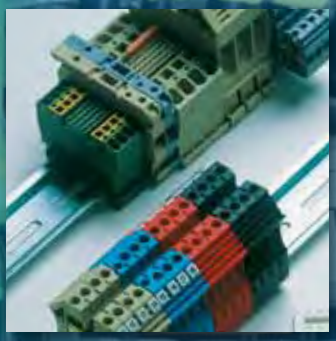
American Electrical, Inc.
Full Line Catalog

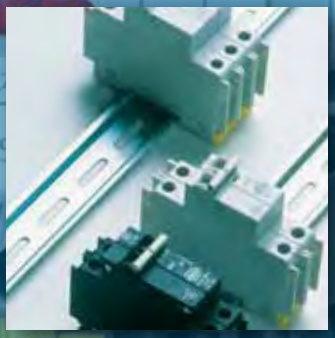
fourth edition

Connection, Power, & Protection...for less

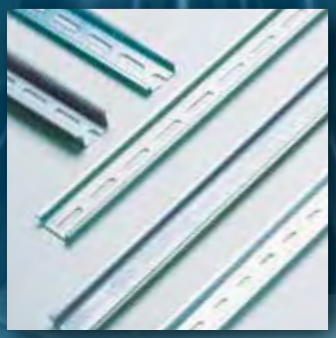
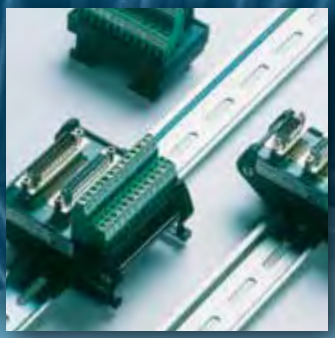
think *inside* the box










COMPANY HISTORY

American Electrical, Inc. was founded in 1997 by Thomas McCormick, former Vice President of Sales for Weidmuller, Inc. The Company concept was born over lunch with fellow associates literally on a napkin. American Electrical, Inc. was developed with a special German supplier relationship – who after a business meeting provided McCormick with a price list and a handshake. The Company flourished due to strong friendships, business relationships, and people who were unafraid to help a new organization grow. McCormick will never forget those special people and Distributors who first helped him get started – Thank You.

McCormick dreamed of a Company that responded quickly, shipped on time and provided quality products at a great price. He envisioned a workplace that was not compartmentalized, one where each person could be responsible for the Customer throughout the entire specification/order chain. He felt the satisfaction of the employees would create a powerful Customer Service entity which in return would create customer loyalty.

McCormick built the product lines offered by partnering with Companies who specialized in a product area but were smaller in scope – the businesses that were looking to break into the U.S. industrial market, but with no intentions of putting up brick and mortar. Today, American Electrical, Inc. has 12 product lines and is still growing. Our dedicated employees all work hard to serve our valued customers – helping them to "Think Inside the Box."

Quality Statement

American Electrical, Inc. is a supplier of high quality industrial electrical components. All of our products are manufactured in accordance to international standards, such as UL, CSA, CE and more.

RoHS (EU directive 2002/95/EC):

We certify all of our products comply with the RoHS Directive of January 27, 2003. All product lines are free of banned substances to include lead, mercury, cadmium, hexavalent chromium, PBB and PBDE.

OUR CORE BELIEFS

We have an acronym we call "FAST" that has both a true and underlying meaning. Of course the underlying message to our customers is that we try to do things as quickly as possible. Whether that's a quotation, price check, availability question, shipping or information request – we do it now – we know and understand that there are eager customers or potential customers waiting on us and their time is as valuable as ours.

Our word FAST also has a definitive meaning:

F – To be Flexible in our ability to serve the customer, to be able to effectively wear the different "hats" that are required in a smaller organization and to have the customers' service issues in mind at all times.

A – To be Accurate in everything we do – from specification to delivery. We understand the consequences of mistakes and the domino effect they can have on the practices of our customers and our combined businesses. Mistakes cost money and time. We seek the proper training to insure that we follow the correct procedures and have the product knowledge necessary to be correct. We know that we need to do it right all the time to eliminate the necessity to do it over.

S – To act with Speed in all that we do. We know the customer waits for our response or our products and we do not need to waste that time – for we understand that time is money. We want to be able to ship today, quote and specify now, fax immediately, confirm orders on receipt – respond NOW. For we know that this will win our customers' support, future business and trust.

T – To act as a Team so that our effort is multiplied to produce a much greater result for our customers. To have the positive attitude that is so common in winners. The understanding that people want to be winners and work with winners – with people who are successful not only in what they do but how they work together. We are a Team who acts as one on behalf of our dedicated customers, whom we would be nothing without.

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Cable Grips

Cable Grips secure cables to control cabinets or junction boxes – providing strain relief and protection from the elements. They are made of metal (nickel plated brass) or plastic (nylon). Advantages exist for both types of cable grip with the nylon versions becoming more popular since they can provide the same level of protection against dust, debris and water as the metallic versions – for less cost and weight. Cable Grips are specified first by the cable diameter and second by thread type.

Cable Grips are available in three different thread types, PG (Panzer Gewinde, a German specified thread widely used in Europe), Metric and NPT (National Pipe Thread – used in USA). This is useful since most specifiers thread the cabinet holes so that the cable grip can be screwed into it for a more secure fit. Others simply knockout a hole and place the cable grip inside it.

Our Cable Grips are approved by UL and Lloyds of London and are rated IP 68, the highest Ingress Protection available. Ingress Protection consists of two numbers – the first between 0 and 6, indicating the resistance to particles and the second between 0 and 8, indicating resistance to water. Please see our charts on pages 164 and 165 explaining the IP system.

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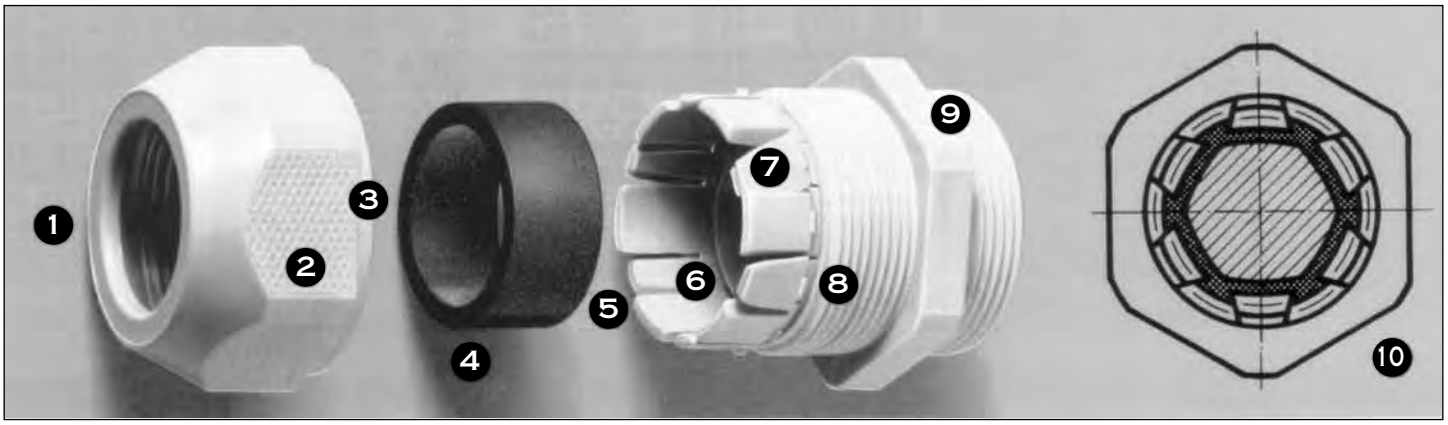


MAIN FEATURES: CABLE GRIPS

1. WIDER DOMED NUT WHICH CAN NOT BE OVER-TIGHTENED.
   THE WIDE DOME DESIGN ALLOWS SPACE FOR THE NEOPRENE SEAL TO FORM A TIGHT GRIP ON THE CABLE, FORMING AN IP68 BARRIER. (PLEASE REFER TO INGRESS PROTECTION [IP] RATINGS ON THE BACK PAGE.)
2. GENEROUS DEEP FLATS
   THE DEEP FLATS ALLOW ENOUGH ROOM FOR THE PROPER WRENCH TO TIGHTEN OR LOOSEN THE CABLE GRIP WITHOUT THE WRENCH COMING OFF.
3. SPACER
   A SMALL SPACER EXISTS BETWEEN THE DOMED NUT AND THE LOCKING COLLETT, PROVIDING AN ADDITIONAL SEAL WHEN FULLY TIGHTENED.
4. NEOPRENE RUBBER SEAL
   THIS SEAL GRIPS AROUND THE CABLE TO FORM THE IP68 BARRIER WHEN PROPERLY TIGHTENED.
5. WEBS ARE STAGGERED FOR BETTER GRIP
   WEBS ARE DESIGNED IN AN ALTERNATING GEOMETRY WHICH ENHANCES GRIPPING CAPABILITY.
6. STAGGERED WEBS
   THE WEB DESIGN IS STAGGERED TO ALLOW FOR SEAL CONFORMITY AROUND THE CABLE TO MAXIMIZE THE PULL OUT RESISTANCE AND PROTECTION AGAINST THE ELEMENTS.
7. SPRUNG WEBS
   THE WEBS ARE DESIGNED SO THAT THEY WILL SPRING BACK TO THEIR ORIGINAL OPEN POSITION MAKING INSTALLATION EASY WHILE MAINTAINING THE SEAL QUALITY.
8. RETENTION SPRINGS FOR DOMED NUT
   THE 'TIGHT SEAL' DESIGN ALLOWS THE DOMED NUT TO LOCK WITH THE COLLETT BEFORE ANY THREADS ARE ENGAGED. THIS GUARDS AGAINST MISTHREADS AS WELL AS AIDS IN THE INSTALLATION PROCESS.
9. SEALING LIP
   THE COLLETT DESIGN INCORPORATES A SEALING LIP WHICH PROVIDES FOR A POSITIVE SEAL AGAINST THE ENCLOSURE.
10. ANTI-TWIST CABLE LOCKING COLLETT
    THE ENTIRE DESIGN OF THE 'TIGHT SEAL' PRODUCT LINE INSURES THAT CABLES WILL NOT TWIST OR TURN ONCE LOCKED DOWN.

TECHNICAL DATA

MATERIAL:
POLYAMIDE PA 6, SELF-EXTINGUISHING, HALOGEN-FREE

SEAL:
NEOPRENE, OIL AND PETROLEUM RESISTANT

OPERATING TEMPERATURE:
STATIC: –40°C TO 100°C, SHORT-TERM 120°C
DYNAMIC: –30°C TO 80°C, SHORT-TERM 100°C

WEATHER RESISTANCE GOOD

STRAIN RELIEF:
SMOOTH ACTION

SAFETY CLASS:
IP68, WATERPROOF (5 BAR)

PATENTS:
EUROPE, USA, JAPAN

VDE TEST REPORT:
12 796-9000-4001/A 2 J.

UL TEST (UNDERWRITERS LABORATORIES INC.)

LLOYD'S REGISTER OF SHIPPING CERTIFICATE

GERMANISCHE LLOYD CERTIFICATE

Knockout Hole Reference Chart

PG	mm	inches
7	12.5	0.492
9	15.2	0.598
11	18.6	0.732
13.5	20.4	0.803
16	22.5	0.886
21	28.3	1.114
29	37	1.457
36	47	1.85
42	54	2.126
48	59.3	2.338

Metric	mm	inches
12	12	0.472
16	16	0.63
20	20	0.787
25	25	0.984
32	32	1.26
40	40	1.575
50	50	1.969
63	63	2.48

Ingress Protection (IP) Ratings

List of Protection Classes

IP Protection Classes to DIN 40 050 Sheet 1

Up to 1000 VAC and 1500 VDC (UTE standard C 200 10)

IP ratings consist of a two digit number explained below:

The two digits correspond to the description by DIN 40 050 sheet 1, IEC 144 and 525 as well as UTE C 200 10.

1st Digit
Degree of Protection Against Touching and Foreign Matter

IP	Specifications
0	No protection.
1	Protection against penetration by solid foreign matters larger than 50 mm (accidental touching by hand).
2	Protection against penetration by solid foreign matters larger than 12 mm (touching with fingers).
3	Protection against penetration by solid foreign matters larger than 2.5 mm (touching with tools, wires larger than 2.5 mm).
4	Protection against solid foreign matters larger than 1 mm (touching with tools, wires larger than 1 mm).
5	Complete protection from being touched. Protection from harmful dust deposits - dust penetration is not completely prevented.
6	Complete protection from being touched. Protection against penetration by dust.

2nd Digit
Degree of Protection Against Water

IP	Specifications
0	No protection.
1	Protection against vertically dripping water.
2	Protection against drip water falling at an angle of up to 15 degrees.
3	Protection against spray water falling at an angle of up to 60 degrees.
4	Protection against spray water from all directions.
5	Protection against water jets from all directions
6	Protection against temporary flooding, e.g., by rough sea.
7	Protection when submersed in water at specified pressure and unspecified duration.
8	Protection when submersed in water at elevated pressure and unspecified time.
9K	Protection against the penetration of water during high pressure (80-100 bars), high temperature wash-down applications (80°C).

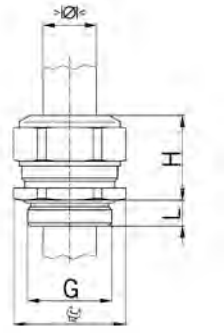
Use and Application of Nylon Cable Grips

1. **The use of synthetic - Cable Grips** is almost unlimited within the **electrical and electronics industry.** Installations where cables must be led safely through a wall of an enclosure will be specified with cable grips. Synthetic Cable grips are specified to:
   - **Secure the cable** to the enclosure's wall to provide excellent pull-out resistance.
   - **Seal and protect** the inside of the enclosure from the unwanted affects of the environment. These contaminants may be water, gas, chemicals vapors, or fumes.
   - **Reduce material cost due to use of lighter, less expensive materials, as well as, eliminating the need for running conduit.**

2. **Some of the typical applications using cable grips are:**
   - Machinery
   - Process equipment engineering
   - Apparatus and appliance construction
   - Aircraft and automotive engineering
   - Locomotive engineering
   - Elevator engineering
   - Plant engineering
   - Chemical and pharmaceutical industries
   - Refineries
   - Nuclear research institutions
   - Process automation and process engineering
   - Indoor and outdoor electrical installations
   - Switchgear and distribution construction
   - equipment for military purposes
   - municipal and utility type applications, such as power, electricity and gas works

Cable Glands Nickel-Plated Brass

Short entry thread metric



Material:	Nickel-plated brass
Seal:	TPE
O-ring:	NBR
Strain relief:	According to EN 50262 version A
Temperature range:	-40°C / +100°C
Protection class:	IP 68 (up to 10 bar)
Protection type addition:	IP 69K

Progress MS

One-piece sealing insert / overall length insulated

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	i info	Part. no.	
M6x1.0	2.0	2.5	8	12	5	1	**1060.06.025**	50
M6x1.0	2.5	3.0	8	12	5	1	**1060.06.030**	50
M8x1.25	2.5	3.0	11	14	5	1	**1060.08.030**	50
M8x1.25	3.0	4.0	11	14	5	1	**1060.08.040**	50
M10x1.5	3.0	4.0	13	15	5	1	**1060.10.040**	50
M10x1.5	4.0	6.0	13	15	5	1	**1060.10.060**	50
M12x1.5	3.5	5.0	15	17	5	-	**1060.12.050**	50
M12x1.5	5.0	6.5	15	17	5	-	**1060.12.065**	50
M12x1.5	6.5	7.5	15	17	5	-	**1060.12.075**	50
M16x1.5	4.5	6.0	18	20	5	-	**1060.17.060**	50
M16x1.5	6.0	8.0	18	20	5	-	**1060.17.080**	50
M16x1.5	8.0	10.5	18	22	5	-	**1060.17.105**	50
M20x1.5	6.0	8.0	24	21	6	-	**1060.20.080**	50
M20x1.5	8.0	11.0	24	21	6	-	**1060.20.110**	50
M20x1.5	11.0	14.5	24	23	6	-	**1060.20.145**	50
M25x1.5	9.5	12.5	30	25	7	-	**1060.25.125**	25
M25x1.5	12.5	16.0	30	25	7	-	**1060.25.160**	25
M25x1.5	16.0	19.0	30	28	7	-	**1060.25.190**	25
M32x1.5	17.0	21.0	36	28	8	-	**1060.32.210**	25
M32x1.5	21.0	25.5	36	28	8	-	**1060.32.255**	25
M40x1.5	24.0	28.5	46	31	8	-	**1060.40.285**	10
M40x1.5	28.5	33.0	46	31	8	-	**1060.40.330**	10
M50x1.5	33.0	37.0	55	34	9	-	**1060.50.370**	10
M50x1.5	37.0	42.0	55	34	9	-	**1060.50.420**	10
M63x1.5	40.0	46.0	70	37	10	-	**1060.63.460**	5
M63x1.5	46.0	52.0	70	37	10	-	**1060.63.520**	5
M75x1.5	50.0	56.0	80	38	11	-	**1060.75.560**	1
M75x1.5	56.0	63.0	80	38	11	-	**1060.75.630**	1

1 = Metric coarse-pitch thread

Progress MS

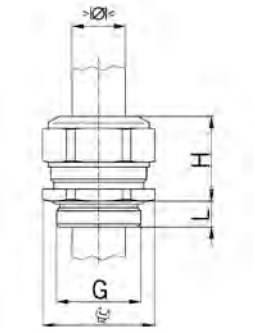
Two-piece sealing insert / overall length insulated

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Part. no.	
M16x1.5	6.0	10.5	18	22	5	**1060.17**	50
M20x1.5	8.0	14.5	24	23	6	**1060.20**	50
M25x1.5	12.5	19.0	30	28	7	**1060.25**	25
M32x1.5	17.0	25.5	36	28	8	**1060.32**	25
M40x1.5	24.0	33.0	46	31	8	**1060.40**	10
M50x1.5	33.0	42.0	55	34	9	**1060.50**	10
M63x1.5	40.0	52.0	70	37	10	**1060.63**	5
M75x1.5	50.0	63.0	80	38	11	**1060.75**	1

Cable Glands Nickel-Plated Brass

Short entry thread metric

Material:	Nickel-plated brass
Seal:	TPE / NBR
O-ring:	NBR
Strain relief:	According to EN 50262 version A
Temperature range:	-40°C / +100°C
Protection class:	IP 68 (up to 10 bar)
Protection type addition:	IP 69K



Progress MS

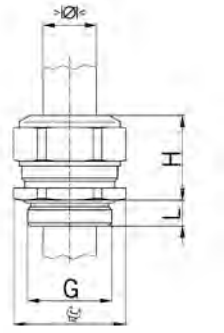
One-piece sealing insert / not overall length insulated

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	i info	Part. no.	
M6x1.0	2.0	2.5	8	12	5	1	**1000.06.025**	50
M6x1.0	2.5	3.0	8	12	5	1	**1000.06.030**	50
M6x1.0	3.0	3.5	8	12	5	1	**1000.06.035**	50
M8x1.25	2.5	3.5	11	14	5	1	**1000.08.035**	50
M8x1.25	3.5	5.0	11	14	5	1	**1000.08.050**	50
M10x1.5	3.0	4.0	13	15	5	1	**1000.10.040**	50
M10x1.5	4.0	6.0	13	15	5	1	**1000.10.060**	50
M12x1.5	3.5	5.0	15	17	5	-	**1000.12.050**	50
M12x1.5	5.0	6.5	15	17	5	-	**1000.12.065**	50
M12x1.5	6.5	8.0	15	17	5	-	**1000.12.080**	50
M16x1.5	3.5	4.5	18	20	5	-	**1000.17.045**	50
M16x1.5	4.5	6.0	18	20	5	-	**1000.17.060**	50
M16x1.5	6.0	8.0	18	20	5	-	**1000.17.080**	50
M16x1.5	8.0	10.5	18	22	5	-	**1000.17.105**	50
M20x1.5	6.0	8.0	24	21	6	-	**1000.20.080**	50
M20x1.5	8.0	11.0	24	21	6	-	**1000.20.110**	50
M20x1.5	11.0	15.0	24	23	6	-	**1000.20.150**	50
M25x1.5	9.5	12.5	30	25	7	-	**1000.25.125**	25
M25x1.5	12.5	16.0	30	27	7	-	**1000.25.160**	25
M25x1.5	16.0	20.5	30	28	7	-	**1000.25.205**	25
M32x1.5	14.0	17.0	36	28	8	-	**1000.32.170**	25
M32x1.5	17.0	21.0	36	28	8	-	**1000.32.210**	25
M32x1.5	21.0	25.5	36	28	8	-	**1000.32.255**	25
M40x1.5	20.0	24.0	46	31	8	-	**1000.40.240**	10
M40x1.5	24.0	28.5	46	31	8	-	**1000.40.285**	10
M40x1.5	28.5	33.0	46	31	8	-	**1000.40.330**	10
M50x1.5	29.0	33.0	55	34	9	-	**1000.50.330**	10
M50x1.5	33.0	37.0	55	34	9	-	**1000.50.370**	10
M50x1.5	37.0	42.0	55	34	9	-	**1000.50.420**	10
M63x1.5	35.0	40.0	70	37	10	-	**1000.63.400**	5
M63x1.5	40.0	46.0	70	37	10	-	**1000.63.460**	5
M63x1.5	46.0	52.0	70	37	10	-	**1000.63.520**	5
M75x1.5	45.0	50.0	80	38	11	-	**1000.75.500**	1
M75x1.5	50.0	56.0	80	38	11	-	**1000.75.560**	1
M75x1.5	56.0	63.0	80	38	11	-	**1000.75.630**	1
M85x2.0	63.0	70.0	95	41	18	-	**1000.85.700**	1
M95x2.0	68.0	75.0	110	51	20	-	**1000.95.750**	1
M95x2.0	73.0	80.0	110	51	20	-	**1000.95.800**	1
M100x3.0	78.0	85.0	115	51	22	-	**1000.100.850**	1
M105x3.0	83.0	90.0	120	52	22	-	**1000.105.900**	1
M115x3.0	88.0	95.0	125	52	22	-	**1000.115.950**	1

1 = Metric coarse-pitch thread

Cable Glands Nickel-Plated Brass

Short Entry Thread Metric



Material:	Nickel-plated brass
Seal:	TPE
O-ring:	NBR
Strain relief:	According to EN 50262 version A
Temperature range:	-40°C / +100°C
Protection class:	IP 68 (up to 10 bar)
Protection type addition:	IP 69K

Progress MS

Two-piece sealing insert / not overall length insulated

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Part. no.	
M16x1.5	6.0	10.5	18	22	5	**1000.17**	50
M20x1.5	8.0	15.0	24	23	6	**1000.20**	50
M25x1.5	12.5	20.5	30	28	7	**1000.25**	25
M32x1.5	17.0	25.5	36	28	8	**1000.32**	25
M40x1.5	24.0	33.0	46	31	8	**1000.40**	10
M50x1.5	33.0	42.0	55	34	9	**1000.50**	10
M63x1.5	40.0	52.0	70	37	10	**1000.63**	5
M75x1.5	50.0	63.0	80	38	11	**1000.75**	1

Long Entry Thread Metric

Progress MS

One-piece sealing insert / overall length insulated

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	i info	Part. no.	
M6x1.0	2.0	2.5	8	12	8	1	**1160.06.025**	50
M6x1.0	2.5	3.0	8	12	8	1	**1160.06.030**	50
M8x1.25	2.5	3.0	11	14	10	1	**1160.08.030**	50
M8x1.25	3.0	4.0	11	14	10	1	**1160.08.040**	50
M10x1.5	3.0	4.0	13	15	10	1	**1160.10.040**	50
M10x1.5	4.0	6.0	13	15	10	1	**1160.10.060**	50
M12x1.5	3.5	5.0	15	17	10	-	**1160.12.050**	50
M12x1.5	5.0	6.5	15	17	10	-	**1160.12.065**	50
M12x1.5	6.5	7.5	15	17	10	-	**1160.12.075**	50
M16x1.5	8.0	10.5	18	22	10	-	**1160.17.105**	50
M20x1.5	11.0	14.5	24	23	10	-	**1160.20.145**	50
M25x1.5	16.0	19.0	30	28	11	-	**1160.25.190**	25
M32x1.5	21.0	25.5	36	28	13	-	**1160.32.255**	25
M40x1.5	28.5	33.0	46	34	13	-	**1160.40.330**	10
M50x1.5	37.0	42.0	55	34	14	-	**1160.50.420**	10
M63x1.5	46.0	52.0	70	37	14	-	**1160.63.520**	5
M75x1.5	56.0	63.0	80	38	15	-	**1160.75.630**	1

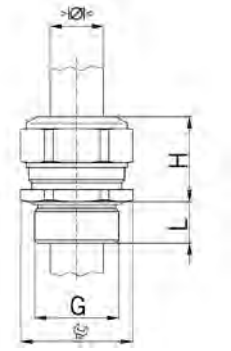
1 = Metric coarse-pitch thread

Progress MS

Two-piece sealing insert / overall length insulated

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Part. no.	
M16x1.5	6.0	10.5	18	22	10	**1160.17**	50
M20x1.5	8.0	14.5	24	23	10	**1160.20**	50
M25x1.5	12.5	19.0	30	28	11	**1160.25**	25
M32x1.5	17.0	25.5	36	28	13	**1160.32**	25
M40x1.5	24.0	33.0	46	31	13	**1160.40**	10
M50x1.5	33.0	42.0	55	34	14	**1160.50**	10
M63x1.5	40.0	52.0	70	37	14	**1160.63**	5
M75x1.5	50.0	63.0	80	38	15	**1160.75**	1

Material:	Nickel-plated brass
Seal:	TPE
O-ring:	NBR
Strain relief:	According to EN 50262 version A
Temperature range:	-40°C / +100°C
Protection class:	IP 68 (up to 10 bar)
Protection type addition:	IP 69K



Progress MS

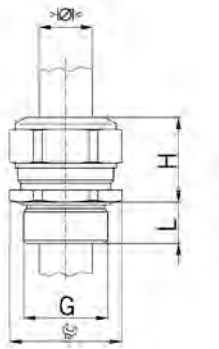
One-piece sealing insert / not overall length insulated

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	i info	Part. no.	
M6x1.0	2.0	2.5	8	12	8	1	**1100.06.025**	50
M6x1.0	2.5	3.0	8	12	8	1	**1100.06.030**	50
M6x1.0	3.0	3.5	8	12	8	1	**1100.06.035**	50
M8x1.25	2.5	3.5	11	14	10	1	**1100.08.035**	50
M8x1.25	3.5	5.0	11	14	10	1	**1100.08.050**	50
M10x1.5	3.0	4.0	13	15	10	1	**1100.10.040**	50
M10x1.5	4.0	6.0	13	15	10	1	**1100.10.060**	50
M12x1.5	3.5	5.0	15	17	10	-	**1100.12.050**	50
M12x1.5	5.0	6.5	15	17	10	-	**1100.12.065**	50
M12x1.5	6.5	8.0	15	17	10	-	**1100.12.080**	50
M16x1.5	3.5	4.5	18	20	10	-	**1100.17.045**	50
M16x1.5	4.5	6.0	18	20	10	-	**1100.17.060**	50
M16x1.5	6.0	8.0	18	20	10	-	**1100.17.080**	50
M16x1.5	8.0	10.5	18	22	10	-	**1100.17.105**	50
M20x1.5	6.0	8.0	24	21	10	-	**1100.20.080**	50
M20x1.5	8.0	11.0	24	21	10	-	**1100.20.110**	50
M20x1.5	11.0	15.0	24	23	10	-	**1100.20.150**	50
M25x1.5	9.5	12.5	30	25	11	-	**1100.25.125**	25
M25x1.5	12.5	16.0	30	27	11	-	**1100.25.160**	25
M25x1.5	16.0	20.5	30	28	11	-	**1100.25.205**	25
M32x1.5	14.0	17.0	36	28	13	-	**1100.32.170**	25
M32x1.5	17.0	21.0	36	28	13	-	**1100.32.210**	25
M32x1.5	21.0	25.5	36	28	13	-	**1100.32.255**	25
M40x1.5	20.0	24.0	46	31	13	-	**1100.40.240**	10
M40x1.5	24.0	28.5	46	31	13	-	**1100.40.285**	10
M40x1.5	28.5	33.0	46	31	13	-	**1100.40.330**	10
M50x1.5	29.0	33.0	55	34	14	-	**1100.50.330**	10
M50x1.5	33.0	37.0	55	34	14	-	**1100.50.370**	10
M50x1.5	37.0	42.0	55	34	14	-	**1100.50.420**	10
M63x1.5	35.0	40.0	70	37	14	-	**1100.63.400**	5
M63x1.5	40.0	46.0	70	37	14	-	**1100.63.460**	5
M63x1.5	46.0	52.0	70	37	14	-	**1100.63.520**	5
M75x1.5	45.0	50.0	80	38	15	-	**1100.75.500**	1
M75x1.5	50.0	56.0	80	38	15	-	**1100.75.560**	1
M75x1.5	56.0	63.0	80	38	15	-	**1100.75.630**	1

1 = Metric coarse-pitch thread

Cable Glands Nickel-Plated Brass

Long entry thread metric



Material:	Nickel-plated brass
Seal:	TPE
O-ring:	NBR
Strain relief:	According to EN 50262 version A
Temperature range:	-40°C / +100°C
Protection class:	IP 68 (up to 10 bar)
Protection type addition:	IP 69K

Progress MS

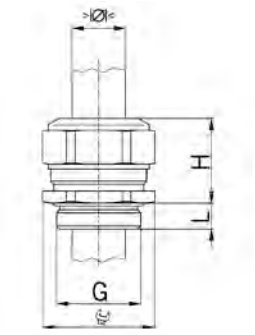
Two-piece sealing insert / not overall length insulated

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Part. no.	
M16x1.5	6.0	10.5	18	22	10	**1100.17**	50
M20x1.5	8.0	15.0	24	23	10	**1100.20**	50
M25x1.5	12.5	20.5	30	28	11	**1100.25**	25
M32x1.5	17.0	25.5	36	28	13	**1100.32**	25
M40x1.5	24.0	33.0	46	31	13	**1100.40**	10
M50x1.5	33.0	42.0	55	34	14	**1100.50**	10
M63x1.5	40.0	52.0	70	37	14	**1100.63**	5
M75x1.5	50.0	63.0	80	38	15	**1100.75**	1

Cable Glands Nickel-Plated Brass

Short entry thread PG

Material:	Nickel-plated brass
Seal:	TPE
O-ring:	NBR
Temperature range:	-40°C / +100°C
Protection class:	IP 68 (up to 10 bar)
Protection type addition:	IP 69K



Progress MS

One-piece sealing insert / overall length insulated

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Part. no.	
Pg 7	3.5	5.0	15	17	6.0	**1060.07.050**	50
Pg 7	5.0	6.5	15	17	6.0	**1060.07.065**	50
Pg 7	6.5	7.5	15	17	6.0	**1060.07.075**	50
Pg 9	4.5	6.0	18	20	6.0	**1060.09.060**	50
Pg 9	6.0	8.0	18	20	6.0	**1060.09.080**	50
Pg 9	8.0	10.5	18	22	6.0	**1060.09.105**	50
Pg 11	4.0	5.5	21	21	6.0	**1060.11.055**	50
Pg 11	5.5	8.5	21	21	6.0	**1060.11.085**	50
Pg 11	8.5	12.0	21	21	6.0	**1060.11.120**	50
Pg 13	6.0	8.0	24	21	6.0	**1060.13.080**	50
Pg 13	8.0	11.0	24	21	6.0	**1060.13.110**	50
Pg 13	11.0	14.5	24	23	6.0	**1060.13.145**	50
Pg 16	6.0	8.0	24	23	6.0	**1060.16.080**	50
Pg 16	8.0	11.0	24	23	6.0	**1060.16.110**	50
Pg 16	11.0	14.5	24	23	6.0	**1060.16.145**	50
Pg 21	9.5	12.5	30	28	7.5	**1060.21.125**	25
Pg 21	12.5	16.0	30	28	7.5	**1060.21.160**	25
Pg 21	16.0	19.0	30	28	7.5	**1060.21.190**	25
Pg 29	19.0	23.0	38	28	8.0	**1060.29.230**	25
Pg 29	23.0	27.5	38	28	8.0	**1060.29.275**	25
Pg 36	26.0	30.5	50	32	8.0	**1060.36.305**	10
Pg 36	30.5	35.0	50	32	8.0	**1060.36.350**	10
Pg 42	33.0	37.0	55	34	10.0	**1060.42.370**	10
Pg 42	37.0	42.0	55	34	10.0	**1060.42.420**	10
Pg 48	37.0	43.0	65	37	11.0	**1060.48.430**	10
Pg 48	43.0	49.0	65	37	11.0	**1060.48.490**	10

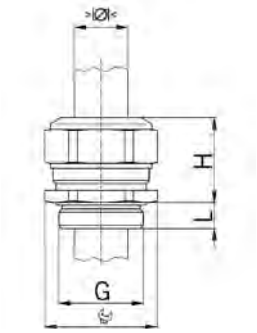
Progress MS

Two-piece sealing insert / overall length insulated

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Part. no.	
Pg 9	6.0	10.5	18	22	6.0	**1060.09**	50
Pg 11	5.5	12.0	21	21	6.0	**1060.11**	50
Pg 13	8.0	14.5	24	23	6.0	**1060.13**	50
Pg 16	8.0	14.5	24	23	6.0	**1060.16**	50
Pg 21	12.5	19.0	30	28	7.5	**1060.21**	25
Pg 29	19.0	27.5	38	28	8.0	**1060.29**	25
Pg 36	26.0	35.0	50	32	8.0	**1060.36**	10
Pg 42	33.0	42.0	55	34	10.0	**1060.42**	10
Pg 48	37.0	49.0	65	37	11.0	**1060.48**	10

Cable Glands Nickel-Plated Brass

Short Entry Thread PG



Material:	Nickel-plated brass
Seal:	TPE
O-ring:	NBR
Temperature range:	-40°C / +100°C
Protection class:	IP 68 (up to 10 bar)
Protection type addition:	IP 69K

Progress MS

One-piece sealing insert / not overall length insulated

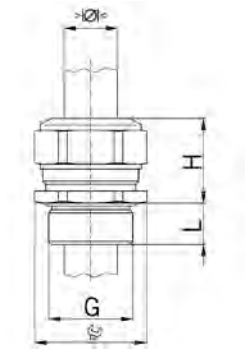
G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Part. no.	
Pg 7	3.5	5.0	15	17	6.0	1000.07.050	50
Pg 7	5.0	6.5	15	17	6.0	1000.07.065	50
Pg 7	6.5	8.0	15	17	6.0	1000.07.080	50
Pg 9	3.5	4.5	18	20	6.0	1000.09.045	50
Pg 9	4.5	6.0	18	20	6.0	1000.09.060	50
Pg 9	6.0	8.0	18	20	6.0	1000.09.080	50
Pg 9	8.0	10.5	18	22	6.0	1000.09.105	50
Pg 11	4.0	5.5	21	21	6.0	1000.11.055	50
Pg 11	5.5	8.5	21	21	6.0	1000.11.085	50
Pg 11	8.5	12.0	21	21	6.0	1000.11.120	50
Pg 13	6.0	8.0	24	21	6.0	1000.13.080	50
Pg 13	8.0	11.0	24	21	6.0	1000.13.110	50
Pg 13	11.0	15.0	24	23	6.0	1000.13.150	50
Pg 16	6.0	8.0	24	23	6.0	1000.16.080	50
Pg 16	8.0	11.0	24	23	6.0	1000.16.110	50
Pg 16	11.0	15.0	24	23	6.0	1000.16.150	50
Pg 21	9.5	12.5	30	28	7.5	1000.21.125	25
Pg 21	12.5	16.0	30	28	7.5	1000.21.160	25
Pg 21	16.0	20.5	30	28	7.5	1000.21.205	25
Pg 29	16.0	19.0	38	28	8.0	1000.29.190	25
Pg 29	19.0	23.0	38	28	8.0	1000.29.230	25
Pg 29	23.0	27.5	38	28	8.0	1000.29.275	25
Pg 36	21.5	26.0	50	32	8.0	1000.36.260	10
Pg 36	26.0	30.5	50	32	8.0	1000.36.305	10
Pg 36	30.5	35.0	50	32	8.0	1000.36.350	10
Pg 42	29.0	33.0	55	34	10.0	1000.42.330	10
Pg 42	33.0	37.0	55	34	10.0	1000.42.370	10
Pg 42	37.0	42.0	55	34	10.0	1000.42.420	10
Pg 48	32.0	37.0	65	37	11.0	1000.48.370	10
Pg 48	37.0	43.0	65	37	11.0	1000.48.430	10
Pg 48	43.0	49.0	65	37	11.0	1000.48.490	10

Progress MS

Two-piece sealing insert / not overall length insulated

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Part. no.	
Pg 9	6.0	10.5	18	22	6.0	1000.09	50
Pg 11	5.5	12.0	21	21	6.0	1000.11	50
Pg 13	8.0	15.0	24	23	6.0	1000.13	50
Pg 16	8.0	15.0	24	23	6.0	1000.16	50
Pg 21	12.5	20.5	30	28	7.5	1000.21	25
Pg 29	19.0	27.5	38	28	8.0	1000.29	25
Pg 36	26.0	35.0	50	32	8.0	1000.36	10
Pg 42	33.0	42.0	55	34	10.0	1000.42	10
Pg 48	37.0	49.0	65	37	11.0	1000.48	10

Material:	Nickel-plated brass
Seal:	TPE
O-ring:	NBR
Temperature range:	-40°C / +100°C
Protection class:	IP 68 (up to 10 bar)
Protection type addition:	IP 69K



Progress MS

One-piece sealing insert / overall length insulated

G	>|Ø|< min mm	>|Ø|< max mm	mm	H mm	L mm	Part. no.	
Pg 7	5.0	6.5	15	17	10	**1160.07.065**	50
Pg 7	6.5	7.5	15	17	10	**1160.07.075**	50
Pg 9	8.0	10.5	18	22	10	**1160.09.105**	50
Pg 11	8.5	12.0	21	21	10	**1160.11.120**	50
Pg 13	11.0	14.5	24	23	10	**1160.13.145**	50
Pg 16	11.0	14.5	24	23	10	**1160.16.145**	50
Pg 21	16.0	19.0	30	28	12	**1160.21.190**	25
Pg 29	23.0	27.5	38	28	12	**1160.29.275**	25
Pg 36	30.5	35.0	50	32	15	**1160.36.350**	10
Pg 42	37.0	42.0	55	32	15	**1160.42.420**	10
Pg 48	43.0	49.0	65	37	15	**1160.48.490**	10

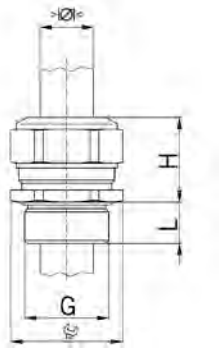
Progress MS

Two-piece sealing insert / overall length insulated

G	>|Ø|< min mm	>|Ø|< max mm	mm	H mm	L mm	Part. no.	
Pg 9	6.0	10.5	18	22	10	**1160.09**	50
Pg 11	5.5	12.0	21	21	10	**1160.11**	50
Pg 13	8.0	14.5	24	23	10	**1160.13**	50
Pg 16	8.0	14.5	24	23	10	**1160.16**	50
Pg 21	12.5	19.0	30	28	12	**1160.21**	25
Pg 29	19.0	27.5	38	28	12	**1160.29**	25
Pg 36	26.0	35.0	50	32	15	**1160.36**	10
Pg 42	33.0	42.0	55	34	15	**1160.42**	10
Pg 48	37.0	49.0	65	37	15	**1160.48**	10

Cable Glands Nickel-Plated Brass

LONG ENTRY THREAD PG



Material:	Nickel-plated brass
Seal:	TPE
O-ring:	NBR
Temperature range:	-40°C / +100°C
Protection class:	IP 68 (up to 10 bar)
Protection type addition:	IP 69K

Progress MS

One-piece sealing insert / not overall length insulated

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Part. no.	
Pg 7	3.5	5.0	15	17	10	**1100.07.050**	50
Pg 7	5.0	6.5	15	17	10	**1100.07.065**	50
Pg 7	6.5	8.0	15	17	10	**1100.07.080**	50
Pg 9	3.5	4.5	18	20	10	**1100.09.045**	50
Pg 9	4.5	6.0	18	20	10	**1100.09.060**	50
Pg 9	6.0	8.0	18	20	10	**1100.09.080**	50
Pg 9	8.0	10.5	18	22	10	**1100.09.105**	50
Pg 11	4.0	5.5	21	21	10	**1100.11.055**	50
Pg 11	5.5	8.5	21	21	10	**1100.11.085**	50
Pg 11	8.5	12.0	21	21	10	**1100.11.120**	50
Pg 13	6.0	8.0	24	21	10	**1100.13.080**	50
Pg 13	8.0	11.0	24	21	10	**1100.13.110**	50
Pg 13	11.0	15.0	24	23	10	**1100.13.150**	50
Pg 16	6.0	8.0	24	23	10	**1100.16.080**	50
Pg 16	8.0	11.0	24	23	10	**1100.16.110**	50
Pg 16	11.0	15.0	24	23	10	**1100.16.150**	50
Pg 21	9.5	12.5	30	28	12	**1100.21.125**	25
Pg 21	12.5	16.0	30	28	12	**1100.21.160**	25
Pg 21	16.0	20.5	30	28	12	**1100.21.205**	25
Pg 29	16.0	19.0	38	28	12	**1100.29.190**	25
Pg 29	19.0	23.0	38	28	12	**1100.29.230**	25
Pg 29	23.0	27.5	38	28	12	**1100.29.275**	25
Pg 36	21.5	26.0	50	32	15	**1100.36.260**	10
Pg 36	26.0	30.5	50	32	15	**1100.36.305**	10
Pg 36	30.5	35.0	50	32	15	**1100.36.350**	10
Pg 42	29.0	33.0	55	34	15	**1100.42.330**	10
Pg 42	33.0	37.0	55	34	15	**1100.42.370**	10
Pg 42	37.0	42.0	55	34	15	**1100.42.420**	10
Pg 48	32.0	37.0	65	37	15	**1100.48.370**	10
Pg 48	37.0	43.0	65	37	15	**1100.48.430**	10
Pg 48	43.0	49.0	65	37	15	**1100.48.490**	10

