7	2 – 5	8	21	15	1.291.0700.15	1.291.0701.15	1.291.0702.15
PG 9	4 – 8	8	22	19	1.291.0900.14	1.291.0901.14	1.291.0902.14
PG 9	3 – 6	8	22	19	1.291.0900.15	1.291.0901.15	1.291.0902.15
PG 11	5 – 10	8	25	22	1.291.1100.14	1.291.1101.14	1.291.1102.14
PG 11	3 – 7	8	25	22	1.291.1100.15	1.291.1101.15	1.291.1102.15
PG 13,5	6,5 – 12	9	27	24	1.291.1300.14	1.291.1301.14	1.291.1302.14
PG 13,5	5 – 9	9	27	24	1.291.1300.15	1.291.1301.15	1.291.1302.15
PG 16	10 – 14	10	28	27	1.291.1600.14	1.291.1601.14	1.291.1602.14
PG 16	7 – 12	10	28	27	1.291.1600.15	1.291.1601.15	1.291.1602.15
PG 21	13 – 18	11	31	33	1.291.2100.14	1.291.2101.14	1.291.2102.14
PG 21	9 – 16	11	31	33	1.291.2100.15	1.291.2101.15	1.291.2102.15
PG 29	18 – 25	11	39	42	1.291.2900.14	1.291.2901.14	1.291.2902.14
PG 29	13 – 20	11	39	42	1.291.2900.15	1.291.2901.15	1.291.2902.15
PG 36	22 – 32	13	48	53	1.291.3600.14	1.291.3601.14	1.291.3602.14
PG 36	20 – 26	13	48	53	1.291.3600.15	1.291.3601.15	1.291.3602.15
PG 42	32 – 38	13	49	60	1.291.4200.14	1.291.4201.14	1.291.4202.14
PG 42	25 – 31	13	49	60	1.291.4200.15	1.291.4201.15	1.291.4202.15
PG 48	37 – 44	14	49	65	1.291.4800.14	1.291.4801.14	1.291.4802.14
PG 48	29 – 35	14	49	65	1.291.4800.15	1.291.4801.15	1.291.4802.15

Accessories see page 73 and 143

Dimensions and specifications may be changed without prior notice

HSK-K-Ex

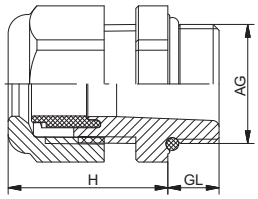
PG-elongated

RoHS

II 2G 1D

Material	Polyamide V0 according to UL 94
Seal	Buna-N
O-Ring	Buna-N
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG) within the specified clamping range
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F)
Colors	grey (RAL 7035) black (RAL 9005), blue (RAL 5012)

For the international certificates please see page 176 or our homepage www.hummel.com



AG	⌀ mm	GL mm	H mm	mm	Number grey	Number black	Number blue
PG 7	3 – 6,5	15	21	15	1.291.0700.60	1.291.0701.60	1.291.0702.60
PG 7	2 – 5	15	21	15	1.291.0700.61	1.291.0701.61	1.291.0702.61
PG 9	4 – 8	15	22	19	1.291.0900.60	1.291.0901.60	1.291.0902.60
PG 9	3 – 6	15	22	19	1.291.0900.61	1.291.0901.61	1.291.0902.61
PG 11	5 – 10	15	25	22	1.291.1100.60	1.291.1101.60	1.291.1102.60
PG 11	3 – 7	15	25	22	1.291.1100.61	1.291.1101.61	1.291.1102.61
PG 13,5	6,5 – 12	15	27	24	1.291.1300.60	1.291.1301.60	1.291.1302.60
PG 13,5	5 – 9	15	27	24	1.291.1300.61	1.291.1301.61	1.291.1302.61
PG 16	10 – 14	15	28	27	1.291.1600.60	1.291.1601.60	1.291.1602.60
PG 16	7 – 12	15	28	27	1.291.1600.61	1.291.1601.61	1.291.1602.61
PG 21	13 – 18	15	31	33	1.291.2100.60	1.291.2101.60	1.291.2102.60
PG 21	9 – 16	15	31	33	1.291.2100.61	1.291.2101.61	1.291.2102.61
PG 29	18 – 25	15	39	42	1.291.2900.60	1.291.2901.60	1.291.2902.60
PG 29	13 – 20	15	39	42	1.291.2900.61	1.291.2901.61	1.291.2902.61
PG 36	22 – 32	18	48	53	1.291.3600.60	1.291.3601.60	1.291.3602.60
PG 36	20 – 26	18	48	53	1.291.3600.61	1.291.3601.61	1.291.3602.61
PG 42	32 – 38	18	49	60	1.291.4200.60	1.291.4201.60	1.291.4202.60
PG 42	25 – 31	18	49	60	1.291.4200.61	1.291.4201.61	1.291.4202.61
PG 48	37 – 44	18	49	65	1.291.4800.60	1.291.4801.60	1.291.4802.60
PG 48	29 – 35	18	49	65	1.291.4800.61	1.291.4801.61	1.291.4802.61

Accessories see page 73 and 143

HSK Ex-e Standard cable glands

www.hummel.com

HSK-K-Ex

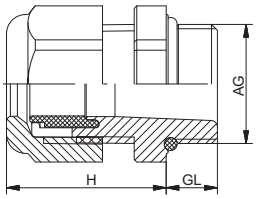
NPT

Material	Polyamide V0 according to UL 94
Seal	Buna-N
O-Ring	Buna-N
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG) within the specified clamping range
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F)
Colors	grey (RAL 7035) black (RAL 9005), blue (RAL 5012)

RoHS

ATEX II 2G 1D

For the international certificates please see page 176 or our homepage www.hummel.com



AG	⌀ mm	GL mm	H mm	mm	Number grey	Number black	Number blue
NPT 3/8"	4 – 8	15	22	19 / 22	1.291.3800.70	1.291.3801.70	1.291.3802.70
NPT 3/8"	2 – 6	15	22	19 / 22	1.291.3800.71	1.291.3801.71	1.291.3802.71
NPT 1/2"	6,5 – 12	13	27	24	1.291.1200.70	1.291.1201.70	1.291.1202.70
NPT 1/2"	5 – 9	13	27	24	1.291.1200.71	1.291.1201.71	1.291.1202.71
NPT 1/2" (16)	10 – 14	13	28	27	1.291.1216.70	1.291.1217.70	1.291.1218.70
NPT 1/2" (16)	7 – 12	13	28	27	1.291.1216.71	1.291.1217.71	1.291.1218.71
NPT 3/4"	13 – 18	14	31	33	1.291.3400.70	1.291.3401.70	1.291.3402.70
NPT 3/4"	9 – 16	14	31	33	1.291.3400.71	1.291.3401.71	1.291.3402.71
NPT 1"	18 – 25	19	39	42	1.291.1000.70	1.291.1001.70	1.291.1002.70
NPT 1"	13 – 20	19	39	42	1.291.1000.71	1.291.1001.71	1.291.1002.71
NPT 1 1/4"	18 – 25	16	39	42 / 46	1.291.5400.70	1.291.5401.70	1.291.5402.70
NPT 1 1/4"	13 – 20	16	39	42 / 46	1.291.5400.71	1.291.5401.71	1.291.5402.71
NPT 1 1/2"	22 – 32	20	48	53	1.291.6400.70	1.291.6401.70	1.291.6402.70
NPT 1 1/2"	20 – 26	20	48	53	1.291.6400.71	1.291.6401.71	1.291.6402.71

Accessories see page 73 and 143

Dimensions and specifications may be changed without prior notice

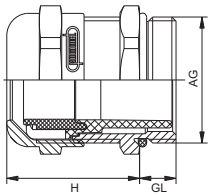
HSK-M-Ex / HSK-M-PVDF-Ex

Metr.

II 2G 1D

For the international certificates please see page 176 or our homepage www.hummel.com

Material	Nickel plated brass
Clamping insert	Polyamide / PVDF
Seal	Buna-N / FPM
O-Ring	Buna-N / FPM
Protection	IP 68 – 10 bar / IP 69K within the specified clamping range
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)



AG	⌀ mm	GL mm	H mm	mm	Number HSK-M-Ex -20 °C – 95 °C (-4 °F – 203 °F)	Number HSK-M-Ex -60 °C – 95 °C (-76 °F – 203 °F)	Number HSK-M-PVDF-Ex -20 °C – 130 °C (-4 °F – 266 °F)
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	6 – 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 73 and 143

HSK Ex-e Standard cable glands

www.hummel.com

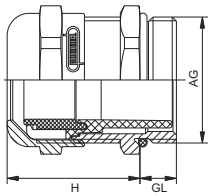
HSK-M-Ex / HSK-M-PVDF-Ex

Metr.-elongated

Material	Nickel plated brass
Clamping insert	Polyamide / PVDF
Seal	Buna-N / FPM
O-Ring	Buna-N / FPM
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG) within the specified clamping range
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 176 or our homepage www.hummel.com



AG	⌀ mm	GL mm	H mm	mm	Number HSK-M-Ex -20 °C – 95 °C (-4 °F – 203 °F)	Number HSK-M-Ex -60 °C – 95 °C (-76 °F – 203 °F)	Number HSK-M-PVDF-Ex -20 °C – 130 °C (-4 °F – 266 °F)
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	6 – 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 73 and 143

Dimensions and specifications may be changed without prior notice

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

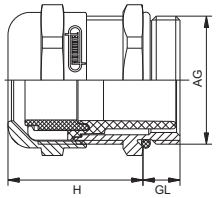
PG, NPT

RoHS

II 2G 1D

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

For the international certificates please see page 176 or our homepage www.hummel.com



AG	⌀ mm	GL mm	H mm	mm	Number HSK-M-Ex -20 °C – 95 °C (-4 °F – 203 °F)	Number HSK-M-Ex -60 °C – 95 °C (-76 °F – 203 °F)	Number HSK-M-PVDF-Ex -20 °C – 130 °C (-4 °F – 266 °F)
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	6 – 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"	6 – 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 73 and 143

HSK Ex-e Standard cable glands

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

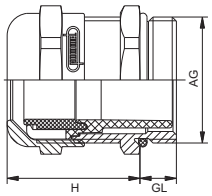
PG-elongated

Material	Nickel plated brass
Clamping insert	Polyamide / PVDF
Seal	Buna-N / FPM
O-Ring	Buna-N / FPM
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG) within the specified clamping range
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)

RoHS

II 2G 1D

For the international certificates please see page 176 or our homepage www.hummel.com



AG	⌀ mm	GL mm	H mm	mm	Number HSK-M-Ex -20 °C – 95 °C (-4 °F – 203 °F)	Number HSK-M-Ex -60 °C – 95 °C (-76 °F – 203 °F)	Number HSK-M-PVDF-Ex -20 °C – 130 °C (-4 °F – 266 °F)
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	6 – 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 73 and 143

Dimensions and specifications may be changed without prior notice

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

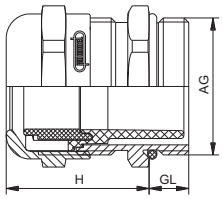
Metr.

