

HUMMEL products are available from MARYLAND METRICS

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Setting Standards

## Miscellaneous Strain Relief Fittings

Miscellaneous strain relief products made of nickel plated brass or nylon 6/6 for general applications and cable diameters of up to 90 mm (3-1/2").

**SE/ZSE**

Nickel plated brass grounding strain relief fittings with flex protection

**Z**

Strain relief fittings with flex protection

**WADI-A**

Nickel plated brass strain relief fittings for cable diameters of up to 90 mm (3-1/2")

**WADI-A-FPM**

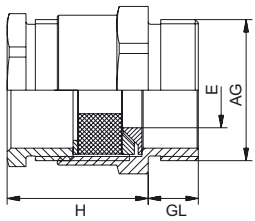
Nickel plated brass strain relief fittings for high temperature applications

**DIN 46320**

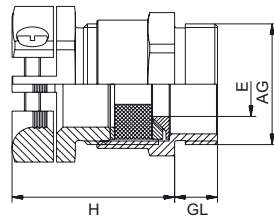
Nylon 6/6 or nickel plated brass strain relief fittings



Type SE



Type ZSE



Material  
Seal ring  
Protection

Nickel plated brass  
Buna-N  
IP 54



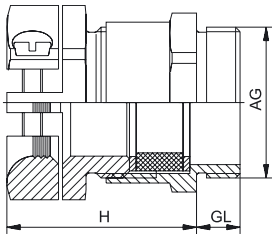
Type SE

AG	GL mm	H mm			E mm	Number
PG 9	7	17	17/15	4 - 10	6	1.680.0906.01
PG 11	7	20	20/18	6,5 - 12	8	1.680.1108.01
PG 13,5	8	21	22/20	6,5 - 13,5	10	1.680.1310.01
PG 13,5	8	21	22/20	6,5 - 13,5	12	1.680.1312.01
PG 16	8	24	24/22	6,5 - 16	12	1.680.1612.01
PG 16	8	24	24/22	6,5 - 16	14	1.680.1614.01
PG 21	10	27	30/28	9 - 20	15	1.680.2115.01
PG 21	10	27	30/28	9 - 20	18	1.680.2118.01
PG 29	10	30	40/37	17 - 28	20	1.680.2920.01
PG 29	10	30	40/37	17 - 28	24	1.680.2924.01

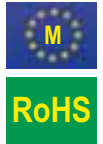
Type ZSE

AG	GL mm	H mm			E mm	Number
PG 9	7	27	17/19	6,5 - 10	6	1.681.0906.01
PG 11	7	29	20/22	7,5 - 12	7	1.681.1107.01
PG 11	7	29	20/22	7,5 - 12	8	1.681.1108.01
PG 13,5	8	30	22/24	8,5 - 13,5	10	1.681.1310.01
PG 13,5	8	30	22/24	8,5 - 13,5	12	1.681.1312.01
PG 16	8	31	24/26	10,5 - 16	12	1.681.1612.01
PG 16	8	31	24/26	10,5 - 16	14	1.681.1614.01
PG 21	10	36	30/33	13 - 20	15	1.681.2115.01
PG 21	10	36	30/33	13 - 20	18	1.681.2118.01
PG 29	10	40	40/42	19 - 28	20	1.681.2920.01
PG 29	10	40	40/42	19 - 28	24	1.681.2924.01





Material Nickel plated brass  
 Seal ring DIN 46320-6 Soft rubber / Buna-N  
**or**  
 Seal ring DIN 46320-7 (multiperforated) Buna-N  
 Protection IP 54 (NEMA 2), with thread seal ring IP 65 (NEMA 4x)  
 Operating Temperature -20°C – 60°C (-4°F – 140°F) / -20°C – 80°C (-4°F – 176°F) (Buna-N)



