

## Industrial cable glands

### Accessories



You can find in this chapter accessories for all series of our industrial cable glands:

- Accessories made of plastic from page 72
- Accessories made of nickel plated brass from page 88
- Accessories made of stainless steel from page 97



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:**

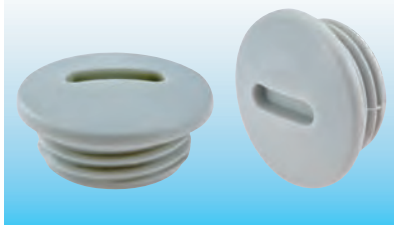
E-Mail: [sales@mdmetric.com](mailto:sales@mdmetric.com)



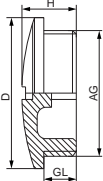
**V-N-FS**
**Metr.**

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




**Advice:**  
- Other colors upon request

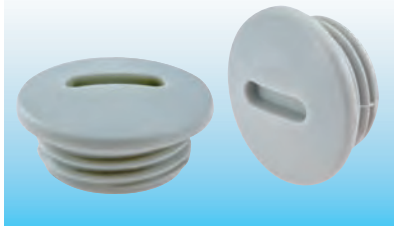


AG	GL mm	H mm	D mm	Number PA grey	Number PA black
M 12 x 1,5	6	10	15	1.251.1200.50	1.251.1201.50
M 16 x 1,5	7	11,5	20	1.251.1600.50	1.251.1601.50
M 20 x 1,5	6	9,5	25	1.251.2000.50	1.251.2001.50
M 25 x 1,5	11	15,5	30	1.251.2500.50	1.251.2501.50
M 32 x 1,5	11	16	38	1.251.3200.50	1.251.3201.50
M 40 x 1,5	13	18	46	1.251.4000.50	1.251.4001.50
M 50 x 1,5	13	18,5	56	1.251.5000.50	1.251.5001.50
M 63 x 1,5	15	19	69	1.251.6300.50	1.251.6301.50

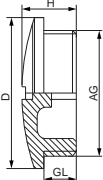
**V-N-FS**
**PG**



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



**Advice:**  
- Other colors upon request



AG	GL mm	H mm	D mm	Number PA grey	Number PA black
PG 7	6	8	15	1.251.0700.11	1.251.0701.11
PG 9	6	9	19	1.251.0900.11	1.251.0901.11
PG 11	6	9	22	1.251.1100.11	1.251.1101.11
PG 13,5	6	9,5	25	1.251.1300.11	1.251.1301.11
PG 16	6	9,5	27	1.251.1600.11	1.251.1601.11
PG 21	8	11	33	1.251.2100.11	1.251.2101.11
PG 29	8	12	44	1.251.2900.11	1.251.2901.11
PG 36	10	15	55	1.251.3600.11	1.251.3601.11
PG 42	10	16	62	1.251.4200.11	1.251.4201.11
PG 48	12	16	69	1.251.4800.11	1.251.4801.11



## Accessories

### V-NE / V-NE-SD

Metr.



**Material** Polyamide, fiber reinforced



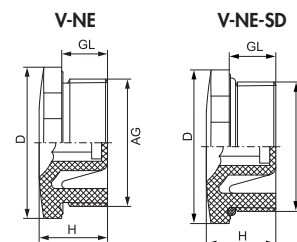
**Operating Temperature** -20 °C – 80 °C (-4 °F – 176 °F)



**O-Ring** Buna-N

**Colors** black (RAL 9005)

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



**Advice:**  
 - Other colors upon request  
 - Please find more O-Rings on page 86

AG	GL mm	H mm	D mm	mm	mm	Number V-NE without O-Ring	Number V-NE-SD
M 12 x 1,5	8,5	13	16,5	15	6	1.255.1201.50	1.256.1201.50
M 16 x 1,5	8,5	13	20,5	19	8	1.255.1601.50	1.256.1601.50
M 20 x 1,5	9	14,5	25,5	24	8	1.255.2001.50	1.256.2001.50
M 25 x 1,5	10,5	16	30,5	28	8	1.255.2501.50	1.256.2501.50
M 32 x 1,5	11,5	17,5	38	36	8	1.255.3201.50	1.256.3201.50
M 40 x 1,5	11,5	18	48	46	8	1.255.4001.50	1.256.4001.50
M 50 x 1,5	13,5	20	60	55	8	1.255.5001.50	1.256.5001.50
M 63 x 1,5	14,5	21	75	70	8	1.255.6301.50	1.256.6301.50

### V-NE / V-NE-SD

PG



**Material** Polyamide, fiber reinforced

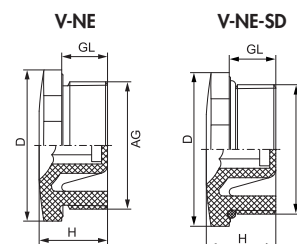


**Operating Temperature** -20 °C – 80 °C (-4 °F – 176 °F)

**O-Ring** Buna-N

**Colors** black (RAL 9005)

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



**Advice:**  
 - Other colors upon request  
 - Please find more O-Rings on page 86

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



## Accessories

**DS** **Metr.**

**RoHS**

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

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

**WN** **Metr.**

**RoHS**

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

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



## Accessories

### HSK-V

Metr., PG, NPT



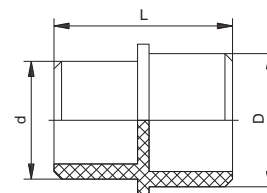
**Material** Polyamide



RoHS

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

**Colors** black (RAL 9005)



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



## Accessories

R-FS

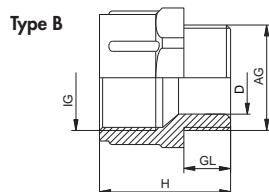
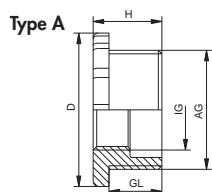
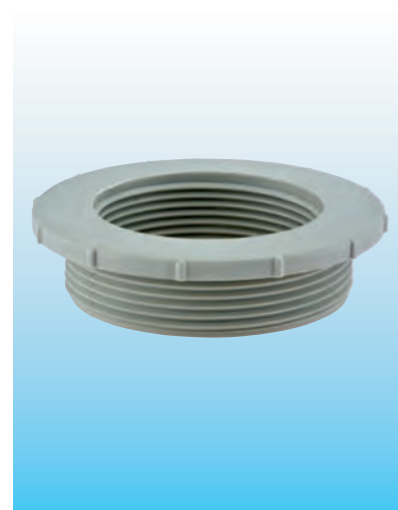
Metr., PG



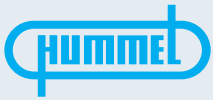
**Material** Styrene Butadiene / Polyamide

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

**Colors** grey (RAL 7035)



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



## Accessories

R-M-PA

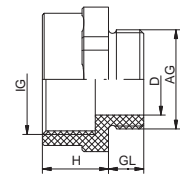
Metr., PG



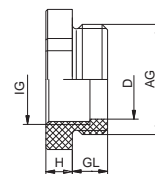
<b>Material</b>	Polyamide (Type A/Type B), Polypropylene (Type C)
<b>Operating Temperature</b>	-20 °C – 80 °C (-4 °F – 176 °F)
<b>Colors</b>	black (RAL 9005)



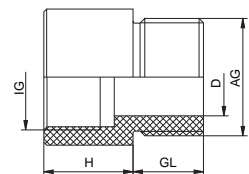
Type A



Type B



Type C



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





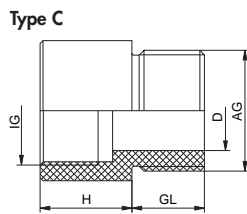
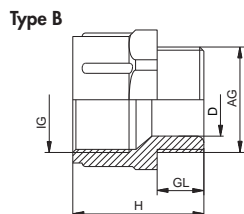
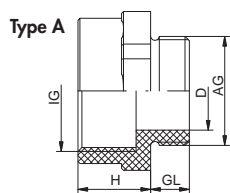
## Accessories

### E-M-PA, K-FS

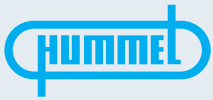
Metr., PG



<b>Material</b>	Polyamide (Type A / Type B), Polypropylene (Type C)
<b>Operating Temperature</b>	-20 °C – 80 °C (-4 °F – 176 °F)
<b>Colors</b>	<b>K-FS</b> grey (RAL 7035), <b>E-M-PA</b> black (RAL 9005)