II 2G 1D

For the international certificates please see page 176 or our homepage www.hummel.com

Material	INOX (1.4305)
Clamping insert	Polyamide / PVDF
Seal	Buna-N / FPM
O-Ring	Buna-N / FPM
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG) within the specified clamping range
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)

Advice:
- AISI 316L on request



AG	⌀ mm	GL mm	H mm	mm	Number HSK-INOX-Ex -20 °C – 95 °C (-4 °F – 203 °F)	Number HSK-INOX-Ex -60 °C – 95 °C (-76 °F – 203 °F)	Number HSK-INOX-PVDF-Ex -20 °C – 130 °C (-4 °F – 266 °F)
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 73 and 143

www.hummel.com

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

PG

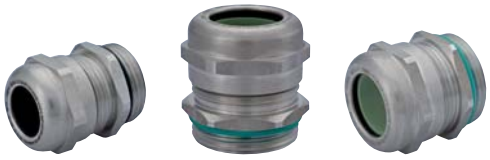
Material	INOX (1.4305)
Clamping insert	Polyamide / PVDF
Seal	Buna-N / FPM
O-Ring	Buna-N / FPM
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG) within the specified clamping range
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F) / -60 °C – 95 °C (-76 °F – 203 °F) / -20 °C – 130 °C (-4 °F –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

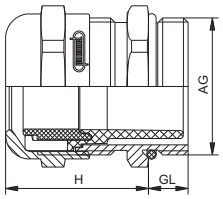
Advice:
- AISI 316L on request

RoHS

II 2G 1D

For the international certificates please see page 176 or our homepage www.hummel.com





AG	⌀ mm	GL mm	H mm	mm	Number HSK-INOX-Ex -20 °C – 95 °C (-4 °F – 203 °F)	Number HSK-INOX-Ex -60 °C – 95 °C (-76 °F – 203 °F)	Number HSK-INOX-PVDF-Ex -20 °C – 130 °C (-4 °F – 266 °F)
PG 7	3 – 6,5	5	19	14	1.612.0700.01	1.642.0700.01	1.662.0700.01
PG 7	2 – 5	5	19	14	1.612.0700.15	1.642.0700.15	1.662.0700.15
PG 9	4 – 8	6	21	17	1.612.0900.01	1.642.0900.01	1.662.0900.01
PG 9	2 – 6	6	21	17	1.612.0900.15	1.642.0900.15	1.662.0900.15
PG 11	5 – 10	6	22	22	1.612.1100.01	1.642.1100.01	1.662.1100.01
PG 11	3 – 7	6	22	22	1.612.1100.15	1.642.1100.15	1.662.1100.15
PG 13,5	6 – 12	6	24	22	1.612.1300.01	1.642.1300.01	1.662.1300.01
PG 13,5	5 – 9	6	24	22	1.612.1300.15	1.642.1300.15	1.662.1300.15
PG 16	10 – 14	6	23	24	1.612.1600.01	1.642.1600.01	1.662.1600.01
PG 16	7 – 12	6	23	24	1.612.1600.15	1.642.1600.15	1.662.1600.15
PG 21	13 – 18	7	24	30	1.612.2100.01	1.642.2100.01	1.662.2100.01
PG 21	9 – 16	7	24	30	1.612.2100.15	1.642.2100.15	1.662.2100.15
PG 29	20 – 25	8	29	41	1.612.2900.01	1.642.2900.01	1.662.2900.01
PG 29	13 – 20	8	29	41	1.612.2900.15	1.642.2900.15	1.662.2900.15
PG 36	22 – 32	8	35	50	1.612.3600.01	1.642.3600.01	1.662.3600.01
PG 36	20 – 26	8	35	50	1.612.3600.15	1.642.3600.15	1.662.3600.15

Accessories see page 73 and 143

Dimensions and specifications may be changed without prior notice

Industrial cable glands

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-EMC-Ex-e cable glands
- made of nickel plated brass with different temperature ranges
- various grades of stainless steel with different temperature ranges

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.

Contact us:
E-Mail: info.et@hummel.com
Tel.: +49 (0) 76 66 / 91 110-0

Advice:

you can find HSK-Ex-e Multi hole glands and much more in the chapter "HSK-Ex-e cable glands for special applications" from page 131

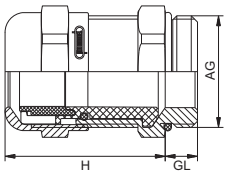
you can find HSK-Ex-d standard cable glands from page 139

HSK-M-EMV-D-Ex — Metr.

For the international certificates please see page 176 or our homepage www.hummel.com

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) within the specified clamping range
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F) / -60 °C – 95 °C (-76 °F – 203 °F)

ATEX II 2G 1D



AG	⌀ mm	GL mm	H mm	mm	Number HSK-M-EMV-D-Ex -20 °C – 95 °C (-4 °F – 203 °F)	Number HSK-M-EMV-D-Ex -60 °C – 95 °C (-76 °F – 203 °F)
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

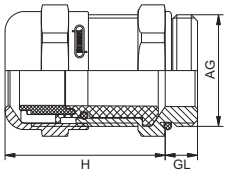
Accessories see page 73 and 143

HSK-M-EMV-D-Ex — Metr.-elongated

For the international certificates please see page 176 or our homepage www.hummel.com

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) within the specified clamping range
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F) / -60 °C – 95 °C (-76 °F – 203 °F)

ATEX II 2G 1D



AG	⌀ mm	GL mm	H mm	mm	Number HSK-M-EMV-D-Ex -20 °C – 95 °C (-4 °F – 203 °F)	Number HSK-M-EMV-D-Ex -60 °C – 95 °C (-76 °F – 203 °F)
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 73 and 143

Dimensions and specifications may be changed without prior notice

HSK-M-EMV-D-Ex

PG

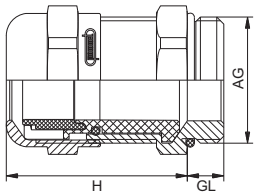
RoHS

II 2G 1D

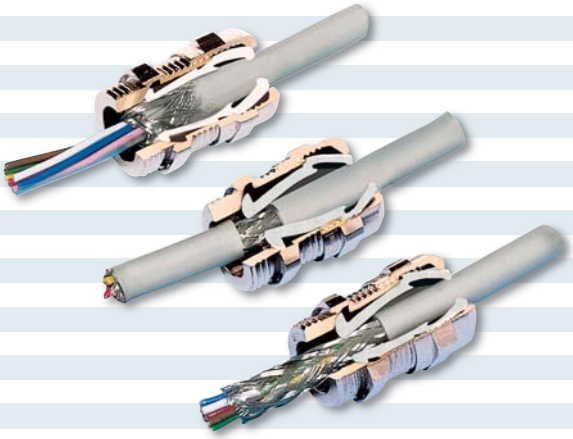
Material	Nickel plated brass
Clamping insert	Metalised Polyamide
Seal	Buna-N
O-Ring	Buna-N
Protection	IP 68 – 10 bar / IP 69K within the specified clamping range
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F) / -60 °C – 95 °C (-76 °F – 203 °F)

For the international certificates please see page 176 or our homepage www.hummel.com

Advice:
- Elongated threads on request



AG	⌀ mm	GL mm	H mm	mm	Number HSK-M-EMV-D-Ex -20 °C – 95 °C (-4 °F – 203 °F)	Number HSK-M-EMV-D-Ex -60 °C – 95 °C (-76 °F – 203 °F)
PG 11	5 – 10	6	29	20	1.636.1100.01	1.637.1100.01
PG 13,5	6 – 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 73 and 143

HSK-EMC-Ex-e cable glands

HSK-M-EMV-Ex

Metr.

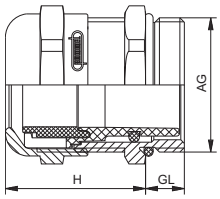
Material	Nickel plated brass
Clamping insert	Polyamide
Seal	Buna-N
O-Ring	Buna-N
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG) within the specified clamping range
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F) / -60 °C – 95 °C (-76 °F – 203 °F)

Advice:
- Elongated threads on request
- Stainless steel on request

II 2G 1D

For the international certificates please see page 176 or our homepage www.hummel.com

See our homepage www.hummel.com for assembling advices for maximum cable diameters



AG	⌀ mm	GL mm	H mm	mm	Number HSK-M-EMV-Ex -20 °C – 95 °C (-4 °F – 203 °F)	Number HSK-M-EMV-Ex -60 °C – 95 °C (-76 °F – 203 °F)
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 73 and 143

Dimensions and specifications may be changed without prior notice

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

PG, NPT

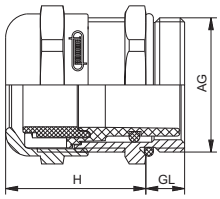
RoHS

II 2G 1D

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

For the international certificates please see page 176 or our homepage www.hummel.com

Advice:
- Elongated threads on request



AG	⌀ mm	GL mm	H mm	mm	Number HSK-M-EMV-Ex -20 °C – 95 °C (-4 °F – 203 °F)	Number HSK-M-EMV-Ex -60 °C – 95 °C (-76 °F – 203 °F)	Number HSK-M-EMV-PVDF-Ex -20 °C – 130 °C (-4 °F – 266 °F)
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	6 – 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"	6 – 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 73 and 143

HSK-EMC-Ex-e cable glands

HSK-MZ-EMV-Ex

Metr.

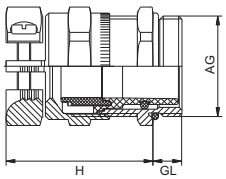
Material	Nickel plated brass
Clamping insert	Polyamide
Seal	Buna-N
O-Ring	Buna-N
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG) within the specified clamping range
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F) / -60 °C – 95 °C (-76 °F – 203 °F)

Advice:
- Elongated threads on request

II 2G 1D

For the international certificates please see page 176 or our homepage www.hummel.com

See our homepage www.hummel.com for assembling advices for maximum cable diameters



AG	⌀ mm	GL mm	H mm	mm	Number HSK-M-EMV-Ex -20 °C – 95 °C (-4 °F – 203 °F)	Number HSK-M-EMV-Ex -60 °C – 95 °C (-76 °F – 203 °F)
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 73 and 143

Dimensions and specifications may be changed without prior notice

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

PG

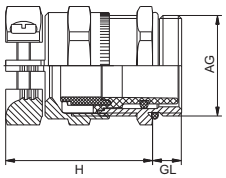
RoHS

II 2G 1D

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

For the international certificates please see page 176 or our homepage www.hummel.com

Advice:
- Elongated threads on request



AG	⌀ mm	GL mm	H mm	mm	Number HSK-MZ-EMV-Ex -20 °C – 95 °C (-4 °F – 203 °F)	Number HSK-MZ-EMV-Ex -60 °C – 95 °C (-76 °F – 203 °F)	Number HSK-MZ-EMV-PVDF-Ex -20 °C – 130 °C (-4 °F – 266 °F)
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

Accessories see page 73 and 143

www.hummel.com

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

NPT

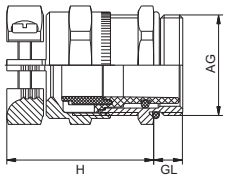
Material	Nickel plated brass
Clamping insert	Polyamide / PVDF
Seal	Buna-N / FPM
O-Ring	Buna-N / FPM
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG) within the specified clamping range
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F) / -60 °C – 95 °C (-76 °F – 203 °F) / -20 °C – 130 °C (-4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

RoHS

ATEX II 2G 1D

For the international certificates please see page 176 or our homepage www.hummel.com

Advice:
- Elongated threads on request



AG	⌀ mm	GL mm	H mm	mm	Number HSK-MZ-EMV-Ex -20 °C – 95 °C (-4 °F – 203 °F)	Number HSK-MZ-EMV-Ex -60 °C – 95 °C (-76 °F – 203 °F)	Number HSK-MZ-EMV-PVDF-Ex -20 °C – 130 °C (-4 °F – 266 °F)
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 73 and 143

Dimensions and specifications may be changed without prior notice

Industrial cable glands

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-Ex-e cable glands
- made of polyamide and nickel plated brass with multi hole and flat cable sealing inserts
- made of polyamide and nickel plated brass 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.

