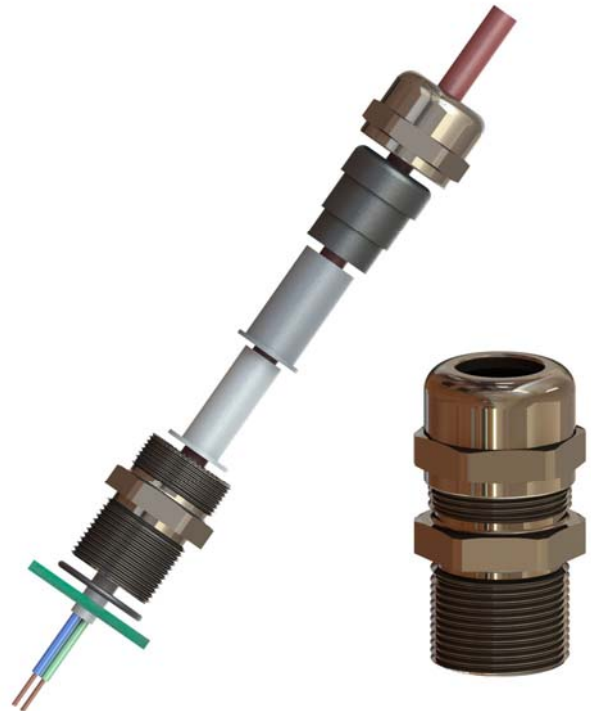


Features

- Cable gland series for non-armored cables
- Brass nickel-plated or stainless steel AISI 316
- Suitable for operation in Zones 1, 2, 21 and 22
- Certified Ex d, Ex e and Ex tb
- Metric and NPT versions available

Assembly



Function

The metal cable glands type CG.NA 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 elastomer and plastic insulated cables providing a combined flameproof seal and environmental seal on the cable outer sheath.

Type code / model number

Series

CG	cable glands						
:	Type						
:	NA	metal glands for non-armored cables					
:	:	Thread					
:	:	M*	metric ISO pitch 1.5; sizes see dimensions data table				
:	:	NPT*	NPT ANSI ASME B1.20.1; sizes see dimensions data table				
:	:	:	Material				
:	:	:	BN	brass nickel-plated			
:	:	:	SS	stainless steel			
:	:	:	:	Material Seals / O-Ring			
:	:	:	:	C	chloroprene / neoprene		
:	:	:	:	S	silicone		
:	:	:	:	Thread length for installation in enclosure			
:	:	:	:	:	**	length in mm	
:	:	:	:	:	:	Packaging unit	
:	:	:	:	:	:	K**	units quantity per package

CG	.xx	.xxx	.xx	.x	.nn	.Knn	
CG	.NA	.M20	.BN	.C	.16	.K01	Example

Example: Cable gland metal, for non-armored cables, thread size M20, body brass nickel-plated, chloroprene seals for -40 °C ... 80 °C, installation thread length 16 mm, one piece

Release date 2016-11-25 T171443

Technical Data**Mechanical Specification**

Dimensions	see dimensions data table
Protection degree	IP66 / IP68
Cable type	non-armored cables
Clamping range	see dimensions data table
Thread types	metric or NPT, see dimensions data table

Material

Cable Gland	brass nickel-plated or AISI 316 (1.4401) stainless steel
Seals	chloroprene / neoprene or silicone
Washer gasket	aramid fibers bonded with NBR, see accessories
Mass	see dimensions data table

Ambient conditions

Ambient temperature	Ex e and Ex tb versions: chloroprene seals: -40 ... 80 °C (-40 ... 176 °F) silicone seals: -60 ... 140 °C (-76 ... 284 °F) washer gasket: -50 ... 140 °C (-58 ... 284 °F) Ex d versions: chloroprene seals: -40 ... 80 °C (-40 ... 176 °F) silicone seals: -60 ... 80 °C (-76 ... 176 °F) washer gasket: -50 ... 80 °C (-58 ... 176 °F)
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Data for application in connection with Ex-areas

EC-Type Examination Certificate	IMQ 14ATEX012X
Group, category, type of protection	⊕ II 2 GD Ex d IIC Gb Ex e IIC Gb Ex tb IIIC Db

