

Progress-M/EX

Material: Messing vernickelt
 Dichteinsatz: TPE
 O-Ring: NBR
 Einsatztemperatur: -40 °C bis 100 °C
 Schutzart: IP 68/IP 69K

Material: brass, nickel-plated
 Sealing insert: TPE
 O-ring: NBR
 Temperature range: -40 °C to 100 °C
 Protection type: IP 68/IP 69K

101.10
101.60

Zertifikate: PTB 02 ATEX 1126 X
 IECEx SEV 12.0002X

Certificates: PTB 02 ATEX 1126 X
 IECEx SEV 12.0002X



Weitere internationale Zulassungen vorhanden

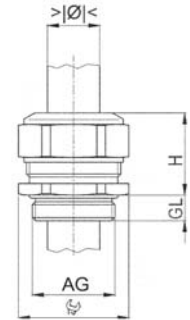
Further international approvals available



ATEX II 2GD
Ex e II
Ex tD A21 IP 68



Gewinde Entry Thread AG			H mm	GL mm	Progress MS EX	HUGRO No.
kurzes Anschlussgewinde / short entry thread						
M 8 x 1,25	3 - 3,5	11	14	5	EX1000.08.035	101.0803.10
M 8 x 1,25	4 - 5	11	14	5	EX1000.08.050	101.0805.10
M 10 x 1,5	3 - 4	13	15	5	EX1000.10.040	101.1004.10
M 10 x 1,5	4,5 - 6	13	15	5	EX1000.10.060	101.1006.10
M 12 x 1,5	5 - 6,5	15	17	5	EX1000.12.065	101.1506.10
M 12 x 1,5	6,5 - 8	15	17	5	EX1000.12.080	101.1508.10
M 16 x 1,5	4,5 - 6	18	20	5	EX1000.17.060	101.1706.10
M 16 x 1,5	6 - 8	18	20	5	EX1000.17.080	101.1708.10
M 20 x 1,5	6 - 8	24	21	6	EX1000.20.080	101.2008.10
M 20 x 1,5	8 - 11	24	21	6	EX1000.20.110	101.2011.10
M 25 x 1,5	9,5 - 12,5	30	25	7	EX1000.25.125	101.2512.10
M 25 x 1,5	12,5 - 16	30	25	7	EX1000.25.160	101.2516.10
M 32 x 1,5	14 - 17	36	28	8	EX1000.32.170	101.3217.10
M 32 x 1,5	17 - 21	36	28	8	EX1000.32.210	101.3221.10
M 40 x 1,5	20 - 24	46	31	8	EX1000.40.240	101.4024.10
M 40 x 1,5	24 - 28,5	46	31	8	EX1000.40.285	101.4028.10
langes Anschlussgewinde / long entry thread						
M 8 x 1,25	3 - 3,5	11	14	10	EX1100.08.035	101.0803.60
M 8 x 1,25	4 - 5	11	14	10	EX1100.08.050	101.0805.60
M 10 x 1,5	3 - 4	13	15	10	EX1100.10.040	101.1004.60
M 10 x 1,5	4,5 - 6	13	15	10	EX1100.10.060	101.1006.60
M 12 x 1,5	5 - 6,5	15	17	10	EX1100.12.065	101.1506.60
M 12 x 1,5	6,5 - 8	15	17	10	EX1100.12.080	101.1508.60
M 16 x 1,5	4,5 - 6	18	20	10	EX1100.17.060	101.1706.60
M 16 x 1,5	6 - 8	18	20	10	EX1100.17.080	101.1708.60
M 20 x 1,5	6 - 8	24	21	10	EX1100.20.080	101.2008.60
M 20 x 1,5	8 - 11	24	21	10	EX1100.20.110	101.2011.60
M 25 x 1,5	9,5 - 12,5	30	25	11	EX1100.25.125	101.2512.60
M 25 x 1,5	12,5 - 16	30	25	11	EX1100.25.160	101.2516.60
M 32 x 1,5	14 - 17	36	28	13	EX1100.32.170	101.3217.60
M 32 x 1,5	17 - 21	36	28	13	EX1100.32.210	101.3221.60
M 40 x 1,5	20 - 24	46	31	13	EX1100.40.240	101.4024.60
M 40 x 1,5	24 - 28,5	46	31	13	EX1100.40.285	101.4028.60



Progress-M/EX (Pg)

Material: Messing vernickelt
 Dichteinsatz: TPE
 O-Ring: NBR
 Einsatztemperatur: -40 °C bis 100 °C
 Schutzart: IP 68/IP 69K

Material: brass, nickel-plated
 Sealing insert: TPE
 O-ring: NBR
 Temperature range: -40 °C to 100 °C
 Protection type: IP 68/IP 69K