Progress MS

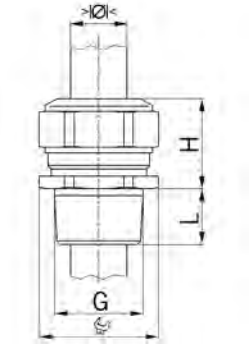
Two-piece sealing insert / not overall length insulated

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Part. no.	
Pg 9	6.0	10.5	18	22	10	**1100.09**	50
Pg 11	5.5	12.0	21	21	10	**1100.11**	50
Pg 13	8.0	15.0	24	23	10	**1100.13**	50
Pg 16	8.0	15.0	24	23	10	**1100.16**	50
Pg 21	12.5	20.5	30	28	12	**1100.21**	25
Pg 29	19.0	27.5	38	28	12	**1100.29**	25
Pg 36	26.0	35.0	50	32	15	**1100.36**	10
Pg 42	33.0	42.0	55	34	15	**1100.42**	10
Pg 48	37.0	49.0	65	37	15	**1100.48**	10

Cable Glands Nickel-Plated Brass

Entry thread NPT

Material:	Nickel-plated brass
Seal:	TPE
Temperature range:	-40°C / +100°C
Protection class:	IP 68 (up to 10 bar)
Protection type addition:	IP 69K
Entry thread:	IP 68, if the entry thread is sealed



Progress NPT

One-piece sealing insert / not overall length insulated

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Part. no.	
NPT 1/8"	3.0	4.0	13	15	8	**1000.1/8NPT.040**	50
NPT 1/8"	4.0	6.0	13	15	8	**1000.1/8NPT.060**	50
NPT 1/4"	3.5	5.0	15	17	12	**1000.1/4NPT.050**	50
NPT 1/4"	5.0	6.5	15	17	12	**1000.1/4NPT.065**	50
NPT 1/4"	6.5	8.0	15	17	12	**1000.1/4NPT.080**	50
NPT 3/8"	3.5	4.5	18	20	12	**1000.3/8NPT.045**	50
NPT 3/8"	4.5	6.0	18	20	12	**1000.3/8NPT.060**	50
NPT 3/8"	6.0	8.0	18	20	12	**1000.3/8NPT.080**	50
NPT 3/8"	8.0	10.5	18	22	12	**1000.3/8NPT.105**	50
NPT 1/2"	6.0	8.0	24	21	15	**1000.1/2NPT.080**	50
NPT 1/2"	8.0	11.0	24	21	15	**1000.1/2NPT.110**	50
NPT 1/2"	11.0	15.0	24	23	15	**1000.1/2NPT.150**	50
NPT 3/4"	9.5	12.5	30	28	15	**1000.3/4NPT.125**	25
NPT 3/4"	12.5	16.0	30	28	15	**1000.3/4NPT.160**	25
NPT 3/4"	16.0	20.5	30	28	15	**1000.3/4NPT.205**	25
NPT 1"	14.0	17.0	36	28	20	**1000.1NPT.170**	25
NPT 1"	17.0	21.0	36	28	20	**1000.1NPT.210**	25
NPT 1"	21.0	25.5	36	28	20	**1000.1NPT.255**	25
NPT 1 1/4"	20.0	24.0	46	31	20	**1000.11/4NPT.240**	10
NPT 1 1/4"	24.0	28.5	46	31	20	**1000.11/4NPT.285**	10
NPT 1 1/4"	28.5	33.0	46	31	20	**1000.11/4NPT.330**	10
NPT 1 1/2"	29.0	33.0	55	34	22	**1000.11/2NPT.330**	10
NPT 1 1/2"	33.0	37.0	55	34	22	**1000.11/2NPT.370**	10
NPT 1 1/2"	37.0	41.0	55	34	22	**1000.11/2NPT.410**	10
NPT 2"	35.0	40.0	70	37	22	**1000.2NPT.400**	5
NPT 2"	40.0	46.0	70	37	22	**1000.2NPT.460**	5
NPT 2"	46.0	52.0	70	37	22	**1000.2NPT.520**	5

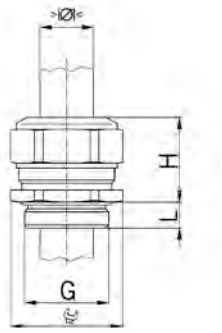
Progress NPT

Two-piece sealing insert / not overall length insulated

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Part. no.	
NPT 3/8"	6.0	10.5	18	22	12	**1000.3/8NPT**	50
NPT 1/2"	8.0	15.0	24	23	15	**1000.1/2NPT**	50
NPT 3/4"	12.5	20.5	30	28	15	**1000.3/4NPT**	25
NPT 1"	17.0	25.5	36	28	20	**1000.1NPT**	25
NPT 1 1/4"	24.0	33.0	46	31	20	**1000.11/4NPT**	10
NPT 1 1/2"	33.0	41.0	55	34	22	**1000.11/2NPT**	10
NPT 2"	40.0	52.0	70	37	22	**1000.2NPT**	5

Cable Glands Nickel-Plated Brass

GAS-PIPE ENTRY THREAD



Material:	Nickel-plated brass
Seal:	TPE
O-ring:	NBR
Temperature range:	-40°C / +100°C
Protection class:	IP 68

Two-piece sealing insert / not overall length insulated

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	i info	Part. no.	
G 3/8"	5.5	12.0	21	21	6	-	**1000.3/8G**	50
G 1/2"	8.0	15.0	24	23	8	-	**1000.1/2G**	50
G 3/4"	12.5	20.5	30	28	10	-	**1000.3/4G**	25
G 1"	17.0	25.5	36	28	11	-	**1000.1G**	25
G 1 1/2"	25.0	35.0	55/50	32	12	-	**1000.1 1/2G**	10
G 2"	37.0	49.0	65	37	12	-	**1000.2G**	10
G 2 1/2"	45.0	50.0	80	38	18	1	**1000.21/2G.500**	1
G 2 1/2"	50.0	56.0	80	38	18	1	**1000.21/2G.560**	1
G 3"	56.0	63.0	80	38	18	1	**1000.3G.630**	1
G 3"	63.0	70.0	95	40	18	1	**1000.3G.700**	1

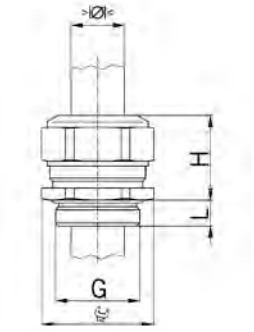
1 = One-piece sealing insert

Cable Glands Nickel-Plated Brass

for High Temperature Applications

SHORT ENTRY THREAD METRIC

Material:	Nickel-plated brass
Seal:	FPM
O-ring:	FPM
Strain relief:	According to EN 50262 version A
Temperature range:	-40°C / +200°C
Protection class:	IP 68 (up to 10 bar)
Protection type addition:	IP 69K



Progress MS HT

One-piece sealing insert / not overall length insulated

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	i info	Part. no.	
M6x1.0	2.0	2.5	8	12	5	1	**1000.06.91.025**	50
M6x1.0	2.5	3.0	8	12	5	1	**1000.06.91.030**	50
M6x1.0	3.0	3.5	8	12	5	1	**1000.06.91.035**	50
M8x1.25	2.5	3.5	11	14	5	1	**1000.08.91.035**	50
M8x1.25	3.5	5.0	11	14	5	1	**1000.08.91.050**	50
M10x1.5	3.0	4.0	13	15	5	1	**1000.10.91.040**	50
M10x1.5	4.0	6.0	13	15	5	1	**1000.10.91.060**	50
M12x1.5	3.5	5.0	15	17	5	-	**1000.12.91.050**	50
M12x1.5	5.0	6.5	15	17	5	-	**1000.12.91.065**	50
M12x1.5	6.5	8.0	15	17	5	-	**1000.12.91.080**	50
M16x1.5	8.0	10.5	18	22	5	-	**1000.17.91.105**	50
M20x1.5	11.0	15.0	24	23	6	-	**1000.20.91.150**	50
M25x1.5	16.0	20.5	30	28	7	-	**1000.25.91.205**	25
M32x1.5	21.0	25.5	36	28	8	-	**1000.32.91.255**	25
M40x1.5	28.5	33.0	46	31	8	-	**1000.40.91.330**	10
M50x1.5	37.0	42.0	55	34	9	-	**1000.50.91.420**	10
M63x1.5	46.0	52.0	70	37	10	-	**1000.63.91.520**	5

1 = Metric coarse-pitch thread

Progress MS HT

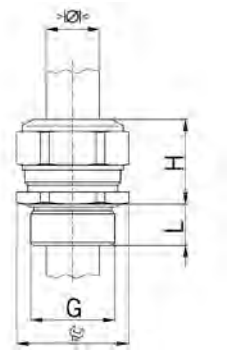
Two-piece sealing insert / not overall length insulated

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Part. no.	
M16x1.5	6.0	10.5	18	22	5	**1000.17.92**	50
M20x1.5	8.0	15.0	24	23	6	**1000.20.92**	50
M25x1.5	12.5	20.5	30	28	7	**1000.25.92**	25
M32x1.5	17.0	25.5	36	28	8	**1000.32.92**	25
M40x1.5	24.0	33.0	46	31	8	**1000.40.92**	10
M50x1.5	33.0	42.0	55	34	9	**1000.50.92**	10
M63x1.5	40.0	52.0	70	37	10	**1000.63.92**	5

Cable Glands Nickel-Plated Brass

for High Temperature Applications

LONG ENTRY THREAD METRIC



Material:	Nickel-plated brass
Seal:	FPM
O-ring:	FPM
Strain relief:	According to EN 50262 version A
Temperature range:	-40°C / +200°C
Protection class:	IP 68 (up to 10 bar)
Protection type addition:	IP 69K

Progress MS HT

One-piece sealing insert / not overall length insulated

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	i info	Part. no.	
M6x1.0	2.0	2.5	8	12	8	1	**1100.06.91.025**	50
M6x1.0	2.5	3.0	8	12	8	1	**1100.06.91.030**	50
M6x1.0	3.0	3.5	8	12	8	1	**1100.06.91.035**	50
M8x1.25	2.5	3.5	11	14	10	1	**1100.08.91.035**	50
M8x1.25	3.5	5.0	11	14	10	1	**1100.08.91.050**	50
M10x1.5	3.0	4.0	13	15	10	1	**1100.10.91.040**	50
M10x1.5	4.0	6.0	13	15	10	1	**1100.10.91.060**	50
M12x1.5	3.5	5.0	15	17	10	-	**1100.12.91.050**	50
M12x1.5	5.0	6.5	15	17	10	-	**1100.12.91.065**	50
M12x1.5	6.5	8.0	15	17	10	-	**1100.12.91.080**	50
M16x1.5	8.0	10.5	18	22	10	-	**1100.17.91.105**	50
M20x1.5	11.0	15.0	24	23	10	-	**1100.20.91.150**	50
M25x1.5	16.0	20.5	30	28	11	-	**1100.25.91.205**	25
M32x1.5	21.0	25.5	36	28	13	-	**1100.32.91.255**	25
M40x1.5	28.5	33.0	46	31	13	-	**1100.40.91.330**	10
M50x1.5	37.0	42.0	55	34	14	-	**1100.50.91.420**	10
M63x1.5	46.0	52.0	70	37	14	-	**1100.63.91.520**	5

1 = Metric coarse-pitch thread

Progress MS HT

Two-piece sealing insert / not overall length insulated

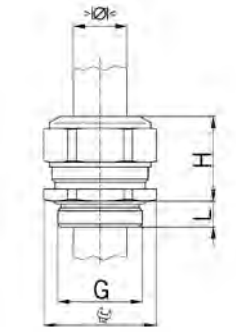
G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Part. no.	
M16x1.5	6.0	10.5	18	22	10	**1100.17.92**	50
M20x1.5	8.0	15.0	24	23	10	**1100.20.92**	50
M25x1.5	12.5	20.5	30	28	11	**1100.25.92**	25
M32x1.5	17.0	25.5	36	28	13	**1100.32.92**	25
M40x1.5	24.0	33.0	46	31	13	**1100.40.92**	10
M50x1.5	33.0	42.0	55	34	14	**1100.50.92**	10
M63x1.5	40.0	52.0	70	37	14	**1100.63.92**	5

Cable Glands Nickel-Plated Brass

for High Temperature Applications

SHORT ENTRY THREAD PG

Material:	Nickel-plated brass
Seal:	FPM
O-ring:	FPM
Temperature range:	-40°C / +200°C
Protection class:	IP 68 (up to 10 bar)
Protection type addition:	IP 69K



Progress MS HT

One-piece sealing insert / not overall length insulated

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Part. no.	
Pg 7	3.5	5.0	15	17	6	**1000.07.91.050**	50
Pg 7	5.0	6.5	15	17	6	**1000.07.91.065**	50
Pg 7	6.5	8.0	15	17	6	**1000.07.91.080**	50
Pg 9	8.0	10.5	18	22	6	**1000.09.91.105**	50
Pg 11	8.5	12.0	21	21	6	**1000.11.91.120**	50
Pg 13	11.0	15.0	24	23	6	**1000.13.91.150**	50
Pg 16	11.0	15.0	24	23	6	**1000.16.91.150**	50
Pg 21	16.0	20.5	30	28	7	**1000.21.91.205**	25
Pg 29	23.0	27.5	38	28	8	**1000.29.91.275**	25
Pg 36	30.5	35.0	50	32	8	**1000.36.91.350**	10
Pg 42	37.0	42.0	55	34	10	**1000.42.91.420**	10
Pg 48	43.0	49.0	65	37	11	**1000.48.91.490**	10

Progress MS HT

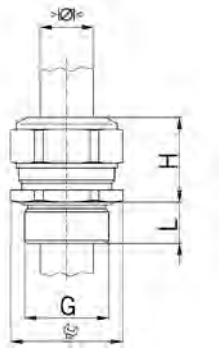
Two-piece sealing insert / not overall length insulated

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Part. no.	
Pg 9	6.0	10.5	18	22	6	**1000.09.92**	50
Pg 11	5.5	12.0	21	21	6	**1000.11.92**	50
Pg 13	8.0	15.0	24	23	6	**1000.13.92**	50
Pg 16	8.0	15.0	24	23	6	**1000.16.92**	50
Pg 21	12.5	20.5	30	28	7	**1000.21.92**	25
Pg 29	19.0	27.5	38	28	8	**1000.29.92**	25
Pg 36	26.0	35.0	50	32	8	**1000.36.92**	10
Pg 42	33.0	42.0	55	34	10	**1000.42.92**	10
Pg 48	37.0	49.0	65	37	11	**1000.48.92**	10

Cable Glands Nickel-Plated Brass

for High Temperature Applications

LONG ENTRY THREAD PG



Material:	Nickel-plated brass
Seal:	FPM
O-ring:	FPM
Temperature range:	-40°C / +200°C
Protection class:	IP 68 (up to 10 bar)
Protection type addition:	IP 69K

Progress MS HT

One-piece sealing insert / not overall length insulated

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Part. no.	
Pg 7	3.5	5.0	15	17	10	**1100.07.91.050**	50
Pg 7	5.0	6.5	15	17	10	**1100.07.91.065**	50
Pg 7	6.5	8.0	15	17	10	**1100.07.91.080**	50
Pg 9	8.0	10.5	18	22	10	**1100.09.91.105**	50
Pg 11	8.5	12.0	21	21	10	**1100.11.91.120**	50
Pg 13	11.0	15.0	24	23	10	**1100.13.91.150**	50
Pg 16	11.0	15.0	24	23	10	**1100.16.91.150**	50
Pg 21	16.0	20.5	30	28	12	**1100.21.91.205**	25
Pg 29	23.0	27.5	38	28	12	**1100.29.91.275**	25
Pg 36	30.5	35.0	50	32	15	**1100.36.91.350**	10
Pg 42	37.0	42.0	55	34	15	**1100.42.91.420**	10
Pg 48	43.0	49.0	65	37	15	**1100.48.91.490**	10

Progress MS HT

Two-piece sealing insert / not overall length insulated

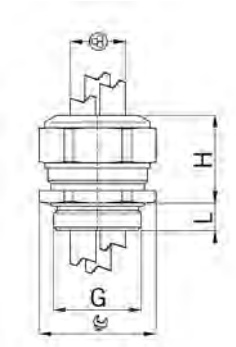
G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Part. no.	
Pg 9	6.0	10.5	18	22	10	**1100.09.92**	50
Pg 11	5.5	12.0	21	21	10	**1100.11.92**	50
Pg 13	8.0	15.0	24	23	10	**1100.13.92**	50
Pg 16	8.0	15.0	24	23	10	**1100.16.92**	50
Pg 21	12.5	20.5	30	28	12	**1100.21.92**	25
Pg 29	19.0	27.5	38	28	12	**1100.29.92**	25
Pg 36	26.0	35.0	50	32	15	**1100.36.92**	10
Pg 42	33.0	42.0	55	34	15	**1100.42.92**	10
Pg 48	37.0	49.0	65	37	15	**1100.48.92**	10

Cable Glands Nickel-Plated Brass

for Installation of Multiple Cables

SHORT ENTRY THREAD METRIC

Material:	Nickel-plated brass
Seal:	TPE
O-ring:	NBR
Strain relief:	According to EN 50262 version A
Temperature range:	-40°C / +100°C
Protection class:	IP 68



Progress MS Multi

One-piece sealing insert / not overall length insulated

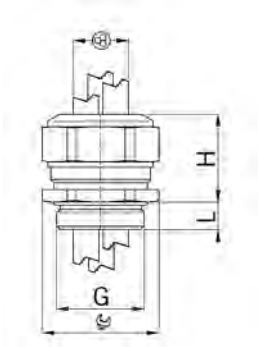
G	>Ø< min mm	>Ø< max mm		mm	H mm	L mm	Part. no.	
M16x1.5	2.0	3.0	2	18	22	5	**1310.17.2.030**	50
M16x1.5	2.5	4.0	2	18	22	5	**1310.17.2.040**	50
M16x1.5	3.5	5.0	2	18	22	5	**1310.17.2.050**	50
M20x1.5	3.5	5.0	2	24	23	6	**1310.20.2.050**	50
M20x1.5	4.5	6.0	2	24	23	6	**1310.20.2.060**	50
M20x1.5	5.5	7.5	2	24	23	6	**1310.20.2.075**	50
M20x1.5	3.5	5.0	3	24	23	6	**1310.20.3.050**	50
M20x1.5	4.5	6.0	3	24	23	6	**1310.20.3.060**	50
M20x1.5	5.2	6.5	3	24	23	6	**1310.20.3.065**	50
M20x1.5	3.5	5.0	4	24	23	6	**1310.20.4.050**	50
M20x1.5	4.5	6.0	4	24	23	6	**1310.20.4.060**	50
M25x1.5	5.0	7.0	2	30	28	7	**1310.25.2.070**	25
M25x1.5	6.7	9.0	2	30	28	7	**1310.25.2.090**	25
M25x1.5	7.7	10.0	2	30	28	7	**1310.25.2.100**	25
M25x1.5	5.5	7.0	3	30	28	7	**1310.25.3.070**	25
M25x1.5	6.8	9.0	3	30	28	7	**1310.25.3.090**	25
M25x1.5	5.5	7.0	4	30	28	7	**1310.25.4.070**	25
M25x1.5	4.8	6.0	6	30	28	7	**1310.25.6.060**	25
M32x1.5	9.0	11.5	2	36	28	8	**1310.32.2.115**	25
M32x1.5	7.0	9.0	3	36	28	8	**1310.32.3.090**	25
M32x1.5	8.5	10.5	3	36	28	8	**1310.32.3.105**	25
M32x1.5	7.0	9.0	4	36	28	8	**1310.32.4.090**	25
M32x1.5	5.8	7.0	6	36	28	8	**1310.32.6.070**	25

Further versions and larger entry threads are available upon request.

Cable Glands Nickel-Plated Brass

for Installation of Multiple Cables

LONG ENTRY THREAD METRIC



Material:	Nickel-plated brass
Seal:	TPE
O-ring:	NBR
Strain relief:	According to EN 50262 version A
Temperature range:	-40°C / +100°C
Protection class:	IP 68

Progress MS Multi

One-piece sealing insert / not overall length insulated

G	>Ø< min mm	>Ø< max mm		mm	H mm	L mm	Part. no.	
M16x1.5	2.0	3.0	2	18	22	10	**1311.17.2.030**	50
M16x1.5	2.5	4.0	2	18	22	10	**1311.17.2.040**	50
M16x1.5	3.5	5.0	2	18	22	10	**1311.17.2.050**	50
M20x1.5	3.5	5.0	2	24	23	10	**1311.20.2.050**	50
M20x1.5	4.5	6.0	2	24	23	10	**1311.20.2.060**	50
M20x1.5	5.5	7.5	2	24	23	10	**1311.20.2.075**	50
M20x1.5	3.5	5.0	3	24	23	10	**1311.20.3.050**	50
M20x1.5	4.5	6.0	3	24	23	10	**1311.20.3.060**	50
M20x1.5	5.2	6.5	3	24	23	10	**1311.20.3.065**	50
M20x1.5	3.5	5.0	4	24	23	10	**1311.20.4.050**	50
M20x1.5	4.5	6.0	4	24	23	10	**1311.20.4.060**	50
M25x1.5	5.0	7.0	2	30	28	11	**1311.25.2.070**	25
M25x1.5	6.7	9.0	2	30	28	11	**1311.25.2.090**	25
M25x1.5	7.7	10.0	2	30	28	11	**1311.25.2.100**	25
M25x1.5	5.5	7.0	3	30	28	11	**1311.25.3.070**	25
M25x1.5	6.8	9.0	3	30	28	11	**1311.25.3.090**	25
M25x1.5	5.5	7.0	4	30	28	11	**1311.25.4.070**	25
M25x1.5	4.8	6.0	6	30	28	11	**1311.25.6.060**	25
M32x1.5	9.0	11.5	2	36	28	13	**1311.32.2.115**	25
M32x1.5	7.0	9.0	3	36	28	13	**1311.32.3.090**	25
M32x1.5	8.5	10.5	3	36	28	13	**1311.32.3.105**	25
M32x1.5	7.0	9.0	4	36	28	13	**1311.32.4.090**	25
M32x1.5	5.8	7.0	6	36	28	13	**1311.32.6.070**	25

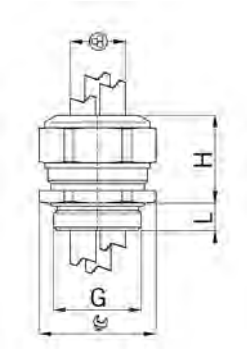
Further versions and larger entry threads are available upon request.

Cable Glands Nickel-Plated Brass

for Installation of Multiple Cables

SHORT ENTRY THREAD PG

Material:	Nickel-plated brass
Seal:	TPE
O-ring:	NBR
Temperature range:	-40°C / +100°C
Protection class:	IP 68



Progress MS Multi

One-piece sealing insert / not overall length insulated

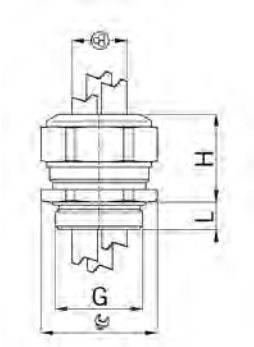
G	>Ø< min mm	>Ø< max mm		mm	H mm	L mm	Part. no.	
Pg 9	2.0	3.0	2	18	22	6.0	**1310.09.2.030**	50
Pg 9	2.5	4.0	2	18	22	6.0	**1310.09.2.040**	50
Pg 9	3.5	5.0	2	18	22	6.0	**1310.09.2.050**	50
Pg 11	3.5	5.0	2	21	21	6.0	**1310.11.2.050**	50
Pg 11	4.5	6.0	2	21	21	6.0	**1310.11.2.060**	50
Pg 11	5.5	7.5	2	24	23	6.0	**1310.11.2.075**	50
Pg 11	3.5	5.0	3	21	21	6.0	**1310.11.3.050**	50
Pg 13	3.5	5.0	2	24	23	6.0	**1310.13.2.050**	50
Pg 13	4.5	6.0	2	24	23	6.0	**1310.13.2.060**	50
Pg 13	5.5	7.5	2	24	23	6.0	**1310.13.2.075**	50
Pg 13	3.5	5.0	3	24	23	6.0	**1310.13.3.050**	50
Pg 13	4.5	6.0	3	24	23	6.0	**1310.13.3.060**	50
Pg 13	5.2	6.5	3	24	23	6.0	**1310.13.3.065**	50
Pg 13	3.5	5.0	4	24	23	6.0	**1310.13.4.050**	50
Pg 13	4.5	6.0	4	24	23	6.0	**1310.13.4.060**	50
Pg 16	3.5	5.0	2	24	23	6.0	**1310.16.2.050**	50
Pg 16	4.5	6.0	2	24	23	6.0	**1310.16.2.060**	50
Pg 16	5.5	7.5	2	24	23	6.0	**1310.16.2.075**	50
Pg 16	6.7	9.0	2	30	28	6.0	**1310.16.2.090**	25
Pg 16	3.5	5.0	3	24	23	6.0	**1310.16.3.050**	50
Pg 16	4.5	6.0	3	24	23	6.0	**1310.16.3.060**	50
Pg 16	5.0	7.0	3	30	28	6.0	**1310.16.3.070**	25
Pg 16	3.5	5.0	4	24	23	6.0	**1310.16.4.050**	50
Pg 16	4.5	6.0	4	24	23	6.0	**1310.16.4.060**	50
Pg 16	5.5	7.0	4	30	28	6.0	**1310.16.4.070**	25
Pg 21	5.0	7.0	2	30	28	7.5	**1310.21.2.070**	25
Pg 21	6.7	9.0	2	30	28	7.5	**1310.21.2.090**	25
Pg 21	7.7	10.0	2	30	28	7.5	**1310.21.2.100**	25
Pg 21	9.0	11.5	2	36	28	7.5	**1310.21.2.115**	25
Pg 21	5.5	7.0	3	30	28	7.5	**1310.21.3.070**	25
Pg 21	6.8	9.0	3	30	28	7.5	**1310.21.3.090**	25
Pg 21	8.5	10.5	3	36	28	7.5	**1310.21.3.105**	25
Pg 21	5.5	7.0	4	30	28	7.5	**1310.21.4.070**	25
Pg 21	7.0	9.0	4	36	28	7.5	**1310.21.4.090**	25
Pg 21	4.8	6.0	6	30	28	7.5	**1310.21.6.060**	25
Pg 21	5.8	7.0	6	36	28	7.5	**1310.21.6.070**	25
Pg 29	7.5	9.0	3	38	28	8.0	**1310.29.3.090**	25

Further versions and larger entry threads are available upon request.

Cable Glands Nickel-Plated Brass

for Installation of Multiple Cables

LONG ENTRY THREAD PG



Material:	Nickel-plated brass
Seal:	TPE
O-ring:	NBR
Temperature range:	-40°C / +100°C
Protection class:	IP 68

Progress MS Multi

One-piece sealing insert / not overall length insulated

G	>Ø< min mm	>Ø< max mm		mm	H mm	L mm	Part. no.	
Pg 9	2.0	3.0	2	18	22	10	**1311.09.2.030**	50
Pg 9	2.5	4.0	2	18	22	10	**1311.09.2.040**	50
Pg 9	3.5	5.0	2	18	22	10	**1311.09.2.050**	50
Pg 11	3.5	5.0	2	21	21	10	**1311.11.2.050**	50
Pg 11	4.5	6.0	2	21	21	10	**1311.11.2.060**	50
Pg 11	5.5	7.5	2	24	23	10	**1311.11.2.075**	50
Pg 11	3.5	5.0	3	21	21	10	**1311.11.3.050**	50
Pg 13	3.5	5.0	2	24	23	10	**1311.13.2.050**	50
Pg 13	4.5	6.0	2	24	23	10	**1311.13.2.060**	50
Pg 13	5.5	7.5	2	24	23	10	**1311.13.2.075**	50
Pg 13	3.5	5.0	3	24	23	10	**1311.13.3.050**	50
Pg 13	4.5	6.0	3	24	23	10	**1311.13.3.060**	50
Pg 13	5.2	6.5	3	24	23	10	**1311.13.3.065**	50
Pg 13	3.5	5.0	4	24	23	10	**1311.13.4.050**	50
Pg 13	4.5	6.0	4	24	23	10	**1311.13.4.060**	50
Pg 16	3.5	5.0	2	24	23	10	**1311.16.2.050**	50
Pg 16	4.5	6.0	2	24	23	10	**1311.16.2.060**	50
Pg 16	5.5	7.5	2	24	23	10	**1311.16.2.075**	50
Pg 16	6.7	9.0	2	30	28	10	**1311.16.2.090**	25
Pg 16	3.5	5.0	3	24	23	10	**1311.16.3.050**	50
Pg 16	4.5	6.0	3	24	23	10	**1311.16.3.060**	50
Pg 16	5.0	7.0	3	30	28	10	**1311.16.3.070**	25
Pg 16	3.5	5.0	4	24	23	10	**1311.16.4.050**	50
Pg 16	4.5	6.0	4	24	23	10	**1311.16.4.060**	50
Pg 16	5.5	7.0	4	30	28	10	**1311.16.4.070**	25
Pg 21	5.0	7.0	2	30	28	12	**1311.21.2.070**	25
Pg 21	6.7	9.0	2	30	28	12	**1311.21.2.090**	25
Pg 21	7.7	10.0	2	30	28	12	**1311.21.2.100**	25
Pg 21	9.0	11.5	2	36	28	12	**1311.21.2.115**	25
Pg 21	5.5	7.0	3	30	28	12	**1311.21.3.070**	25
Pg 21	6.8	9.0	3	30	28	12	**1311.21.3.090**	25
Pg 21	8.5	10.5	3	36	28	12	**1311.21.3.105**	25
Pg 21	5.5	7.0	4	30	28	12	**1311.21.4.070**	25
Pg 21	7.0	9.0	4	36	28	12	**1311.21.4.090**	25
Pg 21	4.8	6.0	6	30	28	12	**1311.21.6.060**	25
Pg 21	5.8	7.0	6	36	28	12	**1311.21.6.070**	25
Pg 29	7.5	9.0	3	38	28	12	**1311.29.3.090**	25

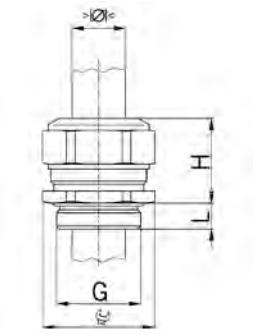
Further versions and larger entry threads are available upon request.

Cable Glands Nickel-Plated Brass

with Sealing Insert without Drilled Hole

Short Entry Thread Metric

Material:	Nickel-plated brass
Seal:	NBR, without drilled hole
O-ring:	NBR
Temperature range:	-40°C / +100°C
Protection class:	IP 68 (up to 10 bar)
Protection type addition:	IP 69K



Progress MS NBR

One-piece solid sealing insert / not overall length insulated

G	>Ø< max mm	mm	H mm	L mm	i info	Part. no.	
M6x1.0	3.5	8	12	5	1	**1000.06.30**	50
M8x1.25	5.0	11	14	5	1	**1000.08.30**	50
M10x1.5	6.0	13	15	5	1	**1000.10.30**	50
M12x1.5	8.0	15	17	5	-	**1000.12.30**	50
M16x1.5	10.5	18	22	5	-	**1000.17.30**	50
M20x1.5	15.0	24	23	6	-	**1000.20.30**	50
M25x1.5	20.5	30	28	7	-	**1000.25.30**	25
M32x1.5	25.5	36	28	8	-	**1000.32.30**	25
M40x1.5	33.0	46	31	8	-	**1000.40.30**	10
M50x1.5	42.0	55	34	9	-	**1000.50.30**	10
M63x1.5	52.0	70	37	10	-	**1000.63.30**	5

1 = Metric coarse-pitch thread

Technical note

When frozen to at least -25°C, the solid sealing inserts are easy to drill.

Short Entry Thread PG

Progress MS NBR

One-piece solid sealing insert / not overall length insulated

G	>Ø< max mm	mm	H mm	L mm	Part. no.	
Pg 7	8.0	15	17	6.0	**1000.07.30**	50
Pg 9	10.5	18	22	6.0	**1000.09.30**	50
Pg 11	12.0	21	21	6.0	**1000.11.30**	50
Pg 11	15.0	24	23	6.0	**1000.11.20.30**	50
Pg 13	15.0	24	23	6.0	**1000.13.30**	50
Pg 16	15.0	24	23	6.0	**1000.16.30**	50
Pg 16	18.5	30	28	6.0	**1000.16.25.30**	25
Pg 21	20.5	30	28	7.5	**1000.21.30**	25
Pg 21	23.0	36	28	7.5	**1000.21.32.30**	25
Pg 29	27.5	38	28	8.0	**1000.29.30**	25
Pg 29	33.0	46	31	8.0	**1000.29.40.30**	25
Pg 36	35.0	50	32	8.0	**1000.36.30**	10
Pg 36	42.0	55	34	8.0	**1000.36.50.30**	10
Pg 42	42.0	55	34	10.0	**1000.42.30**	10
Pg 48	49.0	65	37	11.0	**1000.48.30**	10

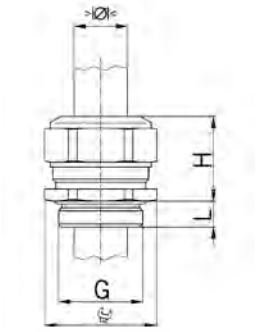
Technical note

When frozen to at least -25°C, the solid sealing inserts are easy to drill.

Cable Glands Nickel-Plated Brass

with Sealing Insert without Drilled Hole

short entry thread metric



Material:	Nickel-plated brass
Seal:	FPM, without drilled hole
O-ring:	FPM
Temperature range:	-40°C / +200°C
Protection class:	IP 68 (up to 10 bar)
Protection type addition:	IP 69K

Progress MS FPM

For high temperature applications / One-piece solid sealing insert / not overall length insulated

G	>Ø< max mm	mm	H mm	L mm	i info	Part. no.	
M6x1.0	3.5	8	12	5	1	**1000.06.30.91**	50
M8x1.25	5.0	11	14	5	1	**1000.08.30.91**	50
M10x1.5	6.0	13	15	5	1	**1000.10.30.91**	50
M12x1.5	8.0	15	17	5	-	**1000.12.30.91**	50
M16x1.5	10.5	18	22	5	-	**1000.17.30.91**	50
M20x1.5	15.0	24	23	6	-	**1000.20.30.91**	50
M25x1.5	20.5	30	28	7	-	**1000.25.30.91**	25
M32x1.5	25.5	36	28	8	-	**1000.32.30.91**	25
M40x1.5	33.0	46	31	8	-	**1000.40.30.91**	10
M50x1.5	42.0	55	34	9	-	**1000.50.30.91**	10
M63x1.5	52.0	70	37	10	-	**1000.63.30.91**	5

1 = Metric coarse-pitch thread

Technical note

When frozen to at least -25°C, the solid sealing inserts are easy to drill.

short entry thread PG

Progress MS FPM

For high temperature applications / One-piece solid sealing insert / not overall length insulated

G	>Ø< max mm	mm	H mm	L mm	Part. no.	
Pg 7	8.0	15	17	6.0	**1000.07.30.91**	50
Pg 9	10.5	18	22	6.0	**1000.09.30.91**	50
Pg 11	12.0	21	21	6.0	**1000.11.30.91**	50
Pg 11	15.0	24	23	6.0	**1000.11.20.30.91**	50
Pg 13	15.0	24	23	6.0	**1000.13.30.91**	50
Pg 16	15.0	24	23	6.0	**1000.16.30.91**	50
Pg 16	18.5	30	28	6.0	**1000.16.25.30.91**	25
Pg 21	20.5	30	28	7.5	**1000.21.30.91**	25
Pg 21	23.0	36	28	7.5	**1000.21.32.30.91**	25
Pg 29	27.5	38	28	8.0	**1000.29.30.91**	25
Pg 29	33.0	46	31	8.0	**1000.29.40.30.91**	25
Pg 36	35.0	50	32	8.0	**1000.36.30.91**	10
Pg 36	42.0	55	34	8.0	**1000.36.50.30.91**	10
Pg 42	42.0	55	34	10.0	**1000.42.30.91**	10
Pg 48	49.0	65	37	11.0	**1000.48.30.91**	10

Technical note

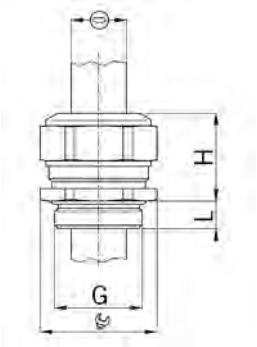
When frozen to at least -25°C, the solid sealing inserts are easy to drill.

