

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 121
- ➔ 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 129
- ➔ you can find HSK-Ex-d standard cable glands from page 137

HSK Ex-e Standard cable glands

HSK-K-Ex

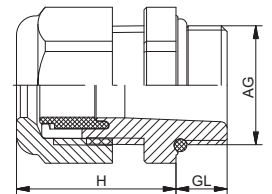
Metr.



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



For the international certificates please see page 174 or our homepage www.hummel.com



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 71 and 141

HSK Ex-e Standard cable glands

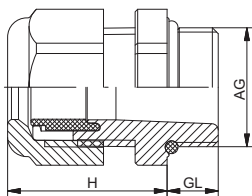
HSK-K-Ex

Metr.-elongated



For the international certificates please see page 174 or our homepage www.hummel.com

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



AG	\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 71 and 141

HSK Ex-e Standard cable glands

HSK-K-Ex

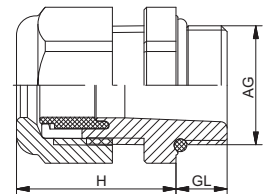
PG



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



For the international certificates please see page 174 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 71 and 141

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

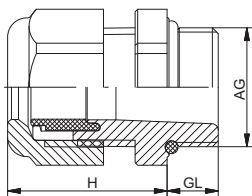
Protection IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
within the specified clamping range

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

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



For the international certificates
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AG	∅k 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 71 and 141

HSK Ex-e Standard cable glands

HSK-K-Ex

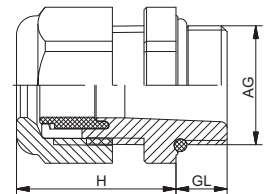
NPT



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



For the international certificates please see page 174 or our homepage www.hummel.com



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

➔ Accessories see page 71 and 141

HSK Ex-e Standard cable glands

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

Metr.



Material Nickel plated brass

Clamping insert Polyamide / PVDF

Seal Buna-N / FPM

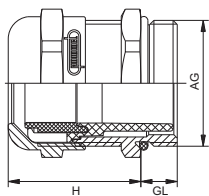
O-Ring Buna-N / FPM

Protection IP 68 – 10 bar / IP 69K 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)
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 71 and 141

HSK Ex-e Standard cable glands

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

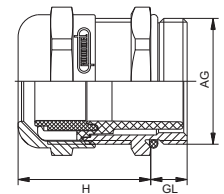
Metr.-elongated



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 174 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 71 and 141

HSK Ex-e Standard cable glands

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

PG, NPT

RoHS



Material Nickel plated brass



Clamping insert Polyamide / PVDF

II 2G 1D



Seal Buna-N / FPM

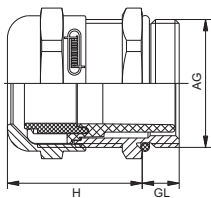
O-Ring Buna-N / FPM

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 174 or our homepage www.hummel.com



AG	mm	GL mm	H mm	mm	Number HSK-M-Ex -20 °C – 95 °C (-4 °F – 203 °F)	Number HSK-M-Ex -60 °C – 95 °C (-76 °F – 203 °F)	Number HSK-M-PVDF-Ex -20 °C – 130 °C (-4 °F – 266 °F)
PG 7	3 – 6,5	5	19	14	1.610.0700.01	1.640.0700.01	1.660.0700.01
PG 7	2 – 5	5	19	14	1.610.0700.15	1.640.0700.15	1.660.0700.15
PG 9	4 – 8	6	21	17	1.610.0900.01	1.640.0900.01	1.660.0900.01
PG 9	2 – 6	6	21	17	1.610.0900.15	1.640.0900.15	1.660.0900.15
PG 11	6 – 10	6	22	20	1.610.1100.01	1.640.1100.01	1.660.1100.01
PG 11	3 – 7	6	22	20	1.610.1100.15	1.640.1100.15	1.660.1100.15
PG 13,5	6 – 12	6,5	24	22	1.610.1300.01	1.640.1300.01	1.660.1300.01
PG 13,5	5 – 9	6,5	24	22	1.610.1300.15	1.640.1300.15	1.660.1300.15
PG 16	10 – 14	6,5	23	24	1.610.1600.01	1.640.1600.01	1.660.1600.01
PG 16	7 – 12	6,5	23	24	1.610.1600.15	1.640.1600.15	1.660.1600.15
PG 21	14 – 18	7	24	30	1.610.2100.01	1.640.2100.01	1.660.2100.01
PG 21	10 – 16	7	24	30	1.610.2100.15	1.640.2100.15	1.660.2100.15
PG 29	20 – 25	8	29	40	1.610.2900.01	1.640.2900.01	1.660.2900.01
PG 29	13 – 20	8	29	40	1.610.2900.15	1.640.2900.15	1.660.2900.15
PG 36	22 – 32	8	35	50	1.610.3600.01	1.640.3600.01	1.660.3600.01
PG 36	20 – 26	8	35	50	1.610.3600.15	1.640.3600.15	1.660.3600.15
PG 42	32 – 38	9	37	57	1.610.4200.01	1.640.4200.01	1.660.4200.01
PG 42	25 – 31	9	37	57	1.610.4200.15	1.640.4200.15	1.660.4200.15
PG 48	37 – 44	10	38	64	1.610.4800.01	1.640.4800.01	1.660.4800.01
PG 48	29 – 35	10	38	64	1.610.4800.15	1.640.4800.15	1.660.4800.15
3/8" NPT	4 – 8	15	21	17/19	1.610.3800.70	1.640.3800.70	1.660.3800.70
3/8" NPT	2 – 6	15	21	17/19	1.610.3800.71	1.640.3800.71	1.660.3800.71
1/2" NPT	6 – 12	13	24	22/24	1.610.1200.70	1.640.1200.70	1.660.1200.70
1/2" NPT	5 – 9	13	24	22/24	1.610.1200.71	1.640.1200.71	1.660.1200.71
3/4" NPT	14 – 18	13	25	30	1.610.3400.70	1.640.3400.70	1.660.3400.70
3/4" NPT	10 – 16	13	25	30	1.610.3400.71	1.640.3400.71	1.660.3400.71
1" NPT	20 – 25	19	29	40	1.610.1000.70	1.640.1000.70	
1" NPT	13 – 20	19	29	40	1.610.1000.71	1.640.1000.71	