International approvals

IECEX approval	IECEX IMQ 14.0004X
EAC approval	TC RU C-TR.GB05.B.00918

Conformity

Protection degree	EN 60529
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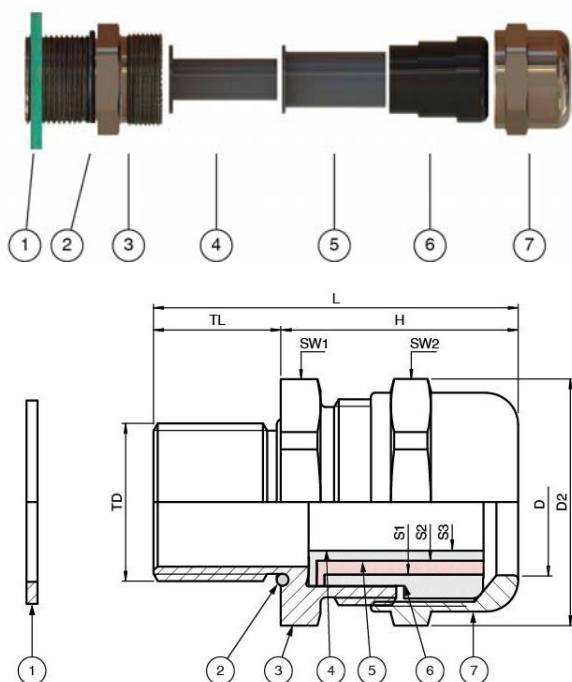
General information

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 www.pepperl-fuchs.com .
Scope of delivery	units quantity per package: see data tables metric versions: washer gasket, locknut, earth tag, shroud PVC NPT versions: shroud PVC

Accessories

Washer gasket, NBR-bonded aramid fibers	type code: SEAL M* FI * = thread size
Sealing plug	type code: BP.* details see data tables

Dimensions



Legend CG.NA.*

- 1 - Washer gasket (accessory)
 - 2 - O-Ring
 - 3 - Gland body basis
 - 4 - Seal insert S3
 - 5 - Seal insert S2
 - 6 - Seal insert S1
 - 7 - Cap nut
-
- D - Clamping range, cable sheath diameter
 - D2 - Width across corners
 - H - Length outside enclosure
 - L - Total length
 - S* - Clamping range, seal insert combinations
 - SW* - Width across flats
 - TD - Thread size
 - TL - Thread length

