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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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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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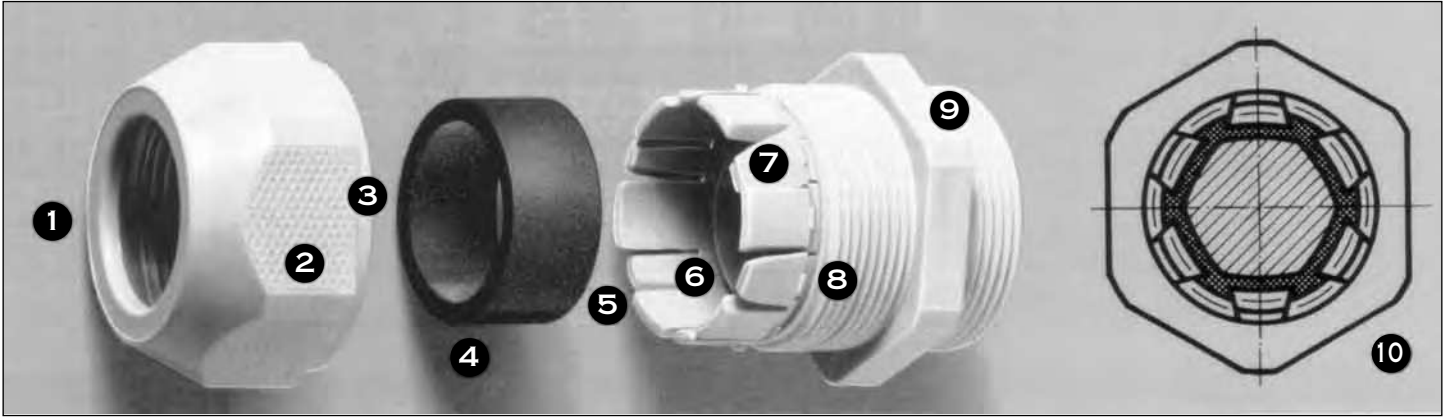
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### MAIN FEATURES: CABLE GRIPS

- 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 MISTHEADS 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	METRIC	MM	INCHES
7	12.5	0.492	12	12	0.472
9	15.2	0.598	16	16	0.63
11	18.6	0.732	20	20	0.787
13.5	20.4	0.803	25	25	0.984
16	22.5	0.886	32	32	1.26
21	28.3	1.114	40	40	1.575
29	37	1.457	50	50	1.969
36	47	1.85	63	63	2.48
42	54	2.126			
48	59.3	2.338			

# 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

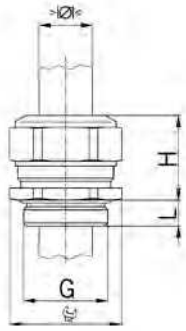
1. THE USE OF SYNTHETIC - CABLE GRIPS IS ALMOST UNLIMITED WITHIN THE ELECTRICAL AND ELECTRONICS INDUSTRY. INSTALLATIONS WHERE CABLES MUST BE LED SAFELY THROUGH A WALL OF AN ENCLOSURE WILL BE SPECIFIED WITH CABLE GRIPS. SYNTHETIC CABLE GRIPS ARE SPECIFIED TO:
  - **SECURE THE CABLE** TO THE ENCLOSURE'S 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	Ø 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

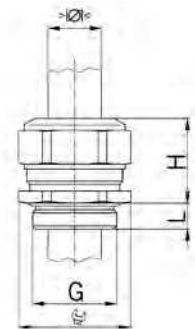


G	>Ø< min mm	>Ø< max mm	Ø mm	H mm	L mm	Part. no.	
M16x1.5	6.0	10.5	18	22	5	1060.17	50
M20x1.5	8.0	14.5	24	23	6	1060.20	50
M25x1.5	12.5	19.0	30	28	7	1060.25	25
M32x1.5	17.0	25.5	36	28	8	1060.32	25
M40x1.5	24.0	33.0	46	31	8	1060.40	10
M50x1.5	33.0	42.0	55	34	9	1060.50	10
M63x1.5	40.0	52.0	70	37	10	1060.63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