➔ Accessories see page 71 and 141

HSK Ex-e Standard cable glands

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

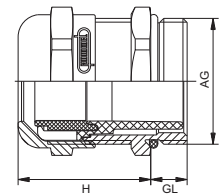
PG-elongated



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 174 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 71 and 141

HSK Ex-e Standard cable glands

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

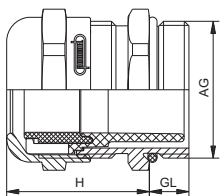
Metr.



For the international certificates
please see page 174 or our homepage
www.hummel.com

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

Advice:
- AISI 316L on request



AG	\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 71 and 141

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

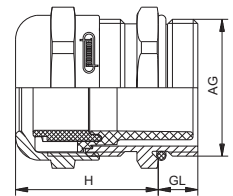
O-Ring Buna-N / FPM

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 174 or our homepage www.hummel.com

Advice:
- AISI 316L on request



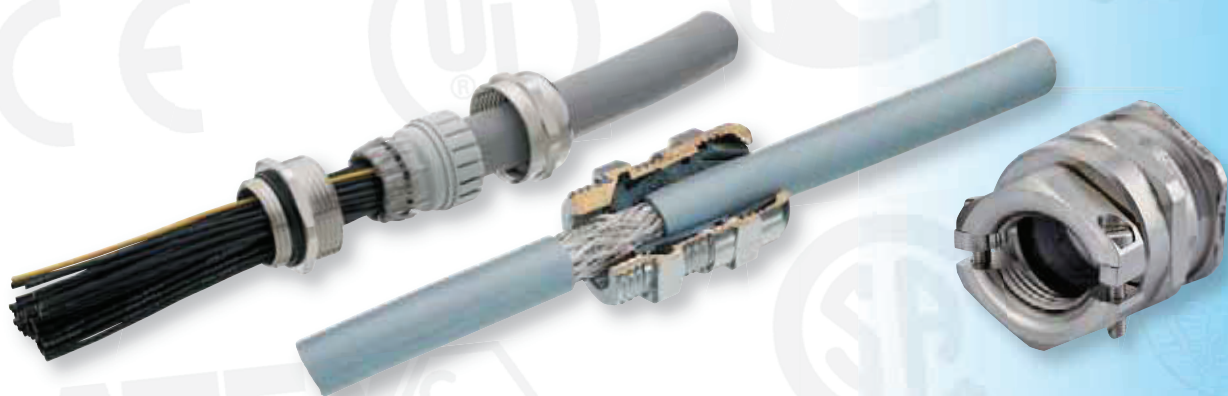
AG	\varnothing mm	GL mm	H mm	\varnothing mm	Number HSK-INOX-Ex -20°C – 95°C (-4°F – 203°F)	Number HSK-INOX-Ex -60°C – 95°C (-76°F – 203°F)	Number HSK-INOX-PVDF-Ex -20°C – 130°C (-4°F – 266°F)
PG 7	3 – 6,5	5	19	14	1.612.0700.01	1.642.0700.01	1.662.0700.01
PG 7	2 – 5	5	19	14	1.612.0700.15	1.642.0700.15	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 71 and 141

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
- ➔ you can find HSK-Ex-d standard cable glands from page 137

HSK-EMC-Ex-e cable glands

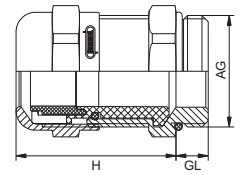
HSK-M-EMV-D-Ex

Metr.



