





# Mining And Surface Certification (Pty) Ltd

2015/021934/07

THIS CERTIFICATE IS ISSUED AS AN I.A. CERTIFICATE IN TERMS OF THE MINE HEALTH AND SAFETY ACT, ACT NO 29 OF 1996 (AND REGULATIONS), THE OCCUPATIONAL HEALTH AND SAFETY ACT (ACT 85 OF 1993) AND REGULATION 17 OF THE ELECTRICAL MACHINERY REGULATIONS

<b>IA CERTIFICATE</b>	MASC S/25-8100X	<b>Issue</b>	0
<b>Issue Date</b>	27 March 2025	<b>Expiry Date</b>	27 March 2028
<b>** Based on Certificate No</b>	IECEx IMQ 15.0001X	<b>Issue / Variations / Amendment</b>	4
<b>Requested by</b>	<b>Pepperl+Fuchs (Pty) Ltd</b> 8 Glen Eagle Office Park, Koorsboom Ave, Glen Marais, Kempton Park, 1619, South Africa		
<b>Manufacturer</b>	<b>Pepperl+Fuchs SE</b> Lilienthalstrasse 200, 68307 Mannheim, Germany		
<b>Description</b>	The polyamide cable glands series CG.P ***. ** PA **. are used to introduce permanently circular cables into enclosure. Plugs series SP.PE. **. PA **. are used to close unused cable entry of an enclosure. Cable glands and plugs are suitable for electrical equipment either with type of protection Ex-e or type of protection Ex-t. Cable glands should be also used for intrinsically safe circuits Ex-i. Cable glands CG.P * DS *. ** PA **. are provided with double (S1+S2) sealing rings. Cable glands can be supplied with tap, polyamide made, as accessory (BP.P*. **. PA. *), suitable to guarantee IP degree when installed according to manufacturer's instructions.  See **Base certificate Annex for full details.		
<b>Equipment</b>	Polyamide cable glands for circular cables	<b>Type</b>	CG.P ***. ** PA **. ; Polyamide plugs, series SP.PE. *. PA. **
<b>MARKING:</b> <b>Original marking as per certificate ** remains applicable.</b> <b>IA number must be added.</b>	<b>Type:</b>  <b>Ex Marking:</b>  <b>IA Number:</b> <b>Warnings:</b>	Polyamide cable glands for circular cables, series CG.P ***. ** PA **. ; Polyamide plugs, series SP.PE. **. PA. ** Ex eb IIC Gb Ex tb III C Db IP66/68 MASC S/25-8100X (To be additionally marked on equipment) See Base Certificate ** (original marking must be applied)	
<b>Quality Assurance report (QAR) / Notification (QAN):</b>		DE/PTB/QAR06.0015/22	
<b>Compliance:</b> The equipment as described above has been allocated the rating <u>Explosion Protected 'as above'</u> utilizing the SANS/IEC Standards: <ul style="list-style-type: none"> <li>SANS (IEC) 60079-0: 2019 Equipment - General requirements</li> <li>SANS (IEC) 60079-7: 2019 Equipment protection by increased safety "e"</li> <li>SANS (IEC) 60079-31: 2014 Equipment dust ignition protection by enclosure "t"</li> </ul> <i>Note: This certificate covers only the listed standards and does not imply compliance to any other standard, related or inferred. It is up to the manufacturer to ensure that the product complies to all relevant standards for the application.</i>			
<b>Specific conditions of use "X":</b> <ul style="list-style-type: none"> <li>Refer to Annex A below for more details.</li> </ul>			
<b>Conditions of manufacture:</b> <ul style="list-style-type: none"> <li>Refer to Annex A below for more details.</li> </ul>			
 <b>S. JORDAAN</b> <b>TECHNICAL SPECIALIST</b>		 <b>N. VILOJEN</b> <b>TECHNICAL OFFICER</b>	
<p><b>This certificate covers all units sold as long as the QAR/QAN remains valid.</b></p> <p>According to the relevant requirements of the MHS Act and the OHS Act, production units of explosion protected equipment are required to comply with third party quality assurance (an approved mark scheme or batch testing by an accredited test laboratory).</p>			

Apparatus in hazardous locations is subject to the following provisions as applicable, which shall be adhered to:

SANS 10086 requirements;

Any conditions mentioned in the above certificate;

Any relevant requirements of the MHS Act;

Any restrictions and conditions enforced by the chief inspector of mines, principal inspector (Group I equipment) or chief inspector of factories (Group II equipment).

This certificate may only be reproduced in full

The certificate is not transferable and remains the property of the issuing body.

