

Setting Standards

Cable Glands Cable Protection



2013



Setting Standards

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HUMMEL AG





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 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



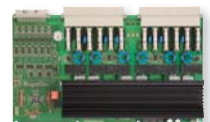
Cable Glands,
Circular Connectors



Solutions



Industrial Enclosures



Electronic

Table of Contents

Industrial cable glands

HSK-standard cable glands

▶ 13



Meatr. PG NPT Meatr. PG NPT Meatr. PG NPT

HSK-EMC cable glands

▶ 29



PG NPT NPT Meatr. PG NPT

HSK cable glands for special applications

▶ 37



Meatr. PG NPT Meatr. PG NPT Meatr. PG NPT

METRICA cable glands

▶ 57



Meatr. Meatr. Meatr. Meatr. Meatr. Meatr. Meatr.

Miscellaneous cable glands

▶ 63



WADI DIN 46320 WADI DIN 46320 WADI

Accessories

▶ 73



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Special Products

▶ 6

New Products

▶ 7

Index

▶ 8

Technical Information

▶ 176

Assembly Instructions

▶ 179

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Cable glands for hazardous areas

EXIOS Standard, Barrier

▶ 103



ATEX IECEx ATEX IECEx ATEX IECEx ATEX

EXIOS A2F

▶ 108



ATEX ATEX ATEX ATEX ATEX ATEX ATEX

Industrial cable glands for hazardous areas

HSK-Ex-e Standard cable glands

▶ 111



ATEX IECEx ATEX IECEx ATEX IECEx ATEX

HSK-EMC-Ex-e cable glands

▶ 123



IECEx ATEX IECEx ATEX IECEx ATEX

HSK-Ex-e cable glands for special applications

▶ 131



ATEX IECEx ATEX IECEx ATEX IECEx ATEX

HSK-Ex-d standard cable glands

▶ 139



ATEX IECEx ATEX IECEx ATEX IECEx ATEX

Ex accessories

▶ 143



ATEX IECEx ATEX IECEx ATEX IECEx ATEX

Table of Contents

Corrugated conduit systems

Snapflex Industry standard metric

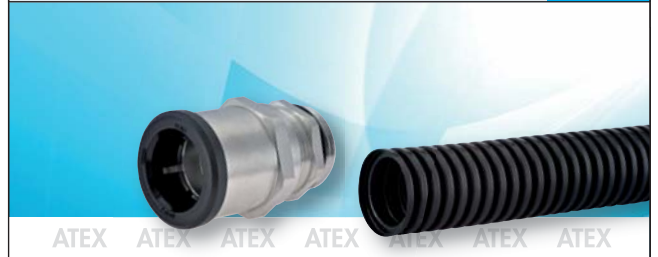
▶ 155



Metr. PG NPT Metr. PG NPT Metr. PG NPT

Snapflex-Ex metric

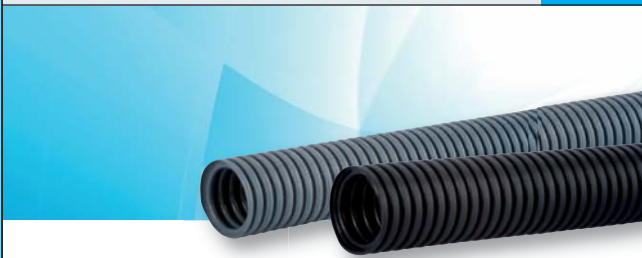
▶ 167



ATEX ATEX ATEX ATEX ATEX ATEX ATEX

DN conduits

▶ 171

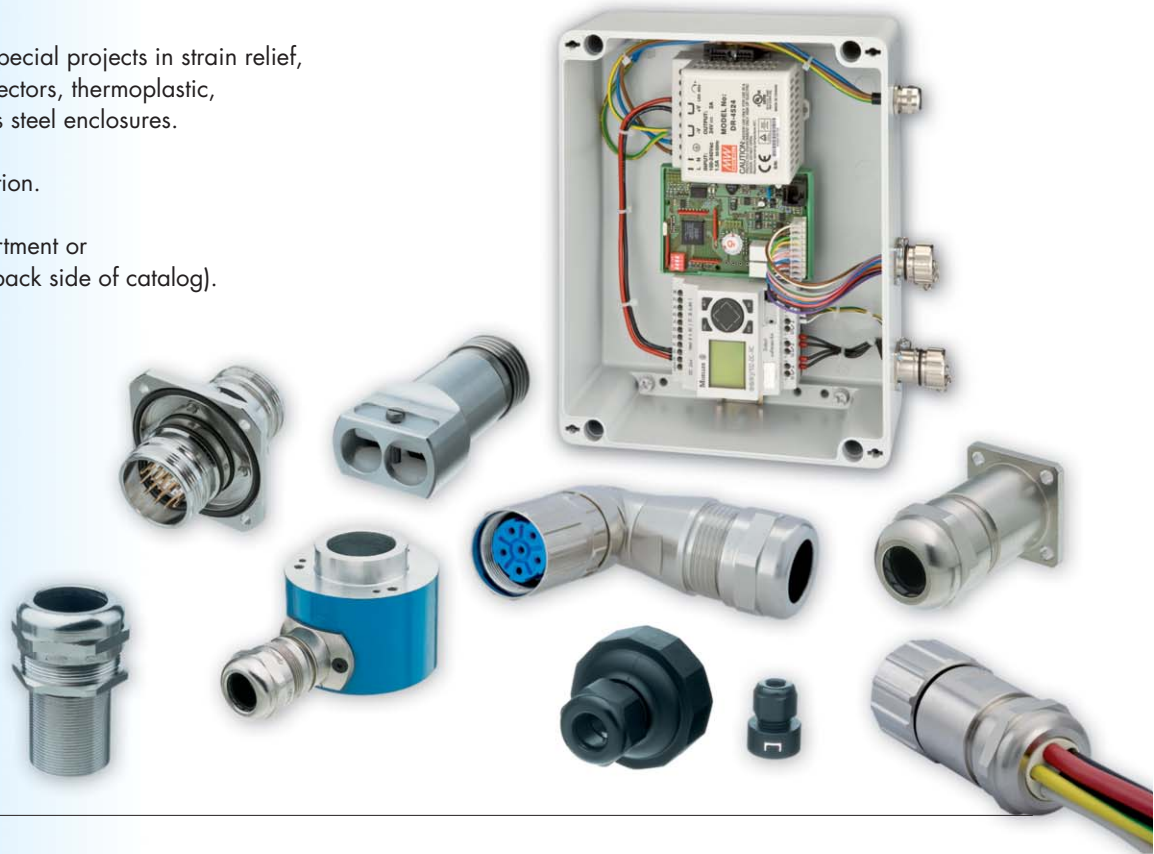


Special Products

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
+ BARRIER



- + **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

EXIOS
+ A2F



- + **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

▶ Product on page 160



Numerical Index

Product Number	Description	Page	Product Number	Description	Page	Product Number	Description	Page
1.022.	Earthtag	110	1.291.	HSK-K-Ex	112 – 116	1.634.	HSK-M-PVDF-Ex-d	140
1.033.	E-Ms	96	1.293.	HSK-K-Flex	42, 43	1.636.	HSK-M-EMV-D-Ex	124, 125
1.039.	RE-Ms	95	1.294.	HSK-K-Flex	42	1.637.	HSK-M-EMV-D-Ex	124, 125
1.052.	V-N-Ms	91	1.295.	HSK-K-Ex	112, 113	1.640.	HSK-M-Ex	117 – 120
1.052.	V-N-Ms-SD	91	1.296.	HSK-V-Ex	146	1.641.	HSK-MZ-Ex	137, 138
1.071.	R-H	93	1.296.	HSK-V-Ex MZ version	146	1.642.	HSK-INOX-Ex	121, 122
1.076.	R-H	93	1.297.	V-Ex	144, 145	1.646.	HSK-M-EMV-Ex	126, 127
1.077.	RSD-Ms	94	1.299.	HSK-K-PVDF	20, 21	1.647.	HSK-MZ-EMV-Ex	128 – 130
1.078.	RSD-Ms-Ex	148	1.306.	FW-T	85	1.660.	HSK-M-PVDF-Ex	117 – 120
1.079.	RSD-Ms-Ex	148	1.306.	FW-ZN	98	1.661.	HSK-MZ-PVDF-Ex	137, 138
1.089.	HSK-ME	86	1.309.	HSK-M-W	56	1.662.	HSK-INOX-PVDF-Ex	121, 122
1.091.	HSK-FLAKA	87	1.312.	KF-G	84, 175	1.666.	HSK-M-EMV-PVDF-Ex	127
1.094.	RS-INOX	101, 102	1.313.	HSK-W	44, 45	1.667.	HSK-MZ-EMV-PVDF-Ex	129, 130
1.097.	RSD-INOX	101, 102	1.314.	HSK-W-Flex	46	1.669.	HSK-MZ-PVDF	54, 55
1.098.	RSD-INOX-Ex	152	1.315.	90° Snap Elbow	82	1.675.	HSK-INOX	27, 28
1.099.	RSD-INOX-Ex	152	1.316.	90° Snap Elbow	82	1.676.	HSK-INOX-PVDF	27, 28
1.101.	DIN 46320-C4-Ms	69	1.317.	HSK-W rotating version	45	1.680.	SE	72
1.105.	Z	70, 71	1.318.	Snapform	166	1.681.	ZSE	72
1.106.	GM-Ms	90	1.321.	O-Ring	88	1.683.	METRICA-M-EMV	62
1.106.	HSK-MINI	51	1.325.	Thread Seal Ring	89	1.687.	HSK-M-Multi-Ex	135
1.106.	HSK-XL	52, 53	1.326.	Thread Seal Ring	109	1.688.	HSK-M-FLAKA	48
1.106.	WADI-A	64, 65	1.329.	Serrated Washer	110	1.689.	HSK-M-FLAKA-Ex	136
1.106.	WADI-A-FPM	66, 67	1.510.	Snapflex	156	1.690.	HSK-MZ	54, 55
1.112.	HSK-MINI	51	1.510.	SM-WS-PA	172	1.691.	HSK-M-EMV	32, 33
1.119.	HSK-MINI-EMV	51	1.511.	SM-N	173	1.692.	HSK-MZ-EMV	38
1.129.	HSK-MINI-INOX	51	1.513.	SM-W	174	1.695.	HSK-INOX	29, 30
1.143.	KLE	97	1.514.	SM-N	158	1.696.	HSK-INOX-PVDF	29, 30
1.152.	VINOX-NBR	100	1.515.	Snapturn	159	1.697.	HSK-M-Multi	47
1.153.	VINOX-FPM	100	1.518.	Snapsplit	157	1.699.	HSK-M-PVDF	22 – 26
1.154.	VINOX-VMQ	100	1.519.	Snapsplit	157	1.730.	Snapclip	166
1.155.	VNE-Ms	92	1.525.	Snapturn 90°	160	1.731.	Snapclip-Ex	168
1.156.	VNE-Ms-SD	92	1.526.	Snapturn 135°	161	1.740.	HSK-INOX-HD	39
1.157.	VNE-Ms-SD-FPM	92	1.542.	Snapclit-DUO-PA	162	1.802.	PVC Shroud	109
1.161.	GM-Ms	90	1.543.	Snapclit-DUO-PA	162	1.875.	V-Ms-Ex-d	149
1.161.	GM-INOX	99	1.547.	Snapclit-DUO-Ms	163	1.876.	V-Ms-Ex-d	149
1.167.	GM-EMV	90	1.548.	Snapclit-DUO-Ms	163	1.877.	V-Ms-Ex-d	149
1.171.	RE-Ms	95	1.552.	Snapclit-PA-W	164	1.878.	RSD-Ms-Ex-d	150
1.192.	VINOX-Ex	151	1.553.	Snapclit-DUO-PA-W	165	1.879.	RSD-Ms-Ex-d	150
1.193.	VINOX-Ex	151	1.554.	Snapclit-DUO-PA-W	165	1.895.	V-INOX-Ex-d	153
1.194.	VINOX-Ex	151	1.560.	Snapflex-Ex	168	1.896.	V-INOX-Ex-d	153
1.197.	V-Ms-Ex	147	1.566.	Snapclit-DUO-Ms-Ex	169	1.897.	VINOX-Ex-d	153
1.198.	V-Ms-FPM-Ex	147	1.567.	Snapclit-DUO-Ms-Ex	170	1.898.	RSD-INOX-Ex-d	154
1.199.	V-Ms-VMQ-Ex	147	1.587.	HSK-K-FLAKA	41	1.899.	RSD-INOX-Ex-d	154
1.201.	DIN 46320-A-FS	68	1.589.	HSK-K-FLAKA-Ex	133			
1.202.	DIN 46320-A-FS	68	1.590.	HSK-KE	18			
1.209.	HSK-K	14, 15, 16, 17, 19	1.591.	HSK-KR	18			
1.213.	KS	83	1.597.	HSK-K-Multi	40			
1.215.	HSK-K-MZ-Ex	134	1.599.	HSK-K-Multi-Ex	132			
1.218.	METRICA-P	58, 59	1.605.	EXIOS Standard	104, 105			
1.219.	HSK-K	14, 15	1.606.	EXIOS Barrier	106, 107			
1.233.	K-FS	81	1.607.	METRICA-M-EMV-E	61			
1.235.	R-FS	79	1.608.	EXIOS A2F	108			
1.236.	R-FS	79	1.609.	HSK-M	22 – 26			
1.238.	METRICA-P-Flex	58, 59	1.610.	HSK-M-Ex	117 – 120			
1.239.	E-M-PA	81	1.611.	HSK-MZ-Ex	137, 138			
1.250.	DS	77	1.612.	HSK-INOX-Ex	121, 122			
1.251.	V-N-FS	75	1.616.	HSK-M-EMV-Ex	126, 127			
1.255.	VNE	76	1.617.	HSK-MZ-EMV-Ex	128 – 130			
1.256.	VNE-SD	76	1.618.	METRICA-M	60			
1.262.	GM-FS	74	1.622.	HSK-M-Ex-d	140			
1.263.	GM-KS	83	1.623.	HSK-M-Flex	49, 50			
1.271.	R-FS	79	1.624.	HSK-M-Flex-EMV	34, 35			
1.272.	R-FS	79	1.628.	HSK-MZ-Ex-d	141			
1.273.	R-M-PA	80	1.631.	HSK-M-EMV-D	30, 31			
1.280.	HSK-V	78	1.632.	HSK-INOX-Ex-d	142			
1.282.	WN	77	1.633.	HSK-INOX-PVDF-Ex-d	142			