For the international certificates please see page 174 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 71 and 141

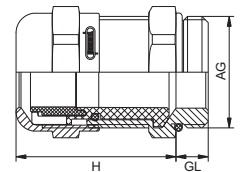
HSK-M-EMV-D-Ex

Metr.-elongated



For the international certificates please see page 174 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 71 and 141

HSK-EMC-Ex-e cable glands

HSK-M-EMV-D-Ex

PG

RoHS



II 2G 1D



For the international certificates please see page 174 or our homepage www.hummel.com

Material Nickel plated brass

Clamping insert Metalised Polyamide

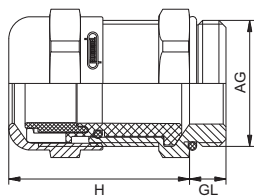
Seal Buna-N

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 71 and 141

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)



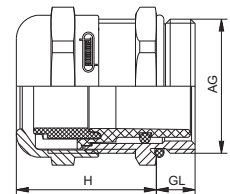
II 2G 1D



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

For the international certificates please see page 174 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 71 and 141

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

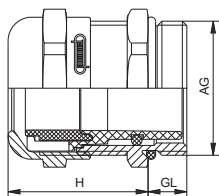
O-Ring Buna-N / FPM

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 174 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
3/8" NPT	4 – 8	15	21	17/19	1.616.3800.70	1.646.3800.70	1.666.3800.70
3/8" NPT	2 – 6	15	21	17/19	1.616.3800.71	1.646.3800.71	1.666.3800.71
1/2" NPT	6 – 12	13	24	22/24	1.616.1200.70	1.646.1200.70	1.666.1200.70
1/2" NPT	5 – 9	13	24	22/24	1.616.1200.71	1.646.1200.71	1.666.1200.71
3/4" NPT	14 – 18	13	25	30	1.616.3400.70	1.646.3400.70	1.666.3400.70
3/4" NPT	10 – 16	13	25	30	1.616.3400.71	1.646.3400.71	1.666.3400.71

➔ Accessories see page 71 and 141

HSK-EMC-Ex-e cable glands

HSK-MZ-EMV-Ex

Metr.



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

Advice:
- Elongated threads on request

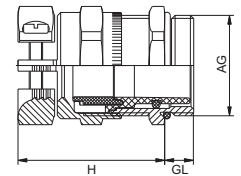


II 2G 1D



For the international certificates
please see page 174 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 71 and 141

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

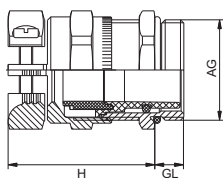
O-Ring Buna-N / FPM

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 174 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 71 and 141

HSK-EMC-Ex-e cable glands

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

NPT

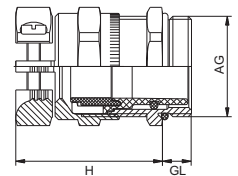


Material	Nickel plated brass
Clamping insert	Polyamide / PVDF
Seal	Buna-N / FPM
O-Ring	Buna-N / FPM
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG) within the specified clamping range
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F) / -60 °C – 95 °C (-76 °F – 203 °F) / -20 °C – 130 °C (-4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



For the international certificates please see page 174 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)
3/8" NPT	4-8	15	27	17/19	1.617.3800.70	1.647.3800.70	1.667.3800.70
1/2" NPT	7-12	13	31	22/24	1.617.1200.70	1.647.1200.70	1.667.1200.70
3/4" NPT	13-18	13	36	30	1.617.3400.70	1.647.3400.70	1.667.3400.70

➔ Accessories see page 71 and 141

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 137

HSK Ex-e cable glands for special applications

HSK-K-Multi-Ex

Metr., PG, NPT

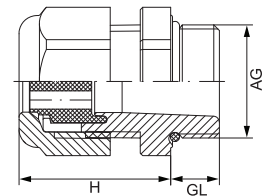


Material	Polyamide V0 according to UL 94
Seal	Elastomer
Protection	IP 68
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F)
Colors	grey (RAL 7035), black (RAL 9005)
O-Ring	Buna-N



Advice:
- Installation instruction see page 170

For the international certificates please see page 174 or our homepage www.hummel.com