# IA CERTIFICATE: MASC S/25-8100X

## Equipment: Polyamide cable glands for circular cables

(Expiry date: 27 March 2028)

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### ANNEX A

This document is based on and must be read in conjunction with certificate IECEx IMQ 15.0001X.	
<b>Description (According to Base Certificate) **</b>	
"Refer to description in Base Certificate ** (and any applicable schedules/issues/variatioins)."	
<b>Standard compliance</b>	See Base Certificate **
<b>Specific conditions of use ("X")</b>	<ul style="list-style-type: none"> <li>The cable glands are only suitable for fixed installations. Cables shall be effectively clamped to prevent pulling or twisting.</li> <li>The cable gland installation shall be done according to safety manufacturer instructions to maintain degree of protection.</li> <li>For gas installations (only for cable glands with M50/PG42/PF 1 1/2"/NPT 1 1/2" threads and following) and dust installations: Warning. Potential electrostatic charging hazard - See instructions. Clean only with antistatic clothes.</li> <li>When cable glands are installed with polyamide insert BP.P*.PA., mechanical risk has to be taken into account, depending on cable gland and insert tap. When insert tap is removed in order to install the proper cable, the integrity of sealing rings has to be checked, in order to guarantee the correct tightness. If necessary, sealing rings have to be replaced with new ones (original spare parts only)</li> </ul>
<b>Conditions of manufacture</b>	<ul style="list-style-type: none"> <li>None.</li> </ul>
<b>Conditions of Certification</b>	<ul style="list-style-type: none"> <li>This IA Certificate covers all units sold from the date of this document to the expiry date of this certificate.</li> <li>As per ARP 0108: 2018 / NCoP 2398: 2022 (as applicable) a maximum three yearly review is required on this IA Certificate (expiry is determined as per the QAR/QAN/QMS expiry date).</li> <li>The apparatus must be additionally marked with the MASC marking details above.</li> <li>This approval only covers the equipment as certified above and does not include any scheduled additions or variations / amendments / new issues to the certificate(s), made after the above date.</li> <li>The equipment does not need to be re-tested when used on the conditions and with such restrictions as prescribed by the certificate on which this IA Certificate is based and any other conditions in this IA Certificate.</li> <li>The certification on which this IA Certificate is based must remain valid.</li> <li>The extent of the requirements in the ARP 0108:2018 / NCoP 2398: 2022 (as applicable), SANS 10108 and any other applicable regulations on the certification of the equipment must remain unchanged.</li> <li>The Ex-quality assurance notification/report for the equipment must remain valid.</li> </ul>
<b>Conclusion:</b>	<ul style="list-style-type: none"> <li>From the above and the selective examination of the documentation, nothing contrary to the requirements of the applicable standards was found, provided that the equipment / component is used as described in the above document / certificate and according to the MASC conditions below. A MASC IA certificate is issued based on the work done as per the Base Certificate **.</li> <li>The routine tests for production units according to the Base Certificate ** must be complied with (if applicable).</li> </ul>

This document is issued based on Mining And Surface Certification's Standard Contract terms and conditions available on request.

While every endeavour is made to ensure that a test / assessment / inspection is representative and accurately performed, and that a report / certificate is accurate in the quoted results and conclusions drawn from the test / assessment / inspection, MASC or its directors/employees shall in no way be liable for any error made in carrying out the test / assessment or for any erroneous statement, whether in fact or in opinion, contained in a report / certificate issued pursuant to a test / assessment / inspection.

MASC takes no responsibility for any non-conformances, exclusions, or any results / assessments / inspections not in compliance with the standards. By marking the equipment in accordance with the documentation / standard, the manufacturer / applicant attests on his own responsibility that the equipment / installation has been designed and constructed in accordance with the applicable requirements of the relevant standards and documentation, that the routine verifications / routine tests have been correctly completed and the equipment / installation complies with the documentation and standard(s).

This document is only for use and application in South Africa. It is issued based on National interpretations and accepted practices.

This document may only be reproduced in full.

This certificate is not transferable and remains the property of the issuing body.

This document will not be supported by MASC for certification purposes outside the borders of South Africa.