AG	IG	Type	GL mm	H mm	D mm	 mm	Number
M 12 x 1,5	M 16 x 1,5	A	8	12	6,5	21	1.239.1216.50
M 16 x 1,5	M 20 x 1,5	A	8	13	9	25	1.239.1620.50
M 20 x 1,5	M 25 x 1,5	A	8	15	14	30	1.239.2025.50
M 25 x 1,5	M 32 x 1,5	C	15	15	16,5		1.239.2532.50
M 32 x 1,5	M 40 x 1,5	C	15	19,5	23		1.239.3240.50
M 40 x 1,5	M 50 x 1,5	C	15	19,5	30		1.239.4050.50
M 50 x 1,5	M 63 x 1,5	C	15	20	39		1.239.5063.50
M 12 x 1,5	PG 7	A	8	12	6,5	17	1.239.1207.50
M 16 x 1,5	PG 9	C	1	19	8,5		1.239.1609.50
M 20 x 1,5	PG 13,5	A	8	13	14	25	1.239.2013.50
M 63 x 1,5	PG 48	C	15	20	51		1.239.6348.50
PG 7	M 12 x 1,5	C	15	19	6		1.239.0712.11
PG 9	M 16 x 1,5	A	8	12	9	21	1.239.0916.11
PG 11	M 20 x 1,5	C	15	19	11,5		1.239.1120.11
PG 13,5	M 20 x 1,5	A	8	13	14	25	1.239.1320.11
PG 16	M 25 x 1,5	A	8	15	16	30	1.239.1625.11
PG 21	M 32 x 1,5	A	8	15	21	37	1.239.2132.11
PG 29	M 40 x 1,5	A	10	17	30	45	1.239.2940.11
PG 36	M 50 x 1,5	C	15	19,5	37		1.239.3650.11
PG 42	M 50 x 1,5	C	15	19,5	43		1.239.4250.11
PG 48	M 63 x 1,5	C	15	20	48		1.239.4863.11
PG 11	PG 13,5	B	8	15	24		1.233.1113.11
PG 13,5	PG 16	B	9	16	27		1.233.1316.11
PG 16	PG 21	B	10	19	33		1.233.1621.11
PG 21	PG 29	B	11	21	42		1.233.2129.11



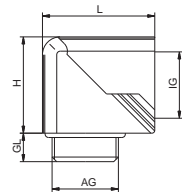
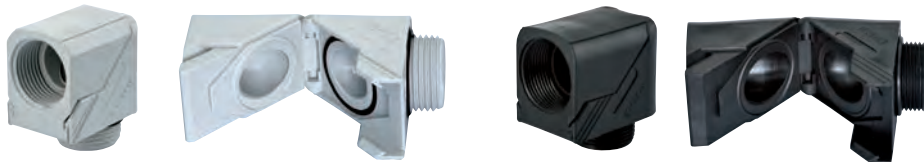
## Accessories

### 90° Snap Elbow

Metr., PG, NPT



<b>Material</b>	Polyamide
<b>O-Ring</b>	Buna-N
<b>Protection</b>	IP 68 (NEMA 6)
<b>Operating Temperature</b>	-20 °C – 80 °C (-4 °F – 176 °F)
<b>Colors</b>	grey (RAL 7035), black (RAL 9005)

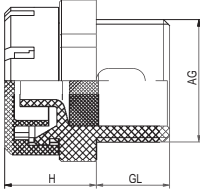


AG	IG	GL mm	H mm	L mm	R mm	Y mm	Number grey	Number black
M 16x1,5	M 16x1,5	8	23	28,5	5	19	1.316.1600.50	1.316.1601.50
M 20x1,5	M 20x1,5	9	30,5	35	7	24	1.316.2000.50	1.316.2001.50
M 25x1,5	M 25x1,5	11	40	49	10	33	1.316.2500.50	1.316.2501.50
PG 9	M 16x1,5	8	23	28,5	5	19	1.316.0900.11	1.316.0901.11
PG 13,5	M 20x1,5	9	30,5	35	7	24	1.316.1300.11	1.316.1301.11
PG 21	M 25x1,5	11	40	49	10	33	1.316.2100.11	1.316.2101.11
M 16x1,5	PG 9	8	23	28,5	5	19	1.315.1600.50	1.315.1601.50
M 20x1,5	PG 13,5	9	30,5	35	7	24	1.315.2000.50	1.315.2001.50
M 25x1,5	PG 21	11	40	49	10	33	1.315.2500.50	1.315.2501.50
M 32x1,5	PG 29	11	51,5	60	14	42	1.315.3200.50	1.315.3201.50
PG 9	PG 9	8	23	28,5	5	19	1.315.0900.11	1.315.0901.11
PG 11	PG 11	8	27	31,5	6	22	1.315.1100.11	1.315.1101.11
PG 13,5	PG 13,5	9	30,5	35	7	24	1.315.1300.11	1.315.1301.11
PG 16	PG 16	10	32,5	37,5	8	27	1.315.1600.11	1.315.1601.11
PG 21	PG 21	11	40	49	10	33	1.315.2100.11	1.315.2101.11
PG 29	PG 29	11	51,5	60	14	42	1.315.2900.11	1.315.2901.11
3/8" NPT	PG 9	15	23	28,5	5	19	1.315.3800.70	1.315.3801.70
1/2" NPT	PG 13,5	13	30,5	35	7	24	1.315.1200.70	1.315.1201.70
3/4" NPT	PG 21	13	40	49	10	33	1.315.3400.70	1.315.3401.70
1" NPT	PG 29	19	51,5	60	14	42	1.315.1000.70	1.315.1001.70





## Accessories

**KS** **Metr.**



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




AG	GL mm	H mm	 mm	Number grey	Number black
M 25x1,5	15	21,5	30	1.213.2500.50	1.213.2501.50

**GM-KS** **Metr.**



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



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



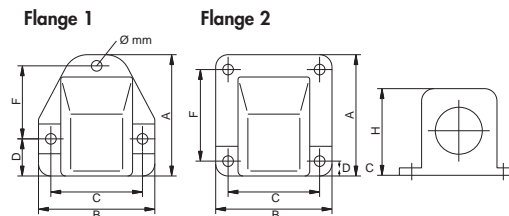
## Accessories

KF-G

Metr., PG



Material	Polyamide
Dichtung	Buna-N
Protection	IP 54
Operating Temperature	-40 °C – 110 °C (-40 °F – 230 °F)
Colors	grey (RAL 7011), black (RAL 9005)



Size	Flange	Ø mm	A mm	B mm	C mm	D mm	F mm	H mm	Number grey	Number black
M 16x1,5	1	4,3	49	47	37	15,5	29	35	1.312.1600.50	1.312.1601.50
M 20x1,5	1	4,5	49	47	37	15,5	29	35	1.312.2000.50	1.312.2001.50
M 25x1,5	1	6,0	69	65	51,5	21,5	41,5	44	1.312.2500.50	1.312.2501.50
M 32x1,5	2	6,5	90	78	64,5	9,5	64,5	55	1.312.3200.50	1.312.3201.50
M 40x1,5	2	6,5	99	94	79,5	10,5	79,5	66	1.312.4000.50	1.312.4001.50
M 50x1,5	2	6,5	116	101	87,5	12,5	87,5	76	1.312.5000.50	1.312.5001.50
PG 11	1	4,3	49	47	37	15,5	29	35	1.312.1100.11	1.312.1101.11
PG 16	1	4,3	49	47	37	15,5	29	35	1.312.1600.11	1.312.1601.11
PG 21	1	6,0	69	65	51,5	21,5	41,5	44	1.312.2100.11	1.312.2101.11
PG 29	2	6,5	90	78	64,5	9,5	64,5	55	1.312.2900.11	1.312.2901.11
PG 36	2	6,5	99	94	79,5	10,5	79,5	66	1.312.3600.11	1.312.3601.11
PG 48	2	6,5	116	101	87,5	12,5	87,5	76	1.312.4800.11	1.312.4801.11



