

# Cable Glands, Metal, for Flexible Conduits

CG.CO.\*.\*.\*

- For cables without armor
- Brass nickel-plated or stainless steel
- Metric and NPT versions available
- Ex db, Ex eb and Ex tb certified
- Suitable for operation in Zone 1, Zone 2, Zone 21 and Zone 22
- Connection of flexible metallic conduits



## Function

The metal cable glands type CG.CO can be used indoor and outdoor in Zone 1, Zone 2, Zone 21 and Zone 22 hazardous areas. They are intended for use with non-armored cables which are protected in flexible metallic conduits.

## Technical Data

### Mechanical specifications

Cable type	non-armored cables in flexible conduit
Clamping range (D)	see data table
Thread type	metric ISO pitch 1.5 mm or NPT ANSI ASME B1.20.1
Thread size (TD)	see data table
Degree of protection	IP66 / IP68
Material	
Finish	inherent color silver
Cable gland	brass nickel-plated or AISI 316 (1.4401) stainless steel
Washer gasket	aramid fibers bonded with NBR
O-Ring	chloroprene / neoprene or silicone
Seal insert	chloroprene / neoprene or silicone
Mass	see data table
Dimensions	see data table

### Ambient conditions

Ambient temperature	Ex eb and Ex tb versions: chloroprene seal: -40 ... 80 °C (-40 ... 176 °F) silicone seal: -60 ... 140 °C (-76 ... 284 °F) washer gasket: -50 ... 80 °C (-58 ... 176 °F) Ex db versions: chloroprene seal: -40 ... 80 °C (-40 ... 176 °F) silicone seal: -60 ... 80 °C (-76 ... 176 °F) washer gasket: -50 ... 80 °C (-58 ... 176 °F) Service temperature might be limited by the use of sealing plugs or washer gaskets.
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### Data for application in connection with hazardous areas

EU-type examination certificate	IMQ 14 ATEX 012X
Marking	Ⓢ II 2 GD Ex db IIC Gb Ex eb IIC Gb Ex tb IIIC Db

### International approvals

IECEX approval	IECEX IMQ 14.0004X
UKCA approval	CML 21 UKEX 11380X
INMETRO approval	DNV 20.0029 X

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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**PEPPERL+FUCHS**

## Technical Data

CCC approval	2021312313000344
<b>Conformity</b>	
Degree of protection	EN 60529
CE marking	0102
<b>General information</b>	
Scope of delivery	K01 - metric variants, individual component: Cable gland , washer gasket , locknut , Earth tag , Brief instructions K01 - NPT variants, individual component: Cable gland , Brief instructions Knn - packing unit with multiple components: Cable glands , Brief instructions (1 copy)
Supplementary information	EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For information see <a href="http://www.pepperl-fuchs.com">www.pepperl-fuchs.com</a> .

## Type Code

<b>1</b>		<b>2</b>		<b>3</b>		<b>4</b>		<b>5</b>		<b>6</b>		<b>7</b>
CG	.	CO	.	***	.	**	.	*	.	**	.	K**
CG	.	CO	.	M20	.	BN	.	C	.	16	.	K01

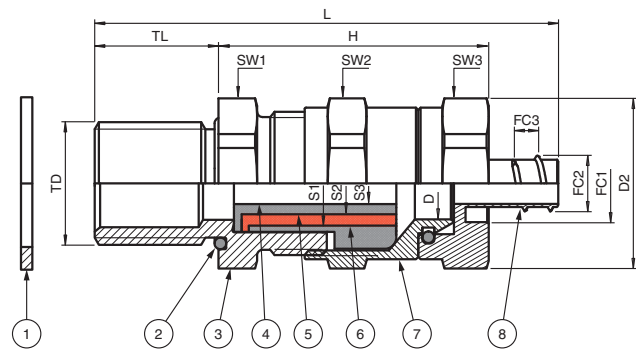
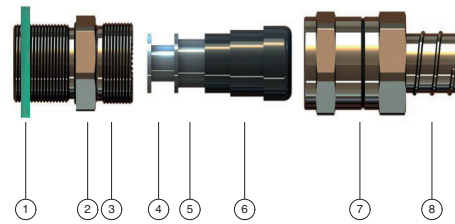
Example: CG.CO.M20.BN.C.16.K01

Cable gland metal, for flexible metallic conduits, thread size M20, body brass nickel-plated, chloroprene seals for -40 °C ... 80 °C, installation thread length 16 mm, one piece

<b>1</b>	<b>Series</b>
CG	cable glands
<b>2</b>	<b>Type</b>
CO	metal, for non-armored cables in flexible metallic conduits
<b>3</b>	<b>Thread, type and size</b>
M*	metric ISO pitch 1.5; sizes see dimensions data table
NPT*	NPT ANSI ASME B1.20.1; sizes see dimensions data table
<b>4</b>	<b>Material</b>
BN	brass nickel-plated
SS	stainless steel
<b>5</b>	<b>Material seals / O-Ring</b>
C	chloroprene / neoprene
S	silicone
<b>6</b>	<b>Thread length for installation in enclosure</b>
**	length in mm
<b>7</b>	<b>Packaging unit</b>
	units not packaged, for use in Pepperl+Fuchs Solution Engineering Centers
K**	units quantity per package