Cable Glands Nickel-Plated Brass

for Flat Cables

short entry thread metric

Material:	Nickel-plated brass
Seal:	TPE
O-ring:	NBR
Strain relief:	According to EN 50262 version A
Temperature range:	-40°C / +100°C
Protection class:	IP 68



Progress MS FK

One-piece sealing insert / not overall length insulated

G	min mm	max mm	mm	H mm	L mm	Part. no.	
M16x1.5	7.3x2.5	9.0x4.2	18	22	5	**1300.17.090.042**	50
M20x1.5	10.5x2.5	13.0x5.0	24	23	6	**1300.20.130.050**	50
M20x1.5	12.5x2.5	15.0x5.0	24	23	6	**1300.20.150.050**	50
M25x1.5	16.0x4.0	19.0x7.0	30	28	7	**1300.25.190.070**	25
M32x1.5	19.0x3.0	22.0x6.0	36	28	8	**1300.32.220.060**	25
M32x1.5	19.0x5.0	22.0x8.0	36	28	8	**1300.32.220.080**	25
M40x1.5	23.0x4.0	26.0x7.0	46	31	8	**1300.40.260.070**	10
M40x1.5	23.5x6.0	26.5x9.0	46	31	8	**1300.40.265.090**	10
M40x1.5	25.0x3.0	28.0x6.0	46	31	8	**1300.40.280.060**	10
M40x1.5	27.0x7.0	30.0x10.0	46	31	8	**1300.40.300.100**	10
M40x1.5	29.0x6.0	32.0x9.0	46	31	8	**1300.40.320.090**	10
M40x1.5	30.0x3.5	33.0x6.5	46	31	8	**1300.40.330.065**	10
M50x1.5	31.0x8.5	34.0x11.5	55	34	9	**1300.50.340.115**	10
M50x1.5	34.0x4.0	37.0x7.0	55	34	9	**1300.50.370.070**	10
M50x1.5	36.5x2.5	40.0x6.0	55	34	9	**1300.50.400.060**	10
M50x1.5	36.5x10.0	40.0x13.5	55	34	9	**1300.50.400.135**	10
M50x1.5	38.5x10.5	42.0x14.0	55	34	9	**1300.50.420.140**	10
M63x1.5	42.0x10.0	46.0x14.0	70	37	10	**1300.63.460.140**	5
M63x1.5	42.5x2.0	46.5x6.0	70	37	10	**1300.63.465.060**	5

long entry thread PG

Progress MS FK

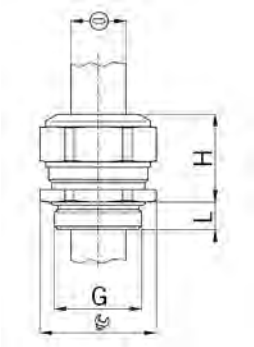
One-piece sealing insert / not overall length insulated

G	min mm	max mm	mm	H mm	L mm	Part. no.	
M16x1.5	7.3x2.5	9.0x4.2	18	22	10	**1301.17.090.042**	50
M20x1.5	10.5x2.5	13.0x5.0	24	23	10	**1301.20.130.050**	50
M20x1.5	12.5x2.5	15.0x5.0	24	23	10	**1301.20.150.050**	50
M25x1.5	16.0x4.0	19.0x7.0	30	28	11	**1301.25.190.070**	25
M32x1.5	19.0x3.0	22.0x6.0	36	28	13	**1301.32.220.060**	25
M32x1.5	19.0x5.0	22.0x8.0	36	28	13	**1301.32.220.080**	25
M40x1.5	23.0x4.0	26.0x7.0	46	31	13	**1301.40.260.070**	10
M40x1.5	23.5x6.0	26.5x9.0	46	31	13	**1301.40.265.090**	10
M40x1.5	25.0x3.0	28.0x6.0	46	31	13	**1301.40.280.060**	10
M40x1.5	27.0x7.0	30.0x10.0	46	31	13	**1301.40.300.100**	10
M40x1.5	29.0x6.0	32.0x9.0	46	31	13	**1301.40.320.090**	10
M40x1.5	30.0x3.5	33.0x6.5	46	31	13	**1301.40.330.065**	10
M50x1.5	31.0x8.5	34.0x11.5	55	34	14	**1301.50.340.115**	10
M50x1.5	34.0x4.0	37.0x7.0	55	34	14	**1301.50.370.070**	10
M50x1.5	36.5x2.5	40.0x6.0	55	34	14	**1301.50.400.060**	10
M50x1.5	36.5x10.0	40.0x13.5	55	34	14	**1301.50.400.135**	10
M50x1.5	38.5x10.5	42.0x14.0	55	34	14	**1301.50.420.140**	10
M63x1.5	42.0x10.0	46.0x14.0	70	37	14	**1301.63.460.140**	5
M63x1.5	42.5x2.0	46.5x6.0	70	37	14	**1301.63.465.060**	5

Cable Glands Nickel-Plated Brass

for Flat Cables

SHORT ENTRY THREAD PG



Material:	Nickel-plated brass
Seal:	TPE
O-ring:	NBR
Temperature range:	-40°C / +100°C
Protection class:	IP 68

Progress MS FK

One-piece sealing insert / not overall length insulated

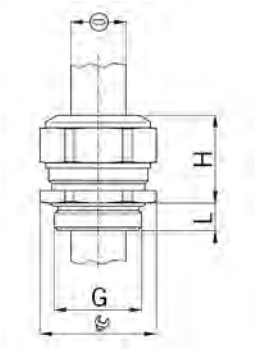
G	min mm	max mm	mm	H mm	L mm	Part. no.	
Pg 9	7.3x2.5	9.0x4.2	18	22	6.0	**1300.09.090.042**	50
Pg 13	10.5x2.5	13.0x5.0	24	23	6.0	**1300.13.130.050**	50
Pg 13	12.5x2.5	15.0x5.0	24	23	6.0	**1300.13.150.050**	50
Pg 16	10.5x2.5	13.0x5.0	24	23	6.0	**1300.16.130.050**	50
Pg 16	12.5x2.5	15.0x5.0	24	23	6.0	**1300.16.150.050**	50
Pg 21	16.0x4.0	19.0x7.0	30	28	7.5	**1300.21.190.070**	25
Pg 21	19.0x3.0	22.0x6.0	36	28	7.5	**1300.21.220.060**	25
Pg 21	19.0x5.0	22.0x8.0	36	28	7.5	**1300.21.220.080**	25
Pg 29	23.0x4.0	26.0x7.0	46	31	8.0	**1300.29.260.070**	25
Pg 29	23.5x6.0	26.5x9.0	46	31	8.0	**1300.29.265.090**	25
Pg 29	25.0x3.0	28.0x6.0	46	31	8.0	**1300.29.280.060**	25
Pg 29	27.0x7.0	30.0x10.0	46	31	8.0	**1300.29.300.100**	25
Pg 29	29.0x6.0	32.0x9.0	46	31	8.0	**1300.29.320.090**	25
Pg 29	30.0x3.5	33.0x6.5	46	31	8.0	**1300.29.330.065**	25
Pg 42	31.0x8.5	34.0x11.5	55	34	10.0	**1300.42.340.115**	10
Pg 42	34.0x4.0	37.0x7.0	55	34	10.0	**1300.42.370.070**	10
Pg 42	36.5x2.5	40.0x6.0	55	34	10.0	**1300.42.400.060**	10
Pg 42	36.5x10.0	40.0x13.5	55	34	10.0	**1300.42.400.135**	10
Pg 42	38.5x10.5	42.0x14.0	55	34	10.0	**1300.42.420.140**	10
Pg 48	42.0x10.0	46.0x14.0	65	37	11.0	**1300.48.460.140**	10
Pg 48	42.5x2.0	46.5x6.0	65	37	11.0	**1300.48.465.060**	10

Cable Glands Nickel-Plated Brass

for Flat Cables

LONG ENTRY THREAD PG

Material:	Nickel-plated brass
Seal:	TPE
O-ring:	NBR
Temperature range:	-40°C / +100°C
Protection class:	IP 68



Progress MS FK

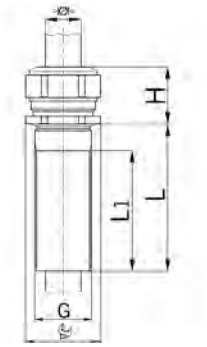
One-piece sealing insert / not overall length insulated

G	min mm	max mm	mm	H mm	L mm	Part. no.	
Pg 9	7.3x2.5	9.0x4.2	18	22	10	**1301.09.090.042**	50
Pg 13	10.5x2.5	13.0x5.0	24	23	10	**1301.13.130.050**	50
Pg 13	12.5x2.5	15.0x5.0	24	23	10	**1301.13.150.050**	50
Pg 16	10.5x2.5	13.0x5.0	24	23	10	**1301.16.130.050**	50
Pg 16	12.5x2.5	15.0x5.0	24	23	10	**1301.16.150.050**	50
Pg 21	16.0x4.0	19.0x7.0	30	28	12	**1301.21.190.070**	25
Pg 21	19.0x3.0	22.0x6.0	36	28	12	**1301.21.220.060**	25
Pg 21	19.0x5.0	22.0x8.0	36	28	12	**1301.21.220.080**	25
Pg 29	23.0x4.0	26.0x7.0	46	31	12	**1301.29.260.070**	25
Pg 29	23.5x6.0	26.5x9.0	46	31	12	**1301.29.265.090**	25
Pg 29	25.0x3.0	28.0x6.0	46	31	12	**1301.29.280.060**	25
Pg 29	27.0x7.0	30.0x10.0	46	31	12	**1301.29.300.100**	25
Pg 29	29.0x6.0	32.0x9.0	46	31	12	**1301.29.320.090**	25
Pg 29	30.0x3.5	33.0x6.5	46	31	12	**1301.29.330.065**	25
Pg 42	31.0x8.5	34.0x11.5	55	34	15	**1301.42.340.115**	10
Pg 42	34.0x4.0	37.0x7.0	55	34	15	**1301.42.370.070**	10
Pg 42	36.5x2.5	40.0x6.0	55	34	15	**1301.42.400.060**	10
Pg 42	36.5x10.0	40.0x13.5	55	34	15	**1301.42.400.135**	10
Pg 42	38.5x10.5	42.0x14.0	55	34	15	**1301.42.420.140**	10
Pg 48	42.0x10.0	46.0x14.0	65	37	15	**1301.48.460.140**	10
Pg 48	42.5x2.0	46.5x6.0	65	37	15	**1301.48.465.060**	10

Cable Glands Nickel-Plated Brass

with Special Entry Thread

Extra-long entry thread metric



Material:	Nickel-plated brass
Seal:	TPE
O-ring:	NBR
Strain relief:	According to EN 50262 version A
Temperature range:	-40°C / +100°C
Protection class:	IP 68 (up to 10 bar)
Protection type addition:	IP 69K

Progress MS L

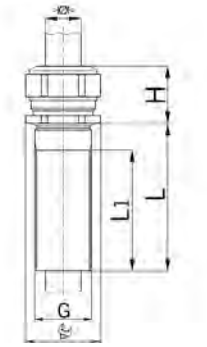
Entry thread metric, 50 mm long / Two-piece sealing insert / not overall length insulated

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Part. no.	
M16x1.5	6.0	10.5	24/18	22	50	**1100.17.50**	10
M20x1.5	8.0	15.0	30/24	23	50	**1100.20.50**	10
M25x1.5	12.5	20.5	36/30	28	50	**1100.25.50**	10
M32x1.5	17.0	25.5	46/36	28	50	**1100.32.50**	10
M40x1.5	24.0	33.0	55/46	31	50	**1100.40.50**	10

L1 = L - 10mm

Further dimensions upon request

Specially long entry thread PG



Material:	Nickel-plated brass
Seal:	TPE
O-ring:	NBR
Temperature range:	-40°C / +100°C
Protection class:	IP 68 (up to 10 bar)
Protection type addition:	IP 69K

Progress MS L

Entry thread Pg, 50 mm long / Two-piece sealing insert / not overall length insulated

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Part. no.	
Pg 11	5.5	12.0	27/21	21	50	**1100.11.50**	10
Pg 13	8.0	15.0	30/24	23	50	**1100.13.50**	10
Pg 16	8.0	15.0	30/24	23	50	**1100.16.50**	10
Pg 21	12.5	20.5	38/30	28	50	**1100.21.50**	10
Pg 29	19.0	27.5	46/38	28	50	**1100.29.50**	10

L1 = L - 10mm

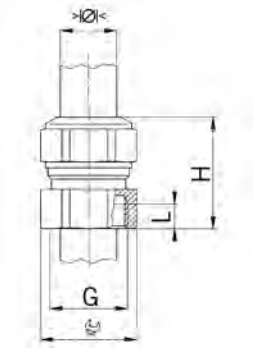
Further dimensions upon request

Cable Glands Nickel-Plated Brass

with Special Entry Thread

inner thread metric

Material:	Nickel-plated brass
Seal:	TPE
Strain relief:	According to EN 50262 version A
Temperature range:	-40°C / +100°C
Protection class:	IP 68, if the entry thread is sealed
Protection type addition:	IP 69K



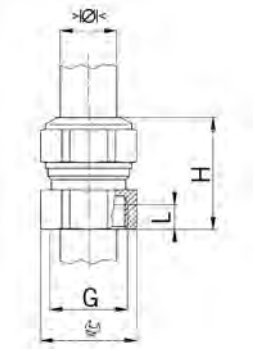
Progress MS IG

Internal thread metric / Two-piece sealing insert / not overall length insulated

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Part. no.	
M16x1.5	6.0	10.5	18	28	6	**1400.17**	25
M20x1.5	8.0	15.0	24	31	6	**1400.20**	25
M25x1.5	12.5	20.5	30	40	10	**1400.25**	25

inner thread PG

Material:	Nickel-plated brass
Seal:	TPE
Temperature range:	-40°C / +100°C
Protection class:	IP 68, if the entry thread is sealed
Protection type addition:	IP 69K



Progress MS IG

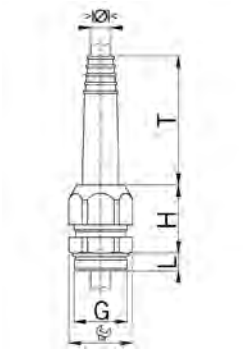
Internal thread Pg / Two-piece sealing insert / not overall length insulated

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Part. no.	
Pg 11	5.5	12.0	21	28	6	**1400.11**	25
Pg 16	8.0	15.0	24	31	6	**1400.16**	25
Pg 21	12.5	20.5	30	40	10	**1400.21**	25

Cable Glands Nickel-Plated Brass

with antikink nozzle in EPDM

short entry thread metric



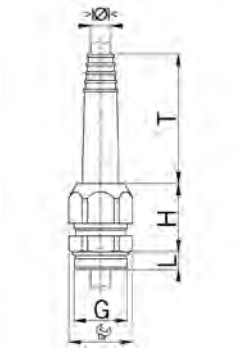
Material:	Nickel-plated brass
Seal:	NBR
O-ring:	NBR
antikink nozzle:	EPDM
Strain relief:	According to EN 50262 version A
Temperature range:	-40°C / +100°C
Protection class:	IP 68
Protection type addition:	IP 69K

Short entry thread metric / One-piece sealing insert / not overall length insulated

G	>Ø< min mm	>Ø< max mm	mm	H mm	T mm	L mm	i info	Part. no.	
M8x1.25	3.8	4.8	11	12	25	6	1	**1008.52**	50
M10x1.5	4.0	6.0	16	20	35	6	1	**1010.52**	50
M12x1.5	4.0	6.0	16	20	35	6	-	**1012.52**	50
M16x1.5	6.0	8.8	20	24	45	6	-	**1017.52**	50
M20x1.5	9.0	11.0	24	28	65	6	-	**1020.51**	25
M20x1.5	10.5	13.0	24	28	75	6	-	**1020.52**	25
M25x1.5	13.0	16.5	32	33	92	7	-	**1025.52**	10

1 = Metric coarse-pitch thread

short entry thread PG



Material:	Nickel-plated brass
Seal:	NBR
O-ring:	NBR
antikink nozzle:	EPDM
Temperature range:	-40°C / +100°C
Protection class:	IP 68
Protection type addition:	IP 69K

Short entry thread Pg / One-piece sealing insert / not overall length insulated

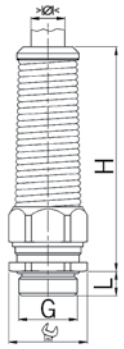
G	>Ø< min mm	>Ø< max mm	mm	H mm	T mm	L mm	Part. no.	
Pg 7	4.0	6.0	16	20	35	6	**1007.52**	50
Pg 9	6.0	8.8	20	24	45	6	**1009.52**	50
Pg 11	6.0	8.8	20	24	45	6	**1011.52**	50
Pg 13	9.0	11.0	24	28	65	6	**1013.51**	25
Pg 13	10.5	13.0	24	28	75	6	**1013.52**	25
Pg 16	9.0	11.0	24	28	65	6	**1016.51**	25
Pg 16	10.5	13.0	24	28	75	6	**1016.52**	25
Pg 21	13.0	16.5	32	33	92	7.5	**1021.51**	10

Cable Glands Nickel-Plated Brass

with Antikink Spring

short entry thread metric

Material:	Nickel-plated brass
Antikink spring:	Stainless steel A2
Seal:	TPE
O-ring:	NBR
Strain relief:	According to EN 50262 version A
Temperature range:	-40°C / +100°C
Protection class:	IP 68 (up to 10 bar)
Protection type addition:	IP 69K



Progress MS FKN

One-piece sealing insert / overall length insulated

G	>|Ø|< min mm	>|Ø|< max mm	mm	H mm	L mm	i info	Part. no.	
M8x1.25	2.5	3.0	11	49	5	1	**1060.08.52.030**	10
M8x1.25	3.5	4.0	11	49	5	1	**1060.08.52.040**	10
M10x1.5	3.0	4.0	13	52	5	1	**1060.10.52.040**	10
M10x1.5	4.0	6.0	13	52	5	1	**1060.10.52.060**	10
M12x1.5	3.5	5.0	15	57	5	-	**1060.12.52.050**	10
M12x1.5	5.0	6.5	15	57	5	-	**1060.12.52.065**	10
M12x1.5	6.5	7.5	15	57	5	-	**1060.12.52.075**	10
M16x1.5	4.5	6.0	18	66	5	-	**1060.17.52.060**	10
M16x1.5	6.0	8.0	18	66	5	-	**1060.17.52.080**	10
M16x1.5	8.0	10.5	18	66	5	-	**1060.17.52.105**	10
M20x1.5	6.0	8.0	24	86	6	-	**1060.20.52.080**	10
M20x1.5	8.0	11.0	24	86	6	-	**1060.20.52.110**	10
M20x1.5	11.0	14.5	24	86	6	-	**1060.20.52.145**	10
M25x1.5	9.5	12.5	30	99	7	-	**1060.25.52.125**	10
M25x1.5	12.5	16.0	30	99	7	-	**1060.25.52.160**	10
M25x1.5	16.0	19.0	30	99	7	-	**1060.25.52.190**	10
M32x1.5	17.0	21.0	36	109	8	-	**1060.32.52.210**	5
M32x1.5	21.0	24.5	36	109	8	-	**1060.32.52.245**	5

1 = Metric coarse-pitch thread

The following cable glands with anti-kink spring are available upon request:

- Short entry thread with short one-piece or two-piece sealing insert.
- Long entry thread with short or full-length insulating one-piece or two-piece sealing insert.

Progress MS FKN

Two-piece sealing insert / overall length insulated

G	>|Ø|< min mm	>|Ø|< max mm	mm	H mm	L mm	Part. no.	
M16x1.5	6.0	10.5	18	66	5	**1060.17.52**	10
M20x1.5	8.0	14.5	24	86	6	**1060.20.52**	10
M25x1.5	12.5	19.0	30	99	7	**1060.25.52**	10
M32x1.5	17.0	24.5	36	109	8	**1060.32.52**	5

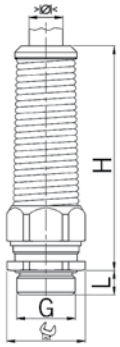
The following cable glands with anti-kink spring are available upon request:

- Short entry thread with short one-piece or two-piece sealing insert.
- Long entry thread with short or full-length insulating one-piece or two-piece sealing insert.

Cable Glands Nickel-Plated Brass

with Antikink Spring

short entry thread PG



Material:	Nickel-plated brass
Antikink spring:	Stainless steel A2
Seal:	TPE
O-ring:	NBR
Temperature range:	-40°C / +100°C
Protection class:	IP 68 (up to 10 bar)
Protection type addition:	IP 69K

Progress MS FKN

One-piece sealing insert / overall length insulated

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Part. no.	
Pg 7	3.5	5.0	15	57	6	**1060.07.52.050**	10
Pg 7	5.0	6.5	15	57	6	**1060.07.52.065**	10
Pg 7	6.5	7.5	15	57	6	**1060.07.52.075**	10
Pg 9	4.5	6.0	18	66	6	**1060.09.52.060**	10
Pg 9	6.0	8.0	18	66	6	**1060.09.52.080**	10
Pg 9	8.0	10.5	18	66	6	**1060.09.52.105**	10
Pg 11	4.5	6.0	18/21	66	6	**1060.11.52.060**	10
Pg 11	6.0	8.0	18/21	66	6	**1060.11.52.080**	10
Pg 11	8.0	10.5	18/21	66	6	**1060.11.52.105**	10
Pg 13	6.0	8.0	24	86	6	**1060.13.52.080**	10
Pg 13	8.0	11.0	24	86	6	**1060.13.52.110**	10
Pg 13	11.0	14.5	24	86	6	**1060.13.52.145**	10
Pg 16	6.0	8.0	24	86	6	**1060.16.52.080**	10
Pg 16	8.0	11.0	24	86	6	**1060.16.52.110**	10
Pg 16	11.0	14.5	24	86	6	**1060.16.52.145**	10
Pg 21	9.5	12.5	30	99	7.5	**1060.21.52.125**	5
Pg 21	12.5	16.0	30	99	7.5	**1060.21.52.160**	5
Pg 21	16.0	19.0	30	99	7.5	**1060.21.52.190**	5

The following cable glands with anti-kink spring are available upon request:

- Short entry thread with short one-piece or two-piece sealing insert.
- Long entry thread with short or full-length insulating one-piece or two-piece sealing insert.

Progress MS FKN

Two-piece sealing insert / overall length insulated

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Part. no.	
Pg 9	6.0	10.5	18	66	6	**1060.09.52**	10
Pg 11	6.0	10.5	18/21	66	6	**1060.11.52**	10
Pg 13	8.0	14.5	24	86	6	**1060.13.52**	10
Pg 16	8.0	14.5	24	86	6	**1060.16.52**	10
Pg 21	12.5	19.0	30	99	7.5	**1060.21.52**	5

The following cable glands with anti-kink spring are available upon request:

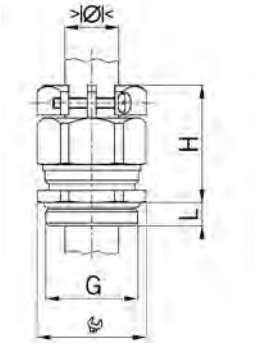
- Short entry thread with short one-piece or two-piece sealing insert.
- Long entry thread with short or full-length insulating one-piece or two-piece sealing insert.

Cable Glands Nickel-Plated Brass

with Clamps

short entry thread metric

Material:	Nickel-plated brass
Screws:	Stainless steel A2
Seal:	TPE
O-ring:	NBR
Strain relief:	According to EN 50262 version B
Temperature range:	-40°C / +100°C
Protection class:	IP 68 (up to 10 bar)
Protection type addition:	IP 69K



Progress MS KB

One-piece sealing insert / not overall length insulated

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	i info	Part. no.	
M10x1.5	3.0	4.0	13/16	24	5	1	**1800.10.03.040**	50
M10x1.5	4.0	6.0	13/16	24	5	1	**1800.10.03.060**	50
M12x1.5	5.0	6.5	15/16	26	5	-	**1800.12.03.065**	50
M12x1.5	6.5	8.0	15/16	26	5	-	**1800.12.03.080**	50

1 = Metric coarse-pitch thread

Progress MS KB

Two-piece sealing insert / not overall length insulated

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Part. no.	
M16x1.5	6.0	10.5	18/19	30	5	**1800.17.03.105**	50
M20x1.5	8.0	15.0	24	31	6	**1800.20.03.150**	50
M25x1.5	12.5	20.5	30	35	7	**1800.25.03.205**	25
M32x1.5	17.0	25.5	36	40	8	**1800.32.03.255**	25
M40x1.5	24.0	33.0	46	44	8	**1800.40.03.330**	10
M50x1.5	33.0	42.0	55	49	9	**1800.50.03.410**	10
M63x1.5	40.0	52.0	70	55	10	**1800.63.03.520**	5
M75x1.5	50.0	63.0	80	56	11	**1800.75.03.630**	1

long entry thread metric

Progress MS KB

One-piece sealing insert / not overall length insulated

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	i info	Part. no.	
M10x1.5	3.0	4.0	13/16	24	10	1	**1800.10.13.040**	50
M10x1.5	4.0	6.0	13/16	24	10	1	**1800.10.13.060**	50
M12x1.5	5.0	6.5	15/16	26	10	-	**1800.12.13.065**	50
M12x1.5	6.5	8.0	15/16	26	10	-	**1800.12.13.080**	50

1 = Metric coarse-pitch thread

Progress MS KB

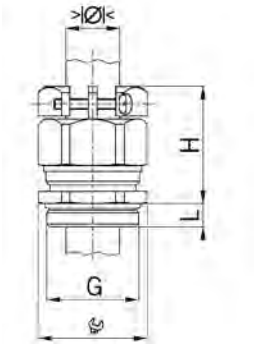
Two-piece sealing insert / not overall length insulated

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Part. no.	
M16x1.5	6.0	10.5	18/19	30	10	**1800.17.13.105**	50
M20x1.5	8.0	15.0	24	31	10	**1800.20.13.150**	50
M25x1.5	12.5	20.5	30	35	11	**1800.25.13.205**	25
M32x1.5	17.0	25.5	36	40	13	**1800.32.13.255**	25
M40x1.5	24.0	33.0	46	44	13	**1800.40.13.330**	10
M50x1.5	33.0	42.0	55	49	14	**1800.50.13.410**	10
M63x1.5	40.0	52.0	70	55	14	**1800.63.13.520**	5
M75x1.5	50.0	63.0	80	56	15	**1800.75.13.630**	1

Cable Glands Nickel-Plated Brass

with Clamps

short entry thread PG



Material:	Nickel-plated brass
Screws:	Stainless steel A2
Seal:	TPE
O-ring:	NBR
Temperature range:	-40°C / +100°C
Protection class:	IP 68 (up to 10 bar)
Protection type addition:	IP 69K

Progress MS KB

One-piece sealing insert / not overall length insulated

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Part. no.	
Pg 7	5.0	6.5	15/16	26	6	**1800.07.03.065**	50
Pg 7	6.5	8.0	15/16	26	6	**1800.07.03.080**	50

Progress MS KB

Two-piece sealing insert / not overall length insulated

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Part. no.	
Pg 9	6.0	10.5	18/19	30	6	**1800.09.03.105**	50
Pg 11	5.5	12.0	21	31	6	**1800.11.03.120**	50
Pg 13	8.0	15.0	24	31	6	**1800.13.03.150**	50
Pg 16	8.0	15.0	24	31	6	**1800.16.03.150**	50
Pg 21	12.5	20.5	30	35	7	**1800.21.03.205**	25
Pg 29	19.0	27.5	38	40	8	**1800.29.03.275**	25
Pg 36	26.0	35.0	50	47	8	**1800.36.03.350**	10
Pg 42	33.0	42.0	55	49	10	**1800.42.03.410**	10
Pg 48	37.0	49.0	65	51	11	**1800.48.03.490**	5

long entry thread PG

Progress MS KB

One-piece sealing insert / not overall length insulated

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Part. no.	
Pg 7	5.0	6.5	15/16	26	10	**1800.07.13.065**	50
Pg 7	6.5	8.0	15/16	26	10	**1800.07.13.080**	50

Progress MS KB

Two-piece sealing insert / not overall length insulated

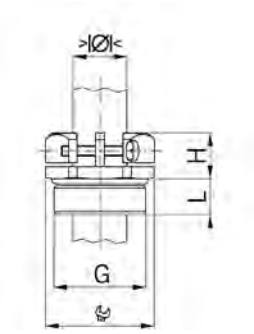
G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Part. no.	
Pg 9	6.0	10.5	18/19	30	10	**1800.09.13.105**	50
Pg 11	5.5	12.0	21	31	10	**1800.11.13.120**	50
Pg 13	8.0	15.0	24	31	10	**1800.13.13.150**	50
Pg 16	8.0	15.0	24	31	10	**1800.16.13.150**	50
Pg 21	12.5	20.5	30	35	12	**1800.21.13.205**	25
Pg 29	19.0	27.5	38	40	12	**1800.29.13.275**	25
Pg 36	26.0	35.0	50	47	15	**1800.36.13.350**	10
Pg 42	33.0	42.0	55	49	15	**1800.42.13.410**	10
Pg 48	37.0	49.0	65	51	15	**1800.48.13.490**	5

Cable Glands Nickel-Plated Brass

with Clamps

Entry thread metric

Material:	Nickel-plated brass
Screws:	Stainless steel A2
Strain relief:	According to EN 50262 version B
Temperature range:	-50°C / +300°C
Protection class:	IP 20



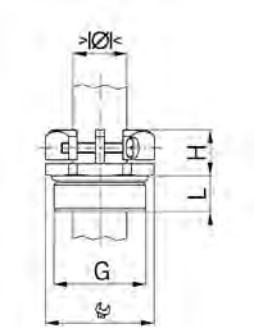
Progress MS KBST

Mechanical strain relief B

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Part. no.	
M12x1.5	5.0	8.0	16	10	10	**1812.02**	50
M16x1.5	6.0	10.5	19	11	10	**1817.02**	50
M20x1.5	8.0	15.0	24	12	10	**1820.02**	50
M25x1.5	12.5	20.5	30	13	11	**1825.02**	25
M32x1.5	17.0	25.5	36	15	13	**1832.02**	25
M40x1.5	24.0	33.0	46	17	13	**1840.02**	10

Entry thread PG

Material:	Nickel-plated brass
Screws:	Stainless steel A2
Temperature range:	-50°C / +300°C
Protection class:	IP 20



Progress MS KBST

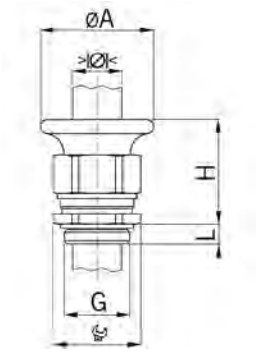
Mechanical strain relief B

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Part. no.	
Pg 7	4.0	8.0	17	10	5	**1807.02**	50
Pg 9	6.0	10.0	20	11	6	**1809.02**	50
Pg 11	6.0	12.0	22	11	6	**1811.02**	50
Pg 13	7.0	15.0	24	11	7	**1813.02**	50
Pg 16	9.0	17.0	27	12	7	**1816.02**	50
Pg 21	12.0	22.0	35	14	8	**1821.02**	25
Pg 29	18.0	30.0	42	15	8	**1829.02**	10
Pg 36	24.0	36.0	55	18	10	**1836.02**	10

Cable Glands Nickel-Plated Brass

with Trumpet

short entry thread metric



Material:	Nickel-plated brass
Seal:	TPE
O-ring:	NBR
Strain relief:	According to EN 50262 version A
Temperature range:	-40°C / +100°C
Protection class:	IP 68 (up to 10 bar)
Protection type addition:	IP 69K

Progress MS T

Two-piece sealing insert / not overall length insulated

G	>|Ø|< min mm	>|Ø|< max mm	mm	øA mm	H mm	L mm	Part. no.	
M16x1.5	6.0	10.5	18	28	31	5	**1800.10.17**	50
M20x1.5	8.0	15.0	24	34	32	6	**1800.10.20**	50
M25x1.5	12.5	20.5	30	44	38	7	**1800.10.25**	25
M32x1.5	17.0	25.5	36	50	44	8	**1800.10.32**	25
M40x1.5	24.0	33.0	46	57	46	8	**1800.10.40**	10

long entry thread metric

Progress MS T

Two-piece sealing insert / not overall length insulated

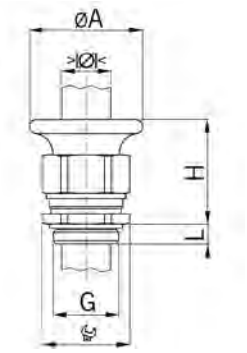
G	>|Ø|< min mm	>|Ø|< max mm	mm	øA mm	H mm	L mm	Part. no.	
M16x1.5	6.0	10.5	18	28	31	10	**1800.11.17**	50
M20x1.5	8.0	15.0	24	34	32	10	**1800.11.20**	50
M25x1.5	12.5	20.5	30	44	38	11	**1800.11.25**	25
M32x1.5	17.0	25.5	36	50	44	13	**1800.11.32**	25
M40x1.5	24.0	33.0	46	57	46	13	**1800.11.40**	10

Cable Glands Nickel-Plated Brass

with Trumpet

short entry thread PG

Material:	Nickel-plated brass
Seal:	TPE
O-ring:	NBR
Temperature range:	-40°C / +100°C
Protection class:	IP 68 (up to 10 bar)
Protection type addition:	IP 69K



Progress MS T

Two-piece sealing insert / not overall length insulated

G	>Ø< min mm	>Ø< max mm	mm	øA mm	H mm	L mm	Part. no.	
Pg 9	6.0	10.5	18	28	31	6	**1800.10.09**	50
Pg 11	5.5	12.0	21	30	31	6	**1800.10.11**	50
Pg 13	8.0	15.0	24	34	32	6	**1800.10.13**	50
Pg 16	8.0	15.0	24	34	32	6	**1800.10.16**	50
Pg 21	12.5	20.5	30	44	38	7.5	**1800.10.21**	25
Pg 29	19.0	27.5	38	50	44	8	**1800.10.29**	10

long entry thread PG

Progress MS T

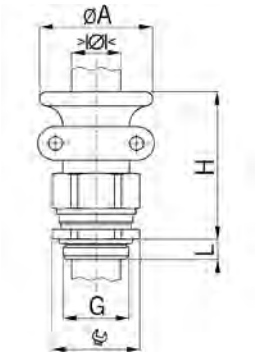
Two-piece sealing insert / not overall length insulated

G	>Ø< min mm	>Ø< max mm	mm	øA mm	H mm	L mm	Part. no.	
Pg 9	6.0	10.5	18	28	31	10	**1800.11.09**	50
Pg 11	5.5	12.0	21	30	31	10	**1800.11.11**	50
Pg 13	8.0	15.0	24	34	32	10	**1800.11.13**	50
Pg 16	8.0	15.0	24	34	32	10	**1800.11.16**	50
Pg 21	12.5	20.5	30	44	38	12	**1800.11.21**	25
Pg 29	19.0	27.5	38	50	44	12	**1800.11.29**	10

Cable Glands Nickel-Plated Brass

with Trumpet / Clamps

short entry thread metric



Material:	Nickel-plated brass
Screws:	Stainless steel A2
Seal:	TPE
O-ring:	NBR
Strain relief:	According to EN 50262 version B
Temperature range:	-40°C / +100°C
Protection class:	IP 68 (up to 10 bar)
Protection type addition:	IP 69K

Progress MS T+KB

Two-piece sealing insert / not overall length insulated

G	>Ø< min mm	>Ø< max mm	mm	øA mm	H mm	L mm	Part. no.	
M16x1.5	6.0	10.5	18	28	43	5	**1801.10.17**	50
M20x1.5	8.0	15.0	24	34	46	6	**1801.10.20**	50
M25x1.5	12.5	20.5	30	44	52	7	**1801.10.25**	25
M32x1.5	17.0	25.5	36	50	59	8	**1801.10.32**	10
M40x1.5	24.0	33.0	46	57	59	8	**1801.10.40**	5

long entry thread metric

Progress MS T+KB

Two-piece sealing insert / not overall length insulated

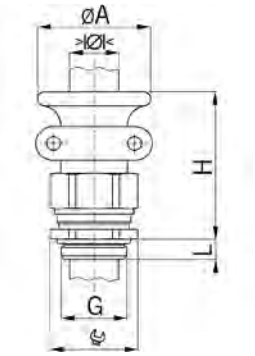
G	>Ø< min mm	>Ø< max mm	mm	øA mm	H mm	L mm	Part. no.	
M16x1.5	6.0	10.5	18	28	43	10	**1801.11.17**	50
M20x1.5	8.0	15.0	24	34	46	10	**1801.11.20**	50
M25x1.5	12.5	20.5	30	44	52	11	**1801.11.25**	25
M32x1.5	17.0	25.5	36	50	59	13	**1801.11.32**	10
M40x1.5	24.0	33.0	46	57	59	13	**1801.11.40**	5

Cable Glands Nickel-Plated Brass

with Trumpet / Clamps

Short entry thread PG

Material:	Nickel-plated brass
Screws:	Stainless steel A2
Seal:	TPE
O-ring:	NBR
Temperature range:	-40°C / +100°C
Protection class:	IP 68 (up to 10 bar)
Protection type addition:	IP 69K



Progress MS T+KB

Two-piece sealing insert / not overall length insulated

G	>Ø< min mm	>Ø< max mm	mm	øA mm	H mm	L mm	Part. no.	
Pg 9	6.0	10.5	18	28	43	6	**1801.10.09**	50
Pg 11	5.5	12.0	21	30	43	6	**1801.10.11**	50
Pg 13	8.0	15.0	24	34	46	6	**1801.10.13**	50
Pg 16	8.0	15.0	24	34	46	6	**1801.10.16**	50
Pg 21	12.5	20.5	30	44	52	7.5	**1801.10.21**	25
Pg 29	19.0	27.5	38	50	59	8	**1801.10.29**	10

Long entry thread PG

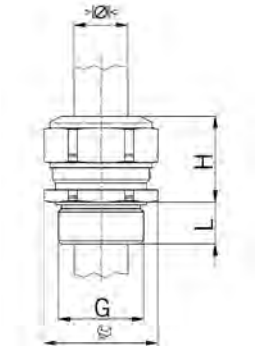
Progress MS T+KB

Two-piece sealing insert / not overall length insulated

G	>Ø< min mm	>Ø< max mm	mm	øA mm	H mm	L mm	Part. no.	
Pg 9	6.0	10.5	18	28	43	10	**1801.11.09**	50
Pg 11	5.5	12.0	21	30	43	10	**1801.11.11**	50
Pg 13	8.0	15.0	24	34	46	10	**1801.11.13**	50
Pg 16	8.0	15.0	24	34	46	10	**1801.11.16**	50
Pg 21	12.5	20.5	30	44	52	12	**1801.11.21**	25
Pg 29	19.0	27.5	38	50	59	12	**1801.11.29**	10

Cable Glands Stainless Steel A2

Long entry thread metric



Material:	CrNi stainless steel A2 (DIN EN 1.4305 / AISI 303)
Identification:	1 groove
Seal:	TPE
O-ring:	NBR
Strain relief:	According to EN 50262 version A
Temperature range:	-40°C / +100°C
Protection class:	IP 68 (up to 10 bar)
Protection type addition:	IP 69K

Progress S2

One-piece sealing insert / not overall length insulated

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	i info	Part. no.	
M8x1.25	2.5	3.5	11	14	10	1	**1100.08.94.035**	50
M8x1.25	3.5	5.0	11	14	10	1	**1100.08.94.050**	50
M10x1.5	3.0	4.0	13	15	10	1	**1100.10.94.040**	50
M10x1.5	4.0	6.0	13	15	10	1	**1100.10.94.060**	50
M12x1.5	3.5	5.0	17	17	10	-	**1100.12.94.050**	50
M12x1.5	5.0	6.5	17	17	10	-	**1100.12.94.065**	50
M12x1.5	6.5	8.0	17	17	10	-	**1100.12.94.080**	50
M16x1.5	8.0	10.5	19	20	10	-	**1100.17.94.105**	50
M20x1.5	11.0	15.0	24	21	10	-	**1100.20.94.150**	50
M25x1.5	16.0	20.5	30	25	11	-	**1100.25.94.205**	25
M32x1.5	21.0	25.5	36	28	13	-	**1100.32.94.255**	25
M40x1.5	28.5	33.0	46	31	13	-	**1100.40.94.330**	10
M50x1.5	37.0	42.0	55	34	14	-	**1100.50.94.420**	10
M63x1.5	46.0	52.0	70	37	14	-	**1100.63.94.520**	5

1 = Metric coarse-pitch thread

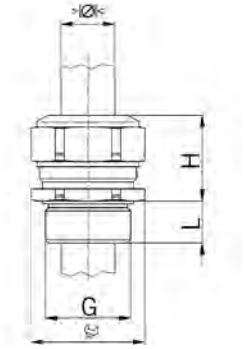
Progress S2

Two-piece sealing insert / not overall length insulated

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Part. no.	
M16x1.5	6.0	10.5	19	20	10	**1100.17.94**	50
M20x1.5	8.0	15.0	24	21	10	**1100.20.94**	50
M25x1.5	12.5	20.5	30	25	11	**1100.25.94**	25
M32x1.5	17.0	25.5	36	28	13	**1100.32.94**	25
M40x1.5	24.0	33.0	46	31	13	**1100.40.94**	10
M50x1.5	33.0	42.0	55	34	14	**1100.50.94**	10
M63x1.5	40.0	52.0	70	37	14	**1100.63.94**	5

LONG ENTRY THREAD PG

Material:	CrNi stainless steel A2 (DIN EN 1.4305 / AISI 303)
Identification:	1 groove
Seal:	TPE
O-ring:	NBR
Temperature range:	-40°C / +100°C
Protection class:	IP 68 (up to 10 bar)
Protection type addition:	IP 69K



Progress S2

ONE-PIECE SEALING INSERT / NOT OVERALL LENGTH INSULATED

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Part. no.	
Pg 7	3.5	5.0	17	17	10	**1100.07.94.050**	50
Pg 7	5.0	6.5	17	17	10	**1100.07.94.065**	50
Pg 7	6.5	8.0	17	17	10	**1100.07.94.080**	50
Pg 9	8.0	10.5	19	20	10	**1100.09.94.105**	50
Pg 11	8.5	12.0	22	21	10	**1100.11.94.120**	50
Pg 13	11.0	15.0	24	21	10	**1100.13.94.150**	50
Pg 16	11.0	15.0	24	21	10	**1100.16.94.150**	50
Pg 21	16.0	20.5	30	25	12	**1100.21.94.205**	25
Pg 29	23.0	27.5	41	28	12	**1100.29.94.275**	25
Pg 36	30.5	35.0	50	32	15	**1100.36.94.350**	10
Pg 42	37.0	42.0	55	34	15	**1100.42.94.420**	10
Pg 48	43.0	49.0	65	37	15	**1100.48.94.490**	10

Progress S2

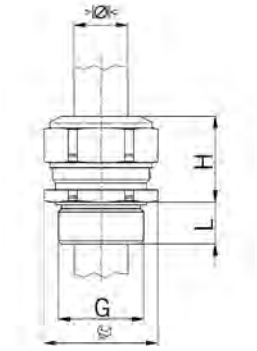
TWO-PIECE SEALING INSERT / NOT OVERALL LENGTH INSULATED

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Part. no.	
Pg 9	6.0	10.5	19	20	10	**1100.09.94**	50
Pg 11	5.5	12.0	21	21	10	**1100.11.94**	50
Pg 13	8.0	15.0	24	21	10	**1100.13.94**	50
Pg 16	8.0	15.0	24	21	10	**1100.16.94**	50
Pg 21	12.5	20.5	30	25	12	**1100.21.94**	25
Pg 29	19.0	27.5	41	28	12	**1100.29.94**	25
Pg 36	26.0	35.0	50	32	15	**1100.36.94**	10
Pg 42	33.0	42.0	55	34	15	**1100.42.94**	10
Pg 48	37.0	49.0	65	37	15	**1100.48.94**	10

Cable Glands Stainless Steel A2

for High Temperature Applications

LONG ENTRY THREAD METRIC



Material:	CrNi stainless steel A2 (DIN EN 1.4305 / AISI 303)
Identification:	1 groove
Seal:	FPM
O-ring:	FPM
Strain relief:	According to EN 50262 version A
Temperature range:	-40°C / +200°C
Protection class:	IP 68 (up to 10 bar)
Protection type addition:	IP 69K