101.10
101.60

Zertifikate: PTB 02 ATEX1126X
 IECEx SEV 12.0002 X



Certificates: PTB 02 ATEX 1126 X
 IECEx SEV 12.0002 X

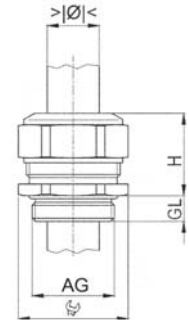
Weitere internationale Zulassungen vorhanden

Further international approvals available



CE
ATEX II 2GD
Ex e II
Ex tD A21 IP 68

Gewinde Entry Thread AG			H mm	GL mm	Progress MS EX	HUGRO No.
kurzes Anschlussgewinde / short entry thread						
Pg 7	5 - 6,5	15	17	6	EX1000.07.065	101.0706.10
Pg 7	6,5 - 8	15	17	6	EX1000.07.080	101.0708.10
Pg 9	4,5 - 6	18	20	6	EX1000.09.060	101.0906.10
Pg 9	6 - 8	18	20	6	EX1000.09.080	101.0908.10
Pg 11	4 - 5,5	21	21	6	EX1000.11.055	101.1105.10
Pg 11	5,5 - 8,5	21	21	6	EX1000.11.085	101.1108.10
Pg 13,5	6 - 8	24	21	6	EX1000.13.080	101.1308.10
Pg 13,5	8 - 11	24	21	6	EX1000.13.110	101.1311.10
Pg 16	6 - 8	24	21	6	EX1000.16.080	101.1608.10
Pg 16	8 - 11	24	21	6	EX1000.16.110	101.1611.10
Pg 21	9,5 - 12,5	30	25	7,5	EX1000.21.125	101.2112.10
Pg 21	12,5 - 16	30	25	7,5	EX1000.21.160	101.2116.10
Pg 29	16 - 19	38	28	8	EX1000.29.190	101.2919.10
Pg 29	19 - 23	38	28	8	EX1000.29.230	101.2923.10
Pg 36	21,5 - 26	50	32	8	EX1000.36.260	101.3626.10
Pg 36	26 - 30,5	50	32	8	EX1000.36.305	101.3630.10
langes Anschlussgewinde / long entry thread						
Pg 7	5 - 6,5	15	17	10	EX1100.07.065	101.0706.60
Pg 7	6,5 - 8	15	17	10	EX1100.07.080	101.0708.60
Pg 9	4,5 - 6	18	20	10	EX1100.09.060	101.0906.60
Pg 9	6 - 8	18	20	10	EX1100.09.080	101.0908.60
Pg 11	4 - 5,5	21	21	10	EX1100.11.055	101.1105.60
Pg 11	5,5 - 8,5	21	21	10	EX1100.11.085	101.1108.60
Pg 13,5	6 - 8	24	21	10	EX1100.13.080	101.1308.60
Pg 13,5	8 - 11	24	21	10	EX1100.13.110	101.1311.60
Pg 16	6 - 8	24	21	10	EX1100.16.080	101.1608.60
Pg 16	8 - 11	24	21	10	EX1100.16.110	101.1611.60
Pg 21	9,5 - 12,5	30	25	12	EX1100.21.125	101.2112.60
Pg 21	12,5 - 16	30	25	12	EX1100.21.160	101.2116.60
Pg 29	16 - 19	38	28	12	EX1100.29.190	101.2919.60
Pg 29	19 - 23	38	28	12	EX1100.29.230	101.2923.60
Pg 36	21,5 - 26	50	32	15	EX1100.36.260	101.3626.60
Pg 36	26 - 30,5	50	32	15	EX1100.36.305	101.3630.60



Kabelverschraubungen mit mehreren Durchführungen

Progress-M / MF-EX

Cable Glands with multi-held insert



Qualität aus Waldkirch

Material: Messing vernickelt
Dichteinsatz: TPE/NBR¹⁾
O-Ring: NBR
Einsatztemperatur: -40 °C bis 100 °C
Schutzart: IP 68

Material: brass, nickel-plated
Sealing insert: TPE/NBR¹⁾
O-ring: NBR
Temperature range: -40 °C to 100 °C
Protection type: IP 68

101.14

Zertifikate: PTB 02 ATEX1126X
IECEX SEV 12.0002 X

Certificates: PTB 02 ATEX 1126 X
IECEX SEV 12.0002 X



IECEX Zulassung in Vorbereitung

IECEX approval in preparation

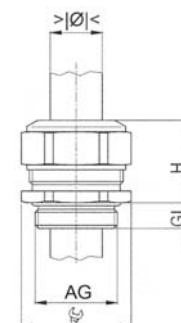
Weitere internationale Zulassungen vorhanden