Mining And Surface Certification (Pty) Ltd Reg No: 2015/021934/07  
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# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.:	<b>IECEx IMQ 15.0001X</b>	Page 1 of 4	<u>Certificate history:</u>
Status:	<b>Current</b>	Issue No: 4	<a href="#">Issue 3 (2021-02-05)</a>
Date of Issue:	2022-06-01		<a href="#">Issue 2 (2017-09-22)</a>
			<a href="#">Issue 1 (2015-11-03)</a>
			<a href="#">Issue 0 (2015-04-02)</a>
Applicant:	<b>Pepperl+Fuchs SE</b> Lilienthalstrasse 200 68307 Mannheim Germany		
Equipment:	<b>Polyamide cable glands for circular cables, series CG.P *** . ** PA . ** ; Polyamide plugs, series SP.PE. ** .PA. **</b>		
Optional accessory:			
Type of Protection:	<b>Ex eb; Ex tb</b>		
Marking:	Ex eb IIC Gb Ex tb III C Db IP66/68		

Approved for issue on behalf of the IECEx  
Certification Body:

**Mr. Mauro CASARI**

Position:

**IMQ ExCB Manager**

Signature:  
(for printed version)

Date:  
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting [www.iecex.com](http://www.iecex.com) or use of this QR Code.



Certificate issued by:

**Istituto Italiano del Marchio di Qualità S.p.A**  
Via Quintiliano 43  
20138 Milano  
Italy





# IECEx Certificate of Conformity

Certificate No.: **IECEx IMQ 15.0001X**

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Date of issue: 2022-06-01

Issue No: 4

Manufacturer: **Pepperl+Fuchs SE**  
Lilienthalstrasse 200  
68307 Mannheim  
Germany

Manufacturing  
locations: **Pepperl+Fuchs SE**  
Lilienthalstrasse 200  
68307 Mannheim  
Germany

**Pepperl+Fuchs SE**  
Bussmatten 10-12  
77815 Buehl/Baden  
Germany

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

## STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

[IEC 60079-31:2013](#) Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:2

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"  
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

## TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[IT/IMQ/ExTR15.0002/04](#)

Quality Assessment Report:

[DE/PTB/QAR06.0015/18](#)



# IECEx Certificate of Conformity

Certificate No.: **IECEx IMQ 15.0001X**

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Date of issue: 2022-06-01

Issue No: 4

## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The polyamide cable glands series CG.P \*\*\* . \*\* PA . \*\* are used to introduce permanently circular cables into enclosure.

Plugs series SP.PE. \*\* .PA. \*\* are used to close unused cable entry of an enclosure.

Cable glands and plugs are suitable for electrical equipment either with type of protection Ex-e or type of protection Ex-t. Cable glands should be also used for intrinsically safe circuits Ex-i.

Cable glands CG.P \* DS \* . \*\* PA . \*\* are provided with double (S1+S2) sealing rings.

Cable glands can be supplied with tap, polyamide made, as accessory (BP.P\* \*\*.PA.\*), suitable to guarantee IP degree when installed according to manufacturer's instructions.

Full details in Annex to Certificate.

## SPECIFIC CONDITIONS OF USE: YES as shown below:

- The cable glands are only suitable for fixed installations. Cables shall be effectively clamped to prevent pulling or twisting.
- The cable gland installation shall be done according to safety manufacturer instructions to maintain degree of protection.
- For gas installations (only for cable glands with M50/PG42/PF 1 1/2"/NPT 1 1/2" threads and following) and dust installations: Warning. Potential electrostatic charging hazard - See instructions. Clean only with antistatic clothes.
- When cable glands are installed with polyamide insert BP.P\* \*\*.PA.\* , mechanical risk have to be taken into account, depending on cable gland and insert tap. When insert tap is removed in order to install the proper cable, the integrity of sealing rings have to be checked, in order to guarantee the correct tightness. If necessary, sealing rings have to be replaced with new ones (original spare parts only)



# IECEx Certificate of Conformity

Certificate No.: **IECEx IMQ 15.0001X**

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Date of issue: 2022-06-01

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## DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

### Issue 4

Standard update to IEC 60079-0:2017 and IEC 60079-7:2017 Ed. 5.1

### Issue 3

New legal form

### Issue 2

Standard update to IEC 60079-7:2015 Ed. 5

Change of key code

Introduction of new colour (green) for protection tap BP.P\*.\*\*.PA.\*

Extension to -60°C for all cable glands sizes fitted with silicone sealing rings

### Issue 1

Standard update to IEC 60079-31:2013 ed. 2

Introductions of alternative of blue cap. Change of related key code, according to Table 2. The blue cap versions of cable glands are used for Ex i circuits

Introductions of alternative models serie CG.P \* 1 . \* PA . \* . \* and CG.P \* DS 1 . \* \* PA . \* . \* with bigger cap

## Annex:

[IECEx IMQ 15.0001X issue No. 4 Annex.pdf](#)

## General description

The polyamide cable glands series CG.P \* \* \* . \* \* PA . \* . \* are used to introduce permanently circular cables into enclosure.

Plugs series SP.PE . \* . \* . PA . \* . \* are used to close unused cable entry of an enclosure.