Product Number	Description	Page	Product Number	Description	Page	Product Number	Description	Page
1.315.	90° Snap Elbow	82	1.089.	HSK-ME	86	1.553.	Snapcllic-DUO-PA-W	165
1.316.	90° Snap Elbow	82	1.106.	HSK-MINI	51	1.554.	Snapcllic-DUO-PA-W	165
1.201.	DIN 46320-A-FS	68	1.112.	HSK-MINI	51	1.731.	Snapclip-Ex	168
1.202.	DIN 46320-A-FS	68	1.119.	HSK-MINI-EMV	51	1.552.	Snapcllic-PA-W	164
1.101.	DIN 46320-C4-Ms	69	1.129.	HSK-MINI-INOX	51	1.730.	Snapclip	166
1.250.	DS	77	1.690.	HSK-MZ	54, 55	1.510.	Snapflex	156
1.022.	Earhtag	110	1.692.	HSK-MZ-EMV	36	1.560.	Snapflex-Ex	168
1.239.	E-M-PA	81	1.617.	HSK-MZ-EMV-Ex	128 – 129	1.318.	Snapform	166
1.033.	E-Ms	96	1.647.	HSK-MZ-EMV-Ex	128 – 130	1.518.	Snapsplit	157
1.608.	EXIOS A2F	108	1.667.	HSK-MZ-EMV-PVDF-Ex	129, 130	1.519.	Snapsplit	157
1.606.	EXIOS Barrier	106, 107	1.611.	HSK-MZ-Ex	137, 138	1.515.	Snapturn	159
1.605.	EXIOS Standard	104, 105	1.641.	HSK-MZ-Ex	137, 138	1.525.	Snapturn 90°	160
1.306.	FW-T	85	1.628.	HSK-MZ-Ex-d	141	1.526.	Snapturn 135°	161
1.306.	FW-ZN	98	1.669.	HSK-MZ-PVDF	54, 55	1.325.	Thread Seal Ring	89
1.167.	GM-EMV	90	1.661.	HSK-MZ-PVDF-Ex	137, 138	1.297.	V-Ex	144, 145
1.262.	GM-FS	74	1.280.	HSK-V	78	1.192.	V-INOX-Ex	151
1.161.	GM-INOX	99	1.296.	HSK-V-Ex	146	1.193.	V-INOX-Ex	151
1.263.	GM-KS	83	1.296.	HSK-V-Ex MZ version	146	1.194.	V-INOX-Ex	151
1.106.	GM-Ms	90	1.313.	HSK-W	44, 45	1.895.	V-INOX-Ex-d	153
1.161.	GM-Ms	90	1.314.	HSK-W-Flex	46	1.896.	V-INOX-Ex-d	153
1.091.	HSK-FLAKA	87	1.317.	HSK-W rotating version	45	1.897.	V-INOX-Ex-d	153
1.695.	HSK-INOX	27, 28	1.106.	HSK-XL	52, 53	1.153.	V-INOX-FPM	100
1.675.	HSK-INOX	27, 28	1.233.	K-FS	81	1.152.	V-INOX-NBR	100
1.612.	HSK-INOX-Ex	121, 122	1.312.	K-F-G	84, 175	1.154.	V-INOX-VMQ	100
1.642.	HSK-INOX-Ex	121, 122	1.143.	KLE	97	1.197.	V-Ms-Ex	147
1.632.	HSK-INOX-Ex-d	142	1.213.	KS	83	1.875.	V-Ms-Ex-d	149
1.740.	HSK-INOX-HD	39	1.218.	METRICA-P	58, 59	1.876.	V-Ms-Ex-d	149
1.696.	HSK-INOX-PVDF	27, 28	1.238.	METRICA-P-Flex	58, 59	1.877.	V-Ms-Ex-d	149
1.676.	HSK-INOX-PVDF	27, 28	1.618.	METRICA-M	60	1.198.	V-Ms-FPM-Ex	147
1.662.	HSK-INOX-PVDF-Ex	121, 122	1.683.	METRICA-M-EMV	62	1.199.	V-Ms-VMQ-Ex	147
1.633.	HSK-INOX-PVDF-Ex-d	142	1.607.	METRICA-M-EMVE	61	1.251.	V-N-FS	75
1.209.	HSK-K	14, 15, 16, 17, 19	1.321.	O-Ring	88	1.052.	V-N-Ms	91
1.219.	HSK-K	14, 15	1.802.	PVC Shroud	109	1.052.	V-N-Ms-SD	19
1.291.	HSK-K-Ex	112 – 113	1.326.	Red Fibre Washer	109	1.255.	V-NE	76
1.295.	HSK-K-Ex	112, 113	1.235.	R-FS	79	1.155.	V-NE-Ms	92
1.587.	HSK-K-FLAKA	41	1.236.	R-FS	79	1.156.	V-NE-Ms-SD	92
1.589.	HSK-K-FLAKA-Ex	133	1.271.	R-FS	79	1.157.	V-NE-Ms-SD-FPM	92
1.293.	HSK-K-Flex	42, 43	1.272.	R-FS	79	1.256.	V-NE-SD	76
1.294.	HSK-K-Flex	42	1.071.	R-H	93	1.106.	WADI-A	64, 65
1.597.	HSK-K-Multi	40	1.076.	R-H	93	1.106.	WADI-A-FPM	66, 67
1.599.	HSK-K-Multi-Ex	132	1.273.	R-M-PA	80	1.282.	WN	77
1.215.	HSK-K-MZ-Ex	134	1.039.	RE-Ms	95	1.105.	Z	70, 71
1.299.	HSK-K-PVDF	20, 21	1.171.	RE-Ms	95	1.681.	ZSE	72
1.590.	HSK-KE	18	1.094.	RS-INOX	101, 102			
1.591.	HSK-KR	18	1.097.	RSD-INOX	101, 102			
1.609.	HSK-M	22 – 26	1.098.	RSD-INOX-Ex	152			
1.691.	HSK-M-EMV	32, 33	1.099.	RSD-INOX-Ex	152			
1.631.	HSK-M-EMVD	30, 31	1.898.	RSD-INOX-Ex-d	154			
1.636.	HSK-M-EMVD-Ex	124, 125	1.899.	RSD-INOX-Ex-d	154			
1.637.	HSK-M-EMVD-Ex	124, 125	1.077.	RSD-Ms	94			
1.616.	HSK-M-EMV-Ex	126, 127	1.078.	RSD-Ms-Ex	148			
1.646.	HSK-M-EMV-Ex	126, 127	1.079.	RSD-Ms-Ex	148			
1.666.	HSK-M-EMV-PVDF-Ex	127	1.878.	RSD-Ms-Ex-d	150			
1.610.	HSK-M-Ex	117 – 120	1.879.	RSD-Ms-Ex-d	150			
1.640.	HSK-M-Ex	117 – 120	1.680.	SE	72			
1.622.	HSK-M-Ex-d	140	1.329.	Serrated Washer	110			
1.688.	HSK-M-FLAKA	48	1.511.	SM-N	173			
1.689.	HSK-M-FLAKA-Ex	136	1.514.	SM-N	158			
1.623.	HSK-M-Flex	49, 50	1.513.	SM-W	174			
1.624.	HSK-M-Flex-EMV	34, 35	1.510.	SM-WS-PA	172			
1.697.	HSK-M-Multi	47	1.547.	Snapcllic-DUO-Ms	163			
1.687.	HSK-M-Multi-Ex	135	1.548.	Snapcllic-DUO-Ms	163			
1.699.	HSK-M-PVDF	22 – 26	1.566.	Snapcllic-DUO-Ms-Ex	169			
1.660.	HSK-M-PVDF-Ex	117 – 120	1.567.	Snapcllic-DUO-Ms-Ex	170			
1.634.	HSK-M-PVDF-Ex-d	140	1.542.	Snapcllic-DUO-PA	162			
1.309.	HSK-M-W	56	1.543.	Snapcllic-DUO-PA	162			

HSK-Industry Standard



also in



IP 69K

- + Halogen- and phosphorous-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

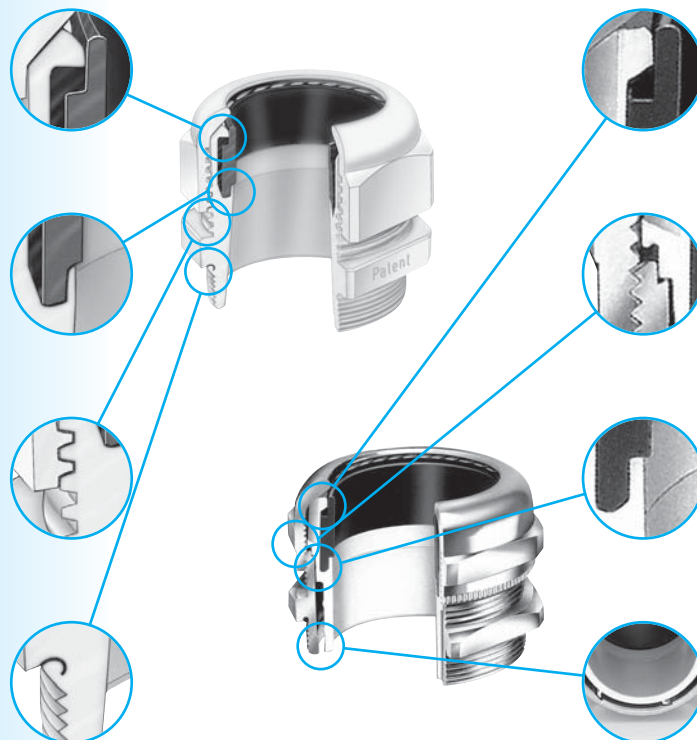
HSK-K

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

HSK-EMC-Industry Standard



also in



IP 69K

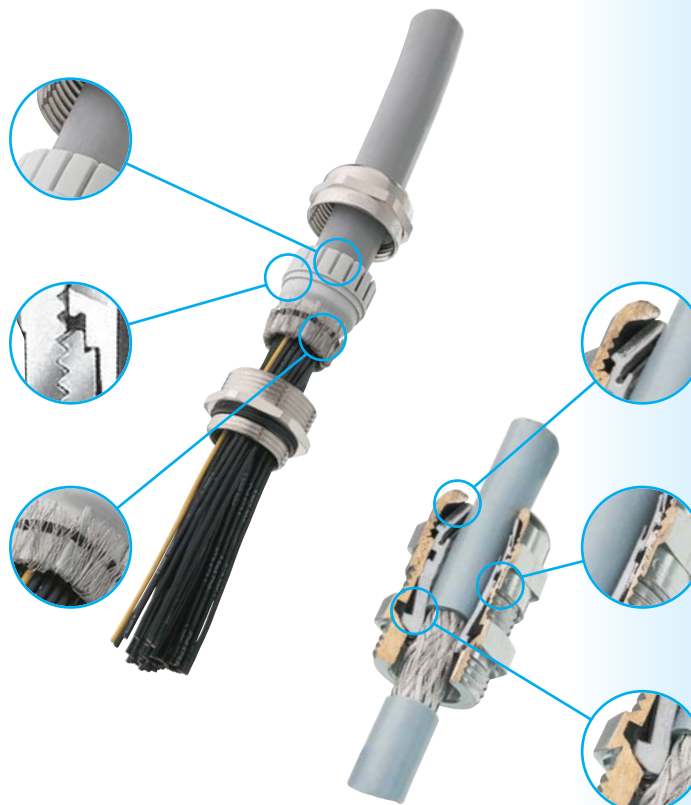
- + Halogen- and phosphorous-free
- + Fire protection class V0 according to UL 94
- + Liquid tight per NEMA 4x & 6 to 150 PSIG (IP 68 to 10 bar) according to DIN EN 60529
- + Quick assembly and reliable grounding of shielded cables

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

Snapclic-DUO



- + Conduit fitting and cable gland in one article
- + Halogen- and phosphorous-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

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:

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Tel.: +49(0) 76 66/9 11 10-0

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



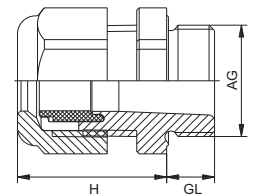
Operating Temperature -40 °C – 100 °C (-40 °F – 212 °F)

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



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

HSK-standard cable glands

HSK-K

Metr.-elongated



Material Polyamide VO according to UL 94

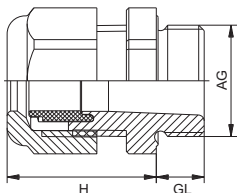
Seal Buna-N

Protection IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
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	∅k mm	GL mm	H mm	∅ mm	Number grey	Number black	Number blue
M 12 x 1,5	3-6,5	15	21	15	1.209.1200.30	1.209.1201.30	1.209.1202.30
M 12 x 1,5	2-5	15	21	15	1.209.1200.31	1.209.1201.31	1.209.1202.31
M 16 x 1,5	4-8	15	22	19	1.209.1600.30	1.209.1601.30	1.209.1602.30
M 16 x 1,5	2-6	15	22	19	1.209.1600.31	1.209.1601.31	1.209.1602.31
M 16 x 1,5	5-10	15	25	22	1.219.1600.30	1.219.1601.30	1.219.1602.30
M 20 x 1,5	6-12	15	27	24	1.209.2000.30	1.209.2001.30	1.209.2002.30
M 20 x 1,5	5-9	15	27	24	1.209.2000.31	1.209.2001.31	1.209.2002.31
M 20 x 1,5	10-14	15	28	27	1.219.2000.30	1.219.2001.30	1.219.2002.30
M 25 x 1,5	13-18	15	31	33	1.209.2500.30	1.209.2501.30	1.209.2502.30
M 25 x 1,5	9-16	15	31	33	1.209.2500.31	1.209.2501.31	1.209.2502.31
M 32 x 1,5	18-25	15	39	42	1.209.3200.30	1.209.3201.30	1.209.3202.30
M 32 x 1,5	13-20	15	39	42	1.209.3200.31	1.209.3201.31	1.209.3202.31
M 40 x 1,5	22-32	18	48	53	1.209.4000.30	1.209.4001.30	1.209.4002.30
M 40 x 1,5	20-26	18	48	53	1.209.4000.31	1.209.4001.31	1.209.4002.31
M 50 x 1,5	32-38	18	49	60	1.209.5000.30	1.209.5001.30	1.209.5002.30
M 50 x 1,5	25-31	18	49	60	1.209.5000.31	1.209.5001.31	1.209.5002.31
M 63 x 1,5	37-44	18	49	65/68	1.209.6300.30	1.209.6301.30	1.209.6302.30
M 63 x 1,5	29-35	18	49	65/68	1.209.6300.31	1.209.6301.31	1.209.6302.31

➔ Accessories see page 73

HSK-standard cable glands

HSK-K

PG



Material Polyamide V0 according to UL 94



Seal Buna-N



Protection IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
within the specified clamping range, only with optional O-Ring

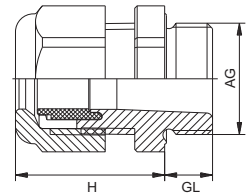
Operating Temperature -40 °C – 100 °C (-40 °F – 212 °F)

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



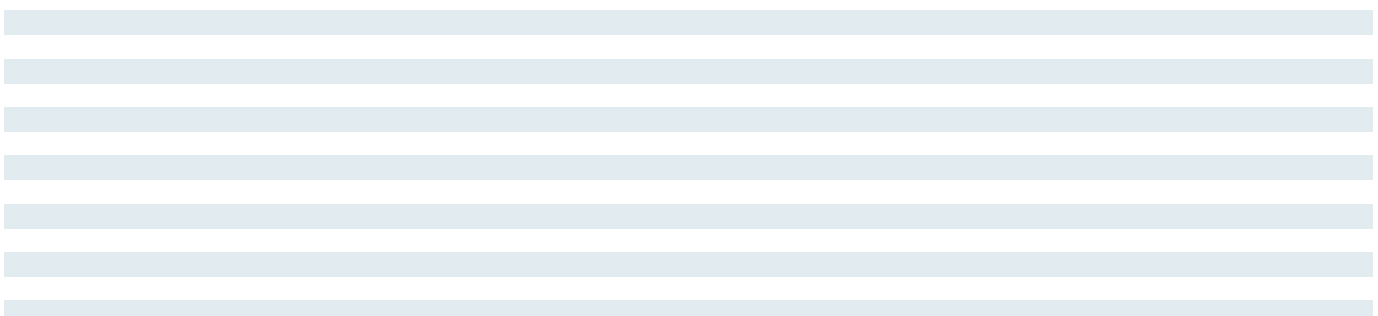
Advice:

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

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



➔ Accessories see page 73

HSK-standard cable glands

HSK-K

PG-elongated

RoHS



Material Polyamide VO according to UL 94

Seal Buna-N

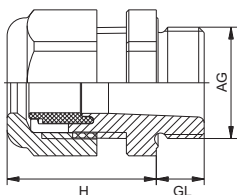
Protection IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
within the specified clamping range, only with optional O-Ring

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"

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	∅k 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


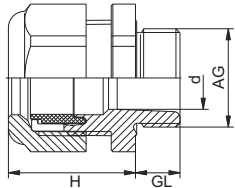
HSK-KE PG




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)

AG	\varnothing 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


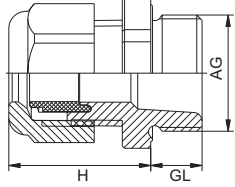
HSK-KR PG




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)

AG	\varnothing 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

HSK-standard cable glands

HSK-K

NPT

RoHS



Material Polyamide VO according to UL 94

Seal Buna-N

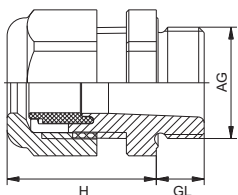
Protection IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
within the specified clamping range, only with optional O-Ring

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"



- 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	∅k 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


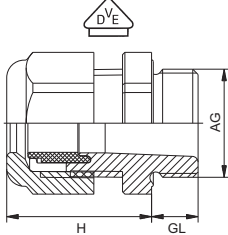
HSK-K-PVDF Metr.



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	\varnothing 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


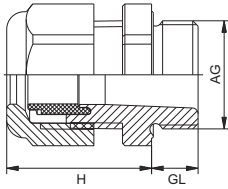
HSK-K-PVDF NPT



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	\varnothing 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

HSK-standard cable glands

HSK-K-PVDF

PG

RoHS



Material PVDF V0 according to UL 94

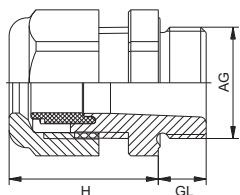
Seal FPM

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	∅ _k mm	GL mm	H mm	∅ _h 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



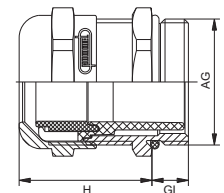
O-Ring Buna-N / FPM

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	\varnothing mm	GL mm	H mm	\varnothing 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

HSK-standard cable glands

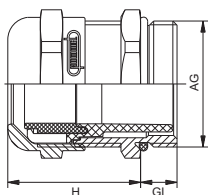
HSK-M / HSK-M-PVDF

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	Ø mm	GL mm	H mm	Ø 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



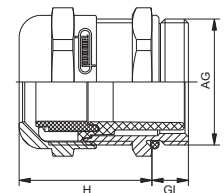
Seal Buna-N / FPM

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)

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



AG	\varnothing mm	GL mm	H mm	\varnothing 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

HSK-standard cable glands

HSK-M / HSK-M-PVDF

PG-elongated



Material Nickel plated brass

Clamping insert Polyamide / PVDF

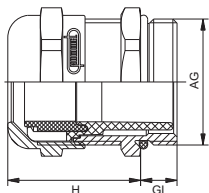
Seal Buna-N / FPM

O-Ring Buna-N / FPM

Protection IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
within the specified clamping range

Operating Temperature -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	\varnothing 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



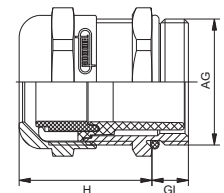
Seal Buna-N / FPM

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)

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



AG	\varnothing mm	GL mm	H mm	\varnothing 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

HSK-standard cable glands

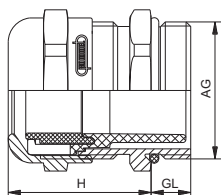
HSK-INOX / HSK-INOX-PVDF

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

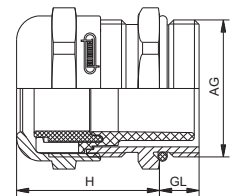
PG, NPT



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



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

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 66/9 11 10-0

Advice:

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

HSK-EMC cable glands

HSK-M-EMV-D

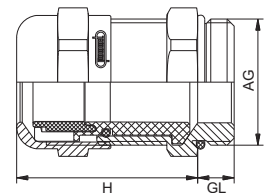
Metr., Metr.-elongated



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	$\varnothing k$ mm	GL mm	H mm	\varnothing 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

HSK-EMC cable glands

HSK-M-EMV-D PG

RoHS

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	\varnothing 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

RoHS

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	\varnothing 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

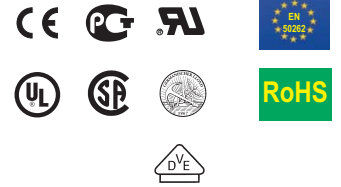
HSK-EMC cable glands

Metr., Metr.-elongated

HSK-M-EMV

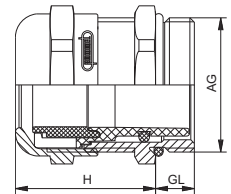


Material	Nickel plated brass
Clamping insert	Polyamide
Seal	Buna-N
O-Ring	Buna-N
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG) within the specified clamping range
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)



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	\varnothing mm	GL mm	H mm	\varnothing 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

HSK-M-EMV

PG, PG-elongated, NPT

RoHS



Material Nickel plated brass

Clamping insert Polyamide

Seal Buna-N

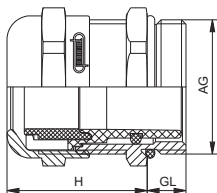
O-Ring Buna-N

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	∅k 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