Contact us:
E-Mail: info.et@hummel.com
Tel.: +49 (0) 76 66 / 91 110-0

Advice:

you can find HSK-Ex-d standard cable glands from page 139

HSK Ex-e cable glands for special applications

HSK-K-Multi-Ex

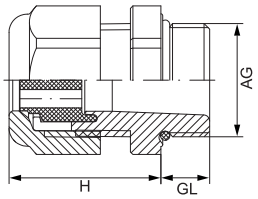
Metr., PG, NPT

Material	Polyamide V0 according to UL 94
Seal	Elastomer
Protection	IP 68
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F)
Colors	grey (RAL 7035), black (RAL 9005)
O-Ring	Buna-N

Advice:
- Installation instruction see page 176

ATEX II 2G 1D

For the international certificates please see page 176 or our homepage www.hummel.com



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	1.599.1600.50	1.599.1600.51	2 x 3	1.599.1601.50	1.599.1601.51
M 20 x 1,5	9	27	24	6 x 3	1.599.2001.50	1.599.2001.51	2 x 5	1.599.2003.50	1.599.2003.51
M 25 x 1,5	11	31	33	4 x 6	1.599.2500.50	1.599.2500.51	3 x 7	1.599.2501.50	1.599.2501.51
M 32 x 1,5	11	39	42	6 x 6,5	1.599.3200.50	1.599.3200.51	4 x 9	1.599.3201.50	1.599.3201.51
M 40 x 1,5	13	48	53	7 x 9	1.599.4001.50	1.599.4001.51	2 x 15	1.599.4003.50	1.599.4003.51
M 50 x 1,5	13	49	60		1.599.5099.50	1.599.5099.51			
M 63 x 1,5	14	49	65/68	6 x 12	1.599.6301.50	1.599.6301.51	3 x 18	1.599.6302.50	1.599.6302.51
PG 9	8	22	19	4 x 1,4	1.599.0900.00	1.599.0900.01	2 x 3	1.599.0901.00	1.599.0901.01
PG 11	8	25	22	2 x 4	1.599.1102.00	1.599.1102.01	3 x 3	1.599.1101.00	1.599.1101.01
PG 13,5	9	27	24	3 x 4	1.599.1302.00	1.599.1302.01	2 x 5	1.599.1303.00	1.599.1303.01
PG 16	10	28	27	4 x 4	1.599.1602.00	1.599.1602.01	6 x 4	1.599.1604.00	1.599.1604.01
PG 16	10	28	27	3 x 5,6	1.599.1606.00	1.599.1606.01	2 x 6	1.599.1605.00	1.599.1605.01
PG 21	11	31	33	4 x 6	1.599.2100.00	1.599.2100.01	3 x 7	1.599.2101.00	1.599.2101.01
PG 29	11	39	42	6 x 6,5	1.599.2900.00	1.599.2900.01	4 x 9	1.599.2901.00	1.599.2901.01
PG 36	13	48	53	7 x 9	1.599.3601.00	1.599.3601.01	2 x 15	1.599.3603.00	1.599.3603.01
PG 48	14	49	65	6 x 12	1.599.4801.00	1.599.4801.01	3 x 18	1.599.4802.00	1.599.4802.01
NPT 3/8"	15	22	19/22	4 x 1,4	1.599.3800.70	1.599.3800.71	2 x 3	1.599.3801.70	1.599.3801.71
NPT 1/2"	13	27	24	3 x 4	1.599.1202.70	1.599.1202.71	2 x 5	1.599.1203.70	1.599.1203.71
NPT 1/2" (16)	13	28	27	6 x 4	1.599.1220.70	1.599.1220.71	2 x 6	1.599.1221.70	1.599.1221.71
NPT 3/4"	14	31	33	4 x 6	1.599.3400.70	1.599.3400.71	3 x 7	1.599.3401.70	1.599.3401.71
NPT 1"	19	39	42	6 x 6,5	1.599.1000.70	1.599.1000.71	4 x 9	1.599.1001.70	1.599.1001.71
NPT 1 1/4"	16	39	42/46		1.599.5499.70	1.599.5499.71			
NPT 1 1/2"	20	48	53	5 x 9	1.599.6400.70	1.599.6400.71	7 x 9	1.599.6401.70	1.599.6401.71

Advice: The shown inserts are samples, more inserts upon request

Accessories see page 73 and 143

Dimensions and specifications may be changed without prior notice

HSK-K-FLAKA-Ex

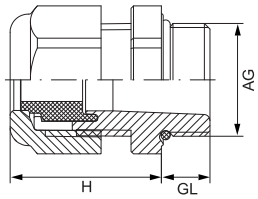
Metr., PG, NPT

II 2G 1D

Material	Polyamide V0 according to UL 94
Seal	Elastomer
Protection	IP 68
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F)
Colors	grey (RAL 7035), black (RAL 9005)
O-Ring	Buna-N

For the international certificates please see page 176 or our homepage www.hummel.com

Advice:
- Installation instruction see page 176



AG	GL mm	H mm	mm	w x h mm	Number grey	Number black	w x h mm	Number grey	Number black
M 20 x 1,5	9	28	27	12 x 7	1.589.2017.50	1.589.2017.51	14 x 6	1.589.2018.50	1.589.2018.51
M 25 x 1,5	11	31	33	14 x 6	1.589.2500.50	1.589.2500.51	14 x 7	1.589.2501.50	1.589.2501.51
M 32 x 1,5	11	39	42	22 x 8	1.589.3200.50	1.589.3200.51			
M 40 x 1,5	13	48	53	28,5 x 10	1.589.4000.50	1.589.4000.51	29 x 5,5	1.589.4001.50	1.589.4001.51
M 40 x 1,5	13	48	53	30,5 x 12	1.589.4002.50	1.589.4002.51	31 x 7,5	1.589.4003.50	1.589.4003.51
M 50 x 1,5	13	49	60	33,5 x 11,5	1.589.5000.50	1.589.5000.51			
PG 16	10	28	27	12 x 7	1.589.1601.00	1.589.1601.01	14 x 6	1.589.1602.00	1.589.1602.01
PG 21	11	31	33	14 x 6	1.589.2100.00	1.589.2100.01	14 x 7	1.589.2101.00	1.589.2101.01
PG 29	11	39	42	22 x 8	1.589.2900.00	1.589.2900.01			
PG 36	13	48	53	28,5 x 10	1.589.3600.00	1.589.3600.01	29 x 5,5	1.589.3601.00	1.589.3601.01
PG 36	13	48	53	30,5 x 12	1.589.3602.00	1.589.3602.01	31 x 7,5	1.589.3603.00	1.589.3603.01
PG 42	13	49	60	33,5 x 11,5	1.589.4200.00	1.589.4200.01			
NPT 1/2" (16)	13	28	27	12 x 7	1.589.1217.70	1.589.1217.71	14 x 6	1.589.1218.70	1.589.1218.71
NPT 3/4"	14	31	33	14 x 6	1.589.3400.70	1.589.3400.71			
NPT 1"	19	39	42	22 x 8	1.589.1000.70	1.589.1000.71			
NPT 1 1/4"	16	39	42/46	22 x 8	1.589.5400.70	1.589.5400.71			
NPT 1 1/2"	20	48	53	28,5 x 10	1.589.6400.70	1.589.6400.71	29 x 5,5	1.589.6401.70	1.589.6401.71
NPT 1 1/2"	20	48	53	30,5 x 12	1.589.6402.70	1.589.6402.71	31 x 7,5	1.589.6403.70	1.589.6403.71

Advice: The shown inserts are samples, more inserts upon request

Accessories see page 73 and 143

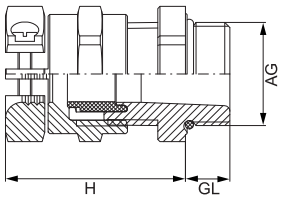
HSK Ex-e cable glands for special applications

HSK-K-MZ-Ex — Metr.

For the international certificates please see page 176 or our homepage www.hummel.com

Material	Polyamide-AL
Seal	Buna-N
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG) within the specified clamping range
O-Ring	Buna-N
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	6 – 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

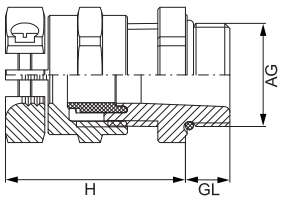
Accessories see page 73 and 143

HSK-K-MZ-Ex — PG

For the international certificates please see page 176 or our homepage www.hummel.com

Material	Polyamide-AL
Seal	Buna-N
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG) within the specified clamping range
O-Ring	Buna-N
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	6 – 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 73 and 143

Dimensions and specifications may be changed without prior notice

HSK-M-Multi-Ex

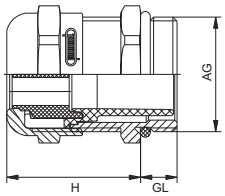
Metr., PG, NPT

II 2G 1D

For the international certificates please see page 176 or our homepage www.hummel.com

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)

Advice:
- Stainless steel on request



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

Advice: The shown inserts are samples, more inserts upon request

Accessories see page 73 and 143

HSK Ex-e cable glands for special applications

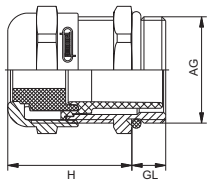
HSK-M-FLAKA-Ex — Metr.

For the international certificates please see page 176 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)

Advice:
- Stainless steel on request

ATEX 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		

Advice: The shown inserts are samples, more inserts upon request

Accessories see page 73 and 143

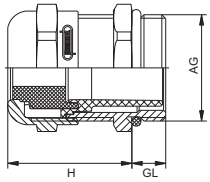
HSK-M-FLAKA-Ex — PG, NPT

For the international certificates please see page 176 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)

Advice:
- Stainless steel on request

ATEX 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		

Advice: The shown inserts are samples, more inserts upon request

Accessories see page 73 and 143

Dimensions and specifications may be changed without prior notice

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

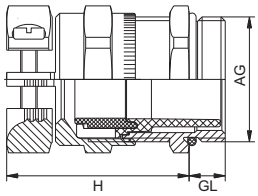
Metr.

II 2G 1D

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

For the international certificates please see page 176 or our homepage www.hummel.com

Advice:
- Elongated threads on request.



AG	⌀ mm	GL mm	H mm	mm	Number HSK-MZ-Ex -20 °C – 95 °C (-4 °F – 203 °F)	Number HSK-MZ-Ex -60 °C – 95 °C (-76 °F – 203 °F)	Number HSK-MZ-PVDF-Ex -20 °C – 130 °C (-4 °F – 266 °F)
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	6 – 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 73 and 143

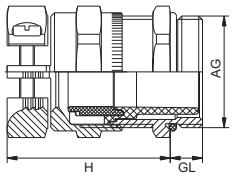
HSK Ex-e cable glands for special applications

HSK-MZ-Ex / HSK-MZ-PVDF-Ex — PG

Material	Nickel plated brass
Clamping insert	Polyamide / PVDF
Seal	Buna-N / FPM
O-Ring	Buna-N / FPM
Protection	IP 68 – 10 bar / IP 69K within the specified clamping range
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)

RoHS

ATEX II 2G 1D



For the international certificates please see page 176 or our homepage www.hummel.com

Advice:
- Elongated threads on request.

AG	mm	GL mm	H mm	mm	Number HSK-MZ-Ex -20 °C – 95 °C (-4 °F – 203 °F)	Number HSK-MZ-Ex -60 °C – 95 °C (-76 °F – 203 °F)	Number HSK-MZ-PVDF-Ex -20 °C – 130 °C (-4 °F – 266 °F)
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

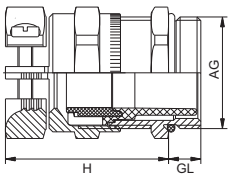
Accessories see page 73 and 143

HSK-MZ-Ex / HSK-MZ-PVDF-Ex — NPT

Material	Nickel plated brass
Clamping insert	Polyamide / PVDF
Seal	Buna-N / FPM
O-Ring	Buna-N / FPM
Protection	IP 68 – 10 bar / IP 69K within the specified clamping range
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)

RoHS

ATEX II 2G 1D



For the international certificates please see page 176 or our homepage www.hummel.com

Advice:
- Elongated threads on request.

AG	mm	GL mm	H mm	mm	Number HSK-MZ-Ex -20 °C – 95 °C (-4 °F – 203 °F)	Number HSK-MZ-Ex -60 °C – 95 °C (-76 °F – 203 °F)	Number HSK-MZ-PVDF-Ex -20 °C – 130 °C (-4 °F – 266 °F)
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 73 and 143

Dimensions and specifications may be changed without prior notice

Industrial cable glands

HSK-Ex-d standard 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 glands
- made of nickel plated brass
- made of nickel plated brass with additional strain 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.

Contact us:
E-Mail: info.et@hummel.com
Tel.: +49 (0) 76 66 / 91 110-0

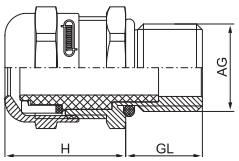
HSK-Ex-d standard cable glands

HSK-M-Ex-d / HSK-M-PVDF-Ex-d — Metr.