Cable glands and plugs are suitable for electrical equipment either with type of protection Ex e or type of protection Ex t. Cable glands should be also used for intrinsically safe circuits Ex i.

Cable glands CG.P \* DS . \* . \* PA . \* . \* are provided with double (S1+S2) sealing rings.

Cable glands can be supplied with tap, polyamide made, as accessory (BP.P\*.\*.PA.\*), suitable to guarantee IP degree when installed according to manufacturer's instructions.

Details on sealing rings material, flat washer (placed between the body and the cover of enclosures) materials and limitations are listed in Table 1.

Protection degree: IP66/68 (IPX8: 5 bar, 30 min)

Table 1: materials and service temperatures					
Series	Service temperature <sup>1</sup>	Sealing rings material	Flat washer materials	OR materials	Mechanical risk
CG.P_	-30 ÷ +70 °C	NBR	chloroprene (neoprene) silicone KLINGERSIL® C-4400 EPDM rubber NBR	chloroprene (neoprene) silicone EPDM rubber	High (7J)
	-40 ÷ +70 °C	chloroprene (neoprene)			
	-60 ÷ +70 °C	silicone			
CG.P_1,	-30 ÷ +70 °C	NBR	chloroprene (neoprene) silicone KLINGERSIL® C-4400 EPDM rubber NBR	chloroprene (neoprene) silicone EPDM rubber	High (7J)
	-40 ÷ +70 °C	chloroprene (neoprene)			
	-60 ÷ +70 °C	silicone			
CG.P_DS,	-30 ÷ +70 °C	NBR	chloroprene (neoprene) silicone KLINGERSIL® C-4400 EPDM rubber NBR	chloroprene (neoprene) silicone EPDM rubber	High (7J)
	-40 ÷ +70 °C	chloroprene (neoprene)			
	-60 ÷ +70 °C <sup>2</sup>	silicone			
CG.P_DS1,	-30 ÷ +70 °C	NBR	chloroprene (neoprene) silicone KLINGERSIL® C-4400 EPDM rubber NBR	chloroprene (neoprene) silicone EPDM rubber	High (7J)
	-40 ÷ +70 °C	chloroprene (neoprene)			
	-60 ÷ +70 °C	silicone			
SP.PE	-30 ÷ +70 °C	-	NBR	-	High (7J)
	-40 ÷ +70 °C		chloroprene (neoprene) EPDM rubber		
	-60 ÷ +70 °C		silicone		
	-60 ÷ +70 °C		KLINGERSIL® C-4400		
<b>Notes</b> <sup>1</sup> Service temperature is related to material of sealing rings and polyamide which cable glands body is made of, but can be additionally limited by material of flat washer/OR material temperature limitations: chloroprene (-40÷100 °C); silicone (-60÷180 °C); EPDM rubber (-40÷110 °C); KLINGERSIL® C-4400 fiber (-50÷130 °C). The use of these materials in flat washer/OR has to be taken into account in determination of lower limit of service temperature of cable glands. <sup>2</sup> When blue caps are used and/or BP - protection tap is used, the service temperature is -40÷70 °C. Low mechanical risk (4J)					

## Conditions of use

- The cable glands are only suitable for fixed installations. Cables shall be effectively clamped to prevent pulling or twisting.
- The cable gland installation shall be done according to safety manufacturer instructions to maintain degree of protection.
- For gas installations (only for cable glands with M50/PG42/PF 1 1/2"/NPT 1 1/2" threads and following) and dust installations: Warning. Potential electrostatic charging hazard - See instructions. Clean only with antistatic clothes.
- When cable glands are installed with polyamide insert BP.P\*. \*\*. PA. \*, mechanical risk have to be taken into account, depending on cable gland and insert tap. When insert tap is removed in order to install the proper cable, the integrity of sealing rings have to be checked, in order to guarantee the correct tightness. If necessary, sealing rings have to be replaced with new ones (original spare parts only).