Progress S2 HT

One-piece sealing insert / not overall length insulated

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	i info	Part. no.	
M8x1.25	2.5	3.5	11	14	10	1	**1100.08.96.035**	50
M8x1.25	3.5	5.0	11	14	10	1	**1100.08.96.050**	50
M10x1.5	3.0	4.0	13	15	10	1	**1100.10.96.040**	50
M10x1.5	4.0	6.0	13	15	10	1	**1100.10.96.060**	50
M12x1.5	3.5	5.0	17	17	10	-	**1100.12.96.050**	50
M12x1.5	5.0	6.5	17	17	10	-	**1100.12.96.065**	50
M12x1.5	6.5	8.0	17	17	10	-	**1100.12.96.080**	50
M16x1.5	8.0	10.5	19	20	10	-	**1100.17.96.105**	50
M20x1.5	11.0	15.0	24	21	10	-	**1100.20.96.150**	50
M25x1.5	16.0	20.5	30	25	11	-	**1100.25.96.205**	25
M32x1.5	21.0	25.5	36	28	13	-	**1100.32.96.255**	25
M40x1.5	28.5	33.0	46	31	13	-	**1100.40.96.330**	10
M50x1.5	37.0	42.0	55	34	14	-	**1100.50.96.420**	10
M63x1.5	46.0	52.0	70	37	14	-	**1100.63.96.520**	5

1 = Metric coarse-pitch thread

Progress S2 HT

Two-piece sealing insert / not overall length insulated

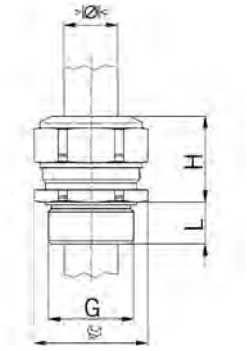
G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Part. no.	
M16x1.5	6.0	10.5	19	20	10	**1100.17.96**	50
M20x1.5	8.0	15.0	24	21	10	**1100.20.96**	50
M25x1.5	12.5	20.5	30	25	11	**1100.25.96**	25
M32x1.5	17.0	25.5	36	28	13	**1100.32.96**	25
M40x1.5	24.0	33.0	46	31	13	**1100.40.96**	10
M50x1.5	33.0	42.0	55	34	14	**1100.50.96**	10
M63x1.5	40.0	52.0	70	37	14	**1100.63.96**	5

Cable Glands Stainless Steel A2

for High Temperature Applications

LONG ENTRY THREAD PG

Material:	CrNi stainless steel A2 (DIN EN 1.4305 / AISI 303)
Identification:	1 groove
Seal:	FPM
O-ring:	FPM
Temperature range:	-40°C / +200°C
Protection class:	IP 68 (up to 10 bar)
Protection type addition:	IP 69K



Progress S2 HT

One-piece sealing insert / not overall length insulated

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Part. no.	
Pg 7	3.5	5.0	17	17	10	**1100.07.96.050**	50
Pg 7	5.0	6.5	17	17	10	**1100.07.96.065**	50
Pg 7	6.5	8.0	17	17	10	**1100.07.96.080**	50
Pg 9	8.0	10.5	19	20	10	**1100.09.96.105**	50
Pg 11	8.5	12.0	22	21	10	**1100.11.96.120**	50
Pg 13	11.0	15.0	24	21	10	**1100.13.96.150**	50
Pg 16	11.0	15.0	24	21	10	**1100.16.96.150**	50
Pg 21	16.0	20.5	30	25	12	**1100.21.96.205**	25
Pg 29	23.0	27.5	41	28	12	**1100.29.96.275**	25
Pg 36	30.5	35.0	50	32	15	**1100.36.96.350**	10
Pg 42	37.0	42.0	55	34	15	**1100.42.96.420**	10
Pg 48	43.0	49.0	65	37	15	**1100.48.96.490**	10

Progress S2 HT

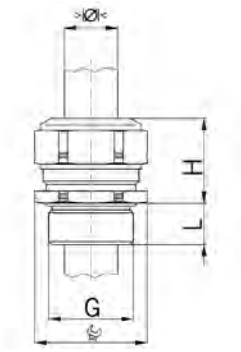
Two-piece sealing insert / not overall length insulated

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Part. no.	
Pg 9	6.0	10.5	19	20	10	**1100.09.96**	50
Pg 11	5.5	12.0	22	21	10	**1100.11.96**	50
Pg 13	8.0	15.0	24	21	10	**1100.13.96**	50
Pg 16	8.0	15.0	24	21	10	**1100.16.96**	50
Pg 21	12.5	20.5	30	25	12	**1100.21.96**	25
Pg 29	19.0	27.5	41	28	12	**1100.29.96**	25
Pg 36	26.0	35.0	50	32	15	**1100.36.96**	10
Pg 42	33.0	42.0	55	34	15	**1100.42.96**	10
Pg 48	37.0	49.0	65	37	15	**1100.48.96**	10

Cable Glands Stainless & Acid-Resistant Steel A4

for High Temperature Applications

LONG ENTRY THREAD METRIC



Material:	Stainless and acid resistant steel A4 CrNiMo (DIN EN 1.4435 / AISI 316L)
Identification:	2 grooves
Seal:	FPM
O-ring:	FPM
Strain relief:	According to EN 50262 version A
Temperature range:	-40°C / +200°C
Protection class:	IP 68 (up to 10 bar)
Protection type addition:	IP 69K

Progress S4 HT

One-piece sealing insert / not overall length insulated

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	i info	Part. no.	
M8x1.25	2.5	3.5	11	14	10	1	**1100.08.98.035**	50
M8x1.25	3.5	5.0	11	14	10	1	**1100.08.98.050**	50
M10x1.5	3.0	4.0	13	15	10	1	**1100.10.98.040**	50
M10x1.5	4.0	6.0	13	15	10	1	**1100.10.98.060**	50
M12x1.5	3.5	5.0	17	17	10	-	**1100.12.98.050**	50
M12x1.5	5.0	6.5	17	17	10	-	**1100.12.98.065**	50
M12x1.5	6.5	8.0	17	17	10	-	**1100.12.98.080**	50
M16x1.5	8.0	10.5	19	20	10	-	**1100.17.98.105**	50
M20x1.5	11.0	15.0	24	21	10	-	**1100.20.98.150**	50
M25x1.5	16.0	20.5	30	25	11	-	**1100.25.98.205**	25
M32x1.5	21.0	25.5	36	28	13	-	**1100.32.98.255**	25
M40x1.5	28.5	33.0	46	31	13	-	**1100.40.98.330**	10
M50x1.5	37.0	42.0	55	34	14	-	**1100.50.98.420**	10
M63x1.5	46.0	52.0	70	37	14	-	**1100.63.98.520**	5

1 = Metric coarse-pitch thread

Progress S4 HT

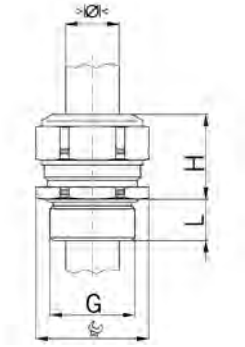
two-piece sealing insert / not overall length insulated

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Part. no.	
M16x1.5	6.0	10.5	19	20	10	**1100.17.98**	50
M20x1.5	8.0	15.0	24	21	10	**1100.20.98**	50
M25x1.5	12.5	20.5	30	25	11	**1100.25.98**	25
M32x1.5	17.0	25.5	36	28	13	**1100.32.98**	25
M40x1.5	24.0	33.0	46	31	13	**1100.40.98**	10
M50x1.5	33.0	42.0	55	34	14	**1100.50.98**	10
M63x1.5	40.0	52.0	70	37	14	**1100.63.98**	5

for High Temperature Applications

LONG ENTRY THREAD PG

Material:	Stainless and acid resistant steel A4 CrNiMo (DIN EN 1.4435 / AISI 316L)
Identification:	2 grooves
Seal:	FPM
O-ring:	FPM
Temperature range:	-40°C / +200°C
Protection class:	IP 68 (up to 10 bar)
Protection type addition:	IP 69K



Progress S4 HT

One-piece sealing insert / not overall length insulated

G	>|Ø|< min mm	>|Ø|< max mm	mm	H mm	L mm	Part. no.	
Pg 7	3.5	5.0	17	17	10	**1100.07.98.050**	50
Pg 7	5.0	6.5	17	17	10	**1100.07.98.065**	50
Pg 7	6.5	8.0	17	17	10	**1100.07.98.080**	50
Pg 9	8.0	10.5	19	20	10	**1100.09.98.105**	50
Pg 11	8.5	12.0	22	21	10	**1100.11.98.120**	50
Pg 13	11.0	15.0	24	21	10	**1100.13.98.150**	50
Pg 16	11.0	15.0	24	21	10	**1100.16.98.150**	50
Pg 21	16.0	20.5	30	25	12	**1100.21.98.205**	25
Pg 29	23.0	27.5	41	28	12	**1100.29.98.275**	25
Pg 36	30.5	35.0	50	32	15	**1100.36.98.350**	10
Pg 42	37.0	42.0	55	34	15	**1100.42.98.420**	10
Pg 48	43.0	49.0	65	37	15	**1100.48.98.490**	10

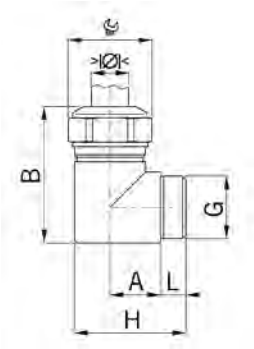
Progress S4 HT

Two-piece sealing insert / not overall length insulated

G	>|Ø|< min mm	>|Ø|< max mm	mm	H mm	L mm	Part. no.	
Pg 9	6.0	10.5	19	20	10	**1100.09.98**	50
Pg 11	5.5	12.0	22	21	10	**1100.11.98**	50
Pg 13	8.0	15.0	24	21	10	**1100.13.98**	50
Pg 16	8.0	15.0	24	21	10	**1100.16.98**	50
Pg 21	12.5	20.5	30	25	12	**1100.21.98**	25
Pg 29	19.0	27.5	41	28	12	**1100.29.98**	25
Pg 36	26.0	35.0	50	32	15	**1100.36.98**	10
Pg 42	33.0	42.0	55	34	15	**1100.42.98**	10
Pg 48	37.0	49.0	65	37	15	**1100.48.98**	10

ELBOW 90°

SHORT ENTRY THREAD METRIC



MATERIAL:	NICKEL-PLATED BRASS
SEAL:	TPE
STRAIN RELIEF:	ACCORDING TO EN 50262 VERSION A
TEMPERATURE RANGE:	-40°C / +100°C
PROTECTION CLASS:	IP 68
ENTRY THREAD:	IP 68, IF THE ENTRY THREAD IS SEALED

PROGRESS MS W90

ONE-PIECE SEALING INSERT / NOT OVERALL LENGTH INSULATED

G	>|Ø|< min mm	>|Ø|< max mm	mm	H mm	L mm	A mm	B mm	PART. NO.	
M12x1.5	5.0	6.5	15	27	8	11	32	**5200.12**	50

PROGRESS MS W90

TWO-PIECE SEALING INSERT / NOT OVERALL LENGTH INSULATED

G	>|Ø|< min mm	>|Ø|< max mm	mm	H mm	L mm	A mm	B mm	PART. NO.	
M16x1.5	6.0	10.5	18	30	8	13	36	**5200.17**	50
M20x1.5	8.0	15.0	24	35	8	16	44	**5200.20**	50
M25x1.5	12.5	20.5	30	44	10	20	52	**5200.25**	25
M32x1.5	17.0	25.5	36	50	10	23	60	**5200.32**	25
M40x1.5	24.0	33.0	46	60	10	28	72	**5200.40**	10

LONG ENTRY THREAD METRIC

PROGRESS MS W90

ONE-PIECE SEALING INSERT / NOT OVERALL LENGTH INSULATED

G	>|Ø|< min mm	>|Ø|< max mm	mm	H mm	L mm	A mm	B mm	PART. NO.	
M12x1.5	5.0	6.5	15	30	12	11	32	**5210.12**	50

PROGRESS MS W90

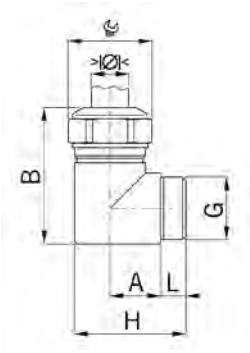
TWO-PIECE SEALING INSERT / NOT OVERALL LENGTH INSULATED

G	>|Ø|< min mm	>|Ø|< max mm	mm	H mm	L mm	A mm	B mm	PART. NO.	
M16x1.5	6.0	10.5	18	34	12	13	36	**5210.17**	50
M20x1.5	8.0	15.0	24	39	12	16	44	**5210.20**	50
M25x1.5	12.5	20.5	30	48	14	20	52	**5210.25**	25
M32x1.5	17.0	25.5	36	56	16	23	60	**5210.32**	25
M40x1.5	24.0	33.0	46	66	16	28	72	**5210.40**	10

Elbow 90°

short entry thread PG

Material:	Nickel-plated brass
Seal:	TPE
Temperature range:	-40°C / +100°C
Protection class:	IP 68
Entry thread:	IP 68, if the entry thread is sealed



Progress MS W90

One-piece sealing insert / not overall length insulated

G	>|Ø|< min mm	>|Ø|< max mm	mm	H mm	L mm	A mm	B mm	Part. no.	
Pg 7	5.0	6.5	15	27	8	11	32	**5200.07**	50

Progress MS W90

Two-piece sealing insert / not overall length insulated

G	>|Ø|< min mm	>|Ø|< max mm	mm	H mm	L mm	A mm	B mm	Part. no.	
Pg 9	6.0	10.5	18	30	8	13	36	**5200.09**	50
Pg 11	5.5	12.0	21	35	8	14	40	**5200.11**	50
Pg 13	8.0	15.0	24	41	10	16	44	**5200.13**	50
Pg 16	8.0	15.0	24	41	10	16	44	**5200.16**	50
Pg 21	12.5	20.5	30	44	10	20	52	**5200.21**	25
Pg 29	19.0	27.5	38	56	10	24	65	**5200.29**	10

long entry thread PG

Progress MS W90

One-piece sealing insert / not overall length insulated

G	>|Ø|< min mm	>|Ø|< max mm	mm	H mm	L mm	A mm	B mm	Part. no.	
Pg 7	5.0	6.5	15	30	11	11	32	**5210.07**	50

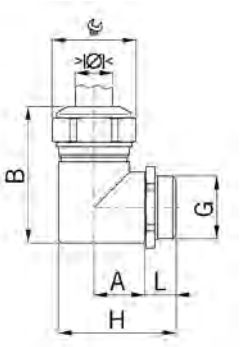
Progress MS W90

Two-piece sealing insert / not overall length insulated

G	>|Ø|< min mm	>|Ø|< max mm	mm	H mm	L mm	A mm	B mm	Part. no.	
Pg 9	6.0	10.5	18	34	11	13	36	**5210.09**	50
Pg 11	5.5	12.0	21	38	11	14	40	**5210.11**	50
Pg 13	8.0	15.0	24	44	13	16	44	**5210.13**	50
Pg 16	8.0	15.0	24	44	13	16	44	**5210.16**	50
Pg 21	12.5	20.5	30	48	14	20	52	**5210.21**	25
Pg 29	19.0	27.5	38	60	14	65	24	**5210.29**	10

ELBOW 90°

LONG ENTRY THREAD METRIC WITH LOCK NUT



MATERIAL:	NICKEL-PLATED BRASS
SEAL:	TPE
O-RING:	NBR
STRAIN RELIEF:	ACCORDING TO EN 50262 VERSION A
TEMPERATURE RANGE:	-40°C / +100°C
PROTECTION CLASS:	IP 68

PROGRESS MS W90

ONE-PIECE SEALING INSERT / NOT OVERALL LENGTH INSULATED

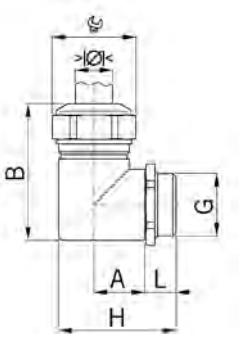
G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	A mm	B mm	PART. NO.	
M12x1.5	5.0	6.5	15	30	12	11	32	**5215.12**	50

PROGRESS MS W90

TWO-PIECE SEALING INSERT / NOT OVERALL LENGTH INSULATED

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	A mm	B mm	PART. NO.	
M16x1.5	6.0	10.5	18	34	12	13	36	**5215.17**	50
M20x1.5	8.0	15.0	24	39	12	16	44	**5215.20**	50
M25x1.5	12.5	20.5	30	48	14	20	52	**5215.25**	25
M32x1.5	17.0	25.5	36	56	16	23	60	**5215.32**	25
M40x1.5	24.0	33.0	46	66	16	28	72	**5215.40**	10

LONG ENTRY THREAD PG WITH LOCK NUT



MATERIAL:	NICKEL-PLATED BRASS
SEAL:	TPE
O-RING:	NBR
TEMPERATURE RANGE:	-40°C / +100°C
PROTECTION CLASS:	IP 68

PROGRESS MS W90

ONE-PIECE SEALING INSERT / NOT OVERALL LENGTH INSULATED

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	A mm	B mm	PART. NO.	
PG 7	5.0	6.5	15	30	11	11	32	**5215.07**	50

PROGRESS MS W90

TWO-PIECE SEALING INSERT / NOT OVERALL LENGTH INSULATED

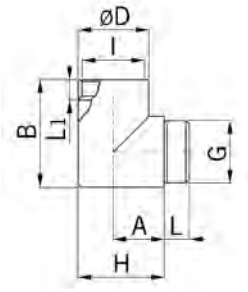
G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	A mm	B mm	PART. NO.	
PG 9	6.0	10.5	18	34	11	13	36	**5215.09**	50
PG 11	5.5	12.0	21	38	11	14	40	**5215.11**	50
PG 13	8.0	15.0	24	44	13	16	44	**5215.13**	50
PG 16	8.0	15.0	24	44	13	16	44	**5215.16**	50
PG 21	12.5	20.5	30	48	14	20	52	**5215.21**	25
PG 29	19.0	27.5	38	60	14	24	65	**5215.29**	10

Elbow 90° Nickel-Plated Brass

with Internal & External Thread

Entry thread metric

Material:	Nickel-plated brass
O-ring:	NBR
Temperature range:	-40°C / +100°C
Protection class:	IP 54
Protection type addition:	IP 68, if the entry thread is sealed



With O-ring

G	I	D mm	L mm	L1 mm	A mm	B mm	H mm	Part. no.	
M12x1.5	**M12x1.5**	15	5.0	7	13	25	20	**5612**	50
M16x1.5	**M16x1.5**	19	6.5	7	16	29	26	**5617**	50
M20x1.5	**M20x1.5**	24	6.0	10	19	37	31	**5620**	50
M25x1.5	**M25x1.5**	29	7.5	10	23	42	37	**5625**	25
M32x1.5	**M32x1.5**	36	8.5	11	26	50	44	**5632**	25
M40x1.5	**M40x1.5**	46	9.5	17	34	67	57	**5640**	10
M50x1.5	**M50x1.5**	56	9.0	17	41	77	69	**5650**	10

Entry thread PG

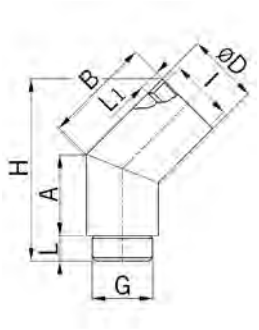
With O-ring

G	I	D mm	L mm	L1 mm	A mm	B mm	H mm	Part. no.	
Pg 7	**Pg 7**	16	7	7	13	23	21	**5607**	50
Pg 9	**Pg 9**	18	7	7	15	26	24	**5609**	50
Pg 11	**Pg 11**	22	8	8	18	31	29	**5611**	50
Pg 13	**Pg 13**	24	10	10	19	34	31	**5613**	50
Pg 16	**Pg 16**	26	10	10	20	36	33	**5616**	50
Pg 21	**Pg 21**	34	11	11	24	46	41	**5621**	25
Pg 29	**Pg 29**	41	11	11	28	52	49	**5629**	20
Pg 36	**Pg 36**	52	12	17	38	82	64	**5636**	10

Elbows 45° nickel-plated brass

with Internal & External Thread

ENTRY THREAD METRIC



Material:	Nickel-plated brass
O-ring:	NBR
Temperature range:	-40°C / +100°C
Protection class:	IP 54
Protection type addition:	IP 68, if the entry thread is sealed

With O-Ring

G	I	D mm	L mm	L1 mm	A mm	B mm	H mm	Part. no.	
M16x1.5	M16x1.5	19	6.5	7	13	18	26	**5717**	50
M20x1.5	M20x1.5	24	7.5	10	17	23	33	**5720**	50
M25x1.5	M25x1.5	29	7.0	10	18	25	36	**5725**	25
M32x1.5	M32x1.5	36	8.5	11	21	28	41	**5732**	25

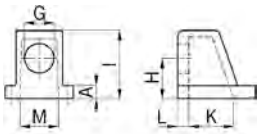
ENTRY THREAD PG

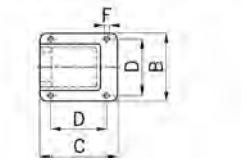
With O-Ring

G	I	D mm	L mm	L1 mm	A mm	B mm	H mm	Part. no.	
Pg 11	Pg 11	22	8	11	16	20	30	**5711**	50
Pg 16	Pg 16	26	10	12	18	23	34	**5716**	50
Pg 21	Pg 21	34	11	12	21	26	39	**5721**	25
Pg 29	Pg 29	41	8	16	27	32	-	**5729**	25

Entry thread metric

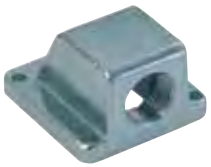
Flanged elbow 90° aluminum





Material: Aluminium
Seal: NBR
Temperature range: -40°C / +100°C
Protection class: IP 65
Properties: For splash water-proof mounting on casing walls with entry thread for cable glands or conduit glands

With 1 entry thread



G	B/C mm	D mm	F mm	A mm	H mm	I mm	K mm	L mm	M mm	Part. no.	
M16x1.5	45 x 48	37	4.3	8	15.5	30	28	10.5	24	**5517**	10
M20x1.5	53 x 56	44	5.5	8	18.0	35	34	10.5	24	**5520**	10
M25x1.5	63 x 65	54	5.5	8	22.5	42	43	11.0	35	**5525**	5
M32x1.5	71 x 75	60	5.5	10	27.0	52	53	11.0	38	**5532**	5
M40x1.5	71 x 75	60	5.5	10	27.0	52	53	11.0	38	**5540**	5
M50x1.5	89 x 93	72	6.5	11	33.5	69	65	18.0	50	**5550**	2
M63x1.5	96 x 114	84	4.3	10	37.0	74	86	14.0	67	**5563**	2

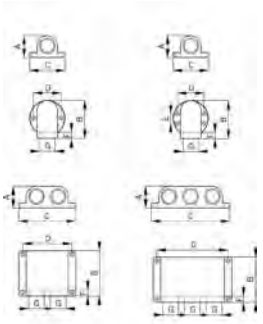
Entry thread PG

With 1 entry thread

G	B/C mm	D mm	F mm	A mm	H mm	I mm	K mm	L mm	M mm	Part. no.	
Pg 9	45 x 48	37	4.3	8	15.5	30	28	10.5	24	**5509**	10
Pg 13	53 x 56	44	5.5	8	19.0	35	34	10.5	24	**5513**	10
Pg 16	53 x 56	44	5.5	8	19.0	35	34	10.5	24	**5516**	10
Pg 21	63 x 65	54	5.5	8	23.0	42	43	11.0	35	**5521**	10
Pg 29	71 x 75	60	5.5	10	27.0	52	53	11.0	38	**5529**	10
Pg 36	89 x 94	72	6.5	11	34.0	69	65	18.0	50	**5536**	10

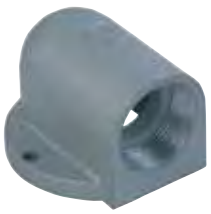
Entry thread PG

Flanged elbow 90° zinc diecasting



Material: Zinc diecasting
Color: Hammergrey enamel
Seal: NBR
Temperature range: -20°C / +100°C
Protection class: IP 65
Properties: For splash water-proof mounting on casing walls with entry thread for cable glands or conduit glands

With 1-3 entry threads

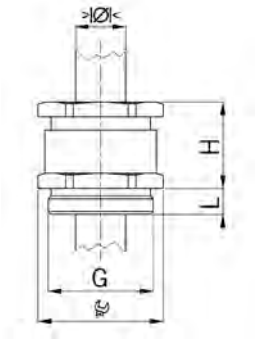


G	x	A mm	B mm	C mm	D mm	E mm	F mm	∅ mm	Part. no.	
Pg 16	1 x	31	42	42	36.0	-	11	2x4.5	**5516.10**	10
Pg 21	1 x	40	60	60	52.5	-	12	2x5.2	**5521.10**	10
Pg 29	1 x	51.5	76	66	54.0	36	12	4x5.5	**5529.10**	10
Pg 36	1 x	62	90	85	73.0	30	12	4x5.5	**5536.10**	10
Pg 16	2 x	34	70	91	79.0	58	10	4x5.5	**5516.12**	10
Pg 16	3 x	34	70	124	111.0	56	10	4x5.5	**5516.13**	10

Cable Glands Nickel-Plated Brass

According to DIN 46320-C4-MS

Short entry thread metric



Material:	Nickel-plated brass
Seal:	NBR
Temperature range:	-20°C / +80°C
Protection class:	IP 54

One-piece sealing ring / not overall length insulated

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Part. no.	
M12x1.5	5.0	7.0	14/13	15	5	**B 112**	100
M16x1.5	6.0	8.0	18/15	15	5	**B 117**	100
M20x1.5	8.0	10.0	22/18	19	6	**B 120.10**	50
M20x1.5	10.0	12.0	22/20	19	6	**B 120.12**	50
M20x1.5	12.0	14.0	22/20	19	6	**B 120.14**	50
M25x1.5	15.0	17.0	30/28	23	7	**B 125**	50
M32x1.5	24.0	26.0	40/37	26	8	**B 132**	25
M40x1.5	33.0	35.0	50/47	30	8	**B 140**	20
M50x1.5	41.0	43.0	57/54	34	9	**B 150**	10
M63x1.5	45.0	47.0	66/60	35	10	**B 163**	10

Long entry thread metric

One-piece sealing ring / not overall length insulated

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Part. no.	
M12x1.5	5.0	7.0	14/13	15	10	**B 212**	100
M16x1.5	6.0	8.0	18/15	15	10	**B 217**	100
M20x1.5	8.0	10.0	22/18	19	10	**B 220.10**	50
M20x1.5	10.0	12.0	22/20	19	10	**B 220.12**	50
M20x1.5	12.0	14.0	22/20	19	10	**B 220.14**	50
M25x1.5	15.0	17.0	30/28	23	12	**B 225**	50
M32x1.5	24.0	26.0	40/37	26	12	**B 232**	25
M40x1.5	33.0	35.0	50/47	30	14	**B 240**	20
M50x1.5	41.0	43.0	57/54	34	14	**B 250**	10
M63x1.5	45.0	47.0	66/60	35	14	**B 263**	10

Cable Glands Nickel-Plated Brass

with Antikink Nozzle & Clamps

Short entry thread metric

Material:	Nickel-plated brass
Seal:	NBR
antikink nozzle:	NBR
Temperature range:	-20°C / +80°C
Protection class:	IP 65 if the entry thread is sealed

One-piece sealing ring / not overall length insulated

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Part. no.	
M12x1.5	3.5	5.0	14/15	28	5	**1852.12.05**	25
M16x1.5	5.5	7.0	17/18	28	6	**1852.16.07**	25
M20x1.5	5.5	7.0	20/22	32	6	**1852.20.07**	25
M20x1.5	7.5	9.0	20/22	32	6	**1852.20.09**	25
M20x1.5	9.0	11.0	22/22	33	6	**1852.20.11**	25
M20x1.5	11.0	13.0	22/22	33	6	**1852.20.13**	25
M20x1.5	13.0	15.0	24/24	35	6	**1852.20.15**	25
M25x1.5	13.5	15.0	30/30	42	7	**1852.25.15**	25
M25x1.5	15.0	17.0	30/30	42	7	**1852.25.17**	25
M25x1.5	17.0	19.0	30/30	42	7	**1852.25.19**	25
M25x1.5	18.0	20.0	30/30	42	7	**1852.25.20**	25
M32x1.5	21.0	23.0	40/40	42	8	**1852.32.23**	1
M32x1.5	23.0	25.0	40/40	42	8	**1852.32.25**	1
M40x1.5	23.0	26.0	50/50	51	9	**1852.40.26**	1
M40x1.5	27.0	30.0	50/50	51	9	**1852.40.30**	1
M40x1.5	30.0	33.0	50/50	51	9	**1852.40.33**	1
M40x1.5	32.0	35.0	50/50	51	9	**1852.40.35**	1

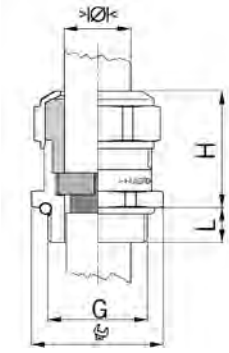
Short entry thread PG

One-piece sealing ring / not overall length insulated

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Part. no.	
Pg 7	3.5	5.0	14/16	28	5	**1852.07.05**	50
Pg 9	5.5	7.0	17/19	28	6	**1852.09.07**	50
Pg 11	5.5	7.0	20/22	32	6	**1852.11.07**	50
Pg 11	7.5	9.0	20/22	32	6	**1852.11.09**	50
Pg 13	7.5	9.0	22/24	32	6	**1852.13.09**	25
Pg 13	9.0	11.0	22/24	33	6	**1852.13.11**	25
Pg 13	11.0	13.0	22/24	33	6	**1852.13.13**	25
Pg 16	11.5	13.0	24/27	35	6	**1852.16.13**	25
Pg 16	13.0	15.0	24/27	35	6	**1852.16.15**	25
Pg 21	13.5	15.0	30/34	42	7	**1852.21.15**	25
Pg 21	15.0	17.0	30/34	42	7	**1852.21.17**	25
Pg 21	17.0	19.0	30/34	42	7	**1852.21.19**	25
Pg 21	18.0	20.0	30/34	42	7	**1852.21.20**	25
Pg 29	18.0	20.0	40/42	42	8	**1852.29.20**	1
Pg 29	21.0	23.0	40/42	42	8	**1852.29.23**	1
Pg 29	23.0	25.0	40/42	42	8	**1852.29.25**	1
Pg 36	23.0	26.0	50/52	51	9	**1852.36.26**	1
Pg 36	27.0	30.0	50/52	51	9	**1852.36.30**	1
Pg 36	30.0	33.0	50/52	51	9	**1852.36.33**	1
Pg 36	32.0	35.0	50/52	51	9	**1852.36.35**	1
Pg 42	32.0	35.0	57/62	59	10	**1852.42.35**	1
Pg 42	35.0	38.0	57/62	59	10	**1852.42.38**	1
Pg 42	36.0	40.0	57/62	59	10	**1852.42.40**	1
Pg 48	36.0	40.0	64/68	62	10	**1852.48.48.40**	1
Pg 48	40.0	44.0	64/68	62	10	**1852.48.48.44**	1

Cable Glands EMC EasyCONNECT Nickel-Plated Brass with Contact Spring

short entry thread metric



Material:	Nickel-plated brass
Contact spring:	Spring steel 1.4310
Seal:	TPE
O-ring:	NBR
Strain relief:	According to IEC 62444 version A
Temperature range:	-60°C / +100°C
Protection class:	IP 68 (up to 10 bar)
Protection type addition:	IP 69K
Properties:	Full control of the installation process thanks to fast and safe assembly for partially stripped shielding cables equally as well as the contact of completely cable shields

Progress MS EMC easyCONNECT

Two-piece sealing insert / not overall length insulated

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	i info	Part. no.	
M12x1.5	3.5	5.0	15	22	5	1	**1083.12.050**	50
M12x1.5	5.0	6.5	15	22	5	1	**1083.12.065**	50
M16x1.5	6.0	10.5	18	25	5	-	**1083.17**	50
M20x1.5	8.0	15.0	24	27	6	-	**1083.20**	50
M25x1.5	12.5	20.5	30	33	7	-	**1083.25**	25
M32x1.5	17.0	25.5	36	33	8	-	**1083.32**	25

1 = One-piece sealing insert

Approvals in preperation

long entry thread metric

Progress MS EMC easyCONNECT

Two-piece sealing insert / not overall length insulated

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	i info	Part. no.	
M12x1.5	3.5	5.0	15	22	10	1	**1183.12.050**	50
M12x1.5	5.0	6.5	15	22	10	1	**1183.12.065**	50
M16x1.5	6.0	10.5	18	25	10	-	**1183.17**	50
M20x1.5	8.0	15.0	24	27	10	-	**1183.20**	50
M25x1.5	12.5	20.5	30	33	11	-	**1183.25**	25
M32x1.5	17.0	25.5	36	33	13	-	**1183.32**	25

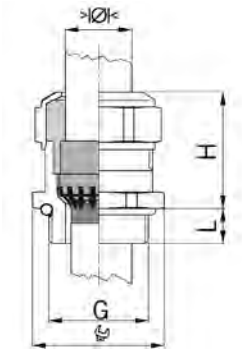
1 = One-piece sealing insert

Approvals in preperation

Cable Glands EMC Rapid Nickel-Plated Brass

with Contact Disc

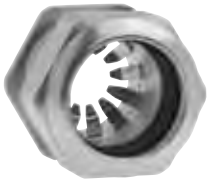
short entry thread metric



Material:	Nickel-plated brass
Contact sleeve:	Nickel-plated brass
Contact disc:	Stainless steel A2
Seal:	TPE
O-ring:	NBR
Strain relief:	According to EN 50262 version A
Temperature range:	-40°C / +100°C
Protection class:	IP 68 (up to 10 bar)
Protection type addition:	IP 69K
Properties:	For a quick installation of partially dismantled cables as well as thoroughly shielded cables

Progress MS EMC Rapid

One-piece sealing insert / not overall length insulated

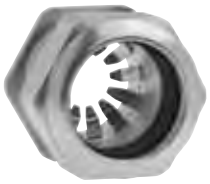


G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Part. no.	
M12x1.5	4.5	6.0	15	20	5	**1081.12.060**	50
M12x1.5	6.0	7.5	15	20	5	**1081.12.075**	50
M16x1.5	6.0	8.0	18	23	5	**1081.17.080**	50
M16x1.5	8.0	10.0	18	25	5	**1081.17.100**	50
M20x1.5	8.0	11.0	24	25	6	**1081.20.110**	50
M20x1.5	11.0	14.0	24	27	6	**1081.20.140**	50
M25x1.5	13.0	16.0	30	30	7	**1081.25.160**	25
M25x1.5	16.0	19.0	30	33	7	**1081.25.190**	25
M32x1.5	18.0	21.0	36	32	8	**1081.32.210**	25
M32x1.5	21.0	25.0	36	32	8	**1081.32.250**	25

long entry thread metric

Progress MS EMC Rapid

One-piece sealing insert / not overall length insulated

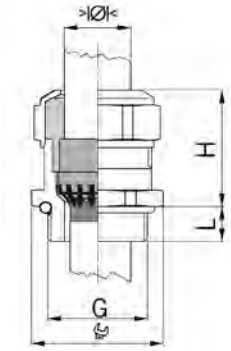


G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Part. no.	
M12x1.5	4.5	6.0	15	20	10	**1181.12.060**	50
M12x1.5	6.0	7.5	15	20	10	**1181.12.075**	50
M16x1.5	6.0	8.0	18	23	10	**1181.17.080**	50
M16x1.5	8.0	10.0	18	25	10	**1181.17.100**	50
M20x1.5	8.0	11.0	24	25	10	**1181.20.110**	50
M20x1.5	11.0	14.0	24	27	10	**1181.20.140**	50
M25x1.5	13.0	16.0	30	30	11	**1181.25.160**	25
M25x1.5	16.0	19.0	30	33	11	**1181.25.190**	25
M32x1.5	18.0	21.0	36	32	13	**1181.32.210**	25
M32x1.5	21.0	25.0	36	32	13	**1181.32.250**	25

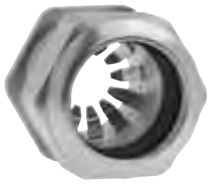
Cable Glands EMC Rapid Nickel-Plated Brass

with Contact Disc

Short entry thread PG



Material:	Nickel-plated brass
Contact sleeve:	Nickel-plated brass
Contact disc:	Stainless steel A2
Seal:	TPE
O-ring:	NBR
Temperature range:	-40°C / +100°C
Protection class:	IP 68 (up to 10 bar)
Protection type addition:	IP 69K
Properties:	For a quick installation of partially dismantled cables as well as thoroughly shielded cables

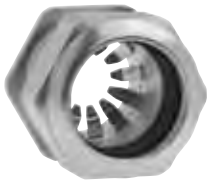


Progress MS EMC Rapid

One-piece sealing insert / not overall length insulated

G	>|Ø|< min mm	>|Ø|< max mm	mm	H mm	L mm	Part. no.	
Pg 7	4.5	6.0	15	20	6	**1081.07.060**	50
Pg 7	6.0	7.5	15	20	6	**1081.07.075**	50
Pg 9	6.0	8.0	18	23	6	**1081.09.080**	50
Pg 9	8.0	10.0	18	25	6	**1081.09.100**	50
Pg 11	5.5	8.5	21	25	6	**1081.11.085**	50
Pg 11	8.5	12.0	21	25	6	**1081.11.120**	50
Pg 13	8.0	11.0	24	25	6	**1081.13.110**	50
Pg 13	11.0	14.0	24	27	6	**1081.13.140**	50
Pg 16	8.0	11.0	24	24	6	**1081.16.110**	50
Pg 16	11.0	14.0	24	27	6	**1081.16.140**	50
Pg 21	13.0	16.0	30	30	7	**1081.21.160**	25
Pg 21	16.0	19.0	30	33	7	**1081.21.190**	25
Pg 29	19.0	23.0	38	33	8	**1081.29.230**	25
Pg 29	23.0	25.5	38	32	8	**1081.29.255**	25

Long entry thread PG



Progress MS EMC Rapid

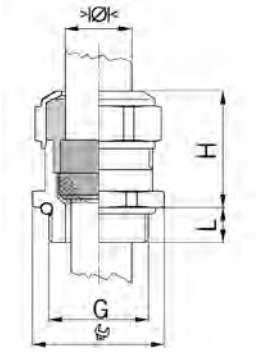
One-piece sealing insert / not overall length insulated

G	>|Ø|< min mm	>|Ø|< max mm	mm	H mm	L mm	Part. no.	
Pg 7	4.5	6.0	15	20	10	**1181.07.060**	50
Pg 7	6.0	7.5	15	20	10	**1181.07.075**	50
Pg 9	6.0	8.0	18	23	10	**1181.09.080**	50
Pg 9	8.0	10.0	18	25	10	**1181.09.100**	50
Pg 11	5.5	8.5	21	25	10	**1181.11.085**	50
Pg 11	8.5	12.0	21	25	10	**1181.11.120**	50
Pg 13	8.0	11.0	24	25	10	**1181.13.110**	50
Pg 13	11.0	14.0	24	27	10	**1181.13.140**	50
Pg 16	8.0	11.0	24	24	10	**1181.16.110**	50
Pg 16	11.0	14.0	24	27	10	**1181.16.140**	50
Pg 21	13.0	16.0	30	30	12	**1181.21.160**	25
Pg 21	16.0	19.0	30	33	12	**1181.21.190**	25
Pg 29	19.0	23.0	38	33	12	**1181.29.230**	25
Pg 29	23.0	25.5	38	32	12	**1181.29.255**	25

Cable Glands EMC Nickel-Plated Brass

with Contact Sleeve

short entry thread metric



Material:	Nickel-plated brass
Contact sleeve:	Nickel-plated brass
Seal:	TPE
O-ring:	NBR
Strain relief:	According to EN 50262 version A
Temperature range:	-40°C / +100°C
Protection class:	IP 68 (up to 10 bar)
Protection type addition:	IP 69K
Properties:	Excellent shield contact through the contact sleeve with the braided shield terminating in the screwed cable gland

Progress MS EMC

One-piece sealing insert / not overall length insulated

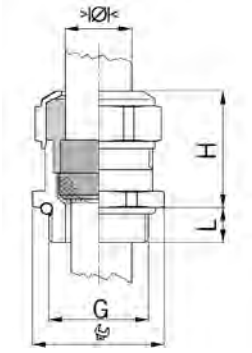
G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	i info	Part. no.	
M8x1.25	2.5	3.5	11	15	5	1	**1080.08.035**	50
M8x1.25	3.0	4.0	11	15	5	1	**1080.08.040**	50
M10x1.5	3.0	4.0	13	16	5	1	**1080.10.040**	50
M10x1.5	4.0	6.0	13	16	5	1	**1080.10.060**	50
M12x1.5	4.5	6.0	15	20	5	-	**1080.12.060**	50
M12x1.5	6.0	7.5	15	20	5	-	**1080.12.075**	50
M16x1.5	6.0	8.0	18	23	5	-	**1080.17.080**	50
M16x1.5	8.0	10.0	18	25	5	-	**1080.17.100**	50
M20x1.5	8.0	11.0	24	25	6	-	**1080.20.110**	50
M20x1.5	11.0	14.0	24	27	6	-	**1080.20.140**	50
M25x1.5	13.0	16.0	30	30	7	-	**1080.25.160**	25
M25x1.5	16.0	19.0	30	33	7	-	**1080.25.190**	25
M32x1.5	18.0	21.0	36	32	8	-	**1080.32.210**	25
M32x1.5	21.0	25.0	36	32	8	-	**1080.32.250**	25
M40x1.5	24.0	28.5	46	34	8	-	**1080.40.285**	10
M40x1.5	28.5	32.0	46	34	8	-	**1080.40.320**	10
M50x1.5	33.0	37.0	55	36	9	-	**1080.50.370**	10
M50x1.5	37.0	41.0	55	36	9	-	**1080.50.410**	10
M63x1.5	40.0	46.0	70	39	10	-	**1080.63.460**	5
M63x1.5	46.0	50.0	70	39	10	-	**1080.63.500**	5
M75x1.5	50.0	56.0	80	40	11	-	**1080.75.560**	1
M80x2.0	56.0	65.0	95	45	18	-	**1080.80.650**	1
M85x2.0	63.0	70.0	95	45	18	-	**1080.85.700**	1
M95x2.0	68.0	75.0	110	52	20	-	**1080.95.750**	1