## Accessories

FW-T

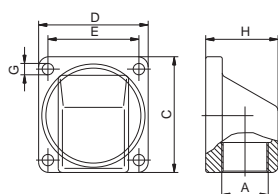
PG

RoHS



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

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



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



## Accessories

### HSK-ME

Metr., PG, NPT



**Material** Elastomer

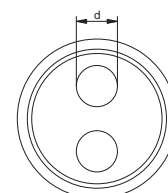


**Operating Temperature** -40°C – 100°C (-40°F – 212°F)

**Advice:**

- Installation instruction see page 174
- Other materials available upon request

! - The inserts are exclusively capable for the glands of the HSK series



Fits the following sizes		Number of Holes x d	Number	Number of Holes x d	Number	Number without holes
PG 7 / KR PG 9			1.089.0799.19			
PG 9 / KE PG 7 / KR PG 11	M 16 x 1,5	3/8" NPT	4 x 1,4	1.089.0900.19	2 x 3	1.089.0901.19 1.089.0999.19
PG 9 / KE PG 7 / KR PG 11	M 16 x 1,5	3/8" NPT	5 x 1,6	1.089.0902.19	10 x 1,4	1.089.0904.19
PG 11 / KE PG 9 / KR PG 13,5			2 x 3	1.089.1100.19	3 x 3	1.089.1101.19 1.089.1199.19
PG 11 / KE PG 9 / KR PG 13,5			2 x 4	1.089.1102.19	3 x 1,5	1.089.1103.19
PG 13,5 / KE PG 11 / KR PG 16	M 20 x 1,5	1/2" NPT	3 x 2	1.089.1300.19	6 x 3	1.089.1301.19 1.089.1399.19
PG 13,5 / KE PG 11 / KR PG 16	M 20 x 1,5	1/2" NPT	3 x 4	1.089.1302.19	2 x 5	1.089.1303.19
PG 16 / KE PG 13,5 / KR PG 21		1/2" NPT / 16	4 x 4	1.089.1602.19	5 x 4	1.089.1603.19
PG 16 / KE PG 13,5 / KR PG 21		1/2" NPT / 16	6 x 4	1.089.1604.19	2 x 6	1.089.1605.19
PG 21 / KE PG 16	M 25 x 1,5	3/4" NPT	4 x 6	1.089.2100.19	3 x 7	1.089.2101.19 1.089.2199.19
PG 21 / KE PG 16	M 25 x 1,5	3/4" NPT	2 x 8	1.089.2102.19	4 x 5	1.089.2103.19
PG 29	M 32 x 1,5	1" NPT / 1 1/4" NPT	6 x 6,5	1.089.2900.19	4 x 9	1.089.2901.19 1.089.2999.19
PG 36	M 40 x 1,5	1 1/2" NPT	5 x 9	1.089.3600.19	7 x 9	1.089.3601.19 1.089.3699.19
PG 36	M 40 x 1,5	1 1/2" NPT	6 x 8	1.089.3602.19	2 x 15	1.089.3603.19
PG 42	M 50 x 1,5			1.089.4299.19		
PG 48	M 63 x 1,5		8 x 10	1.089.4800.19	6 x 12	1.089.4801.19 1.089.4899.19

The shown inserts are samples, more inserts upon request



## Accessories

### HSK-FLAKA

Metr., PG, NPT

RoHS

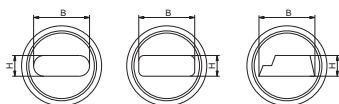
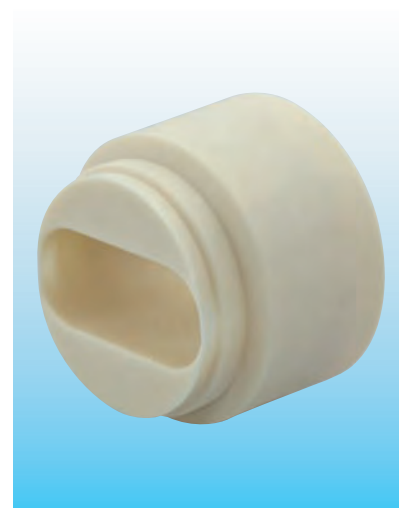
**Material** Elastomer

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

**Advice:**

- Installation instruction see page 174
- Other materials available upon request

! - The inserts are exclusively capable for the glands of the HSK series



ASI-BUS



Fits the following sizes			B x H mm	Number	B x H mm	Number
PG 13 (ASI-BUS)	M 20 x 1,5	1/2" NPT	10,4 x 4,2	1.091.1300.19		
PG 16/KE PG 13,5 / KR PG 21		1/2" NPT/16	14 x 6	1.091.1600.19	11,5 x 5	1.091.1601.19
PG 16/KE PG 13,5 / KR PG 21		1/2" NPT/16	12 x 7	1.091.1602.19		
PG 21/KE PG 16	M 25 x 1,5	3/4" NPT	14 x 6	1.091.2100.19	14 x 7	1.091.2101.19
PG 29	M 32 x 1,5	1" NPT/1 1/4" NPT	22 x 8	1.091.2900.19		
PG 36	M 40 x 1,5	1 1/2" NPT	28,5 x 10	1.091.3600.19	29 x 5,5	1.091.3601.19
PG 42	M 50 x 1,5		33,5 x 11,5	1.091.4200.19		
PG 48	M 63 x 1,5		38 x 12	1.091.4800.19		

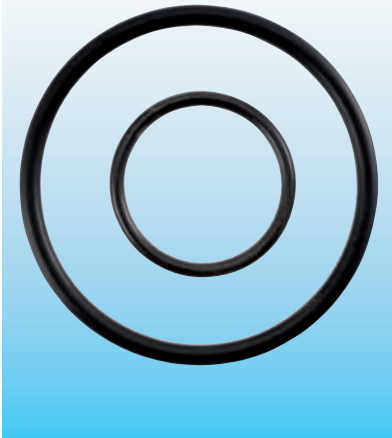
The shown inserts are samples, more inserts upon request



## Accessories

### O-Ring

Metr., PG, NPT



#### O-Ring Buna-N

Material Buna-N

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

#### O-Ring FPM

Material FPM

Operating Temperature -40 °C – 200 °C (-40 °F – 392 °F)

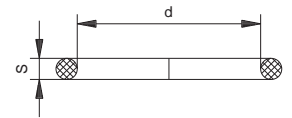
#### O-Ring VMQ

Material VMQ (Silicone)

Operating Temperature -60 °C – 250 °C (-76 °F – 482 °F)



#### O-Ring for HSK-K



Fits the following sizes	d mm	s mm	Number Buna-N	Number FPM	Number VMQ
M 12 x 1,5	10	1,5	1.321.1200.57	1.321.1200.58	1.321.1200.59
M 16 x 1,5	12	1,5	1.321.1600.57	1.321.1600.58	1.321.1600.59
M 20 x 1,5	17	1,8	1.321.2000.57	1.321.2000.58	1.321.2000.59
M 25 x 1,5	22	2	1.321.2500.57	1.321.2500.58	1.321.2500.59
M 32 x 1,5	29	2	1.321.3200.57	1.321.3200.58	1.321.3200.59
M 40 x 1,5	35	2	1.321.4000.57	1.321.4000.58	1.321.4000.59
M 50 x 1,5	43	2	1.321.5000.57	1.321.5000.58	1.321.5000.59
M 63 x 1,5	55	2	1.321.6300.57	1.321.6300.58	1.321.6300.59
PG 7	10	1,5	1.321.0700.17	1.321.0700.21	1.321.0700.22
PG 9	12	1,5	1.321.0900.17	1.321.0900.21	1.321.0900.22
PG 11	16	1,5	1.321.1100.17	1.321.1100.21	1.321.1100.22
PG 13,5	17	1,8	1.321.1300.17	1.321.1300.21	1.321.1300.22
PG 16	18	1,5	1.321.1600.17	1.321.1600.21	1.321.1600.22
PG 21	26	2	1.321.2100.17	1.321.2100.21	1.321.2100.22
PG 29	33	2	1.321.2900.17	1.321.2900.21	1.321.2900.22
PG 36	43	2	1.321.3600.17	1.321.3600.21	1.321.3600.22
PG 42	50	2	1.321.4200.17	1.321.4200.21	1.321.4200.22
PG 48	55	2	1.321.4800.17	1.321.4800.21	1.321.4800.22
3/8" NPT	13	2	1.321.3800.77	1.321.3800.78	1.321.3800.79
1/2" NPT	19	1,8	1.321.1200.77	1.321.1200.78	1.321.1200.79
3/4" NPT	22	2	1.321.3400.77	1.321.3400.78	1.321.3400.79
1" NPT	29	2	1.321.1000.77	1.321.1000.78	1.321.1000.79
1 1/4" NPT	38	2,5	1.321.5400.77	1.321.5400.78	1.321.5400.79
1 1/2" NPT	45	2,5	1.321.6400.77	1.321.6400.78	1.321.6400.79





## Accessories

**Thread Seal Ring**
**Metr.**

RoHS

**Thread Seal Ring PE**

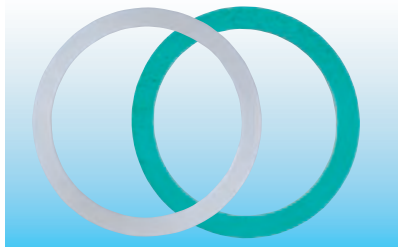
**Material** Polyethylene

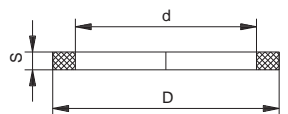
**Operating Temperature** -30 °C – 70 °C (-22 °F – 158 °F)

**Thread Seal Ring HD**

**Material** Fiber-reinforced plastic

**Operating Temperature** -40 °C – 300 °C (-40 °F – 572 °F)





Size	d mm	D mm	S mm	Number Polyethylene	Number Fiber-reinforced plastic
M 12 x 1,5	12	16	2	1.325.1200.59	1.325.1200.50
M 16 x 1,5	16	20	2	1.325.1600.59	1.325.1600.50
M 20 x 1,5	20	25	2	1.325.2000.59	1.325.2000.50
M 25 x 1,5	25	31	2	1.325.2500.59	1.325.2500.50
M 32 x 1,5	32	38	2	1.325.3200.59	1.325.3200.50
M 40 x 1,5	40	48	2	1.325.4000.59	1.325.4000.50
M 50 x 1,5	50	58	2	1.325.5000.59	1.325.5000.50
M 63 x 1,5	63	72	2	1.325.6300.59	1.325.6300.50

