

Kapitel 2

Kabelverschraubungen – Edelstahl

Cable glands – stainless steel

Kabelverschraubung Kompressionstechnik / cable glands compression

Kabelverschraubung Lamellentechnik / cable glands lamellas



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Progress-S2 + Progress-S2/HT

Material: Edelstahl CrNi (DIN 1.4305)
 Kennzeichen: 1 Rille
 Dichteinsatz: TPE/FPM
 O-Ring: NBR/FPM
 Zugentlastung: nach EN 62444, Ausf. A*
 Einsatztemperatur: TPE: -40 °C bis 100 °C /
 FPM: -40 °C bis 200 °C
 Schutzart: IP 68 (bis 10 bar) / IP 69

Material: stainless steel CrNi (DIN 1.4305)
 identification: 1 groove
 Sealing insert: TPE/FPM
 O-ring: NBR/FPM
 Strain relief: acc. to EN 62444, version A*
 Temperature range: TPE: -40 °C to 100 °C /
 FPM: -40 °C to 200 °C
 Protection type: IP 68 (up to 10 bar) / IP 69

101.30
101.33

* nur metrische Größen

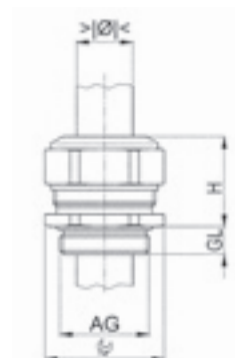
* only metric sizes



Weitere internationale Zulassungen vorhanden

Further international approvals available

Gewinde Entry Thread AG			H mm	GL mm	Progress-S2 TPE HUGRO No.	Progress-S2/HT FPM HUGRO No.
kurzer, einteiliger Dichteinsatz / short, one-piece sealing insert						
M 8 x 1,25	2,5 - 3,5	11	14	10	101.0803.30	101.0803.33
M 8 x 1,25	3,5 - 5	11	14	10	101.0805.30	101.0805.33
M 10 x 1,5	3 - 4	13	15	10	101.1004.30	101.1004.33
M 10 x 1,5	4 - 6	13	15	10	101.1006.30	101.1006.33
M 12 x 1,5	3,5 - 5	17	17	10	101.1505.30	101.1505.33
M 12 x 1,5	5 - 6,5	17	17	10	101.1506.30	101.1506.33
M 12 x 1,5	6,5 - 8	17	17	10	101.1508.30	101.1508.33
M 16 x 1,5	8 - 10,5	19	20	10	101.1710.30	101.1710.33
M 20 x 1,5	11 - 15	24	21	10	101.2015.30	101.2015.33
M 25 x 1,5	16 - 20,5	30	25	11	101.2520.30	101.2520.33
M 32 x 1,5	21 - 25,5	36	28	13	101.3225.30	101.3225.33
M 40 x 1,5	28,5 - 33	46	31	13	101.4033.30	101.4033.33
M 50 x 1,5	37 - 42	55	34	14	101.5042.30	101.5042.33
M 63 x 1,5	46 - 52	70	37	14	101.6352.30	101.6352.33
Pg 7	3,5 - 5	17	17	10	101.0705.30	101.0705.33
Pg 7	5 - 6,5	17	17	10	101.0706.30	101.0706.33
Pg 7	6,5 - 8	17	17	10	101.0708.30	101.0708.33
Pg 9	8 - 10,5	19	20	10	101.0910.30	101.0910.33
Pg 11	8,5 - 12	22	21	10	101.1112.30	101.1112.33
Pg 13,5	11 - 15	24	21	10	101.1315.30	101.1315.33
Pg 16	11 - 15	24	21	10	101.1615.30	101.1615.33
Pg 21	16 - 20,5	30	25	12	101.2120.30	101.2120.33
Pg 29	23 - 27,5	41	28	12	101.2927.30	101.2927.33
Pg 36	30,5 - 35	50	32	15	101.3635.30	101.3635.33
Pg 42	37 - 42	55	34	15	101.4242.30	101.4242.33
Pg 48	43 - 49	65	37	15	101.4849.30	101.4849.33
kurzer, zweiteiliger Dichteinsatz / short, two-piece sealing insert						
M 16 x 1,5	6 - 10,5	19	20	10	101.1702.30	101.1702.33
M 20 x 1,5	8 - 15	24	21	10	101.2002.30	101.2002.33
M 25 x 1,5	12,5 - 20,5	30	25	11	101.2502.30	101.2502.33
M 32 x 1,5	17 - 25,5	36	28	13	101.3202.30	101.3202.33
M 40 x 1,5	24 - 33	46	31	13	101.4002.30	101.4002.33
M 50 x 1,5	33 - 42	55	34	14	101.5002.30	101.5002.33
M 63 x 1,5	40 - 52	70	37	14	101.6302.30	101.6302.33
Pg 9	6 - 10,5	19	20	10	101.0902.30	101.0902.33
Pg 11	5,5 - 12	22	21	10	101.1102.30	101.1102.33
Pg 13,5	8 - 15	24	21	10	101.1302.30	101.1302.33
Pg 16	8 - 15	24	21	10	101.1602.30	101.1602.33
Pg 21	12,5 - 20,5	30	25	12	101.2102.30	101.2102.33
Pg 29	19 - 27,5	41	28	12	101.2902.30	101.2902.33
Pg 36	26 - 35	50	32	15	101.3602.30	101.3602.33
Pg 42	33 - 42	55	34	15	101.4202.30	101.4202.33
Pg 48	37 - 49	65	37	15	101.4802.30	101.4802.33