HSK-EMC cable glands

HSK-M-Flex-EMV

Metr., Metr.-elongated

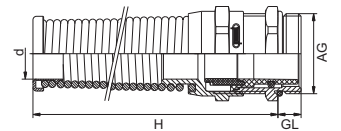


Material	Nickel plated brass
Steel spring	INOX 1.4310
Clamping insert	Polyamide
Seal	Buna-N
O-Ring	Buna-N
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG) within the specified clamping range
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)

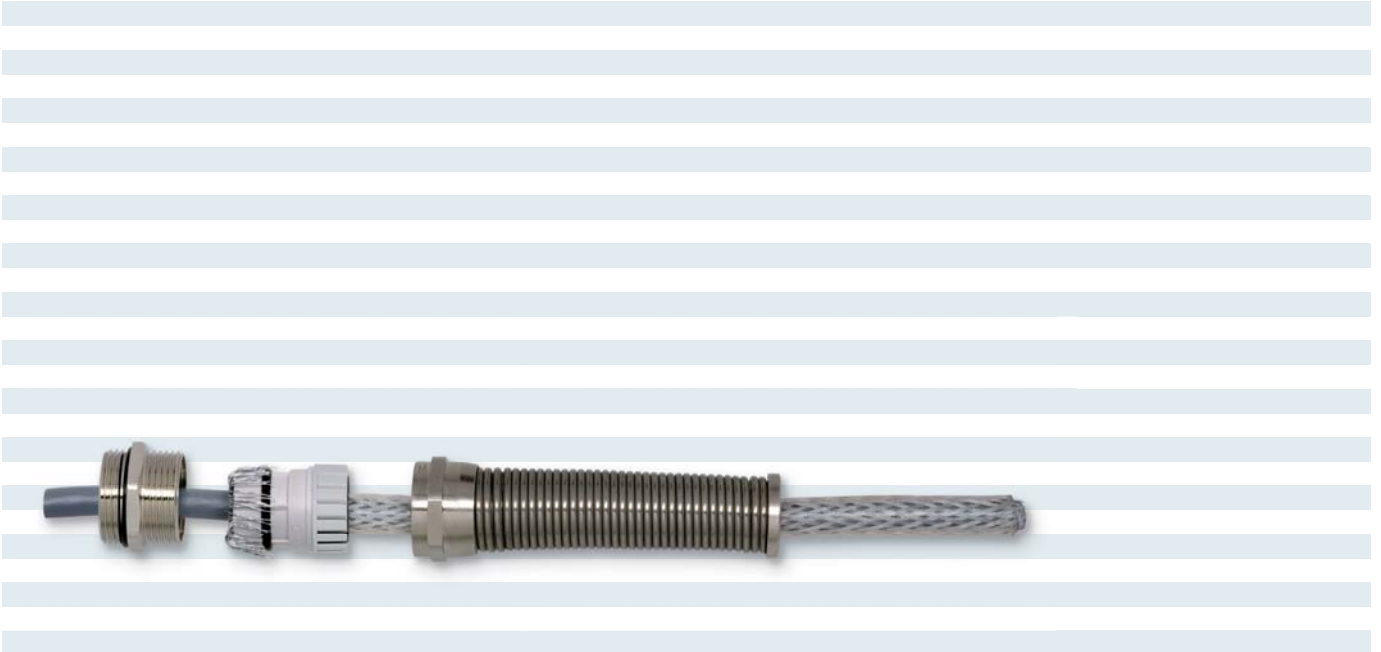


Advice:
- Other sealing material e.g. Silicone upon request

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



AG	\varnothing mm	GL mm	H mm	d mm	\varnothing 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

HSK-M-Flex-EMV

PG, PG-elongated, NPT

RoHS



Material Nickel plated brass

Steel spring INOX 1.4310

Clamping insert Polyamide

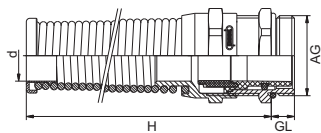
Seal Buna-N

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	\varnothing mm	GL mm	H mm	d mm	\varnothing 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

HSK-EMC cable glands

HSK-MZ-EMV

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

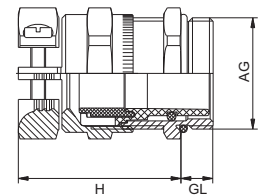


Material	Nickel plated brass
Clamping insert	Polyamide
Seal	Buna-N
O-Ring	Buna-N
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG) within the specified clamping range
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)



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	∅k 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

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.

NEW



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 66/9 11 10-0



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

NEW

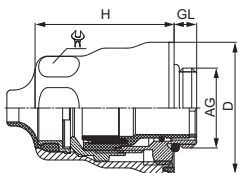
HSK cable glands for special applications

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

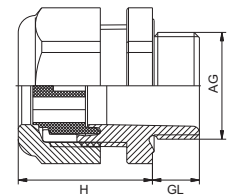
Operating Temperature -40 °C – 100 °C (-40 °F – 212 °F)

Colors grey (RAL 7035), black (RAL 9005)



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

HSK cable glands for special applications

HSK-K-FLAKA

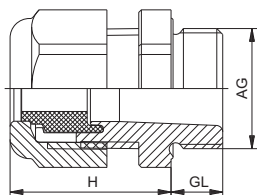
Metr., PG, NPT



Material	VO 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	14 x 7	1.587.2501.50	1.587.2501.51
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	29 x 5,5	1.587.4001.50	1.587.4001.51
M 40 x 1,5	13	48	53	28,5 x 10	1.587.4000.50	1.587.4000.51	31 x 7,5	1.587.4003.50	1.587.4003.51
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	14 x 7	1.587.2101.00	1.587.2101.01
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	29 x 5,5	1.587.3601.00	1.587.3601.01
PG 36	13	48	53	28,5 x 10	1.587.3600.00	1.587.3600.01	31 x 7,5	1.587.3603.00	1.587.3603.01
PG 36	13	48	53	30,5 x 12	1.587.3602.00	1.587.3602.01			
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

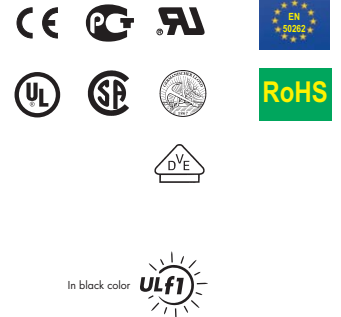
HSK cable glands for special applications

HSK-K-Flex

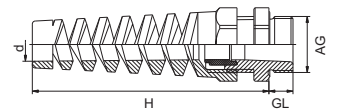
Metr., Metr.-elongated



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)



- 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	\varnothing mm	GL mm	H mm	d mm	\varnothing 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

HSK cable glands for special applications

HSK-K-Flex

PG, PG-elongated, NPT

RoHS



Material Polyamide

Seal Buna-N

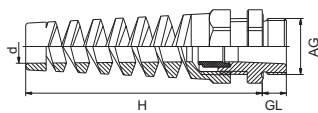
Protection IP 68 – 10 bar/ IP 69K (NEMA 6 – 150 PSIG)
within the specified clamping range, only with optional O-Ring

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



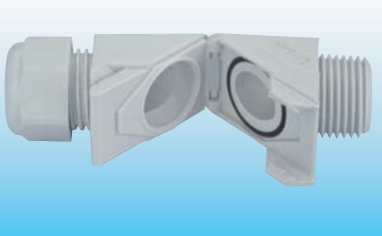
AG	\varnothing mm	GL mm	H mm	d mm	 mm	Number grey	Number black	GL mm	Number grey elongated	Number black elongated
PG 7*	3-6,5	8	54	7	15	1.293.0700.14	1.293.0701.14	15	1.293.0700.60	1.293.0701.60
PG 7*	2-5	8	54	7	15	1.293.0700.15	1.293.0701.15	15	1.293.0700.61	1.293.0701.61
PG 9*	4-8	8	63	8,5	19	1.293.0900.14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

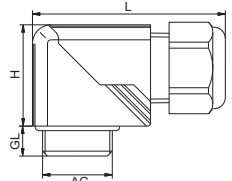
HSK cable glands for special applications

HSK-W Metr.



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


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



AG	\varnothing mm	GL mm	H mm	L mm	$\frac{R}{mm}$	$\frac{R}{mm}$	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

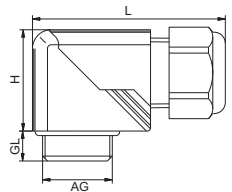
➔ Accessories see page 73

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



AG	\varnothing mm	GL mm	H mm	L mm	$\frac{R}{mm}$	$\frac{R}{mm}$	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

HSK cable glands for special applications

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

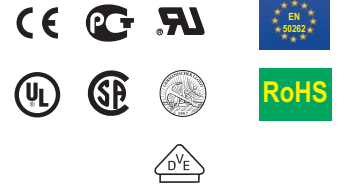
HSK cable glands for special applications

HSK-W-Flex

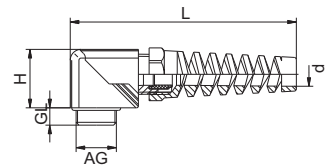
Metr., PG, NPT



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	\varnothing 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

HSK cable glands for special applications

HSK-M-Multi

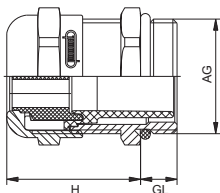
Metr., PG, NPT



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		1.697.1600.50		1.697.1601.50
M 20 x 1,5	6	23	22	4 x 1,4	1.697.2001.50	2 x 3	1.697.2003.50
M 25 x 1,5	7	26	30	6 x 3	1.697.2500.50	2 x 5	1.697.2501.50
M 32 x 1,5	8	31	40	4 x 6	1.697.3200.50	3 x 7	1.697.3201.50
M 40 x 1,5	8	37	50	6 x 6,5	1.697.4001.50	4 x 9	1.697.4003.50
M 50 x 1,5	9	37	57	7 x 9	1.697.5099.50	2 x 15	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

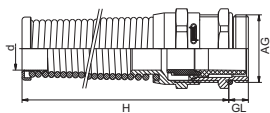
HSK-M-Flex

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	\varnothing 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	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)




AG	\varnothing mm	GL mm	H mm	d mm	\varnothing 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	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)




AG	\varnothing mm	GL mm	H mm	d mm	\varnothing 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

HSK cable glands for special applications

HSK-MINI

Metr., PG



Material Nickel plated brass / INOX 1.4305

Seal ring TPE / FPM

O-Ring Buna-N / FPM

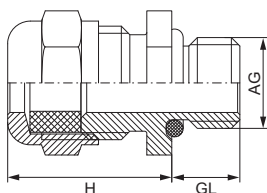
Protection IP 68

Operating Temperature -20 °C – 100 °C (-4 °F – 212 °F) (Buna-N / TPE)
-25 °C – 200 °C (-13 °F – 392 °F) (FPM)

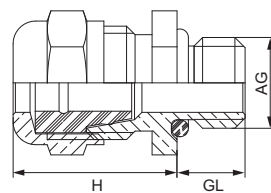
- Advice:**
- Other sealing material e.g. Silicone upon request
 - Other thread pitches on request
 - Stainless steel 1.4404 on request



HSK-Mini



HSK-Mini EMC



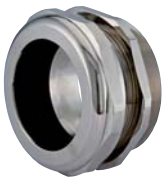
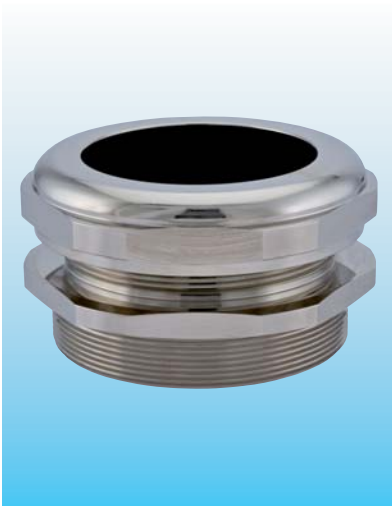
AG	$\varnothing k$ mm	GL mm	H mm	\varnothing mm	Number Buna-N / TPE	Number FPM
M 6 x 1	2-3,2	6	10	8	1.106.0601.50	1.106.0600.55
M 8 x 0,75	2-4,5	3,5	14,3	11	1.112.0801.01	
M 8 x 1,25	3-5	6	13	11	1.106.0801.50	1.106.0800.55
M 10 x 1,5	4-6	6	14	12	1.106.1001.50	
PG 7	2-4,5	3,5	14,3	11/15	1.112.0708.01	
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

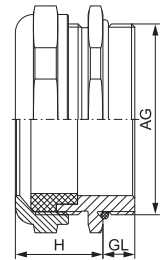
O-Ring Buna-N

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	\varnothing 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

HSK cable glands for special applications

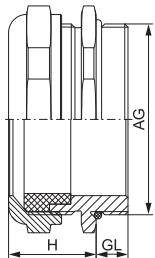
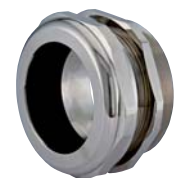
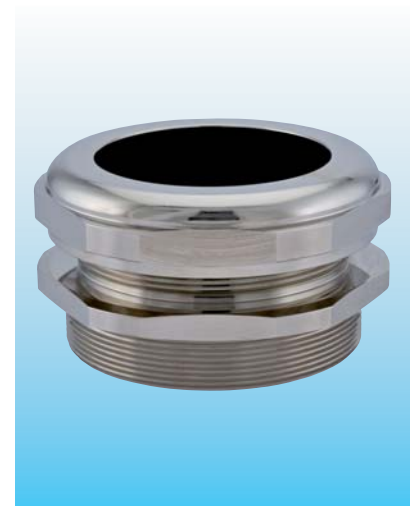
HSK-XL

G



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	Øk mm	GL mm	H mm	U 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

PG, PG-elongated

RoHS



Material Nickel plated brass

Clamping insert Polyamide / PVDF

Seal Buna-N / FPM

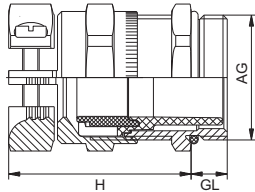
O-Ring Buna-N / FPM

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	\varnothing 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

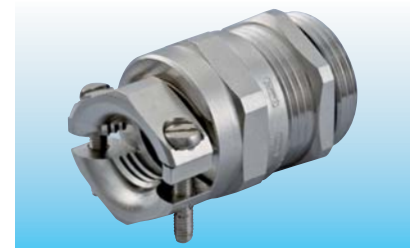
Clamping insert Polyamide / PVDF

Seal Buna-N / FPM

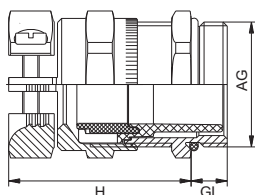
O-Ring Buna-N / FPM

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	\varnothing 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

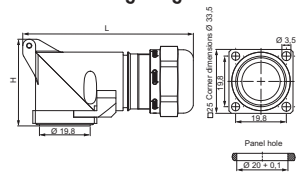


Material	Zinc die casting / Nickel plated brass
Clamping insert	Polyamide
Seal ring	Buna-N
O-Ring	Buna-N
Protection	IP 68
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)

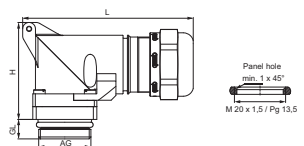
Advice:
- Other sealing material e.g. Silicone upon request



With mounting flange



With threaded connection



AG	\varnothing 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

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 66/9 11 10-0

METRICA cable glands

METRICA-P, METRICA-P-Flex

Metr.



Material Polyamide

Seal Buna-N

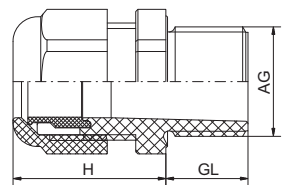
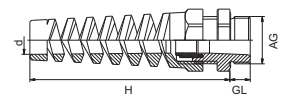
Protection IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
within the specified clamping range, only with optional O-Ring

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	U 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

METRICA-P, METRICA-P-Flex

Metr.-elongated



Material Polyamide

Seal Buna-N

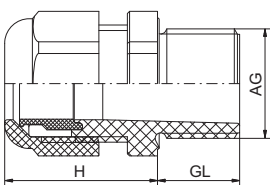
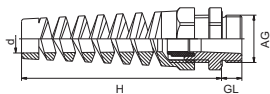
Protection IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
within the specified clamping range, only with optional O-Ring

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

METRICA-P-Flex

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

➔ Accessories see page 73

METRICA cable glands

METRICA-M

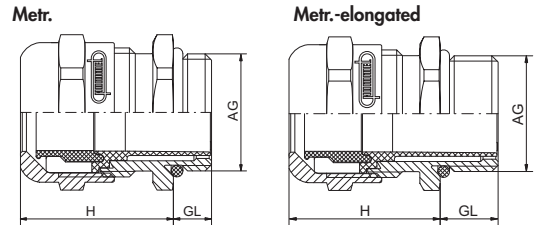
Metr., Metr.-elongated



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



AG	\varnothing mm	GL mm	H mm	\varnothing 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

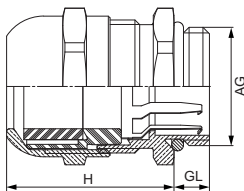
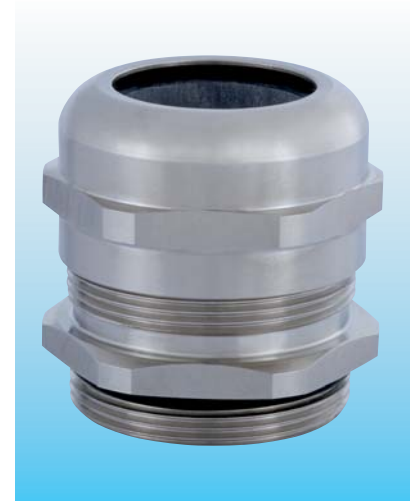
➔ Accessories see page 73

METRICA-M-EMV-E

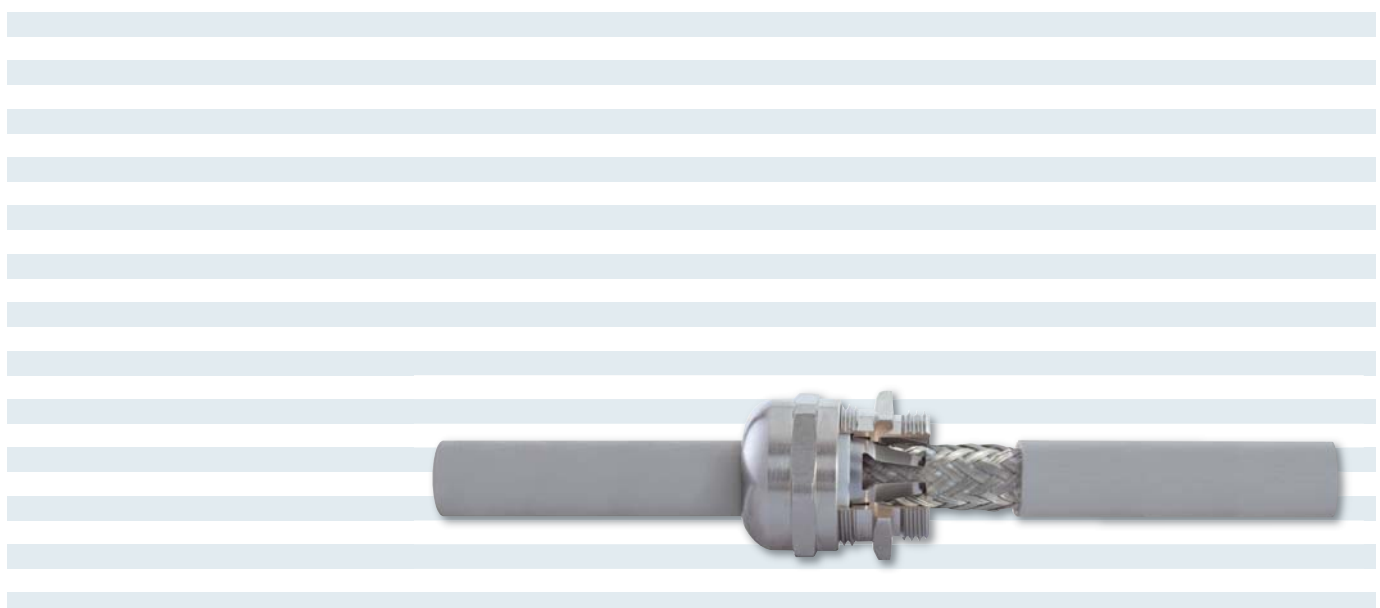
Metr.