**Thread Seal Ring**
**PG**

RoHS

**Thread Seal Ring PE**

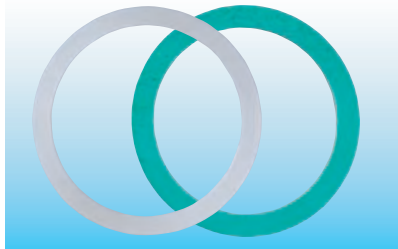
**Material** Polyethylene

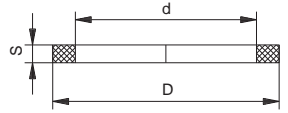
**Operating Temperature** -30 °C – 70 °C (-22 °F – 158 °F)

**Thread Seal Ring HD**

**Material** Fiber-reinforced plastic

**Operating Temperature** -40 °C – 300 °C (-40 °F – 572 °F)



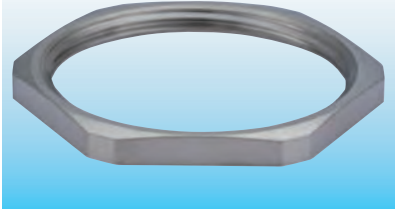


Size	d mm	D mm	S mm	Number Polyethylene	Number Fiber-reinforced plastic
PG 7	12,5	16,5	1,5	1.325.0700.19	1.325.0700.20
PG 9	15,2	19	1,5	1.325.0900.19	1.325.0900.20
PG 11	18,6	22,5	1,5	1.325.1100.19	1.325.1100.20
PG 13,5	20,4	25	1,5	1.325.1300.19	1.325.1300.20
PG 16	22,5	27	1,5	1.325.1600.19	1.325.1600.20
PG 21	28,3	33,5	1,5	1.325.2100.19	1.325.2100.20
PG 29	37	43,5	2	1.325.2900.19	1.325.2900.20
PG 36	47	55	2	1.325.3600.19	1.325.3600.20
PG 42	54	63	2	1.325.4200.19	1.325.4200.20
PG 48	59,3	69	2	1.325.4800.19	1.325.4800.20






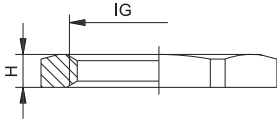
## Accessories



**GM-Ms** **Metrc., PG, G**



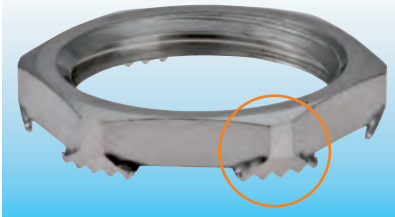
**Material** Nickel plated brass





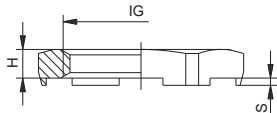
IG	H mm	 mm	Number	IG	H mm	 mm	Number
M 12 x 1,5	2,8	15	1.161.1200.50	PG 7	2,8	15	1.161.0700.01
M 16 x 1,5	2,8	19	1.161.1600.50	PG 9	2,8	18	1.161.0900.01
M 20 x 1,5	3,0	23	1.161.2000.50	PG 11	3,0	21	1.161.1100.01
M 25 x 1,5	3,5	29	1.161.2500.50	PG 13,5	3,0	23	1.161.1300.01
M 32 x 1,5	4,0	36	1.161.3200.50	PG 16	3,0	26	1.161.1600.01
M 40 x 1,5	4,5	45	1.161.4000.50	PG 21	3,5	32	1.161.2100.01
M 50 x 1,5	5,5	55	1.161.5000.50	PG 29	4,0	41	1.161.2900.01
M 63 x 1,5	6,0	70	1.161.6300.50	PG 36	5,0	51	1.161.3600.01
M 75 x 1,5	8,0	85	1.161.7500.50	PG 42	5,0	60	1.161.4200.01
M 80 x 2	8,0	90	1.161.8000.50	PG 48	5,5	64	1.161.4800.01
M 90 x 2	8,0	100	1.161.9000.50	G 2 1/2"	7	80	1.106.5200.99
M 100 x 2	11	115	1.161.1000.50	G 3"	8	95	1.106.3000.99
M 110 x 2	11	125	1.161.1100.50	G 4"	11	125	1.106.4000.99



**GM-EMV** **Metrc., PG**



**Material** Nickel plated brass





IG	H mm	 mm	S mm	Number	IG	H mm	 mm	S mm	Number
M 12 x 1,5	2,8	15	0,7	1.167.1200.50	PG 7	2,8	15	0,7	1.167.0700.01
M 16 x 1,5	2,8	19	0,7	1.167.1600.50	PG 9	2,8	18	0,7	1.167.0900.01
M 20 x 1,5	3,0	24	0,7	1.167.2000.50	PG 11	3,0	21	0,7	1.167.1100.01
M 25 x 1,5	3,5	30	0,7	1.167.2500.50	PG 13,5	3,0	23	0,7	1.167.1300.01
M 32 x 1,5	4,5	36	0,7	1.167.3200.50	PG 16	3,0	26	0,7	1.167.1600.01
M 40 x 1,5	5,0	46	0,7	1.167.4000.50	PG 21	3,5	32	0,7	1.167.2100.01
M 50 x 1,5	5,0	60	0,7	1.167.5000.50	PG 29	4,0	41	0,7	1.167.2900.01
M 63 x 1,5	6,0	70	0,7	1.167.6300.50	PG 36	5,0	51	0,7	1.167.3600.01
					PG 42	5,0	60	0,7	1.167.4200.01
					PG 48	5,5	64	0,7	1.167.4800.01

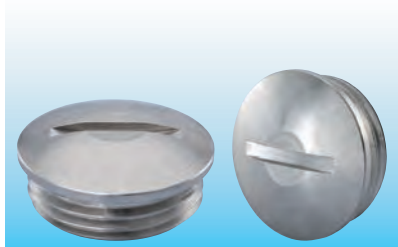


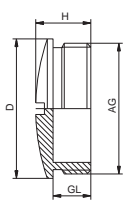
## Accessories

### V-N-Ms Metr., PG



<b>Material</b>	Nickel plated brass
<b>Protection</b>	IP 54



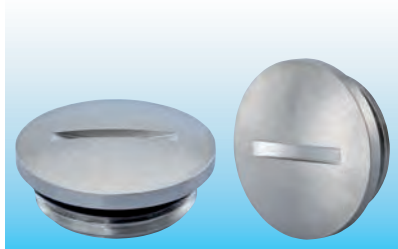


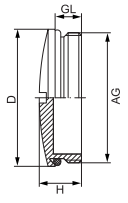
IG	GL mm	H mm	D mm	Number	IG	GL mm	H mm	D mm	Number
M 12 x 1,5	5	7,5	14	1.052.1200.50	PG 7	5	8	14	1.052.0700.01
M 16 x 1,5	5	9,0	18	1.052.1600.50	PG 9	6	9	17	1.052.0900.01
M 20 x 1,5	6,5	9,5	22	1.052.2000.50	PG 11	6	9	20	1.052.1100.01
M 25 x 1,5	7	11,0	28	1.052.2500.50	PG 13,5	6,5	9,5	22	1.052.1300.01
M 32 x 1,5	8	12,0	35	1.052.3200.50	PG 16	6,5	9,5	24	1.052.1600.01
M 40 x 1,5	8,5	13,0	44	1.052.4000.50	PG 21	7	11	30	1.052.2100.01
M 50 x 1,5	9	15,0	54	1.052.5000.50	PG 29	8	12	39	1.052.2900.01
M 63 x 1,5	10	16,0	67	1.052.6300.50	PG 36	9	15	50	1.052.3600.01
					PG 42	10	16	57	1.052.4200.01
					PG 48	10	16	64	1.052.4800.01

### V-N-Ms-SD Metr., PG

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





**Advice:**

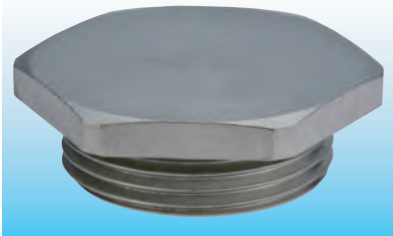
- NPT thread on request
- Elongated thread on request
- Other O-Ring materials upon request

IG	GL mm	H mm	D mm	Number	IG	GL mm	H mm	D mm	Number
M 12 x 1,5	6,5	9,5	14	1.052.1201.50	PG 7	4,8	8	14	1.052.0701.01
M 16 x 1,5	6	9	20	1.052.1601.50	PG 9	5,5	9	17	1.052.0901.01
M 20 x 1,5	6,5	9,5	24	1.052.2001.50	PG 11	5,5	9	20	1.052.1101.01
M 25 x 1,5	7	11	28	1.052.2501.50	PG 13,5	6	9,5	22	1.052.1301.01
M 32 x 1,5	8	12,5	35	1.052.3201.50	PG 16	6	9,5	24	1.052.1601.01
M 40 x 1,5	8	12	45	1.052.4001.50	PG 21	6,5	11	30	1.052.2101.01
M 50 x 1,5	9	15	55	1.052.5001.50	PG 29	7,5	12	39	1.052.2901.01
M 63 x 1,5	10	16	68	1.052.6301.50	PG 36	9	15	50	1.052.3601.01
					PG 42	10	16	57	1.052.4201.01
					PG 48	10	16	64	1.052.4801.01




