

# Industrial cable glands

## HSK-EMC cable glands

Cable glands of the HSK-series fulfil the highest demands of quality and security. Outstanding high-grade materials are used together with innovative technology to offer premium products.



### You can find in this chapter:

HSK EMC cable glands

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

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

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

### Contact us:

E-Mail: [info.et@hummel.com](mailto:info.et@hummel.com)

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

### Advice:

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

# HSK-EMC cable glands

## HSK-M-EMV-D

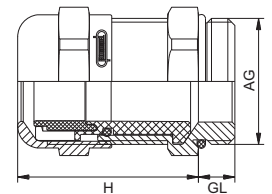
Metr., Metr.-elongated



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



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



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



➔ Accessories see page 71

# HSK-EMC cable glands

## HSK-M-EMV-D PG

**RoHS**

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

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

AG	∅ mm	GL mm	H mm	W mm	Number
PG 7	3 – 6,5	5	24	14	1.631.0700.01
PG 9	4 – 8	6	28	17	1.631.0900.01
PG 11	5 – 10	6	29	20	1.631.1100.01
PG 13,5	6 – 12	6,5	31	22	1.631.1300.01
PG 16	10 – 14	6,5	32	24	1.631.1600.01
PG 21	13 – 18	7	38	30	1.631.2100.01
PG 29	18 – 25	8	43	40	1.631.2900.01
PG 36	24 – 32	8	48	50	1.631.3600.01
PG 42	32 – 38	9	45	57	1.631.4200.01
PG 48	37 – 44	10	46	64	1.631.4800.01

➔ Accessories see page 71

## HSK-M-EMV-D NPT

**RoHS**

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

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

AG	∅ mm	GL mm	H mm	W mm	Number
3/8" NPT	4 – 8	15	29	17 / 19	1.631.3800.70
1/2" NPT	6 – 12	13	32,5	22 / 24	1.631.1200.70
3/4" NPT	13 – 18	13	39	30	1.631.3400.70

➔ Accessories see page 71

# HSK-EMC cable glands

## HSK-M-EMV

Metr., Metr.-elongated

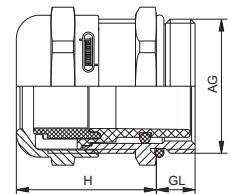


<b>Material</b>	Nickel plated brass
<b>Clamping insert</b>	Polyamide
<b>Seal</b>	Buna-N
<b>O-Ring</b>	Buna-N
<b>Protection</b>	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG) within the specified clamping range
<b>Operating Temperature</b>	-40 °C – 100 °C (-40 °F – 212 °F)



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

See our homepage [www.hummel.com](http://www.hummel.com)  
 for assembling advices for maximum  
 cable diameters



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



➔ Accessories see page 71

# HSK-EMC cable glands

## HSK-M-EMV

## PG, PG-elongated, NPT

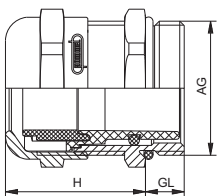
RoHS



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

**Advice:**

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

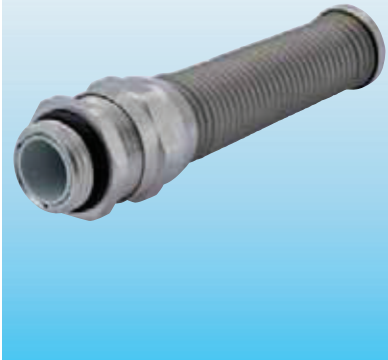


AG	$\varnothing k$ mm	GL mm	H mm	$\varnothing$ mm	Number	GL mm	Number elongated
PG 7	3 – 6,5	5	19	14	1.691.0700.01	10	1.691.0700.60
PG 7	2 – 5	5	19	14	1.691.0700.15	10	1.691.0700.61
PG 9	4 – 8	6	21	17	1.691.0900.01	10	1.691.0900.60
PG 9	2 – 6	6	21	17	1.691.0900.15	10	1.691.0900.61
PG 11	5 – 10	6	22	20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