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	\varnothing mm	GL mm	H mm	\varnothing 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

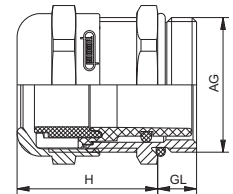
Metr., Metr.-elongated



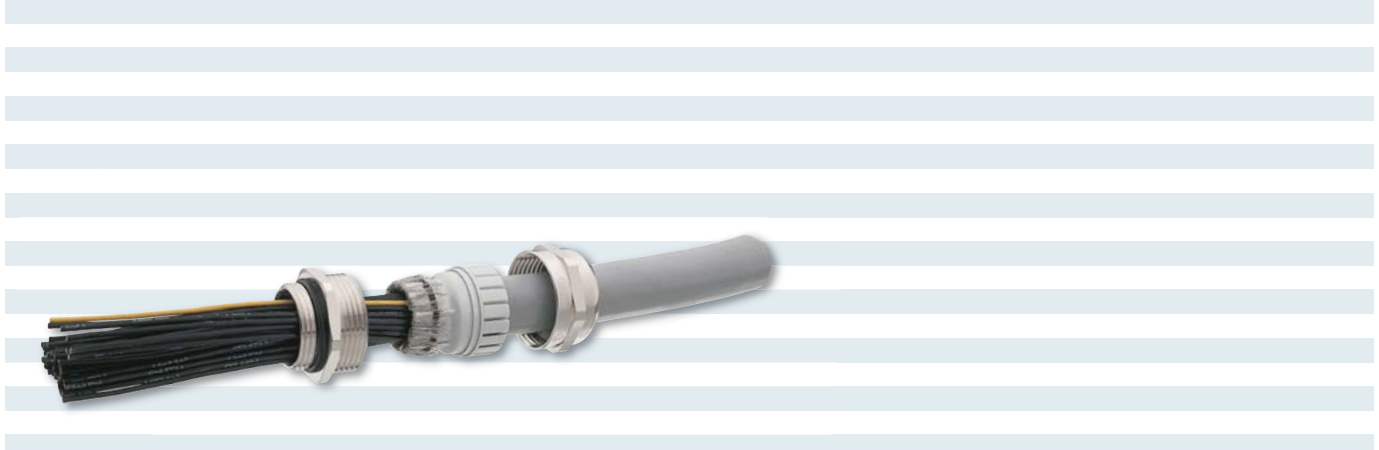
Material	Nickel plated brass
Clamping insert	Polyamide
Seal	Buna-N
O-Ring	Buna-N
Protection	IP 68 – 10 bar (NEMA 6 – 150 PSIG) within the specified clamping range
Operating Temperature	-40 °C – 100 °C (-40 °F – 212 °F)



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



AG	\varnothing_k mm	GL mm	H mm	\varnothing 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

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 66/9 11 10-0

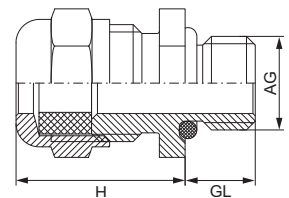
Miscellaneous cable glands

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	\varnothing mm	GL mm	H mm	\varnothing 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

Miscellaneous cable glands

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	\varnothing mm	GL mm	H mm		Number	\varnothing mm	Number	\varnothing 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 (multi-perforated)
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	\varnothing mm	GL mm	H 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

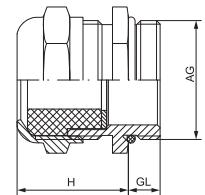
Miscellaneous cable glands

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

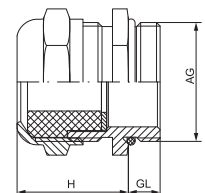
➔ Accessories see page 73

WADI-A-FPM two piece sealing insert

Metr.



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



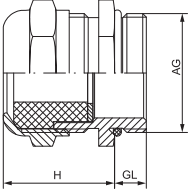
AG	∅ mm	GL mm	H mm	mm	Number
M 16 x 1,5	4-9	5	19	18	1.106.1601.58
M 20 x 1,5	7-13	6	21	22	1.106.2001.58
M 25 x 1,5	10-18	7	23	28	1.106.2501.58
M 32 x 1,5	16-24	8	26	35	1.106.3201.58
M 40 x 1,5	22-32	8	27	45	1.106.4001.58
M 50 x 1,5	30-40	10	28	55	1.106.5001.58
M 63 x 1,5	38-52	10	36	68	1.106.6301.58

➔ Accessories see page 73


Miscellaneous cable glands

WADI-A-FPM **PG**

RoHS



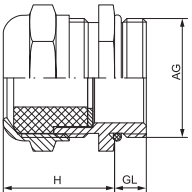
Material	Nickel plated brass
Seal ring	FPM
O-Ring	FPM
Protection	IP 68 (NEMA 6)
Operating Temperature	-25 °C – 200 °C (-13 °F – 392 °F)




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

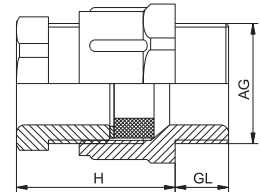
PG

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)

Advice:

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

AG	\varnothing mm	GL mm	H mm	\varnothing 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

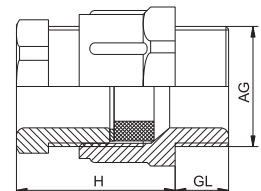
PG

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)

Advice:

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

AG	\varnothing mm	GL mm	H mm	\varnothing 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

Miscellaneous cable glands

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

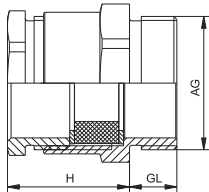
Operating Temperature -20 °C – 60 °C (-4 °F – 140 °F) (Soft rubber)
-20 °C – 80 °C (-4 °F – 176 °F) (Buna-N)

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

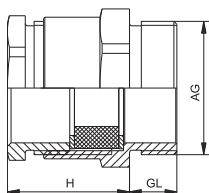
Operating Temperature -20 °C – 80 °C (-4 °F – 176 °F)

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)



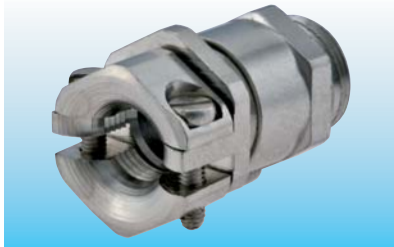
AG	∅ mm	GL mm	H mm	mm	Number
PG 9	4–10	6	15	17/15	1.101.0901.01
PG 11	6,5–12	6	17	20/18	1.101.1101.01
PG 13,5	6,5–13,5	6,5	20	22/20	1.101.1301.01
PG 16	6,5–16	6,5	22	24/22	1.101.1601.01
PG 21	9–20	7	24	30/28	1.101.2101.01
PG 29	17–28	8	26	40/37	1.101.2901.01
PG 36	23–34	9	30	50/47	1.101.3601.01
PG 42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

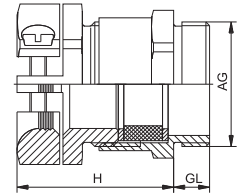
Miscellaneous cable glands

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	\varnothing mm	GL mm	H mm	\varnothing 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

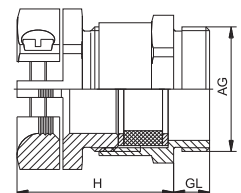
➔ Accessories see page 73

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

➔ Accessories see page 73

Miscellaneous cable glands

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

PG

RoHS

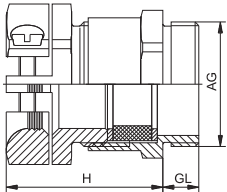


Material	Nickel plated brass
Seal ring	Soft rubber / Buna-N
Protection	IP 54, with thread seal ring IP 65
Operating Temperature	-20 °C – 60 °C (-4 °F – 140 °F) (Soft rubber) -20 °C – 80 °C (-4 °F – 176 °F) (Buna-N)



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

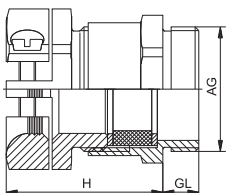


Material	Nickel plated brass
Seal ring	Buna-N (multiperforated)
Protection	IP 54, with thread seal ring IP 65
Operating Temperature	-20 °C – 80 °C (-4 °F – 176 °F)



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

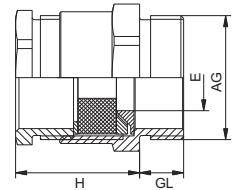
➔ Accessories see page 73

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)


Advice:

- Please see page 89 for suitable thread seal ring

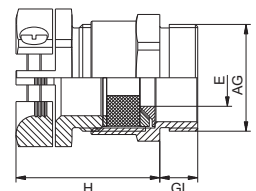
AG	\varnothing mm	GL mm	H mm	\varnothing mm	E mm	Number
PG 9	4–10	7	17	17/15	6	1.680.0906.01
PG 11	6,5–12	7	20	20/18	8	1.680.1108.01
PG 13,5	6,5–13,5	8	21	22/20	10	1.680.1310.01
PG 13,5	6,5–13,5	8	21	22/20	12	1.680.1312.01
PG 16	6,5–16	8	24	24/22	12	1.680.1612.01
PG 16	6,5–16	8	24	24/22	14	1.680.1614.01
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)


Advice:

- Please see page 89 for suitable thread seal ring

AG	\varnothing mm	GL mm	H mm	\varnothing 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

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 66/911 10-0

GM-FS

Metr., PG, NPT



Material Polyamide V0 according to UL 94

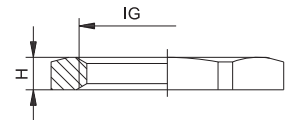


Operating Temperature -40 °C – 100 °C (-40 °F – 212 °F)



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

V-N-FS Metr.

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

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

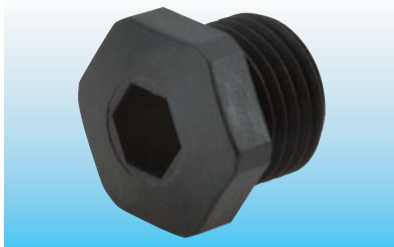
Advice:
- Other colors upon request

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

Accessories

V-NE / V-NE-SD

Metr.



Material Polyamide, fiber reinforced



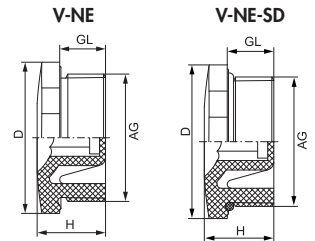
Operating Temperature -20 °C – 80 °C (-4 °F – 176 °F)



O-Ring Buna-N

Colors black (RAL 9005)

Protection IP 54 (V-NE)
IP 68 – 10 bar / IP 69K (V-NE-SD)

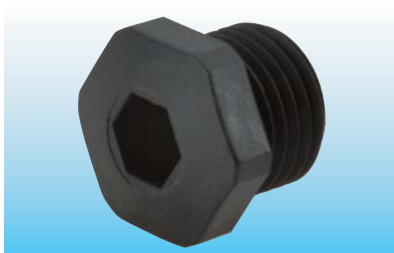


Advice:
- Other colors upon request
- Please find more O-Rings on page 88

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



Material Polyamide, fiber reinforced

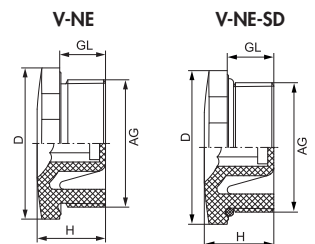


Operating Temperature -20 °C – 80 °C (-4 °F – 176 °F)

O-Ring Buna-N

Colors black (RAL 9005)

Protection IP 54 (V-NE)
IP 68 – 10 bar / IP 69K (V-NE-SD)



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

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

DS **Metr.**

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.**

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

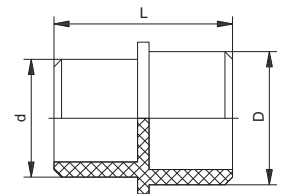
AG	GL mm	Ø mm	mm	Number
M 16 x 1,5	9	19,8	15	1.282.1600.50
M 20 x 1,5	12	24	19	1.282.2000.50
M 25 x 1,5	12	29,5	24	1.282.2500.50
M 32 x 1,5	14	37,5	30	1.282.3200.50
M 40 x 1,5	14	45,8	37	1.282.4000.50
M 50 x 1,5	18	55,8	46	1.282.5000.50
M 63 x 1,5	20	68,8	56	1.282.6300.50

HSK-V

Metr., PG, NPT



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



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

R-FS

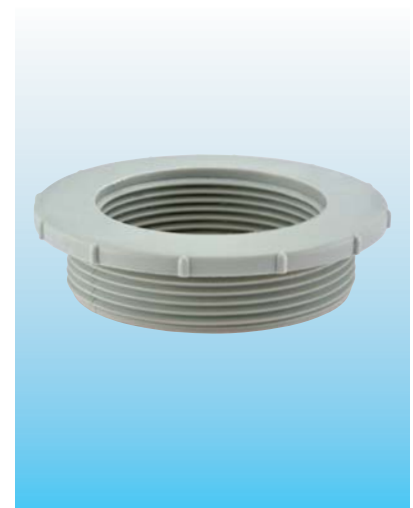
Metr., PG



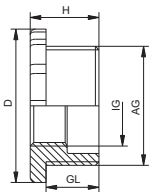
Material Styrene Butadiene / Polyamide

Operating Temperature -20 °C – 70 °C (-4 °F – 156 °F) (Styrene Butadiene)
-40 °C – 80 °C (-40 °F – 176 °F) (Polyamide)

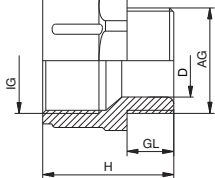
Colors grey (RAL 7035)



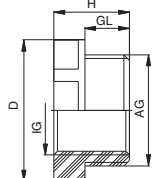
Type A



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	

Accessories

R-M-PA

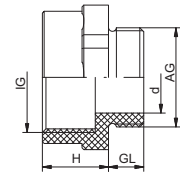
Metr., PG



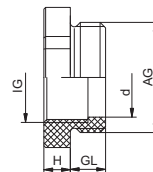
Material	Polyamide (Type A/Type B), Polypropylene (Type C)
Operating Temperature	-20 °C – 80 °C (-4 °F – 176 °F)
Colors	black (RAL 9005)



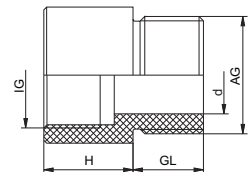
Type A



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

E-M-PA, K-FS

Metr., PG



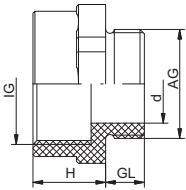
Material Polyamide (Type A/Type B), Polypropylene (Type C)

Operating Temperature -20 °C – 80 °C (-4 °F – 176 °F)

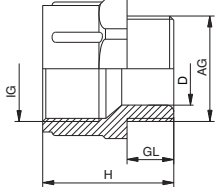
Colors K-FS grey (RAL 7035), E-M-PA black (RAL 9005)



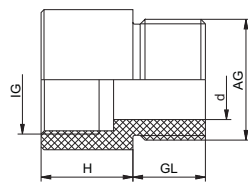
Type A



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

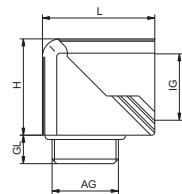
Accessories

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		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

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 25x1,5	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)

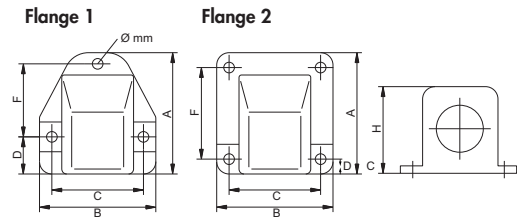
AG	H mm	 mm	Number grey	Number black
M 25x1,5	9	30	1.263.2500.50	1.263.2501.50

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)