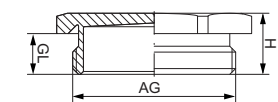
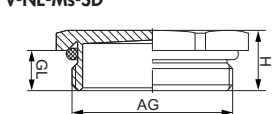
## Accessories


**V-NE-Ms**
**Metr.**



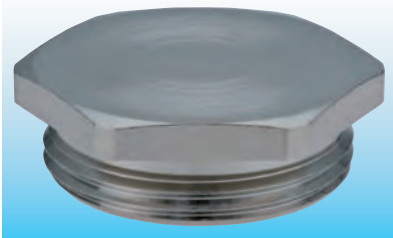
**Advice:**  
 - NPT thread on request  
 - Elongated thread on request  
 - Other O-Ring materials upon request

<b>Material</b>	Nickel plated brass
<b>V-NE-Ms</b>	
<b>Protection</b>	IP 54
<b>V-NE-Ms-SD/ V-NE-Ms-SD-FPM</b>	
<b>Protection</b>	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
<b>O-Ring</b>	-20 °C – 95 °C (-4 °F – 203 °F) Buna-N -20 °C – 180 °C (-4 °F – 356 °F) FPM


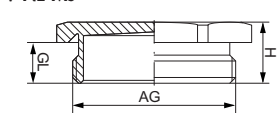
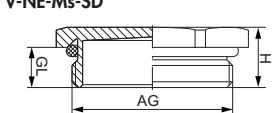
AG	GL mm	H mm	 mm	Number V-NE-Ms without O-Ring	Number V-NE-Ms-SD -20 °C – 95 °C -4 °F – 203 °F	Number V-NE-Ms-SD-FPM -20 °C – 180 °C -4 °F – 356 °F
M 12 x 1,5	6,5	9,5	14	1.155.1200.50	1.156.1200.50	1.157.1200.50
M 16 x 1,5	6	9	19	1.155.1600.50	1.156.1600.50	1.157.1600.50
M 20 x 1,5	6	9,5	22	1.155.2000.50	1.156.2000.50	1.157.2000.50
M 25 x 1,5	7	10,5	30	1.155.2500.50	1.156.2500.50	1.157.2500.50
M 32 x 1,5	8	12,5	41	1.155.3200.50	1.156.3200.50	1.157.3200.50
M 40 x 1,5	8	13	46	1.155.4000.50	1.156.4000.50	1.157.4000.50
M 50 x 1,5	9	15	55	1.155.5000.50	1.156.5000.50	1.157.5000.50
M 63 x 1,5	10	16,5	70	1.155.6300.50	1.156.6300.50	1.157.6300.50


**V-NE-Ms**
**PG**



**Advice:**  
 - Other O-Ring materials upon request

<b>Material</b>	Nickel plated brass
<b>V-NE-Ms</b>	
<b>Protection</b>	IP 54
<b>V-NE-Ms-SD/ V-NE-Ms-SD-FPM</b>	
<b>Protection</b>	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
<b>O-Ring</b>	-20 °C – 95 °C (-4 °F – 203 °F) Buna-N -20 °C – 180 °C (-4 °F – 356 °F) FPM

AG	GL mm	H mm	 mm	Number V-NE-Ms without O-Ring	Number V-NE-Ms-SD -20 °C – 95 °C -4 °F – 203 °F	Number V-NE-Ms-SD-FPM -20 °C – 180 °C -4 °F – 356 °F
PG 7	5	8	14	1.155.0700.01	1.156.0700.01	1.157.0700.01
PG 9	6	9	17	1.155.0900.01	1.156.0900.01	1.157.0900.01
PG 11	6	9,5	20	1.155.1100.01	1.156.1100.01	1.157.1100.01
PG 13,5	6,5	10	22	1.155.1300.01	1.156.1300.01	1.157.1300.01
PG 16	6,5	10	24	1.155.1600.01	1.156.1600.01	1.157.1600.01
PG 21	7	10,5	30	1.155.2100.01	1.156.2100.01	1.157.2100.01
PG 29	8	12,5	41	1.155.2900.01	1.156.2900.01	1.157.2900.01
PG 36	8	13	50	1.155.3600.01	1.156.3600.01	1.157.3600.01
PG 42	9	15	58	1.155.4200.01	1.156.4200.01	1.157.4200.01
PG 48	10	16,5	65	1.155.4800.01	1.156.4800.01	1.157.4800.01



## Accessories

R-H

Metr., PG

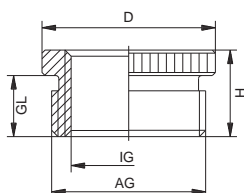
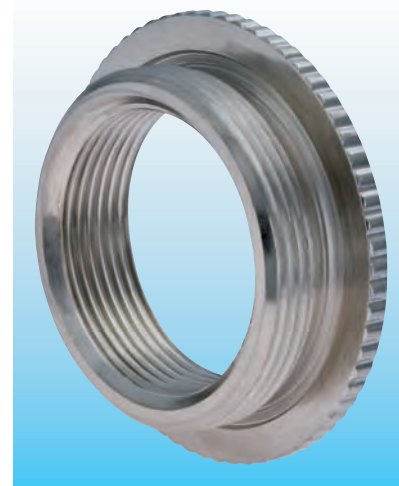


**Material**

Nickel plated brass

**Advice:**

- Metric threads with O-Ring thread seal available

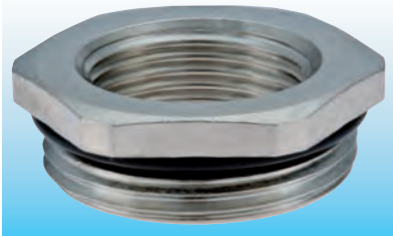


AG	IG	GL mm	H mm	D mm	Number
M 16 x 1,5	M 12 x 1,5	6,0	8,5	18	1.076.1612.50
M 20 x 1,5	M 12 x 1,5	6,5	9,0	24	1.076.2012.50
M 20 x 1,5	M 16 x 1,5	6,5	9,0	24	1.076.2016.50
M 25 x 1,5	M 16 x 1,5	7,0	10,0	30	1.076.2516.50
M 25 x 1,5	M 20 x 1,5	7,0	10,0	30	1.076.2520.50
M 32 x 1,5	M 20 x 1,5	8,0	11,5	39	1.076.3220.50
M 32 x 1,5	M 25 x 1,5	8,0	11,5	39	1.076.3225.50
M 40 x 1,5	M 25 x 1,5	8,0	11,5	43	1.076.4025.50
M 40 x 1,5	M 32 x 1,5	9,0	12,5	43	1.076.4032.50
M 50 x 1,5	M 32 x 1,5	10,0	14,0	57	1.076.5032.50
M 50 x 1,5	M 40 x 1,5	10,0	14,0	57	1.076.5040.50
M 63 x 1,5	M 40 x 1,5	10,0	14,0	64	1.076.6340.50
M 63 x 1,5	M 50 x 1,5	10,0	14,0	64	1.076.6350.50
PG 9	PG 7	6	8,5	17	1.071.0907.01
PG 11	PG 7	6	8,5	20	1.071.1107.01
PG 11	PG 9	6	8,5	20	1.071.1109.01
PG 13,5	PG 9	6,5	9	22	1.071.1309.01
PG 13,5	PG 11	6,5	9	22	1.071.1311.01
PG 16	PG 9	6,5	9,5	24	1.071.1609.01
PG 16	PG 11	6,5	9,5	24	1.071.1611.01
PG 16	PG 13,5	6,5	9,5	24	1.071.1613.01
PG 21	PG 11	7	10	30	1.071.2111.01
PG 21	PG 13,5	7	10	30	1.071.2113.01
PG 21	PG 16	7	10	30	1.071.2116.01
PG 29	PG 16	8	11,5	39	1.071.2916.01
PG 29	PG 21	8	11,5	39	1.071.2921.01
PG 36	PG 21	9	12,5	50	1.071.3621.01
PG 36	PG 29	9	12,5	50	1.071.3629.01
PG 42	PG 29	10	14	57	1.071.4229.01
PG 42	PG 36	10	14	57	1.071.4236.01
PG 48	PG 36	10	14	64	1.071.4836.01
PG 48	PG 42	10	14	64	1.071.4842.01






## Accessories

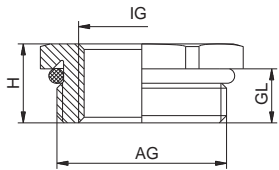
**RSD-Ms**
**Metr.**





<b>Material</b>	Nickel plated brass
<b>O-Ring</b>	Buna-N

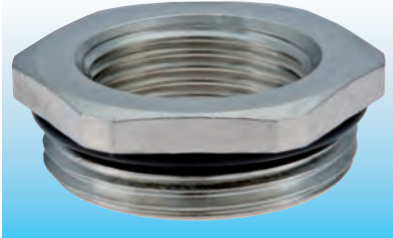
**Advice:**  
 - Other O-Ring materials upon request