## Design options

Model and torque table for CG.P***. ** PA. **.				
Model		Min-max cable [mm]	Torque value [Nm]	Mechanical risk
CG.P*.M12.PA.*.10	CG.P*1.M12.PA.*.10	4-6.5	2	High (7J)
CG.P*.M12.PA.*.15	CG.P*1.M12.PA.*.15	4-6.5	2	
CG.P*.M16S.PA.*.10	CG.P*1.M16S.PA.*.10	5-8	4	
CG.P*.M16S.PA.*.15	CG.P*1.M16S.PA.*.15	5-8	4	
CG.P*.M16.PA.*.10	CG.P*1.M16.PA.*.10	6-10	4	
CG.P*.M16.PA.*.15	CG.P*1.M16.PA.*.15	6-10	4	
CG.P*.M20S.PA.*.10	CG.P*1.M20S.PA.*.10	6-10	2.5	
CG.P*.M20.PA.*.10	CG.P*1.M20.PA.*.10	7-12	5	
CG.P*.M20.PA.*.15	CG.P*1.M20.PA.*.15	7-12	5	
CG.P*.M20L.PA.*.10	CG.P*1.M20L.PA.*.10	7-13	4.5	
CG.P*.M20XL.PA.*.10	CG.P*1.M20XL.PA.*.10	11-14	5.5	
CG.P*.M20XL.PA.*.15	CG.P*1.M20XL.PA.*.15	11-14	5.5	
CG.P*.M25S.PA.*.10	CG.P*1.M25S.PA.*.10	11-14	5.5	
CG.P*.M25S.PA.*.15	CG.P*1.M25S.PA.*.15	11-14	5.5	
CG.P*.M25.PA.*.10	CG.P*1.M25.PA.*.10	12-17	5	
CG.P*.M25.PA.*.15	CG.P*1.M25.PA.*.15	12-17	5	
CG.P*.M25L.PA.*.10	CG.P*1.M25L.PA.*.10	14-18	8	
CG.P*.M25L.PA.*.15	CG.P*1.M25L.PA.*.15	14-18	8	
CG.P*.M32S.PA.*.10	CG.P*1.M32S.PA.*.10	14-18	8	
CG.P*.M32.PA.*.10	CG.P*1.M32.PA.*.10	16-21	6	
CG.P*.M32.PA.*.15	CG.P*1.M32.PA.*.15	16-21	6	
CG.P*.M32L.PA.*.15	CG.P*1.M32L.PA.*.15	19-25	9	
CG.P*.M40.PA.*.10	CG.P*1.M40.PA.*.10	20-28	5	
CG.P*.M40.PA.*.15	CG.P*1.M40.PA.*.15	20-28	5	
CG.P*.M40L.PA.*.18	CG.P*1.M40L.PA.*.18	23-32	17.5	
CG.P*.M50.PA.*.18	CG.P*1.M50.PA.*.18	31-38	22	
CG.P*.M63.PA.*.18	CG.P*1.M63.PA.*.18	35-44	24	
CG.P*.NPT3/8.PA.*.10	CG.P*1.NPT3/8.PA.*.10	6-10	4	High (7J)
CG.P*.NPT1/2S.PA.*.10	CG.P*1.NPT1/2S.PA.*.10	6-10	2.5	
CG.P*.NPT1/2.PA.*.10	CG.P*1.NPT1/2.PA.*.10	7-12	5	
CG.P*.NPT1/2XL.PA.*.10	CG.P*1.NPT1/2XL.PA.*.10	11-14	5.5	
CG.P*.NPT3/4L.PA.*.10	CG.P*1.NPT3/4L.PA.*.10	14-18	8	
CG.P*.NPT1L.PA.*.15	CG.P*1.NPT1L.PA.*.15	19-25	9	
CG.P*.NPT1-1/4L.PA.*.18	CG.P*1.NPT1-1/4L.PA.*.18	23-32	17.5	
CG.P*.NPT1-1/2.PA.*.18	CG.P*1.NPT1-1/2.PA.*.18	31-38	22	
CG.P*.NPT2.PA.*.18	CG.P*1.NPT2.PA.*.18	35-44	24	



CG.P*.PG7.PA.*.10	CG.P*1.PG7.PA.*.10	4-6.5	2	High (7J)
CG.P*.PG9S.PA.*.10	CG.P*1.PG9S.PA.*.10	5-8	4	
CG.P*.PG11.PA.*.10	CG.P*1.PG11.PA.*.10	6-10	4	
CG.P*.PG13-1/2.PA.*.10	CG.P*1.PG13-1/2.PA.*.10	7-12	5	
CG.P*.PG16XL.PA.*.10	CG.P*1.PG16XL.PA.*.10	11-14	5.5	
CG.P*.PG21L.PA.*.10	CG.P*1.PG21L.PA.*.10	14-18	8	
CG.P*.PG29L.PA.*.15	CG.P*1.PG29L.PA.*.15	19-25	9	
CG.P*.PG36L.PA.*.18	CG.P*1.PG36L.PA.*.18	23-32	17.5	
CG.P*.PG42.PA.*.18	CG.P*1.PG42.PA.*.18	31-38	22	
CG.P*.PG48.PA.*.18	CG.P*1.PG48.PA.*.18	35-44	24	
CG.P*.PF3/8.PA.*.10	CG.P*1.PF3/8.PA.*.10	6-10	4	High (7J)
CG.P*.PF1/2S.PA.*.10	CG.P*1.PF1/2S.PA.*.10	6-10	2.5	
CG.P*.PF1/2.PA.*.10	CG.P*1.PF1/2.PA.*.10	7-12	5	
CG.P*.PF1/2XL.PA.*.10	CG.P*1.PF1/2XL.PA.*.10	11-14	5.5	
CG.P*.PF3/4L.PA.*.10	CG.P*1.PF3/4L.PA.*.10	14-18	8	
CG.P*.PF1L.PA.*.15	CG.P*1.PF1L.PA.*.15	19-25	9	