AG	GL mm	H mm	mm	Number of Holes x d	Number grey	Number black	Number of Holes x d	Number grey	Number black
M 16 x 1,5	8	22	19	4 x 1,4	1.599.1600.50	1.599.1600.51	2 x 3	1.599.1601.50	1.599.1601.51
M 20 x 1,5	9	27	24	6 x 3	1.599.2001.50	1.599.2001.51	2 x 5	1.599.2003.50	1.599.2003.51
M 25 x 1,5	11	31	33	4 x 6	1.599.2500.50	1.599.2500.51	3 x 7	1.599.2501.50	1.599.2501.51
M 32 x 1,5	11	39	42	6 x 6,5	1.599.3200.50	1.599.3200.51	4 x 9	1.599.3201.50	1.599.3201.51
M 40 x 1,5	13	48	53	7 x 9	1.599.4001.50	1.599.4001.51	2 x 15	1.599.4003.50	1.599.4003.51
M 50 x 1,5	13	49	60		1.599.5099.50	1.599.5099.51			
M 63 x 1,5	14	49	65/68	6 x 12	1.599.6301.50	1.599.6301.51	3 x 18	1.599.6302.50	1.599.6302.51
PG 9	8	22	19	4 x 1,4	1.599.0900.00	1.599.0900.01	2 x 3	1.599.0901.00	1.599.0901.01
PG 11	8	25	22	2 x 4	1.599.1102.00	1.599.1102.01	3 x 3	1.599.1101.00	1.599.1101.01
PG 13,5	9	27	24	3 x 4	1.599.1302.00	1.599.1302.01	2 x 5	1.599.1303.00	1.599.1303.01
PG 16	10	28	27	4 x 4	1.599.1602.00	1.599.1602.01	6 x 4	1.599.1604.00	1.599.1604.01
PG 16	10	28	27	3 x 5,6	1.599.1606.00	1.599.1606.01	2 x 6	1.599.1605.00	1.599.1605.01
PG 21	11	31	33	4 x 6	1.599.2100.00	1.599.2100.01	3 x 7	1.599.2101.00	1.599.2101.01
PG 29	11	39	42	6 x 6,5	1.599.2900.00	1.599.2900.01	4 x 9	1.599.2901.00	1.599.2901.01
PG 36	13	48	53	7 x 9	1.599.3601.00	1.599.3601.01	2 x 15	1.599.3603.00	1.599.3603.01
PG 48	14	49	65	6 x 12	1.599.4801.00	1.599.4801.01	3 x 18	1.599.4802.00	1.599.4802.01
3/8" NPT	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
1/2" NPT	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
1/2" NPT/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
3/4" NPT	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
1" NPT	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
1 1/4" NPT	16	39	42/46		1.599.5499.70	1.599.5499.71			
1 1/2" NPT	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

The shown inserts are samples, more inserts upon request

➔ Accessories see page 71 and 141

HSK Ex-e cable glands for special applications

HSK-K-FLAKA-Ex

Metr., PG, NPT



Material Polyamide V0 according to UL 94

Seal Elastomer

Protection IP 68

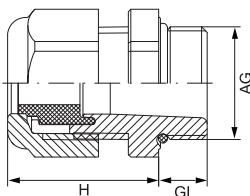
Operating Temperature -20 °C – 95 °C (-4 °F – 203 °F)

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

O-Ring Buna-N

For the international certificates please see page 174 or our homepage www.hummel.com

Advice:
- Installation instruction see page 170



AG	GL mm	H mm	mm	B x H mm	Number grey	Number black	B 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			
1/2" NPT/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
3/4" NPT	14	31	33	14 x 6	1.589.3400.70	1.589.3400.71			
1" NPT	19	39	42	22 x 8	1.589.1000.70	1.589.1000.71			
1 1/4" NPT	16	39	42/46	22 x 8	1.589.5400.70	1.589.5400.71			
1 1/2" NPT	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
1 1/2" NPT	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

The shown inserts are samples, more inserts upon request

➔ Accessories see page 71 and 141

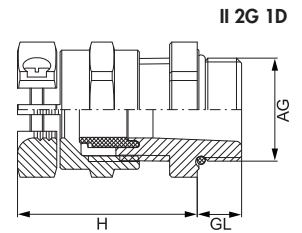
HSK Ex-e cable glands for special applications

HSK-K-MZ-Ex

Metr.


For the international certificates please see page 174 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	Ø mm	GL mm	H mm	Ø 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

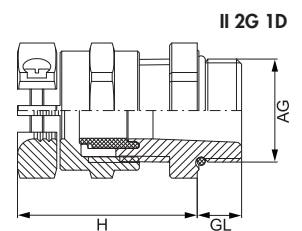
➔ Accessories see page 71 and 141

HSK-K-MZ-Ex

PG


For the international certificates please see page 174 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	Ø mm	GL mm	H mm	Ø 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 71 and 141

HSK Ex-e cable glands for special applications

HSK-M-Multi-Ex

Metr., PG, NPT

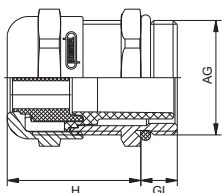


Material	Nickel plated brass
Clamping insert	Polyamide
Seal	Elastomer
O-Ring	Buna-N
Protection	IP 68
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F)



For the international certificates please see page 174 or our homepage www.hummel.com

Advice:
- Stainless steel on request




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

The shown inserts are samples, more inserts upon request

➔ Accessories see page 71 and 141

HSK Ex-e cable glands for special applications


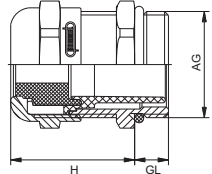
HSK-M-FLAKA-Ex Metr.