AG	IG mm	GL mm	H mm	 mm	Number
M 16 x 1,5	M 12 x 1,5	5	8	17	1.077.1612.50
M 20 x 1,5	M 12 x 1,5	6	9	22	1.077.2012.50
M 20 x 1,5	M 16 x 1,5	6	9	22	1.077.2016.50
M 25 x 1,5	M 16 x 1,5	7	10	27	1.077.2516.50
M 25 x 1,5	M 20 x 1,5	7	10	27	1.077.2520.50
M 32 x 1,5	M 16 x 1,5	8	11	34	1.077.3216.50
M 32 x 1,5	M 20 x 1,5	8	11	34	1.077.3220.50
M 32 x 1,5	M 25 x 1,5	8	11	34	1.077.3225.50
M 40 x 1,5	M 20 x 1,5	8	12	43	1.077.4020.50
M 40 x 1,5	M 25 x 1,5	8	12	43	1.077.4025.50
M 40 x 1,5	M 32 x 1,5	8	12	43	1.077.4032.50

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

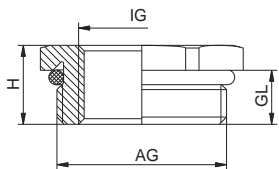
**RSD-Ms**
**PG**





<b>Material</b>	Nickel plated brass
<b>O-Ring</b>	Buna-N

**Advice:**  
 - Other O-Ring materials upon request





AG	IG mm	GL mm	H mm	 mm	Number
PG 9	PG 7	6	8,8	17	1.077.0907.01
PG 11	PG 7	6	9	20	1.077.1107.01
PG 11	PG 9	6	9	20	1.077.1109.01
PG 13,5	PG 9	6,5	9,5	22	1.077.1309.01
PG 13,5	PG 11	6,5	9,5	22	1.077.1311.01
PG 16	PG 9	6,5	9,5	24	1.077.1609.01
PG 16	PG 11	6,5	9,5	24	1.077.1611.01
PG 16	PG 13,5	6,5	9,5	24	1.077.1613.01
PG 21	PG 11	7	10,3	30	1.077.2111.01
PG 21	PG 13,5	7	10,3	30	1.077.2113.01
PG 21	PG 16	7	10,3	30	1.077.2116.01


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

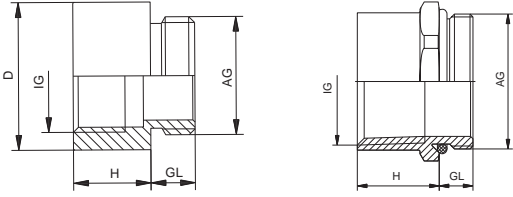
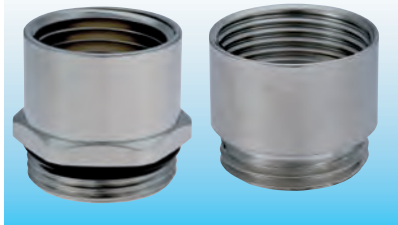



## Accessories

**RE-Ms** **Metr.**



  **Material** Nickel plated brass

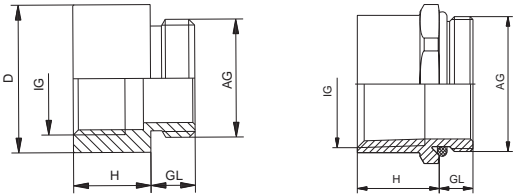
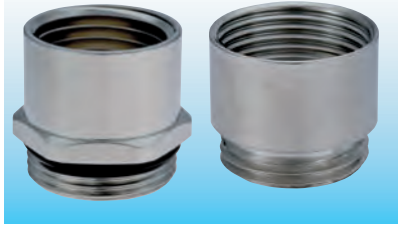






AG	IG	GL mm	H mm	D mm	 mm	Number
M 16 x 1,5	PG 9	6	10,5	20		1.039.1609.01
M 20 x 1,5	PG 11	6,5	12,5	22		1.039.2011.01
M 20 x 1,5	PG 13,5	6,5	12,5	22		1.039.2013.01
M 20 x 1,5	PG 16	6,5	12,5	24		1.039.2016.01
M 25 x 1,5	PG 16	6,5	12,5	28		1.039.2516.01
M 25 x 1,5	PG 21	6,5	14,5	30		1.039.2521.01
M 32 x 1,5	PG 29	7	16	39		1.039.3229.01
M 16 x 1,5	1/2" NPT	6	17		24	1.171.1612.50
M 20 x 1,5	1/2" NPT	6	17		24	1.171.2012.50
M 25 x 1,5	1/2" NPT	7	8		30	1.171.2512.50
M 25 x 1,5	3/4" NPT	7	19		30	1.171.2534.50
M 32 x 1,5	1" NPT	8	25		40	1.171.3210.50
M 32 x 1,5	1 1/4" NPT	8	25		46	1.171.3254.50

**RE-Ms** **PG**

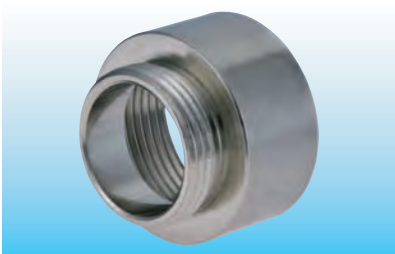



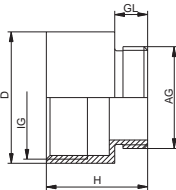
  **Material** Nickel plated brass

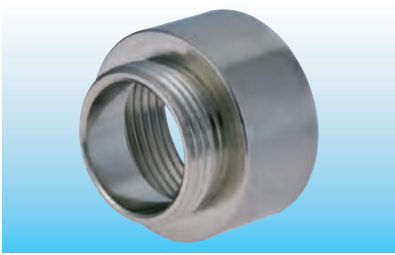


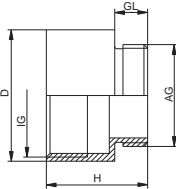



AG	IG	GL mm	H mm	D mm	 mm	Number
PG 9	M 16 x 1,5	6	10,5	20		1.039.0916.01
PG 11	M 20 x 1,5	6,5	12,5	22		1.039.1120.01
PG 13,5	M 20 x 1,5	6,5	12,5	22		1.039.1320.01
PG 16	M 25 x 1,5	6,5	14,5	27		1.039.1625.01
PG 11	1/2" NPT	6	16,7		24	1.171.1112.01
PG 13,5	1/2" NPT	6,5	17		24	1.171.1312.01
PG 16	1/2" NPT	6,5	16,5		24	1.171.1612.01
PG 21	1/2" NPT	7	8		30	1.171.2112.01
PG 21	3/4" NPT	7	17		30	1.171.2134.01
PG 29	1" NPT	8	12		40	1.171.2910.01



## Accessories

<b>E-Ms</b>					<b>Metr.</b>
	<b>Material</b> Nickel plated brass				  
					
AG	IG	GL mm	H mm	D mm	Number
M 12 x 1,5	M 16 x 1,5	5	15	18	1.033.1216.50
M 16 x 1,5	M 20 x 1,5	6	17,5	22	1.033.1620.50
M 20 x 1,5	M 25 x 1,5	6,5	19	27	1.033.2025.50
M 25 x 1,5	M 32 x 1,5	6,5	21	34	1.033.2532.50
M 32 x 1,5	M 40 x 1,5	7	23	42	1.033.3240.50
M 40 x 1,5	M 50 x 1,5	9	31	53	1.033.4050.50
M 50 x 1,5	M 63 x 1,5	9	31	66	1.033.5063.50




<b>E-Ms</b>					<b>PG</b>
	<b>Material</b> Nickel plated brass				 
					
AG	IG	GL mm	H mm	D mm	Number
PG 7	PG 9	5	15	17	1.033.0709.01
PG 9	PG 11	6	16,5	20	1.033.0911.01
PG 9	PG 13,5	6	17,5	22	1.033.0913.01
PG 11	PG 13,5	6	17,5	22	1.033.1113.01
PG 11	PG 16	6	18,5	24	1.033.1116.01
PG 11	PG 21	6	20,5	30	1.033.1121.01
PG 13,5	PG 16	6,5	19	24	1.033.1316.01
PG 13,5	PG 21	6,5	21	30	1.033.1321.01
PG 16	PG 21	6,5	21	30	1.033.1621.01
PG 16	PG 29	6,5	22,5	39	1.033.1629.01
PG 21	PG 29	7	23	39	1.033.2129.01
AG	IG	GL mm	H mm	D mm	Number
PG 29	PG 36	8	27,5	50	1.033.2936.01
PG 36	PG 42	9	31	57	1.033.3642.01
PG 42	PG 48	10	33	64	1.033.4248.01






