

Kapitel 1



Kabelförskruvningar – Mässing

Cable glands – brass

cable glands compression / cable glands lamellas





Progress-Flat

Material Druckmutter:	Messing vernickelt	Material Compression nut:	brass, nickel-plated
Material Unterteil:	Messing vernickelt	Material Lower part:	brass, nickel-plated
Dichtung:	TPE	Sealing insert:	TPE
Dichtring:	FPM	Sealing washer:	FPM
Zugentlastung:	nach EN 50262, Ausf. A	Strain relief:	acc. to EN 50262, version A
Einsatztemperatur:	-40°C bis 100°C	Temperature range:	-40°C to 100°C
Schutzart:	IP 68 (bis 10 bar)	Protection type:	IP 68 (up to 10 bar)
Schutzart Zusatz:	IP 69	Protection type supplement:	IP 69
Wandstärke:	max. 5 mm	Wall tickness:	max. 5 mm

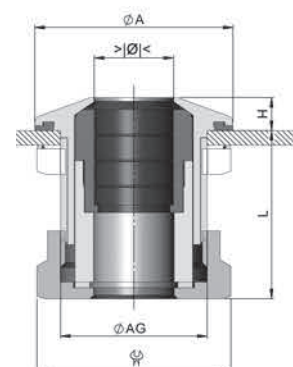


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Gewinde Entry Thread AG			∅ A mm	H mm	L	HUGRO No.
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Dichteinsatz nicht durchgehend isoliert / Sealing insert not overall

M 16 x 1,5	5 - 6,5	19	22	4	21	100.1706.00
M 16 x 1,5	6,5 - 8	19	22	4	21	100.1708.00
M 20 x 1,5	6 - 8	24	27	4,5	23	100.2008.00
M 20 x 1,5	8 - 10,5	24	27	4,5	23	100.2010.00
M 25 x 1,5	8 - 11	30	32	5,5	25	100.2511.00
M 25 x 1,5	11 - 15	30	32	5,5	25	100.2515.00
M 32 x 1,5	12,5 - 16	36	39	6	28	100.3216.00
M 32 x 1,5	16 - 20,5	36	39	6	28	100.3220.00



Progress-M

Material: Messing vernickelt
 Dichteinsatz: TPE
 O-Ring: NBR
 Zugentlastung: nach EN 62444, Ausf. A
 Einsatztemperatur: -40°C bis 100°C
 Schutzart: IP 68 (bis 10 bar) / IP 69
 NEMA Type rating: 4X

Material: brass, nickel-plated
 Sealing insert: TPE
 O-ring: NBR
 Strain relief: acc. to EN 62444, version A
 Temperature range: -40°C to 100°C
 Protection type: IP 68 (up to 10 bar) / IP 69
 NEMA Type rating: 4X



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Weitere internationale Zulassungen vorhanden

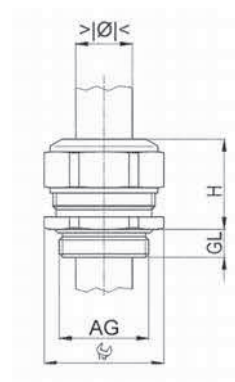
Further international approvals available



Gewinde Entry Thread AG			H mm	Gew. kurz / Thread short		Gew. lang / Thread long	
				GL mm	HUGRO No.	GL mm	HUGRO No.

kurzer, einteiliger Dichteinsatz / short, one-piece sealing insert							
M 6 x 1	2 - 2,5	8	12	5	101.0602.00	8	101.0602.20
M 6 x 1	2,5 - 3	8	12	5	101.0603.00	8	101.0603.20
M 6 x 1	3 - 3,5	8	12	5	101.0604.00	8	101.0604.20
M 8 x 1,25	2,5 - 3,5	11	14	5	101.0803.00	10	101.0803.20
M 8 x 1,25	3,5 - 5	11	14	5	101.0805.00	10	101.0805.20
M 10 x 1,5	3 - 4	13	15	5	101.1004.00	10	101.1004.20
M 10 x 1,5	4 - 6	13	15	5	101.1006.00	10	101.1006.20
M 12 x 1,5	3,5 - 5	15	17	5	101.1505.00	10	101.1505.20
M 12 x 1,5	5 - 6,5	15	17	5	101.1506.00	10	101.1506.20
M 12 x 1,5	6,5 - 8	15	17	5	101.1508.00	10	101.1508.20
M 16 x 1,5	3,5 - 4,5	18	20	5	101.1704.00	10	101.1704.20
M 16 x 1,5	4,5 - 6	18	20	5	101.1706.00	10	101.1706.20
M 16 x 1,5	6 - 8	18	20	5	101.1708.00	10	101.1708.20
M 16 x 1,5	8 - 10,5	18	22	5	101.1710.00	10	101.1710.20
M 20 x 1,5	6 - 8	24	21	6	101.2008.00	10	101.2008.20
M 20 x 1,5	8 - 11	24	21	6	101.2011.00	10	101.2011.20
M 20 x 1,5	11 - 15	24	23	6	101.2015.00	10	101.2015.20
M 25 x 1,5	9,5 - 12,5	30	25	7	101.2512.00	11	101.2512.20
M 25 x 1,5	12,5 - 16	30	25	7	101.2516.00	11	101.2516.20
M 25 x 1,5	16 - 20,5	30	28	7	101.2520.00	11	101.2520.20
M 32 x 1,5	14 - 17	36	28	8	101.3217.00	13	101.3217.20
M 32 x 1,5	17 - 21	36	28	8	101.3221.00	13	101.3221.20
M 32 x 1,5	21 - 25,5	36	28	8	101.3225.00	13	101.3225.20
M 40 x 1,5	20 - 24	46	31	8	101.4024.00	13	101.4024.20
M 40 x 1,5	24 - 28,5	46	31	8	101.4028.00	13	101.4028.20
M 40 x 1,5	28,5 - 33	46	31	8	101.4033.00	13	101.4033.20
M 50 x 1,5	29 - 33	55	34	9	101.5033.00	14	101.5033.20
M 50 x 1,5	33 - 37	55	34	9	101.5037.00	14	101.5037.20
M 50 x 1,5	37 - 42	55	34	9	101.5042.00	14	101.5042.20
M 63 x 1,5	35 - 40	70	37	10	101.6340.00	14	101.6340.20
M 63 x 1,5	40 - 46	70	37	10	101.6346.00	14	101.6346.20
M 63 x 1,5	46 - 52	70	37	10	101.6352.00	14	101.6352.20
M 75 x 1,5	45 - 50	80	38	11	101.7450.00	15	101.7450.20
M 75 x 1,5	50 - 56	80	38	11	101.7456.00	15	101.7456.20
M 75 x 1,5	56 - 63	80	38	11	101.7463.00	15	101.7463.20
M 85 x 2	63 - 70	95	41	18	101.8F70.00		
M 95 x 2	68 - 75	110	51	20	101.9C75.00		
M 95 x 2	73 - 80	110	51	20	101.9C80.00		
M 100 x 3	78 - 85	115	51	22	101.9L85.00		
M 105 x 3	83 - 90	120	52	22	101.9N90.00		
M 115 x 3	88 - 95	125	52	22	101.9P95.00		

kurzer, zweiteiliger Dichteinsatz / short, two-piece sealing insert							
M 16 x 1,5	6 - 10,5	18	22	5	101.1702.00	10	101.1702.20
M 20 x 1,5	8 - 15	24	23	6	101.2002.00	10	101.2002.20
M 25 x 1,5	12,5 - 20,5	30	28	7	101.2502.00	11	101.2502.20
M 32 x 1,5	17 - 25,5	36	28	8	101.3202.00	13	101.3202.20
M 40 x 1,5	24 - 33	46	31	8	101.4002.00	13	101.4002.20
M 50 x 1,5	33 - 42	55	34	9	101.5002.00	14	101.5002.20
M 63 x 1,5	40 - 52	70	37	10	101.6302.00	14	101.6302.20
M 75 x 1,5	50 - 63	80	38	11	101.7402.00	15	101.7402.20



Progress-M (Pg)

Material: Messing vernickelt
 Dichteinsatz: TPE
 O-Ring: NBR
 Einsatztemperatur: -40°C bis 100°C
 Schutzart: IP 68 (bis 10 bar) / IP 69
 NEMA Type rating: 4X

Material: brass, nickel-plated
 Sealing insert: TPE
 O-ring: NBR
 Temperature range: -40°C to 100°C
 Protection type: IP 68 (up to 10 bar) / IP 69
 NEMA Type rating: 4X



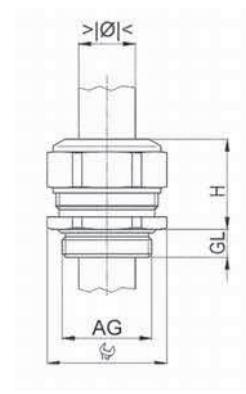
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Weitere internationale Zulassungen vorhanden

Further international approvals available



Gewinde Entry Thread AG			H mm	Gew. kurz / Thread short		Gew. lang / Thread long	
				GL mm	HUGRO No.	GL mm	HUGRO No.
kurzer, einteiliger Dichteinsatz / short, one-piece sealing insert							
Pg 7	3,5 - 5	15	17	6	101.0705.00	10	101.0705.20
Pg 7	5 - 6,5	15	17	6	101.0706.00	10	101.0706.20
Pg 7	6,5 - 8	15	17	6	101.0708.00	10	101.0708.20
Pg 9	3,5 - 4,5	18	20	6	101.0904.00	10	101.0904.20
Pg 9	4,5 - 6	18	20	6	101.0906.00	10	101.0906.20
Pg 9	6 - 8	18	20	6	101.0908.00	10	101.0908.20
Pg 9	8 - 10,5	18	22	6	101.0910.00	10	101.0910.20
Pg 11	4 - 5,5	21	21	6	101.1105.00	10	101.1105.20
Pg 11	5,5 - 8,5	21	21	6	101.1108.00	10	101.1108.20
Pg 11	8,5 - 12	21	21	6	101.1112.00	10	101.1112.20
Pg 13,5	6 - 8	24	21	6	101.1308.00	10	101.1308.20
Pg 13,5	8 - 11	24	21	6	101.1311.00	10	101.1311.20
Pg 13,5	11 - 15	24	23	6	101.1315.00	10	101.1315.20
Pg 16	6 - 8	24	23	6	101.1608.00	10	101.1608.20
Pg 16	8 - 11	24	23	6	101.1611.00	10	101.1611.20
Pg 16	11 - 15	24	23	6	101.1615.00	10	101.1615.20
Pg 21	9,5 - 12,5	30	28	7,5	101.2112.00	12	101.2112.20
Pg 21	12,5 - 16	30	28	7,5	101.2116.00	12	101.2116.20
Pg 21	16 - 20,5	30	28	7,5	101.2120.00	12	101.2120.20
Pg 29	16 - 19	38	28	8	101.2919.00	12	101.2919.20
Pg 29	19 - 23	38	28	8	101.2923.00	12	101.2923.20
Pg 29	23 - 27,5	38	28	8	101.2927.00	12	101.2927.20
Pg 36	21,5 - 26	50	32	8	101.3626.00	15	101.3626.20
Pg 36	26 - 30,5	50	32	8	101.3630.00	15	101.3630.20
Pg 36	30,5 - 35	50	32	8	101.3635.00	15	101.3635.20
Pg 42	29 - 33	55	34	10	101.4233.00	15	101.4233.20
Pg 42	33 - 37	55	34	10	101.4237.00	15	101.4237.20
Pg 42	37 - 42	55	34	10	101.4242.00	15	101.4242.20
Pg 48	32 - 37	65	37	11	101.4837.00	15	101.4837.20
Pg 48	37 - 43	65	37	11	101.4843.00	15	101.4843.20
Pg 48	43 - 49	65	37	11	101.4849.00	15	101.4849.20
kurzer, zweiteiliger Dichteinsatz / short, two-piece sealing insert							
Pg 9	6 - 10,5	18	22	6	101.0902.00	10	101.0902.20
Pg 11	5,5 - 12	21	21	6	101.1102.00	10	101.1102.20
Pg 13,5	8 - 15	24	23	6	101.1302.00	10	101.1302.20
Pg 16	8 - 15	24	23	6	101.1602.00	10	101.1602.20
Pg 21	12,5 - 20,5	30	28	7,5	101.2102.00	12	101.2102.20
Pg 29	19 - 27,5	38	28	8	101.2902.00	12	101.2902.20
Pg 36	26 - 35	50	32	8	101.3602.00	15	101.3602.20
Pg 42	33 - 42	55	34	10	101.4202.00	15	101.4202.20
Pg 48	37 - 49	65	37	11	101.4802.00	15	101.4802.20



Progress-M (NPT)

Material: Messing vernickelt
 Dichteinsatz: TPE
 Einsatztemperatur: -40°C bis 100°C
 Schutzart: IP 68 (bis 10 bar) / IP 69
 NEMA Type rating: 4X

Material: brass, nickel-plated
 Sealing insert: TPE
 Temperature range: -40°C to 100°C
 Protection type: IP 68 (up to 10 bar) / IP 69
 NEMA Type rating: 4X





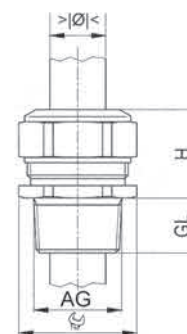
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Weitere internationale Zulassungen vorhanden

Further international approvals available



Gewinde Entry Thread AG			H mm	GL mm	HUGRO No.
kurzer, einteiliger Dichteinsatz / short, one-piece sealing insert					
1/8" NPT	3 - 4	13	15	8	101.0304.00
1/8" NPT	4 - 6	13	15	8	101.0306.00
1/4" NPT	3,5 - 5	15	17	12	101.0405.00
1/4" NPT	5 - 6,5	15	17	12	101.0406.00
1/4" NPT	6,5 - 8	15	17	12	101.0408.00
3/8" NPT	3,5 - 4,5	18	20	12	101.3904.00
3/8" NPT	4,5 - 6	18	20	12	101.3906.00
3/8" NPT	6 - 8	18	20	12	101.3908.00
3/8" NPT	8 - 10,5	18	22	12	101.3910.00
1/2" NPT	6 - 8	24	21	15	101.1908.00
1/2" NPT	8 - 11	24	21	15	101.1911.00
1/2" NPT	11 - 15	24	23	15	101.1915.00
3/4" NPT	9,5 - 12,5	30	28	15	101.3512.00
3/4" NPT	12,5 - 16	30	28	15	101.3516.00
3/4" NPT	16 - 20,5	30	28	15	101.3520.00
1" NPT	14 - 17	36	28	20	101.7517.00
1" NPT	17 - 21	36	28	20	101.7521.00
1" NPT	21 - 25,5	36	28	20	101.7525.00
1 1/4" NPT	20 - 24	46	31	20	101.7624.00
1 1/4" NPT	24 - 28,5	46	31	20	101.7628.00
1 1/4" NPT	28,5 - 33	46	31	20	101.7633.00
1 1/2" NPT	29 - 33	55	34	22	101.7733.00
1 1/2" NPT	33 - 37	55	34	22	101.7737.00
1 1/2" NPT	37 - 41	55	34	22	101.7741.00
2" NPT	35 - 40	70	37	22	101.7840.00
2" NPT	40 - 46	70	37	22	101.7846.00
2" NPT	46 - 52	70	37	22	101.7852.00
kurzer, zweiteiliger Dichteinsatz / short, two-piece sealing insert					
3/8" NPT	6 - 10,5	18	22	12	101.3902.00
1/2" NPT	8 - 15	24	23	15	101.1902.00
3/4" NPT	12,5 - 20,5	30	28	15	101.3502.00
1" NPT	17 - 25,5	36	28	20	101.7502.00
1 1/4" NPT	24 - 33	46	31	20	101.7602.00
1 1/2" NPT	33 - 41	55	34	22	101.7702.00
2" NPT	40 - 52	70	37	22	101.7802.00



Progress-M (Gas)

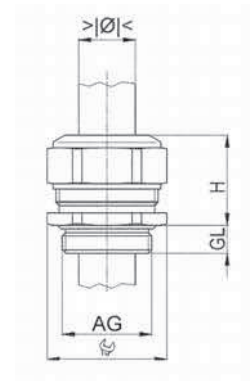
Material: Messing vernickelt
 Dichteinsatz: TPE
 O-Ring: NBR
 Einsatztemperatur: -40°C bis 100°C
 Schutzart: IP 68

Material: brass, nickel-plated
 Sealing insert: TPE
 O-ring: NBR
 Temperature range: -40°C to 100°C
 Protection type: IP 68



101.00

Gewinde Entry Thread AG			H mm	GL mm	HUGRO No.
kurzer, zweiteiliger Dichteinsatz / short, two-piece sealing insert					
G 3/8"	5,5 - 12	21	21	6	101.3802.00
G 1/2"	8 - 15	24	23	8	101.1202.00
G 3/4"	12,5 - 20,5	30	28	10	101.3402.00
G 1"	17 - 25,5	36	28	11	101.8502.00
G 1 1/2"	25 - 35	55/50	32	12	101.8902.00
G 2"	37 - 49	65	37	12	101.9102.00
kurzer, einteiliger Dichteinsatz / short, one-piece sealing insert					
G 2 1/2"	45 - 50	80	38	18	101.9350.00
G 2 1/2"	50 - 56	80	38	18	101.9356.00
G 3"	56 - 63	80	38	18	101.9563.00
G 3"	63 - 70	95	40	18	101.9570.00