For the international certificates please see page 174 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		

The shown inserts are samples, more inserts on request

➔ Accessories see page 71 and 141


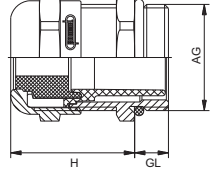
HSK-M-FLAKA-Ex PG, NPT




For the international certificates please see page 174 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		
3/4" NPT	13	25	30	14 x 6	1.689.3400.70	14 x 7	1.689.3401.70
1" NPT	19	29	40	22 x 8	1.689.1000.70		

The shown inserts are samples, more inserts on request

➔ Accessories see page 71 and 141

HSK Ex-e cable glands for special applications

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

Metr.



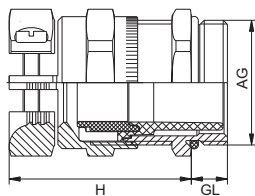
II 2G 1D



For the international certificates
please see page 174 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 71 and 141

HSK Ex-e cable glands for special applications

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

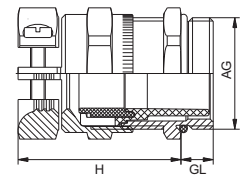
PG


For the international certificates please see page 174 or our homepage www.hummel.com

Advice:

- Elongated threads on request.

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-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 71 and 141

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

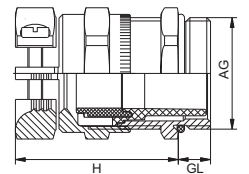
NPT


For the international certificates please see page 174 or our homepage www.hummel.com

Advice:

- Elongated threads on request.

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-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)
3/8" NPT	4 – 8	15	28	17 / 19	1.611.3800.70	1.641.3800.70	1.661.3800.70
1/2" NPT	7 – 12	13	33	22 / 24	1.611.1200.70	1.641.1200.70	1.661.1200.70
3/4" NPT	13 – 18	13	37	30	1.611.3400.70	1.641.3400.70	1.661.3400.70
1" NPT	20 – 25	19	43	40	1.611.1000.70	1.641.1000.70	

➔ Accessories see page 71 and 141

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

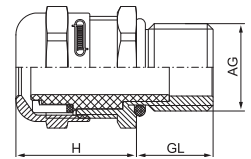
HSK-Ex-d standard cable glands

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

Metr.


For the international certificates please see page 174 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	19	14	1.622.1200.50	1.634.1200.50
M 12 x 1,5	2 – 5	16	19	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

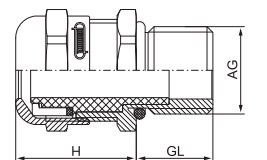
➔ Accessories see page 71 and 141

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

NPT


For the international certificates please see page 174 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 71 and 141

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 174 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	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	38	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 71 and 141

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 174 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	34	24	1.628.1200.70
NPT 3/4"	13 – 18	20,5	38	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 71 and 141

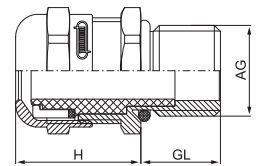
HSK-Ex-d standard cable glands

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

Metr.


For the international certificates please see page 174 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

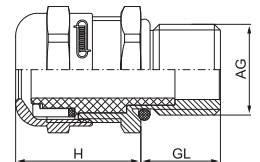
➔ Accessories see page 71 and 141

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

NPT


For the international certificates please see page 174 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 71 and 141

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 142
- accessories made of nickel plated brass starting on page 145
- accessories made of stainless steel starting on page 149



Ex accessories

V-Ex

Metr.

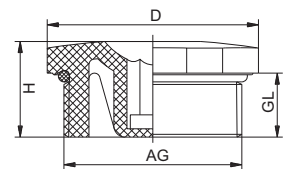


Material	Polyamide, fiber reinforced
O-Ring	Buna-N
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-20 °C – 90 °C (-4 °F – 194 °F)
Colors	black (RAL 9005)



II 2G 1D

For the international certificates
please see page 174 or our homepage
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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

Ex accessories

HSK-V-Ex

Metr., PG, NPT

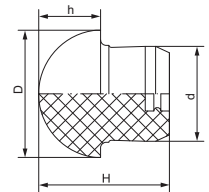


Material Elastomer

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

Colors black (RAL 9005)

Advice:
- Elongated threads on request



II 2G 1D

For the international certificates
please see page 174 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

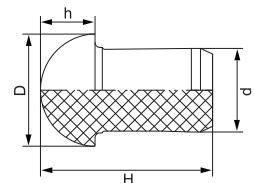


Material Elastomer

Operating Temperature -20 °C – 95 °C (-4 °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 174 or our homepage
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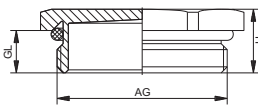
Fits the Following Sizes			D mm	d mm	H mm	h mm	Number
PG 7	M 12 x 1,5		9,5	6,3	18	4,5	1.296.0701.61
PG 9	M 16 x 1,5	NPT 3/8"	11	7,8	20,5	5,5	1.296.0901.61
PG 11	M 16 x 1,5		13,5	9,8	22	5,5	1.296.1101.61
PG 13,5	M 20 x 1,5	NPT 1/2"	16	11,8	26,5	8	1.296.1301.61
PG 16	M 20 x 1,5	NPT 1/2"/16	18,5	13,8	28,4	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)