Further international approvals available



Ex e II
Ex tD A21 IP 68

Gewinde Entry Thread AG				H mm	GL mm	Progress MS Multi EX	HUGRO No.
M 12 x 1,5	0,6 - 1,0 ¹⁾	3	15	17	5	EX1310.12.3.010	101.15103.14 ¹⁾
M 16 x 1,5	1,0 - 1,5 ¹⁾	4	18	20	5	EX1310.17.4.015	101.17154.14 ¹⁾
M 16 x 1,5	2,0 - 3,0	2	18	20	5	EX1310.17.2.030	101.17302.14
M 20 x 1,5	2,5 - 3,0	6	24	21	6	EX1310.20.6.030	101.20306.14
M 20 x 1,5	3,5 - 5,0	2	24	21	6	EX1310.20.2.050	101.20502.14
M 20 x 1,5	3,5 - 5,0	4	24	21	6	EX1310.20.4.050	101.20504.14
M 20 x 1,5	4,5 - 6,0	3	24	21	6	EX1310.20.3.060	101.20603.14
M 20 x 1,5	5,5 - 7,5	2	24	21	6	EX1310.20.2.075	101.20752.14
M 25 x 1,5	5,0 - 6,0	6	30	25	7	EX1310.25.6.060	101.25606.14
M 25 x 1,5	6,0 - 7,0	3	30	25	7	EX1310.25.3.070	101.25703.14
M 25 x 1,5	5,5 - 7,0	4	30	25	7	EX1310.25.4.070	101.25704.14
M 25 x 1,5	7,5 - 9,0	3	30	25	7	EX1310.25.3.090	101.25903.14
M 25 x 1,5	8,0 - 10,0	2	30	25	7	EX1310.25.2.100	101.25102.14
M 32 x 1,5	6,0 - 10,0	6	36	28	8	EX1310.32.6.070	101.32706.14
M 32 x 1,5	7,5 - 9,0	4	36	28	8	EX1310.32.4.090	101.32904.14
M 40 x 1,5	8,0 - 9,0 ¹⁾	7	46	31	8	EX1310.40.7.090	101.40907.14 ¹⁾
M 40 x 1,5	14,0 - 15,0 ¹⁾	2	46	31	8	EX1310.40.2.150	101.40152.14 ¹⁾
M 50 x 1,5	9,0 - 10,0 ¹⁾	4	55	34	9	EX1310.50.4.100	101.50104.14 ¹⁾
M 63 x 1,5	11,0 - 12,0 ¹⁾	6	70	37	9	EX1310.63.6.120	101.63126.14 ¹⁾
M 63 x 1,5	17,0 - 18,0 ¹⁾	3	70	37	9	EX1310.63.3.180	101.63183.14 ¹⁾



Eigenschaften:

¹⁾ NBR-Dichteinsatz

Characteristics:

¹⁾ NBR-sealing

Progress-M / MF-EX (Pg)

Material: Messing vernickelt
 Dichteinsatz: TPE/NBR¹⁾
 Einsatztemperatur: -40 °C bis 100 °C
 Schutzart: IP 68

Material: brass, nickel-plated
 Sealing insert: TPE/NBR¹⁾
 Temperature range: -40 °C to 100 °C
 Protection type: IP 68

101.14

Zertifikate: PTB 02 ATEX1126X
 IECEx SEV 12.0002 X

Certificates: PTB 02 ATEX1126X
 IECEx SEV 12.0002 X

IECEX Zulassung in Vorbereitung




IECEX approval in preparation

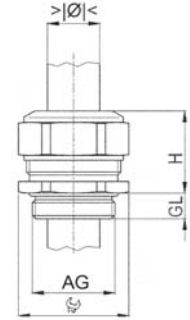
Weitere internationale Zulassungen vorhanden

Further international approvals available



Ex e II
 Ex tD A21 IP 68

Gewinde Entry Thread AG				H mm	GL mm	Progress MS Multi EX	HUGRO No.
kurzes Anschlussgewinde / short entry thread							
Pg 9	1,0 - 1,5 ¹⁾	4	18	20	6	EX1310.09.4.015	101.09154.14¹⁾
Pg 9	2,0 - 3,0	2	18	20	6	EX1310.09.2.030	101.09302.14
Pg 11	2,0 - 3,0 ¹⁾	3	21	21	6	EX1310.11.3.030	101.11303.14¹⁾
Pg 11	3,0 - 4,0 ¹⁾	2	21	21	6	EX1310.11.2.030	101.11402.14¹⁾
Pg 11	3,5 - 5,0	2	21	21	6	EX1310.11.2.050	101.11502.14
Pg 13	2,5 - 4,0 ¹⁾	2	24	23	6	EX1310.13.3.040	101.13403.14¹⁾
Pg 13	3,5 - 5,0	2	24	23	6	EX1310.13.2.050	101.13502.14
Pg 16	2,5 - 3,0	6	24	23	6	EX1310.16.6.030	101.16306.14
Pg 16	3,0 - 4,0 ¹⁾	6	24	23	6	EX1310.16.6.040	101.16406.14¹⁾
Pg 16	4,5 - 6,0	2	24	23	6	EX1310.16.2.060	101.16602.14
Pg 16	4,5 - 6,0	3	24	23	6	EX1310.16.3.060	101.16603.14
Pg 21	5,5 - 7,0	3	30	28	7	EX1310.21.4.070	101.21704.14
Pg 21	7,5 - 9,0	3	30	28	7	EX1310.21.3.090	101.21903.14
Pg 29	5,5 - 6,5 ¹⁾	6	38	28	8	EX1310.29.6.065	101.29656.14¹⁾
Pg 29	8,0 - 9,0 ¹⁾	3	38	28	8	EX1310.29.3.090	101.29903.14¹⁾
Pg 36	9,0 - 10,0 ¹⁾	4	50	32	8	EX1310.36.4.100	101.36104.14¹⁾
Pg 36	14,0 - 15,0 ¹⁾	2	50	32	8	EX1310.36.2.150	101.36152.14¹⁾
Pg 48	11,0 - 12,0 ¹⁾	6	65	37	11	EX1310.48.6.120	101.48126.14¹⁾
Pg 48	17,0 - 18,0 ¹⁾	3	65	37	11	EX1310.48.63.180	101.48183.14¹⁾