➔ Accessories see page 71

## HSK-M-Flex-EMV

Metr., Metr.-elongated

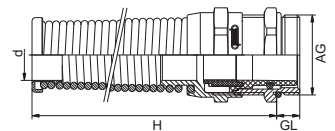


<b>Material</b>	Nickel plated brass
<b>Steel spring</b>	1.4310
<b>Clamping insert</b>	Polyamide
<b>Seal</b>	Buna-N
<b>O-Ring</b>	Buna-N
<b>Protection</b>	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG) within the specified clamping range
<b>Operating Temperature</b>	-40 °C – 100 °C (-40 °F – 212 °F)



See our homepage [www.hummel.com](http://www.hummel.com) for assembling advices for maximum cable diameters

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



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



➔ Accessories see page 71

## HSK-M-Flex-EMV

## PG, PG-elongated, NPT

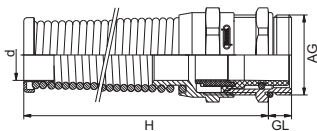
RoHS



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



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



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

➔ Accessories see page 71



# HSK-EMC cable glands

## HSK-MZ-EMV

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

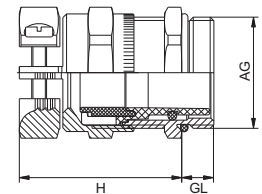


<b>Material</b>	Nickel plated brass
<b>Clamping insert</b>	Polyamide
<b>Seal</b>	Buna-N
<b>O-Ring</b>	Buna-N
<b>Protection</b>	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG) within the specified clamping range
<b>Operating Temperature</b>	-40 °C – 100 °C (-40 °F – 212 °F)



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

See our homepage [www.hummel.com](http://www.hummel.com) for assembling advices for maximum cable diameters



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



➔ Accessories see page 71



## HSK-M-EMV / METRICA-M-EMV



### Step 1



- + Strip cable
- + Expose braided shield

### Step 2

- + Feed cable through dome nut and clamping insert
- + Fold braided shield over clamping insert
- + Make sure that braided shield overlaps the O-Ring by 3/32" (2 mm)



### Step 3



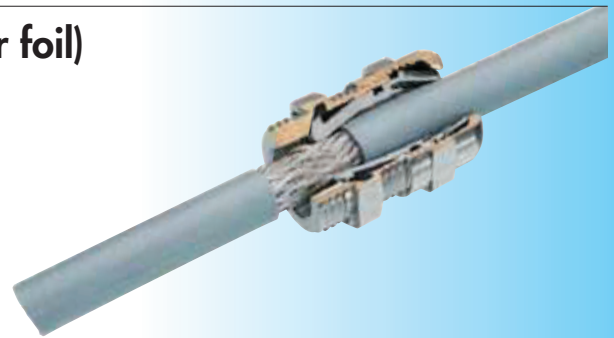
- + Push clamping insert into body and tighten dome nut
- + Assemble into housing
- + Finished!

## HSK-M-EMV-D

### Option 1

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

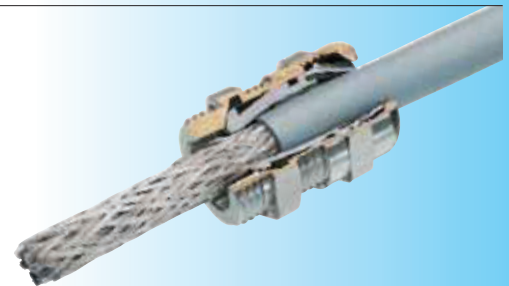
- + Expose shield approximately 7/16" (10mm)
- + Insert cable into fitting until the shield reaches the contact position
- + Tighten dome nut



### Option 2

#### Feed-through of shield (braided or foil)

- + Remove cable jacket to expose the shield as required
- + Insert cable into fitting until the shield reaches the contact position
- + Tighten dome nut



### Option 3

#### Termination of the braided shield in the fitting

- + Strip cable jacket and braided shield to different lengths
- + For small diameter cables fold the braided shield back over the cable jacket
- + Insert cable into fitting until the shield reaches the contact position
- + Tighten dome nut