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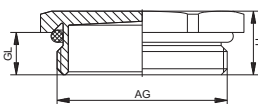
AG	GL mm	H mm	mm	Number V-Ms-Ex -20 °C – 95 °C (-4 °F – 203 °F)	Number V-Ms-FPM-Ex -20 °C – 180 °C (-4 °F – 356 °F)	Number V-Ms-VMQ-Ex -60 °C – 180 °C (-76 °F – 356 °F)
M 12 x 1,5	6,5	9,5	14	1.197.1200.50	1.198.1200.50	1.199.1200.50
M 16 x 1,5	6	9	19	1.197.1600.50	1.198.1600.50	1.199.1600.50
M 20 x 1,5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



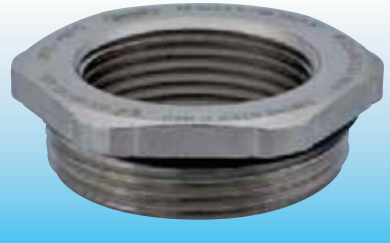
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AG	GL mm	H mm	mm	Number V-Ms-Ex -20 °C – 95 °C (-4 °F – 203 °F)	Number V-Ms-FPM-Ex -20 °C – 180 °C (-4 °F – 356 °F)	Number V-Ms-VMQ-Ex -60 °C – 180 °C (-76 °F – 356 °F)
PG 7	5	8	14	1.197.0700.01	1.198.0700.01	1.199.0700.01
PG 9	6	9	17	1.197.0900.01	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

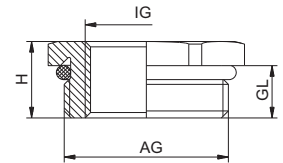
Metr.



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		AG	IG	GL mm	H 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	1.078.1612.50	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	27	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	27	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

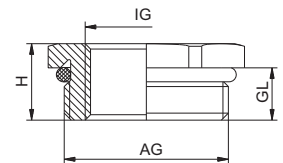
PG



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	H mm	Number		AG	IG	GL mm	H mm	H 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	1.078.0907.01	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.

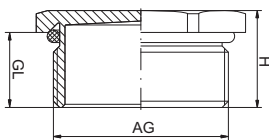


Material	Nickel plated brass
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
O-Ring	Buna-N / FPM / VMQ
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F) (Buna-N) -20 °C – 180 °C (-4 °F – 356 °F) (FPM), -60 °C – 180 °C (-76 °F – 356 °F) (VMQ)



II 2G 1D Ex d IIC

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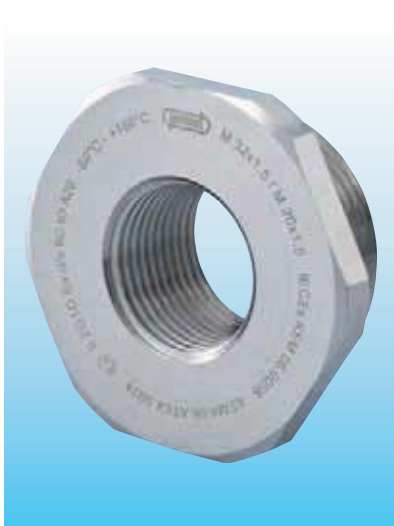


AG	GL mm	H mm	mm	Number	Number	Number
				Buna-N -20 °C – 95 °C (-4 °F – 203 °F)	FPM -20 °C – 180 °C (-4 °F – 356 °F)	VMQ -60 °C – 180 °C (-76 °F – 356 °F)
M 12 x 1,5	16	17	14	1.875.1200.50	1.876.1200.50	1.877.1200.50
M 16 x 1,5	16	16	19	1.875.1600.50	1.876.1600.50	1.877.1600.50
M 20 x 1,5	16	15,5	22	1.875.2000.50	1.876.2000.50	1.877.2000.50
M 25 x 1,5	16	15,5	30	1.875.2500.50	1.876.2500.50	1.877.2500.50
M 32 x 1,5	16	16,5	41	1.875.3200.50	1.876.3200.50	1.877.3200.50
M 40 x 1,5	16	17	46	1.875.4000.50	1.876.4000.50	1.877.4000.50
M 50 x 1,5	16	18	55	1.875.5000.50	1.876.5000.50	1.877.5000.50
M 63 x 1,5	16	18,5	70	1.875.6300.50	1.876.6300.50	1.877.6300.50

Ex accessories

RSD-MS-Ex-d

Metr.