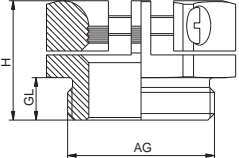
## Accessories



**KLE** **Metr.**



**Material** Nickel plated brass



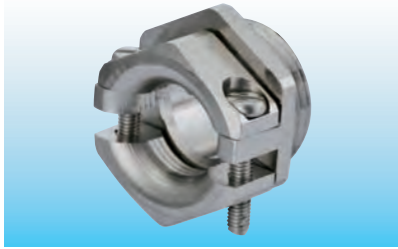


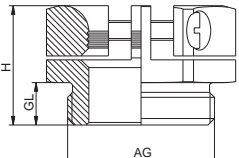
AG	GL	H mm	 mm	 mm	Number
M12 x 1,5	5,5	15,0	16	5-7,5	1.143.1200.50
M16 x 1,5	6,0	16,0	19	7-10	1.143.1600.50
M20 x 1,5	6,5	18,0	24	10-14	1.143.2000.50
M25 x 1,5	8,0	21,0	34	12-21,5	1.143.2500.50
M32 x 1,5	8,0	22,0	42	16-27	1.143.3200.50
M40 x 1,5	9,5	25,5	52	22-33	1.143.4000.50
M50 x 1,5	9,5	25,5	52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



**KLE** **PG**

**Material** Nickel plated brass



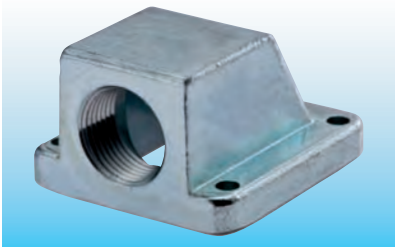


AG	GL	H mm	 mm	 mm	Number
PG 7	5,5	14,8	16	5,5-8	1.143.0700.01
PG 9	6	16,6	19	6,5-10	1.143.0900.01
PG 11	6	17,3	22	7,5-12	1.143.1100.01
PG 13,5	6,5	17,8	24	8,5-14	1.143.1300.01
PG 16	6,5	18,3	26	9,5-16	1.143.1600.01
PG 21	7,5	20,8	33	12-21	1.143.2100.01
PG 29	8	21,8	42	19-30	1.143.2900.01
PG 36	9,5	25,3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




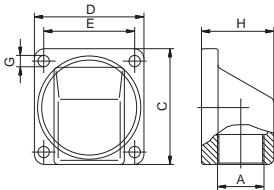


## Accessories

**FW-ZN** **Metr.**

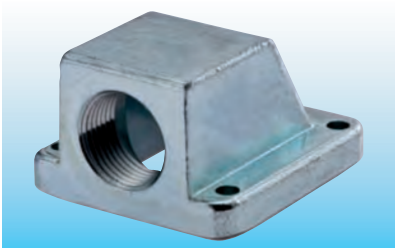


<b>Material</b>	Zinc die casting
<b>Protection</b>	IP 65
<b>O-Ring</b>	Buna-N
<b>Operating Temperature</b>	-20 °C – 95 °C (-4 °F – 203 °F)



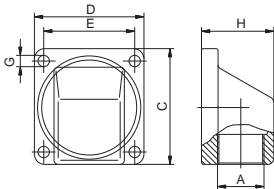



  
  


A	C mm	D mm	E mm	G mm	H mm	Number
M 20 x 1,5	56	53	44	5,5	35	1.306.2000.50
M 25 x 1,5	65	63	54	5,5	42	1.306.2500.50
M 32 x 1,5	75	71	60	5,5	52	1.306.3200.50
M 50 x 1,5	93	89	72	6,5	69	1.306.5000.50
M 63 x 1,5	114	96	84	6,5	74	1.306.6300.50

**FW-ZN** **PG**



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





  
  



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

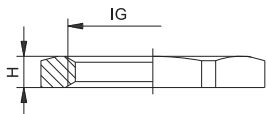


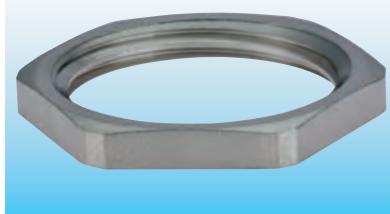
## Accessories

**GM-INOX** **Metr.**



Material 1.4305










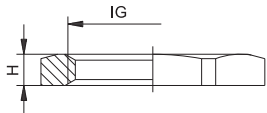
**Advice:**

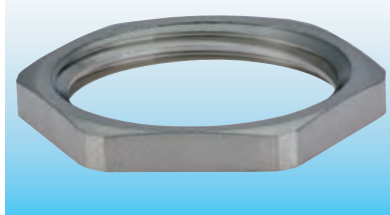
- Other sizes upon request
- Other steel upon request

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

**GM-INOX** **PG**




Material 1.4305

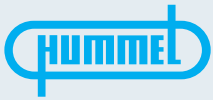




**Advice:**

- Other sizes upon request
- Other steel upon request

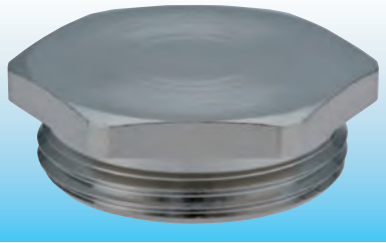
IG mm	H mm	 mm	Number
PG 7	2,8	17	1.161.0700.08
PG 9	2,8	22	1.161.0900.08
PG 11	3	22	1.161.1100.08
PG 13,5	3	24	1.161.1300.08
PG 16	3	27	1.161.1600.08
PG 21	3,5	32	1.161.2100.08
PG 29	4	41	1.161.2900.08
PG 36	5	50	1.161.3600.08



## Accessories

### V-INOX

Metr.

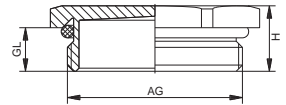


Material	1.4305
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
O-Ring	Buna-N / FPM / VMQ



**Advice:**

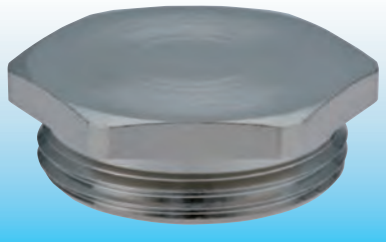
- Elongated thread on request
- Other sizes upon request
- AISI 316L on request



AG	GL mm	H mm	 mm	Number V-INOX-Buna-N -20 °C – 95 °C -4 °F – 203 °F	Number V-INOX-FPM -20 °C – 180 °C -4 °F – 356 °F	Number V-INOX-VMQ -60 °C – 180 °C -76 °F – 356 °F
M 12 x 1,5	6,5	9,5	14	1.152.1200.50	1.153.1200.50	1.154.1200.50
M 16 x 1,5	6	9	19	1.152.1600.50	1.153.1600.50	1.154.1600.50
M 20 x 1,5	6	9,5	22	1.152.2000.50	1.153.2000.50	1.154.2000.50
M 25 x 1,5	7	10,5	30	1.152.2500.50	1.153.2500.50	1.154.2500.50
M 32 x 1,5	8	12,5	41	1.152.3200.50	1.153.3200.50	1.154.3200.50
M 40 x 1,5	8	13	46	1.152.4000.50	1.153.4000.50	1.154.4000.50

### V-INOX

PG

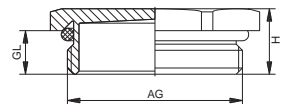


Material	1.4305
Protection	IP 68 – 10 bar / IP 69K (NEMA 6 – 150 PSIG)
O-Ring	Buna-N / FPM / VMQ



**Advice:**

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



AG	GL mm	H mm	 mm	Number V-INOX-Buna-N -20 °C – 95 °C -4 °F – 203 °F	Number V-INOX-FPM -20 °C – 180 °C -4 °F – 356 °F	Number V-INOX-VMQ -60 °C – 180 °C -76 °F – 356 °F
PG 7	5	8	14	1.152.0700.01	1.153.0700.01	1.154.0700.01
PG 9	6	9	17	1.152.0900.01	1.153.0900.01	1.154.0900.01
PG 11	6	9,5	20	1.152.1100.01	1.153.1100.01	1.154.1100.01
PG 13,5	6,5	10	22	1.152.1300.01	1.153.1300.01	1.154.1300.01
PG 16	6,5	10	24	1.152.1600.01	1.153.1600.01	1.154.1600.01
PG 21	7	10,5	30	1.152.2100.01	1.153.2100.01	1.154.2100.01
PG 29	8	12,5	41	1.152.2900.01	1.153.2900.01	1.154.2900.01
PG 36	8	13	50	1.152.3600.01	1.153.3600.01	1.154.3600.01



## Accessories

### RS-INOX / RSD-INOX

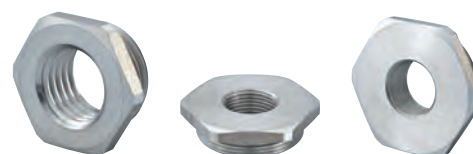
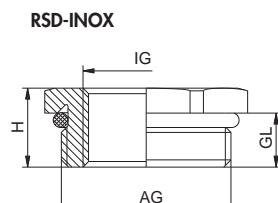
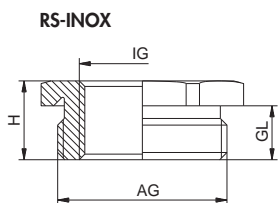
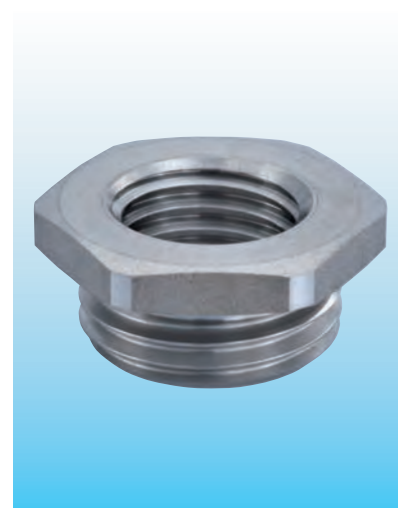
Metr.