Eigenschaft:
¹⁾ NBR-Dichteinsatz

Characteristics:
¹⁾ NBR-sealing

Progress-EMV / EX

Material: Messing vernickelt
 Dichteinsatz: TPE
 O-Ring: NBR
 Einsatztemperatur: -40 °C bis 100 °C
 Schutzart: IP 68/IP 69K

Material: brass, nickel-plated
 Sealing insert: TPE
 O-ring: NBR
 Temperature range: -40 °C to 100 °C
 Protection type: IP 68/IP 69K

107.10

Zertifikate: PTB 02 ATEX 1126 X
 IECEx SEV 12.0002 X

Certificates: PTB 02 ATEX 1126 X
 IECEx SEV 12.0002 X

Weitere internationale Zulassungen vorhanden

Further international approvals available



ATEX II 2GD
Ex e II
Ex tD A21 IP 68



Gewinde Entry Thread AG	∅k mm	H mm	GL mm	Progress MS EMV EX	HUGRO No.
M 8 x 1,25	2,5 - 3,5	11	14	5	EX1080.08.035 107.0803.10
M 8 x 1,25	3 - 4	11	14	5	EX1080.08.040 107.0804.10
M 10 x 1,5	3 - 4	13	15	5	EX1080.10.040 107.1004.10
M 10 x 1,5	4 - 6	13	15	5	EX1080.10.060 107.1006.10
M 12 x 1,5	4,5 - 6	15	17	5	EX1080.12.060 107.1506.10
M 12 x 1,5	6 - 7,5	15	17	5	EX1080.12.075 107.1507.10
M 16 x 1,5	6 - 8	18	20	5	EX1080.17.080 107.1708.10
M 16 x 1,5	8 - 10	18	22	5	EX1080.17.100 107.1710.10
M 20 x 1,5	8 - 11	24	21	6	EX1080.20.110 107.2011.10
M 20 x 1,5	12,5 - 14	24	23	6	EX1080.20.140 107.2014.10
M 25 x 1,5	13 - 16	30	25	7	EX1080.25.160 107.2516.10
M 25 x 1,5	17 - 19	30	28	7	EX1080.25.190 107.2519.10
M 32 x 1,5	17 - 21	36	29	8	EX1080.32.210 107.3221.10
M 40 x 1,5	23 - 28,5	46	31	8	EX1080.40.285 107.4028.10
Pg 7	4,5 - 6	15	17	6	EX1080.07.060 107.0706.10
Pg 7	6 - 7,5	15	17	6	EX1080.07.075 107.0707.10
Pg 9	6 - 8	18	20	6	EX1080.09.080 107.0908.10
Pg 9	8 - 10	18	22	6	EX1080.09.100 107.0910.10
Pg 11	5,5 - 8,5	21	21	6	EX1080.11.085 107.1108.10
Pg 11	8,5 - 12	21	21	6	EX1080.11.120 107.1112.10
Pg 13,5	8 - 11	24	21	6	EX1080.13.110 107.1311.10
Pg 13,5	12,5 - 14	24	23	6	EX1080.13.140 107.1314.10
Pg 16	8 - 11	24	21	6	EX1080.16.110 107.1611.10
Pg 16	12,5 - 14	24	23	6	EX1080.16.140 107.1614.10
Pg 21	13 - 16	30	25	7,5	EX1080.21.160 107.2116.10
Pg 21	17 - 19	30	28	7,5	EX1080.21.190 107.2119.10
Pg 29	19 - 23	38	29	8	EX1080.29.230 107.2923.10
Pg 29	23 - 25,5	38	29	8	EX1080.29.255 107.2925.10
Pg 36	25 - 30,5	50	32	8	EX1080.36.305 107.3630.10

Auf Anfrage:

- mit langem Anschlussgewinde

On request:

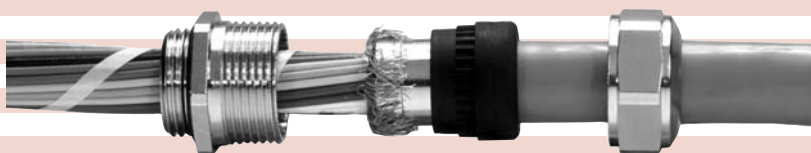
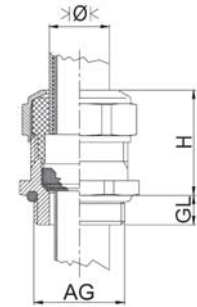
- with long entry thread

Eigenschaften:

- einfache, schnelle und sichere Montage
- sehr guter Schirmkontakt 360° über Kontakthülse
- konstante Kontaktqualität mit kleinster Kopplungsimpedanz

Characteristics:

- easy, fast and safe to install
- efficient 360° shield contact with contact socket
- constant contact quality with low impedance



Progress-M / ZE-EX

Material: Messing vernickelt
Schrauben: rostfreier Stahl A2
Dichteinsatz: TPE (zweiteilig)
O-Ring: NBR
Einsatztemperatur: -40 °C bis 100 °C
Schutzart: IP 68 / IP 69K

Material: brass, nickel-plated
Screws: stainless steel A2
Sealing insert: TPE (two-piece)
O-ring: NBR
Temperature range: -40 °C to 100 °C
Protection type: IP 68 / IP 69K

144.10

Zertifikate: PTB 02 ATEX 1125
PTB 02 ATEX 1126 X *
IECEX SEV 12.0001
IECEX SEV 12.0002 *

Certificates: PTB 02 ATEX 1125
PTB 02 ATEX 1126 X *
IECEX SEV 12.0001
IECEX SEV 12.0002 *

Weitere internationale Zulassungen vorhanden

Further international approvals available



Entry Thread GL	Progress	HUGRO No.	H			
M 12 x 1,5	5 - 6,5	15/16	26	5	EX1803.12.03.065	144.1506.10 *
M 12 x 1,5	6,5 - 8	15/16	26	5	EX1803.12.03.080	144.1508.10 *
M 16 x 1,5	6 - 10,5	18/19	30	5	EX1803.17	144.1702.10
M 20 x 1,5	8 - 15	24	31	6	EX1803.20	144.2002.10
M 25 x 1,5	12,5 - 20,5	30	35	7	EX1803.25	144.2502.10
M 32 x 1,5	17 - 25,5	36	40	8	EX1803.32	144.3202.10
M 40 x 1,5	24 - 33	46	44	8	EX1803.40	144.4002.10
M 50 x 1,5	33 - 42	55	49	9	EX1803.50	144.5002.10
M 63 x 1,5	40 - 52	70	55	10	EX1803.63	144.6302.10
Pg 7	5 - 6,5	15/16	26	6	EX1803.07.03.065	144.0706.10 *
Pg 7	6,5 - 8	15/16	26	6	EX1803.07.03.080	144.0708.10 *
Pg 9	6 - 10,5	18/19	30	6	EX1803.09	144.0902.10
Pg 11	5,5 - 12	21	31	6	EX1803.11	144.1102.10
Pg 13,5	8 - 15	24	31	6	EX1803.13	144.1302.10
Pg 16	8 - 15	24	31	6	EX1803.16	144.1602.10
Pg 21	12,5 - 20,5	30	35	7,5	EX1803.21	144.2102.10
Pg 29	19 - 27,5	38	40	8	EX1803.29	144.2902.10
Pg 36	26 - 35	50	47	8	EX1803.36	144.3602.10
Pg 42	33 - 42	55	49	10	EX1803.42	144.4202.10
Pg 48	37 - 49	65	51	11	EX1803.48	144.4802.10

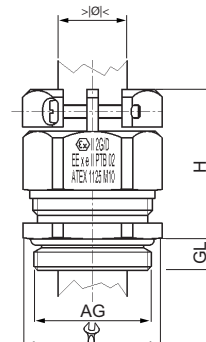
*) einteiliger Dichteinsatz / one-piece sealing

Auf Anfrage:

- mit langem Anschlussgewinde
- aus rostfreiem Stahl 1.4305 oder 1.4435

On request:

- with long entry thread
- made of stainless steel 1.4305 or 1.4435



Kabelverschraubungen mit Zugentlastung, EMV-gerecht

Progress-EMV/ZE-EX

Cable Glands with traction relief, EMC protection



Qualität aus Waldkirch

Material: Messing vernickelt
Schrauben: rostfreier Stahl A2
Dichtensatz: TPE
O-Ring: NBR
Einsatztemperatur: -40 °C bis 100 °C
Schutzart: IP 68/IP 69K

Material: brass, nickel-plated
Screws: stainless steel A2
Sealing insert: TPE
O-ring: NBR
Temperature range: -40 °C to 100 °C
Protection type: IP 68/IP 69K

148.10



Zertifikate: PTB 02 ATEX 1125
PTB 02 ATEX 1126 X *
IECEX SEV 12.0001
IECEX SEV 12.0002 *