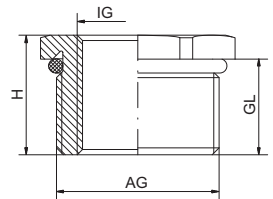
Material	Nickel plated brass
O-Ring	Buna-N / VMQ
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F) (Buna-N) -60 °C – 180 °C (-76 °F – 356 °F) (VMQ)



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	15	19	1.878.1612.50	1.879.1612.50
M 20 x 1,5	M 12 x 1,5	16	15,5	22	1.878.2012.50	1.879.2012.50
M 20 x 1,5	M 16 x 1,5	16	15,5	22	1.878.2016.50	1.879.2016.50
M 25 x 1,5	M 16 x 1,5	16	15,5	30	1.878.2516.50	1.879.2516.50
M 25 x 1,5	M 20 x 1,5	16	15,5	30	1.878.2520.50	1.879.2520.50
M 32 x 1,5	M 16 x 1,5	16	16,5	41	1.878.3216.50	1.879.3216.50
M 32 x 1,5	M 20 x 1,5	16	16,5	41	1.878.3220.50	1.879.3220.50
M 32 x 1,5	M 25 x 1,5	16	16,5	41	1.878.3225.50	1.879.3225.50
M 40 x 1,5	M 20 x 1,5	16	17	46	1.878.4020.50	1.879.4020.50
M 40 x 1,5	M 25 x 1,5	16	17	46	1.878.4025.50	1.879.4025.50
M 40 x 1,5	M 32 x 1,5	16	17	46	1.878.4032.50	1.879.4032.50

V-INOX-Ex Metr.

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

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

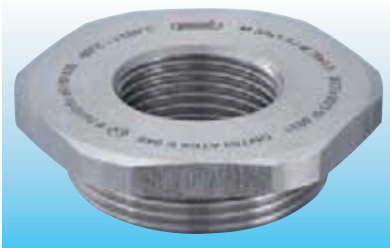
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AG	GL mm	H mm	mm	Number V-INOX-Ex -20 °C – 95 °C (-4 °F – 203 °F)	Number V-INOX-FPM-Ex -20 °C – 180 °C (-4 °F – 356 °F)	Number V-INOX-VMQ-Ex -60 °C – 180 °C (-76 °F – 356 °F)
PG 7	5	8	14	1.192.0700.01	1.193.0700.01	1.194.0700.01
PG 9	6	9	17	1.192.0900.01	1.193.0900.01	1.194.0900.01
PG 11	6	9,5	20	1.192.1100.01	1.193.1100.01	1.194.1100.01
PG 13,5	6,5	10	22	1.192.1300.01	1.193.1300.01	1.194.1300.01
PG 16	6,5	10	24	1.192.1600.01	1.193.1600.01	1.194.1600.01
PG 21	7	10,5	30	1.192.2100.01	1.193.2100.01	1.194.2100.01
PG 29	8	12,5	41	1.192.2900.01	1.193.2900.01	1.194.2900.01
PG 36	8	13	50	1.192.3600.01	1.193.3600.01	1.194.3600.01
PG 42	9	15	58	1.192.4200.01	1.193.4200.01	1.194.4200.01
PG 48	10	16,5	65	1.192.4800.01	1.193.4800.01	1.194.4800.01

Ex accessories

RSD-INOX-Ex

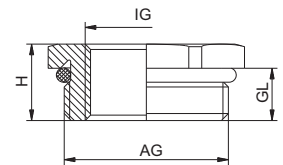
Metr.



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

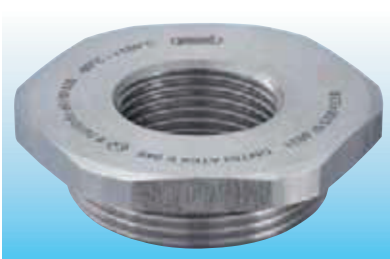


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AG	IG	GL mm	H mm	Number	
				Buna-N -20 °C – 95 °C (-4 °F – 203 °F)	VMQ -60 °C – 180 °C (-76 °F – 356 °F)
M 16 x 1,5	M 12 x 1,5	5	17	1.098.1612.50	1.099.1612.50
M 20 x 1,5	M 12 x 1,5	6	22	1.098.2012.50	1.099.2012.50
M 20 x 1,5	M 16 x 1,5	6	22	1.098.2016.50	1.099.2016.50
M 25 x 1,5	M 16 x 1,5	7	27	1.098.2516.50	1.099.2516.50
M 25 x 1,5	M 20 x 1,5	7	27	1.098.2520.50	1.099.2520.50
M 32 x 1,5	M 16 x 1,5	8	34	1.098.3216.50	1.099.3216.50
M 32 x 1,5	M 20 x 1,5	8	34	1.098.3220.50	1.099.3220.50
M 32 x 1,5	M 25 x 1,5	8	34	1.098.3225.50	1.099.3225.50
M 40 x 1,5	M 20 x 1,5	8	43	1.098.4020.50	1.099.4020.50
M 40 x 1,5	M 25 x 1,5	8	43	1.098.4025.50	1.099.4025.50
M 40 x 1,5	M 32 x 1,5	8	43	1.098.4032.50	1.099.4032.50
M 50 x 1,5	M 25 x 1,5	9	55	1.098.5025.50	1.099.5025.50