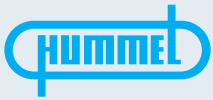
Material 1.4305

O-Ring Buna-N

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



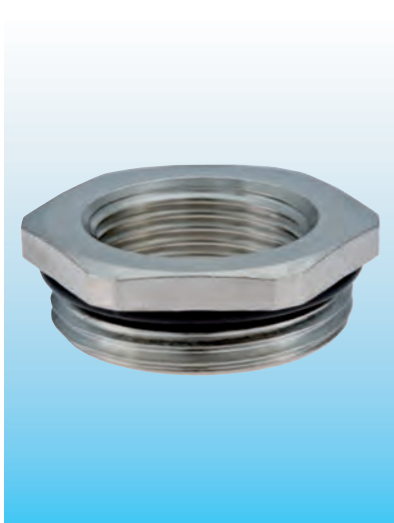
AG	IG	GL mm	H mm	D mm	Number RS-INOX without O-Ring	Number RSD-INOX -20 °C – 95 °C -4 °F – 203 °F
M 16 x 1,5	M 12 x 1,5	5	9	17	1.094.1612.50	1.097.1612.50
M 20 x 1,5	M 12 x 1,5	6	9,5	22	1.094.2012.50	1.097.2012.50
M 20 x 1,5	M 16 x 1,5	6	9,5	22	1.094.2016.50	1.097.2016.50
M 25 x 1,5	M 16 x 1,5	7	10,5	27	1.094.2516.50	1.097.2516.50
M 25 x 1,5	M 20 x 1,5	7	10,5	27	1.094.2520.50	1.097.2520.50
M 32 x 1,5	M 16 x 1,5	8	12,5	34	1.094.3216.50	1.097.3216.50
M 32 x 1,5	M 20 x 1,5	8	12,5	34	1.094.3220.50	1.097.3220.50
M 32 x 1,5	M 25 x 1,5	8	12,5	34	1.094.3225.50	1.097.3225.50
M 40 x 1,5	M 20 x 1,5	8	13	43	1.094.4020.50	1.097.4020.50
M 40 x 1,5	M 25 x 1,5	8	13	43	1.094.4025.50	1.097.4025.50
M 40 x 1,5	M 32 x 1,5	8	13	43	1.094.4032.50	1.097.4032.50
M 50 x 1,5	M 25 x 1,5	9	15	55	1.094.5025.50	1.097.5025.50
M 50 x 1,5	M 32 x 1,5	9	15	55	1.094.5032.50	1.097.5032.50
M 50 x 1,5	M 40 x 1,5	9	15	55	1.094.5040.50	1.097.5040.50
M 63 x 1,5	M 32 x 1,5	10	16,5	65	1.094.6332.50	1.097.6332.50
M 63 x 1,5	M 40 x 1,5	10	16,5	65	1.094.6340.50	1.097.6340.50
M 63 x 1,5	M 50 x 1,5	10	16,5	65	1.094.6350.50	1.097.6350.50



## Accessories

### RS-INOX / RSD-INOX

PG

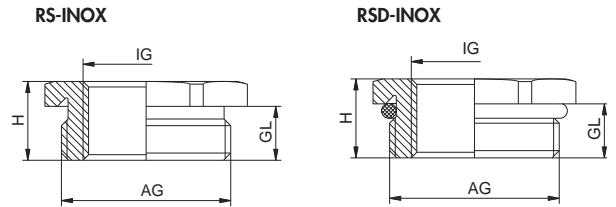


**Material** 1.4305



**O-Ring** Buna-N

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



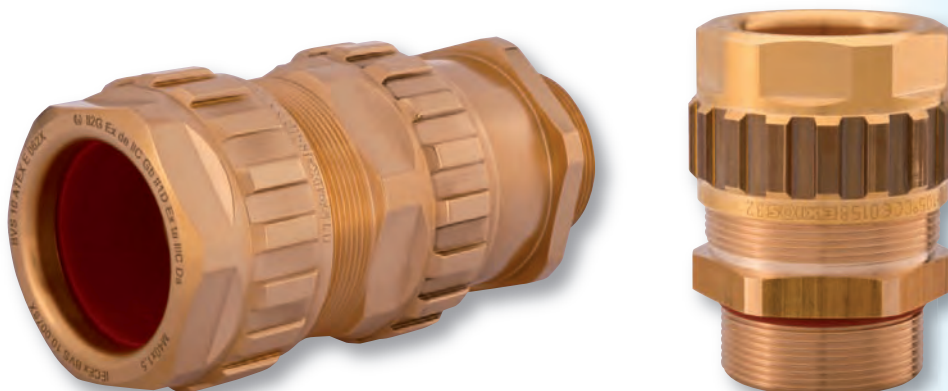
AG	IG	GL mm	H mm	D mm	Number RS-INOX without O-Ring	Number RSD-INOX -20 °C – 95 °C -4 °F – 203 °F
PG 9	PG 7	6	8,8	17	1.094.0907.01	1.097.0907.01
PG 11	PG 7	6	9	22	1.094.1107.01	1.097.1107.01
PG 11	PG 9	6	9	22	1.094.1109.01	1.097.1109.01
PG 13,5	PG 9	6,5	9,5	22	1.094.1309.01	1.097.1309.01
PG 13,5	PG 11	6,5	9,5	22	1.094.1311.01	1.097.1311.01
PG 16	PG 9	6,5	9,5	24	1.094.1609.01	1.097.1609.01
PG 16	PG 11	6,5	9,5	24	1.094.1611.01	1.097.1611.01
PG 16	PG 13,5	6,5	9,5	24	1.094.1613.01	1.097.1613.01
PG 21	PG 11	7	10,3	30	1.094.2111.01	1.097.2111.01
PG 21	PG 13,5	7	10,3	30	1.094.2113.01	1.097.2113.01
PG 21	PG 16	7	10,3	30	1.094.2116.01	1.097.2116.01
PG 29	PG 16	8	11,5	40	1.094.2916.01	1.097.2916.01
PG 29	PG 21	8	11,5	40	1.094.2921.01	1.097.2921.01
PG 36	PG 21	9	12,5	50	1.094.3621.01	1.097.3621.01
PG 36	PG 29	9	12,5	50	1.094.3629.01	1.097.3629.01
PG 42	PG 29	10	13,5	57	1.094.4229.01	1.097.4229.01
PG 42	PG 36	10	13,5	57	1.094.4236.01	1.097.4236.01
PG 48	PG 36	10	13,5	64	1.094.4836.01	1.097.4836.01
PG 48	PG 42	10	13,5	64	1.094.4842.01	1.097.4842.01

## Cable glands for hazardous areas

# Cable glands for hazardous areas



Cable glands for all popular threads, used in electrical equipment and hazardous areas in Group I, II and III applications. The Ex-d, Ex-e and/or Ex-ta certified cable glands have been designed for all explosion proof areas which are in need of high standards, reliability, strain relief and water proof requirements, e.g. marine, offshore, gas conveying machinery, refineries and chemical industry.



### You can find in this chapter

- **EXIOS<sup>+</sup>STANDARD** the innovative HUMMEL high-end cable gland for armoured cables in hazardous areas including the latest IECEx and ATEX certifications, for the use in Ex-e, Ex-d and Ex-ta areas.
- **EXIOS<sup>+</sup>BARRIER** High-end cable gland for armoured cables in hazardous areas uses a barrier compound sealing. Including the latest IECEx and ATEX certifications, for the use in Ex-e, Ex-d and Ex-ta areas.
- **EXIOS<sup>+</sup>A2F** for non-armoured cables for the use in Ex-e and Ex-d areas
- Accessories:
  - Thread Seal Ring
  - Plugs
  - Earthtags
  - Serrated Washer

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

### Contact us:

E-Mail: [sales@mdmetric.com](mailto:sales@mdmetric.com)