Progress-M MultiLayer

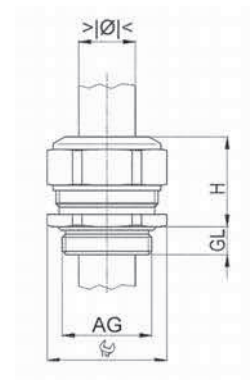
Material: Messing vernickelt
 Dichteinsatz: Spezial TPE hellgrau
 O-Ring: NBR
 Zugentlastung: nach EN 62444, Ausf. A
 Einsatztemperatur: -50 °C bis +105 °C
 Schutzart: IP 68 (bis 10 bar) / IP 69

Material: brass, nickel plated
 Clamping insert: special TPE light grey
 O-ring: NBR
 Strain relief: acc. to EN 62444, version A
 Temperature range: -50 °C to +105 °C
 Protection type: IP 68 (up to 10 bar) / IP 69



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101.20.F

Gewinde Entry Thread AG			H mm	Gew.kurz / Thread short GL mm	HUGRO No.	Gew. Lang / Thread long GL mm	HUGRO No.
M20x1,5	4-15	24	23	6	101.2004.00.F	10	101.2004.20.F
M25x1,5	6-20,5	30	28	7	101.2504.00.F	11	101.2504.20.F
M25x1,5	10-25,5	36	28	8	101.3204.00.F	13	101.3204.20.F



Progress-M

Material: Messing vernickelt
 Dichteinsatz: TPE
 O-Ring: NBR
 Zugentlastung: nach EN 62444, Ausf. A
 Einsatztemperatur: -40°C bis 100°C
 Schutzart: IP 68 (bis 10 bar) / IP 69
 NEMA Type rating: 4X

Material: brass, nickel-plated
 Sealing insert: TPE
 O-ring: NBR
 Strain relief: acc. to EN 62444, version A
 Temperature range: -40°C to 100°C
 Protection type: IP 68 (up to 10 bar) / IP 69
 NEMA Type rating: 4X



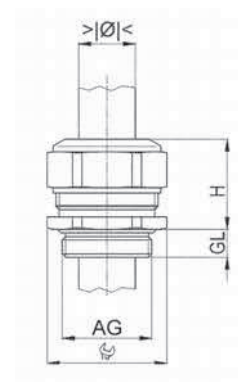
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Weitere internationale Zulassungen vorhanden

Further international approvals available



Gewinde Entry Thread AG			H mm	Gew. kurz / Thread short GL HUGRO No.		Gew. lang / Thread long GL HUGRO No.	
	mm	mm		mm		mm	
langer, einteiliger Dichteinsatz / long, one-piece sealing insert							
M 6 x 1	2 - 2,5	8	12	5	101.0602.01	8	101.0602.21
M 6 x 1	2,5 - 3	8	12	5	101.0603.01	8	101.0603.21
M 8 x 1,25	2,5 - 3	11	14	5	101.0803.01	10	101.0803.21
M 8 x 1,25	3 - 4	11	14	5	101.0804.01	10	101.0804.21
M 10 x 1,5	3 - 4	13	15	5	101.1004.01	10	101.1004.21
M 10 x 1,5	4 - 6	13	15	5	101.1006.01	10	101.1006.21
M 12 x 1,5	3,5 - 5	15	17	5	101.1505.01	10	101.1505.21
M 12 x 1,5	5 - 6,5	15	17	5	101.1506.01	10	101.1506.21
M 12 x 1,5	6,5 - 7,5	15	17	5	101.1508.01	10	101.1508.21
M 16 x 1,5	4,5 - 6	18	20	5	101.1706.01		
M 16 x 1,5	6 - 8	18	20	5	101.1708.01		
M 16 x 1,5	8 - 10,5	18	22	5	101.1710.01	10	101.1710.21
M 20 x 1,5	6 - 8	24	21	6	101.2008.01		
M 20 x 1,5	8 - 11	24	21	6	101.2011.01		
M 20 x 1,5	11 - 14,5	24	23	6	101.2015.01	10	101.2015.21
M 25 x 1,5	9,5 - 12,5	30	25	7	101.2512.01		
M 25 x 1,5	12,5 - 16	30	25	7	101.2516.01		
M 25 x 1,5	16 - 19	30	28	7	101.2519.01	11	101.2519.21
M 32 x 1,5	17 - 21	36	28	8	101.3221.01		
M 32 x 1,5	21 - 25,5	36	28	8	101.3225.01	13	101.3225.21
M 40 x 1,5	24 - 28,5	46	31	8	101.4028.01		
M 40 x 1,5	28,5 - 33	46	31	8	101.4033.01	13	101.4033.21
M 50 x 1,5	33 - 37	55	34	9	101.5037.01		
M 50 x 1,5	37 - 42	55	34	9	101.5042.01	14	101.5042.21
M 63 x 1,5	40 - 46	70	37	10	101.6346.01		
M 63 x 1,5	46 - 52	70	37	10	101.6352.01	14	101.6352.21
M 75 x 1,5	50 - 56	80	38	11	101.7456.01		
M 75 x 1,5	56 - 63	80	38	11	101.7463.01	15	101.7463.21
langer, zweiteiliger Dichteinsatz / long, two-piece sealing insert							
M 16 x 1,5	6 - 10,5	18	22	5	101.1702.01	10	101.1702.21
M 20 x 1,5	8 - 14,5	24	23	6	101.2002.01	10	101.2002.21
M 25 x 1,5	12,5 - 19	30	28	7	101.2502.01	11	101.2502.21
M 32 x 1,5	17 - 25,5	36	28	8	101.3202.01	13	101.3202.21
M 40 x 1,5	24 - 33	46	31	8	101.4002.01	13	101.4002.21
M 50 x 1,5	33 - 42	55	34	9	101.5002.01	14	101.5002.21
M 63 x 1,5	40 - 52	70	37	10	101.6302.01	14	101.6302.21
M 75 x 1,5	50 - 63	80	38	11	101.7402.01	15	101.7402.21



Progress-M (Pg)

Material: Messing vernickelt
 Dichteinsatz: TPE
 O-Ring: NBR
 Einsatztemperatur: -40°C bis 100°C
 Schutzart: IP 68 (bis 10 bar) / IP 69
 NEMA Type rating: 4X

Material: brass, nickel-plated
 Sealing insert: TPE
 O-ring: NBR
 Temperature range: -40°C to 100°C
 Protection type: IP 68 (up to 10 bar) / IP 69
 NEMA Type rating: 4X



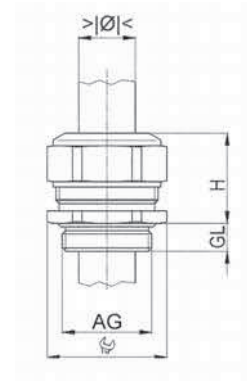
101.01
101.21

Weitere internationale Zulassungen vorhanden

Further international approvals available



Gewinde Entry Thread AG			H mm	Gew. kurz / Thread short		Gew. lang / Thread long	
				GL mm	HUGRO No.	GL mm	HUGRO No.
langer, einteiliger Dichteinsatz / long, one-piece sealing insert							
Pg 7	3,5 - 5	15	17	6	101.0705.01		
Pg 7	5 - 6,5	15	17	6	101.0706.01	10	101.0706.21
Pg 7	6,5 - 7,5	15	17	6	101.0708.01	10	101.0708.21
Pg 9	4,5 - 6	18	20	6	101.0906.01		
Pg 9	6 - 8	18	20	6	101.0908.01		
Pg 9	8 - 10,5	18	22	6	101.0910.01	10	101.0910.21
Pg 11	4 - 5,5	21	21	6	101.1105.01		
Pg 11	5,5 - 8,5	21	21	6	101.1108.01		
Pg 11	8,5 - 12	21	21	6	101.1112.01	10	101.1112.21
Pg 13,5	6 - 8	24	21	6	101.1308.01		
Pg 13,5	8 - 11	24	21	6	101.1311.01		
Pg 13,5	11 - 14,5	24	23	6	101.1315.01	10	101.1315.21
Pg 16	6 - 8	24	23	6	101.1608.01		
Pg 16	8 - 11	24	23	6	101.1611.01		
Pg 16	11 - 14,5	24	23	6	101.1615.01	10	101.1615.21
Pg 21	9,5 - 12,5	30	28	7,5	101.2112.01		
Pg 21	12,5 - 16	30	28	7,5	101.2116.01		
Pg 21	16 - 19	30	28	7,5	101.2119.01	12	101.2119.21
Pg 29	19 - 23	38	28	8	101.2923.01		
Pg 29	23 - 27,5	38	28	8	101.2927.01	12	101.2927.21
Pg 36	26 - 30,5	50	32	8	101.3630.01		
Pg 36	30,5 - 35	50	32	8	101.3635.01	15	101.3635.21
Pg 42	33 - 37	55	34	10	101.4237.01		
Pg 42	37 - 42	55	34	10	101.4242.01	15	101.4242.21
Pg 48	37 - 43	65	37	11	101.4843.01		
Pg 48	43 - 49	65	37	11	101.4849.01	15	101.4849.21
langer, zweiteiliger Dichteinsatz / long, two-piece sealing insert							
Pg 9	6 - 10,5	18	22	6	101.0902.01	10	101.0902.21
Pg 11	5,5 - 12	21	21	6	101.1102.01	10	101.1102.21
Pg 13,5	8 - 14,5	24	23	6	101.1302.01	10	101.1302.21
Pg 16	8 - 14,5	24	23	6	101.1602.01	10	101.1602.21
Pg 21	12,5 - 19	30	28	7,5	101.2102.01	12	101.2102.21
Pg 29	19 - 27,5	38	28	8	101.2902.01	12	101.2902.21
Pg 36	26 - 35	50	32	8	101.3602.01	15	101.3602.21
Pg 42	33 - 42	55	34	10	101.4202.01	15	101.4202.21
Pg 48	37 - 49	65	37	11	101.4802.01	15	101.4802.21



Progress-M/HT

Material: Messing vernickelt
Dichteinsatz: FPM
O-Ring: FPM
Zugentlastung: nach EN 62444, Ausf. A*
Einsatztemperatur: -40°C bis 200°C
Schutzart: IP 68 (bis 10 bar) / IP 69

Material: brass, nickel-plated
Sealing insert: FPM
O-ring: FPM
Strain relief: acc. to EN 62444, version A*
Temperature range: -40°C to 200°C
Protection type: IP 68 (up to 10 bar) / IP 69



101.03
101.23



*nur metrische Größen

*only metric sizes

Weitere internationale Zulassungen vorhanden

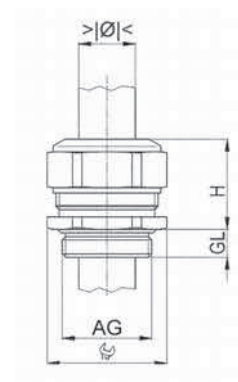
Further international approvals available



Gewinde Entry Thread AG			H mm	Gew. kurz / Thread short		Gew. lang / Thread long	
				GL mm	HUGRO No.	GL mm	HUGRO No.

kurzer, einteiliger Dichteinsatz / short, one-piece sealing insert							
M 6 x 1	2 - 2,5	8	12	5	101.0602.03	8	101.0602.23
M 6 x 1	2,5 - 3	8	12	5	101.0603.03	8	101.0603.23
M 6 x 1	3 - 3,5	8	12	5	101.0604.03	8	101.0604.23
M 8 x 1,25	2,5 - 3,5	11	14	5	101.0803.03	10	101.0803.23
M 8 x 1,25	3,5 - 5	11	14	5	101.0805.03	10	101.0805.23
M 10 x 1,5	3 - 4	13	15	5	101.1004.03	10	101.1004.23
M 10 x 1,5	4 - 6	13	15	5	101.1006.03	10	101.1006.23
M 12 x 1,5	3,5 - 5	15	17	5	101.1505.03	10	101.1505.23
M 12 x 1,5	5 - 6,5	15	17	5	101.1506.03	10	101.1506.23
M 12 x 1,5	6,5 - 8	15	17	5	101.1508.03	10	101.1508.23
M 16 x 1,5	8 - 10,5	18	22	5	101.1710.03	10	101.1710.23
M 20 x 1,5	11 - 15	24	23	6	101.2015.03	10	101.2015.23
M 25 x 1,5	16 - 20,5	30	28	7	101.2520.03	11	101.2520.23
M 32 x 1,5	21 - 25,5	36	28	8	101.3225.03	13	101.3225.23
M 40 x 1,5	28,5 - 33	46	31	8	101.4033.03	13	101.4033.23
M 50 x 1,5	37 - 42	55	34	9	101.5042.03	14	101.5042.23
M 63 x 1,5	46 - 52	70	37	10	101.6352.03	14	101.6352.23
Pg 7	3,5 - 5	15	17	6	101.0705.03	10	101.0705.23
Pg 7	5 - 6,5	15	17	6	101.0706.03	10	101.0706.23
Pg 7	6,5 - 8	15	17	6	101.0708.03	10	101.0708.23
Pg 9	8 - 10,5	18	22	6	101.0910.03	10	101.0910.23
Pg 11	8,5 - 12	21	21	6	101.1112.03	10	101.1112.23
Pg 13,5	11 - 15	24	23	6	101.1315.03	10	101.1315.23
Pg 16	11 - 15	24	23	6	101.1615.03	10	101.1615.23
Pg 21	16 - 20,5	30	28	7,5	101.2120.03	12	101.2120.23
Pg 29	23 - 27,5	38	28	8	101.2927.03	12	101.2927.23
Pg 36	30,5 - 35	50	32	8	101.3635.03	15	101.3635.23
Pg 42	37 - 42	55	34	10	101.4242.03	15	101.4242.23
Pg 48	43 - 49	65	37	11	101.4849.03	15	101.4849.23

kurzer, zweiteiliger Dichteinsatz / short, two-piece sealing insert							
M 16 x 1,5	6 - 10,5	18	22	5	101.1702.03	10	101.1702.23
M 20 x 1,5	8 - 15	24	23	6	101.2002.03	10	101.2002.23
M 25 x 1,5	12,5 - 20,5	30	28	7	101.2502.03	11	101.2502.23
M 32 x 1,5	17 - 25,5	36	28	8	101.3202.03	13	101.3202.23
M 40 x 1,5	24 - 33	46	31	8	101.4002.03	13	101.4002.23
M 50 x 1,5	33 - 42	55	34	9	101.5002.03	14	101.5002.23
M 63 x 1,5	40 - 52	70	37	10	101.6302.03	14	101.6302.23
Pg 9	6 - 10,5	18	22	6	101.0902.03	10	101.0902.23
Pg 11	5,5 - 12	21	21	6	101.1102.03	10	101.1102.23
Pg 13,5	8 - 15	24	23	6	101.1302.03	10	101.1302.23
Pg 16	8 - 15	24	23	6	101.1602.03	10	101.1602.23
Pg 21	12,5 - 20,5	30	28	7,5	101.2102.03	12	101.2102.23
Pg 29	19 - 27,5	38	28	8	101.2902.03	12	101.2902.23
Pg 36	26 - 35	50	32	8	101.3602.03	15	101.3602.23
Pg 42	33 - 42	55	34	10	101.4202.03	15	101.4202.23
Pg 48	37 - 49	65	37	11	101.4802.03	15	101.4802.23



Progress-M/MF

Material: Messing vernickelt
Dichteinsatz: TPE
O-Ring: NBR
Einsatztemperatur: -40°C bis 100°C
Schutzart: IP 68

Material: brass, nickel-plated
Sealing insert: TPE
O-ring: NBR
Temperature range: -40°C to 100°C
Protection type: IP 68