Model and torque table for CG.P * DS * . * * PA . * . *						
Model		Min-max cable [mm]		Torque value [Nm]		Mechanical risk
		S1+S2	S1	S1+S2	S1	
CG.P*DS.M12.PA.*.10	CG.P*DS1.M12.PA.*.10	3-4	4-6.5	1	2	High (7J)
CG.P*DS.M12.PA.*.15	CG.P*DS1.M12.PA.*.15	3-4	4-6.5	1	2	
CG.P*DS.M16S.PA.*.10	CG.P*DS1.M16S.PA.*.10	4-5	5-8	3.5	4	
CG.P*DS.M16S.PA.*.15	CG.P*DS1.M16S.PA.*.15	4-5	5-8	3.5	4	High (7J)
CG.P*DS.M16.PA.*.10	CG.P*DS1.M16.PA.*.10	4-7	6-10	3.5	4	
CG.P*DS.M16.PA.*.15	CG.P*DS1.M16.PA.*.15	4-7	6-10	3.5	4	
CG.P*DS.M20S.PA.*.10	CG.P*DS1.M20S.PA.*.10	4-7	6-10	3.2	2.5	
CG.P*DS.M20.PA.*.10	CG.P*DS1.M20.PA.*.10	6-8.5	7-12	5	5	
CG.P*DS.M20.PA.*.15	CG.P*DS1.M20.PA.*.15	6-8.5	7-12	5	5	
CG.P*DS.M20L.PA.*.10	CG.P*DS1.M20L.PA.*.10	4-7	7-13	3.5	4.5	
CG.P*DS.M20XL.PA.*.10	CG.P*DS1.M20XL.PA.*.10	8-12	11-14	5.5	5.5	
CG.P*DS.M20XL.PA.*.15	CG.P*DS1.M20XL.PA.*.15	8-12	11-14	5.5	5.5	
CG.P*DS.M25S.PA.*.10	CG.P*DS1.M25S.PA.*.10	8-12	11-14	5.5	5.5	
CG.P*DS.M25S.PA.*.15	CG.P*DS1.M25S.PA.*.15	8-12	11-14	5.5	5.5	
CG.P*DS.M25.PA.*.10	CG.P*DS1.M25.PA.*.10	9-13	12-17	5	5	
CG.P*DS.M25.PA.*.15	CG.P*DS1.M25.PA.*.15	9-13	12-17	5	5	
CG.P*DS.M25L.PA.*.10	CG.P*DS1.M25L.PA.*.10	10-14	14-18	5.5	8	
CG.P*DS.M25L.PA.*.15	CG.P*DS1.M25L.PA.*.15	10-14	14-18	5.5	8	
CG.P*DS.M32S.PA.*.10	CG.P*DS1.M32S.PA.*.10	10-14	14-18	5.5	8	High (7J)
CG.P*DS.M32.PA.*.10	CG.P*DS1.M32.PA.*.10	12-16	16-21	4.5	6	
CG.P*DS.M32.PA.*.15	CG.P*DS1.M32.PA.*.15	12-16	16-21	4.5	6	
CG.P*DS.M32L.PA.*.15	CG.P*DS1.M32L.PA.*.15	14-20	19-25	8	9	
CG.P*DS.M40.PA.*.10	CG.P*DS1.M40.PA.*.10	17-21	20-28	5	5	
CG.P*DS.M40.PA.*.15	CG.P*DS1.M40.PA.*.15	17-21	20-28	5	5	
CG.P*DS.M40L.PA.*.18	CG.P*DS1.M40L.PA.*.18	21-26	23-32	15	17.5	
CG.P*DS.M50.PA.*.18	CG.P*DS1.M50.PA.*.18	22-31	31-38	18	22	
CG.P*DS.M63.PA.*.18	CG.P*DS1.M63.PA.*.18	28-35	35-44	22	24	
CG.P*DS.NPT3/8.PA.*.10	CG.P*DS1.NPT3/8.PA.*.10	4-7	6-10	3.5	4	High (7J)
CG.P*DS.NPT1/2S.PA.*.10	CG.P*DS1.NPT1/2S.PA.*.10	4-7	6-10	3.2	2.5	
CG.P*DS.NPT1/2.PA.*.10	CG.P*DS1.NPT1/2.PA.*.10	6-8.5	7-12	5	5	
CG.P*DS.NPT1/2XL.PA.*.10	CG.P*DS1.NPT1/2XL.PA.*.10	8-12	11-14	5.5	5.5	
CG.P*DS.NPT3/4L.PA.*.10	CG.P*DS1.NPT3/4L.PA.*.10	10-14	14-18	5.5	8	
CG.P*DS.NPT1L.PA.*.15	CG.P*DS1.NPT1L.PA.*.15	14-20	19-25	8	9	High (7J)
CG.P*DS.NPT1-1/4L.PA.*.18	CG.P*DS1.NPT1-1/4L.PA.*.18	21-26	23-32	15	17.5	
CG.P*DS.NPT1-1/2L.PA.*.18	CG.P*DS1.NPT1-1/2L.PA.*.18	22-31	31-38	18	22	
CG.P*DS.NPT2.PA.*.18	CG.P*DS1.NPT2.PA.*.18	28-35	35-44	22	24	
CG.P*DS.PG7.PA.*.10	CG.P*DS1.PG7.PA.*.10	3-4	4-6.5	1	2	High (7J)
CG.P*DS.PG9S.PA.*.10	CG.P*DS1.PG9S.PA.*.10	4-5	5-8	3.5	4	High (7J)