Progress-S4/HT

Material: Edelstahl CrNiMo (DIN 1.4435)
 Kennzeichen: 2 Rillen
 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

* nur metrische Größen

Weitere internationale Zulassungen vorhanden

Material: stainless steel CrNiMo (DIN 1.4435)
 identification: 2 grooves
 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

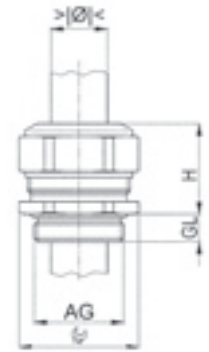
* only metric sizes

Further international approvals available

101.43



Gewinde Entry Thread AG	 mm	 mm	H mm	GL mm	HUGRO No.
kurzer, einteiliger Dichteinsatz / short, one-piece sealing insert					
M 8 x 1,25	2,5 - 3,5	11	14	10	101.0803.43
M 8 x 1,25	3,5 - 5	11	14	10	101.0805.43
M 10 x 1,5	3 - 4	13	15	10	101.1004.43
M 10 x 1,5	4 - 6	13	15	10	101.1006.43
M 12 x 1,5	3,5 - 5	17	17	10	101.1505.43
M 12 x 1,5	5 - 6,5	17	17	10	101.1506.43
M 12 x 1,5	6,5 - 8	17	17	10	101.1508.43
M 16 x 1,5	8 - 10,5	19	20	10	101.1710.43
M 20 x 1,5	11 - 15	24	21	10	101.2015.43
M 25 x 1,5	16 - 20,5	30	25	11	101.2520.43
M 32 x 1,5	21 - 25,5	36	28	13	101.3225.43
M 40 x 1,5	28,5 - 33	46	31	13	101.4033.43
M 50 x 1,5	37 - 42	55	34	14	101.5042.43
M 63 x 1,5	46 - 52	70	37	14	101.6352.43
Pg 7	3,5 - 5	17	17	10	101.0705.43
Pg 7	5 - 6,5	17	17	10	101.0706.43
Pg 7	6,5 - 8	17	17	10	101.0708.43
Pg 9	8 - 10,5	19	20	10	101.0910.43
Pg 11	8,5 - 12	22	21	10	101.1112.43
Pg 13,5	11 - 15	24	21	10	101.1315.43
Pg 16	11 - 15	24	21	10	101.1615.43
Pg 21	16 - 20,5	30	25	12	101.2120.43
Pg 29	23 - 27,5	41	28	12	101.2927.43
Pg 36	30,5 - 35	50	32	15	101.3635.43
Pg 42	37 - 42	55	34	15	101.4242.43
Pg 48	43 - 49	65	37	15	101.4849.43
kurzer, zweiteiliger Dichteinsatz / short, two-piece sealing insert					
M 16 x 1,5	6 - 10,5	19	20	10	101.1702.43
M 20 x 1,5	8 - 15	24	21	10	101.2002.43
M 25 x 1,5	12,5 - 20,5	30	25	11	101.2502.43
M 32 x 1,5	17 - 25,5	36	28	13	101.3202.43
M 40 x 1,5	24 - 33	46	31	13	101.4002.43
M 50 x 1,5	33 - 42	55	34	14	101.5002.43
M 63 x 1,5	40 - 52	70	37	14	101.6302.43
Pg 9	6 - 10,5	19	20	10	101.0902.43
Pg 11	5,5 - 12	22	21	10	101.1102.43
Pg 13,5	8 - 15	24	21	10	101.1302.43
Pg 16	8 - 15	24	21	10	101.1602.43
Pg 21	12,5 - 20,5	30	25	12	101.2102.43
Pg 29	19 - 27,5	41	28	12	101.2902.43
Pg 36	26 - 35	50	32	15	101.3602.43
Pg 42	33 - 42	55	34	15	101.4202.43
Pg 48	37 - 49	65	37	15	101.4802.43



Material:	Edelstahl (1.4571)	Material:	stainless steel (AISI 316Ti)
Dichteinsatz:	TPE blau	Sealing insert:	TPE blue
O-Ring:	Silikon	O-ring:	Silicone
Zugentlastung:	nach EN 62444, Ausf. B	Strain relief:	acc. to EN 62444, version B
Einsatztemperatur:	-40 °C bis + 130 °C	Temperature range:	-40 °C to +130 °C
Schutzart:	IP 68 (bis 15bar) / IP 69	Protection type:	IP 68 (up to 15 bar) / IP 69
NEMA Type rating:	4X	NEMA Type rating:	4X

103.40
103.60



Technical drawing of a bolted connection. The drawing shows a bolt and nut assembly. Dimensions are indicated: AG for the bolt length, H for the nut height, and GL for the washer thickness. A force $>10kN$ is applied to the bolt head.