For details see dimensions data table

Dimensions Metric

Type (1)	Thread	Clamping Range [mm] (3)				Dimensions [mm]					
		TD (2)	D	S1+S2+S3	S1+S2	S1	H min.	L	TL	D2	SW1
CG.NA.M16.BN.C.16.K01	M16	4 ... 12	4 ... 6	6 ... 9	9 ... 12	24	40	16	24.5	22	22
CG.NA.M20.BN.C.16.K01	M20	10 ... 16	10 ... 12	12 ... 14.5	14.5 ... 16	29	45	16	31	28	28
CG.NA.M20S.BN.C.16.K01	M20	4 ... 12	4 ... 6	6 ... 9	9 ... 12	24	40	16	24.5	22	24
CG.NA.M25.BN.C.16.K01	M25	14 ... 20	14 ... 17	17 ... 20	-	34	50	16	39	35	35
CG.NA.M25S.BN.C.16.K01	M25	10 ... 18	10 ... 12	12 ... 14.5	14.5 ... 18	24	40	16	31	28	28
CG.NA.M32S.BN.C.16.K01	M32	14 ... 24	14 ... 17	17 ... 20	20 ... 24	27	43	16	39	35	35
CG.NA.M40S.BN.C.18.K01	M40	22 ... 32	22 ... 24	24 ... 27	27 ... 32	27	45	18	49.5	45	45
CG.NA.M50.BN.C.18.K01	M50	35 ... 44	35 ... 38	38 ... 41	41 ... 44	45	63	18	70	64	64
CG.NA.M50S.BN.C.18.K01	M50	26 ... 35	26 ... 28	28 ... 31	31 ... 35	28	46	18	56	55	50
CG.NA.M63.BN.C.18.K01	M63	46 ... 56	46 ... 48	48 ... 52	52 ... 56	44	62	18	89	75	80
CG.NA.M63S.BN.C.18.K01	M63	35 ... 45	35 ... 38	38 ... 41	41 ... 45	35	53	18	70	68	64
CG.NA.M16.SS.C.16.K01	M16	4 ... 12	4 ... 6	6 ... 9	9 ... 12	24	40	16	24.5	22	22
CG.NA.M20.SS.C.16.K01	M20	10 ... 16	10 ... 12	12 ... 14.5	14.5 ... 16	29	45	16	31	28	28
CG.NA.M20S.SS.C.16.K01	M20	4 ... 12	4 ... 6	6 ... 9	9 ... 12	24	40	16	24.5	22	24
CG.NA.M25.SS.C.16.K01	M25	14 ... 20	14 ... 17	17 ... 20	-	34	50	16	39	35	35
CG.NA.M25S.SS.C.16.K01	M25	10 ... 18	10 ... 12	12 ... 14.5	14.5 ... 18	24	40	16	31	28	28
CG.NA.M32S.SS.C.16.K01	M32	14 ... 24	14 ... 17	17 ... 20	20 ... 24	27	43	16	39	35	35
CG.NA.M40S.SS.C.18.K01	M40	22 ... 32	22 ... 24	24 ... 27	27 ... 32	27	45	18	49.5	45	45
CG.NA.M50.SS.C.18.K01	M50	35 ... 44	35 ... 38	38 ... 41	41 ... 44	45	63	18	70	64	64
CG.NA.M50S.SS.C.18.K01	M50	26 ... 35	26 ... 28	28 ... 31	31 ... 35	28	46	18	56	55	50
CG.NA.M63.SS.C.18.K01	M63	46 ... 56	46 ... 48	48 ... 52	52 ... 56	44	62	18	89	75	80
CG.NA.M63S.SS.C.18.K01	M63	35 ... 45	35 ... 38	38 ... 41	41 ... 45	35	53	18	70	68	64

(1) = details see type code table, BN = brass nickel-plated, SS = stainless steel

(2) = M* metric ISO pitch 1.5 mm, NPT* ANSI ASME B1.20.1

(3) = note various seal insert combinations

Details and Accessories Metric

Type (1)	Thread	Mass [g]	Nut torques [Nm] (3)				Sealing plug	Qty.
			SW1	SW2 (S1+S2+S3)	SW2 (S1+S2)	SW2 (S1)		
	TD (2)					Type code (5)	(4)	
CG.NA.M16.BN.C.16.K01	M16	51	4	20	18	16	BP.NA.M16-M20S.PA	1
CG.NA.M20.BN.C.16.K01	M20	65	6	25	22	18	BP.NA.M20-M25S.PA	1
CG.NA.M20S.BN.C.16.K01	M20	48	5.5	20	18	16	BP.NA.M16-M20S.PA	1
CG.NA.M25.BN.C.16.K01	M25	116	6	28	23	-	BP.NA.M25-M32S.PA	1
CG.NA.M25S.BN.C.16.K01	M25	73	6	25	22	18	BP.NA.M20-M25S.PA	1
CG.NA.M32S.BN.C.16.K01	M32	115	6	28	23	20	BP.NA.M25-M32S.PA	1
CG.NA.M40S.BN.C.18.K01	M40	211	12	56	50	45	BP.NA.M32-M40S.PA	1
CG.NA.M50.BN.C.18.K01	M50	438	18	190	155	140	BP.NA.M50-M63S.PA	1
CG.NA.M50S.BN.C.18.K01	M50	327	18	57	55	52	BP.NA.M40-M50S.PA	1
CG.NA.M63.BN.C.18.K01	M63	716	25	160	145	135	BP.NA.M63-M75S.PA	1
CG.NA.M63S.BN.C.18.K01	M63	468	25	190	155	140	BP.NA.M50-M63S.PA	1
CG.NA.M16.SS.C.16.K01	M16	49	4	20	18	16	BP.NA.M16-M20S.PA	1
CG.NA.M20.SS.C.16.K01	M20	69	6	25	22	18	BP.NA.M20-M25S.PA	1
CG.NA.M20S.SS.C.16.K01	M20	49	5.5	20	18	16	BP.NA.M16-M20S.PA	1
CG.NA.M25.SS.C.16.K01	M25	110	6	28	23	-	BP.NA.M25-M32S.PA	1
CG.NA.M25S.SS.C.16.K01	M25	75	6	25	22	18	BP.NA.M20-M25S.PA	1
CG.NA.M32S.SS.C.16.K01	M32	116	6	28	23	20	BP.NA.M25-M32S.PA	1
CG.NA.M40S.SS.C.18.K01	M40	214	12	56	50	45	BP.NA.M32-M40S.PA	1
CG.NA.M50.SS.C.18.K01	M50	412	18	190	155	140	BP.NA.M50-M63S.PA	1
CG.NA.M50S.SS.C.18.K01	M50	316	18	57	55	52	BP.NA.M40-M50S.PA	1
CG.NA.M63.SS.C.18.K01	M63	779	25	160	145	135	BP.NA.M63-M75S.PA	1
CG.NA.M63S.SS.C.18.K01	M63	464	25	190	155	140	BP.NA.M50-M63S.PA	1