CG.P*DS.PG11.PA.*.10	CG.P*DS1.PG11.PA.*.10	4-7	6-10	3.5	4	
CG.P*DS.PG13-1/2.PA.*.10	CG.P*DS1.PG13-1/2.PA.*.10	6-8.5	7-12	5	5	
CG.P*DS.PG16XL.PA.*.10	CG.P*DS1.PG16XL.PA.*.10	8-12	11-14	5.5	5.5	
CG.P*DS.PG21L.PA.*.10	CG.P*DS1.PG21L.PA.*.10	10-14	14-18	5.5	8	
CG.P*DS.PG29L.PA.*.15	CG.P*DS1.PG29L.PA.*.15	14-20	19-25	8	9	High (7J)
CG.P*DS.PG36L.PA.*.18	CG.P*DS1.PG36L.PA.*.18	21-26	23-32	15	17.5	
CG.P*DS.PG42.PA.*.18	CG.P*DS1.PG42.PA.*.18	22-31	31-38	18	22	
CG.P*DS.PG48.PA.*.18	CG.P*DS1.PG48.PA.*.18	28-35	35-44	22	24	
CG.P*DS.PF3/8.PA.*.10	CG.P*DS1.PF3/8.PA.*.10	4-7	6-10	3.5	4	High (7J)
CG.P*DS.PF1/2S.PA.*.10	CG.P*DS1.PF1/2S.PA.*.10	4-7	6-10	3.2	2.5	
CG.P*DS.PF1/2.PA.*.10	CG.P*DS1.PF1/2.PA.*.10	6-8.5	7-12	5	5	
CG.P*DS.PF1/2XL.PA.*.10	CG.P*DS1.PF1/2XL.PA.*.10	8-12	11-14	5.5	5.5	
CG.P*DS.PF3/4L.PA.*.10	CG.P*DS1.PF3/4L.PA.*.10	10-14	14-18	5.5	8	High (7J)
CG.P*DS.PF1L.PA.*.15	CG.P*DS1.PF1L.PA.*.15	14-20	19-25	8	9	