For the international certificates please see page 176 or our homepage www.hummel.com

Material	Nickel plated brass
Clamping insert	Polyamide / PVDF
Seal	FPM / FPM
O-Ring	FPM / FPM
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG) within the specified clamping range
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 (-76 °F – 221 °F)	Number HSK-M-PVDF-Ex-d -20 °C – 130 °C (-4 °F – 266 °F)
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

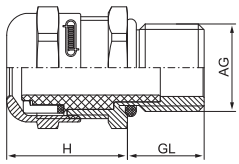
Accessories see page 73 and 143

HSK-M-Ex-d / HSK-M-PVDF-Ex-d — NPT

For the international certificates please see page 176 or our homepage www.hummel.com

Material	Nickel plated brass
Clamping insert	Polyamide / PVDF
Seal	FPM / FPM
O-Ring	FPM / FPM
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG) within the specified clamping range
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



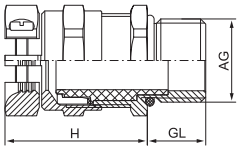
AG	⌀ mm	GL mm	H mm	mm	Number HSK-M-Ex-d -60 °C – 105 °C (-76 °F – 221 °F)	Number HSK-M-PVDF-Ex-d -20 °C – 130 °C (-4 °F – 266 °F)
NPT 3/8"	5 – 10	16	22	20	1.622.3800.70	1.634.3800.70
NPT 3/8"	3 – 7	16	22	20	1.622.3800.71	1.634.3800.71
NPT 1/2"	10 – 14	20	25	24	1.622.1200.70	1.634.1200.70
NPT 1/2"	7 – 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	

Accessories see page 73 and 143

Dimensions and specifications may be changed without prior notice

HSK-MZ-Ex-d — Metr.

II 2G 1D Ex d IIC



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

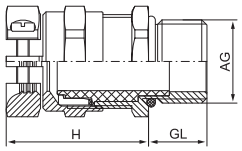
For the international certificates please see page 176 or our homepage www.hummel.com

AG	⌀ mm	GL mm	H mm	mm	Number HSK-MZ-Ex-d -60 °C – 105 °C (-76 °F – 221 °F)
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

Accessories see page 73 and 143

HSK-MZ-Ex-d — NPT

II 2G 1D Ex d IIC



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

For the international certificates please see page 176 or our homepage www.hummel.com

AG	⌀ mm	GL mm	H mm	mm	Number HSK-MZ-Ex-d -60 °C – 105 °C (-76 °F – 221 °F)
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

Accessories see page 73 and 143

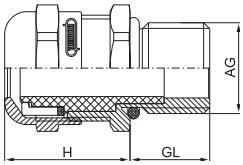
HSK-Ex-d standard cable glands

HSK-INOX-Ex-d / HSK-INOX-PVDF-Ex-d — Metr.

For the international certificates please see page 176 or our homepage www.hummel.com

Material	INOX (1.4404)
Clamping insert	Polyamide / PVDF
Seal	FPM / FPM
O-Ring	FPM / FPM
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG) within the specified clamping range
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 (-76 °F – 221 °F)	Number HSK-INOX-PVDF-Ex-d -20 °C – 130 °C (-4 °F – 266 °F)
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

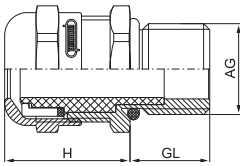
Accessories see page 73 and 143

HSK-INOX-Ex-d / HSK-INOX-PVDF-Ex-d — NPT

For the international certificates please see page 176 or our homepage www.hummel.com

Material	INOX (1.4404)
Clamping insert	Polyamide / PVDF
Seal	FPM / FPM
O-Ring	FPM / FPM
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG) within the specified clamping range
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 (-76 °F – 221 °F)	Number HSK-INOX-PVDF-Ex-d -20 °C – 130 °C (-4 °F – 266 °F)
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 73 and 143

Dimensions and specifications may be changed without prior notice

Industrial cable glands

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 147
- accessories made of stainless steel starting on page 151

www.hummel.com

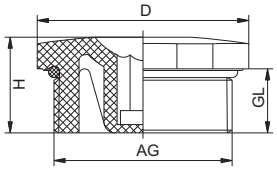
V-Ex

Metr.

Material	Polyamide, fiber reinforced
O-Ring	Buna-N
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-20 °C – 90 °C (-4 °F – 194 °F)
Colors	black (RAL 9005)

II 2G 1D

For the international certificates please see page 176 or our homepage www.hummel.com



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

Dimensions and specifications may be changed without prior notice

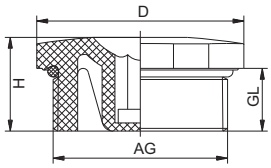
V-Ex

PG

II 2G 1D

Material	Polyamide, fiber reinforced
O-Ring	Buna-N
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-20 °C – 90 °C (-4 °F – 194 °F)
Colors	black (RAL 9005)

For the international certificates please see page 176 or our homepage www.hummel.com



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

HSK-V-Ex

Metr., PG, NPT

For the international certificates please see page 176 or our homepage www.hummel.com

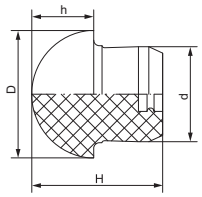
Material	Elastomer
Operating Temperature	-40 °C – 95 °C (-40 °F – 203 °F)
Colors	black (RAL 9005)

Advice:
- Elongated threads on request

RoHS

ATEX

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

HSK-V-Ex MZ variety

Metr., PG, NPT

For the international certificates please see page 176 or our homepage www.hummel.com

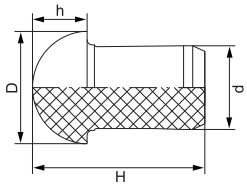
Material	Elastomer
Operating Temperature	-40 °C – 95 °C (-40 °F – 203 °F)
Colors	black (RAL 9005)

Advice:
- This plug is suitable in all HSK glands with additional strain relief

RoHS

ATEX

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
PG 42	M 50 x 1,5		43	38	42,5	12	1.296.4201.61
PG 48	M 63 x 1,5		49	44	42,5	12	1.296.4801.61

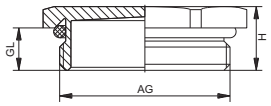
Dimensions and specifications may be changed without prior notice

V-Ms-Ex / V-Ms-FPM-Ex / V-Ms-VMQ-Ex — Metr.

II 2G 1D

Material	Nickel plated brass
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
V-Ms-Ex O-Ring	Buna-N
V-Ms-FPM-Ex O-Ring	FPM
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) (FPM), -60 °C – 180 °C (-76 °F – 356 °F) (VMQ)

For the international certificates please see page 176 or our homepage www.hummel.com



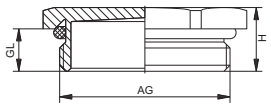
AG	GL mm	H mm	mm	Number V-Ms-Ex -20 °C – 95 °C (-4 °F – 203 °F)	Number V-Ms-FPM-Ex -20 °C – 180 °C (-4 °F – 356 °F)	Number V-Ms-VMQ-Ex -60 °C – 180 °C (-76 °F – 356 °F)
M 12 x 1,5	6,5	9,5	14	1.197.1200.50	1.198.1200.50	1.199.1200.50
M 16 x 1,5	6	9	19	1.197.1600.50	1.198.1600.50	1.199.1600.50
M 20 x 1,5	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

V-Ms-Ex / V-Ms-FPM-Ex / V-Ms-VMQ-Ex — PG

II 2G 1D

Material	Nickel plated brass
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
V-Ms-Ex O-Ring	Buna-N
V-Ms-FPM-Ex O-Ring	FPM
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) (FPM), -60 °C – 180 °C (-76 °F – 356 °F) (VMQ)

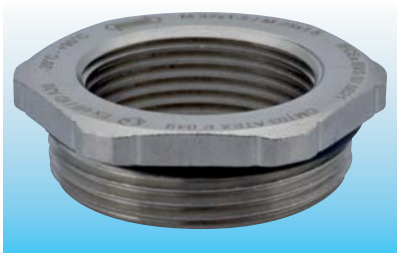
For the international certificates please see page 176 or our homepage www.hummel.com



AG	GL mm	H mm	mm	Number V-Ms-Ex -20 °C – 95 °C (-4 °F – 203 °F)	Number V-Ms-FPM-Ex -20 °C – 180 °C (-4 °F – 356 °F)	Number V-Ms-VMQ-Ex -60 °C – 180 °C (-76 °F – 356 °F)
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

Ex accessories

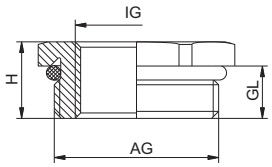
RSD-Ms-Ex — Metr.



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)

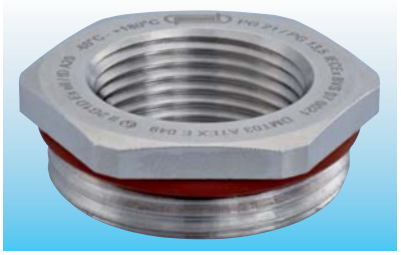
II 2G 1D

For the international certificates please see page 176 or our homepage www.hummel.com



AG	IG	GL mm	mm	Number Buna-N -20 °C – 95 °C (-4 °F – 203 °F)	Number VMQ -60 °C – 180 °C (-76 °F – 356 °F)
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
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

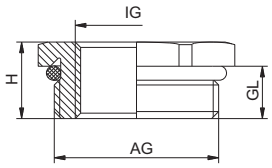
RSD-Ms-Ex — PG



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

For the international certificates please see page 176 or our homepage www.hummel.com



AG	IG	GL mm	H mm	mm	Number Buna-N -20 °C – 95 °C (-4 °F – 203 °F)	Number VMQ -60 °C – 180 °C (-76 °F – 356 °F)
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
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

Dimensions and specifications may be changed without prior notice

V-Ms-Ex-d

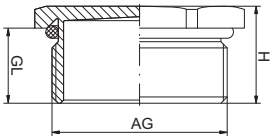
Metr., NPT

II 2G 1D Ex d IIC

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

For the international certificates please see page 176 or our homepage www.hummel.com

Ex-d
Ex-e



AG	GL mm	H mm	mm	Number without O-Ring	Number Buna-N -20 °C – 95 °C (-4 °F – 203 °F)	Number FPM -20 °C – 180 °C (-4 °F – 356 °F)	Number VMQ -60 °C – 180 °C (-76 °F – 356 °F)
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			

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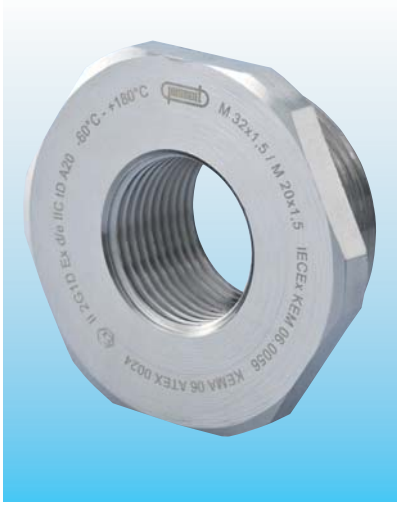
RSD-Ms-Ex-d

Metr.



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 Ex d IIC

Ex-d
Ex-e

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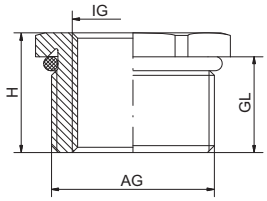
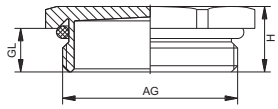


AG	IG	GL mm	H mm	mm	Number Buna-N -20 °C – 95 °C (-4 °F – 203 °F)	Number VMQ -60 °C – 180 °C (-76 °F – 356 °F)
M 16 x 1,5	M 12 x 1,5	16	19	19	1.878.1612.50	1.879.1612.50
M 20 x 1,5	M 12 x 1,5	16	19,5	22	1.878.2012.50	1.879.2012.50
M 20 x 1,5	M 16 x 1,5	16	19,5	22	1.878.2016.50	1.879.2016.50
M 25 x 1,5	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

Dimensions and specifications may be changed without prior notice

V-INOX-Ex — Metr.