M 12 x 1,5	2 - 8	2 - 5	17	21	15	103.150808.60
M 16 x 1,5	4 - 11	4 - 7	20	25	15	103.171111.60
M 20 x 1,5	5 - 14	5 - 9	24	29	15	103.201414.60
M 25 x 1,5	11 - 20	11 - 16	30	30	15	103.252020.60
M 32 x 1,5	15 - 25	15 - 20	36	32	15	103.322525.60
M 40 x 1,5	20 - 32	20 - 26	45	35	15	103.403232.60
M 50 x 1,5	31 - 42	31 - 35	57	39	15	103.504242.60
M 63 x 1,5	41 - 54	41 - 46	68	40	15	103.635454.60



WAZU-S + WAZU-SV

Material: Edelstahl (1.4305)
 Klemmeinsatz: PA, VO nach UL 94 / PA / PVDF
 Dichtung: NBR / FKM
 O-Ring: NBR / FKM
 Zugentlastung: nach EN 62444, Ausf. A*
 Einsatztemperatur: NBR: -40 °C bis 100 °C /
 FKM: -35 °C bis 150 °C
 Schutzart: IP 68 - 10 bar/30 min / IP 69K
 im angegebenen Klemmbereich

Material: stainless steel (1.4305)
 Clamping insert: PA, VO acc. to UL 94 / PA / PVDF
 Sealing insert: NBR / FKM
 O-ring: NBR / FKM
 Strain relief: acc. to EN 62444, version A*
 Temperature range: NBR: -40 °C to 100 °C /
 FKM: -35 °C to 150 °C
 Protection type: IP 68 - 10 bar/30 min / IP 69K
 within the specified clamping range

156.00

156.03

* nur metrische Größen

Weitere internationale Zulassungen vorhanden

* only metric sizes

Further international approvals available



Gewinde Entry Thread AG	mm	mm	H mm	GL mm	WAZU-S NBR HUGRO No.	WAZU-SV FKM HUGRO No.
M 12 x 1,5	2 - 5	14	19	5	156.1505	156.1505.03
M 12 x 1,5	3 - 6,5	14	19	5	156.1507	156.1507.03
M 16 x 1,5	3 - 7	22	22	6	156.1707	156.1707.03
M 16 x 1,5	5 - 10	22	22	6	156.1710	156.1710.03
M 20 x 1,5	7 - 12	24	24	6	156.2012	156.2012.03
M 20 x 1,5	10 - 14	24	24	6	156.2014	156.2014.03
M 25 x 1,5	9 - 16	30	25	7	156.2516	156.2516.03
M 25 x 1,5	13 - 18	30	25	7	156.2518	156.2518.03
M 32 x 1,5	13 - 20	41	31	8	156.3220	156.3220.03
M 32 x 1,5	18 - 25	41	31	8	156.3225	156.3225.03
M 40 x 1,5	20 - 26	50	37	8	156.4026	156.4026.03
M 40 x 1,5	22 - 32	50	37	8	156.4032	156.4032.03
M 50 x 1,5	25 - 31	60	37	9	156.5031	
M 50 x 1,5	32 - 38	60	37	9	156.5038	
M 63 x 1,5	29 - 35	68/64	38	10	156.6335	
M 63 x 1,5	37 - 44	68/64	38	10	156.6344	
Pg 7	2 - 5	14	19	5	156.0705	156.0705.03
Pg 7	3 - 6,5	14	19	5	156.0707	156.0707.03
Pg 9	2 - 6	17	21	6	156.0906	156.0906.03
Pg 9	4 - 8	17	21	6	156.0908	156.0908.03
Pg 11	3 - 7	22	22	6	156.1107	156.1107.03
Pg 11	5 - 10	22	22	6	156.1110	156.1110.03
Pg 13,5	5 - 9	22	23	6,5	156.1309	156.1309.03
Pg 13,5	6 - 12	22	23	6,5	156.1312	156.1312.03
Pg 16	7 - 12	24	24	6,5	156.1612	156.1612.03
Pg 16	10 - 14	24	24	6,5	156.1614	156.1614.03
Pg 21	9 - 16	30	25	7	156.2116	156.2116.03
Pg 21	13 - 18	30	25	7	156.2118	156.2118.03
Pg 29	13 - 20	41	31	8	156.2920	156.2920.03
Pg 29	18 - 25	41	31	8	156.2925	156.2925.03
Pg 36	20 - 26	50	37	8	156.3626	156.3626.03
Pg 36	22 - 32	50	37	8	156.3632	156.3632.03
3/8" NPT	2 - 6	19/17	21	15	156.3906	
3/8" NPT	4 - 8	19/17	21	15	156.3908	
1/2" NPT	5 - 9	24/22	24	13	156.1909	
1/2" NPT	6 - 12	24/22	24	13	156.1912	
3/4" NPT	9 - 16	30	25	13	156.3516	
3/4" NPT	13 - 18	30	25	13	156.3518	
1" NPT	13 - 20	41	31	19	156.7520	
1" NPT	18 - 25	41	31	19	156.7525	