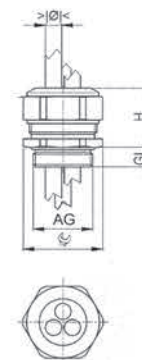
101.04
101.24

Weitere internationale Zulassungen vorhanden

Further international approvals available



Gewinde Entry Thread AG				H mm	Gew. kurz / Thread short		Gew. lang / Thread long	
					GL mm	HUGRO No.	GL mm	HUGRO No.
M 16 x 1,5	2,0 - 3,0	2	18	22	5	101.17302.04	10	101.17302.24
M 16 x 1,5	2,5 - 4,0	2	18	22	5	101.17402.04	10	101.17402.24
M 16 x 1,5	3,5 - 5,0	2	18	22	5	101.17502.04	10	101.17502.24
M 20 x 1,5	3,5 - 5,0	2	24	23	6	101.20502.04	10	101.20502.24
M 20 x 1,5	3,5 - 5,0	3	24	23	6	101.20503.04	10	101.20503.24
M 20 x 1,5	3,5 - 5,0	4	24	23	6	101.20504.04	10	101.20504.24
M 20 x 1,5	4,5 - 6,0	2	24	23	6	101.20602.04	10	101.20602.24
M 20 x 1,5	4,5 - 6,0	3	24	23	6	101.20603.04	10	101.20603.24
M 20 x 1,5	4,5 - 6,0	4	24	23	6	101.20604.04	10	101.20604.24
M 20 x 1,5	5,2 - 6,5	3	24	23	6	101.20653.04	10	101.20653.24
M 20 x 1,5	5,5 - 7,5	2	24	23	6	101.20752.04	10	101.20752.24
M 25 x 1,5	4,8 - 6,0	6	30	28	7	101.25606.04	11	101.25606.24
M 25 x 1,5	5,0 - 7,0	2	30	28	7	101.25702.04	11	101.25702.24
M 25 x 1,5	5,5 - 7,0	3	30	28	7	101.25703.04	11	101.25703.24
M 25 x 1,5	5,5 - 7,0	4	30	28	7	101.25704.04	11	101.25704.24
M 25 x 1,5	6,7 - 9,0	2	30	28	7	101.25902.04	11	101.25902.24
M 25 x 1,5	6,8 - 9,0	3	30	28	7	101.25903.04	11	101.25903.24
M 25 x 1,5	7,7 - 10,0	2	30	28	7	101.25102.04	11	101.25102.24
M 32 x 1,5	5,8 - 7,0	6	36	28	8	101.32706.04	13	101.32706.24
M 32 x 1,5	7,0 - 9,0	3	36	28	8	101.32903.04	13	101.32903.24
M 32 x 1,5	7,0 - 9,0	4	36	28	8	101.32904.04	13	101.32904.24
M 32 x 1,5	8,5 - 10,5	3	36	28	8	101.32103.04	13	101.32103.24
M 32 x 1,5	9,0 - 11,5	2	36	28	8	101.32112.04	13	101.32112.24






Progress-M/MF (Pg)

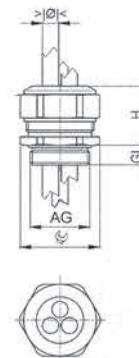
Material: Messing vernickelt
Dichteinsatz: TPE
O-Ring: NBR
Einsatztemperatur: -40°C bis 100°C
Schutzart: IP 68

Material: brass, nickel-plated
Sealing insert: TPE
O-ring: NBR
Temperature range: -40°C to 100°C
Protection type: IP 68



101.04
101.24

Gewinde Entry Thread AG				H mm	Gew. kurz / Thread short		Gew. lang / Thread long	
					GL mm	HUGRO No.	GL mm	HUGRO No.
Pg 9	2,0 - 3,0	2	18	22	6	101.09302.04	10	101.09302.24
Pg 9	2,5 - 4,0	2	18	22	6	101.09402.04	10	101.09402.24
Pg 9	3,5 - 5,0	2	18	22	6	101.09502.04	10	101.09502.24
Pg 11	3,5 - 5,0	2	21	21	6	101.11502.04	10	101.11502.24
Pg 11	3,5 - 5,0	3	21	21	6	101.11503.04	10	101.11503.24
Pg 11	4,5 - 6,0	2	21	21	6	101.11602.04	10	101.11602.24
Pg 11	5,5 - 7,5	2	24	23	6	101.11752.04	10	101.11752.24
Pg 13,5	3,5 - 5,0	2	24	23	6	101.13502.04	10	101.13502.24
Pg 13,5	3,5 - 5,0	3	24	23	6	101.13503.04	10	101.13503.24
Pg 13,5	3,5 - 5,0	4	24	23	6	101.13504.04	10	101.13504.24
Pg 13,5	4,5 - 6,0	2	24	23	6	101.13602.04	10	101.13602.24
Pg 13,5	4,5 - 6,0	3	24	23	6	101.13603.04	10	101.13603.24
Pg 13,5	4,5 - 6,0	4	24	23	6	101.13604.04	10	101.13604.24
Pg 13,5	5,2 - 6,5	3	24	23	6	101.13653.04	10	101.13653.24
Pg 13,5	5,5 - 7,5	2	24	23	6	101.13752.04	10	101.13752.24
Pg 16	3,5 - 5,0	2	24	23	6	101.16502.04	10	101.16502.24
Pg 16	3,5 - 5,0	3	24	23	6	101.16503.04	10	101.16503.24
Pg 16	3,5 - 5,0	4	24	23	6	101.16504.04	10	101.16504.24
Pg 16	4,5 - 6,0	2	24	23	6	101.16602.04	10	101.16602.24
Pg 16	4,5 - 6,0	3	24	23	6	101.16603.04	10	101.16603.24
Pg 16	4,5 - 6,0	4	24	23	6	101.16604.04	10	101.16604.24
Pg 16	5,0 - 7,0	3	30	28	6	101.16703.04	10	101.16703.24
Pg 16	5,5 - 7,0	4	30	28	6	101.16704.04	10	101.16704.24
Pg 16	5,5 - 7,5	2	24	23	6	101.16752.04	10	101.16752.24
Pg 16	6,7 - 9,0	2	30	28	6	101.16902.04	10	101.16902.24
Pg 21	4,8 - 6,0	6	30	28	7,5	101.21606.04	12	101.21606.24
Pg 21	5,0 - 7,0	2	30	28	7,5	101.21702.04	12	101.21702.24
Pg 21	5,5 - 7,0	3	30	28	7,5	101.21703.04	12	101.21703.24
Pg 21	5,5 - 7,0	4	30	28	7,5	101.21704.04	12	101.21704.24
Pg 21	5,8 - 7,0	6	36	28	7,5	101.21706.04	12	101.21706.24
Pg 21	6,7 - 9,0	2	30	28	7,5	101.21902.04	12	101.21902.24
Pg 21	6,8 - 9,0	3	30	28	7,5	101.21903.04	12	101.21903.24
Pg 21	7,0 - 9,0	4	36	28	7,5	101.21904.04	12	101.21904.24
Pg 21	7,7 - 10,0	2	30	28	7,5	101.21102.04	12	101.21102.24
Pg 21	8,5 - 10,5	3	36	28	7,5	101.21103.04	12	101.21103.24
Pg 21	9,0 - 11,5	2	36	28	7,5	101.21112.04	12	101.21112.24
Pg 29	7,5 - 9,0	3	38	28	8	101.29903.04	12	101.29903.24



Kabelverschraubungen mit speziell langem Gewinde

Cable Glands with specially long entry thread

Progress-ML

Material: Messing vernickelt
 Dichteinsatz: TPE
 O-Ring: NBR
 Zugentlastung: nach EN 62444, Ausf. A*
 Einsatztemperatur: -40°C bis 100°C
 Schutzart: IP 68/ IP 69

Material: brass, nickel-plated
 Sealing insert: TPE
 O-ring: NBR
 Strain relief: acc. to EN 62444, version A*
 Temperature range: -40°C to 100°C
 Protection type: IP 68/ IP 69



101.50
101.100



* nur metrische Größen

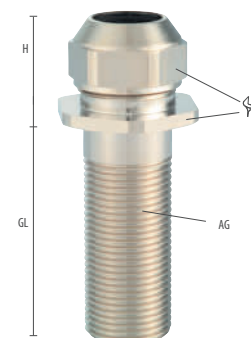
* only metric sizes

Weitere internationale Zulassungen vorhanden

Further international approvals available



Gewinde Entry Thread AG			H mm	GL mm	HUGRO No. 50 mm	GL mm	HUGRO No. 100 mm
M 16 x 1,5	6 - 10,5	24/18	22	50	101.1702.50	100	101.1702.100
M 20 x 1,5	8 - 15	30/24	23	50	101.2002.50	100	101.2002.100
M 25 x 1,5	12,5 - 20,5	36/30	28	50	101.2502.50	100	101.2502.100
M 32 x 1,5	17 - 25,5	46/36	28	50	101.3202.50	100	101.3202.100
M 40 x 1,5	24 - 33	55/46	31	50	101.4002.50		
Pg 11	5,5 - 12	27/21	21	50	101.1102.50		
Pg 13,5	8 - 15	30/24	23	50	101.1302.50		
Pg 16	8 - 15	30/24	23	50	101.1302.50		
Pg 21	12,5 - 20,5	38/30	28	50	101.2102.50		
Pg 29	19 - 27,5	46/38	28	50	101.2902.50		



Kabelverschraubungen mit Innengewinde

Cable Glands with internal thread



Progress-MI

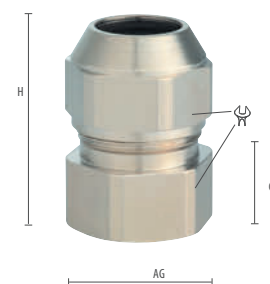
Material: Messing vernickelt
 Dichteinsatz: TPE
 O-Ring: NBR
 Zugentlastung: nach EN 62444, Ausf. A*
 Einsatztemperatur: -40°C bis 100°C
 Schutzart: IP 68 wenn Anschlussgewinde abgedichtet

Material: brass, nickel-plated
 Sealing insert: TPE
 O-ring: NBR
 Strain relief: acc. to EN 62444, version A*
 Temperature range: -40°C to 100°C
 Protection type: IP 68 when connection thread is sealed



101.70

Gewinde Entry Thread AG			H mm	GL mm	HUGRO No.
M 16 x 1,5	6 - 10,5	18	28	6	101.1702.70
M 20 x 1,5	8 - 15	24	31	6	101.2002.70
M 25 x 1,5	12,5 - 20,5	30	40	10	101.2502.70
Pg 11	5,5 - 12	21	28	6	101.1102.70
Pg 16	8 - 15	24	31	6	101.1602.70
Pg 21	12,5 - 20,5	30	40	10	101.2102.70



Uni-Dicht

Material: Messing vernickelt
Dichteinsatz: TPE
O-Ring: NBR
Zugentlastung: nach EN 62444, Ausf. A
Einsatztemperatur: -40°C bis 130°C
Schutzart: IP 68 (bis 10 bar)

Material: brass, nickel-plated
Sealing insert: TPE
O-ring: NBR
Strain relief: acc. to EN 62444, version A
Temperature range: -40°C to 130°C
Protection type: IP 68 (up to 10 bar)



103.00

Auf Anfrage:
 - mit langem Anschlußgewinde 15 mm
 - für höhere Temperaturen bis 200°C

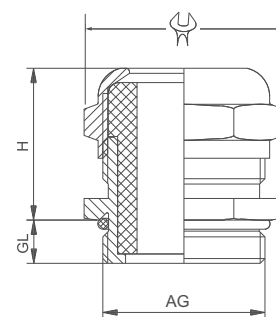
On request:
 - with long thread 15 mm
 - for higher temperatures up to 200°C

Weitere internationale Zulassungen vorhanden

Further international approvals available



Gewinde Entry Thread AG	\varnothing mm	\varnothing mm	H mm	GL mm	HUGRO No.
M 4 x 0,7	0,9 - 1,6	6	8,8	2,7	103.0402
M 6 x 0,75	2,5 - 3	8	14	4,5	103.0603
M 8 x 1	3 - 4,5	11	15,5	6,5	103.0805
M 10 x 1	4 - 6,5	14	19,5	5	103.10S7
M 10 x 1,5	4 - 6,5	14	19,5	5	103.1007
M 12 x 1,5	4 - 6,5	14	20	5	103.1507
M 16 x 1,5	4 - 6,5	18/17	20	6	103.1707
M 16 x 1,5	5 - 8	18/17	20	6	103.1708
M 16 x 1,5	6,5 - 9,5	18/17	20	6	103.1710
M 20 x 1,5	4 - 6,5	22/20	20	6	103.2007
M 20 x 1,5	5 - 8	22/20	20	6	103.2008
M 20 x 1,5	6,5 - 9,5	22/20	20	6	103.2010
M 20 x 1,5	7 - 10,5	22/20	20	6	103.2011
M 20 x 1,5	4 - 6,5	22	21	6,5	103.2307
M 20 x 1,5	5 - 8	22	21	6,5	103.2308
M 20 x 1,5	6,5 - 9,5	22	21	6,5	103.2310
M 20 x 1,5	7 - 10,5	22	21	6,5	103.2311
M 20 x 1,5	9 - 13	22	21	6,5	103.2313
M 25 x 1,5	4 - 6,5	28/24	21	7,5	103.2507
M 25 x 1,5	5 - 8	28/24	21	7,5	103.2508
M 25 x 1,5	6,5 - 9,5	28/24	21	7,5	103.2510
M 25 x 1,5	7 - 10,5	28/24	21	7,5	103.2511
M 25 x 1,5	9 - 13	28/24	21	7,5	103.2513
M 25 x 1,5	11,5 - 15,5	28/24	21	7,5	103.2516
M 32 x 1,5	7 - 10,5	35/30	25	8	103.3211
M 32 x 1,5	9 - 13	35/30	25	8	103.3213
M 32 x 1,5	11,5 - 15,5	35/30	25	8	103.3216
M 32 x 1,5	14 - 18	35/30	25	8	103.3218
M 32 x 1,5	17 - 20,5	35/30	25	8	103.3221
M 40 x 1,5	11,5 - 15,5	43/40	25	8	103.4016
M 40 x 1,5	14 - 18	43/40	25	8	103.4018
M 40 x 1,5	17 - 20,5	43/40	25	8	103.4021
M 40 x 1,5	20 - 25	43/40	25	8	103.4025
M 40 x 1,5	24 - 28	43/40	25	8	103.4028
M 50 x 1,5	27 - 32	54/50	28	9	103.5032
M 50 x 1,5	29 - 34	54/50	28	9	103.5034
M 50 x 1,5	32 - 36	54/50	28	9	103.5036
M 50 x 1,5	36 - 40	57	30	10	103.5040
M 63 x 1,5	39 - 44	68	30	10	103.6344
M 63 x 1,5	40 - 45	81	56	16	103.6345
M 63 x 1,5	45 - 51	81	56	16	103.6351
M 63 x 1,5	51 - 56	81	56	16	103.6356
M 75 x 1,5	42 - 47	81	47	15	103.7447
M 75 x 1,5	45 - 52	81	47	15	103.7452
M 75 x 1,5	51 - 55	81	47	15	103.7455
M 75 x 1,5	54 - 58	81	47	15	103.7458
M 72 x 2	40 - 45	81	58	16	103.7245
M 72 x 2	45 - 51	81	58	16	103.7251
M 72 x 2	51 - 56	81	58	16	103.7256
M 80 x 2	50 - 57	95	61	15	103.8057
M 80 x 2	58 - 64	95	61	15	103.8064
M 80 x 2	63 - 70	95	61	15	103.8070
M 90 x 2	69 - 76	120	62	20	103.9A76
M 90 x 2	75 - 85	120	62	20	103.9A85
M 100 x 2	69 - 76	120	63	25	103.9K76
M 100 x 2	75 - 85	120	63	25	103.9K85
M 100 x 2	76 - 90	120	63	25	103.9K90
M 120 x 2	90 - 100	145	70	30	103.9S10
M 120 x 2	100 - 110	145	70	30	103.9S11



Blue Globe-Ms

Material: Messing vernickelt
 Dichteinsatz: TPE blau
 O-Ring: HNBR
 Zugentlastung: nach EN 62444, Ausf. B
 Einsatztemperatur: -40°C bis 130°C
 Schutzart: IP 68 (bis 15 bar) / IP 69

Material: brass, nickel-plated
 Sealing insert: TPE blue
 O-ring: HNBR
 Strain relief: acc. to EN 62444, version B
 Temperature range: -40°C to 130°C
 Protection type: IP 68 (up to 15 bar) / IP 69



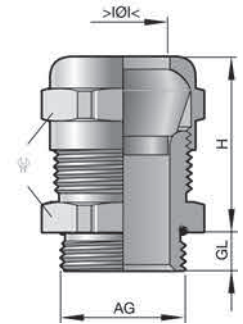
103.00
103.20

Weitere internationale Zulassungen vorhanden

Further international approvals available



Gewinde Entry Thread AG	\varnothing mit Inlet / with inlet mm	\varnothing mit Inlet / with inlet mm	\varnothing mm	H mm	GL mm	HUGRO No.
M 8 x 1	3 - 6		11	22	5	103.080606.00
M 10 x 1	1,5 - 6	1,5 - 3	13	20	6	103.100606.00
M 12 x 1,5	2 - 8	2 - 5	17	21	5	103.150808.00
M 16 x 1,5	4 - 11	4 - 7	20	25	6	103.171111.00
M 20 x 1,5	5 - 14	5 - 9	24	29	6,5	103.201414.00
M 25 x 1,5	11 - 20	11 - 16	30	30	7,5	103.252020.00
M 32 x 1,5	15 - 25	15 - 20	36	32	8	103.322525.00
M 40 x 1,5	20 - 32	20 - 26	45	35	8	103.403232.00
M 50 x 1,5	31 - 42	31 - 35	57	39	10	103.504242.00
M 63 x 1,5	41 - 54	41 - 46	68	40	10	103.635454.00
M 75 x 1,5	54 - 65	54 - 58	81	47	15	103.746565.00
M 85 x 2	65 - 77	65 - 70	95	49	15	103.8F7777.00



langes Anschlussgewinde / long entry thread

M 12 x 1,5	2 - 8	2 - 5	17	21	15	103.150808.20
M 16 x 1,5	4 - 11	4 - 7	20	25	15	103.171111.20
M 20 x 1,5	5 - 14	5 - 9	24	29	15	103.201414.20
M 25 x 1,5	11 - 20	11 - 16	30	30	15	103.252020.20
M 32 x 1,5	15 - 25	15 - 20	36	32	15	103.322525.20
M 40 x 1,5	20 - 32	20 - 26	45	35	15	103.403232.20
M 50 x 1,5	31 - 42	31 - 35	57	39	15	103.504242.20
M 63 x 1,5	41 - 54	41 - 46	68	40	15	103.635454.20