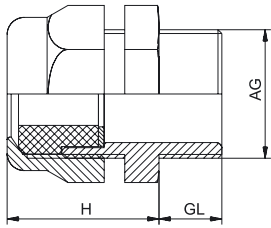
### With seal ring DIN 46320-6

AG	GL mm	H mm			Number Soft rubber	Number Buna-N
M 12 x 1,5	5	22	14/16	6-8	1.105.1200.50	1.105.1200.51
M 16 x 1,5	5	25	18/19	8-10	1.105.1600.50	1.105.1600.51
M 20 x 1,5	6	26	22/22	10-12	1.105.2000.50	1.105.2000.51
M 20 x 1,5	6	27,5	22/24	12-14	1.105.2013.50	1.105.2013.51
M 20 x 1,5	6	28,5	24/26	13-15	1.105.2016.50	1.105.2016.51
M 25 x 1,5	6	33	30/33	17-19	1.105.2500.50	1.105.2500.51
M 32 x 1,5	6	36	39/42	26-27	1.105.3200.50	1.105.3200.51
M 40 x 1,5	7	41	50/52	33-35	1.105.4000.50	1.105.4000.51
M 50 x 1,5	8	45	57/59	39-41	1.105.5000.50	1.105.5000.51
M 63 x 1,5	9	48	66/64	43-45	1.105.6300.50	1.105.6300.51
PG 7	5	22	14/16	6-8	1.105.0700.01	1.105.0703.01
PG 9	6	25	17/19	8-10	1.105.0900.01	1.105.0903.01
PG 11	6	26	20/22	10-12	1.105.1100.01	1.105.1103.01
PG 13,5	6,5	27,5	22/24	12-14	1.105.1300.01	1.105.1303.01
PG 16	6,5	28,5	24/26	14-16	1.105.1600.01	1.105.1603.01
PG 21	7	33	30/33	17-19	1.105.2100.01	1.105.2103.01
PG 29	8	36	40/42	26-28	1.105.2900.01	1.105.2903.01
PG 36	9	41	50/52	33-35	1.105.3600.01	1.105.3603.01
PG 42	10	45	57/59	39-41	1.105.4200.01	1.105.4203.01
PG 48	10	48	64/64	43-45	1.105.4800.01	1.105.4803.01

### With multiperforated seal ring DIN 46320-7 Buna-N

AG	GL mm	H mm			Number Buna-N
M 16 x 1,5	5	25	18/19	6,5-10	1.105.1600.52
M 20 x 1,5	6	26	22/22	7,5-12	1.105.2000.52
M 20 x 1,5	6	27,5	22/24	8,5-13,5	1.105.2013.52
M 20 x 1,5	6	28,5	24/26	10,5-15	1.105.2016.52
M 25 x 1,5	6	33	30/33	13-20	1.105.2500.52
M 32 x 1,5	6	36	39/42	19-28	1.105.3200.52
M 40 x 1,5	7	41	50/52	24-34	1.105.4000.52
M 50 x 1,5	8	45	57/59	34-40	1.105.5000.52
M 63 x 1,5	9	48	66/64	39-46	1.105.6300.52
PG 9	6	25	17/19	6,5-10	1.105.0901.01
PG 11	6	26	20/22	7,5-12	1.105.1101.01
PG 13,5	6,5	27,5	22/24	8,5-13,5	1.105.1301.01
PG 16	6,5	28,5	24/26	10,5-16	1.105.1601.01
PG 21	7	33	30/33	13-20	1.105.2101.01
PG 29	8	36	40/42	19-28	1.105.2901.01
PG 36	9	41	50/52	24-34	1.105.3601.01
PG 42	10	45	57/59	34-40	1.105.4201.01
PG 48	10	48	64/64	39-46	1.105.4801.01





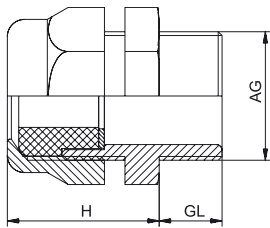
Material Nickel plated brass  
 Seal ring Buna-N  
 O-Ring Buna-N  
 Protection IP 66  
 Operating Temperature -20 °C – 100 °C (-4 °F – 212 °F)  
 short time exposure 130 °C (266 °F)