1 = Metric coarse-pitch thread

Cable Glands EMC Nickel-Plated Brass

with Contact Sleeve

LONG ENTRY THREAD METRIC



Material:	Nickel-plated brass
Contact sleeve:	Nickel-plated brass
Seal:	TPE
O-ring :	NBR
Strain relief:	According to EN 50262 version A
Temperature range:	-40°C / +100°C
Protection class:	IP 68 (up to 10 bar)
Protection type addition:	IP 69K
Properties:	Excellent shield contact through the contact sleeve with the braided shield terminating in the screwed cable gland

Progress MS EMC

One-piece sealing insert / not overall length insulated

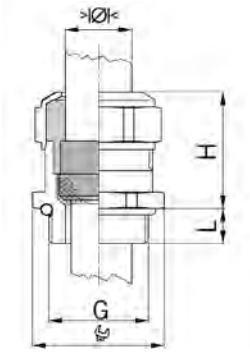
G	>|Ø|< min mm	>|Ø|< max mm	mm	H mm	L mm	i info	Part. no.	
M8x1.25	2.5	3.5	11	15	10	1	**1180.08.035**	50
M8x1.25	3.0	4.0	11	15	10	1	**1180.08.040**	50
M10x1.5	3.0	4.0	13	16	10	1	**1180.10.040**	50
M10x1.5	4.0	6.0	13	16	10	1	**1180.10.060**	50
M12x1.5	4.5	6.0	15	20	10	-	**1180.12.060**	50
M12x1.5	6.0	7.5	15	20	10	-	**1180.12.075**	50
M16x1.5	6.0	8.0	18	23	10	-	**1180.17.080**	50
M16x1.5	8.0	10.0	18	25	10	-	**1180.17.100**	50
M20x1.5	8.0	11.0	24	25	10	-	**1180.20.110**	50
M20x1.5	11.0	14.0	24	27	10	-	**1180.20.140**	50
M25x1.5	13.0	16.0	30	30	11	-	**1180.25.160**	25
M25x1.5	16.0	19.0	30	33	11	-	**1180.25.190**	25
M32x1.5	18.0	21.0	36	32	13	-	**1180.32.210**	25
M32x1.5	21.0	25.0	36	32	13	-	**1180.32.250**	25
M40x1.5	24.0	28.5	46	34	13	-	**1180.40.285**	10
M40x1.5	28.5	32.0	46	34	13	-	**1180.40.320**	10
M50x1.5	33.0	37.0	55	36	14	-	**1180.50.370**	10
M50x1.5	37.0	41.0	55	36	14	-	**1180.50.410**	10
M63x1.5	40.0	46.0	70	39	14	-	**1180.63.460**	5
M63x1.5	46.0	50.0	70	39	14	-	**1180.63.500**	5

1 = Metric coarse-pitch thread

Cable Glands EMC Nickel-Plated Brass

with Contact Sleeve

Short Entry Thread PG



Material:	Nickel-plated brass
Contact sleeve:	Nickel-plated brass
Seal:	TPE
O-ring:	NBR
Temperature range:	-40°C / +100°C
Protection class:	IP 68 (up to 10 bar)
Protection type addition:	IP 69K
Properties:	Excellent shield contact through the contact sleeve with the braided shield terminating in the screwed cable gland

Progress MS EMC

One-piece sealing insert / not overall length insulated

G	>|Ø|< min mm	>|Ø|< max mm	mm	H mm	L mm	Part. no.	
Pg 7	4.5	6.0	15	20	6	**1080.07.060**	50
Pg 7	6.0	7.5	15	20	6	**1080.07.075**	50
Pg 9	6.0	8.0	18	23	6	**1080.09.080**	50
Pg 9	8.0	10.0	18	25	6	**1080.09.100**	50
Pg 11	5.5	8.5	21	23	6	**1080.11.085**	50
Pg 11	8.5	12.0	21	23	6	**1080.11.120**	50
Pg 13	8.0	11.0	24	25	6	**1080.13.110**	50
Pg 13	11.0	14.0	24	27	6	**1080.13.140**	50
Pg 16	8.0	11.0	24	24	6	**1080.16.110**	50
Pg 16	11.0	14.0	24	27	6	**1080.16.140**	50
Pg 21	13.0	16.0	30	30	7.5	**1080.21.160**	25
Pg 21	16.0	19.0	30	33	7.5	**1080.21.190**	25
Pg 29	19.0	23.0	38	33	8	**1080.29.230**	25
Pg 29	23.0	25.5	38	32	8	**1080.29.255**	25
Pg 36	25.0	30.5	50	36	8	**1080.36.305**	10
Pg 36	30.5	35.0	50	34	8	**1080.36.350**	10
Pg 42	33.0	37.0	55	37	10	**1080.42.370**	10
Pg 42	37.0	41.0	55	36	10	**1080.42.410**	10
Pg 48	39.0	43.0	65	42	11	**1080.48.430**	10
Pg 48	43.0	46.5	65	40	11	**1080.48.465**	10

Long Entry Thread PG

Progress MS EMC

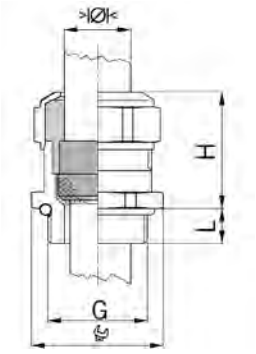
One-piece sealing insert / not overall length insulated

G	>|Ø|< min mm	>|Ø|< max mm	mm	H mm	L mm	Part. no.	
Pg 7	4.5	6.0	15	20	10	**1180.07.060**	50
Pg 7	6.0	7.5	15	20	10	**1180.07.075**	50
Pg 9	6.0	8.0	18	23	10	**1180.09.080**	50
Pg 9	8.0	10.0	18	25	10	**1180.09.100**	50
Pg 11	5.5	8.5	21	23	10	**1180.11.085**	50
Pg 11	8.5	12.0	21	23	10	**1180.11.120**	50
Pg 13	8.0	11.0	24	25	10	**1180.13.110**	50
Pg 13	11.0	14.0	24	27	10	**1180.13.140**	50
Pg 16	8.0	11.0	24	24	10	**1180.16.110**	50
Pg 16	11.0	14.0	24	27	10	**1180.16.140**	50
Pg 21	13.0	16.0	30	30	12	**1180.21.160**	25
Pg 21	16.0	19.0	30	33	12	**1180.21.190**	25
Pg 29	19.0	23.0	38	33	12	**1180.29.230**	25
Pg 29	23.0	25.5	38	32	12	**1180.29.255**	25
Pg 36	25.0	30.5	50	36	15	**1180.36.305**	10
Pg 36	30.5	35.0	50	34	15	**1180.36.350**	10
Pg 42	33.0	37.0	55	37	15	**1180.42.370**	10
Pg 42	37.0	41.0	55	36	15	**1180.42.410**	10
Pg 48	39.0	43.0	65	42	15	**1180.48.430**	10
Pg 48	43.0	46.5	65	40	15	**1180.48.465**	10

Cable Glands EMC Nickel-Plated Brass

with Contact Sleeve for High Temperature Applications

Short entry thread metric



Material:	Nickel-plated brass
Contact sleeve:	Nickel-plated brass
Seal:	FPM
O-ring:	FPM
Strain relief:	According to EN 50262 version A
Temperature range:	-40°C / +200°C
Protection class:	IP 68 (up to 10 bar)
Protection type addition:	IP 69K
Properties:	Excellent shield contact through the contact sleeve with the braided shield terminating in the screwed cable gland

One-piece sealing insert / not overall length insulated

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	i info	Part. no.	
M10x1.5	3.0	4.0	13	16	5	1	**1080.10.91.040**	50
M10x1.5	4.0	6.0	13	16	5	1	**1080.10.91.060**	50
M12x1.5	4.5	6.0	15	20	5	-	**1080.12.91.060**	50
M12x1.5	6.0	7.5	15	20	5	-	**1080.12.91.075**	50
M16x1.5	6.0	8.0	18	23	5	-	**1080.17.91.080**	50
M16x1.5	8.0	10.0	18	25	5	-	**1080.17.91.100**	50
M20x1.5	8.0	11.0	24	25	6	-	**1080.20.91.110**	50
M20x1.5	11.0	14.0	24	27	6	-	**1080.20.91.140**	50
M25x1.5	13.0	16.0	30	30	7	-	**1080.25.91.160**	25
M25x1.5	16.0	19.0	30	33	7	-	**1080.25.91.190**	25
M32x1.5	18.0	21.0	36	32	8	-	**1080.32.91.210**	25
M32x1.5	21.0	25.0	36	32	8	-	**1080.32.91.250**	25

1 = Metric coarse-pitch thread

Long entry thread metric

One-piece sealing insert / not overall length insulated

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	i info	Part. no.	
M10x1.5	3.0	4.0	13	16	10	1	**1180.10.91.040**	50
M10x1.5	4.0	6.0	13	16	10	1	**1180.10.91.060**	50
M12x1.5	4.5	6.0	15	20	10	-	**1180.12.91.060**	50
M12x1.5	6.0	7.5	15	20	10	-	**1180.12.91.075**	50
M16x1.5	6.0	8.0	18	23	10	-	**1180.17.91.080**	50
M16x1.5	8.0	10.0	18	25	10	-	**1180.17.91.100**	50
M20x1.5	8.0	11.0	24	25	10	-	**1180.20.91.110**	50
M20x1.5	11.0	14.0	24	27	10	-	**1180.20.91.140**	50
M25x1.5	13.0	16.0	30	30	11	-	**1180.25.91.160**	25
M25x1.5	16.0	19.0	30	33	11	-	**1180.25.91.190**	25
M32x1.5	18.0	21.0	36	32	13	-	**1180.32.91.210**	25
M32x1.5	21.0	25.0	36	32	13	-	**1180.32.91.250**	25

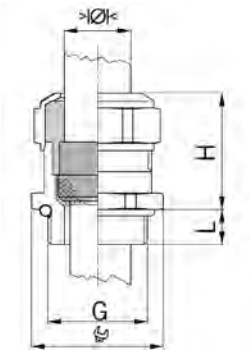
1 = Metric coarse-pitch thread

Cable Glands EMC Nickel-Plated Brass

with Contact Sleeve for High Temperature Applications

Short entry thread PG

Material:	Nickel-plated brass
Contact sleeve:	Nickel-plated brass
Seal:	FPM
O-ring:	FPM
Temperature range:	-40°C / +200°C
Protection class:	IP 68 (up to 10 bar)
Protection type addition:	IP 69K
Properties:	Excellent shield contact through the contact sleeve with the braided shield terminating in the screwed cable gland



One-piece sealing insert / not overall length insulated

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Part. no.	
Pg 9	6.0	8.0	18	23	6	**1080.09.91.080**	50
Pg 9	8.0	10.0	18	25	6	**1080.09.91.100**	50
Pg 11	5.5	8.5	21	23	6	**1080.11.91.085**	50
Pg 11	8.5	12.0	21	23	6	**1080.11.91.120**	50
Pg 13	8.0	11.0	24	25	6	**1080.13.91.110**	50
Pg 13	11.0	14.0	24	27	6	**1080.13.91.140**	50
Pg 16	8.0	11.0	24	24	6	**1080.16.91.110**	50
Pg 16	11.0	14.0	24	27	6	**1080.16.91.140**	50
Pg 21	13.0	16.0	30	30	7.5	**1080.21.91.160**	25
Pg 21	16.0	19.0	30	33	7.5	**1080.21.91.190**	25
Pg 29	19.0	23.0	38	33	8	**1080.29.91.230**	25
Pg 29	23.0	25.5	38	32	8	**1080.29.91.255**	25

Long entry thread PG

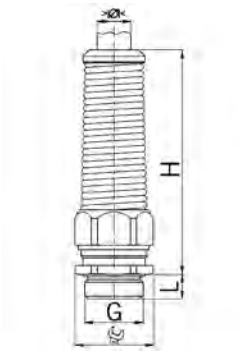
One-piece sealing insert / not overall length insulated

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Part. no.	
Pg 9	6.0	8.0	18	23	10	**1180.09.91.080**	50
Pg 9	8.0	10.0	18	25	10	**1180.09.91.100**	50
Pg 11	5.5	8.5	21	23	10	**1180.11.91.085**	50
Pg 11	8.5	12.0	21	23	10	**1180.11.91.120**	50
Pg 13	8.0	11.0	24	25	10	**1180.13.91.110**	50
Pg 13	8.5	12.0	24	27	10	**1180.13.91.140**	50
Pg 16	8.0	11.0	24	24	10	**1180.16.91.110**	50
Pg 16	11.0	14.0	24	27	10	**1180.16.91.140**	50
Pg 21	13.0	16.0	30	30	12	**1180.21.91.160**	25
Pg 21	16.0	19.0	30	33	12	**1180.21.91.190**	25
Pg 29	19.0	23.0	38	33	12	**1180.29.91.230**	25
Pg 29	23.0	25.5	38	32	12	**1180.29.91.255**	25

Cable Glands EMC Nickel-Plated Brass

with Antikink Spring

short entry thread metric



Material:	Nickel-plated brass
Antikink spring:	Stainless steel A2
Seal:	TPE
O-ring:	NBR
Strain relief:	According to EN 50262 version A
Temperature range:	-40°C / +100°C
Protection class:	IP 68
Protection type addition:	IP 69K
Properties:	Excellent shield contact through the contact sleeve with the braided shield terminating in the screwed cable gland

Progress MS EMC FKN

One-piece sealing insert / not overall length insulated

G	>|Ø|< min mm	>|Ø|< max mm	mm	H mm	L mm	i info	Part. no.	
M8x1.25	2.5	3.5	11	50	5	1	**1080.08.52.035**	10
M8x1.25	3.0	4.0	11	50	5	1	**1080.08.52.040**	10
M10x1.5	3.0	4.0	13	54	5	1	**1080.10.52.040**	10
M10x1.5	4.0	6.0	13	54	5	1	**1080.10.52.060**	10
M12x1.5	4.5	6.0	15	60	5	-	**1080.12.52.060**	10
M12x1.5	6.0	7.5	15	60	5	-	**1080.12.52.075**	10
M16x1.5	6.0	8.0	18	69	5	-	**1080.17.52.080**	10
M16x1.5	8.0	10.0	18	69	5	-	**1080.17.52.100**	10
M20x1.5	8.0	11.0	24	88	6	-	**1080.20.52.110**	10
M20x1.5	11.0	14.0	24	88	6	-	**1080.20.52.140**	10
M25x1.5	13.0	16.0	30	104	7	-	**1080.25.52.160**	10
M25x1.5	16.0	19.0	30	104	7	-	**1080.25.52.190**	10
M32x1.5	18.0	21.0	36	112	8	-	**1080.32.52.210**	5
M32x1.5	21.0	24.5	36	112	8	-	**1080.32.52.245**	5

1 = Metric coarse-pitch thread

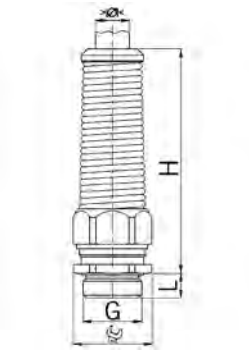
Long entry thread available on request

Cable Glands EMC Nickel-Plated Brass

with Antikink Spring

short entry thread PG

Material:	Nickel-plated brass
Antikink spring:	Stainless steel A2
Seal:	TPE
O-ring:	NBR
Temperature range:	-40°C / +100°C
Protection class:	IP 68
Properties:	Excellent shield contact through the contact sleeve with the braided shield terminating in the screwed cable gland



Progress MS EMC FKN

One-piece sealing insert / not overall length insulated

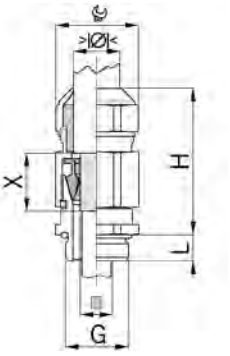
G	>|Ø|< min mm	>|Ø|< max mm	mm	H mm	L mm	Part. no.	
Pg 7	4.5	6.0	15	60	6	**1080.07.52.060**	10
Pg 7	6.0	7.5	15	60	6	**1080.07.52.075**	10
Pg 9	6.0	8.0	18	69	6	**1080.09.52.080**	10
Pg 9	8.0	10.0	18	69	6	**1080.09.52.100**	10
Pg 11	6.0	8.0	18/21	69	6	**1080.11.52.080**	10
Pg 11	8.0	10.0	18/21	69	6	**1080.11.52.100**	10
Pg 13	8.0	11.0	24	88	6	**1080.13.52.110**	10
Pg 13	11.0	14.0	24	88	6	**1080.13.52.140**	10
Pg 16	8.0	11.0	24	88	6	**1080.16.52.110**	10
Pg 16	11.0	14.0	24	88	6	**1080.16.52.140**	10
Pg 21	13.0	16.0	30	104	7	**1080.21.52.160**	5
Pg 21	16.0	19.0	30	104	7	**1080.21.52.190**	5

Long entry thread available on request

Cable Glands EMC Series 85 Nickel-Plated Brass

with Collet Chuck

ENTRY THREAD METRIC



Material:	Nickel-plated brass
Seal:	TPE
O-ring:	NBR
Strain relief:	According to EN 50262 version A
Temperature range:	-40°C / +100°C
Protection class:	IP 68 (up to 10 bar)
Protection type addition:	IP 69K
Properties:	For high leakage currents, concentric shield contact with minimal transfer resistances and transfer impedances

Progress MS EMC Series 85

Two-piece sealing insert / not overall length insulated

G	>Ø< min mm	>Ø< max mm	>■< mm	mm	H mm	L mm	X mm	Part. no.	
M16x1.5	4.5	6.0	3.0-4.5	18	40	6	14	**1000.17.85.045**	25
M16x1.5	6.0	10.5	4.5-8.0	18	42	8	16	**1000.17.85.080**	25
M16x1.5	8.0	15.0	7.5-10.0	24	47	8	20	**1000.17.85.100**	25
M20x1.5	8.0	15.0	7.5-12.0	24	47	8	20	**1000.20.85.120**	25
M20x1.5	12.5	20.5	10.0-14.0	30	59	8	21	**1000.20.85.140**	20
M25x1.5	12.5	20.5	10.0-16.0	30	59	8	21	**1000.25.85.160**	20
M25x1.5	17.0	25.5	14.0-19.0	36	66	8	24	**1000.25.85.190**	25
M32x1.5	17.0	25.5	14.0-22.0	36	66	10	24	**1000.32.85.220**	25
M32x1.5	24.0	33.0	21.0-25.0	46	68	10	24	**1000.32.85.250**	5
M40x1.5	24.0	33.0	21.0-30.0	46	68	12	24	**1000.40.85.300**	5
M50x1.5	33.0	42.0	29.0-38.0	55	77	13	25	**1000.50.85.380**	5
M63x1.5	33.0	42.0	29.0-38.0	70/55	77	15	25	**1000.63.85.380**	5
M63x1.5	40.0	52.0	35.0-44.0	70	78	15	26	**1000.63.85.440**	1

Important!

To provide the best possible protection for the cable shield and the cable, it is necessary to install a copper EMC tape.

The copper tape must be fixed according to the illustration!

(example: Tape Scotch 3M Typ 1181)

Cable Glands EMC Series 85 Nickel-Plated Brass

with Collet Chuck

ENTRY THREAD PG

Material:	Nickel-plated brass
Seal:	TPE
O-ring:	NBR
Temperature range:	-40°C / +100°C
Protection class:	IP 68 (up to 10 bar)
Protection type addition:	IP 69K
Properties:	For high leakage currents, concentric shield contact with minimal transfer resistances and transfer impedances

Two-piece sealing insert / not overall length insulated

G	>Ø< min mm	>Ø< max mm	>■< mm	mm	H mm	L mm	X mm	Part. no.	
Pg 11	6.0	10.5	4.5-8.0	21/18	42	8	16	**1000.11.85.080**	25
Pg 11	8.0	15.0	7.5-12.0	24	47	8	20	**1000.11.85.120**	25
Pg 16	8.0	15.0	7.5-12.0	24	47	8	20	**1000.16.85.120**	25
Pg 16	12.5	20.5	10.0-15.0	30	59	8	21	**1000.16.85.150**	25
Pg 21	12.5	20.5	10.0-16.0	30	59	8	21	**1000.21.85.160**	20
Pg 21	17.0	25.5	14.0-19.0	36	66	8	24	**1000.21.85.190**	25
Pg 29	17.0	25.5	14.0-22.0	38/36	66	10	24	**1000.29.85.220**	20
Pg 29	24.0	33.0	21.0-25.0	46	68	10	24	**1000.29.85.250**	5

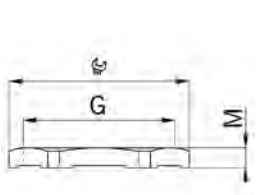
Important!

To provide the best possible protection for the cable shield and the cable, it is necessary to install a copper EMC tape.

Further dimensions upon request

The copper tape must be fixed according to the illustration! (example: Tape Scotch 3M Typ 1181)

ENTRY THREAD METRIC



EMC lock nuts nickel-plated brass with cutter teeth

Material: Nickel-plated brass

Execution: EMC lock nut brass with cutting teeth for optimised shield contact

Temperature range: -60°C / +200°C

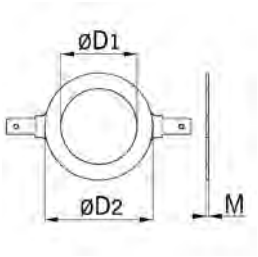
G	mm	M mm	i info	Part. no.	
M8x1.25	11	3.3	1	**8008.85**	25
M10x1.5	13	3.3	1	**8010.85**	25
M12x1.5	15	3.5	-	**8012.85**	25
M16x1.5	19	3.5	-	**8017.85**	25
M20x1.5	24	4.0	-	**8020.85**	25
M25x1.5	30	4.0	-	**8025.85**	10
M32x1.5	36	5.0	-	**8032.85**	10
M40x1.5	46	5.3	-	**8040.85**	10
M50x1.5	55	6.3	-	**8050.85**	10
M63x1.5	70	7.0	-	**8063.85**	10

1 = Metric coarse-pitch thread

ENTRY THREAD PG

G	mm	M mm	Part. no.	
Pg 7	15	3.3	**8007.85**	25
Pg 9	18	3.3	**8009.85**	25
Pg 11	21	3.5	**8011.85**	25
Pg 13	24	3.5	**8013.85**	25
Pg 16	26	3.5	**8016.85**	25
Pg 21	32	4.0	**8021.85**	10
Pg 29	41	4.6	**8029.85**	10
Pg 36	50	5.8	**8036.85**	10
Pg 42	60	5.8	**8042.85**	10
Pg 48	64	6.5	**8048.85**	10

Grounding straps suitable for cable glands



Material: Brass raw
Temperature range: -60°C / +200°C
Application: Solderable or pluggable 6,3 x 1,0 mm

Grounding straps suitable for cable glands / Entry thread metric

G	øD1 mm	øD2 mm	M mm	Part. no.	
M12 / Pg 7	13.0	24	1	**1007.80.10**	100
M16	16.5	24	1	**1017.80.10**	100
M20	20.5	28	1	**1020.80.10**	100
M25	25.5	32	1	**1025.80.10**	100
M32	33.0	40	1	**1032.80.10**	100
M40	40.5	52	1	**1040.80.10**	100
M50	50.5	62	1	**1050.80.10**	50
M63	63.5	78	1	**1063.80.10**	50

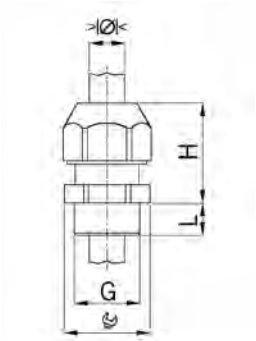
Grounding straps suitable for cable glands / Entry thread Pg

G	øD1 mm	øD2 mm	M mm	Part. no.	
M12 / Pg 7	13.0	24	1	**1007.80.10**	100
Pg 9	16.0	24	1	**1009.80.10**	100
Pg 11	19.0	28	1	**1011.80.10**	100
Pg 13	21.0	28	1	**1013.80.10**	100
Pg 16	23.0	32	1	**1016.80.10**	100
Pg 21	29.0	37	1	**1021.80.10**	100
Pg 29	38.0	52	1	**1029.80.10**	50
Pg 36	48.0	62	1	**1036.80.10**	50

Synthetic Cable Glands Syntec®

with Lamellar Technology

SHORT ENTRY THREAD METRIC



Material:	Polyamide PA 6
Properties:	halogen-free
Sealing ring:	TPE or CR (Neoprene)
Tested acc. to:	EN 50262
Temperature range:	-30°C / +100°C
Protection class:	IP 68

SYNTEC

Light grey RAL 7035 / One-piece sealing ring

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Part. no.	
M12x1.5	2.5	6.5	15	21	6	**1555.12.06**	100
M16x1.5	2.0	6.0	19	25	8	**1555.17.06**	50
M16x1.5	4.5	10.0	19	25	8	**1555.17.10**	50
M20x1.5	3.5	8.0	24	29	9	**1555.20.08**	50
M20x1.5	7.0	13.0	24	29	9	**1555.20.13**	50
M25x1.5	5.0	11.0	29	38	10	**1555.25.11**	25
M25x1.5	10.0	17.0	29	38	10	**1555.25.17**	25
M32x1.5	17.0	25.0	42	36	10	**1555.32.25**	20

SYNTEC

Dark grey RAL 7001 / One-piece sealing ring

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Part. no.	
M12x1.5	2.5	6.5	15	21	6	**1556.12.06**	100
M16x1.5	2.0	6.0	19	25	8	**1556.17.06**	50
M16x1.5	4.5	10.0	19	25	8	**1556.17.10**	50
M20x1.5	3.5	8.0	24	29	9	**1556.20.08**	50
M20x1.5	7.0	13.0	24	29	9	**1556.20.13**	50
M25x1.5	5.0	11.0	29	38	10	**1556.25.11**	25
M25x1.5	10.0	17.0	29	38	10	**1556.25.17**	25
M32x1.5	17.0	25.0	42	36	10	**1556.32.25**	20

SYNTEC

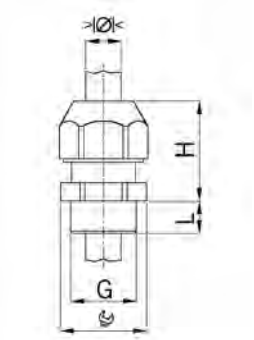
Black RAL 9005 / One-piece sealing ring

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Part. no.	
M12x1.5	2.5	6.5	15	21	6	**1545.12.06**	100
M16x1.5	2.0	6.0	19	25	8	**1545.17.06**	50
M16x1.5	4.5	10.0	19	25	8	**1545.17.10**	50
M20x1.5	3.5	8.0	24	29	9	**1545.20.08**	50
M20x1.5	7.0	13.0	24	29	9	**1545.20.13**	50
M25x1.5	5.0	11.0	29	38	10	**1545.25.11**	25
M25x1.5	10.0	17.0	29	38	10	**1545.25.17**	25
M32x1.5	17.0	25.0	42	36	10	**1545.32.25**	20

WITH LAMELLAR TECHNOLOGY

LONG ENTRY THREAD METRIC

MATERIAL:	POLYAMIDE PA 6
PROPERTIES:	HALOGEN-FREE
SEALING RING:	TPE OR CR (NEOPRENE)
TESTED ACC. TO:	EN 50262
TEMPERATURE RANGE:	-30°C / +100°C
PROTECTION CLASS:	IP 68



SYNTEC

LIGHT GREY RAL 7035 / ONE-PIECE SEALING RING

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	PART. NO.	
M12x1.5	2.5	6.5	15	21	12	**1555.12.1.06**	100
M16x1.5	2.0	6.0	19	25	15	**1555.17.1.06**	50
M16x1.5	4.5	10.0	19	25	15	**1555.17.1.10**	50
M20x1.5	3.5	8.0	24	29	15	**1555.20.1.08**	50
M20x1.5	7.0	13.0	24	29	15	**1555.20.1.13**	50
M25x1.5	5.0	11.0	29	38	15	**1555.25.1.11**	25
M25x1.5	10.0	17.0	29	38	15	**1555.25.1.17**	25
M32x1.5	17.0	25.0	42	36	15	**1555.32.1.25**	20
M40x1.5	22.0	33.0	53	48	15	**1555.40.1.33**	10
M50x1.5	28.0	38.0	60	48	15	**1555.50.1.38**	5
M63x1.5	32.0	44.0	65	49	16	**1555.63.1.44**	5

SYNTEC

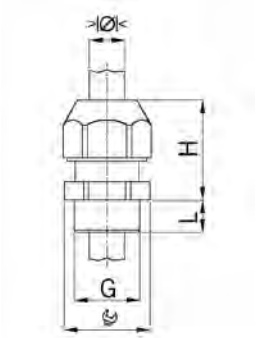
DARK GREY RAL 7001 / ONE-PIECE SEALING RING

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	PART. NO.	
M12x1.5	2.5	6.5	15	21	12	**1556.12.1.06**	100
M16x1.5	2.0	6.0	19	25	15	**1556.17.1.06**	50
M16x1.5	4.5	10.0	19	25	15	**1556.17.1.10**	50
M20x1.5	3.5	8.0	24	29	15	**1556.20.1.08**	50
M20x1.5	7.0	13.0	24	29	15	**1556.20.1.13**	50
M25x1.5	5.0	11.0	29	38	15	**1556.25.1.11**	25
M25x1.5	10.0	17.0	29	38	15	**1556.25.1.17**	25
M32x1.5	17.0	25.0	42	36	15	**1556.32.1.25**	20
M40x1.5	22.0	33.0	53	48	15	**1556.40.1.33**	10
M50x1.5	28.0	38.0	60	48	15	**1556.50.1.38**	5
M63x1.5	32.0	44.0	65	49	16	**1556.63.1.44**	5

Synthetic Cable Glands Syntec®

with Lamellar Technology

LONG ENTRY THREAD METRIC



Material:	Polyamide PA 6
Properties:	halogen-free
Sealing ring:	TPE or CR (Neoprene)
Tested acc. to:	EN 50262
Temperature range:	-30°C / +100°C
Protection class:	IP 68

SYNTEC

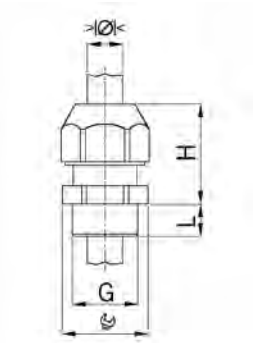
Black RAL 9005 / One-piece sealing ring

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Part. no.	
M12x1.5	2.5	6.5	15	21	12	**1545.12.1.06**	100
M16x1.5	2.0	6.0	19	25	15	**1545.17.1.06**	50
M16x1.5	4.5	10.0	19	25	15	**1545.17.1.10**	50
M20x1.5	3.5	8.0	24	29	15	**1545.20.1.08**	50
M20x1.5	7.0	13.0	24	29	15	**1545.20.1.13**	50
M25x1.5	5.0	11.0	29	38	15	**1545.25.1.11**	25
M25x1.5	10.0	17.0	29	38	15	**1545.25.1.17**	25
M32x1.5	17.0	25.0	42	36	15	**1545.32.1.25**	20
M40x1.5	22.0	33.0	53	48	15	**1545.40.1.33**	10
M50x1.5	28.0	38.0	60	48	15	**1545.50.1.38**	5
M63x1.5	32.0	44.0	65	49	16	**1545.63.1.44**	5

WITH LAMELLAR TECHNOLOGY

ENTRY THREAD PG

MATERIAL:	POLYAMIDE PA 6
PROPERTIES:	HALOGEN-FREE
SEALING RING:	CR (NEOPRENE)
TEMPERATURE RANGE:	-30°C / +100°C
PROTECTION CLASS:	IP 68



SYNTEC

LIGHT GREY RAL 7035 / ONE-PIECE SEALING RING

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	PART. NO.	
PG 7	2.5	6.5	15	21	8	**1555.07.06**	100
PG 9	3.0	8.0	19	23	8	**1555.09.08**	50
PG 11	2.0	7.0	22	25	8	**1555.11.07**	50
PG 11	4.0	10.0	22	25	8	**1555.11.10**	50
PG 13	3.0	7.0	24	26	9	**1555.13.07**	50
PG 13	5.5	12.0	24	26	9	**1555.13.12**	50
PG 16	5.0	11.0	27	30	10	**1555.16.11**	50
PG 16	8.5	14.0	27	30	10	**1555.16.14**	50
PG 21	6.5	14.0	33	35	11	**1555.21.14**	25
PG 21	11.0	18.0	33	35	11	**1555.21.18**	25
PG 29	17.0	25.0	42	36	11	**1555.29.25**	20
PG 36	22.0	33.0	53	48	15	**1555.36.33**	10
PG 42	28.0	38.0	60	48	15	**1555.42.38**	5
PG 48	32.0	44.0	65	48	15	**1555.48.44**	5

SYNTEC

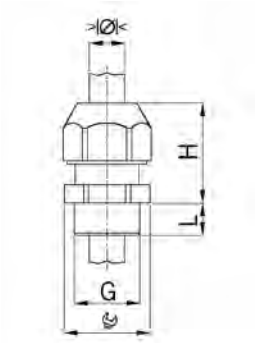
DARK GREY RAL 7001 / ONE-PIECE SEALING RING

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	PART. NO.	
PG 7	2.5	6.5	15	21	8	**1556.07.06**	100
PG 9	3.0	8.0	19	23	8	**1556.09.08**	50
PG 11	2.0	7.0	22	25	8	**1556.11.07**	50
PG 11	4.0	10.0	22	25	8	**1556.11.10**	50
PG 13	3.0	7.0	24	26	9	**1556.13.07**	50
PG 13	5.5	12.0	24	26	9	**1556.13.12**	50
PG 16	5.0	11.0	27	30	10	**1556.16.11**	50
PG 16	8.5	14.0	27	30	10	**1556.16.14**	50
PG 21	6.5	14.0	33	35	11	**1556.21.14**	25
PG 21	11.0	18.0	33	35	11	**1556.21.18**	25
PG 29	17.0	25.0	42	36	11	**1556.29.25**	20
PG 36	22.0	33.0	53	48	15	**1556.36.33**	10
PG 42	28.0	38.0	60	48	15	**1556.42.38**	5
PG 48	32.0	44.0	65	48	15	**1556.48.44**	5

Synthetic Cable Glands Syntec®

with Lamellar Technology

ENTRY THREAD PG



Material:	Polyamide PA 6
Properties:	halogen-free
Sealing ring:	CR (neoprene)
Temperature range:	-30°C / +100°C
Protection class:	IP 68

SYNTEC

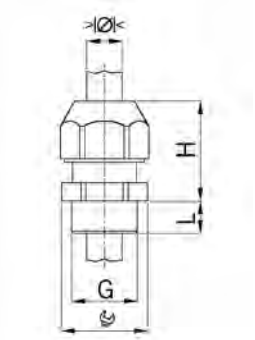
Black RAL 9005 / One-piece sealing ring

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Part. no.	
Pg 7	2.5	6.5	15	21	8	**1545.07.06**	100
Pg 9	3.0	8.0	19	23	8	**1545.09.08**	50
Pg 11	2.0	7.0	22	25	8	**1545.11.07**	50
Pg 11	4.0	10.0	22	25	8	**1545.11.10**	50
Pg 13	3.0	7.0	24	26	9	**1545.13.07**	50
Pg 13	5.5	12.0	24	26	9	**1545.13.12**	50
Pg 16	5.0	11.0	27	30	10	**1545.16.11**	50
Pg 16	8.5	14.0	27	30	10	**1545.16.14**	50
Pg 21	6.5	14.0	33	35	11	**1545.21.14**	25
Pg 21	11.0	18.0	33	35	11	**1545.21.18**	25
Pg 29	17.0	25.0	42	36	11	**1545.29.25**	20
Pg 36	22.0	33.0	53	48	15	**1545.36.33**	10
Pg 42	28.0	38.0	60	48	15	**1545.42.38**	5
Pg 48	32.0	44.0	65	48	15	**1545.48.44**	5

WITH LAMELLAR TECHNOLOGY

ENTRY THREAD NPT

MATERIAL:	POLYAMIDE PA 6
PROPERTIES:	HALOGEN-FREE
SEALING RING:	CR (NEOPRENE)
TEMPERATURE RANGE:	-30°C / +100°C
PROTECTION CLASS:	IP 54
PROTECTION TYPE ADDITION:	IP 68, IF THE ENTRY THREAD IS SEALED



SYNTEC

LIGHT GREY RAL 7035 / ONE-PIECE SEALING RING

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	PART. NO.	
NPT 3/8"	3.0	8.0	19/22	23	15	**1555.N0375.08**	50
NPT 1/2"	3.0	7.0	24	26	15	**1555.N0500.07**	50
NPT 1/2"	5.5	12.0	24	26	15	**1555.N0500.12**	50
NPT 3/4"	6.5	14.0	33	35	15	**1555.N0750.14**	25
NPT 3/4"	11.0	18.0	33	35	15	**1555.N0750.18**	25
NPT 1"	17.0	22.0	42	36	15	**1555.N1000.22**	20

SYNTEC

DARK GREY RAL 7001 / ONE-PIECE SEALING RING

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	PART. NO.	
NPT 3/8"	3.0	8.0	19/22	23	15	**1556.N0375.08**	50
NPT 1/2"	3.0	7.0	24	26	15	**1556.N0500.07**	50
NPT 1/2"	5.5	12.0	24	26	15	**1556.N0500.12**	50
NPT 3/4"	6.5	14.0	33	35	15	**1556.N0750.14**	25
NPT 3/4"	11.0	18.0	33	35	15	**1556.N0750.18**	25
NPT 1"	17.0	22.0	42	36	15	**1556.N1000.22**	20

SYNTEC

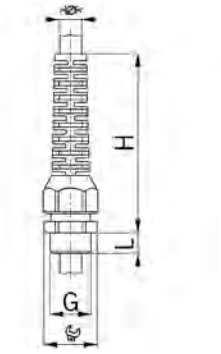
BLACK RAL 9005 / ONE-PIECE SEALING RING

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	PART. NO.	
NPT 3/8"	3.0	8.0	19/22	23	15	**1545.N0375.08**	50
NPT 1/2"	3.0	7.0	24	26	15	**1545.N0500.07**	50
NPT 1/2"	5.5	12.0	24	26	15	**1545.N0500.12**	50
NPT 3/4"	6.5	14.0	33	35	15	**1545.N0750.14**	25
NPT 3/4"	11.0	18.0	33	35	15	**1545.N0750.18**	25
NPT 1"	17.0	22.0	42	36	15	**1545.N1000.22**	20

Synthetic Cable Glands Syntec®

with Lamellar Technology & Antikink Nozzle

short entry thread metric



Material:	Polyamide PA 6
Properties:	halogen-free
Sealing ring:	CR (neoprene)
Tested acc. to:	EN 50262
Temperature range:	-30°C / +100°C
Protection class:	IP 68

SYNTEC

Light grey RAL 7035 / One-piece sealing ring

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Part. no.	
M12x1.5	2.5	6.5	15	54	6	**1576.12.06**	50
M16x1.5	4.0	8.0	19	64	6	**1576.17.08**	50
M20x1.5	3.0	7.0	24	88	8	**1576.20.07**	50
M20x1.5	5.5	12.0	24	88	8	**1576.20.12**	50

SYNTEC

Dark grey RAL 7001 / One-piece sealing ring

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Part. no.	
M12x1.5	2.5	6.5	15	54	6	**1577.12.06**	50
M16x1.5	4.0	8.0	19	64	6	**1577.17.08**	50
M20x1.5	3.0	7.0	24	88	8	**1577.20.07**	50
M20x1.5	5.5	12.0	24	88	8	**1577.20.12**	50

SYNTEC

Black RAL 9005 / One-piece sealing ring

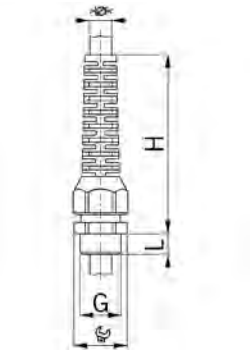
G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Part. no.	
M12x1.5	2.5	6.5	15	54	6	**1546.12.06**	50
M16x1.5	4.0	8.0	19	64	6	**1546.17.08**	50
M20x1.5	3.0	8.0	24	88	8	**1546.20.07**	50
M20x1.5	5.5	12.0	24	88	8	**1546.20.12**	50