**Dimensions**

Legend	
1	Washer gasket (accessory)
2	O-Ring
3	Gland body basis
4	Seal insert S3
5	Seal insert S2
6	Seal insert S1
7	Connection body
8	Connection for flexible conduit
D	Clamping range, cable sheath diameter
D2	Width across corners
FC1	Flexible conduit, max. outer diameter
FC2	Flexible conduit, inner diameter
FC3	Flexible conduit, corrugation size
H	Length outside enclosure
L	Total length
S*	Clamping range, seal insert combinations
SW*	Width across flats
TD	Thread size
TL	Thread length



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## Dimensions Metric - Brass Nickel-plated

Type	Thread size	Clamping range [mm] seal insert combinations				Dimensions [mm]						
	TD	D	S1+S2+S3	S1+S2	S1	H	L	TL	D2	SW1	SW2	SW3
CG.CO.M16S.BN.C.16.*	M16	3 ... 9	-	3 ... 6	6 ... 9	36	61	16	22	20	20	20
CG.CO.M16.BN.C.16.*	M16	4 ... 12	4 ... 6	6 ... 9	9 ... 12	43	72	16	26.5	22	24	24
CG.CO.M20.BN.C.16.*	M20	4 ... 12	4 ... 6	6 ... 9	9 ... 12	39	68	16	26.5	22	24	24
CG.CO.M25.BN.C.16.*	M25	10 ... 18	10 ... 12	12 ... 14.5	14.5 ... 18	42	73	16	31.5	28	29	29
CG.CO.M32.BN.C.16.*	M32	14 ... 24	14 ... 17	17 ... 20	20 ... 24	46	82	16	39.8	35	36	36
CG.CO.M40.BN.C.18.*	M40	22 ... 32	22 ... 24	24 ... 27	27 ... 32	54	92	18	50	45	45	45
CG.CO.M50.BN.C.18.*	M50	26 ... 35	26 ... 28	28 ... 31	31 ... 35	59.5	98	18	61	55	52	52
CG.CO.M63.BN.C.18.*	M63	35 ... 45	35 ... 38	38 ... 41	41 ... 45	58.5	96.5	18	75	68	65	65
CG.CO.M75.BN.C.20.*	M75	46 ... 59	46 ... 51	51 ... 57	57 ... 59	69	111	20	89	80	80	80

## Details and Accessories Metric - Brass Nickel-plated

Type	Thread size	Mass approx.		Diameter thru-hole [mm]	Flexible conduit [mm]			Nut torques [Nm] seal insert combinations				Delivery quantity
	TD	Component	Packaging unit	DT	FC1	FC2	FC3	SW1	SW2 S1+S2+S3	SW2 S1+S2	SW2 S1	
CG.CO.M16S.BN.C.16.K01	M16	64 g	86 g	16 ... 16.2	10	6.1	3.3	4	#NV	25	18	1
CG.CO.M16.BN.C.16.K01	M16	70 g	95 g	16 ... 16.2	22.2	15	4.5	4	20	18	16	1
CG.CO.M16.BN.C.16.K15	M16	70 g	1.16 kg	16 ... 16.2	22.2	15	4.5	4	20	18	16	15
CG.CO.M20.BN.C.16.K01	M20	88 g	112 g	20 ... 20.2	22.2	15	4.5	5.5	20	18	15	1
CG.CO.M20.BN.C.16.K15	M20	88 g	1.45 kg	20 ... 20.2	22.2	15	4.5	5.5	20	18	15	15
CG.CO.M25.BN.C.16.K01	M25	100 g	145 g	25 ... 25.2	27.5	20	4.5	6	25	22	18	1
CG.CO.M25.BN.C.16.K10	M25	100 g	1.1 kg	25 ... 25.2	27.5	20	4.5	6	25	22	18	10
CG.CO.M32.BN.C.16.K01	M32	126 g	170 g	32 ... 32.3	34.5	25.7	6	6	28	23	20	1
CG.CO.M32.BN.C.16.K10	M32	126 g	1.39 kg	32 ... 32.3	34.5	25.7	6	6	28	23	20	10
CG.CO.M40.BN.C.18.K01	M40	141 g	190 g	40 ... 40.3	43	34.2	6	12	56	50	45	1
CG.CO.M40.BN.C.18.K05	M40	141 g	780 g	40 ... 40.3	43	34.2	6	12	56	50	45	5
CG.CO.M50.BN.C.18.K01	M50	352 g	475 g	50 ... 50.3	49.5	39.2	6	18	57	55	52	1
CG.CO.M50.BN.C.18.K02	M50	352 g	770 g	50 ... 50.3	49.5	39.2	6	18	57	55	52	2
CG.CO.M63.BN.C.18.K01	M63	468 g	632 g	63 ... 63.3	62.5	50	6	25	190	155	140	1
CG.CO.M63.BN.C.18.K02	M63	468 g	1.03 kg	63 ... 63.3	62.5	50	6	25	190	155	140	2
CG.CO.M75.BN.C.20.K01	M75	885 g	1.19 kg	75 ... 75.3	75	61.6	6.5	30	185	175	150	1
CG.CO.M75.BN.C.20.K02	M75	885 g	1.95 g	75 ... 75.3	75	61.6	6.5	30	185	175	150	2