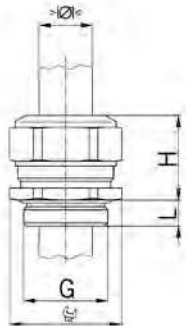
1 = METRIC COARSE-PITCH THREAD





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

LONG ENTRY THREAD METRIC



### PROGRESS MS

ONE-PIECE SEALING INSERT / OVERALL LENGTH INSULATED



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

1 = METRIC COARSE-PITCH THREAD



### PROGRESS MS

TWO-PIECE SEALING INSERT / OVERALL LENGTH INSULATED

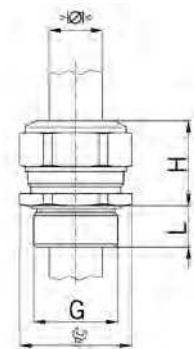


G	>Ø< min mm	>Ø< max mm	Ø mm	H mm	L mm	PART. NO.	
<b>M16x1.5</b>	6.0	10.5	18	22	10	<b>1160.17</b>	50
<b>M20x1.5</b>	8.0	14.5	24	23	10	<b>1160.20</b>	50
<b>M25x1.5</b>	12.5	19.0	30	28	11	<b>1160.25</b>	25
<b>M32x1.5</b>	17.0	25.5	36	28	13	<b>1160.32</b>	25
<b>M40x1.5</b>	24.0	33.0	46	31	13	<b>1160.40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

# 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



ONE-PIECE SEALING INSERT / NOT OVERALL LENGTH INSULATED

G	>Ø< min mm	>Ø< max mm	Ø 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



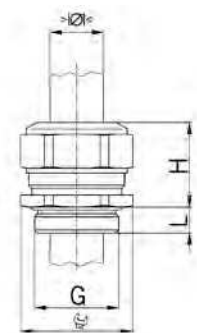
TWO-PIECE SEALING INSERT / NOT OVERALL LENGTH INSULATED

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

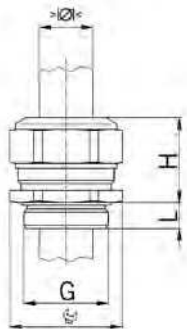
G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	PART. NO.	
Pg 9	6.0	10.5	18	22	6.0	1060.09	50
Pg 11	5.5	12.0	21	21	6.0	1060.11	50
Pg 13	8.0	14.5	24	23	6.0	1060.13	50
Pg 16	8.0	14.5	24	23	6.0	1060.16	50
Pg 21	12.5	19.0	30	28	7.5	1060.21	25
Pg 29	19.0	27.5	38	28	8.0	1060.29	25
Pg 36	26.0	35.0	50	32	8.0	1060.36	10
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	Ø 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

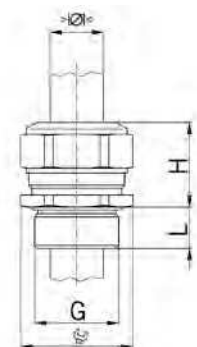


G	>Ø< min mm	>Ø< max mm	Ø mm	H mm	L mm	PART. NO.	
Pg 9	6.0	10.5	18	22	6.0	1000.09	50
Pg 11	5.5	12.0	21	21	6.0	1000.11	50
Pg 13	8.0	15.0	24	23	6.0	1000.13	50
Pg 16	8.0	15.0	24	23	6.0	1000.16	50
Pg 21	12.5	20.5	30	28	7.5	1000.21	25
Pg 29	19.0	27.5	38	28	8.0	1000.29	25
Pg 36	26.0	35.0	50	32	8.0	1000.36	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