II 2G 1D



Material	INOX (1.4305)
Protection	IP 68 - 10 bar / IP 69K (NEMA 6 – 150 PSIG)
V-INOX-Ex O-Ring	Buna-N
V-INOX-FPM-Ex O-Ring	FPM
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) (FPM), -60 °C – 180 °C (-76 °F – 356 °F) (VMQ)

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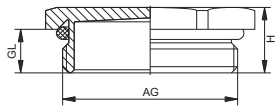
AG	GL mm	H mm	mm	Number V-INOX-Ex -20 °C – 95 °C (-4 °F – 203 °F)	Number V-INOX-FPM-Ex -20 °C – 180 °C (-4 °F – 356 °F)	Number V-INOX-VMQ-Ex -60 °C – 180 °C (-76 °F – 356 °F)
M 12 x 1,5	6,5	9,5	14	1.192.1200.50	1.193.1200.50	1.194.1200.50
M 16 x 1,5	6	9	19	1.192.1600.50	1.193.1600.50	1.194.1600.50
M 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

V-INOX-Ex — PG

II 2G 1D



Material	INOX (1.4305)
Protection	IP 68 - 10 bar / IP 69K (NEMA 6 – 150 PSIG)
V-INOX-Ex O-Ring	Buna-N
V-INOX-FPM-Ex O-Ring	FPM
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) (FPM), -60 °C – 180 °C (-76 °F – 356 °F) (VMQ)

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AG	GL mm	H mm	mm	Number V-INOX-Ex -20 °C – 95 °C (-4 °F – 203 °F)	Number V-INOX-FPM-Ex -20 °C – 180 °C (-4 °F – 356 °F)	Number V-INOX-VMQ-Ex -60 °C – 180 °C (-76 °F – 356 °F)
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

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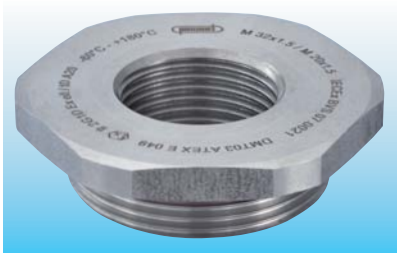
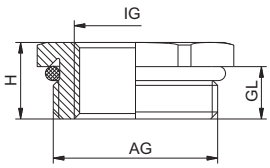
RSD-INOX-Ex — Metr.



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



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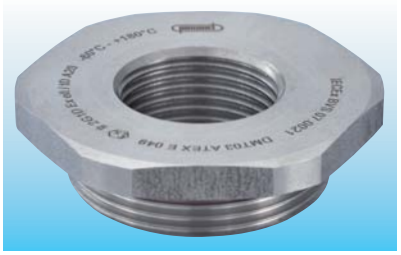
AG	IG	GL mm	mm	Number Buna-N -20 °C – 95 °C (-4 °F – 203 °F)	Number VMQ -60 °C – 180 °C (-76 °F – 356 °F)
M 16 x 1,5	M 12 x 1,5	5	17	1.098.1612.50	1.099.1612.50
M 20 x 1,5	M 12 x 1,5	6	22	1.098.2012.50	1.099.2012.50
M 20 x 1,5	M 16 x 1,5	6	22	1.098.2016.50	1.099.2016.50
M 25 x 1,5	M 16 x 1,5	7	27	1.098.2516.50	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

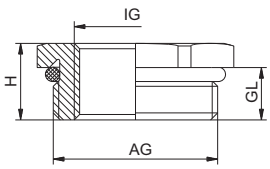
AG	IG	GL mm	mm	Number Buna-N -20 °C – 95 °C (-4 °F – 203 °F)	Number VMQ -60 °C – 180 °C (-76 °F – 356 °F)
M 50 x 1,5	M 32 x 1,5	9	55	1.098.5032.50	1.099.5032.50
M 50 x 1,5	M 40 x 1,5	9	55	1.098.5040.50	1.099.5040.50
M 63 x 1,5	M 32 x 1,5	10	65	1.098.6332.50	1.099.6332.50
M 63 x 1,5	M 40 x 1,5	10	65	1.098.6340.50	1.099.6340.50
M 63 x 1,5	M 50 x 1,5	10	65	1.098.6350.50	1.099.6350.50

RSD-INOX-Ex — PG



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



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AG	IG	GL mm	H mm	mm	Number Buna-N -20 °C – 95 °C (-4 °F – 203 °F)	Number VMQ -60 °C – 180 °C (-76 °F – 356 °F)
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 mm	GL mm	mm	Number Buna-N -20 °C – 95 °C (-4 °F – 203 °F)	Number VMQ -60 °C – 180 °C (-76 °F – 356 °F)
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

Dimensions and specifications may be changed without prior notice

V-INOX-Ex-d

Metr., NPT

II 2G 1D Ex d IIC

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

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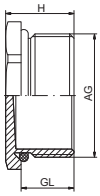
Ex-d
Ex-e



AG	GL mm	H mm	mm	Number without O-Ring	Number Buna-N -20 °C – 95 °C (-4 °F – 203 °F)	Number FPM -20 °C – 180 °C (-4 °F – 356 °F)	Number VMQ -60 °C – 180 °C (-76 °F – 356 °F)
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			

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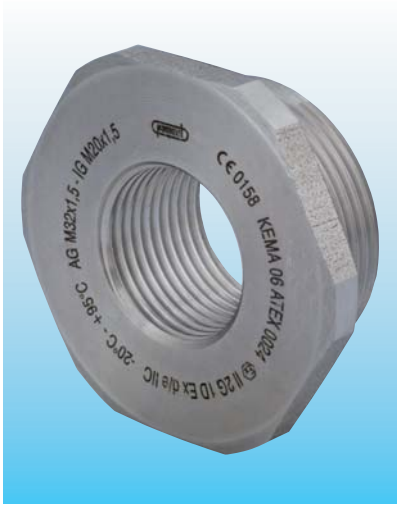
RSD-INOX-Ex-d

Metr.



Material	INOX (1.4404)
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 Ex d IIC

Ex-d
Ex-e

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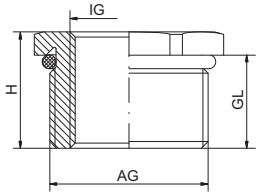

AG	IG	GL mm	H mm	mm	Number Buna-N -20 °C – 95 °C (-4 °F – 203 °F)	Number VMQ -60 °C – 180 °C (-76 °F – 356 °F)
M 16 x 1,5	M 12 x 1,5	16	19	19	1.898.1612.50	1.899.1612.50
M 20 x 1,5	M 12 x 1,5	16	19,5	22	1.898.2012.50	1.899.2012.50
M 20 x 1,5	M 16 x 1,5	16	19,5	22	1.898.2016.50	1.899.2016.50
M 25 x 1,5	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

Dimensions and specifications may be changed without prior notice

Corrugated conduit systems

Snapflex Industry standard metric

Conduits of the Snapflex series are based on metric dimensions and fulfil current and future requirements.

You can find in this chapter:

- metric conduits
- conduit glands
- combined conduit/cable glands
- T and Y-shaped distributors for metric conduits
- snap elbow systems for metric conduits
- Nylon mounting brackets for metric conduits

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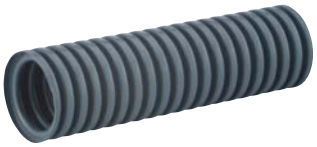
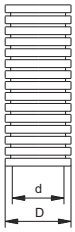
Snapflex

Material	Polyamide
Operating Temperature	-30 °C – 100 °C (-22 °F – 212 °F)
Colors	grey (RAL 7035), black (RAL 9005)

Advice:
- PP on request





Size D	d mm	D mm	Number grey	Number black
16	10,7	16	1.510.1600.50	1.510.1601.50
20	14,1	20	1.510.2000.50	1.510.2001.50
25	18,3	25	1.510.2500.50	1.510.2501.50
32	24,3	32	1.510.3200.50	1.510.3201.50
40	31,2	40	1.510.4000.50	1.510.4001.50
50	39,6	50	1.510.5000.50	1.510.5001.50
63	50,6	63	1.510.6300.50	1.510.6301.50

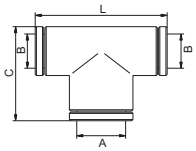
Dimensions and specifications may be changed without prior notice

Snapsplit

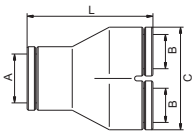
RoHS

Material	Polyamide
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)
Protection	IP 42
Colors	black (RAL 9005)

T-Connector



Y-Connector



A mm	B mm	C mm	L mm	Number
T-Connector				
20	16	43	60	1.518.2001.50
25	20	49	63	1.518.2501.50
32	25	57	73	1.518.3201.50
40	32	65	85	1.518.4001.50
Y-Connector				
20	16	52	52	1.519.2001.50
25	20	62	62	1.519.2501.50
32	25	72	72	1.519.3201.50
40	32	86	86	1.519.4001.50

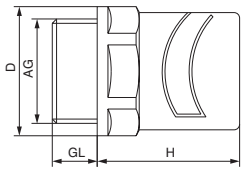
Snapflex Industry standard metric

SM-N

Metr.

Material	Polyamide
Protection	IP 54, with O-Ring with fixed conduit mounting IP 65
Operating Temperature	-20 °C – 80 °C (-4 °F – 176 °F)
Colors	grey (RAL 7031), black (RAL 9005)

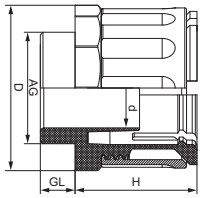
Advice:
- International certificat under development



AG	GL mm	H mm	D mm	mm	fits to Snapflex	Number grey	Number black
M 16 x 1,5	8	23	23	17	16	1.514.1600.50	1.514.1601.50
M 20 x 1,5	9	28	28,6	24	20	1.514.2000.50	1.514.2001.50
M 25 x 1,5	11	32	34	35	25	1.514.2500.50	1.514.2501.50
M 32 x 1,5	11	35	41	39	32	1.514.3200.50	1.514.3201.50
M 40 x 1,5	13	40	51	47	40	1.514.4000.50	1.514.4001.50
M 50 x 1,5	14	48	62	57	50	1.514.5000.50	1.514.5001.50

Dimensions and specifications may be changed without prior notice

Snapturn — Metr.

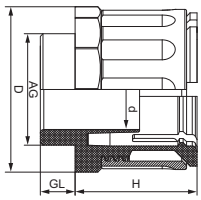


Material	Polyamide
Operating Temperature	-20 °C – 80 °C
Protection	IP 42
Colors	black (RAL 9005)

Advice:
- International certificat under development

AG	d mm	GL mm	D mm	H mm	mm	fits to Snapflex	Number
M 16 x 1,5	9,5	9	25,6	29,5	25	16	1.515.1601.50
M 20 x 1,5	12,5	9	31	33	30	20	1.515.2001.50
M 25 x 1,5	17	11	40,2	36,5	39	25	1.515.2501.50
M 32 x 1,5	22,5	13	47,5	38,5	47,5	32	1.515.3201.50
M 40 x 1,5	29	13	56,5	41	55	40	1.515.4001.50
M 50 x 1,5	36,5	13,5	67	43	65	50	1.515.5001.50

Snapturn-M — Metr.



Material	Polyamide, Brass
Operating Temperature	-20 °C – 80 °C
Protection	IP 42
Colors	black (RAL 9005)

Advice:
- International certificat under development
- NPT on request

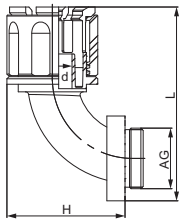
AG	d mm	GL mm	D mm	H mm	mm	fits to Snapflex	Number
M 16 x 1,5	9,5	6	25,6	29,5	25	16	1.515.1681.50
M 20 x 1,5	12,5	6	31	33	30	20	1.515.2081.50
M 25 x 1,5	17	6,5	40,2	36,5	39	25	1.515.2581.50
M 32 x 1,5	22,5	8	47,5	38,5	47,5	32	1.515.3281.50
M 40 x 1,5	29	8	56,5	41	55	40	1.515.4081.50
M 50 x 1,5	36,5	10	67	43	65	50	1.515.5081.50

Snapflex Industrie Standard metrisch

Snapturn 90° — Metr.