Auf Anfrage: - für Temperaturbereich -55°C bis + 180°C
On request: - for temperatures -55°C up to 180°C



Progress-M/OB + Progress-M/OB/HT

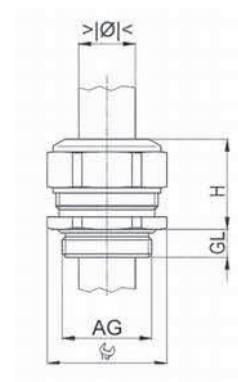
Material: Messing vernickelt
Dichteinsatz: NBR/FPM, ohne Bohrung
O-Ring: NBR/FPM
Einsatztemperatur: NBR: -40°C bis 100°C /
FPM: -40°C bis 200°C
Schutzart: IP 68 (bis 10 bar) / IP 69

Material: brass, nickel-plated
Sealing insert: NBR/FPM, without hole
O-ring: NBR/FPM
Temperature range: NBR: -40°C to 100°C /
FPM: -40°C to 200°C
Protection type: IP 68 (up to 10 bar) / IP 69



106.00
106.03

Gewinde Entry Thread AG			H mm	GL mm	Progress-M/OB NBR HUGRO No.	Progress-M/OB/HT FPM HUGRO No.
M 6 x 1	3,5	8	12	5	106.0600.00	106.0600.03
M 8 x 1,25	5	11	14	5	106.0800.00	106.0800.03
M 10 x 1,5	6	13	15	5	106.1000.00	106.1000.03
M 12 x 1,5	8	15	17	5	106.1500.00	106.1500.03
M 16 x 1,5	10,5	18	22	5	106.1700.00	106.1700.03
M 20 x 1,5	15	24	23	6	106.2000.00	106.2000.03
M 25 x 1,5	20,5	30	28	7	106.2500.00	106.2500.03
M 32 x 1,5	25,5	36	28	8	106.3200.00	106.3200.03
M 40 x 1,5	33	46	31	8	106.4000.00	106.4000.03
M 50 x 1,5	42	55	34	9	106.5000.00	106.5000.03
M 63 x 1,5	52	70	37	10	106.6300.00	106.6300.03



Pg 7	8	15	17	6	106.0700.00	106.0700.03
Pg 9	10,5	18	22	6	106.0900.00	106.0900.03
Pg 11	12	21	21	6	106.1100.00	106.1100.03
Pg 11	15	24	23	6	106.1120.00	106.1120.03
Pg 13,5	15	24	23	6	106.1300.00	106.1300.03
Pg 16	15	24	23	6	106.1600.00	106.1600.03
Pg 16	18,5	30	28	6	106.1625.00	106.1625.03
Pg 21	20,5	30	28	7,5	106.2100.00	106.2100.03
Pg 21	23	36	28	7,5	106.2132.00	106.2132.03
Pg 29	27,5	38	28	8	106.2900.00	106.2900.03
Pg 29	33	46	31	8	106.2940.00	106.2940.03
Pg 36	35	50	32	8	106.3600.00	106.3600.03
Pg 36	42	55	34	8	106.3650.00	106.3650.03
Pg 42	42	55	34	10	106.4200.00	106.4200.03
Pg 48	49	65	37	11	106.4800.00	106.4800.03



Geeignet für Reparaturen, zur Herstellung von Prototypen oder für den Einsatz bei einzelnen Maschinen. Die Durchführung kann im Dichteinsatz nach Wahl gebohrt werden.	Suitable for repairs, for construction of prototypes or for applications to individual machines. The hole can be drilled in accordance with the cable diameter.
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Uni-Dicht/MF




Material: Messing vernickelt
Dichteinsatz: TPE
O-Ring: NBR
Einsatztemperatur: -40°C bis 130°C
Schutzart: IP 65

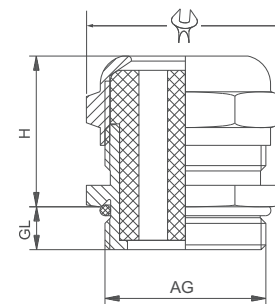
Material: brass, nickel-plated
Sealing insert: TPE
O-ring: NBR
Temperature range: -40°C to 130°C
Protection type: IP 65



106.14



Gewinde Entry Thread AG	 mm	H mm	GL mm	 mm	HUGRO No.	 mm	HUGRO No.
M 16 x 1,5	18/17	20	6	2 x 1,2	106.17122.14	4 x 1,4	106.17144.14
M 16 x 1,5	18/17	20	6	2 x 3	106.17302.14	3 x 3	106.17303.14
M 16 x 1,5	18/17	20	6	4 x 3	106.17304.14	2 x 4	106.17402.14
M 20 x 1,5	22/20	20	6	8 x 1,2	106.20128.14	4 x 1,5	106.20154.14
M 20 x 1,5	22/20	20	6	7 x 1,5	106.20157.14	9 x 1,5	106.20159.14
M 20 x 1,5	22/20	20	6	6 x 2	106.20206.14	2 x 2,3	106.20232.14
M 20 x 1,5	22/20	20	6	6 x 2,5	106.20256.14	2 x 3	106.20302.14
M 20 x 1,5	22/20	20	6	3 x 3	106.20303.14	5 x 3,5	106.20355.14
M 20 x 1,5	22/20	20	6	2 x 4	106.20402.14	3 x 4	106.20403.14
M 20 x 1,5	22/20	20	6	2 x 5	106.20502.14	2 x 6	106.20602.14
M 20 x 1,5	22	21	6,5	8 x 1,5	106.23158.14	3 x 2	106.23203.14
M 20 x 1,5	22	21	6,5	10 x 2	106.23210.14	2 x 3	106.23302.14
M 20 x 1,5	22	21	6,5	3 x 3	106.23303.14	4 x 3	106.23304.14
M 20 x 1,5	22	21	6,5	6 x 3,5	106.23356.14	3 x 4	106.23403.14
M 20 x 1,5	22	21	6,5	2 x 5	106.23502.14	2 x 6	106.23602.14
M 25 x 1,5	28/24	21	7,5	7 x 2	106.25207.14	3 x 3	106.25303.14
M 25 x 1,5	28/24	21	7,5	9 x 3	106.25309.14	2 x 4	106.25402.14
M 25 x 1,5	28/24	21	7,5	4 x 4	106.25404.14	6 x 4	106.25406.14
M 25 x 1,5	28/24	21	7,5	2 x 6	106.25602.14	4 x 6	106.25604.14
M 25 x 1,5	28/24	21	7,5	3 x 7	106.25703.14	2 x 8	106.25802.14
M 32 x 1,5	35/30	25	8	21 x 2	106.32221.14	8 x 3	106.32308.14
M 32 x 1,5	35/30	25	8	6 x 4	106.32406.14	8 x 4	106.32408.14
M 32 x 1,5	35/30	25	8	2 x 4,5	106.32452.14	4 x 5	106.32504.14
M 32 x 1,5	35/30	25	8	6 x 5	106.32506.14	8 x 5	106.32508.14
M 32 x 1,5	35/30	25	8	4 x 6	106.32604.14	4 x 6,5	106.32654.14
M 32 x 1,5	35/30	25	8	6 x 6,5	106.32656.14	3 x 7	106.32703.14
M 32 x 1,5	35/30	25	8	2 x 8	106.32802.14	4 x 8	106.32804.14
M 32 x 1,5	35/30	25	8	2 x 9	106.32902.14	3 x 9	106.32903.14
M 40 x 1,5	43/40	25	8	12 x 5,3	106.40512.14	6 x 6	106.40606.14
M 40 x 1,5	43/40	25	8	10 x 6	106.40610.14	7 x 7	106.40707.14
M 40 x 1,5	43/40	25	8	5 x 8	106.40805.14	6 x 8	106.40806.14
M 40 x 1,5	43/40	25	8	4 x 9	106.40904.14	5 x 9	106.40905.14
M 40 x 1,5	43/40	25	8	4 x 10	106.40104.14	5 x 10	106.40105.14
M 40 x 1,5	43/40	25	8	2 x 11	106.40112.14	3 x 11	106.40113.14
M 40 x 1,5	43/40	25	8	2 x 13	106.40132.14		
M 50 x 1,5	54/50	28	9	15 x 5	106.50515.14	13 x 7	106.50713.14
M 50 x 1,5	54/50	28	9	8 x 8	106.50808.14	11 x 8	106.50811.14
M 50 x 1,5	54/50	28	9	7 x 9	106.50907.14	8 x 9	106.50908.14
M 50 x 1,5	54/50	28	9	3 x 10	106.50103.14	4 x 11,5	106.50114.14
M 50 x 1,5	54/50	28	9	5 x 11,5	106.50115.14	4 x 13	106.50134.14
M 50 x 1,5	54/50	28	9	2 x 15	106.50152.14		
M 63 x 1,5	68	30	10	8 x 10	106.63108.14	4 x 12	106.63124.14
M 63 x 1,5	68	30	10	8 x 12	106.63128.14	4 x 16	106.63164.14
M 63 x 1,5	68	30	10	3 x 18	106.63183.14		



Auf Anfrage:	On request:
- weitere Ausführungen mit unterschiedlichen Bohrungen	- further versions with different holes
- Bolzen zum Verschließen nicht gebrauchter Bohrungen siehe Zubehör - Serie 683	- Plugs for closing of not used holes see accessories - series 683




Uni-Dicht / MF (Pg)

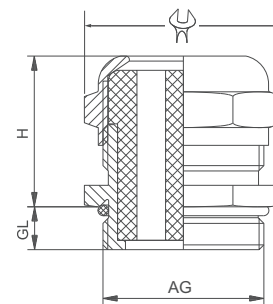
Material: Messing vernickelt
Dichteinsatz: TPE
O-Ring: NBR
Einsatztemperatur: -40°C bis 130°C
Schutzart: IP 65

Material: brass, nickel-plated
Sealing insert: TPE
O-ring: NBR
Temperature range: -40°C up to 130°C
Protection type: IP 65



106.14

Gewinde Entry Thread AG	 mm	H mm	GL mm	 mm	HUGRO No.	 mm	HUGRO No.
Pg 9	17	19	6	2 x 1,2	106.09122.14	4 x 1,4	106.09144.14
Pg 9	17	19	6	2 x 3	106.09302.14	3 x 3	106.09303.14
Pg 9	17	19	6	4 x 3	106.09304.14	2 x 4	106.09402.14
Pg 11	20	20	6			4 x 1,5	106.11154.14
Pg 11	20	20	6	7 x 1,5	106.11157.14	9 x 1,5	106.11159.14
Pg 11	20	20	6	6 x 2	106.11206.14	2 x 2,3	106.11232.14
Pg 11	20	20	6	6 x 2,5	106.11256.14	2 x 3	106.11302.14
Pg 11	20	20	6	3 x 3	106.11303.14	5 x 3,5	106.11355.14
Pg 11	20	20	6	2 x 4	106.11402.14	3 x 4	106.11403.14
Pg 11	20	20	6	2 x 5	106.11502.14	2 x 6	106.11602.14
Pg 13,5	22	20	6,5	8 x 1,5	106.13158.14	3 x 2	106.13203.14
Pg 13,5	22	20	6,5	10 x 2	106.13210.14	2 x 3	106.13302.14
Pg 13,5	22	20	6,5	3 x 3	106.13303.14	4 x 3	106.13304.14
Pg 13,5	22	20	6,5	6 x 3,5	106.13356.14	3 x 4	106.13403.14
Pg 13,5	22	20	6,5	2 x 5	106.13502.14	2 x 6	106.13602.14
Pg 16	24	20	6,5	7 x 2	106.16207.14	3 x 3	106.16303.14
Pg 16	24	20	6,5	9 x 3	106.16309.14	2 x 4	106.16402.14
Pg 16	24	20	6,5	4 x 4	106.16404.14	6 x 4	106.16406.14
Pg 16	24	20	6,5	2 x 6	106.16602.14	4 x 6	106.16604.14
Pg 16	24	20	6,5	3 x 7	106.16703.14	2 x 8	106.16802.14
Pg 21	30	25	7	21 x 2	106.21221.14	8 x 3	106.21308.14
Pg 21	30	25	7	6 x 4	106.21406.14	8 x 4	106.21408.14
Pg 21	30	25	7	2 x 4,5	106.21452.14	4 x 5	106.21504.14
Pg 21	30	25	7	6 x 5	106.21506.14	8 x 5	106.21508.14
Pg 21	30	25	7	4 x 6	106.21604.14	4 x 6,5	106.21654.14
Pg 21	30	25	7	6 x 6,5	106.21656.14	3 x 7	106.21703.14
Pg 21	30	25	7	2 x 8	106.21802.14	4 x 8	106.21804.14
Pg 21	30	25	7	2 x 9	106.21902.14	3 x 9	106.21903.14
Pg 29	40	27	8	12 x 5,3	106.29512.14	6 x 6	106.29606.14
Pg 29	40	27	8	10 x 6	106.29610.14	7 x 7	106.29707.14
Pg 29	40	27	8	5 x 8	106.29805.14	6 x 8	106.29806.14
Pg 29	40	27	8	4 x 9	106.29904.14	5 x 9	106.29905.14
Pg 29	40	27	8	4 x 10	106.29104.14	5 x 10	106.29105.14
Pg 29	40	27	8	2 x 11	106.29112.14	3 x 11	106.29113.14
Pg 29	40	27	8	2 x 13	106.29132.14		
Pg 36	50	32	8,5	15 x 5	106.36515.14	13 x 7	106.36713.14
Pg 36	50	32	8,5	8 x 8	106.36808.14	11 x 8	106.36811.14
Pg 36	50	32	8,5	7 x 9	106.36907.14	8 x 9	106.36908.14
Pg 36	50	32	8,5	3 x 10	106.36103.14	4 x 11,5	106.36114.14
Pg 36	50	32	8,5	5 x 11,5	106.36115.14	4 x 13	106.36134.14
Pg 36	50	32	8,5	2 x 15	106.36152.14		
Pg 48	65	35	10	8 x 10	106.48108.14	4 x 12	106.48124.14
Pg 48	65	35	10	8 x 12	106.48128.14	4 x 16	106.48164.14
Pg 48	65	35	10	3 x 18	106.48183.14		



Auf Anfrage:

- weitere Ausführungen mit unterschiedlichen Bohrungen
- Bolzen zum Verschließen nicht gebrauchter Bohrungen siehe Zubehör - Serie 683

On request:

- further versions with different holes
- Plugs for closing of not used holes see accessories - series 683

Progress-W + Progress-WF

Material: Messing vernickelt
 Dichteinsatz: TPE
 Zugentlastung: nach EN 62444, Ausf. A*
 Einsatztemperatur: -40°C bis 100°C
 Schutzart: IP 68 (wenn das Anschluss-gewinde abgedichtet ist)

Material: brass, nickel-plated
 Sealing insert: TPE
 Strain relief: acc. to EN 62444, version A*
 Temperature range: -40°C to 100°C
 Protection type: IP 68 (only if entry thread is sealed)



111.00
 111.20
 111.50

* nur metrische Größen

* only metric sizes

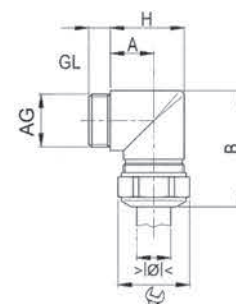
Weitere internationale Zulassungen vorhanden