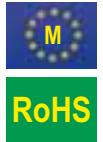
\* Two piece sealing insert

AG	GL mm	H mm			Number		Number		Number
			mm	mm		mm		mm	
M 12 x 1,5	5	16	14	4 - 6	1.106.1201.50				
M 16 x 1,5	5	18	18	4 - 9	1.106.1601.50				
M 20 x 1,5	6	22	22	7 - 13	1.106.2001.50				
M 25 x 1,5	7	23	28	10 - 18	1.106.2501.50				
M 32 x 1,5	8	26	35	20 - 24	1.106.3201.50				
PG 7	6	16	14	2 - 3	1.106.0701.01	4 - 6,5	1.106.0700.01	6,5 - 8	1.106.0702.01
PG 9	6	18	17	4 - 5	1.106.0904.01	5 - 7	1.106.0900.01	7 - 10	1.106.0902.01
PG 11	6	18	20	5 - 7	1.106.1101.01	7 - 10	1.106.1103.01	8 - 12	1.106.1100.01
PG 13,5	6	21	24	7 - 10	1.106.1303.01	9 - 12	1.106.1300.01	11 - 15	1.106.1304.01
PG 16	6	21	24	7 - 10	1.106.1603.01	9 - 12	1.106.1600.01	11 - 15	1.106.1604.01
PG 21	7,5	22,5	32	14 - 17	1.106.2102.01	16 - 20,5	1.106.2103.01	19 - 22	1.106.2101.01
PG 29	8	24	40	19 - 22,5	1.106.2901.01	20 - 26	1.106.2902.01		
PG 29	8	24	40	22 - 28	1.106.2903.01	26 - 32	1.106.2904.01		
PG 11 *	6	18	20	5 - 12	1.106.1104.01				
PG 11 *	6	21	24	8 - 15	1.106.1105.01				
PG 13,5 *	6	21	24	8 - 15	1.106.1301.01				
PG 16 *	6	21	24	8 - 15	1.106.1601.01				
PG 21 *	7,5	22,5	32	11 - 20,5	1.106.2100.01				
PG 29 *	8	24	40	18 - 26	1.106.2900.01				
PG 36 *	8	29	50	25 - 35	1.106.3600.01				
PG 42 *	10	30	58	35 - 45	1.106.4200.01				
PG 48 *	11	33	64	38 - 49	1.106.4800.01				





Material Nickel plated brass  
 Seal FPM (multi-perforated)  
 O-Ring FPM  
 Protection IP 68  
 Operating Temperature -25 °C – 200 °C (-13 °F – 209 °F)



\* Two piece sealing insert

**Metric threads available. Call for lead time**

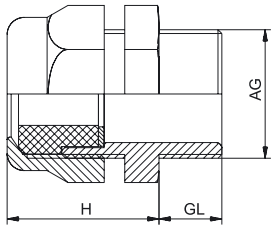
AG	GL mm	H mm			Number
M 12 x 1,5	5	18	14	4 - 6	1.106.1200.58
M 16 x 1,5	5	19	18	7 - 9	1.106.1600.58
M 20 x 1,5	6	21	22	10 - 13	1.106.2000.58
M 25 x 1,5	7	23	28	15 - 18	1.106.2500.58
M 32 x 1,5	8	26	35	20 - 24	1.106.3200.58
M 40 x 1,5	8	27	45	27 - 32	1.106.4000.58
M 50 x 1,5	8	28	55	35 - 40	1.106.5000.58
M 63 x 1,5	10	36	70	45 - 52	1.106.6300.58