Material	Polyamide
Operating Temperature	-20 °C – 80 °C
Protection	IP 42
Colors	black (RAL 9005)

Advice:
- International certificat under development

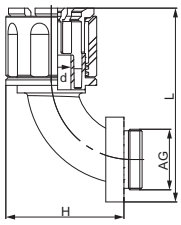


AG	d mm	GL mm	H mm	L mm	mm	fits to Snapflex	Number
M 16 x 1,5	9,5	9,5	30	57	12	16	1.525.1601.50
M 20 x 1,5	12,5	9,5	35,5	64	16	20	1.525.2001.50
M 25 x 1,5	17	10	45	71,5	20	25	1.525.2501.50
M 32 x 1,5	22,5	13	51	87,5	27	32	1.525.3201.50
M 40 x 1,5	29	13	65,4	97,2	32	40	1.525.4001.50
M 50 x 1,5	36,5	13,5	72	106,5	41	50	1.525.5001.50

Snapturn-M 90° — Metr.

Material	Polyamide, Brass
Operating Temperature	-20 °C – 80 °C
Protection	IP 42
Colors	black (RAL 9005)

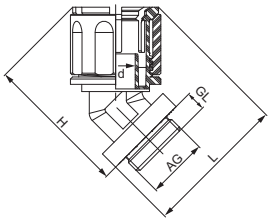
Advice:
- International certificat under development
- NPT on request



AG	d mm	GL mm	H mm	L mm	mm	fits to Snapflex	Number
M 16 x 1,5	9,5	6	33,5	57	12	16	1.525.1681.50
M 20 x 1,5	12,5	6	39	64	16	20	1.525.2081.50
M 25 x 1,5	17	6,5	48,5	71,5	20	25	1.525.2581.50
M 32 x 1,5	22,5	8	54,5	87,5	27	32	1.525.3281.50
M 40 x 1,5	29	8	68,5	97,2	32	40	1.525.4081.50
M 50 x 1,5	36,5	9	75,5	106,5	41	50	1.525.5081.50

Technische Änderungen vorbehalten

Snapturn 135° — Metr.

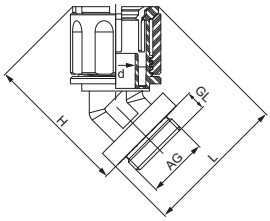


Material	Polyamide
Operating Temperature	-20 °C – 80 °C
Protection	IP 42
Colors	black (RAL 9005)

Advice:
- International certificat under development

AG	d mm	GL mm	H mm	L mm	mm	fits to Snapflex	Number
M 16 x 1,5	9,5	9,5	38,9	40,4	12	16	1.526.1601.50
M 20 x 1,5	12,5	9,5	44,7	48,2	16	20	1.526.2001.50
M 25 x 1,5	17	10	53,9	57,4	20	25	1.526.2501.50
M 32 x 1,5	22,5	13	60,8	68,8	27	32	1.526.3201.50
M 40 x 1,5	29	13	69,5	79,5	32	40	1.526.4001.50
M 50 x 1,5	36,5	13,5	78,5	89,5	41	50	1.526.5001.50

Snapturn-M 135° — Metr.



Material	Polyamide, Brass
Operating Temperature	-20 °C – 80 °C
Protection	IP 42
Colors	black (RAL 9005)

Advice:
- International certificat under development
- NPT on request

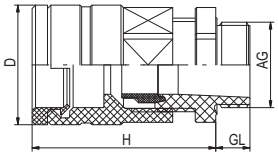
AG	d mm	GL mm	H mm	L mm	mm	fits to Snapflex	Number
M 16 x 1,5	9,5	6	42,4	41,4	12	16	1.526.1681.50
M 20 x 1,5	12,5	6	48,2	48,2	16	20	1.526.2081.50
M 25 x 1,5	17	6,5	57,4	57,9	20	25	1.526.2581.50
M 32 x 1,5	22,5	8	64,3	68,8	27	32	1.526.3281.50
M 40 x 1,5	29	8	73	79,5	32	40	1.526.4081.50
M 50 x 1,5	36,5	9	82	89,5	41	50	1.526.5081.50

Snapflex Industry standard metric

Snapclic-DUO-PA — Metr.

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

Advice:
- NPT and elongated thread upon request

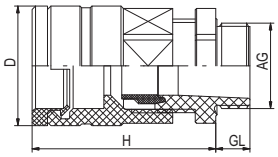


AG	⌀ mm	GL mm	H mm	D mm	mm	fits to Snapflex	Number
M 16 x 1,5	5 – 10	8	42	25	22	16	1.542.1601.50
M 16 x 1,5	3 – 7	8	42	25	22	16	1.542.1601.51
M 20 x 1,5	10 – 14	10	46	30	27	20	1.542.2001.50
M 20 x 1,5	7 – 12	10	46	30	27	20	1.542.2001.51
M 25 x 1,5	13 – 18	11	50	35	33	25	1.542.2501.50
M 25 x 1,5	9 – 16	11	50	35	33	25	1.542.2501.51
M 32 x 1,5	18 – 24	11	60	42	42	32	1.542.3201.50
M 32 x 1,5	13 – 20	11	60	42	42	32	1.542.3201.51
M 40 x 1,5	22 – 31	13	60	50	53	40	1.542.4001.50
M 40 x 1,5	20 – 26	13	60	50	53	40	1.542.4001.51

Snapclic-DUO-PA — PG

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

Advice:
- NPT and elongated thread upon request

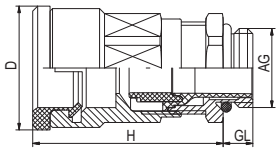


AG	⌀ mm	GL mm	H mm	D mm	mm	fits to Snapflex	Number
PG 11	5 – 10	8	42	25	22	16	1.543.1116.14
PG 11	3 – 7	8	42	25	22	16	1.543.1116.15
PG 16	10 – 14	10	46	30	27	20	1.543.1620.14
PG 16	7 – 12	10	46	30	27	20	1.543.1620.15
PG 21	13 – 16	11	50	35	33	25	1.543.2125.14
PG 21	9 – 16	11	50	35	33	25	1.543.2125.15
PG 29	18 – 22	11	60	42	42	32	1.543.2932.14
PG 29	13 – 20	11	60	42	42	32	1.543.2932.15
PG 36	22 – 31	13	60	50	53	40	1.543.3640.14
PG 36	20 – 26	13	60	50	53	40	1.543.3640.15

Dimensions and specifications may be changed without prior notice

Snapclic-DUO-Ms — Metr.

RoHS



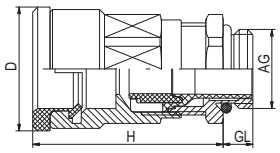
Material	Nickel plated brass
Clamping insert	Polyamide
Seal	NBR
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)

Advice:
- NPT and elongated thread upon request
- Also available as EMC version!
- DN Corrugated Conduit upon request!

AG	⌀ mm	GL mm	H mm	D mm	mm	fits to Snapflex	Number
M 16 x 1,5	5–10	6	38,5	25	24/20	16	1.547.1601.50
M 16 x 1,5	3–7	6	38,5	25	24/20	16	1.547.1601.51
M 20 x 1,5	10–14	6	41,5	30	28/24	20	1.547.2001.50
M 20 x 1,5	7–12	6	41,5	30	28/24	20	1.547.2001.51
M 25 x 1,5	13–18	7	44,5	35	34/30	25	1.547.2501.50
M 25 x 1,5	9–16	7	44,5	35	34/30	25	1.547.2501.51
M 32 x 1,5	18–24	8	52,5	42	40	32	1.547.3201.50
M 32 x 1,5	13–20	8	52,5	42	40	32	1.547.3201.51
M 40 x 1,5	22–31	8	59	50	50	40	1.547.4001.50
M 40 x 1,5	20–26	8	59	50	50	40	1.547.4001.51

Snapclic-DUO-Ms — PG

RoHS



Material	Nickel plated brass
Clamping insert	Polyamide
Seal	NBR
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)

Advice:
- NPT and elongated thread upon request
- Also available as EMC version!
- DN Corrugated Conduit upon request!

AG	⌀ mm	GL mm	H mm	D mm	mm	fits to Snapflex	Number
PG 11	5–10	6	38,5	25	24/20	16	1.548.1116.01
PG 11	3–7	6	38,5	25	24/20	16	1.548.1116.15
PG 16	10–14	6	41,5	30	28/24	20	1.548.1620.01
PG 16	7–12	6	41,5	30	28/24	20	1.548.1620.15
PG 21	13–16	7	44,5	35	34/30	25	1.548.2125.01
PG 21	9–16	7	44,5	35	34/30	25	1.548.2125.15
PG 29	18–22	8	52,5	42	40	32	1.548.2932.01
PG 29	13–20	8	52,5	42	40	32	1.548.2932.15
PG 36	22–28	8	59	50	50	40	1.548.3640.01
PG 36	20–26	8	59	50	50	40	1.548.3640.15

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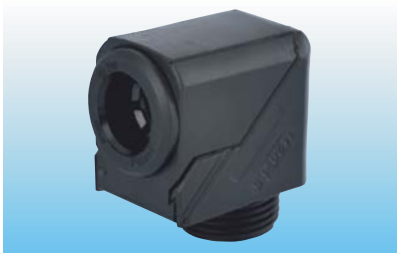
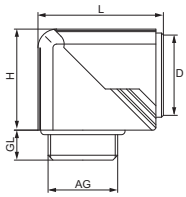
Snapclic-PA-W — Metr.



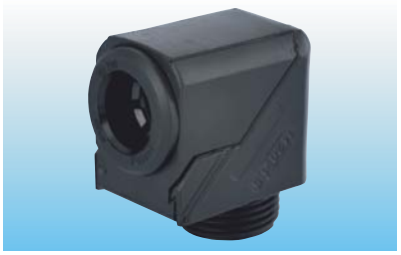
Material	Polyamide
O-Ring	NBR
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)
Colors	black (RAL 9005)

Advice:
- NPT thread on request



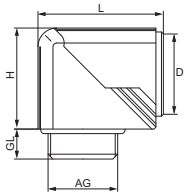
AG	GL mm	H mm	L mm	D mm	mm	fits to Snapflex	Number
M 25 x 1,5	11	40	53	30	33	20	1.552.2520.50
M 25 x 1,5	11	40	53	35	33	25	1.552.2525.50
M 32 x 1,5	11	51,5	64,5	42	42	32	1.552.3200.50

Snapclic-PA-W — PG, NPT



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

Advice:
- NPT thread on request

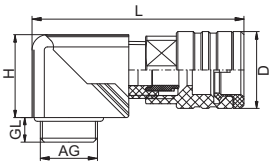


AG	GL mm	H mm	L mm	D mm	mm	fits to Snapflex	Number
PG 16	10	32,5	41,5	25	27	16	1.552.1616.14
PG 21	11	40	53	30	33	20	1.552.2120.14
PG 21	11	40	53,5	35	33	25	1.552.2125.14
PG 29	11	51,5	64,5	42	42	32	1.552.2932.14
NPT 3/4"	13	40	53	30	33	20	1.552.3420.70
NPT 3/4"	13	40	53,5	35	33	25	1.552.3425.70
NPT 1"	19	51,5	64,5	42	42	32	1.552.1032.70

Dimensions and specifications may be changed without prior notice

Snapclic-DUO-PA-W — Metr.