Further international approvals available



Gewinde Entry Thread AG			H mm	A mm	B mm	GL mm	HUGRO No.
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kurzer, einteiliger Dichteinsatz / short, one-piece sealing insert							
M 12 x 1,5	5 - 6,5	15	19	11	32	8	111.1506.00
M 12 x 1,5	5 - 6,5	15	19	11	32	12	111.1506.20
kurzer, zweiteiliger Dichteinsatz / short, two-piece sealing insert							
M 16 x 1,5	6 - 10,5	18	24	13	36	8	111.1702.00
M 16 x 1,5	6 - 10,5	18	24	13	36	12	111.1702.20
M 20 x 1,5	8 - 15	24	30	16	44	8	111.2002.00
M 20 x 1,5	8 - 15	24	30	16	44	12	111.2002.20
M 25 x 1,5	12,5 - 20,5	30	37	20	52	10	111.2502.00
M 25 x 1,5	12,5 - 20,5	30	37	20	52	14	111.2502.20
M 32 x 1,5	17 - 25,5	36	40	23	60	10	111.3202.00
M 32 x 1,5	17 - 25,5	36	40	23	60	16	111.3202.20
M 40 x 1,5	24 - 33	46	50	28	72	10	111.4002.00
M 40 x 1,5	24 - 33	46	50	28	72	16	111.4002.20
kurzer, einteiliger Dichteinsatz / short, one-piece sealing insert							
Pg 7	5 - 6,5	15	19	11	32	8	111.0706.00
Pg 7	5 - 6,5	15	19	11	32	11	111.0706.20
kurzer, zweiteiliger Dichteinsatz / short, two-piece sealing insert							
Pg 9	6 - 10,5	18	24	13	36	8	111.0902.00
Pg 9	6 - 10,5	18	24	13	36	11	111.0902.20
Pg 11	5,5 - 12	21	24	14	40	8	111.1102.00
Pg 11	5,5 - 12	21	24	14	40	11	111.1102.20
Pg 13,5	8 - 15	24	29	16	44	10	111.1302.00
Pg 13,5	8 - 15	24	29	16	44	13	111.1302.20
Pg 16	8 - 15	24	29	16	44	10	111.1602.00
Pg 16	8 - 15	24	29	16	44	13	111.1602.20
Pg 21	12,5 - 20,5	30	37	20	52	10	111.2102.00
Pg 21	12,5 - 20,5	30	37	20	52	14	111.2102.20
Pg 29	19 - 27,5	38	44	24	65	10	111.2902.00
Pg 29	19 - 27,5	38	44	24	65	14	111.2902.20



Progress-WF
 desgleichen, jedoch mit Kontermutter aus Messing vernickelt / dito, but with brass nickel-plated counter nut

kurzer, einteiliger Dichteinsatz / short, one-piece sealing insert							
M 12 x 1,5	5 - 6,5	15	19	11	32	12	111.1506.50
kurzer, zweiteiliger Dichteinsatz / short, two-piece sealing insert							
M 16 x 1,5	6 - 10,5	18	24	13	36	12	111.1702.50
M 20 x 1,5	8 - 15	24	30	16	44	12	111.2002.50
M 25 x 1,5	12,5 - 20,5	30	37	20	52	14	111.2502.50
M 32 x 1,5	17 - 25,5	36	40	23	60	16	111.3202.50
M 40 x 1,5	24 - 33	46	50	28	72	16	111.4002.50

kurzer, einteiliger Dichteinsatz / short, one-piece sealing insert							
Pg 7	5 - 6,5	15	19	11	32	11	111.0706.50
kurzer, zweiteiliger Dichteinsatz / short, two-piece sealing insert							
Pg 9	6 - 10,5	18	24	13	36	11	111.0902.50
Pg 11	5,5 - 12	21	24	14	40	11	111.1102.50
Pg 13,5	8 - 15	24	29	16	44	13	111.1302.50
Pg 16	8 - 15	24	29	16	44	13	111.1602.50
Pg 21	12,5 - 20,5	30	37	20	52	14	111.2102.50
Pg 29	19 - 27,5	38	44	24	65	14	111.2902.50



DIN 89280

Material: Messing blank
 Dichtring: Polychloroprene
 Einsatztemperatur: -20°C bis 80°C
 Schutzart: IP 54
 Ausrüstungsart: "W" für Kabel ohne Schirmung
 "Z" für Kabel mit Schirmung

Material: brass
 Sealing ring simple: Polychloroprene
 Temperature range: -20°C to 80 °C
 Protection type: IP 54
 Equipment: "W" for unscreened cable
 "Z" for screened cable



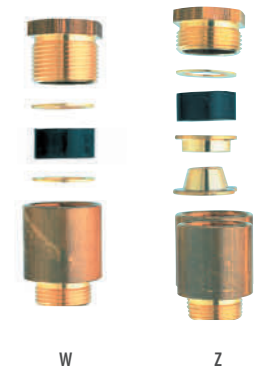
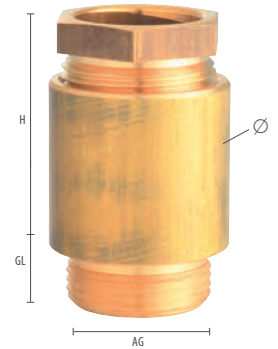
Auf Anfrage
on request

129.W
129.Z

Mit metrischem Anschlussgewinde
nach EN 60423 auf Anfrage

With metric entry thread
acc. to EN 60423 on request

Gewinde Entry Thread AG	\varnothing_k mm	\varnothing mm	H mm	GL mm	Ausrüstung „W“ Outfit „W“ HUGRO No.	Erd-Einsatz Earthing Insert	Ausrüstung „Z“ Outfit „Z“ HUGRO No.
M 18 x 1,5	7 - 8,5	22	24	10	129.1808.W08	A1 *	129.1808.Z08
M 18 x 1,5	8 - 10,5	22	24	10	129.1810.W10	A2	129.1810.Z10
M 24 x 1,5	7 - 8,5	28	26	11	129.2408.W08	A3 *	129.2408.Z08
M 24 x 1,5	8 - 10,5	28	26	11	129.2410.W10	A4	129.2410.Z10
M 24 x 1,5	10 - 12,5	28	26	11	129.2412.W12	A5 *	129.2412.Z12
M 24 x 1,5	12 - 14,5	28	26	11	129.2414.W14	A6	129.2414.Z14
M 24 x 1,5	14 - 16,5	28	26	11	129.2416.W16	A7	129.2416.Z16
M 24 x 1,5	16 - 17,5	28	26	11	129.2417.W17	A8	129.2417.Z17
M 30 x 2	16 - 18,5	35	31	12	129.3018.W18	A9 *	129.3018.Z18
M 30 x 2	18 - 20,5	35	31	12	129.3020.W20	A10	129.3020.Z20
M 36 x 2	20 - 22,5	41	34	13	129.3622.W22	A11	129.3622.Z22
M 36 x 2	22 - 24,5	41	34	13	129.3624.W24	A12*	129.3624.Z24
M 36 x 2	24 - 26,5	41	34	13	129.3626.W26	A13	129.3626.Z26
M 45 x 2	26 - 28,5	51	37	14	129.4528.W28	A14	129.4528.Z28
M 45 x 2	28 - 30,5	51	37	14	129.4530.W30	A15	129.4530.Z30
M 45 x 2	30 - 32,5	51	37	14	129.4532.W32	A15	129.4532.Z32
M 56 x 2	32 - 35,5	62	40	15	129.5635.W35	A16	129.5635.Z35
M 56 x 2	35 - 38,5	62	40	15	129.5638.W38	A17	129.5638.Z38
M 56 x 2	38 - 41,5	62	40	15	129.5641.W41	A17	129.5641.Z41
M 72 x 2	41 - 44,5	78	44	16	129.7244.W44	A18	129.7244.Z44
M 72 x 2	44 - 48,5	78	44	16	129.7248.W48	A19	129.7248.Z48
M 72 x 2	48 - 52,5	78	44	16	129.7252.W52	A19	129.7252.Z52
M 72 x 2	52 - 56,5	78	44	16<	129.7256.W56		
M 80 x 2 **	62 - 66	90	47	18	129.8064.W64	EE80a	129.8064.Z64
M 105 x 2 **	68 - 73	115	54	20	129.9570.W70	EE105a	129.9570.Z70
M 105 x 2 **	78 - 83	115	54	20	129.9580.W80		



* In der überarbeiteten Norm DIN 89280 (August 1992) sind diese Erdungseinsätze nicht mehr enthalten und sollten daher möglichst nicht mehr für Neukonstruktionen vorgesehen werden.

* The standard DIN 89280 revised in August 1992 does not contain these earthing inserts. Therefore, these inserts should not be considered for new constructions.

** Sondergrößen ähnlich DIN 89280

** Special sizes similar to DIN 89280

DIN 89280 (Pg)

Material: Messing blank
 Dichtring: Polychloroprene
 Einsatztemperatur: -20°C bis 80°C
 Schutzart: IP 54
 Ausrüstungsart: "W" für Kabel ohne Schirmung
 "Z" für Kabel mit Schirmung

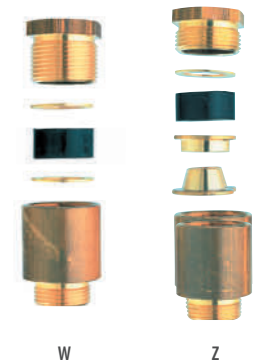
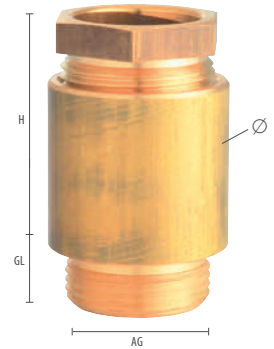
Material: brass
 Sealing ring simple: Polychloroprene
 Temperature range: -20°C to 80°C
 Protection type: IP 54
 Equipment: "W" for unscreened cable
 "Z" for screened cable



**Auf Anfrage
on request**

**129.W
129.Z**

Gewinde Entry Thread AG	Innengewinde Inside Thread	mm	Ausrüstung „W“ / Outfit „W“		Ausrüstung „Z“ / Outfit „Z“	
			No.	HUGRO No.	No.	HUGRO No.
Pg 9	M 18 x 1,5	7 - 10,5	W8, W10	129.0918.W.	Z8, Z10	129.0918.Z.
Pg 11	M 18 x 1,5	7 - 10,5	W8, W10	129.1118.W.	Z8, Z10	129.1118.Z.
Pg 13,5	M 18 x 1,5	7 - 10,5	W8, W10	129.1318.W.	Z8, Z10	129.1318.Z.
Pg 16	M 18 x 1,5	7 - 10,5	W8, W10	129.1618.W.	Z8, Z10	129.1618.Z.
Pg 9	M 24 x 1,5	7 - 17,5	W8 - W17	129.0924.W.	Z8 - Z17	129.0924.Z.
Pg 11	M 24 x 1,5	7 - 17,5	W8 - W17	129.1124.W.	Z8 - Z17	129.1124.Z.
Pg 13,5	M 24 x 1,5	7 - 17,5	W8 - W17	129.1324.W.	Z8 - Z17	129.1324.Z.
Pg 16	M 24 x 1,5	7 - 17,5	W8 - W17	129.1624.W.	Z8 - Z17	129.1624.Z.
Pg 21	M 24 x 1,5	7 - 17,5	W8 - W17	129.2124.W.	Z8 - Z17	129.2124.Z.
Pg 29	M 24 x 1,5	7 - 17,5	W8 - W17	129.2924.W.	Z8 - Z17	129.2924.Z.
Pg 11	M 30 x 2	16 - 20,5	W18, W20	129.1130.W.	Z18, Z20	129.1130.Z.
Pg 13,5	M 30 x 2	16 - 20,5	W18, W20	129.1330.W.	Z18, Z20	129.1330.Z.
Pg 16	M 30 x 2	16 - 220,5	W18, W20	129.1630.W.	Z18, Z20	129.1630.Z.
Pg 21	M 30 x 2	16 - 20,5	W18, W20	129.2130.W.	Z18, Z20	129.2130.Z.
Pg 29	M 30 x 2	16 - 20,5	W18, W20	129.2930.W.	Z18, Z20	129.2930.Z.
Pg 36	M 30 x 2	16 - 20,5	W18, W20	129.3630.W.	Z18, Z20	129.3630.Z.
Pg 16	M 36 x 2	20 - 226,5	W22 - W26	129.1636.W.	Z22 - Z26	129.1636.Z.
Pg 21	M 36 x 2	20 - 226,5	W22 - W26	129.2136.W.	Z22 - Z26	129.2136.Z.
Pg 29	M 36 x 2	20 - 226,5	W22 - W26	129.2936.W.	Z22 - Z26	129.2936.Z.
Pg 36	M 36 x 2	20 - 226,5	W22 - W26	129.3636.W.	Z22 - Z26	129.3636.Z.
Pg 42	M 36 x 2	20 - 226,5	W22 - W26	129.4236.W.	Z22 - Z26	129.4236.Z.
Pg 21	M 45 x 2	26 - 232,5	W28 - W32	129.2145.W.	Z28 - Z32	129.2145.Z.
Pg 29	M 45 x 2	26 - 232,5	W28 - W32	129.2945.W.	Z28 - Z32	129.2945.Z.
Pg 36	M 45 x 2	26 - 232,5	W28 - W32	129.3645.W.	Z28 - Z32	129.3645.Z.
Pg 42	M 45 x 2	26 - 232,5	W28 - W32	129.4245.W.	Z28 - Z32	129.4245.Z.
Pg 48	M 45 x 2	26 - 232,5	W28 - W32	129.4845.W.	Z28 - Z32	129.4845.Z.
Pg 36	M 56 x 2	32 - 241,5	W35 - W41	129.3656.W.	Z35 - Z41	129.3656.Z.
Pg 42	M 56 x 2	32 - 241,5	W35 - W41	129.4256.W.	Z35 - Z41	129.4256.Z.
Pg 48	M 56 x 2	32 - 241,5	W35 - W41	129.4856.W.	Z35 - Z41	129.4856.Z.
Pg 42	M 72 x 2	41 - 256,5	W44 - W56	129.4272.W.	Z44 - Z52	129.4272.Z.
Pg 48	M 72 x 2	41 - 256,5	W44 - W56	129.4872.W.	Z44 - Z52	129.4872.Z.



Die Artikel-Nummer ist mit dem gewünschten Ausrüstungsset zu ergänzen, z.B. 129.0918.W10.
 Die Ausrüstungssets sind im Kapitel Zubehör beschrieben (Serien 629.W und 629.Z).
 The reference no. has to be completed by the kit type, for example: 129.0918.W10.
 Description of the equipment kits see chapter accessories (series 629.W and 629.Z).

Auf Anfrage lieferbar:
 Mit metrischem Gewinde nach EN 60 423 auf Anfrage
On request:
 With metric thread acc. to EN 60 423 on request

Progress-M/KS

Material: Messing vernickelt
Knickschutzspirale: Edelstahl (1.4305)
Dichteinsatz: TPE
O-Ring: NBR
Zugentlastung: nach EN 62444, Ausf. A*
Einsatztemperatur: -40°C bis 100°C
Schutzart: IP 68 (bis 10 bar) / IP 69

Material: brass, nickel-plated
Spiral spring: stainless steel (1.4305)
Sealing insert: TPE
O-ring: NBR
Strain relief: acc. to EN 62444, version A*
Temperature range: -40°C to 100°C
Protection type: IP 68 (up to 10 bar) / IP 69



135.01



* nur metrische Größen

* only metric sizes

Weitere internationale Zulassungen vorhanden

Further international approvals available



Gewinde Entry Thread AG			H mm	GL mm	HUGRO No.
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langer, einteiliger Dichteinsatz / long, one-piece sealing insert					
M 8 x 1,25	2,5 - 3	11	49	5	135.0803.01
M 8 x 1,25	3 - 4	11	49	5	135.0804.01
M 10 x 1,5	3 - 4	13	52	5	135.1004.01
M 10 x 1,5	4 - 6	13	52	5	135.1006.01
M 12 x 1,5	3,5 - 5	15	57	5	135.1505.01
M 12 x 1,5	5 - 6,5	15	57	5	135.1506.01
M 12 x 1,5	6,5 - 7,5	15	57	5	135.1508.01
M 16 x 1,5	4,5 - 6	18	66	5	135.1706.01
M 16 x 1,5	6 - 8	18	66	5	135.1708.01
M 16 x 1,5	8 - 10,5	18	66	5	135.1710.01
M 20 x 1,5	6 - 8	24	86	6	135.2008.01
M 20 x 1,5	8 - 11	24	86	6	135.2011.01
M 20 x 1,5	11 - 14,5	24	86	6	135.2015.01
M 25 x 1,5	9,5 - 12,5	30	99	7	135.2512.01
M 25 x 1,5	12,5 - 16	30	99	7	135.2516.01
M 25 x 1,5	16 - 19	30	99	7	135.2519.01
M 32 x 1,5	17 - 21	36	109	8	135.3221.01
M 32 x 1,5	21 - 24,5	36	109	8	135.3225.01

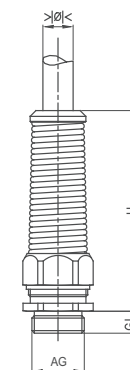
Pg 7	3,5 - 5	15	57	6	135.0705.01
Pg 7	5 - 6,5	15	57	6	135.0706.01
Pg 7	6,5 - 7,5	15	57	6	135.0708.01
Pg 9	4,5 - 6	18	66	6	135.0906.01
Pg 9	6 - 8	18	66	6	135.0908.01
Pg 9	8 - 10,5	18	66	6	135.0910.01
Pg 11	4,5 - 6	18/21	66	6	135.1106.01
Pg 11	6 - 8	18/21	66	6	135.1108.01
Pg 11	8 - 10,5	18/21	66	6	135.1110.01
Pg 13,5	6 - 8	24	86	6	135.1308.01
Pg 13,5	8 - 11	24	86	6	135.1311.01
Pg 13,5	11 - 14,5	24	86	6	135.1315.01
Pg 16	6 - 8	24	86	6	135.1608.01
Pg 16	8 - 11	24	86	6	135.1611.01
Pg 16	11 - 14,5	24	86	6	135.1615.01
Pg 21	9,5 - 12,5	30	99	7,5	135.2112.01
Pg 21	12,5 - 16	30	99	7,5	135.2116.01
Pg 21	16 - 19	30	99	7,5	135.2119.01

langer, zweiteiliger Dichteinsatz / long, two-piece sealing insert					
M 16 x 1,5	6 - 10,5	18	66	5	135.1702.01
M 20 x 1,5	8 - 14,5	24	86	6	135.2002.01
M 25 x 1,5	12,5 - 19	30	99	7	135.2502.01
M 32 x 1,5	17 - 24,5	36	109	8	135.3202.01