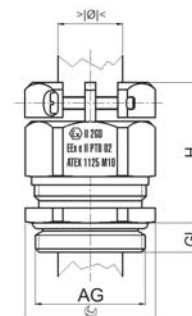
Certificates: PTB 02 ATEX 1125
PTB 02 ATEX 1126 X *
IECEX SEV 12.0001
IECEX SEV 12.0002 *

Weitere internationale Zulassungen vorhanden

Further international approvals available



Gewinde Entry Thread AG	 mm	 mm	H mm	GL mm	Progress MS EMV KB EX	HUGRO No.
M 12 x 1,5	4,5 - 6	15/16	26	5	EX1803.80.12.060	148.1506.10 *
M 12 x 1,5	6 - 7,5	15/16	26	5	EX1803.80.12.075	148.1507.10 *
M 16 x 1,5	6 - 8	18/19	30	5	EX1803.80.17.080	148.1708.10
M 16 x 1,5	8 - 10	18/19	30	5	EX1803.80.17.100	148.1710.10
M 20 x 1,5	8 - 11	24	31	6	EX1803.80.20.110	148.2011.10
M 20 x 1,5	11 - 14	24	31	6	EX1803.80.20.140	148.2014.10
M 25 x 1,5	13 - 16	30	35	7	EX1803.80.25.160	148.2516.10
M 25 x 1,5	16 - 19	30	35	7	EX1803.80.25.190	148.2519.10
M 32 x 1,5	18 - 21	36	40	8	EX1803.80.32.210	148.3221.10
M 32 x 1,5	21 - 25	36	40	8	EX1803.80.32.250	148.3225.10
M 40 x 1,5	24 - 28,5	46	44	8	EX1803.80.40.285	148.4028.10
M 40 x 1,5	28,5 - 32	46	44	8	EX1803.80.40.320	148.4032.10
M 50 x 1,5	33 - 37	55	49	9	EX1803.80.50.370	148.5037.10
M 50 x 1,5	37 - 41	55	49	9	EX1803.80.50.410	148.5041.10
M 63 x 1,5	40 - 46	70	55	10	EX1803.80.63.460	148.6346.10
M 63 x 1,5	46 - 50	70	55	10	EX1803.80.63.500	148.6350.10
Pg 7	4,5 - 6	15/16	26	6	EX1803.80.07.060	148.0706.10 *
Pg 7	6 - 7,5	15/16	26	6	EX1803.80.07.075	148.0707.10 *
Pg 9	6 - 8	18/19	30	6	EX1803.80.09.080	148.0908.10
Pg 9	8 - 10	18/19	30	6	EX1803.80.09.100	148.0910.10
Pg 11	5,5 - 8,5	21	31	6	EX1803.80.11.085	148.1108.10
Pg 11	8,5 - 12	21	31	6	EX1803.80.11.120	148.1112.10
Pg 13,5	8 - 11	24	31	6	EX1803.80.13.110	148.1311.10
Pg 13,5	11 - 14	24	31	6	EX1803.80.13.140	148.1314.10
Pg 16	8 - 11	24	31	6	EX1803.80.16.110	148.1611.10
Pg 16	11 - 14	24	31	6	EX1803.80.16.140	148.1614.10
Pg 21	13 - 16	30	35	7,5	EX1803.80.21.160	148.2116.10
Pg 21	16 - 19	30	35	7,5	EX1803.80.21.190	148.2119.10
Pg 29	19 - 23	38	40	8	EX1803.80.29.230	148.2923.10
Pg 29	23 - 25,5	38	40	8	EX1803.80.29.255	148.2925.10
Pg 36	25 - 30,5	50	47	8	EX1803.80.36.305	148.3630.10
Pg 36	30,5 - 35	50	47	8	EX1803.80.36.350	148.3635.10
Pg 42	33 - 37	55	49	10	EX1803.80.42.370	148.4237.10
Pg 42	37 - 41	55	49	10	EX1803.80.42.410	148.4241.10
Pg 48	39 - 43	65	51	11	EX1803.80.48.430	148.4843.10
Pg 48	43 - 46,5	65	51	11	EX1803.80.48.465	148.4846.10



Auf Anfrage:

- mit langem Anschlussgewinde

On request:

- with long entry thread

Eigenschaften:

- einfache, schnelle und sichere Montage
- sehr guter Schirmkontakt 360° über Kontakthülse
- konstante Kontaktqualität mit kleinster Kopplungsimpedanz

Characteristics:

- easy, fast and safe to install
- efficient 360° shield contact with contact socket
- constant contact quality with low impedances

Kabelverschraubungen mit Biegeschutz und Zugentlastung

Cable Glands with bending protection and traction relief



Qualität aus Waldkirch

Progress-M / BZ-EX

Material: Messing vernickelt
Schrauben: rostfreier Stahl A2
Dichtensatz: TPE (zweiteilig)
O-Ring: NBR
Einsatztemperatur: -40 °C bis 100 °C
Schutzart: IP 68 / IP 69K