Synthetic Cable Glands Syntec®

with Lamellar Technology & Antikink Nozzle

Long entry thread metric

Material:	Polyamide PA 6
Properties:	halogen-free
Sealing ring:	CR (neoprene)
Tested acc. to:	EN 50262
Temperature range:	-30°C / +100°C
Protection class:	IP 68



SYNTEC

Light grey RAL 7035 / One-piece sealing ring

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Part. no.	
M12x1.5	2.5	6.5	15	54	12	**1576.12.1.06**	50
M16x1.5	4.0	8.0	19	64	12	**1576.17.1.08**	50
M20x1.5	3.0	7.0	24	88	13	**1576.20.1.07**	50
M20x1.5	5.5	12.0	24	88	13	**1576.20.1.12**	50

SYNTEC

Dark grey RAL 7001 / One-piece sealing ring

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Part. no.	
M12x1.5	2.5	6.5	15	54	12	**1577.12.1.06**	50
M16x1.5	4.0	8.0	19	64	12	**1577.17.1.08**	50
M20x1.5	3.0	7.0	24	88	13	**1577.20.1.07**	50
M20x1.5	5.5	12.0	24	88	13	**1577.20.1.12**	50

SYNTEC

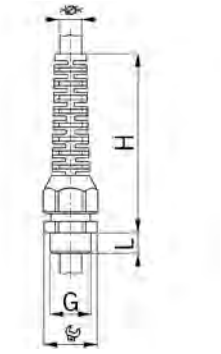
Black RAL 9005 / One-piece sealing ring

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Part. no.	
M12x1.5	2.5	6.5	15	54	12	**1546.12.1.06**	50
M16x1.5	4.0	8.0	19	64	12	**1546.17.1.08**	50
M20x1.5	3.0	7.0	24	88	13	**1546.20.1.07**	50
M20x1.5	5.5	12.0	24	88	13	**1546.20.1.12**	50

Synthetic Cable Glands Syntec®

with Lamellar Technology & Antikink Nozzle

ENTRY THREAD PG



Material:	Polyamide PA 6
Properties:	halogen-free
Sealing ring:	CR (neoprene)
Temperature range:	-30°C / +100°C
Protection class:	IP 68

SYNTEC

Light grey RAL 7035 / One-piece sealing ring

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Part. no.	
Pg 7	2.5	6.5	15	54	8	**1576.07.06**	50
Pg 9	3.0	8.0	19	64	8	**1576.09.08**	50
Pg 11	2.0	7.0	22	77	8	**1576.11.07**	50
Pg 11	4.0	10.0	22	77	8	**1576.11.10**	50
Pg 13	3.0	7.0	24	88	9	**1576.13.07**	50
Pg 13	5.5	12.0	24	88	9	**1576.13.12**	50
Pg 16	5.0	11.0	27	102	10	**1576.16.11**	50
Pg 16	8.5	14.0	27	102	10	**1576.16.14**	50

SYNTEC

Dark grey RAL 7001 / One-piece sealing ring

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Part. no.	
Pg 7	2.5	6.5	15	54	8	**1577.07.06**	50
Pg 9	3.0	8.0	19	64	8	**1577.09.08**	50
Pg 11	2.0	7.0	22	77	8	**1577.11.07**	50
Pg 11	4.0	10.0	22	77	8	**1577.11.10**	50
Pg 13	3.0	7.0	24	88	9	**1577.13.07**	50
Pg 13	5.5	12.0	24	88	9	**1577.13.12**	50
Pg 16	5.0	11.0	27	102	10	**1577.16.11**	50
Pg 16	8.5	14.0	27	102	10	**1577.16.14**	50

SYNTEC

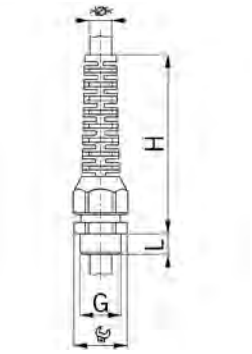
Black RAL 9005 / One-piece sealing ring

G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Part. no.	
Pg 7	2.5	6.5	15	54	8	**1546.07.06**	50
Pg 9	3.0	8.0	19	64	8	**1546.09.08**	50
Pg 11	2.0	7.0	22	77	8	**1546.11.07**	50
Pg 11	4.0	10.0	22	77	8	**1546.11.10**	50
Pg 13	3.0	7.0	24	88	9	**1546.13.07**	50
Pg 13	5.5	12.0	24	88	9	**1546.13.12**	50
Pg 16	5.0	11.0	27	102	10	**1546.16.11**	50
Pg 16	8.5	14.0	27	102	10	**1546.16.14**	50

WITH LAMELLAR TECHNOLOGY & ANTIKINK NOZZLE

ENTRY THREAD NPT

MATERIAL:	POLYAMIDE PA 6
PROPERTIES:	HALOGEN-FREE
SEALING RING:	CR (NEOPRENE)
TEMPERATURE RANGE:	-30°C / +100°C
PROTECTION CLASS:	IP 54
PROTECTION TYPE ADDITION:	IP 68, IF THE ENTRY THREAD IS SEALED



SYNTEC

LIGHT GREY RAL 7035 / ONE-PIECE SEALING RING

G	>|Ø|< min mm	>|Ø|< max mm	mm	H mm	L mm	PART. NO.	
NPT 3/8"	3.0	8.0	19/22	64	15	**1576.N0375.08**	50
NPT 1/2"	3.0	7.0	24	88	15	**1576.N0500.07**	50
NPT 1/2"	5.5	12.0	24	88	15	**1576.N0500.12**	50

SYNTEC

DARK GREY RAL 7001 / ONE-PIECE SEALING RING

G	>|Ø|< min mm	>|Ø|< max mm	mm	H mm	L mm	PART. NO.	
NPT 3/8"	3.0	8.0	19/22	64	15	**1577.N0375.08**	50
NPT 1/2"	3.0	7.0	24	88	15	**1577.N0500.07**	50
NPT 1/2"	5.5	12.0	24	88	15	**1577.N0500.12**	50

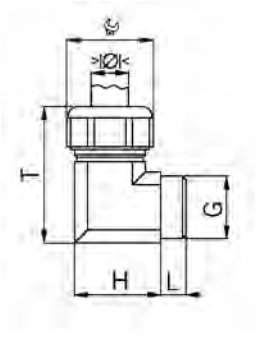
SYNTEC

BLACK RAL 9005 / ONE-PIECE SEALING RING

G	>|Ø|< min mm	>|Ø|< max mm	mm	H mm	L mm	PART. NO.	
NPT 3/8"	3.0	8.0	19/22	64	15	**1546.N0375.08**	50
NPT 1/2"	3.0	7.0	24	88	15	**1546.N0500.07**	50
NPT 1/2"	5.5	12.0	24	88	15	**1546.N0500.12**	50

Synthetic Cable Glands Elbow 90°

Entry thread metric



Material:	Polyamide PA 6
Seal:	PVC / TPE
Temperature range:	-20°C / +100°C
Protection class:	IP 68

Light grey RAL 7035 / One-piece sealing insert

G	>Ø< min mm	>Ø< max mm	mm	H mm	T mm	L mm	Part. no.	
M16x1.5	6.5	9.5	19	22	38	8	**5215.17.95**	25
M20x1.5	7.0	10.5	24	28	46	9	**5215.20.105**	25
M20x1.5	9.0	13.0	24	28	46	9	**5215.20.13**	25
M25x1.5	11.5	15.5	27	32	52	10	**5215.25.155**	25

Black RAL 9005 / One-piece sealing insert

G	>Ø< min mm	>Ø< max mm	mm	H mm	T mm	L mm	Part. no.	
M16x1.5	6.5	9.5	19	22	38	8	**5215.17.40.95**	25
M20x1.5	7.0	10.5	24	28	46	9	**5215.20.40.105**	25
M20x1.5	9.0	13.0	24	28	46	9	**5215.20.40.13**	25
M25x1.5	11.5	15.5	27	32	52	10	**5215.25.40.155**	25

Entry thread PG

Light grey RAL 7035 / One-piece sealing insert

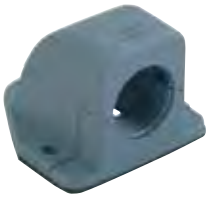
G	>Ø< min mm	>Ø< max mm	mm	H mm	T mm	L mm	Part. no.	
Pg 9	4.5	6.5	19	22	38	8	**5215.09.65**	25
Pg 9	6.5	9.5	19	22	38	8	**5215.09.95**	25
Pg 11	7.0	10.5	22	25	42	9	**5215.11.105**	25
Pg 11	4.0	6.5	22	25	42	9	**5215.11.65**	25
Pg 11	6.5	9.5	22	25	42	9	**5215.11.95**	25
Pg 13	7.0	10.5	24	28	46	9	**5215.13.105**	25
Pg 13	9.0	13.0	24	28	46	9	**5215.13.13**	25
Pg 13	6.5	9.5	24	32	46	9	**5215.13.95**	25
Pg 16	7.0	10.5	27	32	52	10	**5215.16.105**	25
Pg 16	9.0	13.0	27	32	52	10	**5215.16.13**	25
Pg 16	11.5	15.5	27	32	52	10	**5215.16.155**	25
Pg 16	6.5	9.5	27	32	52	10	**5215.16.95**	25

Synthetic Flanged Elbow 90°

Entry thread metric

Material:	Polyamide
Seal:	NBR
Temperature range:	-40°C / +110°C
Protection class:	IP 65
Properties:	The flanged elbow can be opened to insert the cables and therefore permits an effortless installation

Grey



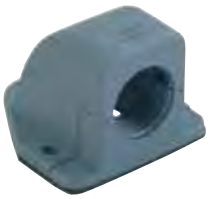
G	A mm	B mm	C mm	D mm	E mm	F mm	H mm	Part. no.	
M16x1.5	49	47	35	22	27	29	37	**5500.20.17**	10
M20x1.5	49	47	35	22	27	29	37	**5500.20.20**	10
M25x1.5	69	65	44	30	31	42	52	**5500.20.25**	10
M32x1.5	90	78	55	40	65	65	65	**5500.20.32**	10
M40x1.5	100	94	66	48	68	80	80	**5500.20.40**	5
M50x1.5	116	101	76	63	85	88	88	**5500.20.50**	5

Black

G	A mm	B mm	C mm	D mm	E mm	F mm	H mm	Part. no.	
M16x1.5	49	47	35	22	27	29	37	**5500.40.17**	10
M20x1.5	49	47	35	22	27	29	37	**5500.40.20**	10
M25x1.5	69	65	44	30	31	42	52	**5500.40.25**	10
M32x1.5	90	78	55	40	65	65	65	**5500.40.32**	10
M40x1.5	100	94	66	48	68	80	80	**5500.40.40**	5
M50x1.5	116	101	76	63	85	88	88	**5500.40.50**	5

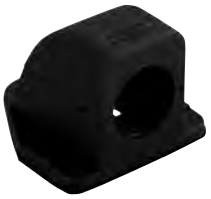
Entry thread PG

Grey

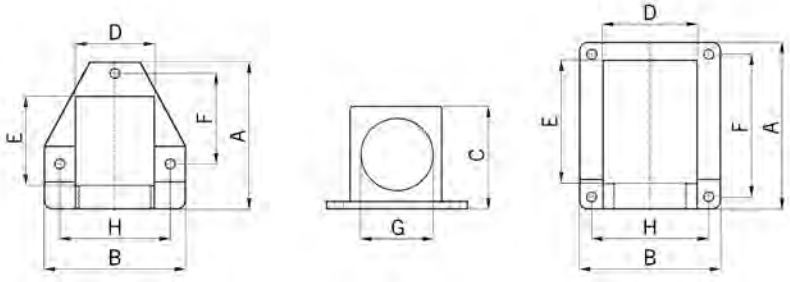


G	A mm	B mm	C mm	D mm	E mm	F mm	H mm	Part. no.	
Pg 11	49	47	35	22	27	29	37	**5520.11**	10
Pg 16	49	47	35	22	27	29	37	**5520.16**	10
Pg 21	69	65	44	30	31	42	52	**5520.21**	10
Pg 29	90	78	55	40	65	65	65	**5520.29**	10
Pg 36	100	94	66	48	68	80	80	**5520.36**	5
Pg 48	116	101	76	63	85	88	88	**5520.48.48**	5

Black

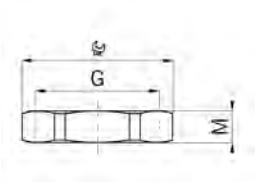


G	A mm	B mm	C mm	D mm	E mm	F mm	H mm	Part. no.	
Pg 11	49	47	35	22	27	29	37	**5540.11**	10
Pg 16	49	47	35	22	27	29	37	**5540.16**	10
Pg 21	69	65	44	30	31	42	52	**5540.21**	10
Pg 29	90	78	55	40	65	65	65	**5540.29**	10
Pg 36	100	94	66	48	68	80	80	**5540.36**	5
Pg 48	116	101	76	63	85	88	88	**5540.48.48**	5



Lock Nut Nickel-Plated Brass

Entry thread metric



Material: Nickel-plated brass
Execution: Hexagonal design
Temperature range: -40°C / +200°C

Metric thread

G	mm	M mm	i info	Part. no.	
M6x0.75	9	2.8	-	**8000.06.1**	50
M6x1.0	9	2.8	1	**8000.06**	50
M8x1.0	11	2.8	-	**8000.08.1**	50
M8x1.25	11	2.8	1	**8000.08**	50
M10x1.0	13	2.8	-	**8000.10.1**	50
M10x1.5	13	2.8	1	**8000.10**	50
M12x1.5	15	3.0	-	**8000.12**	100
M16x1.5	19	3.0	-	**8000.17**	100
M20x1.5	24	3.5	-	**8000.20**	100
M25x1.5	30	4.0	-	**8000.25**	50
M32x1.5	36	4.0	-	**8000.32**	25
M40x1.5	46	5.0	-	**8000.40**	25
M50x1.5	55	5.5	-	**8000.50**	10
M63x1.5	70	6.0	-	**8000.63**	10
M75x1.5	80	6.0	-	**8000.75**	10
M80x2.0	95	8	-	**8000.080**	5
M85x2.0	95	8.0	-	**8000.085**	5
M95x2.0	110	9.0	-	**8000.095**	5
M100x3.0	115	9.0	-	**8000.100**	1
M105x3.0	120	9.0	-	**8000.105**	1
M115x3.0	125	10.0	-	**8000.115**	1

1 = Metric coarse-pitch thread

Entry thread PG

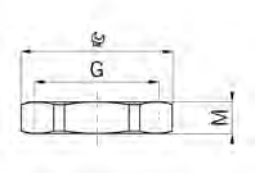
PG thread

G	mm	M mm	Part. no.	
PG 7	15	3.0	**8007**	50
PG 9	18	3.0	**8009**	50
PG 11	21	3.0	**8011**	50
PG 13	23	3.0	**8013**	50
PG 16	26	3.0	**8016**	50
PG 21	32	3.5	**8021**	25
PG 29	41	4.0	**8029**	10
PG 36	51	5.0	**8036**	10
PG 42	60	5.0	**8042**	10
PG 48	64	5.5	**8048.48**	10

Lock Nut Nickel-Plated Brass

gas-pipe thread metric

Material: Nickel-plated brass
Execution: Hexagonal design
Temperature range: -40°C / +200°C



Gas-pipe thread

G	mm	M mm	info	Part. no.	
G 3/8"	19	3.0	-	**803/8G**	10
G 1/2"	24	3.0	-	**801/2G**	10
G 3/8"	26	3.0	-	**805/8G**	10
G 3/4"	30	3.5	-	**803/4G**	10
G 1"	38	4.5	-	**801G**	10
G 1 1/2"	51	5.0	-	**8011/2G**	10
G 1 1/4"	46	5.0	-	**8011/4G**	10
G 2"	64	5.5	-	**8048**	10
G 2 1/2"	Ø90	12.0	1	**8050**	50
G 3"	Ø105	12.0	1	**8051**	50

1 = Round form, zinc coated steel

entry thread metric

Thick-walled version

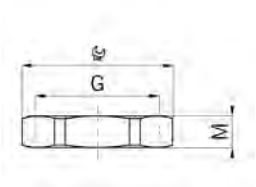
G	mm	M mm	Part. no.	
M12x1.5	15	5.0	**8300.12**	50
M16x1.5	19	5.0	**8300.17**	50
M20x1.5	24	5.5	**8300.20**	50
M25x1.5	30	5.5	**8300.25**	50
M32x1.5	36	6.0	**8300.32**	50
M40x1.5	46	7.0	**8300.40**	50

entry thread PG

Thick-walled version

G	mm	M mm	Part. no.	
Pg 7	15	5.0	**8300.07**	50
Pg 9	18	5.0	**8300.09**	50
Pg 11	21	5.0	**8300.11**	50
Pg 13	24	5.5	**8300.13**	50
Pg 16	26	5.5	**8300.16**	50
Pg 21	32	6.0	**8300.21**	50
Pg 29	41	7.0	**8300.29**	50

Lock Nut Nickel-Plated Brass
with Recess for O-Ring
ENTRY THREAD METRIC



Material:	Nickel-plated brass
Execution:	Hexagonal design
O-ring:	To be ordered separately
Temperature range:	-40°C / +200°C

Thick-walled version without O-Ring

G	mm	M mm	O-ring	Part. no.	
M12x1.5	15	5.0	1007.00.08	**8300.12.1**	50
M16x1.5	19	5.0	1016.00.15.08	**8300.17.1**	50
M20x1.5	24	5.5	1016.00.08	**8300.20.1**	50
M25x1.5	30	5.5	1013.00.22.08	**8300.25.1**	50
M32x1.5	36	6.0	1021.00.30.08	**8300.32.1**	50
M40x1.5	46	7.0	1029.00.39.08	**8300.40.1**	50
M50x1.5	55	7.5	1036.00.49.08	**8300.50.1**	10
M63x1.5	70	8.0	1048.00.62.08	**8300.63.1**	10

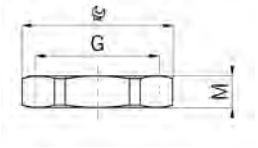
Stainless Steel Lock Nuts

stainless steel A2

Material: CrNi stainless steel A2
(DIN EN 1.4305 / AISI 303)

Execution: Hexagonal design

Temperature range: -40°C / +300°C



Metric thread

G	mm	M mm	i info	Part. no.	
M8x1.25	11	2.8	1	**8008.96**	50
M10x1.5	13	2.8	1	**8010.96**	50
M12x1.5	17	3.0	-	**8012.96**	50
M16x1.5	19	3.0	-	**8017.96**	50
M20x1.5	24	3.5	-	**8020.96**	50
M25x1.5	30	3.5	-	**8025.96**	25
M32x1.5	36	4.5	-	**8032.96**	25
M40x1.5	46	4.5	-	**8040.96**	10
M50x1.5	55	5.5	-	**8050.96**	10
M63x1.5	70	6.0	-	**8063.96**	5

1 = Metric coarse-pitch thread

Pg thread

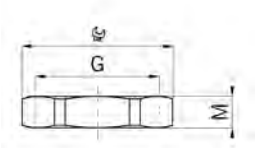
G	mm	M mm	Part. no.	
Pg 7	17	3.5	**8007.96**	50
Pg 9	19	3.5	**8009.96**	50
Pg 11	22	3.5	**8011.96**	50
Pg 13	24	4.0	**8013.96**	50
Pg 16	27	4.0	**8016.96**	50
Pg 21	32	4.5	**8021.96**	25
Pg 29	41	5.5	**8029.96**	10
Pg 36	51	6.0	**8036.96**	10

stainless steel and acid resistant A4

Material: Stainless and acid resistant steel A4 CrNiMo
(DIN EN 1.4435 / AISI 316L)

Execution: Hexagonal design

Temperature range: -40°C / +300°C



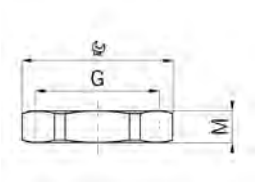
metric thread

G	mm	M mm	i info	Part. no.	
M8x1.25	11	2.8	1	**8008.98**	50
M10x1.5	13	2.8	1	**8010.98**	50
M12x1.5	17	3.0	-	**8012.98**	50
M16x1.5	19	3.0	-	**8017.98**	50
M20x1.5	24	3.5	-	**8020.98**	50
M25x1.5	30	3.5	-	**8025.98**	25
M32x1.5	36	4.5	-	**8032.98**	25
M40x1.5	46	4.5	-	**8040.98**	10
M50x1.5	55	5.5	-	**8050.98**	10
M63x1.5	70	6.0	-	**8063.98**	5

1 = Metric coarse-pitch thread

Synthetic Lock Nuts

Entry thread metric



Material:	Polyamide glass fiber reinforced
Execution:	Hexagonal design
Temperature range:	-40°C / +100°C

light grey RAL 7035

G	mm	M mm	Part. no.	
M12x1.5	17	5.5	**8212**	100
M16x1.5	22	5.5	**8217**	100
M20x1.5	26	6.5	**8220**	100
M25x1.5	32	7.0	**8225**	100
M32x1.5	41	7.0	**8232**	100
M40x1.5	50	7.0	**8240**	50
M50x1.5	60	8.5	**8250**	10

black RAL 9005

G	mm	M mm	Part. no.	
M12x1.5	17	5.5	**8212.40**	100
M16x1.5	22	5.5	**8217.40**	100
M20x1.5	26	6.5	**8220.40**	100
M25x1.5	32	7.0	**8225.40**	100
M32x1.5	41	7.0	**8232.40**	100
M40x1.5	50	7.0	**8240.40**	50
M50x1.5	60	8.5	**8250.40**	10

Entry thread PG

light grey RAL 7035

G	mm	M mm	Part. no.	
Pg 7	19	5.0	**8207**	100
Pg 9	22	6.0	**8209**	100
Pg 11	24	6.0	**8211**	100
Pg 13	27	6.0	**8213**	100
Pg 16	30	6.0	**8216**	100
Pg 21	36	7.0	**8221**	100
Pg 29	46	7.0	**8229**	50
Pg 36	60	8.0	**8236**	25
Pg 42	65	8.0	**8242**	25
Pg 48	70	8.0	**8248.48**	25

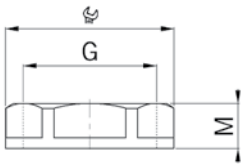
black RAL 9005

G	mm	M mm	Part. no.	
Pg 7	19	5.0	**8207.40**	100
Pg 9	22	6.0	**8209.40**	100
Pg 11	24	6.0	**8211.40**	100
Pg 13	27	6.0	**8213.40**	100
Pg 16	30	6.0	**8216.40**	100
Pg 21	36	7.0	**8221.40**	100
Pg 29	46	7.0	**8229.40**	50
Pg 36	60	8.0	**8236.40**	25
Pg 42	65	8.0	**8242.40**	25
Pg 48	70	8.0	**8248.48.40**	25

Synthetic Lock Nuts with Flange

Entry thread metric

Material: Polyamide PA 6
Execution: Hexagonal design with flange
Temperature range: -30°C / +100°C



Light grey RAL 7035

G	mm	M mm	Part. no.	
M12x1.5	17	5.0	**8255.12**	100
M16x1.5	22	5.0	**8255.17**	100
M20x1.5	27	6.0	**8255.20**	100
M25x1.5	33	6.7	**8255.25**	100
M32x1.5	42	7.9	**8255.32**	50
M40x1.5	48	8.4	**8255.40**	50
M50x1.5	59	9.9	**8255.50**	10
M63x1.5	73	11.0	**8255.63**	10

Black RAL 9005

G	mm	M mm	Part. no.	
M12x1.5	17	5.0	**8245.12**	100
M16x1.5	22	5.0	**8245.17**	100
M20x1.5	27	6.0	**8245.20**	100
M25x1.5	33	6.7	**8245.25**	100
M32x1.5	42	7.9	**8245.32**	50
M40x1.5	48	8.4	**8245.40**	50
M50x1.5	59	9.9	**8245.50**	10
M63x1.5	73	11.0	**8245.63**	10

Entry thread PG

Light grey RAL 7035

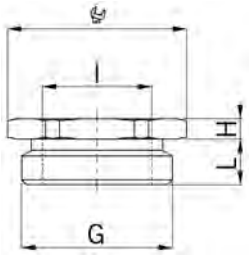
G	mm	M mm	Part. no.	
PG 7	19	5.0	**8255.07**	100
PG 9	21	5.0	**8255.09**	100
PG 11	24	5.0	**8255.11**	100
PG 13	27	6.0	**8255.13**	100
PG 16	30	6.0	**8255.16**	100
PG 21	36	7.0	**8255.21**	50
PG 29	46	8.0	**8255.29**	50
PG 36	59	8.0	**8255.36**	25
PG 42	65	8.0	**8255.42**	10
PG 48	69	8.0	**8255.48**	10

Black RAL 9005

G	mm	M mm	Part. no.	
PG 7	19	5.0	**8245.07**	100
PG 9	21	5.0	**8245.09**	100
PG 11	24	5.0	**8245.11**	100
PG 13	27	6.0	**8245.13**	100
PG 16	30	6.0	**8245.16**	100
PG 21	36	7.0	**8245.21**	50
PG 29	46	8.0	**8245.29**	50
PG 36	59	8.0	**8245.36**	25
PG 42	65	8.0	**8245.42**	10
PG 48	69	8.0	**8245.48**	10

Reduction & Enlarging Fittings Nickel-Plated Brass

Hexagonal reduction fittings



Material:	Nickel-plated brass
O-ring:	NBR
Temperature range:	-40°C / +100°C
Protection class:	IP 68

Outer thread metric / Inner thread metric / with O-ring

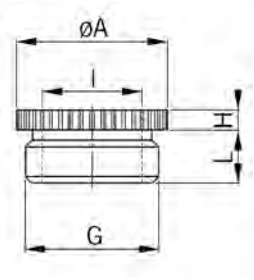
G	I	mm	H mm	L mm	i info	Part. no.	
M 8x1.25	M 6x1.0	11	8.0	5	1	**3500.08.06**	50
M10x1.5	M 6x1.0	13	3.0	5	1	**3500.10.06**	50
M10x1.5	M 8x1.25	13	8.0	5	1	**3500.10.08**	50
M12x1.5	M 8x1.25	15	3.0	5	1	**3500.12.08**	50
M12x1.5	M10x1.5	15	8.0	5	1	**3500.12.10**	50
M16x1.5	M10x1.5	18	3.0	5	1	**3500.17.10**	50
M16x1.5	M12x1.5	18	3.0	5	-	**3500.17.12**	50
M20x1.5	M12x1.5	24	3.0	6	-	**3500.20.12**	50
M20x1.5	M16x1.5	24	3.0	6	-	**3500.20.17**	50
M25x1.5	M16x1.5	30	3.5	7	-	**3500.25.17**	25
M25x1.5	M20x1.5	30	3.5	7	-	**3500.25.20**	25
M32x1.5	M20x1.5	36	4.0	8	-	**3500.32.20**	20
M32x1.5	M25x1.5	36	4.0	8	-	**3500.32.25**	20
M40x1.5	M25x1.5	46	4.5	8	-	**3500.40.25**	10
M40x1.5	M32x1.5	46	4.5	8	-	**3500.40.32**	10
M50x1.5	M32x1.5	55	5.0	9	-	**3500.50.32**	10
M50x1.5	M40x1.5	55	5.0	9	-	**3500.50.40**	10
M63x1.5	M40x1.5	70	5.5	10	-	**3500.63.40**	5
M63x1.5	M50x1.5	70	5.5	10	-	**3500.63.50**	5
M75x1.5	M50x1.5	80	6.0	11	-	**3500.75.50**	5
M75x1.5	M63x1.5	80	6.0	11	-	**3500.75.63**	5

1 = Metric coarse-pitch thread

Reduction & Enlarging Fittings Nickel-Plated Brass

round, knurled reduction fittings

Material:	Nickel-plated brass
Temperature range:	-40°C / +200°C
Protection class:	IP 54
Protection type addition:	IP 68, if the entry thread is sealed

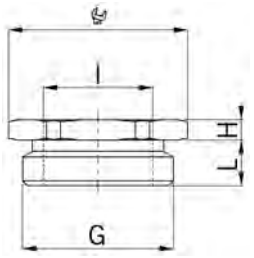


Outer thread metric / Inner thread metric / without O-Ring

G	I	øA mm	H mm	L mm	Part. no.	
M16x1.5	M12x1.5	18	3	7	**3545.17.12**	100
M20x1.5	M12x1.5	22	3	8	**3545.20.12**	100
M20x1.5	M16x1.5	22	3	8	**3545.20.17**	100
M25x1.5	M16x1.5	27	3	8	**3545.25.17**	50
M25x1.5	M20x1.5	27	3	8	**3545.25.20**	50
M32x1.5	M20x1.5	34	4	9	**3545.32.20**	50
M32x1.5	M25x1.5	34	4	9	**3545.32.25**	50
M40x1.5	M25x1.5	42	4.5	9	**3545.40.25**	50
M40x1.5	M32x1.5	42	4.5	9	**3545.40.32**	25
M50x1.5	M32x1.5	52	4.5	10	**3545.50.32**	25
M50x1.5	M40x1.5	52	4.5	10	**3545.50.40**	10
M63x1.5	M40x1.5	65	5	11	**3545.63.40**	10
M63x1.5	M50x1.5	65	5	11	**3545.63.50**	10

hexagonal Reduction Fittings

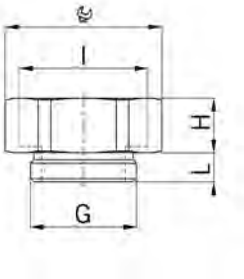
Material:	Nickel-plated brass
O-ring:	NBR
Temperature range:	-40°C / +100°C
Protection class:	IP 68



Outer thread metric / Inner thread metric / with O-ring

G	I	mm	H mm	L mm	Part. no.	
Pg 9	Pg 7	18	3.0	6.5	**3509.07**	50
Pg 11	Pg 7	20	3.0	6.5	**3511.07**	50
Pg 11	Pg 9	22	3.0	7.0	**3511.09**	50
Pg 13	Pg 7	24	3.0	7.0	**3513.07**	50
Pg 13	Pg 9	24	3.0	7.0	**3513.09**	50
Pg 13	Pg 11	24	3.0	7.0	**3513.11**	50
Pg 16	Pg 9	24	3.0	7.0	**3516.09**	50
Pg 16	Pg 11	24	3.0	7.0	**3516.11**	50
Pg 16	Pg 13	27	3.0	7.0	**3516.13**	50
Pg 21	Pg 11	32	3.5	7.5	**3521.11**	25
Pg 21	Pg 13	32	3.5	7.5	**3521.13**	25
Pg 21	Pg 16	32	3.5	7.5	**3521.16**	25
Pg 29	Pg 13	38	4.0	8.0	**3529.13**	10
Pg 29	Pg 16	38	4.0	8.0	**3529.16**	10
Pg 29	Pg 21	38	4.0	8.0	**3529.21**	10
Pg 36	Pg 21	50	4.5	8.5	**3536.21**	10
Pg 36	Pg 29	50	4.5	8.5	**3536.29**	10
Pg 42	Pg 29	60	4.0	11.0	**3542.29**	10
Pg 42	Pg 36	60	4.0	11.0	**3542.36**	10
Pg 48	Pg 36	65	4.0	11.0	**3548.48.36**	10

HEXAGONAL ENLARGING FITTINGS



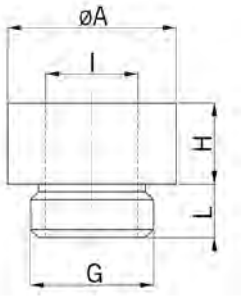
MATERIAL:	NICKEL-PLATED BRASS
O-RING:	NBR
TEMPERATURE RANGE:	-40°C / +100°C
PROTECTION CLASS:	IP 68

OUTER THREAD METRIC / INNER THREAD METRIC / WITH O-RING

G	I	mm	H mm	L mm	i info	PART. NO.	
M 6x1.0	M 8x1.25	11	8.5	5	1	**3600.06.08**	50
M 6x1.0	M10x1.5	13	8.5	5	1	**3600.06.10**	50
M 8x1.25	M10x1.5	13	9	5	1	**3600.08.10**	50
M 8x1.25	M12x1.5	15	9	5	1	**3600.08.12**	50
M10x1.5	M12x1.5	15	9	5	1	**3600.10.12**	50
M10x1.5	M16x1.5	18	9	5	1	**3600.10.17**	50
M12x1.5	M16x1.5	18	9	5	-	**3600.12.17**	50
M12x1.5	M20x1.5	24	10	5	-	**3600.12.20**	50
M16x1.5	M20x1.5	24	10	5	-	**3600.17.20**	50
M20x1.5	M25x1.5	30	11.5	6	-	**3600.20.25**	25
M25x1.5	M32x1.5	36	14	7	-	**3600.25.32**	25
M32x1.5	M40x1.5	46	14	8	-	**3600.32.40**	25
M40x1.5	M50x1.5	55	16	8	-	**3600.40.50**	10
M50x1.5	M63x1.5	70	17	9	-	**3600.50.63**	10
M63x1.5	M75x1.5	80	18	10	-	**3600.63.75**	10

1 = METRIC COARSE-PITCH THREAD

ROUND EXECUTION ENLARGING FITTINGS



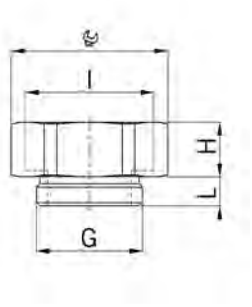
MATERIAL:	NICKEL-PLATED BRASS
TEMPERATURE RANGE:	-40°C / +200°C
PROTECTION CLASS:	IP 54
PROTECTION TYPE ADDITION:	IP 68, IF THE ENTRY THREAD IS SEALED

OUTER THREAD METRIC / INNER THREAD METRIC / WITHOUT O-RING

G	I	øA mm	H mm	L mm	PART. NO.	
M12x1.5	M16x1.5	19	9.5	6.5	**3645.12.17**	100
M16x1.5	M20x1.5	22	10.5	7	**3645.17.20**	100
M20x1.5	M25x1.5	27	11	8	**3645.20.25**	100
M25x1.5	M32x1.5	34	12	8	**3645.25.32**	50
M32x1.5	M40x1.5	42	12	9	**3645.32.40**	50
M40x1.5	M50x1.5	53	14	9	**3645.40.50**	25
M50x1.5	M63x1.5	66	19	10	**3645.50.63**	25

Hexagonal enlarging fittings

Material:	Nickel-plated brass
O-ring:	NBR
Temperature range:	-40°C / +100°C
Protection class:	IP 68

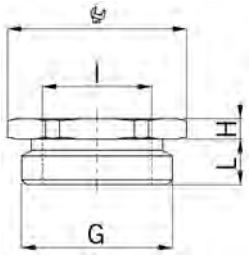


Outer thread metric / Inner thread metric / with O-ring

G	I	mm	H mm	L mm	Part. no.	
Pg 7	Pg 9	18	13	8	**3607.09.08**	50
Pg 9	Pg 11	22	15	8	**3609.11.08**	50
Pg 9	Pg 13	24	15	8	**3609.13.08**	50
Pg 11	Pg 13	24	15	8	**3611.13.08**	50
Pg 11	Pg 16	24	15	8	**3611.16.08**	50
Pg 11	Pg 21	32	16	8	**3611.21.08**	50
Pg 13	Pg 16	24	15	8	**3613.16.08**	50
Pg 16	Pg 21	32	16	8	**3616.21.08**	25
Pg 16	Pg 29	40	16	8	**3616.29.08**	25
Pg 21	Pg 29	40	16	8	**3621.29.08**	25
Pg 29	Pg 36	50	18	10	**3629.36.08**	20
Pg 36	Pg 42	60	19	12	**3636.42.08**	10
Pg 36	Pg 48	64	20	12	**3636.48.48.08**	10

Adapter Nickel-Plated Brass

HEXAGONAL



Material:	Nickel-plated brass
O-ring:	NBR
Temperature range:	-40°C / +100°C
Protection class:	IP 68

Outer thread metric / Inner thread Pg / with O-ring

G	I	mm	H mm	L mm	Part. no.	
M16x1.5	Pg 7	20	3.0	7	**3500.17.07**	50
M20x1.5	Pg 7	24	3.0	7	**3500.20.07**	50
M20x1.5	Pg 9	24	3.0	7	**3500.20.09**	50
M20x1.5	Pg 11	24	13.0	7	**3500.20.11**	50
M25x1.5	Pg 9	30	3.5	8	**3500.25.09**	50
M25x1.5	Pg 11	30	3.5	8	**3500.25.11**	50
M25x1.5	Pg 13	30	3.8	8	**3500.25.13**	50
M25x1.5	Pg 16	30	15.0	8	**3500.25.16**	25
M32x1.5	Pg 21	38	16.0	8	**3500.32.21**	25
M40x1.5	Pg 29	45	16.0	8	**3500.40.29**	10
M50x1.5	Pg 29	55	4.0	10	**3500.50.29**	10
M63x1.5	Pg 36	70	5.5	11	**3500.63.36**	10

Outer thread metric / Inner thread Pg / with O-ring

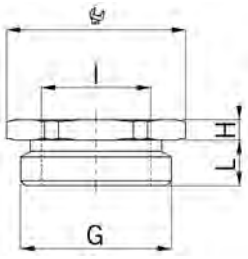
G	I	mm	H mm	L mm	info	Part. no.	
M10x1.5	Pg 7	16	12	6	1	**3600.10.07**	50
M10x1.5	Pg 9	18	12	6	1	**3600.10.09**	50
M12x1.5	Pg 9	18	12	7	-	**3600.12.09**	50
M16x1.5	Pg 11	22	14	7	-	**3600.17.11**	50
M20x1.5	Pg 13	24	15	7	-	**3600.20.13**	50
M20x1.5	Pg 16	24	15	7	-	**3600.20.16**	50
M25x1.5	Pg 21	32	16	8	-	**3600.25.21**	25
M32x1.5	Pg 29	40	16	8	-	**3600.32.29**	25
M40x1.5	Pg 36	50	18	8	-	**3600.40.36**	20
M50x1.5	Pg 42	60	19	10	-	**3600.50.42**	10
M50x1.5	Pg 48	64	20	10	-	**3600.50.48**	10

1 = Metric coarse-pitch thread

Adapter Nickel-Plated Brass

HEXAGONAL

Material:	Nickel-plated brass
O-ring:	NBR
Temperature range:	-40°C / +100°C
Protection class:	IP 68



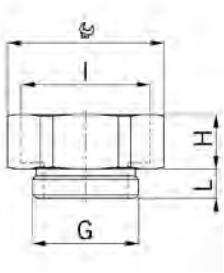
Outer thread PG / Inner thread metric / with O-ring

G	I	mm	H mm	L mm	i info	Part. no.	
PG 7	M 6x1.0	15	3.0	6	1	**3500.07.06**	50
PG 7	M 8x1.25	15	3.0	6	1	**3500.07.08**	50
PG 7	M10x1.5	15	7.0	6	1	**3500.07.10**	50
PG 9	M 6x1.0	18	3.0	6	1	**3500.09.06**	50
PG 9	M 8x1.25	18	3.0	6	1	**3500.09.08**	50
PG 9	M10x1.5	18	3.0	6	1	**3500.09.10**	50
PG 9	M12x1.5	18	8.0	6	-	**3500.09.12**	50
PG 11	M 6x1.0	21	3.0	6	1	**3500.11.06**	50
PG 11	M 8x1.25	21	3.0	6	1	**3500.11.08**	50
PG 11	M10x1.5	21	3.0	6	1	**3500.11.10**	50
PG 11	M12x1.5	21	3.0	6	-	**3500.11.12**	50
PG 11	M16x1.5	21	8.0	6	-	**3500.11.17**	50
PG 13	M12x1.5	24	3.0	6	-	**3500.13.12**	50
PG 13	M16x1.5	24	3.0	6	-	**3500.13.17**	50
PG 16	M12x1.5	24	3.0	6	-	**3500.16.12**	25
PG 16	M16x1.5	24	3.0	6	-	**3500.16.17**	25
PG 16	M20x1.5	24	10.5	6	-	**3500.16.20**	25
PG 21	M16x1.5	30	3.5	7.5	-	**3500.21.17**	25
PG 21	M20x1.5	30	3.5	7.5	-	**3500.21.20**	25
PG 21	M25x1.5	30	10.5	7.5	-	**3500.21.25**	25
PG 29	M25x1.5	38	4.0	8	-	**3500.29.25**	20
PG 29	M32x1.5	38	13.0	8	-	**3500.29.32**	20
PG 36	M32x1.5	50	4.5	8	-	**3500.36.32**	10
PG 36	M40x1.5	50	4.5	8	-	**3500.36.40**	10
PG 42	M32x1.5	55	5.0	10	-	**3500.42.32**	10
PG 42	M40x1.5	55	5.0	10	-	**3500.42.40**	10
PG 42	M50x1.5	55	15.0	10	-	**3500.42.50**	10
PG 48	M40x1.5	65	5.5	11	-	**3500.48.40**	5
PG 48	M50x1.5	65	5.5	11	-	**3500.48.50**	5