AG	GL mm	H mm			Number
PG 7	6	16	14	5 - 7	1.106.0700.80
PG 9	6	18	17	6 - 8	1.106.0900.80
PG 9	6	18	17	7 - 10	1.106.0901.80
PG 11	6	18	20	6 - 8	1.106.1100.80
PG 11	6	18	20	7 - 10	1.106.1101.80
PG 11	6	18	20	8 - 12	1.106.1102.80
PG 13,5	6	21	24	11 - 15	1.106.1300.80
PG 16	6	21	24	11 - 15	1.106.1600.80
PG 21	7,5	22,5	32	15 - 20,5	1.106.2100.80
PG 29	8	24	40	20 - 26	1.106.2900.80
PG 36	8	29	50	30 - 35	1.106.3600.80
PG 42	10	31	58	40 - 45	1.106.4200.80
PG 48	11	33	64	42 - 49	1.106.4800.80

M 16 x 1,5 *	5	19	18	4 - 9	1.106.1601.58
M 20 x 1,5 *	6	21	22	7 - 13	1.106.2001.58
M 25 x 1,5 *	7	23	28	10 - 18	1.106.2501.58
M 32 x 1,5 *	8	26	35	16 - 24	1.106.3201.58
M 40 x 1,5 *	8	27	45	22 - 32	1.106.4001.58
M 50 x 1,5 *	8	28	55	30 - 40	1.106.5001.58
M 63 x 1,5 *	10	36	70	38 - 52	1.106.6301.58

PG 11 *	6	18	20	5 - 12	1.106.1103.80
PG 11 *	6	21	24	8 - 15	1.106.1104.80
PG 13,5 *	6	21	24	8 - 15	1.106.1301.80
PG 16 *	6	21	24	8 - 15	1.106.1601.80
PG 21 *	7,5	22,5	32	11 - 20,5	1.106.2101.80
PG 29 *	8	24	40	18 - 26	1.106.2901.80
PG 36 *	8	29	50	25 - 35	1.106.3601.80
PG 42 *	10	30	58	35 - 45	1.106.4201.80
PG 48 *	11	33	64	34 - 49	1.106.4801.80







Material Nickel plated brass  
 Seal Buna-N  
 Protection IP 68  
 Operating Temperature -20 °C – 100 °C (-4 °F – 212 °F)



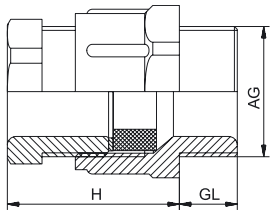
**Lock nut GR**  
 Material Nickel plated brass

AG	GL mm	H mm	 mm	 mm	Number
G 2 1/2"	18	55	90	48 - 55	1.106.5200.01
G 2 1/2"	18	55	90	53 - 60	1.106.5201.01
G 3"	18	55	100	58 - 65	1.106.3000.01
G 3"	18	55	105	63 - 70	1.106.3001.01
G 4"	22	65	125	68 - 75	1.106.4000.01
G 4"	22	65	125	73 - 80	1.106.4001.01
G 4"	22	65	125	78 - 85	1.106.4002.01
G 4"	22	65	130	83 - 90	1.106.4003.01
<b>Lock nut GR</b>					
G 2 1/2"		7	80		1.106.5200.99
G 3"		8	95		1.106.3000.99
G 4"		11	125		1.106.4000.99



# DIN 46320-A-FS

PG



Material SB / PA (Nylon)  
 Seal ring Nr. 6 Soft rubber / Buna-N  
**or**  
 Seal ring Nr. 7 (multiperforated) Soft rubber / Buna-N  
 Protection IP 54, with thread seal ring IP 65  
 Operating Temperature -20 °C – 60 °C (-4 °F – 140 °F) /  
 -20 °C – 80 °C (-4 °F – 176 °F) (Buna-N)  
 Colors grey RAL 7035