Material: brass, nickel-plated
Screws: stainless steel A2
Sealing insert: TPE (two-piece)
O-ring: NBR
Temperature range: -40 °C to +100 °C
Protection type: IP 68 / IP 69K

147.10
147.30

Zertifikate: PTB 02 ATEX 1125
IECEX SEV 12.0001

Certificates: PTB 02 ATEX 1125
IECEX SEV 12.0001



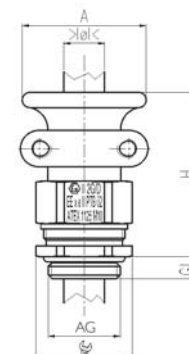
Weitere internationale Zulassungen vorhanden

Further international approvals available



ATEX II 2GD
Ex e II
Ex tD A21 IP 68

Gewinde Entry Thread AG			A mm	H mm	GL mm	Progress MS T + KB EX	HUGRO No.
kurzes Anschlussgewinde / short entry thread							
M 16 x 1,5	6 - 10,5	18	28	43	5	EX1801.17	147.1702.10
M 20 x 1,5	8 - 15	24	34	46	6	EX1801.20	147.2002.10
M 25 x 1,5	12,5 - 20,5	30	44	52	7	EX1801.25	147.2502.10
M 32 x 1,5	17 - 25,5	36	49,5	59	8	EX1801.32	147.3202.10
M 40 x 1,5	24 - 33	46	57	59	8	EX1801.40	147.4002.10
langes Anschlussgewinde / long entry thread							
Pg 9	6 - 10,5	18	28	43	6	EX1801.09	147.0902.10
Pg 11	5,5 - 12	21	30	43	6	EX1801.11	147.1102.10
Pg 13,5	8 - 15	24	34	46	6	EX1801.13	147.1302.10
Pg 16	8 - 15	24	34	46	6	EX1801.16	147.1602.10
Pg 21	12,5 - 20,5	30	44	52	7,5	EX1801.21	147.2102.10
Pg 29	19 - 27,5	38	50	59	8	EX1801.29	147.2902.10
langes Anschlussgewinde / long entry thread							
M 16 x 1,5	6 - 10,5	18	28	43	10	EX1811.17	147.1702.30
M 20 x 1,5	8 - 15	24	34	46	10	EX1811.20	147.2002.30
M 25 x 1,5	12,5 - 20,5	30	44	52	11	EX1811.25	147.2502.30
M 32 x 1,5	17 - 25,5	36	49,5	59	13	EX1811.32	147.3202.30
M 40 x 1,5	24 - 33	46	57	59	13	EX1811.40	147.4002.30
langes Anschlussgewinde / long entry thread							
Pg 9	6 - 10,5	18	28	43	10	EX1811.09	147.0902.30
Pg 11	5,5 - 12	21	30	43	10	EX1811.11	147.1102.30
Pg 13,5	8 - 15	24	34	46	10	EX1811.13	147.1302.30
Pg 16	8 - 15	24	34	46	10	EX1811.16	147.1602.30
Pg 21	12,5 - 20,5	30	44	52	12	EX1811.21	147.2102.30
Pg 29	19 - 27,5	38	50	59	12	EX1811.29	147.2902.30



Progress-P / EX

Material: PA, glasfaserverstärkt
 Farbe: grau / schwarz / blau
 Dichteinsatz: TPE / NBR *
 Einsatztemperatur: -20 °C bis 85 °C
 Schutzart: IP 68

Material: PA (Nylon), glass-fibre reinforced
 Colour: grey / black / blau
 Sealing insert: TPE / NBR *
 Temperature range: -20 °C to 85 °C
 Protection type: IP 68

180.10
180.11
180.14

Zertifikate: PTB 02 ATEX 1126 X
 IECEx SEV 12.0002 X

Certificates: PTB 02 ATEX 1126 X
 IECEx SEV 12.0002 X



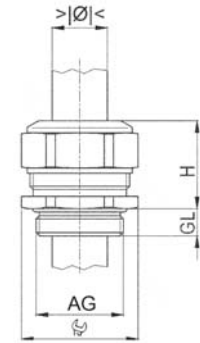
Weitere internationale Zulassungen vorhanden