# 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 / OVERALL LENGTH INSULATED

G	$\begin{matrix} >\varnothing< \\ \text{min mm} \end{matrix}$	$\begin{matrix} >\varnothing< \\ \text{max mm} \end{matrix}$	$\begin{matrix} \text{mm} \\ \text{mm} \end{matrix}$	H	L	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

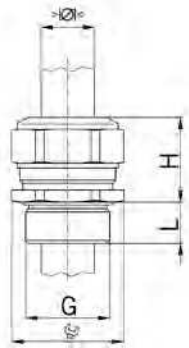
G	$\begin{matrix} >\varnothing< \\ \text{min mm} \end{matrix}$	$\begin{matrix} >\varnothing< \\ \text{max mm} \end{matrix}$	$\begin{matrix} \text{mm} \\ \text{mm} \end{matrix}$	H	L	PART. NO.	
Pg 9	6.0	10.5	18	22	10	1160.09	50
Pg 11	5.5	12.0	21	21	10	1160.11	50
Pg 13	8.0	14.5	24	23	10	1160.13	50
Pg 16	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	Ø 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

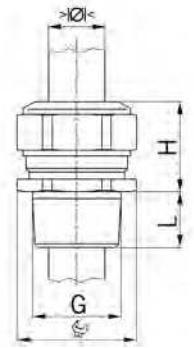


G	>Ø< min mm	>Ø< max mm	Ø mm	H mm	L mm	PART. NO.	
Pg 9	6.0	10.5	18	22	10	1100.09	50
Pg 11	5.5	12.0	21	21	10	1100.11	50
Pg 13	8.0	15.0	24	23	10	1100.13	50
Pg 16	8.0	15.0	24	23	10	1100.16	50
Pg 21	12.5	20.5	30	28	12	1100.21	25
Pg 29	19.0	27.5	38	28	12	1100.29	25
Pg 36	26.0	35.0	50	32	15	1100.36	10
Pg 42	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	Ø 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	Ø 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

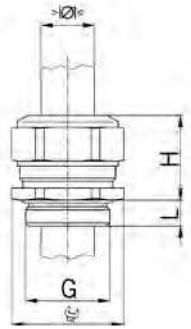






## CABLE GLANDS NICKEL-PLATED BRASS



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

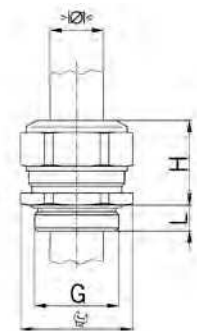
<b>G</b>	$>Ø<$ min mm	$>Ø<$ max mm	 mm	<b>H</b> mm	<b>L</b> mm	<b>i</b> info	PART. NO.	
<b>G 3/8"</b>	5.5	12.0	21	21	6	-	<b>1000.3/8G</b>	50
<b>G 1/2"</b>	8.0	15.0	24	23	8	-	<b>1000.1/2G</b>	50
<b>G 3/4"</b>	12.5	20.5	30	28	10	-	<b>1000.3/4G</b>	25
<b>G 1"</b>	17.0	25.5	36	28	11	-	<b>1000.1G</b>	25
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



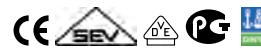
ONE-PIECE SEALING INSERT / NOT OVERALL LENGTH INSULATED

G	>math>\varnothing</math> min mm	>math>\varnothing</math> max mm	>math>\varnothing</math> 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



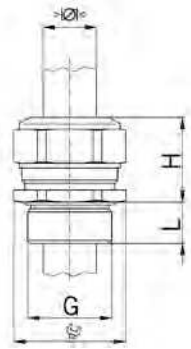
TWO-PIECE SEALING INSERT / NOT OVERALL LENGTH INSULATED

G	>math>\varnothing</math> min mm	>math>\varnothing</math> max mm	>math>\varnothing</math> 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