**With seal ring Nr. 6**

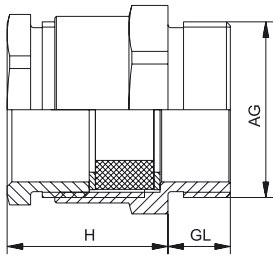
AG	GL mm	H mm			Number SB	Number PA
PG 7	8	20	15/13	3,5 - 6	1.201.0700.10	1.202.0700.11
PG 9	8	21	19/16	4,5 - 7	1.201.0900.10	1.202.0900.11
PG 11	8	22	22/19	6 - 9	1.201.1100.10	1.202.1100.11
PG 13,5	9	26	24/21	9 - 12	1.201.1300.10	1.202.1300.11
PG 16	10	28	27/23	11 - 14	1.201.1600.10	1.202.1600.11
PG 21	11	32	33/30	14 - 18	1.201.2100.10	1.202.2100.11
PG 29	11	35	42/40	18 - 25	1.201.2900.10	1.202.2900.11
PG 36	13	39	53/50	25 - 32	1.201.3600.10	1.202.3600.11
PG 42	13	44	60/55	30 - 38	1.201.4200.10	1.202.4200.11
PG 48	14	44	65/60	34 - 42	1.201.4800.10	1.202.4800.11

**Metric threads available upon request**

**With multiperforated seal ring Nr. 7**

AG	GL mm	H mm			Number SB	Number PA
PG 9	8	21	19/16	4 - 10	1.201.0902.10	1.202.0901.11
PG 11	8	22	22/19	6,5 - 12	1.201.1102.10	1.202.1101.11
PG 13,5	9	26	24/21	6,5 - 13,5	1.201.1302.10	1.202.1301.11
PG 16	10	28	27/23	6,5 - 16	1.201.1602.10	1.202.1601.11
PG 21	11	32	33/30	9 - 20	1.201.2102.10	1.202.2101.11
PG 29	11	35	42/40	17 - 28	1.201.2902.10	1.202.2901.11
PG 36	13	39	53/50	23 - 34	1.201.3602.10	1.202.3601.11
PG 42	13	44	60/55	29 - 40	1.201.4202.10	1.202.4201.11
PG 48	14	44	65/60	35 - 46	1.201.4802.10	1.202.4801.11





Material Nickel plated brass  
 Seal ring Nr. 6 Soft rubber  
**or**  
 Seal ring Nr. 7 Buna-N (multi-perforated)  
 Protection IP 54, with thread seal ring IP 65  
 Operating Temperature -20 °C – 60 °C (-4 °F – 140 °F) (SBR)  
 -20 °C – 80 °C (-4 °F – 176 °F) (Buna-N)



**Elongated thread available**  
**Metric threads available upon request**

**With seal ring Nr. 6**

AG	GL mm	H mm			Number SBR	Number NBR
PG 7	5	15	14/13	6 - 8	1.101.0700.01	1.101.0703.01
PG 9	6	15	17/15	8 - 10	1.101.0900.01	1.101.0903.01
PG 11	6	17	20/18	10 - 12	1.101.1100.01	1.101.1103.01
PG 13,5	6,5	20	22/20	12 - 14	1.101.1300.01	1.101.1303.01
PG 16	6,5	22	24/22	14 - 16	1.101.1600.01	1.101.1603.01
PG 21	7	24	30/28	17 - 19	1.101.2100.01	1.101.2103.01
PG 29	8	26	40/37	18 - 25	1.101.2900.01	1.101.2903.01
PG 36	9	30	50/47	33 - 35	1.101.3600.01	1.101.3603.01
PG 42	10	34	57/54	39 - 41	1.101.4200.01	1.101.4203.01
PG 48	10	37	64/60	45 - 47	1.101.4800.01	1.101.4803.01

**With multi-perforated seal ring Nr. 7**

AG	GL mm	H mm			Number Buna-N
PG 9	6	15	17/15	4 - 10	1.101.0901.01
PG 11	6	17	20/18	6,5 - 12	1.101.1101.01
PG 13,5	6,5	20	22/20	6,5 - 13,5	1.101.1301.01
PG 16	6,5	22	24/22	6,5 - 16	1.101.1601.01
PG 21	7	24	30/28	9 - 20	1.101.2101.01
PG 29	8	26	40/37	17 - 28	1.101.2901.01
PG 36	9	30	50/47	23 - 34	1.101.3601.01
PG 42	10	34	57/54	29 - 40	1.101.4201.01
PG 48	10	37	64/60	35 - 46	1.101.4801.01