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

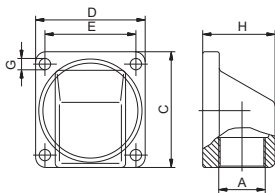
FW-T

PG



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

Accessories

HSK-ME

Metr., PG, NPT



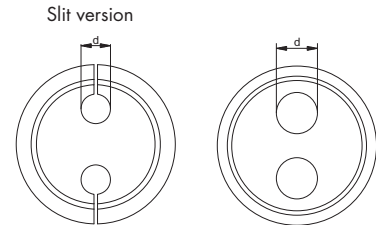
Material Elastomer



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



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 5 x 1,6 4 x 2,3	1.089.0900.19 1.089.0902.19 1.089.0908.19	2 x 3 10 x 1,4 1 x 2,2*	1.089.0901.19 1.089.0904.19 1.089.0916.19	1.089.0999.19
PG 11 / KE PG 9 / KR PG 13,5	M 16 x 1,5 / 16	2 x 3 2 x 4	1.089.1100.19 1.089.1102.19	3 x 3 3 x 1,5	1.089.1101.19 1.089.1103.19	1.089.1199.19
PG 13,5 / KE PG 11 / KR PG 16	M 20 x 1,5 NPT 1/2"	3 x 2 3 x 4 3 x 3	1.089.1300.19 1.089.1302.19 1.089.1304.19	6 x 3 2 x 5 1 x 5*	1.089.1301.19 1.089.1303.19 1.089.1312.19	1.089.1399.19
PG 16 / KE PG 13,5 / KR PG 21	M 16 x 1,5 / 16 NPT 1/2" (16)	4 x 4 6 x 4 6 x 3 4 x 5	1.089.1602.19 1.089.1604.19 1.089.1607.19 1.089.1611.19	5 x 4 2 x 6 3 x 4 2 x 4,5	1.089.1603.19 1.089.1605.19 1.089.1601.19 1.089.1614.19	1.089.1699.19
PG 21 / KE PG 16	M 25 x 1,5 NPT 3/4"	4 x 6 2 x 8 3 x 5,2	1.089.2100.19 1.089.2102.19 1.089.2106.19	3 x 7 4 x 5 1 x 5,8*	1.089.2101.19 1.089.2103.19 1.089.2113.19	1.089.2199.19
PG 29	M 32 x 1,5 NPT 1" / 1 1/4"	6 x 6,5 2 x 6	1.089.2900.19 1.089.2905.19	4 x 9	1.089.2901.19	1.089.2999.19
PG 36	M 40 x 1,5 NPT 1 1/2"	5 x 9 6 x 8	1.089.3600.19 1.089.3602.19	7 x 9 2 x 15	1.089.3601.19 1.089.3603.19	1.089.3699.19
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

HSK-FLAKA

Metr., PG, NPT

RoHS

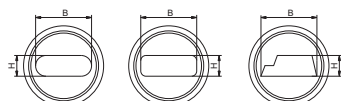
Material Elastomer

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



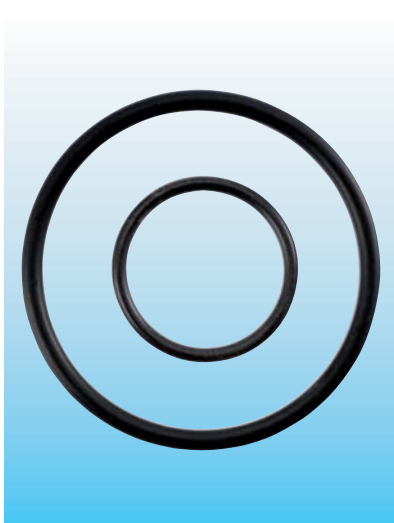
Fits the following sizes		w x h mm	Number	w x h mm	Number
PG 13 (ASI-BUS)	M 20 x 1,5	NPT 1/2"	10,4 x 4,2	1.091.1300.19	
PG 16/KE PG 13,5 / KR PG 21		NPT 1/2" (16)	14 x 6	1.091.1600.19	11,5 x 5
PG 16/KE PG 13,5 / KR PG 21		NPT 1/2" (16)	12 x 7	1.091.1602.19	
PG 21/KE PG 16	M 25 x 1,5	NPT 3/4"	14 x 6	1.091.2100.19	14 x 7
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
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

Accessories

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

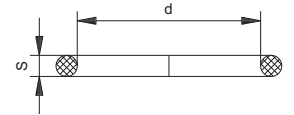
Material FPM

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	1.321.3400.77	1.321.3400.78	1.321.3400.79
NPT 1"	29	2	1.321.1000.77	1.321.1000.78	1.321.1000.79
NPT 1 1/4"	38	2,5	1.321.5400.77	1.321.5400.78	1.321.5400.79
NPT 1 1/2"	45	2,5	1.321.6400.77	1.321.6400.78	1.321.6400.79

Thread Seal Ring Metr.

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

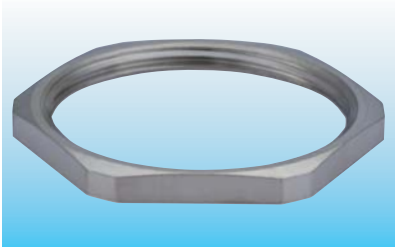
Material Fiber-reinforced plastic

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

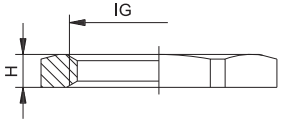
Accessories



GM-Ms Metr., PG, G




Material Nickel plated brass





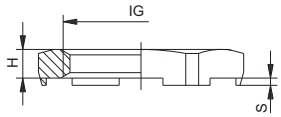
IG	H mm	 mm	Number	IG	H mm	 mm	Number
M 12 x 1,5	2,8	15	1.161.1200.50	PG 7	2,8	15	1.161.0700.01
M 16 x 1,5	2,8	19	1.161.1600.50	PG 9	2,8	18	1.161.0900.01
M 20 x 1,5	3,0	23	1.161.2000.50	PG 11	3,0	21	1.161.1100.01
M 25 x 1,5	3,5	29	1.161.2500.50	PG 13,5	3,0	23	1.161.1300.01
M 32 x 1,5	4,0	36	1.161.3200.50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

V-N-Ms Metr., PG

Material Nickel plated brass

Protection IP 54

AG	GL mm	H mm	D mm	Number	AG	GL mm	H mm	D mm	Number
M 12 x 1,5	5	7,5	14	1.052.1200.50	PG 7	5	8	14	1.052.0700.01
M 16 x 1,5	5	9,0	18	1.052.1600.50	PG 9	6	9	17	1.052.0900.01
M 20 x 1,5	6,5	9,5	22	1.052.2000.50	PG 11	6	9	20	1.052.1100.01
M 25 x 1,5	7	11,0	28	1.052.2500.50	PG 13,5	6,5	9,5	22	1.052.1300.01
M 32 x 1,5	8	12,0	35	1.052.3200.50	PG 16	6,5	9,5	24	1.052.1600.01
M 40 x 1,5	8,5	13,0	44	1.052.4000.50	PG 21	7	11	30	1.052.2100.01
M 50 x 1,5	9	15,0	54	1.052.5000.50	PG 29	8	12	39	1.052.2900.01
M 63 x 1,5	10	16,0	67	1.052.6300.50	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)

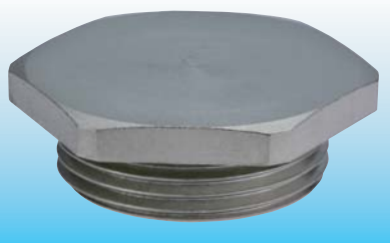
Advice:

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

AG	GL mm	H mm	D mm	Number	AG	GL mm	H mm	D mm	Number
M 12 x 1,5	6,5	9,5	14	1.052.1201.50	PG 7	4,8	8	14	1.052.0701.01
M 16 x 1,5	6	9	20	1.052.1601.50	PG 9	5,5	9	17	1.052.0901.01
M 20 x 1,5	6,5	9,5	24	1.052.2001.50	PG 11	5,5	9	20	1.052.1101.01
M 25 x 1,5	7	11	28	1.052.2501.50	PG 13,5	6	9,5	22	1.052.1301.01
M 32 x 1,5	8	12,5	35	1.052.3201.50	PG 16	6	9,5	24	1.052.1601.01
M 40 x 1,5	8	12	45	1.052.4001.50	PG 21	6,5	11	30	1.052.2101.01
M 50 x 1,5	9	15	55	1.052.5001.50	PG 29	7,5	12	39	1.052.2901.01
M 63 x 1,5	10	16	68	1.052.6301.50	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

Accessories

V-NE-Ms Metr.



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

Material Nickel plated brass


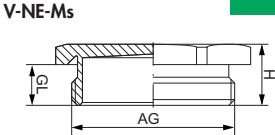
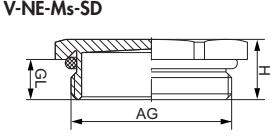
V-NE-Ms


Protection IP 54

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

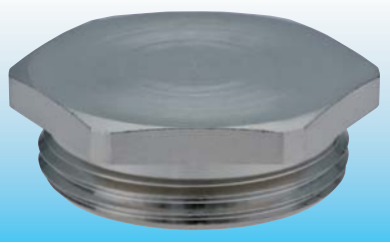
Protection IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)

O-Ring / Operating Temperature Buna-N/ -20°C – 95°C (-4°F – 203°F)
 FPM/ -20°C – 180°C (-4°F – 356°F)

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


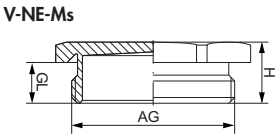
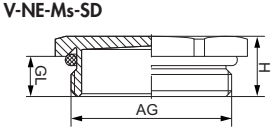
V-NE-Ms


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)

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

R-H

Metr., PG

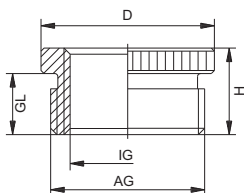


Material

Nickel plated brass

Advice:

- Metric threads with O-Ring thread seal available

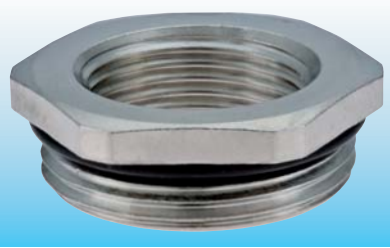


AG	IG	GL mm	H mm	D mm	Number
M 16 x 1,5	M 12 x 1,5	6,0	8,5	18	1.076.1612.50
M 20 x 1,5	M 12 x 1,5	6,5	9,0	24	1.076.2012.50
M 20 x 1,5	M 16 x 1,5	6,5	9,0	24	1.076.2016.50
M 25 x 1,5	M 16 x 1,5	7,0	10,0	30	1.076.2516.50
M 25 x 1,5	M 20 x 1,5	7,0	10,0	30	1.076.2520.50
M 32 x 1,5	M 20 x 1,5	8,0	11,5	39	1.076.3220.50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

Accessories

RSD-Ms

Metr.



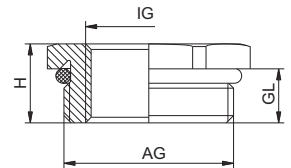
Material Nickel plated brass



O-Ring Buna-N



Operating Temperature -40°C – 100°C



Advice:

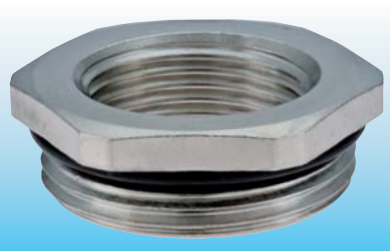
- Other O-Ring materials upon request

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

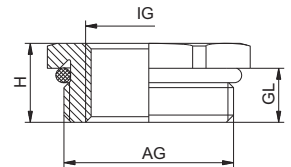


Material Nickel plated brass



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

RE-Ms **Metr., PG**

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**

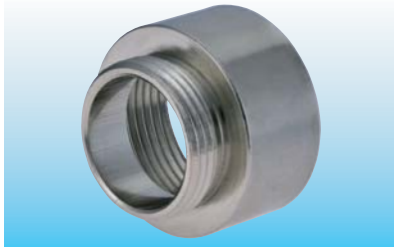
Material Nickel plated brass

O-Ring NBR

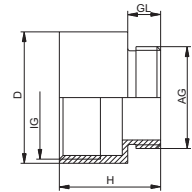
AG	IG	GL mm	H mm	D mm	mm	Number
M 16 x 1,5	NPT 1/2"	6	17		24	1.171.1612.50
M 20 x 1,5	NPT 1/2"	6	17		24	1.171.2012.50
M 25 x 1,5	NPT 1/2"	7	8		30	1.171.2512.50
M 25 x 1,5	NPT 3/4"	7	19		30	1.171.2534.50
M 32 x 1,5	NPT 1"	8	25		40	1.171.3210.50
M 32 x 1,5	NPT 1 1/4"	8	25		46	1.171.3254.50
PG 11	NPT 1/2"	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

E-Ms

Metr.



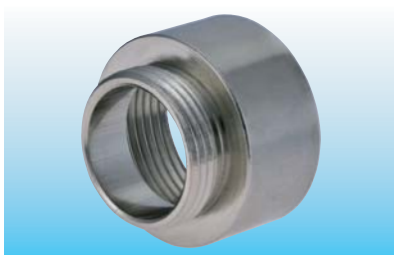
Material Nickel plated brass



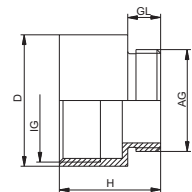
AG	IG	GL mm	H mm	D mm	Number
M 12 x 1,5	M 16 x 1,5	5	15	18	1.033.1216.50
M 16 x 1,5	M 20 x 1,5	6	17,5	22	1.033.1620.50
M 20 x 1,5	M 25 x 1,5	6,5	19	27	1.033.2025.50
M 25 x 1,5	M 32 x 1,5	6,5	21	34	1.033.2532.50
M 32 x 1,5	M 40 x 1,5	7	23	42	1.033.3240.50
M 40 x 1,5	M 50 x 1,5	9	31	53	1.033.4050.50
M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

KLE **Metr.**

Material Nickel plated brass

AG	GL	H mm	 mm	\varnothing 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

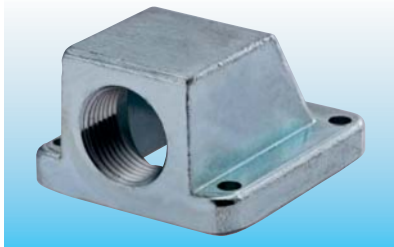
KLE **PG**

Material Nickel plated brass

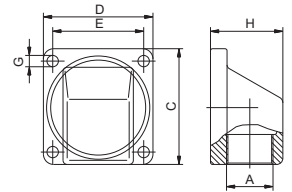
AG	GL	H mm	 mm	\varnothing mm	Number
PG 7	5,5	14,8	16	5,5-8	1.143.0700.01
PG 9	6	16,6	19	6,5-10	1.143.0900.01
PG 11	6	17,3	22	7,5-12	1.143.1100.01
PG 13,5	6,5	17,8	24	8,5-14	1.143.1300.01
PG 16	6,5	18,3	26	9,5-16	1.143.1600.01
PG 21	7,5	20,8	33	12-21	1.143.2100.01
PG 29	8	21,8	42	19-30	1.143.2900.01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

FW-ZN

Metr.



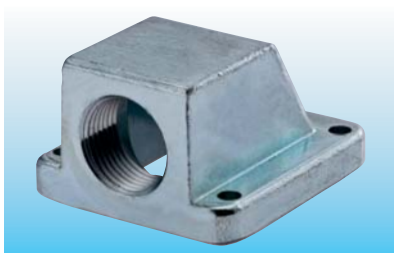
Material	Zinc die casting
Protection	IP 65
O-Ring	Buna-N
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F)



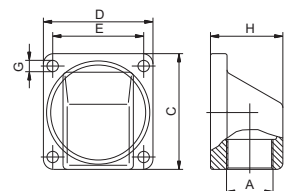
A	C mm	D mm	E mm	G mm	H mm	Number
M 20 x 1,5	56	53	44	5,5	35	1.306.2000.50
M 25 x 1,5	65	63	54	5,5	42	1.306.2500.50
M 32 x 1,5	75	71	60	5,5	52	1.306.3200.50
M 50 x 1,5	93	89	72	6,5	69	1.306.5000.50
M 63 x 1,5	114	96	84	6,5	74	1.306.6300.50

FW-ZN

PG



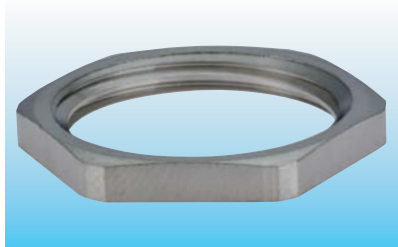
Material	Zinc die casting
Protection	IP 65
O-Ring	Buna-N
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F)



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

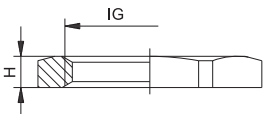
GM-INOX **Metr.**

Material: INOX 1.4305



Advice:

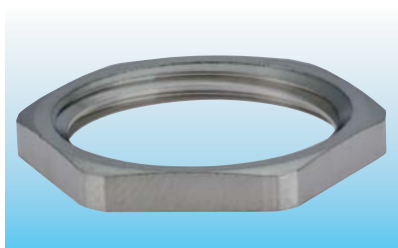
- Other sizes upon request
- Other steel upon request



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

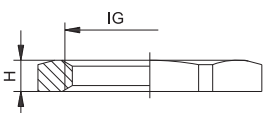
GM-INOX **PG**

Material: INOX 1.4305



Advice:

- Other sizes upon request
- Other steel upon request

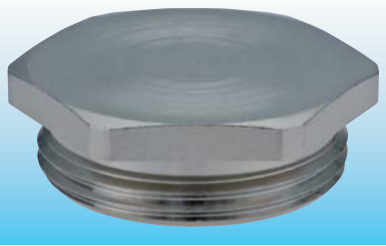


IG mm	H mm	mm	Number
PG 7	2,8	17	1.161.0700.08
PG 9	2,8	22	1.161.0900.08
PG 11	3	22	1.161.1100.08
PG 13,5	3	24	1.161.1300.08
PG 16	3	27	1.161.1600.08
PG 21	3,5	32	1.161.2100.08
PG 29	4	41	1.161.2900.08
PG 36	5	50	1.161.3600.08

Accessories

V-INOX

Metr.