Pg 9	6 - 10,5	18	66	6	135.0902.01
Pg 11	6 - 10,5	18/21	66	6	135.1102.01
Pg 13,5	8 - 14,5	24	86	6	135.1302.01
Pg 16	8 - 14,5	24	86	6	135.1602.01
Pg 21	12,5 - 19	30	99	7,5	135.2102.01

Auf Anfrage lieferbar:
- mit kurzem Dichteinsatz
- mit langem Anschlussgewinde

Available on request:
- with short sealing insert
- with long entry thread



Progress-M/FK

Material: Messing vernickelt
Dichteinsatz: TPE
O-Ring: NBR
Einsatztemperatur: -40°C bis 100°C
Schutzart: IP 68

Material: brass, nickel-plated
Sealing insert: TPE
O-ring: NBR
Temperature range: -40°C to 100°C
Protection type: IP 68



136.00
136.20


* nur metrische Größen

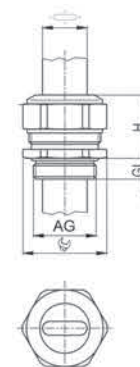
* only metric sizes

Weitere internationale Zulassungen vorhanden

Further international approvals available



Gewinde Entry Thread AG	- - -			H mm	Gew. kurz / Thread short GL HUGRO No.		Gew. lang / Thread long GL HUGRO No.	
	max. mm	min. mm			mm	HUGRO No.	mm	HUGRO No.
M 16 x 1,5	9,0 - 4,2	7,3 - 2,5	18	22	5	136.1701.00	10	136.1701.20
M 20 x 1,5	13,0 - 5,0	10,5 - 2,5	24	23	6	136.2001.00	10	136.2001.20
M 20 x 1,5	15,0 - 5,0	12,5 - 2,5	24	23	6	136.2002.00	10	136.2002.20
M 25 x 1,5	19,0 - 7,0	16,0 - 4,0	30	28	7	136.2501.00	11	136.2501.20
M 32 x 1,5	22,0 - 6,0	19,0 - 3,0	36	28	8	136.3202.00	13	136.3202.20
M 32 x 1,5	22,0 - 8,0	19,0 - 5,0	36	28	8	136.3203.00	13	136.3203.20
M 40 x 1,5	26,0 - 7,0	23,0 - 4,0	46	31	8	136.4001.00	13	136.4001.20
M 40 x 1,5	26,5 - 9,0	23,5 - 6,0	46	31	8	136.4002.00	13	136.4002.20
M 40 x 1,5	28,0 - 6,0	25,0 - 3,0	46	31	8	136.4003.00	13	136.4003.20
M 40 x 1,5	30,0 - 10,0	27,0 - 7,0	46	31	8	136.4004.00	13	136.4004.20
M 40 x 1,5	32,0 - 9,0	29,0 - 6,0	46	31	8	136.4005.00	13	136.4005.20
M 40 x 1,5	33,0 - 6,5	30,0 - 3,5	46	31	8	136.4006.00	13	136.4006.20
M 50 x 1,5	34,0 - 11,5	31,0 - 8,5	55	34	9	136.5001.00	14	136.5001.20
M 50 x 1,5	37,0 - 7,0	34,0 - 4,0	55	34	9	136.5002.00	14	136.5002.20
M 50 x 1,5	40,0 - 6,0	36,5 - 2,5	55	34	9	136.5003.00	14	136.5003.20
M 50 x 1,5	40,0 - 13,5	36,5 - 10,0	55	34	9	136.5004.00	14	136.5004.20
M 50 x 1,5	42,0 - 14,0	38,5 - 10,5	55	34	9	136.5005.00	14	136.5005.20
M 63 x 1,5	46,0 - 14,0	42,0 - 10,0	70	37	10	136.6301.00	14	136.6301.20
M 63 x 1,5	46,5 - 6,0	42,5 - 2,0	70	37	10	136.6302.00	14	136.6302.20
Pg 9	9,0 - 4,2	7,3 - 2,5	18	22	6	136.0901.00	10	136.0901.20
Pg 13,5	13,0 - 5,0	10,5 - 2,5	24	23	6	136.1301.00	10	136.1301.20
Pg 13,5	15,0 - 5,0	12,5 - 2,5	24	23	6	136.1302.00	10	136.1302.20
Pg 16	13,0 - 5,0	10,5 - 2,5	24	23	6	136.1601.00	10	136.1601.20
Pg 16	15,0 - 5,0	12,5 - 2,5	24	23	6	136.1602.00	10	136.1602.20
Pg 21	19,0 - 7,0	16,0 - 4,0	30	28	7,5	136.2101.00	12	136.2101.20
Pg 21	22,0 6,0	19,0 - 3,0	36	28	7,5	136.2102.00	12	136.2102.20
Pg 21	22,0 - 8,0	19,0 - 5,0	36	28	7,5	136.2103.00	12	136.2103.20
Pg 29	26,0 - 7,0	23,0 - 4,0	46	31	8	136.2901.00	12	136.2901.20
Pg 29	26,5 - 9,0	23,5 - 6,0	46	31	8	136.2902.00	12	136.2902.20
Pg 29	28,0 - 6,0	25,0 - 3,0	46	31	8	136.2903.00	12	136.2903.20
Pg 29	30,0 - 10,0	27,0 - 7,0	46	31	8	136.2904.00	12	136.2904.20
Pg 29	32,0 - 9,0	29,0 - 6,0	46	31	8	136.2905.00	12	136.2905.20
Pg 29	33,0 - 6,5	30,0 - 3,5	46	31	8	136.2906.00	12	136.2906.20
Pg 42	34,0 - 11,5	31,0 - 8,5	55	34	10	136.4201.00	15	136.4201.20
Pg 42	37,0 - 7,0	34,0 - 4,0	55	34	10	136.4202.00	15	136.4202.20
Pg 42	40,0 - 6,0	36,5 - 2,5	55	34	10	136.4203.00	15	136.4203.20
Pg 42	40,0 - 13,5	36,5 - 10,0	55	34	10	136.4204.00	15	136.4204.20
Pg 42	42,0 - 14,0	38,5 - 10,5	55	34	10	136.4205.00	15	136.4205.20
Pg 48	46,0 - 14,0	42,0 - 10,0	65	37	11	136.4801.00	15	136.4801.20
Pg 48	46,5 - 6,0	42,5 - 2,0	65	37	11	136.4802.00	15	136.4802.20



Progress-M / ZE

Material: Messing vernickelt
Schrauben: rostfreier Stahl A2
Dichtensatz: TPE (zweiteilig)
O-Ring: NBR
Zugentlastung: nach EN 62444, Ausf. B*
Einsatztemperatur: -40°C bis 100°C
Schutzart: IP 68 (bis 10 bar) / IP 69

Material: brass, nickel-plated
Screws: stainless steel A2
Sealing insert: TPE (two-piece)
O-ring: NBR
Strain relief: acc. to EN 62444, version B*
Temperature range: -40°C to 100°C
Protection type: IP 68 (up to 10 bar) / IP 69



Auf Anfrage
on request

144.00
144.20



*nur metrische Größen

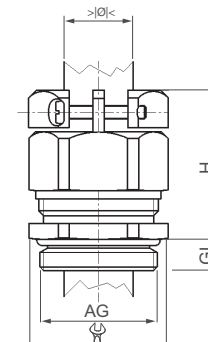
*only metric sizes

Weitere internationale Zulassungen vorhanden

Further international approvals available



Gewinde Entry Thread AG			H mm	Gew. kurz / Thread short		Gew. lang / Thread long	
				GL mm	HUGRO No.	GL mm	HUGRO No.
M 10 x 1,5	3 - 4	13/16	24	5	144.1004.00 ¹⁾	10	144.1004.20 ¹⁾
M 10 x 1,5	4 - 6	13/16	24	5	144.1006.00 ¹⁾	10	144.1006.20 ¹⁾
M 12 x 1,5	5 - 6,5	15/16	26	5	144.1506.00 ¹⁾	10	144.1506.20 ¹⁾
M 12 x 1,5	6,5 - 8	15/16	26	5	144.1508.00 ¹⁾	10	144.1508.20 ¹⁾
M 16 x 1,5	6 - 10,5	18/19	30	5	144.1702.00	10	144.1702.20
M 20 x 1,5	8 - 15	24	31	6	144.2002.00	10	144.2002.20
M 25 x 1,5	12,5 - 20,5	30	35	7	144.2502.00	11	144.2502.20
M 32 x 1,5	17 - 25,5	36	40	8	144.3202.00	13	144.3202.20
M 40 x 1,5	24 - 33	46	44	8	144.4002.00	13	144.4002.20
M 50 x 1,5	33 - 42	55	49	9	144.5002.00	14	144.5002.20
M 63 x 1,5	40 - 52	70	55	10	144.6302.00	14	144.6302.20
M 75 x 1,5	50 - 63	80	56	11	144.7402.00	15	144.7402.20
PG 7	5 - 6,5	15/16	26	6	144.0706.00 ¹⁾	10	144.0706.20 ¹⁾
PG 7	6,5 - 8	15/16	26	6	144.0708.00 ¹⁾	10	144.0708.20 ¹⁾
PG 9	6 - 10,5	18/19	30	6	144.0902.00	10	144.0902.20
PG 11	5,5 - 12	21	31	6	144.1102.00	10	144.1102.20
PG 13	8 - 15	24	31	6	144.1302.00	10	144.1302.20
PG 16	8 - 15	24	31	6	144.1602.00	10	144.1602.20
PG 21	12,5 - 20,5	30	35	7	144.2102.00	12	144.2102.20
PG 29	19 - 27,5	38	40	8	144.2902.00	12	144.2902.20
PG 36	26 - 35	50	47	8	144.3602.00	15	144.3602.20
PG 42	33 - 42	55	49	10	144.4202.00	15	144.4202.20
PG 48	37 - 49	65	51	11	144.4802.00	15	144.4802.20



¹⁾ einfacher Dichtensatz / one piece sealing

WADI-KT

Material: Messing vernickelt
Dichteinsatz: NBR
Knickschutztülle: EPDM
O-Ring: NBR
Zugentlastung: nach EN 62444, Ausf. A*
Einsatztemperatur: -40°C bis 100°C
Schutzart: IP 68 / IP 69

Material: brass, nickel-plated
Sealing insert: NBR
Antikink nozzle: EPDM
O-ring: NBR
Strain relief: acc. to EN 62444, version A*
Temperature range: -40°C to 100°C
Protection type: IP 68 / IP 69



145.00



* nur metrische Größen

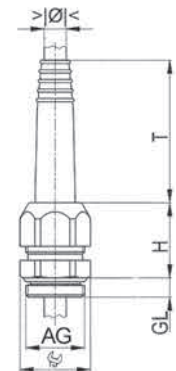
* only metric sizes

Weitere internationale Zulassungen vorhanden

Further international approvals available



Gewinde Entry Thread AG			H mm	T mm	GL mm	HUGRO No.
kurzer, einteiliger Dichteinsatz / short, one-piece sealing insert						
M 8 x 1,25	3,8 - 4,8	11	12	25	6	145.0805
M 10 x 1,5	4 - 6	16	20	35	6	145.1006
M 12 x 1,5	4 - 6	16	20	35	6	145.1506
M 16 x 1,5	6 - 8,8	20	24	45	6	145.1709
M 20 x 1,5	9 - 11	24	28	65	6	145.2011
M 20 x 1,5	10,5 - 13	24	28	75	6	145.2013
M 25 x 1,5	13 - 16,5	32	33	92	7	145.2516
Pg 7	4 - 6	16	20	35	6	145.0706
Pg 9	6 - 8,8	20	24	45	6	145.0909
Pg 11	6 - 8,8	20	24	45	6	145.1109
Pg 13,5	9 - 11	24	28	65	6	145.1311
Pg 13,5	10,5 - 13	24	28	75	6	145.1313
Pg 16	9 - 11	24	28	65	6	145.1611
Pg 16	10,5 - 13	24	28	75	6	145.1613
Pg 21	13 - 16,5	32	33	92	7,5	145.2116



Progress-M/BS

Material: Messing vernickelt
Dichteinsatz: TPE (zweiteilig)
O-Ring: NBR
Zugentlastung: nach EN 62444, Ausf. A*
Einsatztemperatur: -40°C bis 100°C
Schutzart: IP 68 (bis 10 bar) / IP 69

Material: brass, nickel-plated
Sealing insert: TPE (two-piece)
O-ring: NBR
Strain relief: acc. to EN 62444, version A*
Temperature range: -40°C to 100°C
Protection type: IP 68 (up to 10 bar) / IP 69



146.00
146.20



*nur metrische Größen

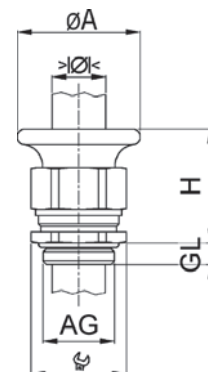
*only metric sizes

Weitere internationale Zulassungen vorhanden

Further international approvals available



Gewinde Entry Thread AG	 mm	 mm	A mm	H mm	Gew. kurz / Thread short		Gew. lang / Thread long	
					GL mm	HUGRO No.	GL mm	HUGRO No.
M 16 x 1,5	6 - 10,5	18	28	31	5	146.1702.00	10	146.1702.20
M 20 x 1,5	8 - 15	24	34	32	6	146.2002.00	10	146.2002.20
M 25 x 1,5	12,5 - 20,5	30	44	38	7	146.2502.00	11	146.2502.20
M 32 x 1,5	17 - 25,5	36	50	44	8	146.3202.00	13	146.3202.20
M 40 x 1,5	24 - 33	46	57	46	8	146.4002.00	13	146.4002.20
PG 9	6 - 10,5	18	28	31	6	146.0902.00	10	146.0902.20
PG 11	5,5 - 12	21	30	31	6	146.1102.00	10	146.1102.20
PG 13	8 - 15	24	34	32	6	146.1302.00	10	146.1302.20
PG 16	8 - 15	24	34	32	6	146.1602.00	10	146.1602.20
PG 21	12,5 - 20,5	30	44	38	7	146.2102.00	12	146.2102.20
PG 29	19 - 27,5	38	50	44	8	146.2902.00	12	146.2902.20



Progress-M/BZ

Material: Messing vernickelt
Schrauben: rostfreier Stahl A2
Dichteinsatz: TPE (zweiteilig)
O-Ring: NBR
Zugentlastung: nach EN 62444, Ausf. B*
Einsatztemperatur: -40°C bis 100°C
Schutzart: IP 68 (bis 10 bar) / IP 69

Material: brass, nickel-plated
Screws: stainless steel A2
Sealing insert: TPE (two-piece)
O-ring: NBR
Strain relief: acc. to EN 62444, version B*
Temperature range: -40°C to 100°C
Protection type: IP 68 (up to 10 bar) / IP 69



Auf Anfrage
on request

147.00
147.20



*nur metrische Größen

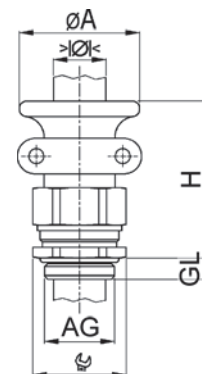
*only metric sizes

Weitere internationale Zulassungen vorhanden

Further international approvals available



Gewinde Entry Thread AG			A mm	H mm	Gew. kurz / Thread short		Gew. lang / Thread long	
					GL mm	HUGRO No.	GL mm	HUGRO No.
M 16 x 1,5	6 - 10,5	18	28	43	5	147.1702.00	10	147.1702.20
M 20 x 1,5	8 - 15	24	34	46	6	147.2002.00	10	147.2002.20
M 25 x 1,5	12,5 - 20,5	30	44	52	7	147.2502.00	11	147.2502.20
M 32 x 1,5	17 - 25,5	36	50	59	8	147.3202.00	13	147.3202.20
M 40 x 1,5	24 - 33	46	57	59	8	147.4002.00	13	147.4002.20
PG 9	6 - 10,5	18	28	43	6	147.0902.00	10	147.0902.20
PG 11	5,5 - 12	21	30	43	6	147.1102.00	10	147.1102.20
PG 13	8 - 15	24	34	46	6	147.1302.00	10	147.1302.20
PG 16	8 - 15	24	34	46	6	147.1602.00	10	147.1602.20
PG 21	12,5 - 20,5	30	44	52	7	147.2102.00	12	147.2102.20
PG 29	19 - 27,5	38	50	59	8	147.2902.00	12	147.2902.20