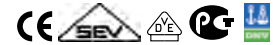


### PROGRESS MS HT

ONE-PIECE SEALING INSERT / NOT OVERALL LENGTH INSULATED

G	>Ø< min mm	>Ø< max mm	Ø 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	Ø 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

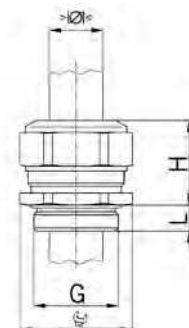


## CABLE GLANDS NICKEL-PLATED BRASS

### 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<		mm	H mm	L mm	PART. NO.	50
	min mm	max mm					
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<		mm	H mm	L mm	PART. NO.	50
	min mm	max mm					
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

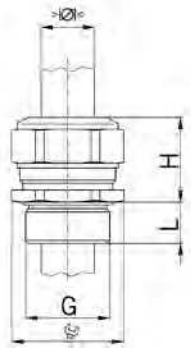




## CABLE GLANDS NICKEL-PLATED BRASS

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



#### PROGRESS MS HT



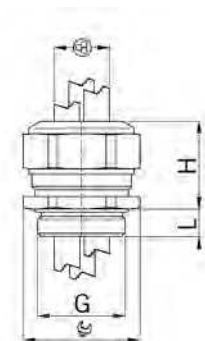
TWO-PIECE SEALING INSERT / NOT OVERALL LENGTH INSULATED

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

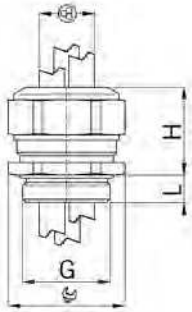
G	>Ø< min mm	>Ø< max mm			H mm	L mm	PART. NO.	
M16x1.5	2.0	3.0	2	18	22	5	1310.17.2.030	50
M16x1.5	2.5	4.0	2	18	22	5	1310.17.2.040	50
M16x1.5	3.5	5.0	2	18	22	5	1310.17.2.050	50
M20x1.5	3.5	5.0	2	24	23	6	1310.20.2.050	50
M20x1.5	4.5	6.0	2	24	23	6	1310.20.2.060	50
M20x1.5	5.5	7.5	2	24	23	6	1310.20.2.075	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

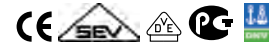


**MATERIAL:** NICKEL-PLATED BRASS  
**SEAL:** TPE  
**O-RING:** NBR  
**STRAIN RELIEF:** ACCORDING TO EN 50262 VERSION A  
**TEMPERATURE RANGE:** -40°C / +100°C  
**PROTECTION CLASS:** IP 68



### PROGRESS MS MULTI

ONE-PIECE SEALING INSERT / NOT OVERALL LENGTH INSULATED



G	$\varnothing$				H	L	PART. NO.	
	min mm	max mm						
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

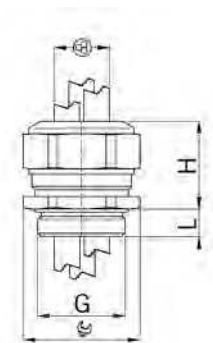
FURTHER VERSIONS AND LARGER ENTRY THREADS ARE AVAILABLE UPON REQUEST.

# 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			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



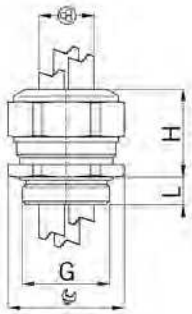
FURTHER VERSIONS AND LARGER ENTRY THREADS ARE AVAILABLE UPON REQUEST.





## 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			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

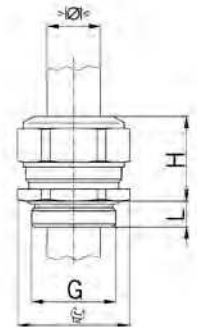
FURTHER VERSIONS AND LARGER ENTRY THREADS ARE AVAILABLE UPON REQUEST.

## 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	>ØK 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	>ØK 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.