1 = Metric coarse-pitch thread

Adapter Nickel-Plated Brass

HEXAGONAL

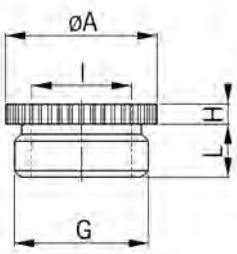


Material:	Nickel-plated brass
O-ring:	NBR
Temperature range:	-40°C / +100°C
Protection class:	IP 68

Outer thread Pg / Inner thread metric / with O-ring

G	I	mm	H mm	L mm	Part. no.	
Pg 7	M12x1.5	15	9.0	6	**3600.07.12**	50
Pg 7	M16x1.5	18	9.0	6	**3600.07.17**	50
Pg 9	M16x1.5	18	9.5	6	**3600.09.17**	50
Pg 9	M20x1.5	24	10.5	6	**3600.09.20**	50
Pg 11	M20x1.5	24	10.5	6	**3600.11.20**	50
Pg 11	M25x1.5	30	11.5	6	**3600.11.25**	25
Pg 13	M20x1.5	24	10.5	6	**3600.13.20**	50
Pg 13	M25x1.5	30	11.5	6	**3600.13.25**	25
Pg 16	M25x1.5	30	11.5	6	**3600.16.25**	25
Pg 16	M32x1.5	36	13.5	6	**3600.16.32**	25
Pg 21	M32x1.5	36	14.0	7.5	**3600.21.32**	25
Pg 21	M40x1.5	46	14.0	7.5	**3600.21.40**	20
Pg 29	M40x1.5	46	14.0	8	**3600.29.40**	20
Pg 29	M50x1.5	55	16.0	8	**3600.29.50**	10
Pg 36	M50x1.5	55	16.0	8	**3600.36.50**	10
Pg 36	M63x1.5	70	17.0	8	**3600.36.63**	10
Pg 42	M63x1.5	70	17.0	10	**3600.42.63**	10
Pg 42	M75x1.5	80	18.0	10	**3600.42.75**	10
Pg 48	M63x1.5	70	17.0	11	**3600.48.63**	10
Pg 48	M75x1.5	80	18.0	11	**3600.48.75**	10

ROUND, KNURLED



Material:	Nickel-plated brass
Temperature range:	-40°C / +200°C
Protection class:	IP 54
Protection type addition:	IP 68, if the entry thread is sealed

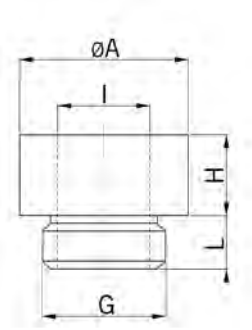
Outer thread Pg / Inner thread metric / without O-ring

G	I	øA mm	H mm	L mm	Part. no.	
Pg 11	M16x1.5	20	10	6	**3545.11.17**	50
Pg 16	M20x1.5	24	11	6	**3545.16.20**	50
Pg 21	M20x1.5	30	3.5	7.5	**3545.21.20**	50
Pg 21	M25x1.5	30	11	7.5	**3545.21.25**	50
Pg 29	M25x1.5	39	4	8	**3545.29.25**	25
Pg 29	M32x1.5	39	4	8	**3545.29.32**	25
Pg 36	M40x1.5	50	4.5	8	**3545.36.40**	10

Adapter Nickel-Plated Brass

round execution

Material: Nickel-plated brass
Temperature range: -40°C / +200°C
Protection class: IP 54
Protection type addition: IP 68, if the entry thread is sealed

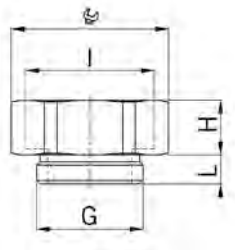


outer thread Pg / Inner thread metric / without O-Ring

G	I	øA mm	H mm	L mm	Part. no.	
Pg 7	M12x1.5	14	9	6	**3645.07.12**	100
Pg 9	M16x1.5	19	9.5	6	**3645.09.17**	50
Pg 11	M20x1.5	22	11	6	**3645.11.20**	50
Pg 13	M20x1.5	22	11	6	**3645.13.20**	50
Pg 16	M25x1.5	27	11	6	**3645.16.25**	50
Pg 21	M32x1.5	34	12	7.5	**3645.21.32**	50
Pg 29	M40x1.5	42	12	8	**3645.29.40**	10

hexagonal

Material: Nickel-plated brass
O-ring: NBR
Temperature range: -40°C / +100°C
Protection class: IP 68



outer thread Pg / Inner thread metric / with O-Ring

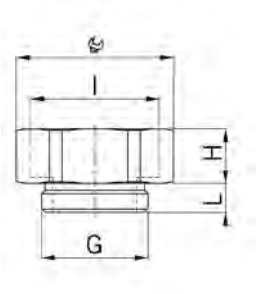
G	I	mm	H mm	L mm	Part. no.	
Pg 13	G3/8"	24	3	7	**35133/8G**	50
Pg 16	G1/2"	24	14	10	**36161/2G.08**	50
Pg 21	G3/4"	32	14	12	**36213/4G.08**	25
Pg 36	G 2"	64	20	12	**3636.48.08**	10
Pg 42	G 2"	64	20	15	**3642.48.08**	10

outer thread gas-pipe / Inner thread Pg / with O-ring

G	I	mm	H mm	L mm	Part. no.	
G3/8"	Pg 7	20	3	10	**353/8G.07**	50
G1/2"	Pg 9	24	3	9.5	**351/2G.09**	50
G3/4"	Pg 9	30	3.5	11	**353/4G.09**	50
G3/4"	Pg 11	30	3.5	11	**353/4G.11**	50
G3/4"	Pg 16	32	3.5	11	**353/4G.16**	50
G1"	Pg 21	38	3.5	11	**351G.21**	25
G1 1/4"	Pg 29	50	5	11	**3511/4G.29**	25
G2"	Pg 36	64	5	11	**352G.36**	10
G2"	Pg 42	64	5	11	**3548.42**	10

Adapter Nickel-Plated Brass

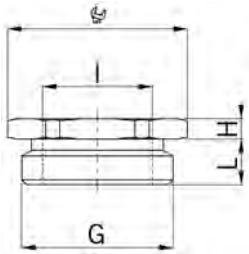
HEXAGONAL



Material:	Nickel-plated brass
O-ring:	NBR
Temperature range:	-40°C / +100°C
Protection class:	IP 68

Outer thread gas-pipe / Inner thread Pg / with O-ring

G	I	mm	H mm	L mm	Part. no.	
G3/8"	Pg 11	20	12	10	**363/8G.11.08**	50
G1/2"	Pg 11	24	12	10	**361/2G.11.08**	50
G1/2"	Pg 13	24	12	10	**361/2G.13.08**	50
G1/2"	Pg 16	24	12	10	**361/2G.16.08**	50
G5/8"	Pg 16	24	12	10	**365/8G.16.08**	50
G3/4"	Pg 21	32	15	12	**363/4G.21.08**	25
G7/8"	Pg 29	41	15	12	**367/8G.29.08**	25
G1"	Pg 29	41	15	11	**361G.29.08**	25
G1 1/2"	Pg 36	54	22	12	**3611/2G.36.08**	10



Material:	Nickel-plated brass
Temperature range:	-40°C / +100°C
Protection class:	IP 68, if the entry thread is sealed

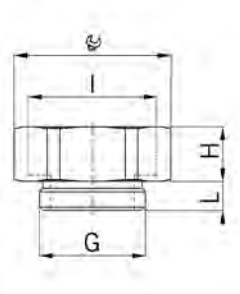
Outer thread NPT / Inner thread Pg / without O-Ring

G	I	mm	H mm	L mm	Part. no.	
NPT1/2"	Pg 9	22	4.5	20	**351/2NPT.09**	50
NPT3/4"	Pg 11	30	4	20	**353/4NPT.11**	10
NPT3/4"	Pg 13	30	4	20	**353/4NPT.13**	10
NPT 1"	Pg 16	36	6	26	**351NPT.16**	10

Adapter Nickel-Plated Brass

HEXAGONAL

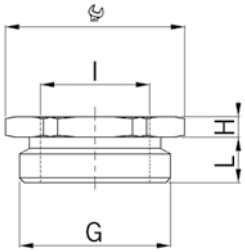
Material:	Nickel-plated brass
O-ring:	NBR
Temperature range:	-40°C / +100°C
Protection class:	IP 68, if the entry thread is sealed



outer thread NPT / Inner thread Pg / without O-Ring

G	I	mm	H mm	L mm	Part. no.	
NPT1/2"	Pg 11	24	12	20	**361/2NPT.11**	50
NPT1/2"	Pg 13	24	14	20	**361/2NPT.13**	50
NPT1/2"	Pg 16	34	20	20	**361/2NPT.16**	50
NPT3/4"	Pg 21	32	14	20	**363/4NPT.21**	25

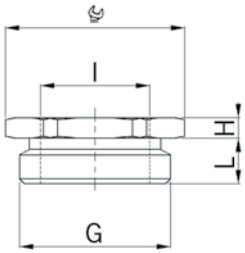
HEXAGONAL REDUCTION FITTINGS



MATERIAL: POLYAMIDE PA 6
TEMPERATURE RANGE: -30°C / +100°C
PROTECTION CLASS: IP 54
PROTECTION TYPE ADDITION: IP 68, IF THE ENTRY THREAD IS SEALED

OUTER THREAD METRIC / INNER THREAD METRIC / LIGHT GREY RAL 7035

G	I	mm	H mm	L mm	PART. NO.	
M16x1.5	M12x1.5	22	4	8	**3455.17.12**	100
M20x1.5	M12x1.5	24	4	8	**3455.20.12**	100
M20x1.5	M16x1.5	24	4	8	**3455.20.17**	100
M25x1.5	M12x1.5	29	6	8	**3455.25.12**	100
M25x1.5	M16x1.5	29	6	8	**3455.25.17**	100
M25x1.5	M20x1.5	29	6	8	**3455.25.20**	100
M32x1.5	M12x1.5	36	6	10	**3455.32.12**	50
M32x1.5	M16x1.5	36	6	10	**3455.32.17**	50
M32x1.5	M20x1.5	36	6	10	**3455.32.20**	50
M32x1.5	M25x1.5	36	6	10	**3455.32.25**	50
M40x1.5	M16x1.5	46	6	10	**3455.40.17**	50
M40x1.5	M20x1.5	46	6	10	**3455.40.20**	50
M40x1.5	M25x1.5	46	6	10	**3455.40.25**	25
M40x1.5	M32x1.5	46	6	10	**3455.40.32**	25
M50x1.5	M20x1.5	55	6	12	**3455.50.20**	5
M50x1.5	M25x1.5	55	6	12	**3455.50.25**	5
M50x1.5	M32x1.5	55	6	12	**3455.50.32**	5
M50x1.5	M40x1.5	55	6	12	**3455.50.40**	5
M63x1.5	M25x1.5	68	6	12	**3455.63.25**	5
M63x1.5	M32x1.5	68	6	12	**3455.63.32**	5
M63x1.5	M40x1.5	68	6	12	**3455.63.40**	5
M63x1.5	M50x1.5	68	6	12	**3455.63.50**	5

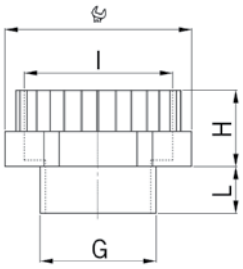


MATERIAL: POLYAMIDE GLASS FIBER REINFORCED
TEMPERATURE RANGE: -20°C / +100°C
PROTECTION CLASS: IP 54
PROTECTION TYPE ADDITION: IP 68, IF THE ENTRY THREAD IS SEALED

OUTER THREAD PG / INNER THREAD PG / LIGHT GREY

G	I	mm	H mm	L mm	PART. NO.	
PG 9	PG 7	19	12	8	**3409.07**	50
PG 11	PG 7	22	3	8	**3411.07**	50
PG 11	PG 9	22	15	8	**3411.09**	50
PG 13	PG 9	24	3	9	**3413.09**	50
PG 13	PG 11	24	15	9	**3413.11**	50
PG 16	PG 9	27	5	9	**3416.09**	50
PG 16	PG 11	27	5	9	**3416.11**	50
PG 16	PG 13	27	17	10	**3416.13**	50
PG 21	PG 13	32	5	11	**3421.13**	25
PG 21	PG 16	32	5	11	**3421.16**	25
PG 29	PG 21	41	6	12	**3429.21**	10
PG 36	PG 29	50	6	14	**3436.29**	10

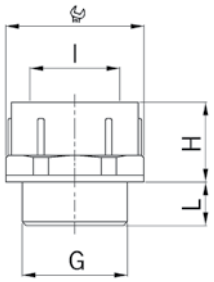
Material:	Polyamide PA 6
Temperature range:	-30°C / +100°C
Protection class:	IP 54
Protection type addition:	IP 68, if the entry thread is sealed



Outer thread metric / Inner thread metric / Light grey RAL 7035

G	I	mm	H mm	L mm	Part. no.	
M12x1.5	M16x1.5	20	13	8	**3755.12.17**	100
M16x1.5	M20x1.5	24	13	8	**3755.17.20**	100
M20x1.5	M25x1.5	29	13	8	**3755.20.25**	100
M25x1.5	M32x1.5	36	15	8	**3755.25.32**	50
M32x1.5	M40x1.5	46	15	10	**3755.32.40**	25
M40x1.5	M50x1.5	55	15	10	**3755.40.50**	10
M50x1.5	M63x1.5	68	15	10	**3755.50.63**	10

Material:	Polyamide glass fiber reinforced
Temperature range:	-20°C / +100°C
Protection class:	IP 54, IP 68 if the thread is sealed

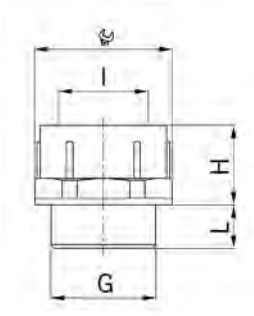


Outer thread Pg / Inner thread Pg / Light grey

G	I	mm	H mm	L mm	Part. no.	
Pg 7	Pg 9	19	18	7	**3707.09**	50
Pg 9	Pg 11	22	19	7	**3709.11**	50
Pg 11	Pg 13	24	21	8	**3711.13**	50
Pg 13	Pg 16	27	23	9	**3713.16**	50
Pg 16	Pg 21	32	26	9	**3716.21**	25
Pg 21	Pg 29	41	33	10	**3721.29**	25
Pg 29	Pg 36	55	39	12	**3729.36**	10
Pg 36	Pg 42	60	46	14	**3736.42**	10
Pg 42	Pg 48	65	39	16	**3742.48**	10

Synthetic Adapter

round with hexagon



Material:	Polyamide glass fiber reinforced
Temperature range:	-20°C / +100°C
Protection class:	IP 54
Protection type addition:	IP 68, if the entry thread is sealed

Outer thread metric / Inner thread Pg / Light grey

G	I	mm	H mm	L mm	Part. no.	
M12x1.5	Pg 9	19	13	11	**3712.09**	50
M20x1.5	Pg 13	24	15	11	**3720.13**	50
M20x1.5	Pg 16	27	17	11	**3720.16**	50
M25x1.5	Pg 21	33	20	11	**3725.21**	25
M32x1.5	Pg 29	42	22	11	**3732.29**	25
M50x1.5	Pg 42	60	28	11	**3750.42**	10

hexagonal

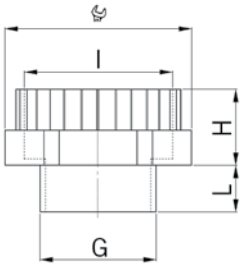
Outer thread metric / Inner thread Pg / Light grey

G	I	mm	H mm	L mm	Part. no.	
M16x1.5	Pg 9	19	14	11	**3417.09**	50
M20x1.5	Pg 11	22	16	11	**3420.11**	50
M25x1.5	Pg 16	27	18	11	**3425.16**	50
M40x1.5	Pg 29	42	23	11	**3440.29**	25
M50x1.5	Pg 36	53	26	11	**3450.36**	10
M63x1.5	Pg 48	65	29	11	**3463.48**	5

Synthetic Adapter

round with hexagon

Material:	Polyamide PA 6
Temperature range:	-30°C / +100°C
Protection class:	IP 54
Protection type addition:	IP 68, if the entry thread is sealed



Outer thread Pg / Inner thread metric / Light grey RAL 7035

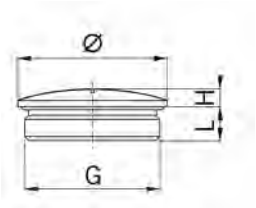
G	I	mm	H mm	L mm	Part. no.	
Pg 7	M12x1.5	15	12	8	**3755.07.12**	100
Pg 7	M16x1.5	20	12	8	**3755.07.17**	100
Pg 9	M16x1.5	20	12	8	**3755.09.17**	100
Pg 9	M20x1.5	24	12	8	**3755.09.20**	100
Pg 11	M20x1.5	24	12	8	**3755.11.20**	100
Pg 13	M25x1.5	30	13	9	**3755.13.25**	100
Pg 16	M25x1.5	30	13	10	**3755.16.25**	50
Pg 21	M32x1.5	37	14	11	**3755.21.32**	50
Pg 29	M40x1.5	45	14	11	**3755.29.40**	50
Pg 42	M50x1.5	55	17	11	**3755.42.50**	10
Pg 48	M63x1.5	68	17	11	**3755.48.63**	5

Outer thread Pg / Inner thread metric / Light grey RAL 7035

G	I	mm	H mm	L mm	Part. no.	
Pg 9	M12x1.5	19	12	8	**3455.09.12**	100
Pg 11	M16x1.5	22	12	8	**3455.11.17**	100
Pg 13	M16x1.5	24	13	9	**3455.13.17**	100
Pg 13	M20x1.5	24	13	9	**3455.13.20**	100
Pg 16	M20x1.5	27	13	10	**3455.16.20**	50
Pg 21	M25x1.5	33	14	11	**3455.21.25**	50
Pg 29	M32x1.5	42	14	11	**3455.29.32**	50
Pg 36	M40x1.5	55	14	11	**3455.36.40**	25

Locking Plugs Nickel-Plated Brass

Short entry thread metric



Material:	Nickel-plated brass
O-ring:	NBR
Temperature range:	-40°C / +100°C
Protection class:	IP 68

Round execution / with O-ring

G	Ø mm	H mm	L mm	i info	Part. no.	
M6x1.0	9	3	5	1	**8706.08**	50
M8x1.25	10	3	5	1	**8708.08**	50
M10x1.5	12	3	5	1	**8710.08**	50
M12x1.5	14	3	5	-	**8712.08**	50
M16x1.5	19	3	5	-	**8717.08**	50
M20x1.5	24	3	6	-	**8720.08**	25
M25x1.5	28	4	7	-	**8725.08**	25
M32x1.5	35	4	8	-	**8732.08**	10
M40x1.5	45	6	8	-	**8740.08**	10
M50x1.5	55	6	9	-	**8750.08**	10
M63x1.5	70	6	10	-	**8763.08**	10
M75x1.5	80	6	11	-	**8775.08**	5

1 = Metric coarse-pitch thread

Long entry thread metric

Round execution / with O-ring

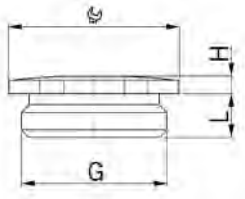
G	Ø mm	H mm	L mm	i info	Part. no.	
M6x1.0	9	3	8	1	**8706.11.08**	50
M8x1.25	10	3	10	1	**8708.11.08**	50
M10x1.5	12	3	10	1	**8710.11.08**	50
M12x1.5	14	3	10	-	**8712.11.08**	50
M16x1.5	19	3	10	-	**8717.11.08**	50
M20x1.5	24	3	10	-	**8720.11.08**	25
M25x1.5	28	4	11	-	**8725.11.08**	25
M32x1.5	35	4	13	-	**8732.11.08**	10
M40x1.5	45	6	13	-	**8740.11.08**	10
M50x1.5	55	6	14	-	**8750.11.08**	10
M63x1.5	70	6	15	-	**8763.11.08**	10
M75x1.5	80	6	15	-	**8775.11.08**	5

1 = Metric coarse-pitch thread

Locking Plugs Nickel-Plated Brass

Short entry thread metric

Material: Nickel-plated brass
Temperature range: -40°C / +200°C
Protection class: IP 54
Protection type addition: IP 68, if the entry thread is sealed

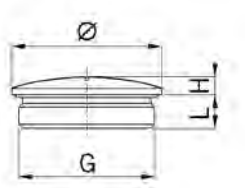


Hexagonal design / without O-Ring

G	mm	H mm	L mm	Part. no.	
M12x1.5	14	2.5	5	**8745.12**	100
M16x1.5	18	2.5	5	**8745.17**	100
M20x1.5	22	2.5	6	**8745.20**	100
M25x1.5	27	3.0	7	**8745.25**	50
M32x1.5	34	3.5	8	**8745.32**	25
M40x1.5	42	4.0	8	**8745.40**	25
M50x1.5	52	4.0	9	**8745.50**	10
M63x1.5	65	4.0	10	**8745.63**	10

Short entry thread PG

Material: Nickel-plated brass
O-ring: NBR
Temperature range: -40°C / +100°C
Protection class: IP 68



Round execution / with O-Ring

G	Ø mm	H mm	L mm	Part. no.	
Pg 7	14	3	5	**8707.08**	100
Pg 9	17	3	6	**8709.08**	100
Pg 11	20	3	6	**8711.08**	100
Pg 13	22	3	6.5	**8713.08**	50
Pg 16	24	3	6.5	**8716.08**	50
Pg 21	30	4	7	**8721.08**	10
Pg 29	39	4	8	**8729.08**	10
Pg 36	50	6	9	**8736.08**	10
Pg 42	60	6	10	**8742.08**	10
Pg 48	65	6	10	**8748.48.08**	10
G 2“	65	6	10	**8748.08**	10

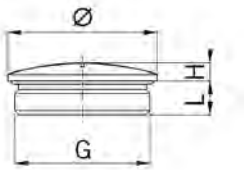
Long entry thread PG

Round execution / with O-Ring

G	Ø mm	H mm	L mm	Part. no.	
Pg 7	14	3	10	**8707.11.08**	100
Pg 9	17	3	10	**8709.11.08**	100
Pg 11	20	3	10	**8711.11.08**	100
Pg 13	22	3	10	**8713.11.08**	50
Pg 16	24	3	10	**8716.11.08**	50
Pg 21	30	4	12	**8721.11.08**	10
Pg 29	39	4	12	**8729.11.08**	10
Pg 36	50	6	15	**8736.11.08**	10
G 2“	65	6	15	**8748.11.08**	10

Locking Plugs Stainless Steel A2

ROUND EXECUTION



Material:	CrNi stainless steel A2 (DIN EN 1.4305 / AISI 303)
O-ring :	NBR
Temperature range:	-40°C / +100°C
Protection class:	IP 68

Short entry thread metric / with O-ring

G	Ø mm	H mm	L mm	i info	Part. no.	
M10x1.5	12	3	5	1	**8710.96.08.70**	50
M12x1.5	14	3	5	-	**8712.96.08.70**	50
M16x1.5	19	3	5	-	**8717.96.08.70**	50
M20x1.5	24	3	6	-	**8720.96.08.70**	25
M25x1.5	28	4	7	-	**8725.96.08.70**	25
M32x1.5	35	4	8	-	**8732.96.08.70**	10
M40x1.5	45	6	8	-	**8740.96.08.70**	10
M50x1.5	55	6	9	-	**8750.96.08.70**	10
M63x1.5	70	6	10	-	**8763.96.08.70**	10
M75x1.5	80	6	11	-	**8775.96.08.70**	5

1 = Metric coarse-pitch thread

Available on request:

Entry thread Pg

Long entry thread metric / with O-ring

G	Ø mm	H mm	L mm	i info	Part. no.	
M10x1.5	12	3	10	1	**8710.96.11.08.70**	50
M12x1.5	14	3	10	-	**8712.96.11.08.70**	50
M16x1.5	19	3	10	-	**8717.96.11.08.70**	50
M20x1.5	24	3	10	-	**8720.96.11.08.70**	25
M25x1.5	28	4	11	-	**8725.96.11.08.70**	25
M32x1.5	35	4	13	-	**8732.96.11.08.70**	10
M40x1.5	45	6	13	-	**8740.96.11.08.70**	10
M50x1.5	55	6	14	-	**8750.96.11.08.70**	10
M63x1.5	70	6	15	-	**8763.96.11.08.70**	10
M75x1.5	80	6	15	-	**8775.96.11.08.70**	5

1 = Metric coarse-pitch thread

Available on request:

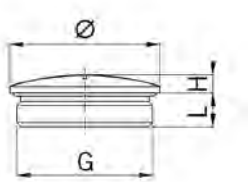
Entry thread Pg

Locking Plugs Stainless Steel A2

for High Temperature Applications

round execution

Material:	CrNi stainless steel A2 (DIN EN 1.4305 / AISI 303)
O-ring:	FPM
Temperature range:	-40°C / +200°C
Protection class:	IP 68



Short entry thread metric / with O-ring

G	Ø mm	H mm	L mm	i info	Part. no.	
M10x1.5	12	3	5	1	**8710.96.08**	50
M12x1.5	14	3	5	-	**8712.96.08**	50
M16x1.5	19	3	5	-	**8717.96.08**	50
M20x1.5	24	3	6	-	**8720.96.08**	25
M25x1.5	28	4	7	-	**8725.96.08**	25
M32x1.5	35	4	8	-	**8732.96.08**	10
M40x1.5	45	6	8	-	**8740.96.08**	10
M50x1.5	55	6	9	-	**8750.96.08**	10
M63x1.5	70	6	10	-	**8763.96.08**	10
M75x1.5	80	6	11	-	**8775.96.08**	5

1 = Metric coarse-pitch thread

Available on request:

Entry thread Pg

Long entry thread metric / with O-ring

G	Ø mm	H mm	L mm	i info	Part. no.	
M10x1.5	12	3	10	1	**8710.96.11.08**	50
M12x1.5	14	3	10	-	**8712.96.11.08**	50
M16x1.5	19	3	10	-	**8717.96.11.08**	50
M20x1.5	24	3	10	-	**8720.96.11.08**	25
M25x1.5	28	4	11	-	**8725.96.11.08**	25
M32x1.5	35	4	13	-	**8732.96.11.08**	10
M40x1.5	45	6	13	-	**8740.96.11.08**	10
M50x1.5	55	6	14	-	**8750.96.11.08**	10
M63x1.5	70	6	15	-	**8763.96.11.08**	10
M75x1.5	80	6	15	-	**8775.96.11.08**	5

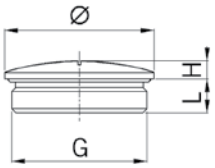
1 = Metric coarse-pitch thread

Available on request:

Entry thread Pg

Synthetic Locking Plugs

Metric thread



Material:	Polyamide PA 6
Temperature range:	-30°C / +100°C
Protection class:	IP 54
Protection type addition:	IP 68, if the entry thread is sealed

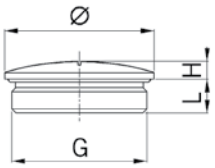
Light grey RAL 7035 / without O-Ring

G	Ø mm	H mm	L mm	Part. no.	
M12x1.5	15	4.5	6	**8855.12**	100
M16x1.5	20	4.5	6	**8855.17**	100
M20x1.5	24	4.5	6	**8855.20**	100
M25x1.5	30	5.0	8	**8855.25**	100
M32x1.5	37	5.5	8	**8855.32**	50
M40x1.5	46	6.0	8	**8855.40**	50
M50x1.5	56	6.0	10	**8855.50**	10
M63x1.5	70	6.0	12	**8855.63**	10

Black RAL 9005 / without O-Ring

G	Ø mm	H mm	L mm	Part. no.	
M12x1.5	15	4.5	6	**8845.12**	100
M16x1.5	20	4.5	6	**8845.17**	100
M20x1.5	24	4.5	6	**8845.20**	100
M25x1.5	30	5.0	8	**8845.25**	100
M32x1.5	37	5.5	8	**8845.32**	50
M40x1.5	46	6.0	8	**8845.40**	50
M50x1.5	56	6.0	10	**8845.50**	10
M63x1.5	70	6.0	12	**8845.63**	10

Entry thread PG



Material:	Shock-resistant polystyrene
Temperature range:	-20°C / +80°C
Protection class:	IP 54, IP 68 if the thread is sealed

Light grey RAL 7035 / without O-Ring

G	Ø mm	H mm	L mm	Part. no.	
Pg 7	15	2.0	6.0	**8807**	100
Pg 9	19	3.0	6.5	**8809**	100
Pg 11	22	3.5	6.5	**8811**	100
Pg 13	25	3.5	6.5	**8813**	100
Pg 16	27	3.5	6.5	**8816**	100
Pg 21	33	4.0	8.0	**8821**	100
Pg 29	44	4.0	8.0	**8829**	50
Pg 36	55	4.0	10.0	**8836**	25
Pg 42	62	4.0	10.0	**8842**	10
Pg 48	69	4.0	12.0	**8848.48**	25

Solid Rubber Sealing Inserts

Suitable for Cable Glands Progress®

Material: NBR

Temperature range: -40°C / +100°C

Short sealing insert without drilled hole

G	∅ mm	Part. no.	
M6	3.5	1000.06.30.03	1
M8	5.0	1000.08.30.03	1
M10	6.0	1000.10.30.03	1
Pg 11	12.0	1000.11.30.03	1
M12 / Pg 7	8.0	1000.12.30.03	1
M16 / Pg 9	10.5	1000.17.30.03	1
M20 / Pg 13 / Pg 16	15.0	1000.20.30.03	1
M25 / Pg 21	20.5	1000.25.30.03	1
Pg 29	27.5	1000.29.30.03	1
M32	25.5	1000.32.30.03	1
Pg 36	35.0	1000.36.30.03	1
M40	33.0	1000.40.30.03	1
Pg 48	49.0	1000.48.30.03	1
M50 / Pg 42	42.0	1000.50.30.03	1
M63	52.0	1000.63.30.03	1
M75	63.0	1000.75.30.03	1
M85	70.0	1000.085.30.03	1
M95	80.0	1000.095.30.03	1
M100	85.0	1000.100.30.03	1
M105	90.0	1000.105.30.03	1
M115	95.0	1000.115.30.03	1

Technical note

When frozen to at least -25°C, the solid sealing inserts are easy to drill.

for high-temperature applications

Material: FPM

Temperature range: -40°C / +200°C

Short sealing insert without drilled hole

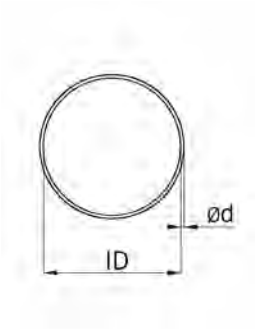
G	∅ mm	Part. no.	
M6	3.5	1000.06.98.30.03	1
M8	5.0	1000.08.98.30.03	1
M10	6.0	1000.10.98.30.03	1
Pg 11	12.0	1000.11.98.30.03	1
M12 / Pg 7	8.0	1000.12.98.30.03	1
M16 / Pg 9	10.5	1000.17.98.30.03	1
M20 / Pg 16	15.0	1000.20.98.30.03	1
M25 / Pg 21	20.5	1000.25.98.30.03	1
Pg 29	27.5	1000.29.98.30.03	1
M32	25.5	1000.32.98.30.03	1
Pg 36	35.0	1000.36.98.30.03	1
M40 / Pg 29	33.0	1000.40.98.30.03	1
Pg 48	49.0	1000.48.98.30.03	1
M50 / Pg 42	42.0	1000.50.98.30.03	1
M63	52.0	1000.63.98.30.03	1

Technical note

When frozen to at least -25°C, the solid sealing inserts are easy to drill.

Suitable for Cable Glands Progress®

O-rings



Material: NBR

Temperature range: -40°C / +100°C

Suitable for entry thread metric or Pg

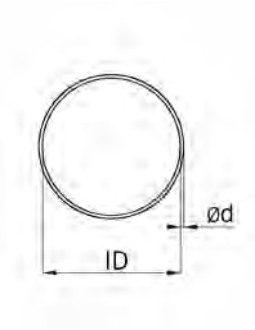
G	G	øI mm	ød mm	Part. no.	
M 6	-	5.0	1.0	**1005.00.08**	1
M 8	-	6.0	1.5	**1006.00.08**	1
M10	-	8.1	1.6	**1006.06.08**	1
M12	Pg 7	10.0	1.5	**1007.00.08**	1
M16	Pg 9	13.1	1.6	**1000.09.00.08**	1
M20	-	17.0	2.0	**2111.00.08**	1
M25	-	22.0	2.0	**1013.00.22.08**	1
M32	-	30.0	2.0	**1021.00.30.08**	1
M40	-	36.0	2.0	**1000.40.00.08**	1
M50	-	46.0	2.0	**1000.50.00.08**	1
M63	-	60.0	2.0	**1000.63.00.08**	1
M75	-	72.0	2.0	**1000.75.00.08**	1
-	Pg 11	15.0	2.0	**1011.00.08**	1
Pg 13	Pg 16	19.0	2.0	**1016.00.08**	1
-	Pg 21	25.0	2.0	**1016.00.25.08**	1
-	Pg 29	33.0	2.2	**1029.00.08**	1
-	Pg 36	42.5	2.6	**1036.00.08**	1
-	Pg 42	48.0	3.0	**1000.42.00.08**	1
-	Pg 48	55.0	2.0	**1000.48.00.08**	1

Suitable for Cable Glands Progress®

O-rings for high temperatures

Material: FPM

Temperature range: -40°C / +200°C

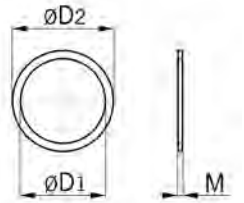


Suitable for entry thread metric or Pg

G	G	øl mm	ød mm	Part. no.	
M 6	-	5.0	1.0	**1105.98.08**	1
M 8	-	6.0	1.5	**1106.98.08**	1
M10	-	8.1	1.6	**1106.06.98.08**	1
M12	Pg 7	10.0	1.5	**1107.98.08**	1
M16	Pg 9	13.1	1.6	**1100.09.98.08**	1
M20	-	17.0	2.0	**2111.98.08**	1
M25	-	22.0	2.0	**1113.98.22.08**	1
M32	-	30.0	2.0	**1121.98.30.08**	1
M40	-	36.0	2.0	**1100.40.98.08**	1
M50	-	46.0	2.0	**1100.50.98.08**	1
M63	-	60.0	2.0	**1100.63.98.08**	1
M75	-	72.0	2.0	**1100.75.98.08**	1
-	Pg 11	15.0	2.0	**1111.98.08**	1
Pg 16	Pg 13	18.0	2.0	**1116.98.08**	1
-	Pg 21	25.0	2.0	**1116.98.25.08**	1
-	Pg 29	33.0	1.8	**1129.98.08**	1
-	Pg 36	42.5	2.6	**1136.98.08**	1
-	Pg 42	48.0	3.0	**1100.42.98.08**	1
-	Pg 48	55.0	2.0	**1100.48.98.08**	1

Suitable for Cable Glands Progress®

sealing washers



Material:	KlingerSIL C-4300
Temperature range:	-40°C / +300°C
Color:	Green

Suitable for metric entry thread

G	øD1 mm	øD2 mm	M mm	Part. no.	
M6	10.0	6.0	1.5	**1006.00.16**	1
M8	12.0	8.0	1.5	**1008.00.16**	1
M10	14.0	10.0	1.5	**1010.00.16**	1
M12	16.0	12.0	1.5	**1012.00.16**	1
M16	21.0	16.0	1.5	**1017.00.16**	1
M20 / Pg 13	25.0	20.5	1.5	**1013.00.16**	1
M25	31.0	25.0	2.0	**1025.00.16**	1
M32	39.0	32.0	2.0	**1032.00.16**	1
M40	48.0	40.0	2.0	**1040.00.16**	1
M50	59.0	50.0	2.0	**1050.00.16**	1
M63	73.0	63.0	2.0	**1063.00.16**	1

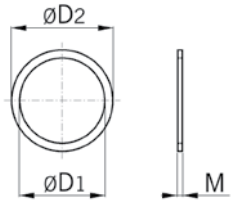
Suitable for entry thread Pg

G	øD1 mm	øD2 mm	M mm	Part. no.	
Pg 7	16.5	12.5	1.5	**1007.00.16**	1
Pg 9	19.0	15.2	1.5	**1009.00.16**	1
Pg 11	22.5	18.5	1.5	**1011.00.16**	1
M20 / Pg 13	25.0	20.5	1.5	**1013.00.16**	1
Pg 16	27.0	22.5	1.5	**1016.00.16**	1
Pg 21	33.5	28.5	2.0	**1021.00.16**	1
Pg 29	43.5	37.0	2.0	**1029.00.16**	1
Pg 36	55.0	47.0	2.0	**1036.00.16**	1
Pg 42	63.0	54.0	2.0	**1042.00.16**	1
Pg 48	69.0	59.3	2.0	**1048.00.16**	1

Suitable for Cable Glands Syntec®

sealing washers

Material: Perbunan
Temperature range: -20°C / +100°C



Suitable for metric entry thread

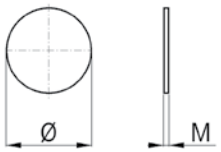
G	øD1 mm	øD2 mm	M mm	Part. no.	
M12	20	12	1.6	1012.45.16	50
M16	23	16	1.8	1017.45.16	50
M20	29	20	1.8	1020.45.16	50
M25	37	25	1.8	1025.45.16	50
M32	44	32	2.2	1032.45.16	25
M40	52	40	2.2	1040.45.16	25
M50	64	50	2.7	1050.45.16	25
M63	68	63	3.2	1063.45.16	10

Suitable for entry thread Pg

G	øD1 mm	øD2 mm	M mm	Part. no.	
Pg 7	16.0	11.5	2.0	1007.45.16	50
Pg 9	19.0	14.0	2.0	1009.45.16	50
Pg 11	22.5	18.5	2.0	1011.45.16	50
Pg 13	25.0	19.0	2.0	1013.45.16	50
Pg 16	27.0	21.0	2.0	1016.45.16	50
Pg 21	34.0	27.0	2.5	1021.45.16	25
Pg 29	43.0	35.0	2.5	1029.45.16	25
Pg 36	54.0	45.0	2.5	1036.45.16	25

blind discs suitable for cable glands

Material: Polyamide
Temperature range: -20°C / +100°C
Application: Dust stopper for cable glands



Blind disc for dust protection

G	ø mm	M mm	Part. no.	
M10 / M12 / Pg 7	10.5	0.3	1012.00.19	50
M16 / Pg 9	13.5	0.3	1017.00.19	50
M20 / Pg 11	16.5	0.3	1011.00.19	50
Pg 13 / Pg 16	20.5	0.3	1020.00.19	50
M25 / Pg 21	26.5	0.3	1025.00.19	50
Pg 29	35.0	0.3	1029.00.19	50
M32	30.0	0.3	1032.00.19	50
Pg 36	45.0	0.3	1036.00.19	50
M40	38.0	0.3	1040.00.19	50
M50 / Pg 42	52.0	0.3	1050.00.19	50
M63 / Pg 48	57.0	0.3	1063.00.19	50

Cross Reference

Heyco - Agro

Heyco - PG Thread Type / Agro - PG Thread Type

Thread Type	Heyco Black	Heyco Grey	Diameter Range (mm)	Diameter Range (mm)	Agro Black	Agro Grey
PG7	3207	3208	2.3 - 6.4	2.5 - 6.5	1545.07.06	1555.07.06
PG7	3444	3445	2.0 - 4.	2.5 - 6.5	1545.07.06	1555.07.06
PG9	3210	3211	4.7 - 7.6	3.0 - 8.0	1545.09.08	1555.09.08
PG9	3446	3447	3.0 - 5.8	3.0 - 8.0	1545.09.08	1555.09.08
PG11	3213	3214	5.9 - 10.0	4.0 - 10.0	1545.11.10	1555.11.10
PG11	3448	3449	3.8 - 7.0	2.0 - 7.0	1545.11.07	1555.11.07
PG13	3216	3217	6.9 - 11.9	5.5- 12.0	1545.13.12	1555.13.12
PG13	3450	3451	5.0 - 8.8	3.0 - 7.0	1545.13.07	1555.13.07
PG16	3219	3220	10.9 - 13.9	8.5 - 14.0	1545.16.14	1555.16.14
PG16	3452	3453	8.1 - 11.9	5.0 - 11.0	1545.16.11	1555.16.11
PG21	3222	3223	13.8 - 18.0	11.0 - 18.0	1545.21.18	1555.21.18
PG21	3454	3455	11.6 - 16.0	6.5 - 14.0	1545.21.14	1555.21.14
PG29	3225	3226	18.3 - 24.5	17.0 - 25.0	1545.29.25	1555.29.25
PG29	3456	3457	16.3 - 19.6	17.0 - 25.0	1545.29.25	1555.29.25
PG36	3204	N/A	22.0 - 32.0	22.0 - 33.0	1545.36.33	1555.36.33
PG36	3206	N/A	20.0 - 26.0	22.0 - 33.0	1545.36.33	1555.36.33
PG42	3212	N/A	32.0 - 38.0	28.0 - 38.0	1545.42.38	1545.42.38
PG42	3218	N/A	25.0 - 31.0	28.0 - 38.0	1545.42.38	1545.42.38
PG48	3281	N/A	37.0 - 44.0	32.0 - 44.0	1545.48.44	1545.48.44
PG48	3283	N/A	29.0 - 35.0	32.0 - 44.0	1545.48.44	1545.48.44