Material INOX 1.4305

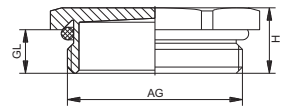


Protection IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)



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)



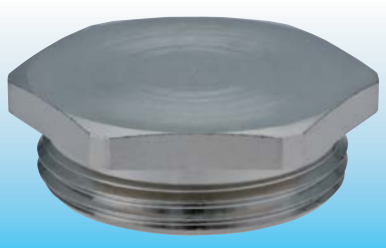
Advice:

- 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



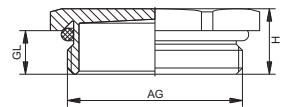
Material INOX 1.4305



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

RS-INOX / RSD-INOX

Metr.

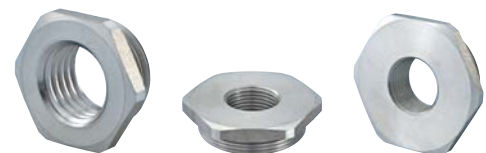
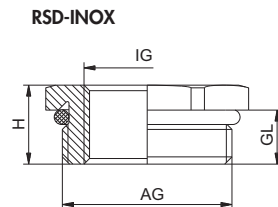
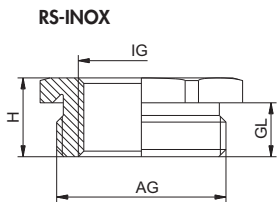


Material INOX 1.4305

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

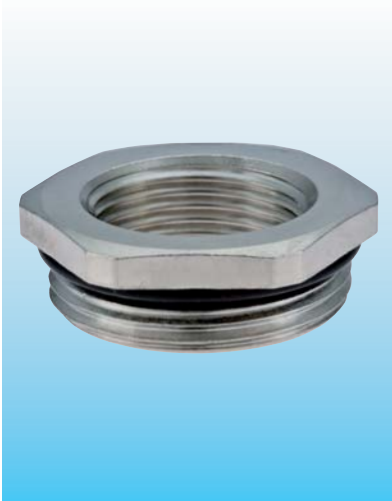


AG	IG	GL mm	H mm	mm	Number RS-INOX without O-Ring	Number RSD-INOX
M 16 x 1,5	M 12 x 1,5	6	9	19	1.094.1612.50	1.097.1612.50
M 20 x 1,5	M 12 x 1,5	6	9,5	22	1.094.2012.50	1.097.2012.50
M 20 x 1,5	M 16 x 1,5	6	9,5	22	1.094.2016.50	1.097.2016.50
M 25 x 1,5	M 16 x 1,5	7	10,5	27	1.094.2516.50	1.097.2516.50
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

Accessories

RS-INOX / RSD-INOX

PG



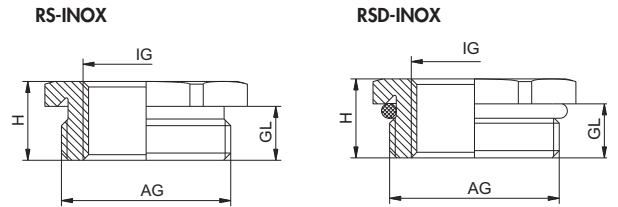
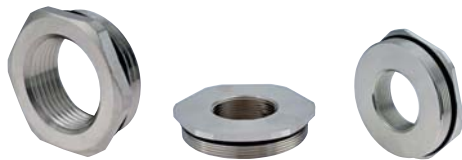
Material INOX 1.4305



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



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

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:

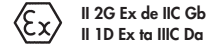
E-Mail: info.et@hummel.com

Tel.: +49 (0) 76 66/9 11 10-0

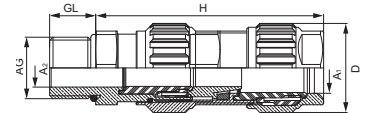
Cable glands for hazardous areas

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)



Advice:
- INOX on request

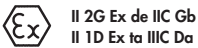


AG	Size	∅ _{A1} mm	∅ _{A2} mm	GL mm	H max. mm	mm	D mm	Armouring ∅ mm			Number
								Clamping ring 1	Clamping ring 2	Clamping ring optional	
M 16 x1,5	20-1	6 - 12	3 - 8,1	16	69,5	22	27	0 - 0,7	0,7 - 1,25		1.605.1600.50
M 20 x1,5	20-1	6 - 12	3 - 8,1	16	69,5	22	27	0 - 0,7	0,7 - 1,25		1.605.2000.50
M 20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

Cable glands for hazardous areas

EXIOS⁺ STANDARD

Metr., NPT



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

IECEx BVS 10.0078X

PG POCC-RU-0001-11TB05

N AEX-13499-X
INMETRO



Material Nickel plated brass

Seal Silicone, VMQ

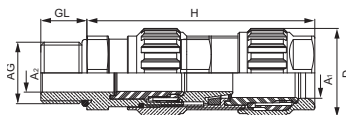
Clamping insert PA 6

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

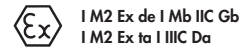


AG	Size	Ø		GL mm	H max. mm	mm	D mm	Armouring Ø mm			Number
		A ₁ mm	A ₂ mm					Clamping ring 1	Clamping ring 2	Clamping ring optional	
M 16 x1,5	20-1	6 - 12	3 - 8,1	16	69,5	22	27	0 - 0,7	0,7 - 1,25		1.605.1603.50
M 20 x1,5	20-1	6 - 12	3 - 8,1	16	69,5	22	27	0 - 0,7	0,7 - 1,25		1.605.2003.50
M 20 x1,5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

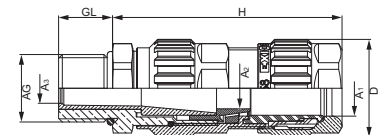
Cable glands for hazardous areas

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)



Advice:
- INOX on request

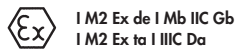


AG	Size	A ₁ mm	A ₂ mm	A ₃ mm	GL mm	H max. mm	mm	D mm	Armouring Ø mm			
									Max. No. cores	Clamping ring 1	Clamping ring 2	Number
M 16 x1,5	20-1	6 - 12	8,2	7,9	16	68,5	22	27	8	0 - 0,7	0,7 - 1,25	1.606.1600.50
M 20 x1,5	20-1	6 - 12	8,2	7,9	16	68,5	22	27	8	0 - 0,7	0,7 - 1,25	1.606.2000.50
M 20 x1,5	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

Cable glands for hazardous areas

EXIOS⁺ BARRIER

Metr., NPT

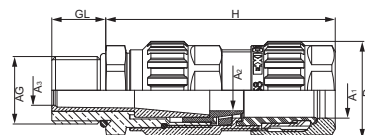


ATEX Sirra-11-ATEX-1110-X



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



AG	Size	A ₁ mm	A ₂ mm	A ₃ mm	GL mm	H max. mm	mm	D mm	Armouring Ø mm			Number
									Max. No. cores	Clamping ring 1	Clamping ring 2	
M 16 x1,5	20-1	6 - 12	8,2	7,9	16	68,5	22	27	8	0 - 0,7	0,7 - 1,25	1.606.1603.50
M 20 x1,5	20-1	6 - 12	8,2	7,9	16	68,5	22	27	8	0 - 0,7	0,7 - 1,25	1.606.2003.50
M 20 x1,5	20-2	9 - 16	12	8,8	16	74,3	24	29	10	0 - 0,7	0,7 - 1,25	1.606.2003.51
M 20 x1,5	20-3	12,5 - 20,5	14	11,5	16	80,5	30	35	15	0 - 0,7	0,7 - 1,4	1.606.2003.52
M 25 x1,5	20-3	12,5 - 20,5	14	11,5	16	80,5	30	35	15	0 - 0,7	0,7 - 1,4	1.606.2503.51
M 25 x1,5	25	16,9 - 26	20	16,4	16	91	36	42	25	0 - 0,7	0,9 - 1,6	1.606.2503.50
M 32 x1,5	32	22 - 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

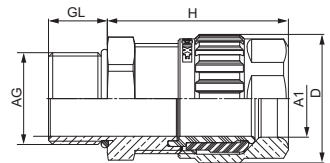
Cable glands for hazardous areas

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)





Advice:
- Aluminum and Stainless Steel on request



AG	Size	∅ _k A1 mm	GL mm	H max. mm	∅ _k 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


Cable glands for hazardous areas

Red Fibre Washer Metr., NPT


GFK thread seal

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




Size	Number	Size	Number
M 16	1.326.1600.50	1/2"	1.326.1200.70
M 20	1.326.2000.50	3/4"	1.326.3400.70
M 25	1.326.2500.50	1"	1.326.1000.70
M 32	1.326.3200.50	1 1/4"	1.326.5400.70
M 40	1.326.4000.50	1 1/2"	1.326.6400.70
M 50	1.326.5000.50	2"	1.326.2000.70
M 63	1.326.6300.50	2 1/2"	1.326.5200.70
M 75	1.326.7500.50	3"	1.326.3000.70

PVC Shroud



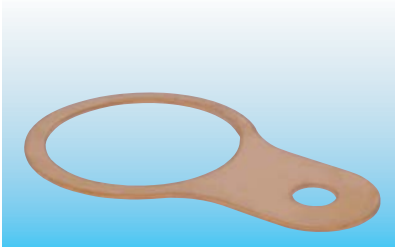
Material	PVC
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Size	Number
20-1	1.802.2000.50
20-2	1.802.2000.51
20-3	1.802.2000.52
25	1.802.2500.50
32	1.802.3200.50
40	1.802.4000.50
50	1.802.5000.50
63	1.802.6300.50
75	1.802.7500.50

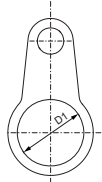
Cable glands for hazardous areas

Earthtag Metr., NPT




Material Brass  



Advice
- INOX on request

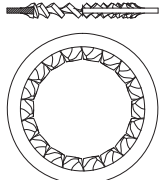


Size	Number	Size	Number
M 16	1.022.1600.50	1/2"	1.022.1200.70
M 20	1.022.2000.50	3/4"	1.022.3400.70
M 25	1.022.2500.50	1"	1.022.1000.70
M 32	1.022.3200.50	1 1/4"	1.022.5400.70
M 40	1.022.4000.50	1 1/2"	1.022.6400.70
M 50	1.022.5000.50	2"	1.022.2000.70
M 63	1.022.6300.50	2 1/2"	1.022.5200.70
M 75	1.022.7500.50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

Serrated Washer Metr., NPT



Material INOX  



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

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 66/9 11 10-0

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

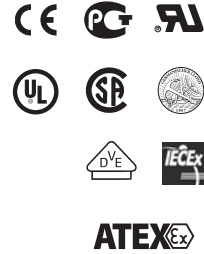
HSK Ex-e Standard cable glands

HSK-K-Ex

Metr.

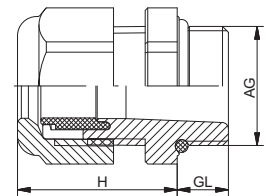


Material	Polyamide V0 according to UL 94
Seal	Bung-N
O-Ring	Bung-N
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG) within the specified clamping range
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F)
Colors	grey (RAL 7035) black (RAL 9005), blue (RAL 5012)



II 2G 1D

For the international certificates
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AG	\varnothing mm	GL mm	H mm	\varnothing 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

HSK Ex-e Standard cable glands

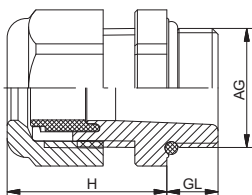
HSK-K-Ex

Metr.-elongated



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

Material	Polyamide VO 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	\varnothing mm	GL mm	H mm	\varnothing 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

HSK-K-Ex

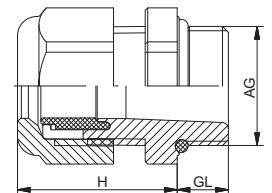
PG



Material	Polyamide V0 according to UL 94
Seal	Bung-N
O-Ring	Bung-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	\varnothing mm	GL mm	H mm	\varnothing 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

HSK Ex-e Standard cable glands

HSK-K-Ex

PG-elongated

RoHS



Material Polyamide V0 according to UL 94



Seal Buna-N

II 2G 1D



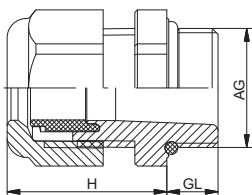
O-Ring Buna-N

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)

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

Colors grey (RAL 7035)
black (RAL 9005), blue (RAL 5012)



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

HSK-K-Ex

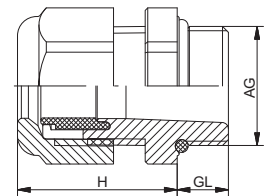
NPT



Material	Polyamide V0 according to UL 94
Seal	Bung-N
O-Ring	Bung-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	\varnothing mm	GL mm	H mm	\varnothing 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

HSK Ex-e Standard cable glands

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

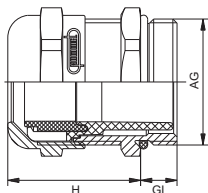
Clamping insert Polyamide / PVDF

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	\varnothing mm	GL mm	H mm	\varnothing 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

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

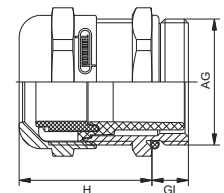
Metr.-elongated



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)



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



AG	\varnothing mm	GL mm	H mm	\varnothing 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

HSK Ex-e Standard cable glands

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

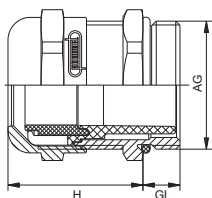
O-Ring Buna-N / FPM

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)



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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	1.660.1000.70
NPT 1"	13 – 20	19	29	40	1.610.1000.71	1.640.1000.71	1.660.1000.71

➔ Accessories see page 73 and 143

HSK Ex-e Standard cable glands

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

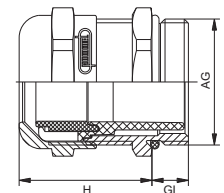
PG-elongated



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)



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



AG	\varnothing mm	GL mm	H mm	\varnothing 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

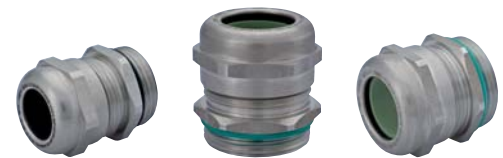
HSK Ex-e Standard cable glands

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

Metr.

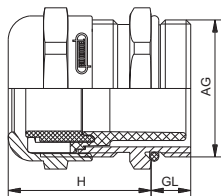


Material	INOX (1.4305)
Clamping insert	Polyamide / PVDF
Seal	Buna-N / FPM
O-Ring	Buna-N / FPM
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG) within the specified clamping range
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F) / -60 °C – 95 °C (-76 °F – 203 °F) / -20 °C – 130 °C (-4 °F –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



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

Advice:
- AISI 316L on request



AG	\varnothing mm	GL mm	H mm	\varnothing 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

HSK Ex-e Standard cable glands

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

PG

Material INOX (1.4305)

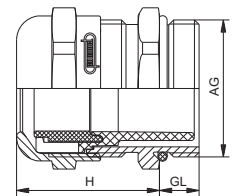
Clamping insert Polyamide / PVDF

Seal Buna-N / FPM

II 2G 1D
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:
 - AISI 316L on request


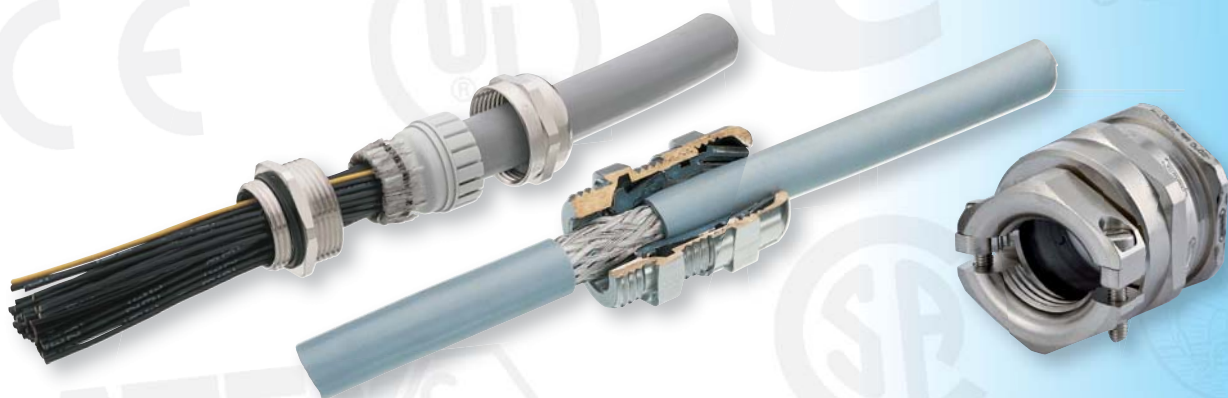
AG	\varnothing mm	GL mm	H mm	 mm	Number HSK-INOX-Ex -20 °C – 95 °C (-4 °F – 203 °F)	Number HSK-INOX-Ex -60 °C – 95 °C (-76 °F – 203 °F)	Number HSK-INOX-PVDF-Ex -20 °C – 130 °C (-4 °F – 266 °F)
PG 7	3 – 6,5	5	19	14	1.612.0700.01	1.642.0700.01	1.662.0700.01
PG 7	2 – 5	5	19	14	1.612.0700.15	1.642.0700.15	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

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 66/9 11 10-0

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-EMC-Ex-e cable glands

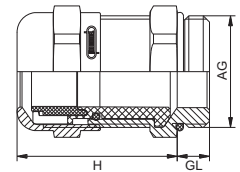
HSK-M-EMV-D-Ex

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)



AG	\varnothing 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

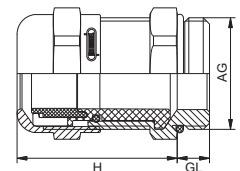
HSK-M-EMV-D-Ex

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)



AG	\varnothing 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

HSK-EMC-Ex-e cable glands

HSK-M-EMV-D-Ex

PG

RoHS



II 2G 1D



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

Material Nickel plated brass

Clamping insert Metalised Polyamide

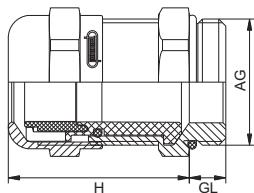
Seal Buna-N

O-Ring Buna-N

Protection IP 68 – 10 bar / IP 69K 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



AG	\varnothing mm	GL mm	H mm	\varnothing 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.