RSD-INOX-Ex

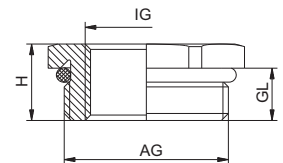
PG



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	H mm	Number	
					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 11	PG 7	6	9	20	1.098.1107.01	1.099.1107.01
PG 11	PG 9	6	9	20	1.098.1109.01	1.099.1109.01
PG 13,5	PG 9	6,5	9,5	22	1.098.1309.01	1.099.1309.01
PG 13,5	PG 11	6,5	9,5	22	1.098.1311.01	1.099.1311.01
PG 16	PG 9	6,5	9,5	24	1.098.1609.01	1.099.1609.01
PG 16	PG 11	6,5	9,5	24	1.098.1611.01	1.099.1611.01
PG 16	PG 13,5	6,5	9,5	24	1.098.1613.01	1.099.1613.01
PG 21	PG 11	7	10,3	30	1.098.2111.01	1.099.2111.01
PG 21	PG 13,5	7	10,3	30	1.098.2113.01	1.099.2113.01
PG 21	PG 16	7	10,3	30	1.098.2116.01	1.099.2116.01
PG 29	PG 16	8	11,5	40	1.098.2916.01	1.099.2916.01

V-INOX-Ex-d

Metr.

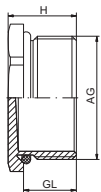


Material	INOX (1.4404)
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
O-Ring	Buna-N / FPM / VMQ
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F) (Buna-N) -20 °C – 180 °C (-4 °F – 356 °F) (FPM), -60 °C – 180 °C (-76 °F – 356 °F) (VMQ)



II 2G 1D Ex d IIC

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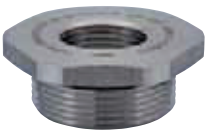
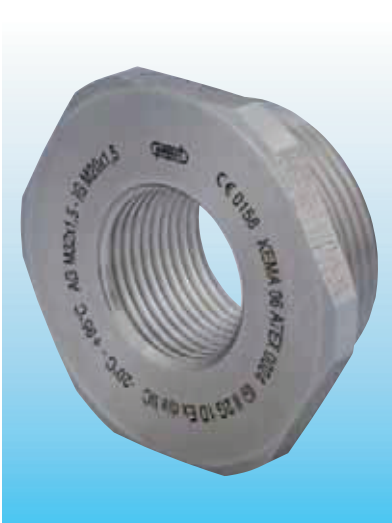


AG	GL mm	H mm	mm	Number Buna-N -20 °C – 95 °C (-4 °F – 203 °F)	Number FPM -20 °C – 180 °C (-4 °F – 356 °F)	Number VMQ -60 °C – 180 °C (-76 °F – 356 °F)
M 12 x 1,5	16	15	14	1.895.1200.50	1.896.1200.50	1.897.1200.50
M 16 x 1,5	16	15	19	1.895.1600.50	1.896.1600.50	1.897.1600.50
M 20 x 1,5	16	15,5	22	1.895.2000.50	1.896.2000.50	1.897.2000.50
M 25 x 1,5	16	15,5	30	1.895.2500.50	1.896.2500.50	1.897.2500.50
M 32 x 1,5	16	16,5	41	1.895.3200.50	1.896.3200.50	1.897.3200.50
M 40 x 1,5	16	17	46	1.895.4000.50	1.896.4000.50	1.897.4000.50
M 50 x 1,5	16	18	55	1.895.5000.50	1.896.5000.50	1.897.5000.50
M 63 x 1,5	16	18,5	70	1.895.6300.50	1.896.6300.50	1.897.6300.50

Ex accessories

RSD-INOX-Ex-d

Metr.



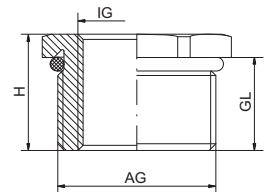
Material	INOX (1.4404)
O-Ring	Buna-N / VMQ
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F) (Buna-N) -60 °C – 180 °C (-76 °F – 356 °F) (VMQ)



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	15	19	1.898.1612.50	1.899.1612.50
M 20 x 1,5	M 12 x 1,5	16	15,5	22	1.898.2012.50	1.899.2012.50
M 20 x 1,5	M 16 x 1,5	16	15,5	22	1.898.2016.50	1.899.2016.50
M 25 x 1,5	M 16 x 1,5	16	15,5	30	1.898.2516.50	1.899.2516.50
M 25 x 1,5	M 20 x 1,5	16	15,5	30	1.898.2520.50	1.899.2520.50
M 32 x 1,5	M 16 x 1,5	16	16,5	41	1.898.3216.50	1.899.3216.50
M 32 x 1,5	M 20 x 1,5	16	16,5	41	1.898.3220.50	1.899.3220.50
M 32 x 1,5	M 25 x 1,5	16	16,5	41	1.898.3225.50	1.899.3225.50
M 40 x 1,5	M 20 x 1,5	16	17	46	1.898.4020.50	1.899.4020.50
M 40 x 1,5	M 25 x 1,5	16	17	46	1.898.4025.50	1.899.4025.50
M 40 x 1,5	M 32 x 1,5	16	17	46	1.898.4032.50	1.899.4032.50

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