Heyco - NPT Thread Type / Agro - NPT Thread Type

Thread Type	Heyco Black	Heyco Grey	Diameter Range (mm)	Diameter Range (mm)	Agro Black	Agro Grey
NPT 3/8	3228	3229	4.7 - 7.9	3.0 - 8.0	1545.N0375.08	1555.N0375.08
NPT 3/8	3458	3459	2.0 - 6.0	3.0 - 8.0	1545.N0375.08	1555.N0375.08
NPT 1/2	3231	3232	6.9 - 11.8	5.5 - 12.0	1545.N0500.12	1555.N0500.12
NPT 1/2	3224	3236	5.0 - 8.8	3.0 - 7.0	1545.N0500.07	1555.N0500.07
NPT 3/4	3234	3235	13.8 - 18.0	11.0 - 18.0	1545.N0750.18	1555.N0750.18
NPT 3/4	3460	3461	11.5 - 16.0	6.5 - 14.0	1545.N0750.14	1555.N0750.14
NPT 1	8437	8438	18.0 - 25.4	17.0 - 22.0	1545.N1000.22	1555.N1000.22
NPT 1	8439	8440	12.0 - 19.5	17.0 - 22.0	1545.N1000.22	1555.N1000.22

Heyco - Strain Relief / Agro - Strain Relief

Thread Type	Heyco Black	Heyco Grey	Diameter Range (mm)	Diameter Range (mm)	Agro Grey	Agro Black
PG7	3237	3228	2.3 - 6.4	2.5 - 6.5	1576.07.06	1546.07.06
PG7	3464	3464	2.0 - 4.6	2.5 - 6.5	1576.07.06	1546.07.06
PG9	3240	3241	4.7 - 7.6	3.0 - 8.0	1576.09.08	1546.09.08
PG9	3466	3467	3.0 - 5.8	3.0 - 8.0	1576.09.08	1546.09.08
PG11	3243	3244	5.9 - 10.0	4.0 - 10.0	1576.11.10	1546.11.10
PG11	3468	3469	3.8 - 7.0	2.0 - 7.0	1576.11.07	1546.11.07
PG13	3246	3247	6.9 - 11.9	5.5 - 12.0	1576.13.12	1546.13.12
PG13	3470	3471	5.0 - 8.8	3.0 - 7.0	1576.13.07	1546.13.07
PG16	3249	3250	10.9 - 13.9	8.5 - 14.0	1576.16.14	1546.16.14
PG16	3472	3473	8.1 - 11.9	5.0 - 11.0	1576.16.11	1546.16.11

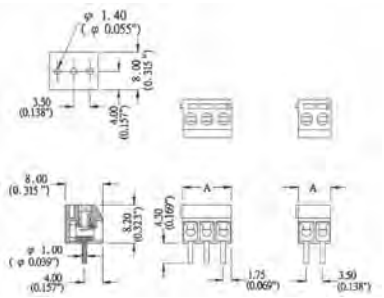
Olflex - PG Thread Type				Agro - PG Thread Type		
Thread Type	Olflex Black	Olflex Grey	Diameter Range (mm)	Diameter Range (mm)	Agro Black	Agro Grey
PG7	S2207	S1207	2.0 - 5.0	2.5 - 6.5	1545.07.06	1555.07.06
PG7	S2107	S1107	3.0 - 6.5	2.5 - 6.5	1545.07.06	1555.07.06
PG9	S2209	S1209	2.0 - 6.0	3.0 - 8.0	1545.09.08	1555.09.08
PG9	S2109	S1109	4.0 - 8.0	3.0 - 8.0	1545.09.08	1555.09.08
PG11	S2211	S1211	4.0 - 7.0	2.0 - 7.0	1545.11.07	1555.11.07
PG11	S2111	S1111	5.1 - 10.0	4.0 - 10.0	1545.11.10	1555.11.10
PG13	S2213	S1213	8.7 - 9.0	3.0 - 7.0	1545.13.07	1555.13.07
PG13	S2113	S1113	6.0 - 12.0	5.5 - 12.0	1545.13.12	1555.13.12
PG16	S2216	S1216	10.7 - 12.2	5.0 - 11.0	1545.16.11	1555.16.11
PG16	S2116	S1116	10.0 - 14.0	8.5 - 14.0	1545.16.14	1555.16.14
PG21	S2221	S1221	12.2 - 15.7	6.5 - 14.0	1545.21.14	1555.21.14
PG21	S2121	S1121	13.8 - 18.0	11.0 - 18.0	1545.21.18	1555.21.18
PG29	S2229	S1229	13.0 - 20.0	17.0 - 25.0	1545.29.25	1555.29.25
PG29	S2129	S1129	18.0 - 25.0	17.0 - 25.0	1545.29.25	1555.29.25
PG36	S2236	S1236	20.0 - 26.0	22.0 - 33.0	1545.36.33	1555.36.33
PG36	S2136	S1136	22.0 - 32.0	22.0 - 33.0	1545.36.33	1555.36.33
PG42	S2242	S1242	25.0 - 31.0	28.0 - 38.0	1545.42.38	1555.42.38
PG42	S2142	S1142	32.0 - 38.0	28.0 - 38.0	1545.42.38	1555.42.38
PG48	S2248	S1248	29.0 - 35.0	32.0 - 44.0	1545.48.44	1555.48.44
PG48	S2148	S1148	37.0 - 44.0	32.0 - 44.0	1545.48.44	1555.48.44

Olflex - NPT Thread Type				Agro - NPT Thread Type		
Thread Type	Olflex Black	Olflex Grey	Diameter Range (mm)	Diameter Range (mm)	Agro Black	Agro Grey
NPT 3/8	S2238	S1238	2.0 - 6.0	3.0 - 8.0	1545.N0375.08	1555.N0375.08
NPT 3/8	S2138	S1138	4.0 - 8.0	3.0 - 8.0	1545.N0375.08	1555.N0375.08
NPT 1/2	S2212	S1212	8.7 - 9.0	3.0 - 7.0	1545.N0500.07	1555.N0500.07
NPT 1/2	S2112	S1112	6.0 - 12.0	5.5 - 12.0	1545.N0500.12	1555.N0500.12
NPT 3/4	S2234	S1234	12.2 - 15.7	6.5 - 14.0	1545.N0750.14	1555.N0750.14
NPT 3/4	S2134	S1134	13.8 - 18.0	11.0 - 18.0	1545.N0750.18	1555.N0750.18
NPT 1	S2201	S1201	14.0 - 21.0	17.0 - 22.0	1545.N1000.22	1555.N1000.22
NPT 1	S2101	S1101	18.0 - 26.0	17.0 - 22.0	1545.N1000.22	1555.N1000.22

Olflex - Strain Relief				Agro - Strain Relief		
Thread Type	Olflex Black	Olflex Grey	Diameter Range (mm)	Diameter Range (mm)	Agro Grey	Agro Black
PG7	S2407	S1407	2.0 - 5.0	2.5 - 6.5	1576.07.06	1546.07.06
PG7	S2307	S1307	3.0 - 6.5	2.5 - 6.5	1576.07.06	1546.07.06
PG9	S2409	S1409	2.0 - 6.0	3.0 - 8.0	1576.09.08	1546.09.08
PG9	S2309	S1309	4.0 - 8.0	3.0 - 8.0	1576.09.08	1546.09.08
PG11	S2411	S1411	4.0 - 7.0	2.0 - 7.0	1576.11.07	1546.11.07
PG11	S2311	S1311	5.1 - 10.0	4.0 - 10.0	1576.11.10	1546.11.10
PG13	S2413	S1413	8.7 - 9.0	3.0 - 7.0	1576.13.07	1546.13.07
PG13	S2313	S1313	6.0 - 12.0	5.5 - 12.0	1576.13.12	1546.13.12
PG16	S2416	S1416	10.7 - 12.2	5.0 - 11.0	1576.16.11	1546.16.11
PG16	S2316	S1316	10.0 - 14.0	8.5 - 14.0	1576.16.14	1546.16.14

Printed Circuit Board Terminal Blocks & Connectors

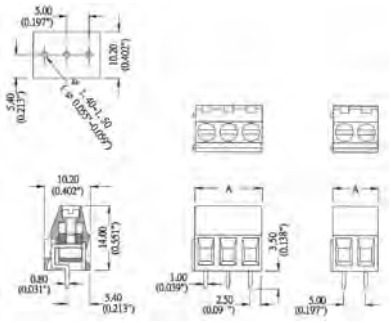
AEI offers single and dual level terminal blocks for printed circuit boards on 3.5mm, 5.0mm, .08mm, 7.5mm and 7.62mm in modular 2 or 3 pole designs. Connectors are offered from 3.50mm, 3.81mm, 5.00mm and 5.08mm versions in 90° and 180° configuration up to 24 poles.



Single Level • 90° • Pitch: 3.50 mm

Technical	
Terminal:	Brass, Tin plated
Wire protector:	Stainless strip steel
Insulating Body:	Polyester
Screw:	M2.0, steel, Chromatized
Color:	Black
Operation temperature:	-33°C to +105°C
Short-time Temperature:	Up to 200°C (+392°F)
Current rating:	6 amp AC300V
Insulation withstanding volt:	AC1500V min
Insulation resistance:	>5000Ω at DC500V
PCB hole Diameter:	φ 1.4 mm
Wire strip length:	4mm - 5mm
Wire range:	16 - 26 AWG
Screws torque:	2.5 lb-inch

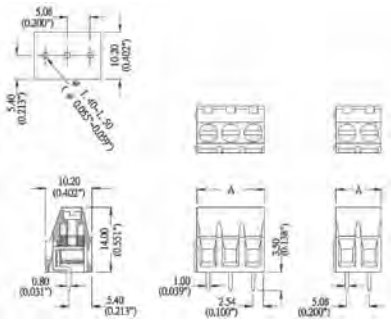
Item No.	Poles	A (mm)	A (inch)
T-212-350M2	2	7.00	0.276
T-212-350M3	3	10.50	0.413



Single Level • 90° • Pitch: 5.00 mm

Technical	
Cage clamp:	Brass, Ni plated
Terminal:	Brass, Tin plated, 0.8t
Insulating Body:	Polyamide66 (UL94V-0)
Screw:	M2.6, steel, Ni plated
Color:	Green
Operation temperature:	-55°C to +105°C
Short-time Temperature:	Up to 250°C (+482°F)
Current rating:	16 amp AC300V
Insulation withstanding volt:	AC2000V min
Insulation resistance:	>5000Ω at DC500V
PCB hole Diameter:	φ 1.4 mm - φ 1.5 mm
Wire strip length:	4mm - 5mm
Wire range:	14 - 24 AWG
Screws torque:	5.0 lb-inch

Item No.	Poles	A (mm)	A (inch)
T-312-500M2	2	10.00	0.394
T-312-500M3	3	15.00	0.591

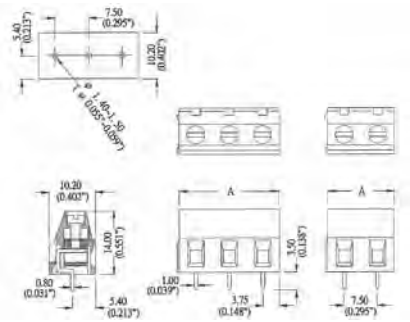


Single Level • 90° • Pitch: 5.08 mm

Technical	
Terminal:	Brass, Ni plated
Wire protector:	Brass, Tin plated, 0.8t
Insulating Body:	Polyamide66 (UL94V-0)
Screw:	M2.6, steel, Ni plated
Color:	Green
Operation temperature:	-55°C to +105°C
Short-time Temperature:	Up to 250°C (+482°F)
Current rating:	16 amp AC300V
Insulation withstanding volt:	AC2000V min
Insulation resistance:	>5000Ω at DC500V
PCB hole Diameter:	φ 1.4 mm - φ 1.5 mm
Wire strip length:	4mm - 5mm
Wire range:	14 - 24 AWG
Screws torque:	5.0 lb-inch

Item No.	Poles	A (mm)	A (inch)
T-312-508M2	2	10.16	0.400
T-312-508M3	3	15.24	0.600

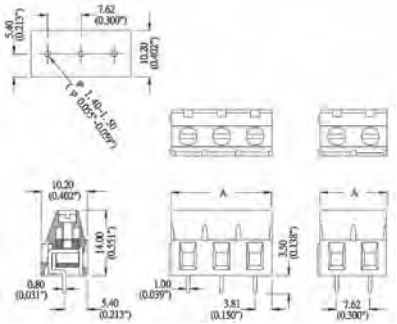
Single Level • 90° • Pitch: 7.50 mm



Technical	
Cage clamp:	Brass, Ni plated
Terminal:	Brass, Tin plated, 0.8t
Insulating Body:	Polyamide66 (UL94V-0)
Screw:	M2.6, steel, Ni plated
Color:	Green
Operation temperature:	-55°C to +105°C
Short-time Temperature:	Up to 250°C (+482°F)
Current rating:	16 amp AC300V
Insulation withstanding volt:	AC2000V min
Insulation resistance:	>5000Ω at DC500V
PCB hole Diameter:	φ 1.4 mm - φ 1.5 mm
Wire strip length:	4mm - 5mm
Wire range:	14 - 24 AWG
Screws torque:	5.0 lb-inch

Item No.	Poles	A (mm)	A (inch)
T-312-750M2	2	15.00	0.591
T-312-750M3	3	22.50	0.886

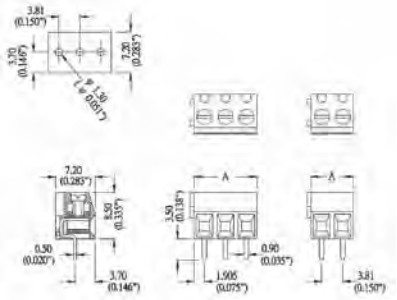
Single Level • 90° • Pitch: 7.62 mm



Technical	
Cage clamp:	Brass, Ni plated
Terminal:	Brass, Tin plated, 0.8t
Insulating Body:	Polyamide66 (UL94V-0)
Screw:	M2.6, steel, Ni plated
Color:	Green
Operation temperature:	-55°C to +105°C
Short-time Temperature:	Up to 250°C (+482°F)
Current rating:	16 amp AC300V
Insulation withstanding volt:	AC2000V min
Insulation resistance:	>5000Ω at DC500V
PCB hole Diameter:	φ 1.4 mm - φ 1.5 mm
Wire strip length:	4mm - 5mm
Wire range:	14 - 24 AWG
Screws torque:	5.0 lb-inch

Item No.	Poles	A (mm)	A (inch)
T-312-762M2	2	15.24	0.600
T-312-762M3	3	22.86	0.900

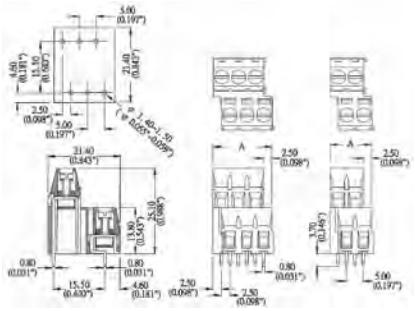
Single Level • 90° • Pitch: 3.81 mm



Technical	
Cage clamp:	Brass, Ni plated
Terminal:	Brass, Tin plated, 0.5t
Insulating Body:	Polyamide66 (UL94V-0)
Screw:	M2.0, steel, Ni plated
Color:	Green
Operation temperature:	-55°C to +105°C
Short-time Temperature:	Up to 200°C (+392°F)
Current rating:	8 amp AC300V
Insulation withstanding volt:	AC2000V min
Insulation resistance:	>5000Ω at DC500V
PCB hole Diameter:	φ 1.3
Wire strip length:	4mm - 5mm
Wire range:	16 - 26 AWG
Screws torque:	2.5 lb-inch

Item No.	Poles	A (mm)	A (inch)
T-332-381M2	2	7.62	0.300
T-332-381M3	3	11.43	0.450

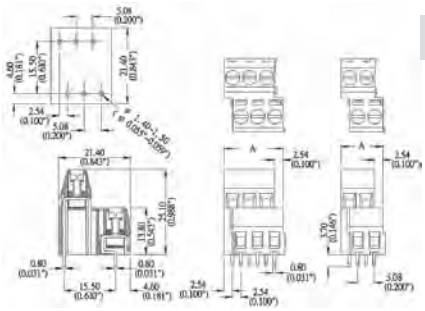
Double Level • 90° • Pitch: 5.00 mm



Technical	
Cage clamp:	Brass, Ni plated
Terminal:	Brass, Tin plated, 0.8t
Insulating	Body: Polyamide66 (UL94V-0)
Screw:	M2.6, steel, Ni plated
Color:	Green
Operation temperature:	-55°C to +105°C
Short-time Temperature:	Up to 250°C (+482°F)
Current rating:	16 amp AC300V
Insulation withstanding volt:	AC2000V min
Insulation resistance:	>5000Ω at DC500V
PCB hole Diameter:	φ 1.4 mm - φ 1.5 mm
Wire strip length:	4mm - 5mm
Wire range:	14 - 24 AWG
Screws torque:	4.5 lb-inch

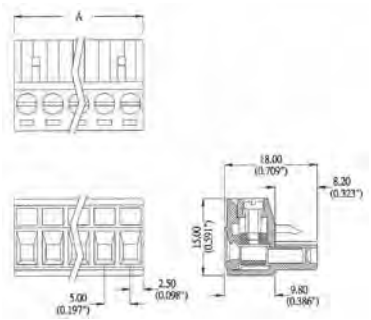
Item No.	Poles	A (mm)	A (inch)
T-362-500M2	2	12.50	0.492
T-362-500M3	3	17.50	0.689

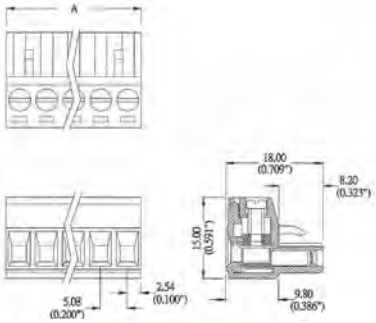
Double Level • 90° • Pitch: 5.08 mm



Technical	
Cage clamp:	Brass, Ni plated
Terminal:	Brass, Tin plated, 0.8t
Insulating Body:	Polyamide66 (UL94V-0)
Screw:	M2.6, steel, Ni plated
Color:	Green
Operation temperature:	-55°C to +105°C
Short-time Temperature:	Up to 250°C (+482°F)
Current rating:	16 amp AC300V
Insulation withstanding volt:	AC2000V min
Insulation resistance:	>5000Ω at DC500V
PCB hole Diameter:	φ 1.4 mm - φ 1.5 mm
Wire strip length:	4mm - 5mm
Wire range:	14 - 24 AWG
Screws torque:	4.5 lb-inch

Item No.	Poles	A (mm)	A (inch)
T-362-508M2	2	12.70	0.500
T-362-508M3	3	17.78	0.700





Plugs • 180°

Technical

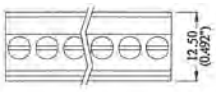
Cage clamp:	Brass, Ni plated
Contact:	Phosphor bronze, Tin plated, 0.4t
Insulating Body:	Polyamide66 (UL94V-0)
Screw:	M3.0, steel, Zinc plated
Color:	Green
Operation temperature:	-55°C to +105°C
Short-time temperature:	Up to 250°C (+482°F)
Current rating:	16 amp AC300V
Insulation withstanding volt:	AC2000V min
Insulation resistance:	>5000Ω at DC500V
Wire strip length:	4 mm - 5 mm
Wire range:	14 - 24 AWG
Screws torque:	4.5 lb-inch

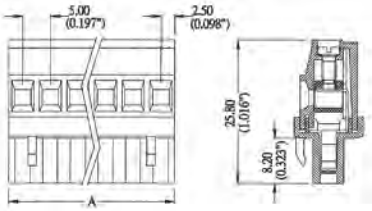
Pitch: 5.00 mm

Item No.	Poles	A (mm)	A (inch)	Item No.	Poles	A (mm)	A (inch)
P-100-50002	2	10.00	0.394	**P-100-50009**	9	45.00	1.772
P-100-50003	3	15.00	0.591	**P-100-50010**	10	50.00	1.969
P-100-50004	4	20.00	0.787	**P-100-50011**	11	55.00	2.165
P-100-50005	5	25.00	0.984	**P-100-50012**	12	60.00	2.362
P-100-50006	6	30.00	1.181				
P-100-50007	7	35.00	1.378	**P-100-50024**	24	120.00	4.724
P-100-50008	8	40.00	1.575				

Pitch: 5.08 mm

Item No.	Poles	A (mm)	A (inch)	Item No.	Poles	A (mm)	A (inch)
P-100-50802	2	10.16	0.400	**P-100-50809**	9	45.72	1.800
P-100-50803	3	15.24	0.600	**P-100-50810**	10	50.80	2.000
P-100-50804	4	20.32	0.800	**P-100-50811**	11	55.88	2.200
P-100-50805	5	25.40	1.000	**P-100-50812**	12	60.96	2.400
P-100-50806	6	30.48	1.200				
P-100-50807	7	35.56	1.400	**P-100-50824**	24	121.92	4.800
P-100-50808	8	40.64	1.600				



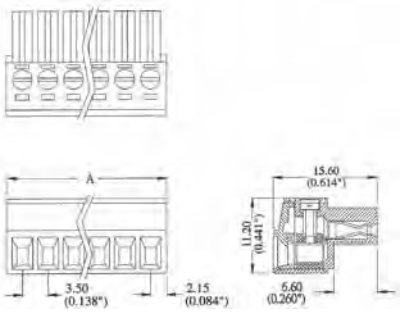


Plugs • 90° • Pitch: 5.00 mm

Technical

Cage clamp:	Brass, Ni plated
Contact:	Phosphor bronze, Tin plated, 0.4t
Insulating Body:	Polyamide66 (UL94V-0)
Screw:	M2.6, steel, Zinc plated
Color:	Green
Operation temperature:	-55°C to +105°C
Short-time temperature:	Up to 250°C (+482°F)
Current rating:	16 amp AC300V
Insulation withstanding volt:	AC2000V min
Insulation resistance:	>5000Ω at DC500V
Wire strip length:	7 mm
Wire range:	14 - 24 AWG
Screws torque:	4.5 lb-inch

Item No.	Poles	A (mm)	A (inch)	Item No.	Poles	A (mm)	A (inch)
P-200-50002	2	10.00	0.394	**P-200-50009**	9	45.00	1.772
P-200-50003	3	15.00	0.591	**P-200-50010**	10	50.00	1.969
P-200-50004	4	20.00	0.787	**P-200-50011**	11	55.00	2.165
P-200-50005	5	25.00	0.984	**P-200-50012**	12	60.00	2.362
P-200-50006	6	30.00	1.181				
P-200-50007	7	35.00	1.378	**P-200-50024**	24	120.00	4.724
P-200-50008	8	40.00	1.575				

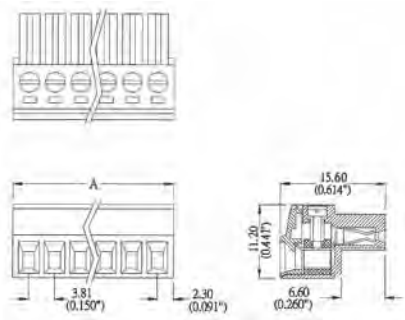


Plugs • 180° • Pitch: 3.50 mm

Technical

Cage clamp:	Brass, Ni plated
Contact:	Phosphor bronze, Tin plated, 0.3t
Insulating Body:	Polyamide66 (UL94V-0)
Screw:	M2.0, steel, Zinc
Color:	Green
Operation temperature:	-55°C to +105°C
Short-time temperature:	Up to 250°C (+482°F)
Current rating:	10 amp AC300V
Insulation withstanding volt:	AC2000V min
Insulation resistance:	>5000Ω at DC500V
Wire strip length:	6.5 mm
Wire range: 16 - 26 AWG	
Screws torque: 2.5 lb-inch	

Item No.	Poles	A (mm)	A (inch)	Item No.	Poles	A (mm)	A (inch)
P-420-35002	2	7.80	0.307	**P-420-35009**	9	32.30	1.272
P-420-35003	3	11.30	0.445	**P-420-35010**	10	35.80	1.409
P-420-35004	4	14.80	0.583	**P-420-35011**	11	39.30	1.547
P-420-35005	5	18.30	0.720	**P-420-35012**	12	42.80	1.685
P-420-35006	6	21.80	0.858	**P-420-35013**	13	46.30	1.823
P-420-35007	7	25.30	0.996	**P-420-35014**	14	49.80	1.961
P-420-35008	8	28.80	1.134				

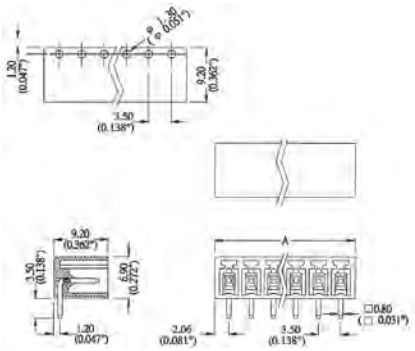


Plugs • 180° • Pitch: 3.81 mm

Technical

Cage clamp:	Brass, Ni plated
Contact:	Phosphor bronze, Tin plated, 0.3t
Insulating Body:	Polyamide66 (UL94V-0)
Screw:	M2.0, steel, Zinc
Color:	Green
Operation temperature:	-55°C to +105°C
Short-time temperature:	Up to 250°C (+482°F)
Current rating:	10 amp AC300V
Insulation withstanding volt:	AC2000V min
Insulation resistance:	>5000Ω at DC500V
Wire strip length:	6.5 mm
Wire range:	16 - 26 AWG
Screws torque:	2.5 lb-inch

Item No.	Poles	A (mm)	A (inch)	Item No.	Poles	A (mm)	A (inch)
P-420-38102	2	8.41	0.331	**P-420-38109**	9	35.08	1.381
P-420-38103	3	12.22	0.481	**P-420-38110**	10	38.89	1.531
P-420-38104	4	16.03	0.631	**P-420-38111**	11	42.70	1.681
P-420-38105	5	19.84	0.781	**P-420-38112**	12	46.51	1.831
P-420-38106	6	23.65	0.931				
P-420-38107	7	27.46	1.081	**P-420-38116**	16	61.75	2.431
P-420-38108	8	31.27	1.231				

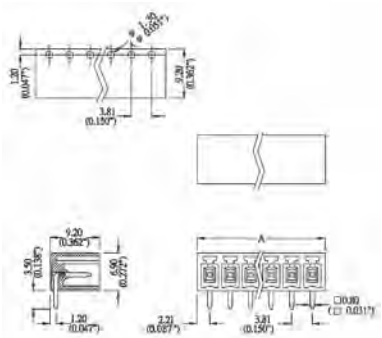


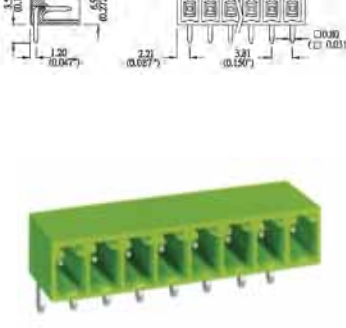
Headers • Closed 90° • Pitch: 3.50 mm

Technical

Solder pin:	0.8 mm, Brass, Tin plated
Insulating Body:	Polyamide66 (UL94V-0)
Color:	Green
Operation temperature:	-55°C to +105°C
Short-time temperature:	Up to 250°C (+482°F)
Current rating:	12 amp AC300V
Insulation withstanding volt:	AC2000V min
Insulation resistance:	>5000Ω at DC500V
PDB hole Diameter:	φ 1.3 mm

Item No.	Poles	A (mm)	A (inch)	Item No.	Poles	A (mm)	A (inch)
H-030-35002	2	7.60	0.299	**H-030-35009**	9	32.10	1.264
H-030-35003	3	11.10	0.437	**H-030-35010**	10	35.60	1.402
H-030-35004	4	14.60	0.575	**H-030-35011**	11	39.10	1.539
H-030-35005	5	18.10	0.713	**H-030-35012**	12	42.60	1.677
H-030-35006	6	21.60	0.850	**H-030-35013**	13	46.10	1.815
H-030-35007	7	25.10	0.988	**H-030-35014**	14	49.60	1.953
H-030-35008	8	28.60	1.126				



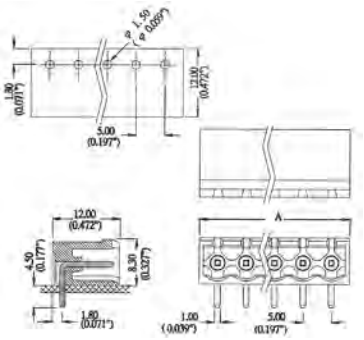


Headers • Closed 90° • Pitch: 3.81 mm

Technical

Solder pin:	0.8 mm, Brass, Tin plated
Insulating Body:	Polyamide66 (UL94V-0)
Color:	Green
Operation temperature:	-55°C to +105°C
Short-time temperature:	Up to 250°C (+482°F)
Current rating:	12 amp AC300V
Insulation withstanding volt:	AC2000V min
Insulation resistance:	>5000Ω at DC500V
PDB hole Diameter:	φ 1.3 mm

Item No.	Poles	A (mm)	A (inch)	Item No.	Poles	A (mm)	A (inch)
H-030-38102	2	8.23	0.324	**H-030-38109**	9	34.90	1.374
H-030-38103	3	12.04	0.474	**H-030-38110**	10	38.71	1.524
H-030-38104	4	15.85	0.624	**H-030-38111**	11	42.52	1.674
H-030-38105	5	19.66	0.774	**H-030-38112**	12	46.33	1.824
H-030-38106	6	23.47	0.924				
H-030-38107	7	27.28	1.074	**H-030-38116**	16	61.57	2.424
H-030-38108	8	31.09	1.224				

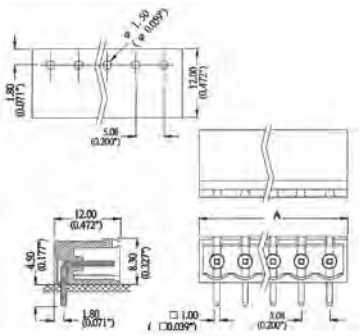


Headers • Closed 90° • Pitch: 5.00 mm

Technical

Solder pin:	1.0 mm, Brass, Tin plated
Insulating Body:	Polyamide66 (UL94V-0)
Color:	Green
Operation temperature:	-55°C to +105°C
Short-time temperature:	Up to 250°C (+482°F)
Current rating:	12 amp AC300V
Insulation withstanding volt:	AC2000V min
Insulation resistance:	>5000Ω at DC500V
PDB hole Diameter:	φ 1.5 mm

Item No.	Poles	A (mm)	A (inch)	Item No.	Poles	A (mm)	A (inch)
H-030-50002	2	11.60	0.457	**H-030-50009**	9	46.60	1.835
H-030-50003	3	16.60	0.654	**H-030-50010**	10	51.60	2.031
H-030-50004	4	21.60	0.850	**H-030-50011**	11	56.60	2.228
H-030-50005	5	26.60	1.047	**H-030-50012**	12	61.60	2.425
H-030-50006	6	31.60	1.244				
H-030-50007	7	36.60	1.441	**H-030-50016**	16	121.60	4.787
H-030-50008	8	41.60	1.638				

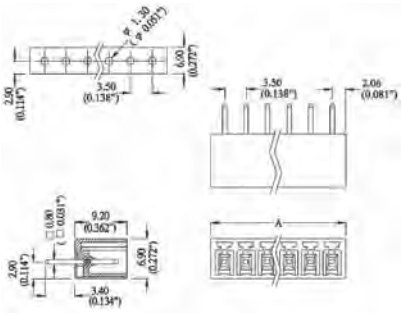


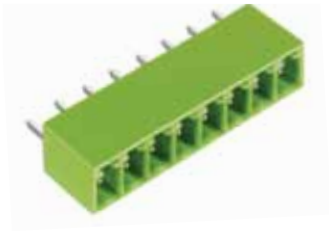
Headers • Closed 90° • Pitch: 5.08 mm

Technical

Solder pin:	1.0 mm, Brass, Tin plated
Insulating Body:	Polyamide66 (UL94V-0)
Color:	Green
Operation temperature:	-55°C to +105°C
Short-time temperature:	Up to 250°C (+482°F)
Current rating:	12 amp AC300V
Insulation withstanding volt:	AC2000V min
Insulation resistance:	>5000Ω at DC500V
PDB hole Diameter:	φ 1.5 mm

Item No.	Poles	A (mm)	A (inch)	Item No.	Poles	A (mm)	A (inch)
H-030-50802	2	11.76	0.463	**H-030-50809**	9	47.32	1.863
H-030-50803	3	16.84	0.663	**H-030-50810**	10	52.40	2.063
H-030-50804	4	21.92	0.863	**H-030-50811**	11	57.48	2.263
H-030-50805	5	27.00	1.063	**H-030-50812**	12	62.56	2.463
H-030-50806	6	32.08	1.263				
H-030-50807	7	37.16	1.463	**H-030-50816**	16	123.52	4.863
H-030-50808	8	42.24	1.663				



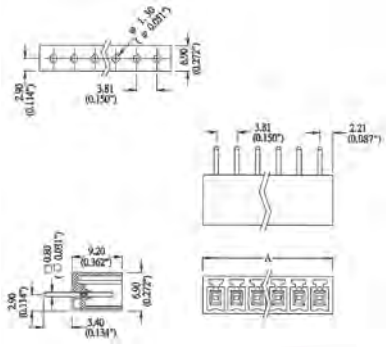


HEADERS • CLOSED 180° • PITCH: 3.50 MM

TECHNICAL

SOLDER PIN:	0.8 MM, BRASS, TIN PLATED
INSULATING BODY:	POLYAMIDE66 (UL94V-0)
COLOR:	GREEN
OPERATION TEMPERATURE:	-55°C TO +105°C
SHORT-TIME TEMPERATURE:	UP TO 250°C (+482°F)
CURRENT RATING:	12 AMP AC300V
INSULATION WITHSTANDING VOLT:	AC2000V MIN
INSULATION RESISTANCE:	>5000Ω AT DC500V
PDB HOLE DIAMETER:	φ 1.3 MM

ITEM NO.	POLES	A (MM)	A (INCH)	ITEM NO.	POLES	A (MM)	A (INCH)
H-040-35002	2	7.60	0.299	**H-040-35009**	9	32.10	1.264
H-040-35003	3	11.10	0.437	**H-040-35010**	10	35.60	1.402
H-040-35004	4	14.60	0.575	**H-040-35011**	11	39.10	1.539
H-040-35005	5	18.10	0.713	**H-040-35012**	12	42.60	1.677
H-040-35006	6	21.60	0.850	**H-040-35013**	13	46.10	1.815
H-040-35007	7	25.10	0.988	**H-040-35014**	14	49.60	1.953
H-040-35008	8	28.60	1.126				

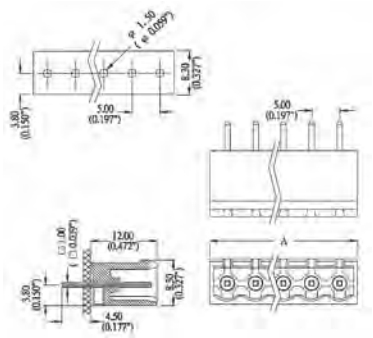


HEADERS • CLOSED 180° • PITCH: 3.81 MM

TECHNICAL

SOLDER PIN:	0.8 MM, BRASS, TIN PLATED
INSULATING BODY:	POLYAMIDE66 (UL94V-0)
COLOR:	GREEN
OPERATION TEMPERATURE:	-55°C TO +105°C
SHORT-TIME TEMPERATURE:	UP TO 250°C (+482°F)
CURRENT RATING:	12 AMP AC300V
INSULATION WITHSTANDING VOLT:	AC2000V MIN
INSULATION RESISTANCE:	>5000Ω AT DC500V
PDB HOLE DIAMETER:	φ 1.3 MM

ITEM NO.	POLES	A (MM)	A (INCH)	ITEM NO.	POLES	A (MM)	A (INCH)
H-040-38102	2	8.23	0.324	**H-040-38109**	9	34.90	1.374
H-040-38103	3	12.04	0.474	**H-040-38110**	10	38.71	1.524
H-040-38104	4	15.85	0.624	**H-040-38111**	11	42.52	1.674
H-040-38105	5	19.66	0.774	**H-040-38112**	12	46.33	1.824
H-040-38106	6	23.47	0.924				
H-040-38107	7	27.28	1.074	**H-040-38116**	16	61.57	2.424
H-040-38108	8	31.09	1.224				

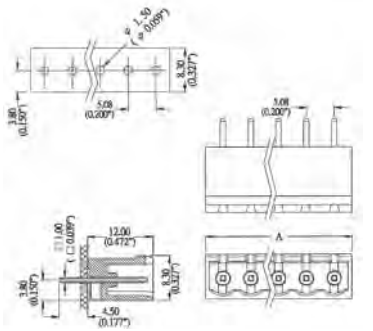


Headers • Closed 180° • Pitch: 5.00 mm

Technical

Solder pin:	1.0 mm, Brass, Tin plated
Insulating Body:	Polyamide66 (UL94V-0)
Color:	Green
Operation temperature:	-55°C to +105°C
Short-time temperature:	Up to 250°C (+482°F)
Current rating:	12 amp AC300V
Insulation withstanding volt:	AC2000V min
Insulation resistance:	>5000Ω at DC500V
PDB hole Diameter:	φ 1.5 mm

Item No.	Poles	A (mm)	A (inch)	Item No.	Poles	A (mm)	A (inch)
H-040-50002	2	11.60	0.457	**H-040-50009**	9	46.60	1.835
H-040-50003	3	16.60	0.654	**H-040-50010**	10	51.60	2.031
H-040-50004	4	21.60	0.850	**H-040-50011**	11	56.60	2.228
H-040-50005	5	26.60	1.047	**H-040-50012**	12	61.60	2.425
H-040-50006	6	31.60	1.244				
H-040-50007	7	36.60	1.441	**H-040-50016**	16	121.60	4.787
H-040-50008	8	41.60	1.638				



Headers • Closed 180° • Pitch: 5.08 mm

Technical

Solder pin:	1.0 mm, Brass, Tin plated
Insulating Body:	Polyamide66 (UL94V-0)
Color:	Green
Operation temperature:	-55°C to +105°C
Short-time temperature:	Up to 250°C (+482°F)
Current rating:	12 amp AC300V
Insulation withstanding volt:	AC2000V min
Insulation resistance:	>5000Ω at DC500V
PDB hole Diameter:	φ 1.5 mm

Item No.	Poles	A (mm)	A (inch)	Item No.	Poles	A (mm)	A (inch)
H-040-50802	2	11.76	0.463	**H-040-50809**	9	47.32	1.863
H-040-50803	3	16.84	0.663	**H-040-50810**	10	52.40	2.063
H-040-50804	4	21.92	0.863	**H-040-50811**	11	57.48	2.263
H-040-50805	5	27.00	1.063	**H-040-50812**	12	62.56	2.463
H-040-50806	6	32.08	1.263				
H-040-50807	7	37.16	1.463	**H-040-50816**	16	123.52	4.863
H-040-50808	8	42.24	1.663				

Screwdrivers

The ergonomic design of our screwdriver handles efficiently help to provide the proper tightening torque for your terminal block application. Insulation is rated at 10,000V for your safety. The tips of our screwdrivers are made of hardened steel for a longer tool life.

Features

- ergonomic handle provides proper tightening torque
- impact resistant material used to provide long lasting use
- insulation sleeve provides isolation up to 10,000 V
- Approvals: DIN - VDE 0680/2, ISO, IEC 900, EN 60900


W900837


W900838


W900839


W900840


W900841


W900858


W900857

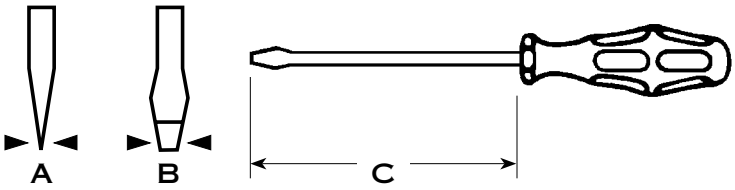

W900832


W900833


W900834


W900844


W900836



Description	Part No.	A (mm)	B (mm)	C (mm)
Insulated Screwdrivers	W900837	0.4	2.5	80
	W900838	0.5	3.0	100
	W900839	0.6	3.5	100
	W900840	0.8	4.0	100
	W900841	1.0	5.5	125
Kit for Insulated Screwdrivers (3)	W900844 (includes one of each: W900838, W900839, W900840)			
Non-Insulated Screwdrivers	W900832	0.5	3.0	80
	W900833	0.6	3.5	100
	W900834	0.8	4.0	100
Kit for Non-Insulated Screwdrivers (3)	W900836 (includes one of each: W900832, W900833, W900834)			
Insulated Phillips Screwdriver	W900858 (100 mm)			
Non-Insulated Phillips Screwdriver	W900857 (80 mm)			

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