

HSK Ex-e cable glands for special applications

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.

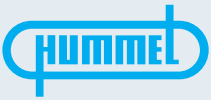
Contact us:

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

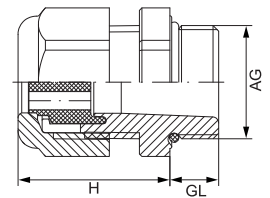


Material	Polyamide V0 according to UL 94
Seal	Elastomer
Protection	IP 68
Operating Temperature	-20 °C – 95 °C (-4 °F – 203 °F)
Colours	grey (RAL 7035), black (RAL 9005)
O-Ring	Buna-N



Advice:
- Installation instruction see page 170

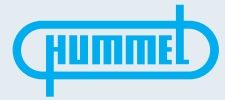
For the international certificates please see page 170



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 VO according to UL 94

Seal Elastomer

Protection IP 68

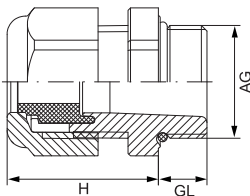
Operating Temperature -20 °C – 95 °C (-4 °F – 203 °F)

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

O-Ring Buna-N

For the international certificates please see page 170

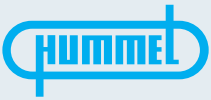
Advice:
- Installation instruction see page 170



AG	GL mm	H mm	U 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

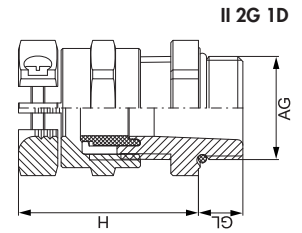
HSK-K-MZ-Ex

Metr.



For the international certificates please see page 170

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 71 and 141

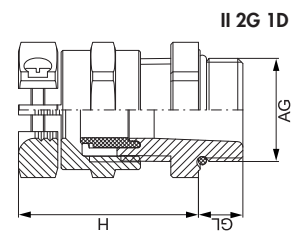
HSK-K-MZ-Ex

PG



For the international certificates please see page 170

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 71 and 141



HSK Ex-e cable glands for special applications

HSK-M-Multi-Ex

Metr., PG, NPT



II 2G 1D



For the international certificates please see page 170

Material Nickel plated brass

Clamping insert Polyamide

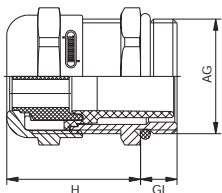
Seal Elastomer

O-Ring Buna-N

Protection IP 68

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

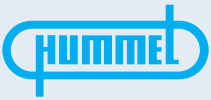
Advice:
- Stainless steel on request



AG	GL mm	H mm	mm	Number of Holes x d	Number	Number of Holes x d	Number
M 16 x 1,5	6	21	17/19	4 x 1,4	1.687.1600.50	2 x 3	1.687.1601.50
M 20 x 1,5	6	23	22	6 x 3	1.687.2001.50	2 x 5	1.687.2003.50
M 25 x 1,5	7	26	30	4 x 6	1.687.2500.50	3 x 7	1.687.2501.50
M 32 x 1,5	8	31	40	6 x 6,5	1.687.3200.50	4 x 9	1.687.3201.50
M 40 x 1,5	8	37	50	7 x 9	1.687.4001.50	2 x 15	1.687.4003.50
M 50 x 1,5	9	37	57				1.687.5099.50
M 63 x 1,5	10	38	64/68	6 x 12	1.687.6301.50	3 x 18	1.687.6302.50
PG 9	6	21	17	4 x 1,4	1.687.0900.01	2 x 3	1.687.0901.01
PG 11	6	22	20	2 x 4	1.687.1102.01	3 x 3	1.687.1101.01
PG 13,5	6,5	24	22	3 x 4	1.687.1302.01	2 x 5	1.687.1303.01
PG 16	6,5	23	24	4 x 4	1.687.1602.01	6 x 4	1.687.1604.01
PG 16	6,5	23	24	3 x 5,6	1.687.1606.01	2 x 6	1.687.1605.01
PG 21	7	24	30	4 x 6	1.687.2100.01	3 x 7	1.687.2101.01
PG 29	8	29	40	6 x 6,5	1.687.2900.01	4 x 9	1.687.2901.01
PG 36	8	35	50	7 x 9	1.687.3601.01	2 x 15	1.687.3603.01
PG 48	10	38	64	6 x 12	1.687.4801.01	3 x 18	1.687.4802.01
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/16	13	24	22/24	3 x 4	1.687.1220.70	2 x 5	1.687.1221.70
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

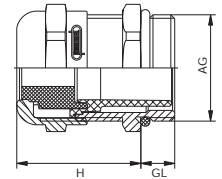
Metr.



For the international certificates please see page 170

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 upon request

➔ Accessories see page 71 and 141

HSK-M-FLAKA-Ex

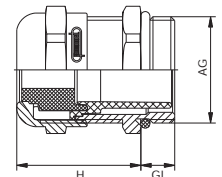
PG, NPT



For the international certificates please see page 170

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 upon 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 170

Material Nickel plated brass

Clamping insert Polyamide / PVDF

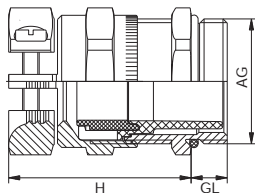
Seal Buna-N / FPM

O-Ring Buna-N / FPM

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

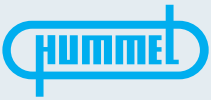
Operating Temperature -20 °C – 95 °C (-4 °F – 203 °F) / -60 °C – 105 °C (-76 °F – 221 °F) / -20 °C – 130 °C (-4 °F – 266 °F) (PVDF)

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 – 105 °C (-76 °F – 221 °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

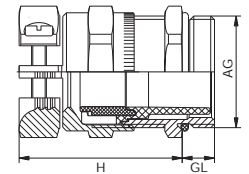
PG



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 – 105 °C (-76 °F – 221 °F) / -20 °C – 130 °C (-4 °F – 266 °F) (PVDF)



ATEX Ex II 2G 1D



For the international certificates please see page 170

Advice:
- Elongated threads on request.

AG	mm	GL mm	H mm	mm	Number HSK-MZ-Ex -20 °C – 95 °C (-4 °F – 203 °F)	Number HSK-MZ-Ex -60 °C – 105 °C (-76 °F – 221 °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

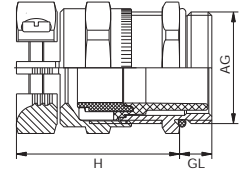
NPT



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 – 105 °C (-76 °F – 221 °F) / -20 °C – 130 °C (-4 °F – 266 °F) (PVDF)



ATEX Ex II 2G 1D



For the international certificates please see page 170

Advice:
- Elongated threads on request.

AG	mm	GL mm	H mm	mm	Number HSK-MZ-Ex -20 °C – 95 °C (-4 °F – 203 °F)	Number HSK-MZ-Ex -60 °C – 105 °C (-76 °F – 221 °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