Model and torque table for SP.PE									
Model					Torque value [Nm]				
SP.PE.M12.PA.C.10	M12	SP.PE.NPT1/4.PA.C.10	NPT 1/4"	SP.PE.PF1/4.PA.C.10	PF 1/4"	1.5±0.2	SP.PE.PG7.PA.C.10	PG7	1.5±0.2
SP.PE.M16.PA.C.11	M16	-	-	SP.PE.PF3/8.PA.C.11	PF 3/8"	1.5±0.5	SP.PE.PG9.PA.C.11	PG9	1.5±0.5
SP.PE.M16.PA.C.12	M16	-	-	SP.PE.PF3/8.PA.C.12	PF 3/8"	1.5±0.5	SP.PE.PG9.PA.C.12	PG9	1.5±0.5
SP.PE.M16.PA.C.15	M16	SP.PE.NPT3/8.PA.C.15	NPT 3/8"	SP.PE.PF3/8.PA.C.15	PF 3/8"	1.5±0.5	SP.PE.PG9.PA.C.15	PG9	1.5±0.5
SP.PE.M20.PA.C.11	M20	-	-	SP.PE.PF1/2.PA.C.11	PF 1/2"	2.0±0.5	SP.PE.PG11.PA.C.11	PG11	1.5±0.5
SP.PE.M20.PA.C.12	M20	-	-	SP.PE.PF1/2.PA.C.12	PF 1/2"	2.0±0.5	SP.PE.PG13.5.PA.C.11	PG13.5	2.0±0.5
SP.PE.M20.PA.C.15	M20	SP.PE.NPT1/2.PA.C.15	NPT 1/2"	SP.PE.PF1/2.PA.C.15	PF 1/2"	2.0±0.5	SP.PE.PG13.5.PA.C.12	PG13.5	2.0±0.5
SP.PE.M25.PA.C.10	M25	-	-	SP.PE.PF3/4.PA.C.10	PF 3/4"	2.5±0.5	SP.PE.PG13.5.PA.C.15	PG13.5	2.0±0.5
SP.PE.M25.PA.C.15	M25	SP.PE.NPT3/4.PA.C.15	NPT 3/4"	SP.PE.PF3/4.PA.C.15	PF 3/4"	2.5±0.5	SP.PE.PG16.PA.C.11	PG16	2.0±0.5
SP.PE.M32.PA.C.15	M32	SP.PE.NPT1.PA.C.15	NPT 1"	SP.PE.PF1.PA.C.15	PF 1"	4.0±1.0	SP.PE.PG21.PA.C.10	PG21	2.5±0.5
SP.PE.M40.PA.C.18	M40	SP.PE.NPT1-1/4.PA.C.18	NPT 1 1/4"	SP.PE.PF1-1/4.PA.C.18	PF 1 1/4"	6.0±1.0	SP.PE.PG21.PA.C.15	PG21	2.5±0.5
SP.PE.M50.PA.C.18	M50	SP.PE.NPT1-1/2.PA.C.18	NPT 1 1/2"	SP.PE.PF1-1/2.PA.C.18	PF 1 1/2"	8.0±1.5	SP.PE.PG29.PA.C.15	PG29	4.0±1.0
SP.PE.M63.PA.C.18	M63	SP.PE.NPT2.PA.C.18	NPT 2"	SP.PE.PF2.PA.C.18	PF 2"	10.0±1.5	SP.PE.PG36.PA.C.18	PG36	6.0±1.0
-	-	-	-	-	-	-	SP.PE.PG42.PA.C.18	PG42	8.0±1.5
-	-	-	-	-	-	-	SP.PE.PG48.PA.C.18	PG48	10.0±1.5

Model and torque table for BP..				
From size ...	... to size	Material	Mechanical risk	Sealing ring
M12/PG7/PF 1/4" / NPT1/4"	M63/PG48/PF 2" / NPT 2"	polyamide	High (7J) at T≥-40°C Low (4J) at T<-40°C	Single
M12/PG7/PF 1/4" / NPT1/4"	M32/PG21/PF 1" / NPT 1"		High (7J) at T≥-40°C	Double
M32/PG21/PF 1" / NPT 1"	M63/PG48/PF 2" / NPT 2"		High (7J) at T≥-40°C Low (4J) at T<-40°C	

Key code:

Identification of Polyamide Cable Glands									
CG.P	1	2	3	4	5	PA	6	7	
									1 The color of the cap
									E : Black cap I : Blue cap
									2 Type of Seal of the gland
									None : Single seal DS : Double seal
									3 Type of the cap
									None : Normal cap 1 : Big cap
									4 Thread type
									NPT : NPT ANSI ASME B1.20.1 M : Metric UNI ISO 261 PG : PG DIN 40430 (Ex-e only) PF : GAS UNI ISO 228-1
									5 Size and dimension
									according to related tables
									6 Sealing material
									C : Chloroprene S : Silicone N : NBR
									7 Thread Length
									min. thread length (mm)

Identification of Polyamide Blindplugs									
SP.PE	1	2	PA	3	4				
									1 Thread type
									NPT : NPT ANSI ASME B1.20.1 M : Metric UNI ISO 261 PG : PG DIN 40430 (Ex-e only) PF : GAS UNI ISO 228-1
									2 Size and dimension
									according to related tables
									3 Sealing material
									C : Chloroprene S : Silicone N : NBR
									4 Thread Length
									min. thread length (mm)

Identification of Protection tap									
BP.P	1	2	3	PA	4				
									1 Type of tap
									None : Single seal DS : Double seal
									2 Thread type of cable gland which the tap is mounted on
									M : Metric UNI ISO 261
									3 Size and dimensions
									according to related tables
									4 Color
									BK : Black GN : Green