RoHS



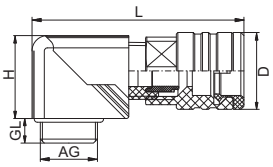
Material	Polyamide
Seal	NBR
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)
Colors	black (RAL 9005)

Advice:
- NPT thread on request
- DN Corrugated Conduit upon request

AG	⌀ mm	GL mm	H mm	L mm	D mm	mm	fits to Snapflex	Number
M 25 x 1,5	13 – 18	11	40	93	35	33	25	1.553.2501.50
M 25 x 1,5	9 – 16	11	40	93	35	33	25	1.553.2501.51
M 32 x 1,5	18 – 22	11	51,5	110,5	42	42	32	1.553.3201.50
M 32 x 1,5	13 – 20	11	51,5	110,5	42	42	32	1.553.3201.51

Snapclic-DUO-PA-W — PG

RoHS



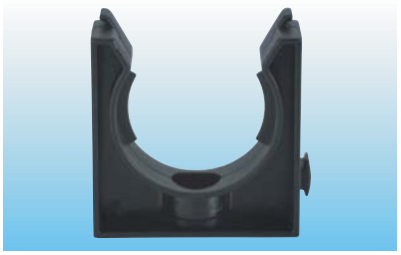
Material	Polyamide
Seal	NBR
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)
Colors	black (RAL 9005)

Advice:
- NPT thread on request
- DN Corrugated Conduit upon request

AG	⌀ mm	GL mm	H mm	L mm	D mm	mm	fits to Snapflex	Number
PG 11	5 – 10	8	27	66,5	25	22	16	1.554.1116.14
PG 11	3 – 7	8	27	66,5	25	22	16	1.554.1116.15
PG 16	10 – 14	10	32,5	78	30	27	20	1.554.1620.14
PG 16	7 – 12	10	32,5	78	30	27	20	1.554.1620.15
PG 21	13 – 16	11	40	93	35	33	25	1.554.2125.14
PG 21	9 – 16	11	40	93	35	33	25	1.554.2125.15
PG 29	18 – 22	11	51,5	110,5	42	42	32	1.554.2932.14
PG 29	13 – 20	11	51,5	110,5	42	42	32	1.554.2932.15

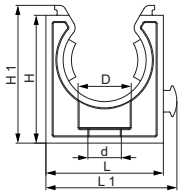
Snapflex Industry standard metric

Snapclip



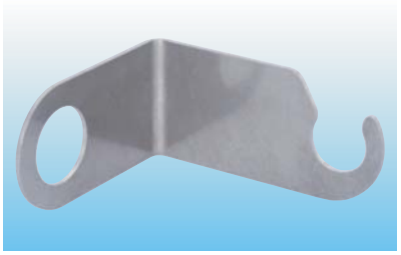
Material	Polyamide
Operating Temperature	-30 °C – 100 °C (-22 °F – 212 °F)
Colors	grey (RAL 7031), black (RAL 9005)

Advice:
- PP on request

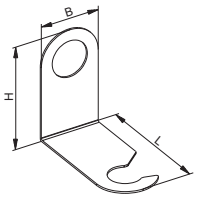


fits to Snapflex	H mm	H1 mm	L mm	L1 mm	D mm	d mm	Number grey	Number black
16	27	29,5	21	27	10	5,3	1.730.1600.50	1.730.1601.50
20	31	33,5	28	31	10	5,3	1.730.2000.50	1.730.2001.50
25	36	36	34	37	10	5,3	1.730.2500.50	1.730.2501.50
32	43	45,5	42	42,5	10	5,3	1.730.3200.50	1.730.3201.50
40	51	53,5	51	52	10	5,3	1.730.4000.50	1.730.4001.50
50	61	63,5	62	65	10	5,3	1.730.5000.50	1.730.5001.50
63	73	77	76	78	10	5,3	1.730.6300.50	1.730.6301.50

Snapform



Material	Special steel



fits to Snapflex	H mm	L mm	B mm	Number
16	50	66	30	1.318.1600.04
20	60	75	34	1.318.2000.04
25	65	80	39	1.318.2500.04
32	75	90	46	1.318.3200.04
40	95	105	55	1.318.4000.04
50	115	125	66	1.318.5000.04
63	145	165	82	1.318.6300.04

Dimensions and specifications may be changed without prior notice

Corrugated conduit systems

Snapflex-Ex metric

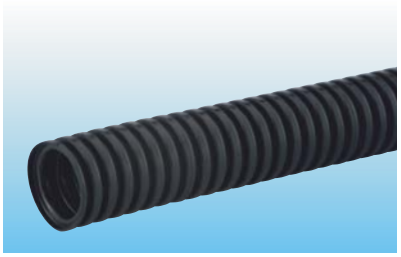
Conduits of the Snapflex-Ex series are based on metric dimensions. They were designed for standard applications in hazardous locations type "e" according to EN 60079-0 and EN 60079-7.

You can find in this chapter:

- ATEX certified conduits
- ATEX certified combined conduit / cable glands

www.hummel.com

Snapflex-Ex

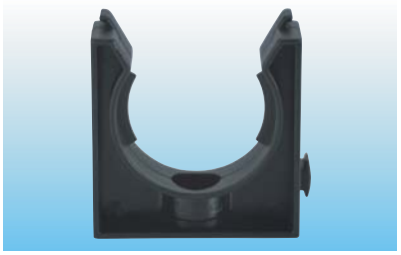


Material	Polyamide
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F)
Colors	black (RAL 9005)

Advice:
- For the international certificates please see page 176 or our homepage www.hummel.com

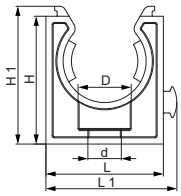
Size D	d mm	D mm	Number black
16	10,7	16	1.560.1601.50
20	14,1	20	1.560.2001.50
25	18,3	25	1.560.2501.50
32	24,3	32	1.560.3201.50
40	31,2	40	1.560.4001.50

Snapclip-Ex



Material	Polyamide
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F)
Colors	black (RAL 9005)

Advice:
- For the international certificates please see page 176 or our homepage www.hummel.com



Size D	H mm	H1 mm	L mm	L1 mm	D mm	d mm	Number black
16	27	29,5	21	27	10	5,3	1.731.1601.50
20	31	33,5	28	37	10	5,3	1.731.2001.50
25	36	36	34	37	10	5,3	1.731.2501.50
32	43	45,5	42	42,5	10	5,3	1.731.3201.50
40	51	53,5	51	52	10	5,3	1.731.4001.50

Dimensions and specifications may be changed without prior notice

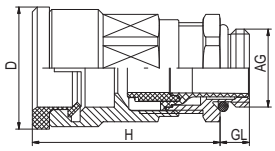
Snapclic-DUO-Ms-Ex

Metr.

II 2G 1D

Material	Nickel plated brass
Clamping insert	Polyamide
Seal	NBR
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F)

Advice:
- NPT and elongated thread on request
- For the international certificates please see page 176 or our homepage www.hummel.com



AG	⌀ mm	GL mm	H mm	D mm	mm	fits to Snapflex-Ex	Number
M 16 x 1,5	5 – 10	6	38,5	25	24/20	16	1.566.1601.50
M 16 x 1,5	3 – 7	6	38,5	25	24/20	16	1.566.1601.51
M 20 x 1,5	10 – 14	6	41,5	30	28/24	20	1.566.2001.50
M 20 x 1,5	7 – 12	6	41,5	30	28/24	20	1.566.2001.51
M 25 x 1,5	13 – 18	7	44,5	35	34/30	25	1.566.2501.50
M 25 x 1,5	9 – 16	7	44,5	35	34/30	25	1.566.2501.51
M 32 x 1,5	18 – 24	8	52,5	42	40	32	1.566.3201.50
M 32 x 1,5	13 – 20	8	52,5	42	40	32	1.566.3201.51
M 40 x 1,5	22 – 31	8	59	50	50	40	1.566.4001.50
M 40 x 1,5	20 – 26	8	59	50	50	40	1.566.4001.51

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Snapclic-DUO-Ms-Ex

PG

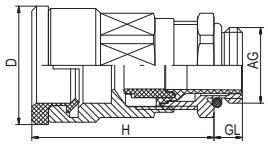
Material	Nickel plated brass
Clamping insert	Polyamide
Seal	NBR
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F)

CE ATEX Ex

RoHS

II 2G 1D

Advice:
- NPT and elongated thread on request
- For the international certificates
  please see page 176 or our homepage www.hummel.com



AG	⌀ mm	GL mm	H mm	D mm	mm	fits to Snapflex-Ex	Number
PG 11	5–10	6	38,5	25	24/20	16	1.567.1116.01
PG 11	3–7	6	38,5	25	24/20	16	1.567.1116.15
PG 16	10–14	6	41,5	30	28/24	20	1.567.1620.01
PG 16	7–12	6	41,5	30	28/24	20	1.567.1620.15
PG 21	13–16	7	44,5	35	34/30	25	1.567.2125.01
PG 21	9–16	7	44,5	35	34/30	25	1.567.2125.15
PG 29	18–22	8	52,5	42	40	32	1.567.2932.01
PG 29	13–20	8	52,5	42	40	32	1.567.2932.15
PG 36	22–28	8	59	50	50	40	1.567.3640.01
PG 36	20–26	8	59	50	50	40	1.567.3640.15

Dimensions and specifications may be changed without prior notice

Corrugated conduit systems

DN conduits

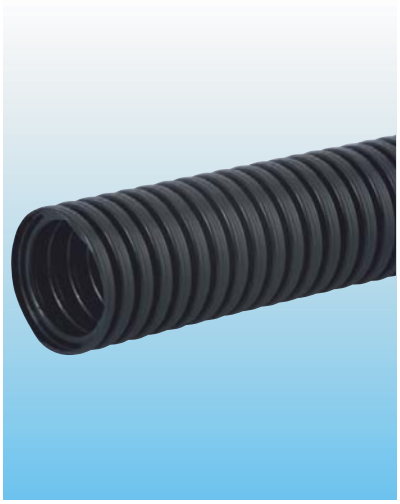
You can find in this chapter:

- DN conduit made of polyamide
- SM fittings for fast mounting of DN conduit
- snap elbow systems for DN conduit

www.hummel.com

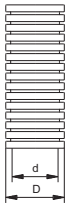
SM-WS-PA

DN



Material	Polyamide
Operating Temperature	-40 °C – 110 °C (-40 °F – 230 °F)
Colors	grey (RAL 7031), black (RAL 9005)

RoHS



Size DN	Typ	d mm	D mm	Number grey	Number black
10	PA	10	13	1.510.0900.14	1.510.0901.14
12	PA	12	15,5	1.510.1100.14	1.510.1101.14
14	PA	14	18,5	1.510.1300.14	1.510.1301.14
17	PA	16,5	21	1.510.1600.14	1.510.1601.14
23	PA	22,5	28,5	1.510.2100.14	1.510.2101.14
29	PA	28,5	34,5	1.510.2900.14	1.510.2901.14
37	PA	36	42	1.510.3600.14	1.510.3601.14
50	PA	47,5	54	1.510.4800.14	1.510.4801.14

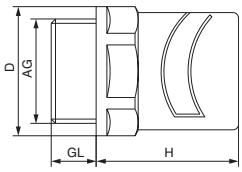
Dimensions and specifications may be changed without prior notice

SM-N

Metr., PG, NPT

RoHS

Material	Polyamide
Protection	IP 54, with O-Ring with fixed conduit mounting IP 65
Operating Temperature	-20 °C – 80 °C (-4 °F – 176 °F)
Colors	grey (RAL 7031), black (RAL 9005)



AG	GL mm	H mm	D mm	mm	DN	Number grey	Number black
M 16 x 1,5	8	23	20	17	10	1.511.1600.50	1.511.1601.50
M 20 x 1,5	9	28	26,5	24	14	1.511.2000.50	1.511.2001.50
M 25 x 1,5	11	32	38,5	35	23	1.511.2500.50	1.511.2501.50
M 32 x 1,5	11	35	46	42	29	1.511.3200.50	1.511.3201.50
PG 9	8	23	19	17	10	1.511.0900.14	1.511.0901.14
PG 11	8	25	23	21	12	1.511.1100.14	1.511.1101.14
PG 13,5	9	28	26,5	24	14	1.511.1300.14	1.511.1301.14
PG 16	10	29	30	27	17	1.511.1600.14	1.511.1601.14
PG 21	11	32	38,5	35	23	1.511.2100.14	1.511.2101.14
PG 29	11	35	46	42	29	1.511.2900.14	1.511.2901.14
PG 36	13	41	54,5	50	37	1.511.3600.14	1.511.3601.14
PG 48	14	46	70	64	50	1.511.4800.14	1.511.4801.14
NPT 3/8"	15	23	19	17	10	1.511.3800.70	1.511.3801.70
NPT 1/2"	13	29	30	27	17	1.511.1216.70	1.511.1217.70
NPT 3/4"	13	32	38,5	35	23	1.511.3400.70	1.511.3401.70
NPT 1"	15	35	46	42	29	1.511.1000.70	1.511.1001.70

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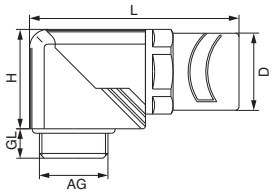
SM-W

Metr., PG, NPT

Material	Polyamide
O-Ring	NBR
Protection	IP 54 with fixed conduit mounting IP 65
Operating Temperature	-20 °C – 80 °C (-4 °F – 176 °F)
Colors	black (RAL 9005)