\*Knn: scope of delivery see table technical data

## Dimensions NPT - Brass Nickel-plated

Type	Thread size	Clamping range [mm] seal insert combinations				Dimensions [mm]						
	TD	D	S1+S2+S3	S1+S2	S1	H	L	TL	D2	SW1	SW2	SW3
CG.CO.NPT3/8.BN.C.16.*	NPT 3/8"	4 ... 12	4 ... 6	6 ... 9	9 ... 12	43	72	16	26.5	22	24	24
CG.CO.NPT1/2.BN.C.16.*	NPT 1/2"	4 ... 12	4 ... 6	6 ... 9	9 ... 12	39	68	16	26.5	24	24	24
CG.CO.NPT3/4.BN.C.16.*	NPT 3/4"	10 ... 18	10 ... 12	12 ... 14.5	14.5 ... 18	41.5	72.5	16	31.5	28	29	29
CG.CO.NPT1.BN.C.20.*	NPT 1"	14 ... 24	14 ... 17	17 ... 20	20 ... 24	46	86	20	39.8	35	36	36
CG.CO.NPT1-1/4.BN.C.20.*	NPT 1-1/4"	22 ... 32	22 ... 24	24 ... 27	27 ... 32	54	94	20	50	45	45	45
CG.CO.NPT1-1/2.BN.C.20.*	NPT 1-1/2"	26 ... 35	26 ... 28	28 ... 31	31 ... 35	59.5	100	20	61	55	52	52
CG.CO.NPT2.BN.C.20.*	NPT 2"	35 ... 45	35 ... 38	38 ... 41	41 ... 45	58.5	98.5	20	75	68	65	65

## Details and Accessories NPT - Brass Nickel-plated

Type	Thread size	Mass approx.		Diameter thru-hole [mm]	Flexible conduit [mm]			Nut torques [Nm] seal insert combinations				Delivery quantity
	TD	Component	Packaging unit	DT	FC1	FC2	FC3	SW1	SW2 S1+S2+S3	SW2 S1+S2	SW2 S1	
CG.CO.NPT3/8.BN.C.16.K01	NPT 3/8"	48 g	58 g	17.2 ... 17.4	22.2	15	4.5	3	20	18	16	1
CG.CO.NPT3/8.BN.C.16.K15	NPT 3/8"	48 g	790 g	17.2 ... 17.4	22.2	15	4.5	3	20	18	16	15
CG.CO.NPT1/2.BN.C.16.K01	NPT 1/2"	90 g	108 g	21.4 ... 21.6	22.2	15	4.5	4	20	18	15	1
CG.CO.NPT1/2.BN.C.16.K15	NPT 1/2"	90 g	1.49 kg	21.4 ... 21.6	22.2	15	4.5	4	20	18	15	15
CG.CO.NPT3/4.BN.C.16.K01	NPT 3/4"	106 g	116 g	26.7 ... 26.9	27.5	20	4.5	5.5	25	22	18	1
CG.CO.NPT3/4.BN.C.16.K10	NPT 3/4"	106 g	1.17 kg	26.7 ... 26.9	27.5	20	4.5	5.5	25	22	18	10
CG.CO.NPT1.BN.C.20.K01	NPT 1"	127 g	137 g	33.5 ... 33.7	34.5	25.7	6	8	28	23	20	1
CG.CO.NPT1.BN.C.20.K10	NPT 1"	127 g	1.4 kg	33.5 ... 33.7	34.5	25.7	6	8	28	23	20	10
CG.CO.NPT1-1/4.BN.C.20.K01	NPT 1-1/4"	142 g	152 g	42.2 ... 42.4	43	34.2	6	9	56	50	45	1
CG.CO.NPT1-1/4.BN.C.20.K05	NPT 1-1/4"	142 g	780 g	42.2 ... 42.4	43	34.2	6	9	56	50	45	5
CG.CO.NPT1-1/2.BN.C.20.K01	NPT 1-1/2"	362 g	372 g	48.3 ... 48.5	49.5	39.2	6	10	57	55	52	1
CG.CO.NPT1-1/2.BN.C.20.K02	NPT 1-1/2"	362 g	800 g	48.3 ... 48.5	49.5	39.2	6	10	57	55	52	2
CG.CO.NPT2.BN.C.20.K01	NPT 2"	468 g	478 g	60.4 ... 60.7	62.5	50	6	16	190	155	140	1
CG.CO.NPT2.BN.C.20.K02	NPT 2"	436 g	1.03 kg	60.4 ... 60.7	62.5	50	6	16	190	155	140	2

\*Knn: scope of delivery see table technical data