WADI-ML

Material: Messing vernickelt
 Klemmeinsatz: PA
 Dichteinsatz: CR
 O-Ring: NBR
 Zugentlastung: nach EN 62444, Ausf. A
 Einsatztemperatur: -40°C bis 100°C
 Schutzart: IP 68

Material: brass, nickel-plated
 Clamping insert: PA
 Sealing insert: CR
 O-ring: NBR
 Strain relief: acc. to EN 62444, version A
 Temperature range: -40 °C to 100 °C
 Protection type: IP 68



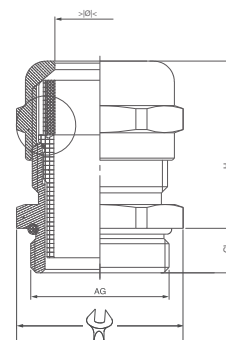
151.SK
151.SL

*nur metrische Größen

*only metric sizes



Gewinde Entry Thread AG			H mm	Gew. kurz / Thread short		Gew. lang / Thread long	
				GL mm	HUGRO No.	GL mm	HUGRO No.
M 12 x 1,5	1,5 - 5	14	20	5	151.1505.SK	15	151.1505.SL
M 12 x 1,5	2,5 - 6,5	14	20	5	151.1507.SK	15	151.1507.SL
M 16 x 1,5	2,5 - 7	17	23	5	151.1707.SK	15	151.1707.SL
M 16 x 1,5	4 - 9,5	17	23	5	151.1710.SK	15	151.1710.SL
M 20 x 1,5	4 - 10	22	26	6	151.2010.SK	15	151.2010.SL
M 20 x 1,5	7 - 13	22	26	6	151.2013.SK	15	151.2013.SL
M 25 x 1,5	5 - 13	27	28	7	151.2513.SK	15	151.2513.SL
M 25 x 1,5	8 - 16	27	28	7	151.2516.SK	15	151.2516.SL
M 32 x 1,5	7 - 17	34	30	8	151.3217.SK	15	151.3217.SL
M 32 x 1,5	11 - 21	34	30	8	151.3221.SK	15	151.3221.SL
M 40 x 1,5	10 - 22	42	33	8	151.4022.SK	15	151.4022.SL
M 40 x 1,5	15 - 27	42	33	8	151.4027.SK	15	151.4027.SL
M 50 x 1,5	17 - 29	55	37	9	151.5029.SK	15	151.5029.SL
M 50 x 1,5	22 - 35	55	37	9	151.5035.SK	15	151.5035.SL
M 63 x 1,5	28 - 40	65	44	10	151.6340.SK	15	151.6340.SL
M 63 x 1,5	35 - 48	65	44	10	151.6348.SK	15	151.6348.SL
Pg 7	1,5 - 5	14	20	5	151.0705.SK	15	151.0705.SL
Pg 7	2,5 - 6,5	14	20	5	151.0707.SK	15	151.0707.SL
Pg 9	2,5 - 7	17	23	6	151.0907.SK	15	151.0907.SL
Pg 9	4 - 9,5	17	23	6	151.0910.SK	15	151.0910.SL
Pg 11	3 - 8,5	20	24	6	151.1109.SK	15	151.1109.SL
Pg 11	6 - 11,5	20	24	6	151.1112.SK	15	151.1112.SL
Pg 13,5	4 - 10	22	26	6,5	151.1310.SK	15	151.1310.SL
Pg 13,5	7 - 13	22	26	6,5	151.1313.SK	15	151.1313.SL
Pg 16	5 - 12	24	28	6,5	151.1612.SK	15	151.1612.SL
Pg 16	8 - 15	24	28	6,5	151.1615.SK	15	151.1615.SL
Pg 21	8 - 16	30	28	7	151.2116.SK	15	151.2116.SL
Pg 21	11 - 19	30	28	7	151.2119.SK	15	151.2119.SL
Pg 29	11 - 21	40	30	8	151.2921.SK	15	151.2921.SL
Pg 29	16 - 26	40	30	8	151.2926.SK	15	151.2926.SL
Pg 36	16 - 28	50	33	9	151.3628.SK	15	151.3628.SL
Pg 36	22 - 34,5	50	33	9	151.3635.SK	15	151.3635.SL
Pg 42	22 - 34	58	37	10	151.4234.SK	15	151.4234.SL
Pg 42	27 - 40	58	37	10	151.4240.SK	15	151.4240.SL
Pg 48	28 - 40	65	44	10	151.4840.SK	15	151.4840.SL
Pg 48	35 - 48	65	44	10	151.4848.SK	15	151.4848.SL
3/8" NPT	2,5 - 7	18 / 17	23	15	151.3907.SK		
3/8" NPT	4 - 9,5	18 / 17	23	15	151.3910.SK		
1/2" NPT	4 - 10	23 / 22	26	20	151.1910.SK		
1/2" NPT	7 - 13	23 / 22	26	20	151.1913.SK		
3/4" NPT	5 - 13	28 / 27	28	20	151.3513.SK		
3/4" NPT	8 - 16	28 / 27	28	20	151.3516.SK		
1" NPT	7 - 17	36 / 34	30	25	151.7517.SK		
1" NPT	11 - 21	36 / 34	30	25	151.7521.SK		





SYNTEC-M

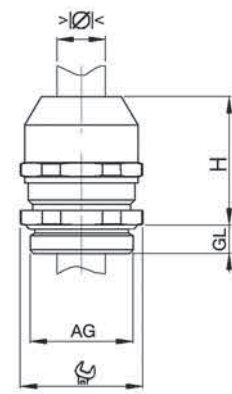
Material:	Messing vernickelt	Material:	brass, nickel-plated
Klemmeinsatz:	PA 6	Clamping insert:	PA 6
Dichteinsatz:	TPE	Sealing insert:	TPE
O-Ring:	NBR	O-ring:	NBR
Zugentlastung:	nach EN 62444, Ausf. A	Strain relief:	acc. to EN 62444, version A
Einsatztemperatur:	-40°C bis 100°C	Temperature range:	-40°C to 100°C
Schutzart:	IP 68	Protection type:	IP 68
NEMA Type rating:	4X	NEMA Type rating:	4X



152.00
152.20



Gewinde Entry Thread AG	 mm	 mm	H mm	GL mm	HUGRO No.
kurzes Anschlussgewinde / short entry thread					
M 12 x 1,5	1 - 5	15	17	5	152.1505.00
M 12 x 1,5	3 - 7	15	17	5	152.1507.00
M 16 x 1,5	2 - 6	18	20	5	152.1706.00
M 16 x 1,5	4,5 - 10	18	20	5	152.1710.00
M 20 x 1,5	3,5 - 8	22	25	6	152.2008.00
M 20 x 1,5	7 - 13	22	25	6	152.2013.00
M 25 x 1,5	5 - 11	28	31	7	152.2511.00
M 25 x 1,5	10 - 17	28	31	7	152.2517.00
M 32 x 1,5	7 - 15	36	33	8	152.3215.00
M 32 x 1,5	13 - 21	36	33	8	152.3221.00
M 40 x 1,5	15 - 23	46	40	8	152.4023.00
M 40 x 1,5	19 - 28	46	40	8	152.4028.00
M 50 x 1,5	20 - 29	55	40	9	152.5029.00
M 50 x 1,5	25 - 35	55	40	9	152.5035.00
M 63 x 1,5	28 - 39	70	43	10	152.6339.00
M 63 x 1,5	35 - 48	70	43	10	152.6348.00
langes Anschlussgewinde / long entry thread					
M 12 x 1,5	1 - 5	15	17	12	152.1505.20
M 12 x 1,5	3 - 7	15	17	12	152.1507.20
M 16 x 1,5	2 - 6	18	20	12	152.1706.20
M 16 x 1,5	4,5 - 10	18	20	12	152.1710.20
M 20 x 1,5	3,5 - 8	22	25	12	152.2008.20
M 20 x 1,5	7 - 13	22	25	12	152.2013.20
M 25 x 1,5	5 - 11	28	31	12	152.2511.20
M 25 x 1,5	10 - 17	28	31	12	152.2517.20
M 32 x 1,5	7 - 15	36	33	15	152.3215.20
M 32 x 1,5	13 - 21	36	33	15	152.3221.20
M 40 x 1,5	15 - 23	46	40	15	152.4023.20
M 40 x 1,5	19 - 28	46	40	15	152.4028.20
M 50 x 1,5	20 - 29	55	40	15	152.5029.20
M 50 x 1,5	25 - 35	55	40	15	152.5035.20
M 63 x 1,5	28 - 39	70	43	15	152.6339.20
M 63 x 1,5	35 - 48	70	43	15	152.6348.20
M 63 x 1,5	44 - 54	80	43	15	152.6354.20



SKINTOP-M

Material: Messing vernickelt
 Klemmeinsatz: PA
 Dichtung: CR
 O-Ring: NBR
 Zugentlastung: nach EN 62444, Ausf. A*
 Einsatztemperatur: -30°C bis 100°C
 Schutzart: IP 68 / IP 69

Material: brass, nickel-plated
 Clamping insert: PA
 Sealing insert: CR
 O-ring: NBR
 Strain relief: acc. to EN 62444, version A*
 Temperature range: -30°C to 100°C
 Protection type: IP 68 / IP 69



Auf Anfrage
on request

153.00
153.20

* nur metrische Größen

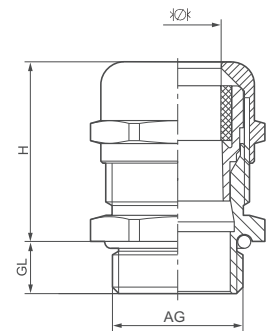
* only metric sizes

Weitere internationale Zulassungen vorhanden

Further international approvals available



Gewinde Entry Thread AG			H mm	Gew. kurz / Thread short		Gew. lang / Thread long	
				GL mm	HUGRO No.	GL mm	HUGRO No.
M 12 x 1,5	1 - 5	16	21	6,5	153.1505	12	153.1505.20
M 12 x 1,5	3 - 7	16	21	6,5	153.1507	12	153.1507.20
M 16 x 1,5	2 - 7	20	25	7	153.1707	12	153.1707.20
M 16 x 1,5	4,5 - 10	20	25	7	153.1710	12	153.1710.20
M 20 x 1,5	5 - 10	24	27,5	8	153.2010	12	153.2010.20
M 20 x 1,5	7 - 13	24	27,5	8	153.2013	12	153.2013.20
M 25 x 1,5	6 - 13	29	29,5	8	153.2513	12	153.2513.20
M 25 x 1,5	9 - 17	29	29,5	8	153.2517	12	153.2517.20
M 32 x 1,5	7 - 15	36	33	9	153.3215	15	153.3215.20
M 32 x 1,5	11 - 21	36	33	9	153.3221	15	153.3221.20
M 40 x 1,5	15 - 23	45	40,5	9	153.4023	15	153.4023.20
M 40 x 1,5	19 - 28	45	40,5	9	153.4028	15	153.4028.20
M 50 x 1,5	22 - 29	54	42	10	153.5029	15	153.5029.20
M 50 x 1,5	27 - 35	54	42	10	153.5035	15	153.5035.20
M 63 x 1,5	28 - 39	67	46	15	153.6339		
M 63 x 1,5	34 - 45	67	46	15	153.6345		
M 75 x 1,5	53 - 63	95	90	15	153.7463		
M 75 x 1,5	56 - 68	95	90	15	153.7468		
M 90 x 2	66 - 78	115	116	20	153.9A78		
M 110 x 2	76 - 88	135	129	25	153.9R88		
M 110 x 2	86 - 98	135	129	25	153.9R98		
Pg 7	2 - 5	14	20	5	153.0705	12	153.0705.20
Pg 7	2 - 6,5	14	20	5	153.0707	12	153.0707.20
Pg 9	2 - 6	17	23	6	153.0906	12	153.0906.20
Pg 9	3 - 8	17	23	6	153.0908	12	153.0908.20
Pg 11	3 - 7	20	26	6	153.1107	12	153.1107.20
Pg 11	4 - 10	20	26	6	153.1110	12	153.1110.20
Pg 13,5	4 - 9	22	27,5	6,5	153.1309	12	153.1309.20
Pg 13,5	5 - 12	22	27,5	6,5	153.1312	12	153.1312.20
Pg 16	6 - 13	24	28,5	6,5	153.1613	12	153.1613.20
Pg 16	8 - 14	24	28,5	6,5	153.1614	12	153.1614.20
Pg 21	8 - 16	30	33	7	153.2116	12	153.2116.20
Pg 21	11 - 18	30	33	7	153.2118	12	153.2118.20
Pg 29	10,5 - 20	40	40	8	153.2920	15	153.2920.20
Pg 29	16 - 25	40	40	8	153.2925	15	153.2925.20
Pg 36	19 - 26	50	47	15	153.3626		
Pg 36	19 - 32	50	47	15	153.3632		
Pg 42	24 - 31	57	47	15	153.4231		
Pg 42	28 - 38	57	47	15	153.4238		
Pg 48	28 - 35	64	47	15	153.4835		
Pg 48	34 - 44	64	47	15	153.4844		
erweiterte Ausführungen / enlarged types							
M 25 x 1,5	11 - 18	30	32	5	153.2518		
M 32 x 1,5	16 - 25	40	38	5	153.3225		
M 63 x 1,5	44 - 55	75	50	15	153.6355		



WAZU-M

Material: Messing vernickelt
 Klemmeinsatz: PA, VO nach UL 94
 Dichtung: NBR
 O-Ring: NBR
 Zugentlastung: nach EN 62444, Ausf. A*
 Einsatztemperatur: -40°C bis 100°C
 Schutzart: IP 68 - 10 bar/30 min / IP 69K
 im angegebenen Klemmbereich

Material: brass, nickel-plated
 Clamping insert: PA, VO acc. to UL 94
 Sealing insert: NBR
 O-ring: NBR
 Strain relief: acc. to EN 62444, version A*
 Temperature range: -40°C to 100°C
 Protection type: IP 68 - 10 bar/30 min / IP 69K
 within the specified clamping range



154.00
154.20

* nur metrische Größen

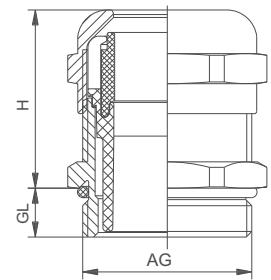
* only metric sizes

Weitere internationale Zulassungen vorhanden

Further international approvals available



Gewinde Entry Thread AG	mm	mm	H mm	Gew. kurz / Thread short		Gew. lang / Thread long	
				GL mm	HUGRO No.	GL mm	HUGRO No.
M 12 x 1,5	2 - 5	14	19	6,5	154.1505	10	154.1505.20
M 12 x 1,5	3 - 6,5	14	19	6,5	154.1507	10	154.1507.20
M 16 x 1,5	2 - 6	19/17	21	6	154.1706	10	154.1706.20
M 16 x 1,5	4 - 8	19/17	21	6	154.1708	10	154.1708.20
M 16 x 1,5	5 - 10	20	22	6	154.1710	10	154.1710.20
M 20 x 1,5	5 - 9	22	23	6	154.2009	10	154.2009.20
M 20 x 1,5	6 - 12	22	23	6	154.2012	10	154.2012.20
M 20 x 1,5	10 - 14	24	24	6	154.2014	10	154.2014.20
M 25 x 1,5	9 - 16	30	25	7	154.2516	12	154.2516.20
M 25 x 1,5	13 - 18	30	25	7	154.2518	12	154.2518.20
M 32 x 1,5	13 - 20	40	31	8	154.3220	12	154.3220.20
M 32 x 1,5	18 - 25	40	31	8	154.3225	12	154.3225.20
M 40 x 1,5	20 - 26	50	37	8	154.4026	15	154.4026.20
M 40 x 1,5	22 - 32	50	37	8	154.4032	15	154.4032.20
M 50 x 1,5	25 - 31	57	37	9	154.5031	15	154.5031.20
M 50 x 1,5	32 - 38	57	37	9	154.5038	15	154.5038.20
M 63 x 1,5	29 - 35	68/64	38	10	154.6335	15	154.6335.20
M 63 x 1,5	37 - 44	68/64	38	10	154.6344	15	154.6344.20
Pg 7	2 - 5	14	19	5	154.0705	10	154.0705.20
Pg 7	3 - 6,5	14	19	5	154.0707	10	154.0707.20
Pg 9	2 - 6	17	21	6	154.0906	10	154.0906.20
Pg 9	4 - 8	17	21	6	154.0908	10	154.0908.20
Pg 11	3 - 7	20	22	6	154.1107	10	154.1107.20
Pg 11	5 - 10	20	22	6	154.1110	10	154.1110.20
Pg 13,5	5 - 9	22	23	6,5	154.1309	10	154.1309.20
Pg 13,5	6 - 12	22	23	6,5	154.1312	10	154.1312.20
Pg 16	7 - 12	24	24	6,5	154.1612	10	154.1612.20
Pg 16	10 - 14	24	24	6,5	154.1614	10	154.1614.20
Pg 21	9 - 16	30	25	7	154.2116	12	154.2116.20
Pg 21	13 - 18	30	25	7	154.2118	12	154.2118.20
Pg 29	13 - 20	40	31	8	154.2920	12	154.2920.20
Pg 29	18 - 25	40	31	8	154.2925	12	154.2925.20
Pg 36	20 - 26	50	37	8	154.3626	15	154.3626.20
Pg 36	22 - 32	50	37	8	154.3632	15	154.3632.20
Pg 42	25 - 31	57	37	9	154.4231	15	154.4231.20
Pg 42	32 - 38	57	37	9	154.4238	15	154.4238.20
Pg 48	29 - 35	64	38	10	154.4835	15	154.4835.20
Pg 48	37 - 44	64	38	10	154.4844	15	154.4844.20
3/8" NPT	2 - 6	19/17	21	15	154.3906		
3/8" NPT	4 - 8	19/17	21	15	154.3908		
1/2" NPT	5 - 9	24/22	24	13	154.1909		
1/2" NPT	6 - 12	24/22	24	13	154.1912		
3/4" NPT	9 - 16	30	25	13	154.3516		
3/4" NPT	13 - 18	30	25	13	154.3518		
1" NPT	13 - 20	40	31	19	154.7520		
1" NPT	18 - 25	40	31	19	154.7525		