(1) = details see type code table, BN = brass nickel-plated, SS = stainless steel

(2) = M* metric ISO pitch 1.5 mm, NPT* ANSI ASME B1.20.1

(3) = note various seal insert combinations

(4) = glands quantity per packaging unit, for complete content see scope of delivery in technical data table

(5) = BP* sealing plugs for unused cable entries available as accessories

For further information please contact Pepperl+Fuchs

Dimensions NPT

Type (1)	Thread	Clamping Range [mm] (3)				Dimensions [mm]					
		TD (2)	D	S1+S2+S3	S1+S2	S1	H min.	L	TL	D2	SW1
CG.NA.NPT3/8.BN.C.16.K01	NPT 3/8"	4 ... 12	4 ... 6	6 ... 9	9 ... 12	24	40	16	24.5	22	22
CG.NA.NPT1/2.BN.C.16.K01	NPT 1/2"	10 ... 16	10 ... 12	12 ... 14.5	14.5 ... 16	29	45	16	31	28	28
CG.NA.NPT1/2S.BN.C.16.K01	NPT 1/2"	4 ... 12	4 ... 6	6 ... 9	9 ... 12	24	40	16	24.5	22	22
CG.NA.NPT3/4.BN.C.16.K01	NPT 3/4"	14 ... 20	14 ... 17	17 ... 20	-	34	50	16	39	35	35
CG.NA.NPT3/4S.BN.C.16.K01	NPT 3/4"	10 ... 18	10 ... 12	12 ... 14.5	14.5 ... 18	24	40	16	31	28	28
CG.NA.NPT1.BN.C.20.K01	NPT 1"	22 ... 26	22 ... 24	24 ... 26	-	33	53	20	49.5	45	45
CG.NA.NPT1S.BN.C.20.K01	NPT 1"	14 ... 24	14 ... 17	17 ... 20	20 ... 24	23	43	20	39	35	35
CG.NA.NPT1-1/4.BN.C.20.K01	NPT 1-1/4"	26 ... 34	26 ... 28	28 ... 31	31 ... 34	35	55	20	56	50	50
CG.NA.NPT1-1/4S.BN.C.20.K01	NPT 1-1/4"	22 ... 32	22 ... 24	24 ... 27	27 ... 32	25	45	20	49.5	45	45
CG.NA.NPT1-1/2.BN.C.20.K01	NPT 1-1/2"	35 ... 41	35 ... 38	38 ... 41	-	43	63	20	70	64	64
CG.NA.NPT1-1/2S.BN.C.20.K01	NPT 1-1/2"	26 ... 35	26 ... 28	28 ... 31	31 ... 35	26	46	20	56	55	50
CG.NA.NPT2S.BN.C.20.K01	NPT 2"	35 ... 45	35 ... 38	38 ... 41	41 ... 45	33	53	20	70	68	64