AG	GL mm	H mm	L mm	mm	D mm	fits to SM-Conduit DN	Number
M 16 x 1,5	8	23	43	19	20	10	1.513.1601.50
M 20 x 1,5	9	30,5	52	24	26,5	14	1.513.2001.50
M 25 x 1,5	11	40	70	33	38,5	23	1.513.2501.50
M 32 x 1,5	11	51,5	83	42	46	29	1.513.3201.50
PG 9	8	23	43	19	19	10	1.513.0901.14
PG 11	8	27	48	22	23	12	1.513.1101.14
PG 13,5	9	30,5	52	24	26,5	14	1.513.1301.14
PG 16	10	32,5	56	27	30	17	1.513.1601.14
PG 21	11	40	70	33	38,5	23	1.513.2101.14
PG 29	11	51,5	83	42	46	29	1.513.2901.14
NPT 3/8"	15	23	43	19	19	10	1.513.3801.70
NPT 1/2"	13	32,5	56	27	30	17	1.513.1217.70
NPT 3/4"	13	40	70	33	38,5	23	1.513.3401.70
NPT 1"	15	51,5	83	42	46	29	1.513.1001.70

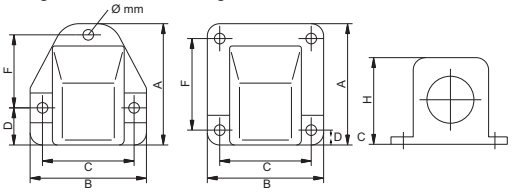
Dimensions and specifications may be changed without prior notice

KF-G

DN

Material	Polyamide
Seal	NBR
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 DN	Flange	Ø mm	A mm	B mm	C mm	D mm	F mm	H mm	Number grey	Number black
12	1	4,3	49	47	37	15,5	29	35	1.312.1100.15	1.312.1101.15
17	1	4,3	49	47	37	15,5	29	35	1.312.1600.15	1.312.1601.15
23	1	6,0	69	65	51,5	21,5	41,5	44	1.312.2100.15	1.312.2101.15
29	2	6,5	90	78	64,5	9,5	64,5	55	1.312.2900.15	1.312.2901.15
37	2	6,5	99	94	79,5	10,5	79,5	66	1.312.3600.15	1.312.3601.15
50	2	6,5	116	101	87,5	12,5	87,5	76	1.312.4800.15	1.312.4801.15

Other International Ex-Certifications

Ukraine	No. 1100	
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

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).

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

Approvals for HSK Strain Relief Fittings / Licence Number 40012033

Page	Article	Number	Temperature Range	Approval G (Gas)	Approval D (Dust)	EC-Type Examination Certificate
148	RSD-Ms-Ex	1.078.*	-20 °C – 95 °C	x	x	DMT 03 ATEX E 049
148	RSD-Ms-Ex	1.079.*	-60 °C – 180 °C	x	x	DMT 03 ATEX E 049
152	RSD-INOX-Ex	1.098.*	-20 °C – 180 °C	x	x	DMT 03 ATEX E 049
152	RSD-INOX-Ex	1.099.*	-60 °C – 180 °C	x	x	DMT 03 ATEX E 049
151	V-INOX-Ex	1.192.*	-20 °C – 95 °C	x	x	DMT 03 ATEX E 049
151	V-INOX-FPM-Ex	1.193.*	-20 °C – 180 °C	x	x	DMT 03 ATEX E 049
151	V-INOX-VMQ-Ex	1.194.*	-60 °C – 180 °C	x	x	DMT 03 ATEX E 049
147	V-Ms-Ex	1.197.*	-20 °C – 95 °C	x	x	DMT 03 ATEX E 049
147	V-Ms-FPM-Ex	1.198.*	-20 °C – 180 °C	x	x	DMT 03 ATEX E 049
147	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
112–116	HSK-K-Ex	1.291.*	-20 °C – 95 °C	x	x	DMT 02 ATEX E 047 X
112, 113	HSK-K-Ex	1.295.*	-20 °C – 95 °C	x	x	DMT 02 ATEX E 047 X
146	HSK-V-Ex / Mz-V-Ex	1.296.*	-20 °C – 95 °C	x	x	BVS 03 ATEX E 298
144, 145	V-Ex	1.297.*	-20 °C – 90 °C	x	x	DMT 03 ATEX E 049
169, 170	Snapclic-Duo-Ms-Ex	1.566.*/1.567.*	-20 °C – 95 °C	x	x	BVS 06 ATEX E 069 X
168	Snapflex-Ex	1.560.*	-20 °C – 95 °C	x	x	BVS 06 ATEX E 069 X
133	HSK-K-FLAKA-Ex	1.589.*	-20 °C – 95 °C	x	x	DMT 02 ATEX E 047 X
136	HSK-M-FLAKA-Ex	1.689.*	-20 °C – 95 °C	x	x	DMT 03 ATEX E 051 X
132	HSK-K-Multi-Ex	1.599.*	-20 °C – 95 °C	x	x	DMT 02 ATEX E 047 X
106, 107	EXIOS Barrier	1.606.*	-60° C – 85° C	x	x	Sira-11-ATEX-1110-X
104, 105	EXIOS Standard	1.605.*	-60° C – 105° C	x	x	BVS 10 ATEX E 062 X
117–120, 126, 127	HSK-M/EMV-Ex	1.610.* / 1.616.*	-20 °C – 95 °C	x	x	DMT 03 ATEX E 051 X
128 – 130, 137, 138	HSK-MZ/EMV-Ex	1.611.* / 1.617.*	-20 °C – 95 °C	x	x	DMT 03 ATEX E 051 X
121, 122	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
124, 125	HSK-M-EMV-D-Ex	1.636.*	-20 °C – 95 °C	x	x	DMT 03 ATEX E 051 X
124, 125	HSK-M-EMV-D-Ex	1.637.*	-60 °C – 95 °C	x	x	KEMA 99 ATEX 6971 X
117–120, 126, 127	HSK-M/EMV-Ex	1.640.* / 1.646.*	-60 °C – 95 °C	x	x	KEMA 99 ATEX 6971 X
128–130	HSK-MZ/EMV-Ex	1.647.*	-60 °C – 95 °C	x	x	KEMA 99 ATEX 6971 X
121, 122	HSK-INOX–Ex	1.642.*	-60 °C – 95 °C	x	x	KEMA 99 ATEX 6971 X
117–120	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
121, 122	HSK-INOX–PVDF-Ex	1.662.*	-20 °C – 130 °C	x	x	KEMA 99 ATEX 6971 X
127	HSK-M-EMV-PVDF-Ex	1.666.*	-20 °C – 130 °C	x	x	KEMA 99 ATEX 6971 X
129, 130	HSK-MZ-EMV-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
168	Snapclip-Ex	1.731.*	-20 °C – 95 °C	x	x	BVS 06 ATEX E 069 X
149, 153	V-Ms-/INOX-Ex-d	1.875.*/1.895.*	-20 °C – 95 °C	x	x	KEMA 06 ATEX 0024
149, 153	V-Ms-/INOX-FPM-Ex-d	1.876.*/1.896.*	-20 °C – 180 °C	x	x	KEMA 06 ATEX 0024
149, 153	V-Ms-/INOX-VMQ-Ex-d	1.877.*/1.897.*	-60 °C – 180 °C	x	x	KEMA 06 ATEX 0024
150, 154	RSD-Ms-/INOX-Ex-d	1.878.*/1.898.*	-20 °C – 95 °C	x	x	KEMA 06 ATEX 0024
150, 154	RSD-Ms-/INOX-Ex-d	1.879.*/1.899.*	-60 °C – 180 °C	x	x	KEMA 06 ATEX 0024

Specifications may change without prior notice

International Protection, EN 60529

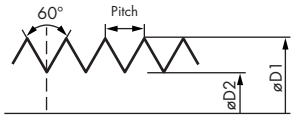
1. Code		2. Code	Penetration of water	Non-protected	protection against dripping water	Protected against vertically falling water drops when device is tilted up to 15°	Water sprayed at an angle up to 60° on either side of the vertical shall have no harmful effects	Water splashed from any direction shall 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	PP	Polypropylene
FPM	Fluorelastomer	PVC	Polyvinylchloride
Ms	Nickel plated brass	PVDF	Polyvinylidenfluoride
NBR	Buna-N	SB	Styrene Butadiene
PA	Polyamide	VMQ	Silicone
PE	Polyethylene		

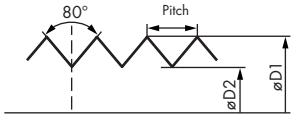
www.hummel.com

Metric ISO Thread Specifications



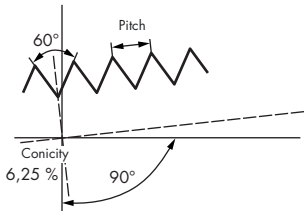
Size	Pitch mm	Outside-Ø D1 mm	Inside-Ø D2 mm	Thru-hole mm
M 12 x 1,5	1,5	12	10,38	12,2
M 16 x 1,5	1,5	16	14,38	16,2
M 20 x 1,5	1,5	20	18,38	20,2
M 25 x 1,5	1,5	25	23,38	25,2
M 32 x 1,5	1,5	32	30,38	32,2
M 40 x 1,5	1,5	40	38,38	40,2
M 50 x 1,5	1,5	50	48,38	50,2
M 63 x 1,5	1,5	63	61,38	63,2

PG Thread Specifications



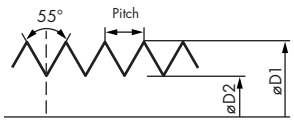
Size	Pitch mm	Outside-Ø D1 mm	Inside-Ø D2 mm	Thru-hole mm
PG 7	1,270	12,5	11,28	12,7
PG 9	1,410	15,2	13,86	15,4
PG 11	1,410	18,6	17,26	18,8
PG 13,5	1,410	20,4	19,06	20,7
PG 16	1,410	22,5	21,16	22,8
PG 21	1,588	28,3	26,78	28,6
PG 29	1,588	37,0	35,48	37,4
PG 36	1,588	47,0	45,48	47,5
PG 42	1,588	54,0	52,48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

Other temperature ranges pending. You may find further info at: www.hummel.com

Snapturn

High strain relief on corrugated conduit!

1. Screw Snapturn into mounting hole
2. Insert Snapflex into Snapturn
3. Hold Snapturn against the housing and tighten the nut – finished!

screw in

insert

tighten nut

finished

Snapturn

the efficient way of corrugated conduit mounting

HSK-M-EMV / METRICA-M-EMV

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)

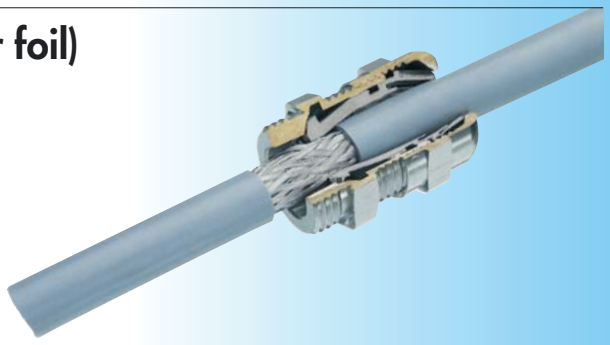
Step 3

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

HSK-M-EMV-D

Option 1

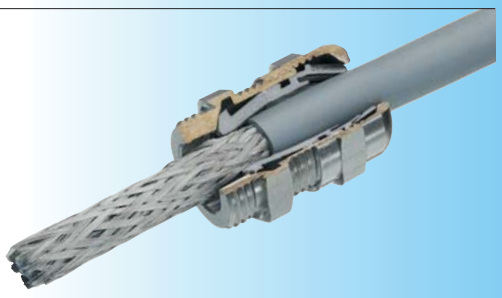
Feed-through of cable and shield (braided or foil)



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

Option 2

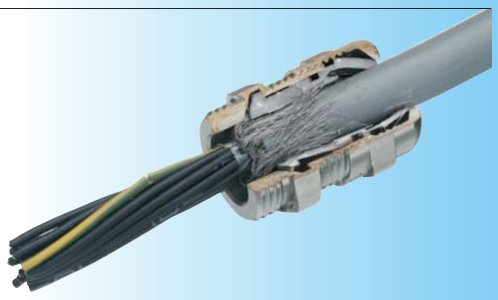
Feed-through of shield (braided or foil)



+ 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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