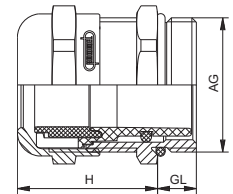
Material	Nickel plated brass
Clamping insert	Polyamide
Seal	Buna-N
O-Ring	Buna-N
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG) within the specified clamping range
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F) / -60 °C – 95 °C (-76 °F – 203 °F)



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

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	\varnothing mm	GL mm	H mm	\varnothing 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

HSK-EMC-Ex-e cable glands

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

PG, NPT

RoHS



Material Nickel plated brass



Clamping insert Polyamide / PVDF

II 2G 1D



Seal Buna-N / FPM

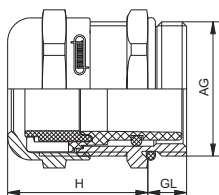
O-Ring Buna-N / FPM

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.



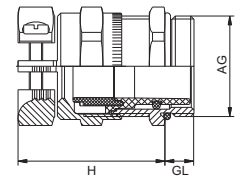
Material	Nickel plated brass
Clamping insert	Polyamide
Seal	Buna-N
O-Ring	Buna-N
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG) within the specified clamping range
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F) / -60 °C – 95 °C (-76 °F – 203 °F)



Advice:
- Elongated threads on request

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	\varnothing mm	GL mm	H mm	\varnothing 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

HSK-EMC-Ex-e cable glands

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

PG

RoHS



Material Nickel plated brass



Clamping insert Polyamide / PVDF

II 2G 1D



Seal Buna-N / FPM

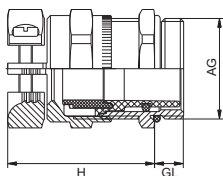
O-Ring Buna-N / FPM

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	\varnothing mm	GL mm	H mm	\varnothing 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

HSK-EMC-Ex-e cable glands

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

NPT

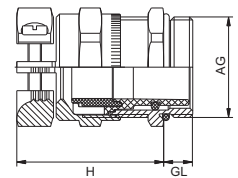


Material	Nickel plated brass
Clamping insert	Polyamide / PVDF
Seal	Buna-N / FPM
O-Ring	Buna-N / FPM
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG) within the specified clamping range
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F) / -60 °C – 95 °C (-76 °F – 203 °F) / -20 °C – 130 °C (-4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



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

II 2G 1D



AG	\varnothing mm	GL mm	H mm	\varnothing 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

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 66/9 11 10-0

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



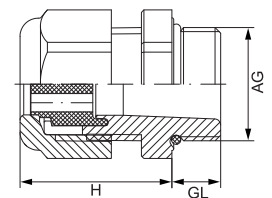
Operating Temperature -20 °C – 95 °C (-4 °F – 203 °F)

Colors grey (RAL 7035), black (RAL 9005)

O-Ring Buna-N

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	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

HSK Ex-e cable glands for special applications

HSK-K-FLAKA-Ex

Metr., PG, NPT



II 2G 1D



Material Polyamide VO according to UL 94

Seal Elastomer

Protection IP 68

Operating Temperature -20 °C – 95 °C (-4 °F – 203 °F)

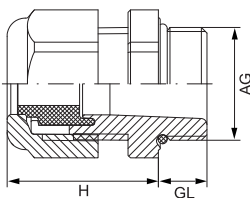
Colors grey (RAL 7035), black (RAL 9005)

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

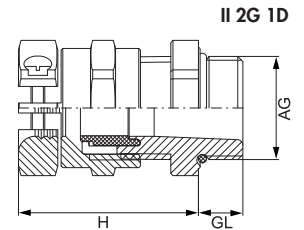
HSK-K-MZ-Ex

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)



AG	\varnothing mm	GL mm	H mm	\varnothing mm	Number
M 16 x 1,5	4 – 8	15	29	19	1.215.1601.50
M 20 x 1,5	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

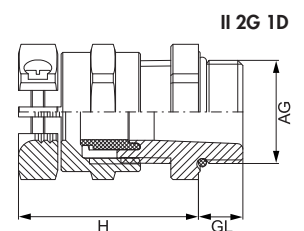
HSK-K-MZ-Ex

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)



AG	\varnothing mm	GL mm	H mm	\varnothing mm	Number
PG 9	4 – 8	15	29	19	1.215.0901.14
PG 11	6 – 10	15	32,5	22	1.215.1101.14
PG 13,5	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

HSK Ex-e cable glands for special applications

HSK-M-Multi-Ex

Metr., PG, NPT



II 2G 1D



Material Nickel plated brass

Clamping insert Polyamide

Seal Elastomer

O-Ring Buna-N

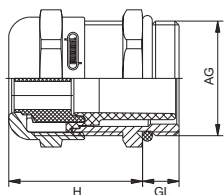
Protection IP 68

Operating Temperature -20 °C – 95 °C (-4 °F – 203 °F)

Advice:
- Stainless steel on request



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	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

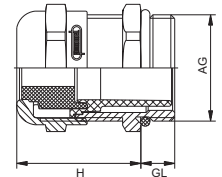
Metr.



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



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

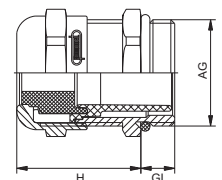
PG, NPT



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



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

HSK Ex-e cable glands for special applications

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

Metr.



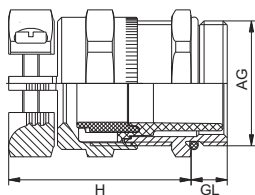
II 2G 1D



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 (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:
- Elongated threads on request.



AG	mm	GL	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

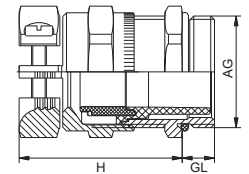
PG



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)



II 2G 1D



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

Advice:
- Elongated threads on request.

AG	\varnothing mm	GL mm	H mm	\varnothing 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

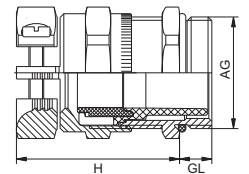
NPT



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)



II 2G 1D



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

Advice:
- Elongated threads on request.

AG	\varnothing mm	GL mm	H mm	\varnothing 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

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 66/9 11 10-0

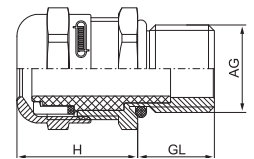
HSK-Ex-d standard cable glands

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	\varnothing mm	GL mm	H mm	\varnothing 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

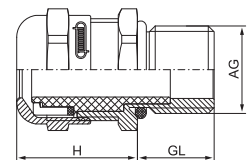
➔ Accessories see page 73 and 143

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	\varnothing mm	GL mm	H mm	\varnothing 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	1.634.1000.70
NPT 1"	14 – 20	25	32	40	1.622.1000.71	1.634.1000.71
NPT 1 1/4"	22 – 32	26	38,5	50	1.622.5400.70	1.634.5400.70
NPT 1 1/4"	20 – 26	26	38,5	50	1.622.5400.71	1.634.5400.71
NPT 1 1/2"	22 – 32	26,5	38,5	50	1.622.6400.70	1.634.6400.70
NPT 1 1/2"	20 – 26	26,5	38,5	50	1.622.6400.71	1.634.6400.71

➔ Accessories see page 73 and 143

HSK-Ex-d standard cable glands

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.

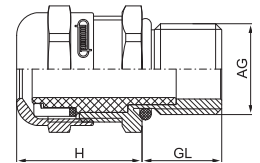


For the international certificates please see page 176 or our homepage www.hummel.com

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	\varnothing mm	GL mm	H mm	\varnothing 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

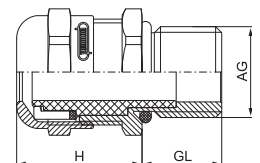


For the international certificates please see page 176 or our homepage www.hummel.com

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	\varnothing mm	GL mm	H mm	\varnothing 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

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



Ex accessories

V-Ex

Metr.

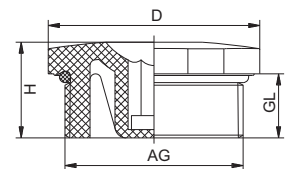


Material	Polyamide, fiber reinforced
O-Ring	Buna-N
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-20 °C – 90 °C (-4 °F – 194 °F)
Colors	black (RAL 9005)



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

V-Ex

PG

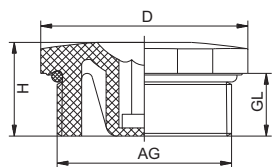




Material	Polyamide, fiber reinforced
O-Ring	Buna-N
Protection	IP 68 – 10 bar/IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-20 °C – 90 °C (-4 °F – 194 °F)
Colors	black (RAL 9005)



II 2G I D

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 please see page 176 or our homepage
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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

Ex accessories

HSK-V-Ex

Metr., PG, NPT

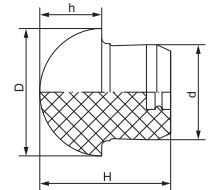


Material Elastomer

Operating Temperature -40 °C – 95 °C (-40 °F – 203 °F)

Colors black (RAL 9005)

Advice:
- Elongated threads on request



II 2G 1D

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

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

HSK-V-Ex MZ variety

Metr., PG, NPT

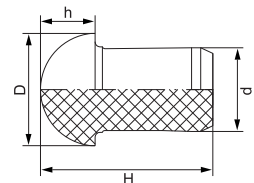


Material Elastomer

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



II 2G 1D

For the international certificates
please see page 176 or our homepage
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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

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)

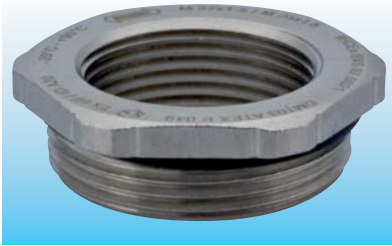
For the international certificates please see page 176 or our homepage www.hummel.com

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

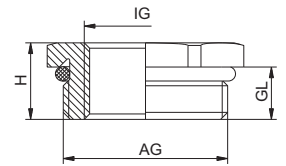
Metr.



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

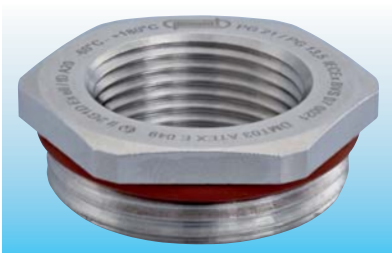


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AG	IG	GL mm	H mm	Number Buna-N -20°C – 95°C (-4°F – 203°F)	Number VMQ -60°C – 180°C (-76°F – 356°F)	AG	IG	GL mm	H mm	Number Buna-N -20°C – 95°C (-4°F – 203°F)	Number VMQ -60°C – 180°C (-76°F – 356°F)
M 16 x 1,5	M 12 x 1,5	5	17	1.078.1612.50	1.079.1612.50	M 50 x 1,5	M 32 x 1,5	9	55	1.078.5032.50	1.079.5032.50
M 20 x 1,5	M 12 x 1,5	6	22	1.078.2012.50	1.079.2012.50	M 50 x 1,5	M 40 x 1,5	9	55	1.078.5040.50	1.079.5040.50
M 20 x 1,5	M 16 x 1,5	6	22	1.078.2016.50	1.079.2016.50	M 63 x 1,5	M 32 x 1,5	10	65	1.078.6332.50	1.079.6332.50
M 25 x 1,5	M 16 x 1,5	7	29	1.078.2516.50	1.079.2516.50	M 63 x 1,5	M 40 x 1,5	10	65	1.078.6340.50	1.079.6340.50
M 25 x 1,5	M 20 x 1,5	7	29	1.078.2520.50	1.079.2520.50	M 63 x 1,5	M 50 x 1,5	10	65	1.078.6350.50	1.079.6350.50
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						

RSD-MS-Ex

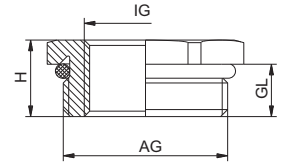
PG



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



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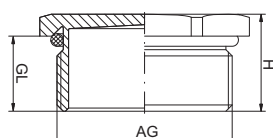
AG	IG	GL mm	H mm	H1 mm	Number Buna-N -20°C – 95°C (-4°F – 203°F)	Number VMQ -60°C – 180°C (-76°F – 356°F)	AG	IG	GL mm	H mm	H1 mm	Number Buna-N -20°C – 95°C (-4°F – 203°F)	Number VMQ -60°C – 180°C (-76°F – 356°F)
PG 9	PG 7	6	8,8	17	1.078.0907.01	1.079.0907.01	PG 36	PG 21	9	12,5	50	1.078.3621.01	1.079.3621.01
PG 11	PG 7	6	9	20	1.078.1107.01	1.079.1107.01	PG 36	PG 29	9	12,5	50	1.078.3629.01	1.079.3629.01
PG 11	PG 9	6	9	20	1.078.1109.01	1.079.1109.01	PG 42	PG 29	10	13,5	57	1.078.4229.01	1.079.4229.01
PG 13,5	PG 9	6,5	9,5	22	1.078.1309.01	1.079.1309.01	PG 42	PG 36	10	13,5	57	1.078.4236.01	1.079.4236.01
PG 16	PG 9	6,5	9,5	24	1.078.1609.01	1.079.1609.01	PG 48	PG 36	10	13,5	64	1.078.4836.01	1.079.4836.01
PG 16	PG 11	6,5	9,5	24	1.078.1611.01	1.079.1611.01	PG 48	PG 42	10	13,5	64	1.078.4842.01	1.079.4842.01
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							

V-Ms-Ex-d
Metr., NPT

II 2G 1D Ex d IIC

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

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)

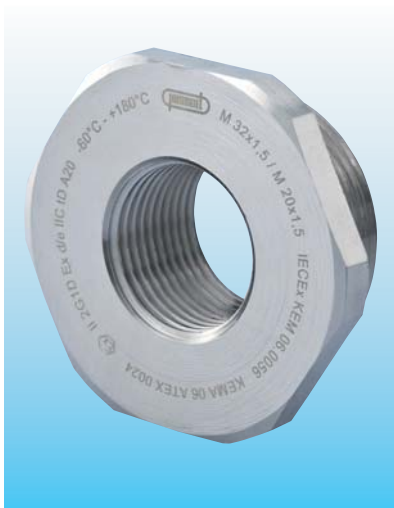


AG	GL mm	H mm	mm	Number without O-Ring	Number Buna-N -20 °C – 95 °C (-4 °F – 203 °F)	Number FPM -20 °C – 180 °C (-4 °F – 356 °F)	Number VMQ -60 °C – 180 °C (-76 °F – 356 °F)
M 12 x 1,5	16	21	14		1.875.1200.50	1.876.1200.50	1.877.1200.50
M 16 x 1,5	16	20	19		1.875.1600.50	1.876.1600.50	1.877.1600.50
M 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			

Ex accessories

RSD-Ms-Ex-d

Metr.



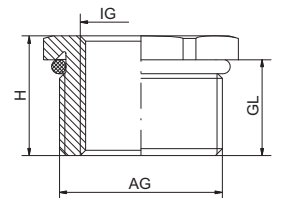
Material	Nickel plated brass
O-Ring	Buna-N / VMQ
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-20°C – 95°C (-4°F – 203°F) (Buna-N) -60°C – 180°C (-76°F – 356°F) (VMQ)



II 2G 1D Ex d IIC



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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

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)

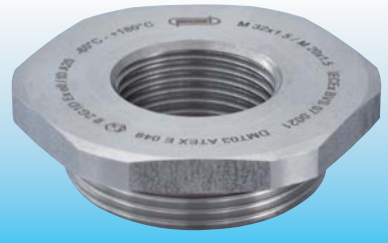
For the international certificates please see page 176 or our homepage www.hummel.com

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

Ex accessories

RSD-INOX-Ex

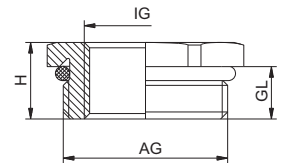
Metr.