Further international approvals available



ATEX II 2GD
Ex e II
Ex tD A21 IP 68

Gewinde Entry Thread AG	\varnothing mm	\varnothing mm	H mm	GL mm	Progress GFK EX	HUGRO No.
M 16 x 1,5	4,5 - 6	21	26	12	EX15xx.17.060	180.1706.1x
M 16 x 1,5	6 - 8	21	26	12	EX15xx.17.080	180.1708.1x
M 20 x 1,5	6 - 8	27	28	13	EX15xx.20.080	180.2008.1x
M 20 x 1,5	8 - 11	27	28	13	EX15xx.20.110	180.2011.1x
M 25 x 1,5	9,5 - 12,5	34	33	13	EX15xx.25.125	180.2512.1x
M 25 x 1,5	12,5 - 16	34	33	13	EX15xx.25.160	180.2516.1x
M 25 x 1,5	16 - 19	34	33	13	EX15xx.25.190	180.2519.1x
M 25 x 1,5	19 - 20,5	34	33	13	EX15xx.25.205	180.2520.1x
M 32 x 1,5	20 - 21	41	35	15	EX15xx.32.210	180.3221.1x
M 32 x 1,5	21 - 22	41	35	15	EX15xx.32.220	180.3222.1x *
M 32 x 1,5	22 - 23	41	35	15	EX15xx.32.230	180.3223.1x *
M 32 x 1,5	23 - 25,5	41	35	15	EX15xx.32.255	180.3225.1x
M 40 x 1,5	25,5 - 27	50	40	15	EX15xx.40.270	180.4027.1x *
M 40 x 1,5	27 - 28,5	50	40	15	EX15xx.40.285	180.4028.1x
M 40 x 1,5	28,5 - 30	50	40	15	EX15xx.40.300	180.4030.1x *
M 40 x 1,5	30 - 33	50	40	15	EX15xx.40.330	180.4033.1x
M 50 x 1,5	33 - 35	60	42	16	EX15xx.50.350	180.5035.1x *
M 50 x 1,5	35 - 37	60	42	16	EX15xx.50.370	180.5037.1x
M 50 x 1,5	37 - 39	60	42	16	EX15xx.50.390	180.5039.1x *
M 50 x 1,5	39 - 42	60	42	16	EX15xx.50.420	180.5042.1x
M 63 x 1,5	42 - 44	75	48	16	EX15xx.63.440	180.6344.1x *
M 63 x 1,5	44 - 46	75	48	16	EX15xx.63.460	180.6346.1x
M 63 x 1,5	46 - 48	75	48	16	EX15xx.63.480	180.6348.1x *
M 63 x 1,5	48 - 52	75	48	16	EX15xx.63.520	180.6352.1x
Pg 9	4,5 - 6	21	26	12	EX15xx.09.060	180.0906.1x
Pg 9	6 - 8	21	26	12	EX15xx.09.080	180.0908.1x
Pg 11	4 - 5,5	24	28	12	EX15xx.11.055	180.1105.1x
Pg 11	5,5 - 8,5	24	28	12	EX15xx.11.085	180.1108.1x
Pg 13,5	6 - 8	27	28	13	EX15xx.13.080	180.1308.1x
Pg 13,5	8 - 11	27	28	13	EX15xx.13.110	180.1311.1x
Pg 16	6 - 8	27	28	13	EX15xx.16.080	180.1608.1x
Pg 16	8 - 11	27	28	13	EX15xx.16.110	180.1611.1x
Pg 21	9,5 - 12,5	34	33	13	EX15xx.21.125	180.2112.1x
Pg 21	12,5 - 16	34	33	13	EX15xx.21.160	180.2116.1x
Pg 21	16 - 19	34	33	13	EX15xx.21.190	180.2119.1x
Pg 21	19 - 20,5	34	33	13	EX15xx.21.205	180.2120.1x
Pg 29	19,5 - 21	41	36	13	EX15xx.29.210	180.2921.1x *
Pg 29	21 - 23	41	36	13	EX15xx.29.230	180.2923.1x
Pg 29	23 - 25	41	36	13	EX15xx.29.250	180.2925.1x *
Pg 29	25 - 27,5	41	36	13	EX15xx.29.275	180.2927.1x
Pg 36	27 - 28,5	55	42	16	EX15xx.36.285	180.3628.1x *
Pg 36	28,5 - 30,5	55	42	16	EX15xx.36.305	180.3630.1x
Pg 36	30,5 - 32,5	55	42	16	EX15xx.36.325	180.3632.1x *
Pg 36	32,5 - 35	55	42	16	EX15xx.36.350	180.3635.1x
Pg 42	33 - 35	60	42	16	EX15xx.42.350	180.4235.1x *
Pg 42	35 - 37	60	42	16	EX15xx.42.370	180.4237.1x
Pg 42	37 - 39	60	42	16	EX15xx.42.390	180.4239.1x *
Pg 42	39 - 42	60	42	16	EX15xx.42.420	180.4242.1x
Pg 48	41 - 43	70	46	16	EX15xx.48.430	180.4843.1x
Pg 48	43 - 45	70	46	16	EX15xx.48.450	180.4845.1x *
Pg 48	45 - 47	70	46	16	EX15xx.48.470	180.4847.1x *
Pg 48	47 - 49	70	46	16	EX15xx.48.490	180.4849.1x



Bestell-Nummern sind zu ergänzen:	15xx	.1x
Reference numbers have to be completed	grau / grey:	= 1571 = .10
	schwarz / black:	= 1540 = .11
	blau / blue (Ex i):	= 1530 = .14