WAZU-MV

Material: Messing vernickelt
 Klemmeinsatz: PVDF
 Dichtung: FKM
 O-Ring: FKM
 Zugentlastung: nach EN 62444, Ausf. A*
 Einsatztemperatur: -35°C bis 150°C
 Schutzart: IP 68 - 10 bar/30 min / IP 69K
 im angegebenen Klemmbereich

Material: brass, nickel-plated
 Clamping insert: PVDF
 Sealing insert: FKM
 O-ring: FKM
 Strain relief: acc. to EN 62444, version A*
 Temperature range: -35°C to 150°C
 Protection type: IP 68 - 10 bar/30 min / IP 69K
 within the specified clamping range



154.03
154.23

* nur metrische Größen

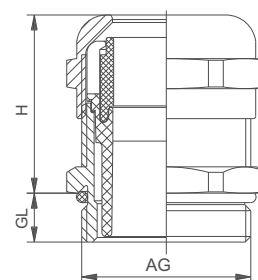
* only metric sizes

Weitere internationale Zulassungen vorhanden

Further international approvals available



Gewinde Entry Thread AG	mm	mm	H mm	Gew. kurz / Thread short		Gew. lang / Thread long	
				GL mm	HUGRO No.	GL mm	HUGRO No.
M 12 x 1,5	2 - 5	14	19	6,5	154.1505.03	10	154.1505.23
M 12 x 1,5	3 - 6,5	14	19	6,5	154.1507.03	10	154.1507.23
M 16 x 1,5	2 - 6	19/17	21	6	154.1706.03	10	154.1706.23
M 16 x 1,5	4 - 8	19/17	21	6	154.1708.03	10	154.1708.23
M 16 x 1,5	5 - 10	20	22	6	154.1710.03	10	154.1710.23
M 20 x 1,5	5 - 9	22	23	6	154.2009.03	10	154.2009.23
M 20 x 1,5	6 - 12	22	23	6	154.2012.03	10	154.2012.23
M 20 x 1,5	10 - 14	24	24	6	154.2014.03	10	154.2014.23
M 25 x 1,5	9 - 16	30	25	7	154.2516.03	12	154.2516.23
M 25 x 1,5	13 - 18	30	25	7	154.2518.03	12	154.2518.23
M 32 x 1,5	13 - 20	40	31	8	154.3220.03	12	154.3220.23
M 32 x 1,5	18 - 25	40	31	8	154.3225.03	12	154.3225.23
M 40 x 1,5	20 - 26	50	37	8	154.4026.03	15	154.4026.23
M 40 x 1,5	22 - 32	50	37	8	154.4032.03	15	154.4032.23
Pg 7	2 - 5	14	19	5	154.0705.03	10	154.0705.23
Pg 7	3 - 6,5	14	19	5	154.0707.03	10	154.0707.23
Pg 9	2 - 6	17	21	6	154.0906.03	10	154.0906.23
Pg 9	4 - 8	17	21	6	154.0908.03	10	154.0908.23
Pg 11	3 - 7	20	22	6	154.1107.03	10	154.1107.23
Pg 11	5 - 10	20	22	6	154.1110.03	10	154.1110.23
Pg 13,5	5 - 9	22	23	6,5	154.1309.03	10	154.1309.23
Pg 13,5	6 - 12	22	23	6,5	154.1312.03	10	154.1312.23
Pg 16	7 - 12	24	24	6,5	154.1612.03	10	154.1612.23
Pg 16	10 - 14	24	24	6,5	154.1614.03	10	154.1614.23
Pg 21	9 - 16	30	25	7	154.2116.03	12	154.2116.23
Pg 21	13 - 18	30	25	7	154.2118.03	12	154.2118.23
Pg 29	13 - 20	40	31	8	154.2920.03	12	154.2920.23
Pg 29	18 - 25	40	31	8	154.2925.03	12	154.2925.23
Pg 36	20 - 26	50	37	8	154.3626.03	15	154.3626.23
Pg 36	22 - 32	50	37	8	154.3632.03	15	154.3632.23
Pg 42	25 - 31	57	37	9	154.4231.03	15	154.4231.23
Pg 42	32 - 38	57	37	9	154.4238.03	15	154.4238.23
Pg 48	29 - 35	64	38	10	154.4835.03	15	154.4835.23
Pg 48	37 - 44	64	38	10	154.4844.03	15	154.4844.23
3/8" NPT	2 - 6	19/17	21	15	154.3906.03		
3/8" NPT	4 - 8	19/17	21	15	154.3908.03		
1/2" NPT	5 - 9	24/22	24	13	154.1909.03		
1/2" NPT	6 - 12	24/22	24	13	154.1912.03		
3/4" NPT	9 - 16	30	25	13	154.3516.03		
3/4" NPT	13 - 18	30	25	13	154.3518.03		



WAZU-M/MF

Material: Messing vernickelt
Klemmeinsatz: PA, VO nach UL94
Dichteinsatz: Elastomer
O-Ring: NBR
Einsatztemperatur: -40°C bis 100°C
Schutzart: IP 65

Material: brass, nickel-plated
Clamping insert: PA, VO acc. to UL94
Sealing insert: elastomere
O-ring: NBR
Temperature range: -40°C to 100°C
Protection type: IP 65





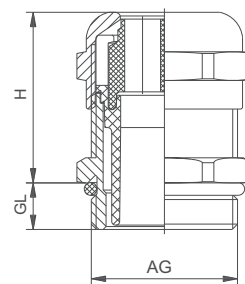
154.04

Weitere internationale Zulassungen vorhanden

Further international approvals available



Gewinde Entry Thread AG	 mm	H mm	GL mm	 mm	HUGRO No.
M 16 x 1,5	19/17	21	6	4 x 1,4	154.17144.04
M 16 x 1,5	19/17	21	6	2 x 3	154.17302.04
M 20 x 1,5	22	23	6	6 x 3	154.20306.04
M 20 x 1,5	22	23	6	2 x 5	154.20502.04
M 25 x 1,5	30	25	7	4 x 6	154.25604.04
M 25 x 1,5	30	25	7	3 x 7	154.25703.04
M 32 x 1,5	40	31	8	4 x 9	154.32904.04
M 32 x 1,5	40	31	8	6 x 6,5	154.32656.04
M 40 x 1,5	50	37	8	7 x 9	154.40907.04
M 40 x 1,5	50	37	8	2 x 15	154.40152.04
M 63 x 1,5	68/64	38	10	6 x 12	154.63126.04
M 63 x 1,5	68/64	38	10	3 x 18	154.63183.04
Pg 9	17	21	6	4 x 1,4	154.09144.04
Pg 9	17	21	6	2 x 3	154.09302.04
Pg 11	20	22	6	3 x 3	154.11303.04
Pg 11	20	22	6	2 x 4	154.11402.04
Pg 13,5	22	23	6,5	3 x 4	154.13403.04
Pg 13,5	22	23	6,5	2 x 5	154.13502.04
Pg 16	24	24	6,5	4 x 4	154.16404.04
Pg 16	24	24	6,5	6 x 4	154.16406.04
Pg 16	24	24	6,5	3 x 5,6	154.16563.04
Pg 16	24	24	6,5	2 x 6	154.16602.04
Pg 21	30	25	7	4 x 6	154.21604.04
Pg 21	30	25	7	3 x 7	154.21703.04
Pg 29	40	31	8	6 x 6,5	154.29656.04
Pg 29	40	31	8	4 x 9	154.29904.04
Pg 36	50	37	8	7 x 9	154.36907.04
Pg 36	50	37	8	2 x 15	154.36152.04
Pg 48	64	38	10	6 x 12	154.48126.04
Pg 48	64	38	10	3 x 18	154.48183.04
3/8" NPT	19/17	21	15	4 x 1,4	154.39144.04
3/8" NPT	19/17	21	15	2 x 3	154.39302.04
1/2" NPT	24/22	23	13	2 x 5	154.19502.04
1/2" NPT	24/22	23	13	3 x 4	154.19403.04
3/4" NPT	30	25	13	4 x 6	154.35604.04
3/4" NPT	30	25	13	3 x 7	154.35703.04
1" NPT	40	31	19	6 x 6,5	154.75656.04
1" NPT	40	31	19	4 x 9	154.75904.04



Montagehinweis:

Der Kabeldurchmesser darf 20% des Bohrungsdurchmessers, max. jedoch 1 mm, unterschreiten.

Notice:

Cable diameter should not be less than 20% of hole diameter but the difference between hole and cable diameter should never exceed 1 mm.

Bolzen zum Verschließen nicht gebrauchter Bohrungen siehe Kapitel Zubehör - Serie 683

Plugs for closing of not used holes see chapter accessories - series 683

WAZU-M/KS

Material: Messing vernickelt
Knickschutzspirale: Edelstahl (1.4310)
Klemmeinsatz: PA, VO nach UL94
Dichtung: NBR
O-Ring: NBR
Zugentlastung: nach EN 62444, Ausf. A*
Einsatztemperatur: -40°C bis 100°C
Schutzart: IP 68 - 10 bar/30 min. / IP 69K
im angegebenen Klemmbereich

Material: brass, nickel-plated
Spiral spring: stainless steel (1.4310)
Clamping insert: PA, VO acc. to UL94
Sealing insert: NBR
O-ring: NBR
Strain relief: acc. to EN 62444, version A*
Temperature range: -40°C to 100°C
Protection type: IP 68 - 10 bar/30 min. / IP 69K within the specified clamping range





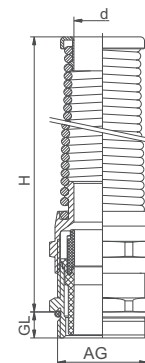
154.50
154.60

* nur metrische Größen
Weitere internationale Zulassungen vorhanden

* only metric sizes
Further international approvals available



Gewinde Entry Thread AG			H mm	d mm	Gew. kurz / Thread short		Gew. lang / Thread long	
					GL mm	HUGRO No.	GL mm	HUGRO No.
M 12 x 1,5	2 - 5	14	55	6,8	6,5	154.1505.50	10	154.1505.60
M 12 x 1,5	3 - 6,5	14	55	6,8	6,5	154.1507.50	10	154.1507.60
M 16 x 1,5	2 - 6	19/17	66	8,2	6	154.1706.50		
M 16 x 1,5	4 - 8	19/17	66	8,2	6	154.1708.50		
M 16 x 1,5	4 - 8	20	77	10,3	6		10	154.1708.60
M 16 x 1,5	5 - 10	20	77	10,3	6	154.1710.50	10	154.1710.60
M 20 x 1,5	5 - 9	22	88	12,3	6	154.2009.50		
M 20 x 1,5	6 - 12	22	88	12,3	6	154.2012.50		
M 20 x 1,5	7 - 12	24	98	14,3	6		10	154.2012.60
M 20 x 1,5	10 - 14	24	98	14,3	6	154.2014.50	10	154.2014.60
M 25 x 1,5	9 - 16	30	111	18,4	7	154.2516.50	12	154.2516.60
M 25 x 1,5	13 - 18	30	111	18,4	7	154.2518.50	12	154.2518.60
Pg 7	2 - 5	14	55	6,8	5	154.0705.50	10	154.0705.60
Pg 7	3 - 6,5	14	55	6,8	5	154.0707.50	10	154.0707.60
Pg 9	2 - 6	17	66	8,2	6	154.0906.50	10	154.0906.60
Pg 9	4 - 8	17	66	8,2	6	154.0908.50	10	154.0908.60
Pg 11	3 - 7	20	77	10,3	6	154.1107.50	10	154.1107.60
Pg 11	5 - 10	20	77	10,3	6	154.1110.50	10	154.1110.60
Pg 13,5	5 - 9	22	88	12,3	6,5	154.1309.50	10	154.1309.60
Pg 13,5	6 - 12	22	88	12,3	6,5	154.1312.50	10	154.1312.60
Pg 16	7 - 12	24	98	14,3	6,5	154.1612.50	10	154.1612.60
Pg 16	10 - 14	24	98	14,3	6,5	154.1614.50	10	154.1614.60
Pg 21	9 - 16	30	111	18,4	7	154.2116.50	12	154.2116.60
Pg 21	13 - 18	30	111	18,4	7	154.2118.50	12	154.2118.60
3/8" NPT	2 - 6	19/17	66	8,2	15	154.3906.50		
3/8" NPT	4 - 8	19/17	66	8,2	15	154.3908.50		
1/2" NPT	5 - 9	24/22	88	12,3	13	154.1909.50		
1/2" NPT	6 - 12	24/22	88	12,3	13	154.1912.50		
3/4" NPT	9 - 16	30	111	18,4	13	154.3516.50		
3/4" NPT	13 - 18	30	111	18,4	13	154.3518.50		



WAZU-MZ

Material: Messing vernickelt
Klemmeinsatz: PA, VO nach UL 94
Dichtung: NBR
O-Ring: NBR
Zugentlastung: nach EN 62444, Ausf. B*
Einsatztemperatur: -40°C bis 100°C
Schutzart: IP 68 - 10 bar/30 min. / IP 69K im angegebenen Klemmbereich

Material: brass, nickel-plated
Clamping insert: PA, VO acc. to UL 94
Sealing insert: NBR
O-ring: NBR
Strain relief: acc. to EN 62444, version B*
Temperature range: -40°C to 100°C
Protection type: IP 68 - 10 bar/30 min. / IP 69K within the specified clamping range



155.00
155.20



* nur metrische Größen

* only metric sizes

Weitere internationale Zulassungen vorhanden

Further international approvals available



Gewinde Entry Thread AG			H mm	Gew. kurz / Thread short		Gew. lang / Thread long	
				GL mm	HUGRO No.	GL mm	HUGRO No.
M 12 x 1,5	3 - 6,5	14	26	6,5	155.1507	10	155.1507.20
M 16 x 1,5	4 - 8	19	28	6	155.1708	10	155.1708.20
M 16 x 1,5	6 - 10	20	30	6	155.1710	10	155.1710.20
M 20 x 1,5	6 - 12	22	33	6	155.2012	10	155.2012.20
M 20 x 1,5	10 - 14	24	33	6	155.2014	10	155.2014.20
M 25 x 1,5	13 - 18	30	37	7	155.2518	12	155.2518.20
M 32 x 1,5	18 - 25	40	43	8	155.3225	12	155.3225.20
M 40 x 1,5	22 - 32	50	50	8	155.4032	15	155.4032.20
M 50 x 1,5	25 - 31	57	51	9	155.5031	15	155.5031.20
M 50 x 1,5	32 - 38	57	51	9	155.5038	15	155.5038.20
M 63 x 1,5	29 - 35	68/64	52	10	155.6335	15	155.6335.20
M 63 x 1,5	37 - 44	68/64	52	10	155.6344	15	155.6344.20
Pg 7	3 - 6,5	14	26	5	155.0707	10	155.0707.20
Pg 9	4 - 8	17	28	6	155.0908	10	155.0908.20
Pg 11	6 - 10	20	30	6	155.1110	10	155.1110.20
Pg 13,5	7 - 12	22	33	6,5	155.1312	10	155.1312.20
Pg 16	10 - 14	24	33	6,5	155.1614	10	155.1614.20
Pg 21	13 - 18	30	37	7	155.2118	12	155.2118.20
Pg 29	18 - 25	40	43	8	155.2925	12	155.2925.20
Pg 36	22 - 32	50	50	8	155.3632	15	155.3632.20
Pg 42	25 - 31	57	51	9	155.4231	15	155.4231.20
Pg 42	32 - 38	57	51	9	155.4238	15	155.4238.20
Pg 48	29 - 35	64	52	10	155.4835	15	155.4835.20
Pg 48	37 - 44	64	52	10	155.4844	15	155.4844.20
3/8" NPT	4 - 8	19/17	28	15	155.3908		
1/2" NPT	6 - 12	24/22	33	13	155.1912		
3/4" NPT	13 - 18	30	37	13	155.3518		
1" NPT	18 - 25	40	43	19	155.7525		