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

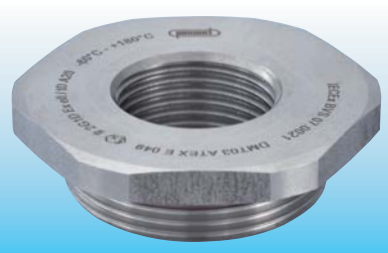


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AG	IG	GL mm	mm	Number		AG	IG	GL mm	mm	Number	
				Buna-N -20 °C – 95 °C (-4 °F – 203 °F)	VMQ -60 °C – 180 °C (-76 °F – 356 °F)					Buna-N -20 °C – 95 °C (-4 °F – 203 °F)	VMQ -60 °C – 180 °C (-76 °F – 356 °F)
M 16 x 1,5	M 12 x 1,5	5	17	1.098.1612.50	1.099.1612.50	M 50 x 1,5	M 32 x 1,5	9	55	1.098.5032.50	1.099.5032.50
M 20 x 1,5	M 12 x 1,5	6	22	1.098.2012.50	1.099.2012.50	M 50 x 1,5	M 40 x 1,5	9	55	1.098.5040.50	1.099.5040.50
M 20 x 1,5	M 16 x 1,5	6	22	1.098.2016.50	1.099.2016.50	M 63 x 1,5	M 32 x 1,5	10	65	1.098.6332.50	1.099.6332.50
M 25 x 1,5	M 16 x 1,5	7	27	1.098.2516.50	1.099.2516.50	M 63 x 1,5	M 40 x 1,5	10	65	1.098.6340.50	1.099.6340.50
M 25 x 1,5	M 20 x 1,5	7	27	1.098.2520.50	1.099.2520.50	M 63 x 1,5	M 50 x 1,5	10	65	1.098.6350.50	1.099.6350.50
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						

RSD-INOX-Ex

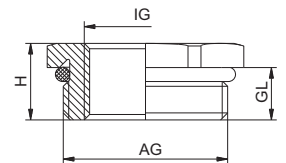
PG



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		AG	IG	GL mm	mm	Number		
					Buna-N -20 °C – 95 °C (-4 °F – 203 °F)	VMQ -60 °C – 180 °C (-76 °F – 356 °F)					Buna-N -20 °C – 95 °C (-4 °F – 203 °F)	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 29	PG 21	8	11,5	40	1.098.2921.01	1.099.2921.01
PG 11	PG 7	6	9	20	1.098.1107.01	1.099.1107.01	PG 36	PG 21	9	12,5	50	1.098.3621.01	1.099.3621.01
PG 11	PG 9	6	9	20	1.098.1109.01	1.099.1109.01	PG 36	PG 29	9	12,5	50	1.098.3629.01	1.099.3629.01
PG 13,5	PG 9	6,5	9,5	22	1.098.1309.01	1.099.1309.01	PG 42	PG 29	10	13,5	57	1.098.4229.01	1.099.4229.01
PG 13,5	PG 11	6,5	9,5	22	1.098.1311.01	1.099.1311.01	PG 42	PG 36	10	13,5	57	1.098.4236.01	1.099.4236.01
PG 16	PG 9	6,5	9,5	24	1.098.1609.01	1.099.1609.01	PG 48	PG 36	10	13,5	64	1.098.4836.01	1.099.4836.01
PG 16	PG 11	6,5	9,5	24	1.098.1611.01	1.099.1611.01	PG 48	PG 42	10	13,5	64	1.098.4842.01	1.099.4842.01
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							

V-INOX-Ex-d

Metr., NPT

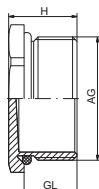



II 2G 1D Ex d IIC

Material INOX (1.4404)

Protection IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)

O-Ring Buna-N / FPM / VMQ

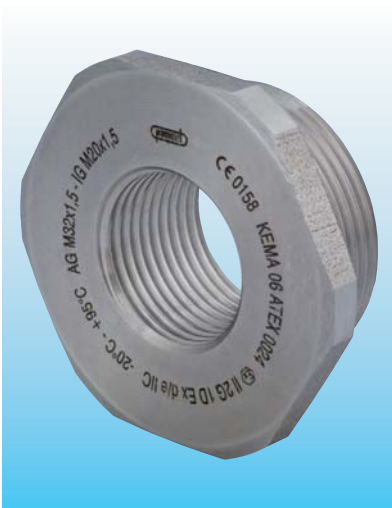
Operating Temperature -20 °C – 95 °C (-4°F – 203°F) (Buna-N)
-20 °C – 180 °C (-4°F – 356°F) (FPM), -60 °C – 180 °C (-76°F – 356°F) (VMQ)For the international certificates
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AG	GL mm	H mm	 mm	Number without O-Ring	Number Buna-N -20 °C – 95 °C (-4 °F – 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			

Ex accessories

RSD-INOX-Ex-d

Metr.



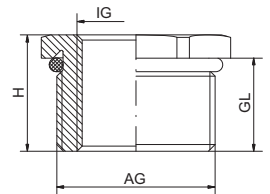
Material	INOX (1.4404)
O-Ring	Buna-N/VMQ
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-20°C – 95°C (-4°F – 203°F) (Buna-N) -60°C – 180°C (-76°F – 356°F) (VMQ)



II 2G 1D Ex d IIC



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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

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

Snapflex Industry standard metric

Snapflex



Material Polyamide

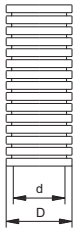


RoHS

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

Snapflex Industry standard metric

Snapsplit



Material Polyamide

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

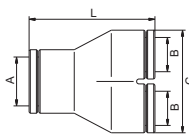
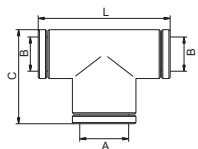
Protection IP42

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

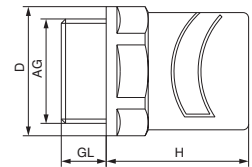
Metr.



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

Snapflex Industry standard metric

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

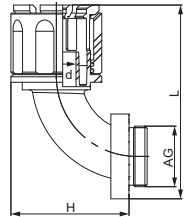
Snapturn 90°

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

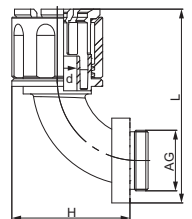
Snapturn-M 90°

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

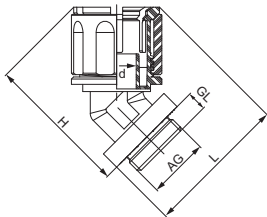


AG	d mm	GL mm	H mm	L mm	mm	fits to Snapflex	Number
M 16 x 1,5	9,5	6	33,5	57	12	16	1.525.1681.50
M 20 x 1,5	12,5	6	39	64	16	20	1.525.2081.50
M 25 x 1,5	17	6,5	48,5	71,5	20	25	1.525.2581.50
M 32 x 1,5	22,5	8	54,5	87,5	27	32	1.525.3281.50
M 40 x 1,5	29	8	68,5	97,2	32	40	1.525.4081.50
M 50 x 1,5	36,5	9	75,5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

Snapflex Industrie Standard metrisch

Snapturn 135°

Metr.



Material Polyamide

Operating Temperature -20 °C – 80 °C

Protection IP 42

Colors black (RAL 9005)

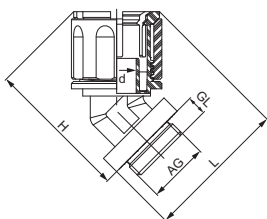
Advice:
- International certificat under development



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

Snapcllic-DUO-PA

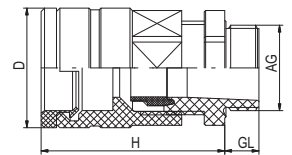
Metr.

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	$\varnothing k$ mm	GL mm	H mm	D mm	\varnothing 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

Snapcllic-DUO-PA

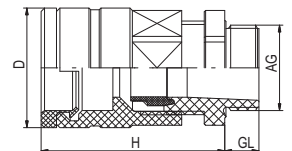
PG

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	$\varnothing k$ mm	GL mm	H mm	D mm	\varnothing 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

Snapflex Industry standard metric

Snapcllic-DUO-Ms Metr.

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

Snapcllic-DUO-Ms PG

Material Nickel plated brass

Clamping insert Polyamide

Seal NBR

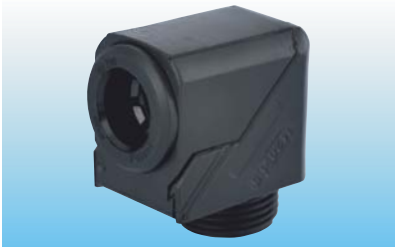
Operating Temperature -40 °C – 100 °C (-40 °F – 212 °F)

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


Snapflex Industry standard metric

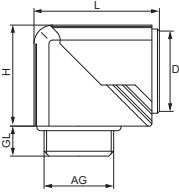
Snapclic-PA-W
Metr.




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

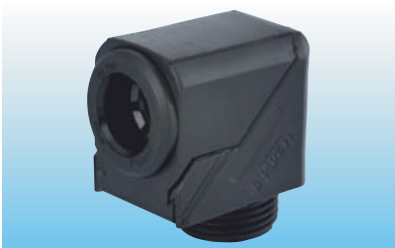
Advice:
- NPT thread on request






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

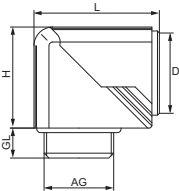
Snapclic-PA-W
PG, NPT




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

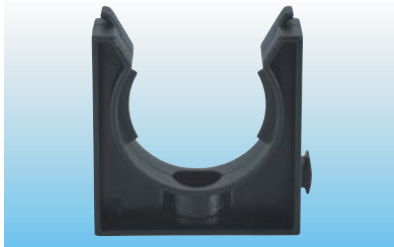
Snapflex Industry standard metric

Snapclic-DUO-PA-W							Metr.	
Advice: - NPT thread on request - DN Corrugated Conduit upon request								
AG	Ø mm	GL mm	H mm	L mm	D mm	Ø 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	
Advice: - NPT thread on request - DN Corrugated Conduit upon request								
AG	Ø mm	GL mm	H mm	L mm	D mm	Ø 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

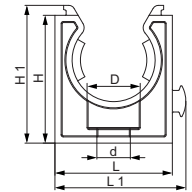


RoHS

Operating Temperature -30 °C – 100 °C (-22 °F – 212 °F)

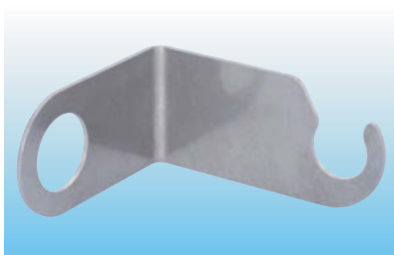
Colors grey (RAL 7031), black (RAL 9005)

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

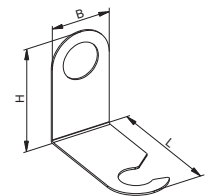
Snapform



Material Special steel



RoHS



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

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.



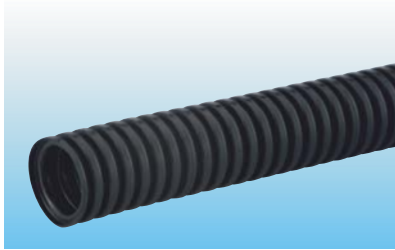
You can find in this chapter:

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



Snapflex-Ex metric

Snapflex-Ex



Material Polyamide



Operating Temperature -20 °C – 95 °C (-4 °F – 203 °F)

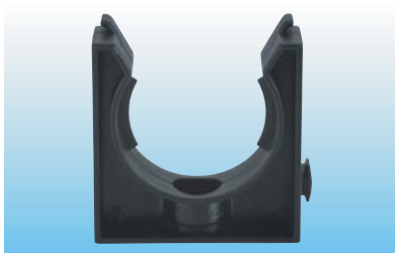
Colors black (RAL 9005)

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



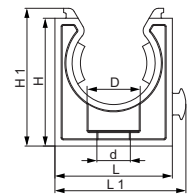
Material Polyamide



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

Snapcllic-DUO-MS-Ex

Metr.



II 2G 1D

Material Nickel plated brass

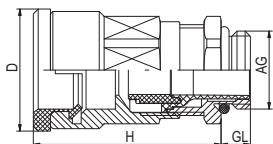
Clamping insert Polyamide

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	\varnothing mm	GL mm	H mm	D mm	\varnothing 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

Snapflex-Ex metric

Snapcllic-DUO-MS-Ex

PG



Material Nickel plated brass



Clamping insert Polyamide

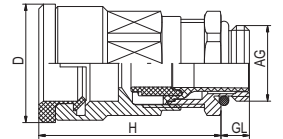
II 2G 1D

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	\varnothing 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

Corrugated conduit systems

DN conduits

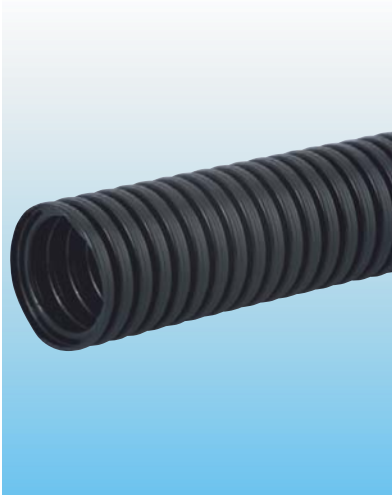
You can find in this chapter:

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

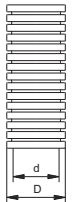


SM-WS-PA

DN



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



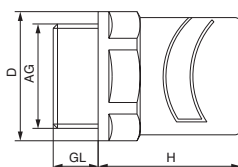
Size DN	Typ	d mm	D mm	Number grey	Number black
10	PA	10	13	1.510.0900.14	1.510.0901.14
12	PA	12	15,5	1.510.1100.14	1.510.1101.14
14	PA	14	18,5	1.510.1300.14	1.510.1301.14
17	PA	16,5	21	1.510.1600.14	1.510.1601.14
23	PA	22,5	28,5	1.510.2100.14	1.510.2101.14
29	PA	28,5	34,5	1.510.2900.14	1.510.2901.14
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

SM-N

Metr., PG, NPT



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

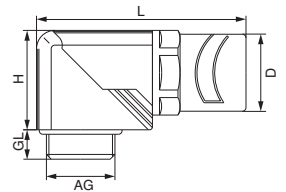
DN conduits

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)



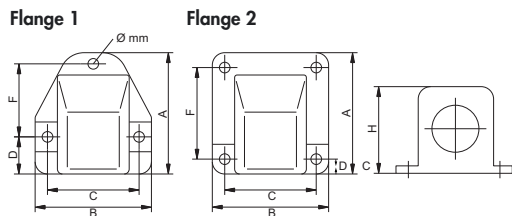
AG	GL mm	H mm	L mm	mm	D mm	fits to SM-Conduit DN	Number
M 16 x 1,5	8	23	43	19	20	10	1.513.1601.50
M 20 x 1,5	9	30,5	52	24	26,5	14	1.513.2001.50
M 25 x 1,5	11	40	70	33	38,5	23	1.513.2501.50
M 32 x 1,5	11	51,5	83	42	46	29	1.513.3201.50
PG 9	8	23	43	19	19	10	1.513.0901.14
PG 11	8	27	48	22	23	12	1.513.1101.14
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

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)



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

Technical Information

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

Approvals for HSK Strain Relief Fittings / Licence Number 40012033

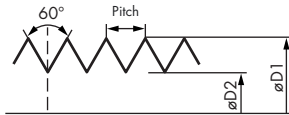
Page	Article	Number	Temperature Range	Approval G (Gas)	Approval D (Dust)	EC-Type Examination Certificate
148	RSD-MS-Ex	1.078.*	-20 °C – 95 °C	x	x	DMT 03 ATEX E 049
148	RSD-MS-Ex	1.079.*	-60 °C – 180 °C	x	x	DMT 03 ATEX E 049
152	RSD-INOX-Ex	1.098.*	-20 °C – 180 °C	x	x	DMT 03 ATEX E 049
152	RSD-INOX-Ex	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	Snapclit-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

1. Code		2. Code	Penetration of water									
Protection against human access to hazardous parts	Protection of equipment against penetration of solid foreign objects		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	
			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 50mm	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 12,5mm	IP 2x	IP 20	IP 21	IP 22	IP 23						
Protected against access to hazardous parts with a tool larger in diameter than 25mm	Protected against solid foreign objects larger in diameter than 2,5mm	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 1,0mm	Protected against solid foreign objects larger in diameter than 1mm	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 1,0mm	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 1,0mm	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	

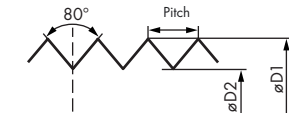
Technical Information

Metric ISO Thread Specifications



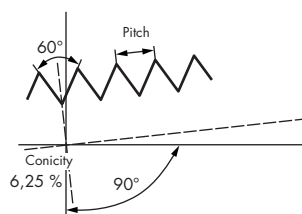
Size	Pitch mm	Outside-Ø D1 mm	Inside-Ø D2 mm	Thru- hole mm
M 12 x 1,5	1,5	12	10,38	12,2
M 16 x 1,5	1,5	16	14,38	16,2
M 20 x 1,5	1,5	20	18,38	20,2
M 25 x 1,5	1,5	25	23,38	25,2
M 32 x 1,5	1,5	32	30,38	32,2
M 40 x 1,5	1,5	40	38,38	40,2
M 50 x 1,5	1,5	50	48,38	50,2
M 63 x 1,5	1,5	63	61,38	63,2

PG Thread Specifications



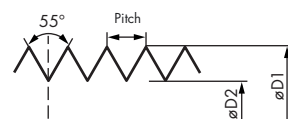
Size	Pitch mm	Outside-Ø D1 mm	Inside-Ø D2 mm	Thru- hole mm
PG 7	1,270	12,5	11,28	12,7
PG 9	1,410	15,2	13,86	15,4
PG 11	1,410	18,6	17,26	18,8
PG 13,5	1,410	20,4	19,06	20,7
PG 16	1,410	22,5	21,16	22,8
PG 21	1,588	28,3	26,78	28,6
PG 29	1,588	37,0	35,48	37,4
PG 36	1,588	47,0	45,48	47,5
PG 42	1,588	54,0	52,48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

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



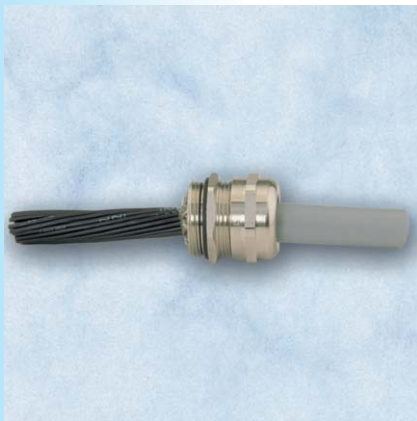
Step 1



- + 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



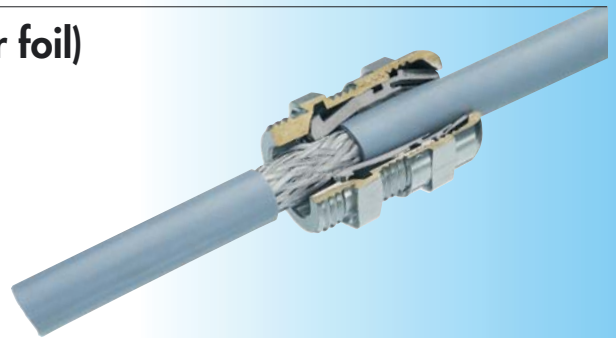
- + Push clamping insert into body and tighten dome nut
- + Assemble into housing
- + Finished!

HSK-M-EMV-D

Option 1

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

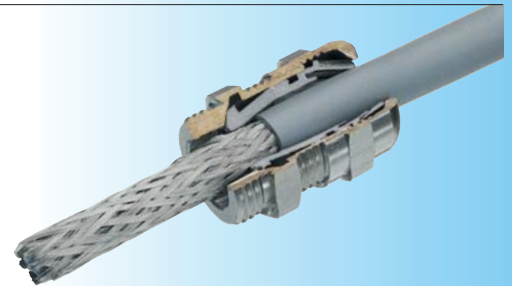
- + Expose shield approximately 7/16" (10 mm)
- + Insert cable into fitting until the shield reaches the contact position
- + Tighten dome nut



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





Setting Standards

www.hummel.com

Notes

Lined area for notes, consisting of multiple horizontal lines within a rectangular frame.

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