Table continues overleaf

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

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Dimensions NPT continued

Type (1)	Thread	Clamping Range [mm] (3)				Dimensions [mm]					
		TD (2)	D	S1+S2+S3	S1+S2	S1	H min.	L	TL	D2	SW1
CG.NA.NPT3/8.SS.C.16.K01	NPT 3/8"	4 ... 12	4 ... 6	6 ... 9	9 ... 12	24	40	16	24.5	22	22
CG.NA.NPT1/2.SS.C.16.K01	NPT 1/2"	10 ... 16	10 ... 12	12 ... 14.5	14.5 ... 16	29	45	16	31	28	28
CG.NA.NPT1/2S.SS.C.16.K01	NPT 1/2"	4 ... 12	4 ... 6	6 ... 9	9 ... 12	24	40	16	24.5	22	22
CG.NA.NPT3/4.SS.C.16.K01	NPT 3/4"	14 ... 20	14 ... 17	17 ... 20	-	34	50	16	39	35	35
CG.NA.NPT3/4S.SS.C.16.K01	NPT 3/4"	10 ... 18	10 ... 12	12 ... 14.5	14.5 ... 18	24	40	16	31	28	28
CG.NA.NPT1.SS.C.20.K01	NPT 1"	22 ... 26	22 ... 24	24 ... 26	-	33	53	20	49.5	45	45
CG.NA.NPT1S.SS.C.20.K01	NPT 1"	14 ... 24	14 ... 17	17 ... 20	20 ... 24	23	43	20	39	35	35
CG.NA.NPT1-1/4.SS.C.20.K01	NPT 1-1/4"	26 ... 34	26 ... 28	28 ... 31	31 ... 34	35	55	20	56	50	50
CG.NA.NPT1-1/4S.SS.C.20.K01	NPT 1-1/4"	22 ... 32	22 ... 24	24 ... 27	27 ... 32	25	45	20	49.5	45	45
CG.NA.NPT1-1/2.SS.C.20.K01	NPT 1-1/2"	35 ... 41	35 ... 38	38 ... 41	-	43	63	20	70	64	64
CG.NA.NPT1-1/2S.SS.C.20.K01	NPT 1-1/2"	26 ... 35	26 ... 28	28 ... 31	31 ... 35	26	46	20	56	55	50
CG.NA.NPT2S.SS.C.20.K01	NPT 2"	35 ... 45	35 ... 38	38 ... 41	41 ... 45	33	53	20	70	68	64

Details and Accessories NPT

Type (1)	Thread	Mass [g]	Nut torques [Nm] (3)				Sealing plug	Qty.
			SW1	SW2 (S1+S2+S3)	SW2 (S1+S2)	SW2 (S1)		
CG.NA.NPT3/8.BN.C.16.K01	NPT 3/8"	56	4	20	18	16	BP.NA.M16-M20S.PA	1
CG.NA.NPT1/2.BN.C.16.K01	NPT 1/2"	73	6	25	22	18	BP.NA.M20-M25S.PA	1
CG.NA.NPT1/2S.BN.C.16.K01	NPT 1/2"	54	5.5	20	18	16	BP.NA.M16-M20S.PA	1
CG.NA.NPT3/4.BN.C.16.K01	NPT 3/4"	119	6	26	22	-	BP.NA.M25-M32S.PA	1
CG.NA.NPT3/4S.BN.C.16.K01	NPT 3/4"	85	6	25	22	18	BP.NA.M20-M25S.PA	1
CG.NA.NPT1.BN.C.20.K01	NPT 1"	131	6	45	40	-	BP.NA.M32-M40S.PA	1
CG.NA.NPT1S.BN.C.20.K01	NPT 1"	134	6	28	23	20	BP.NA.M25-M32S.PA	1
CG.NA.NPT1-1/4.BN.C.20.K01	NPT 1-1/4"	292	12	57	50	52	BP.NA.M40-M50S.PA	1
CG.NA.NPT1-1/4S.BN.C.20.K01	NPT 1-1/4"	232	12	56	50	45	BP.NA.M32-M40S.PA	1
CG.NA.NPT1-1/2.BN.C.20.K01	NPT 1-1/2"	422	18	190	155	-	BP.NA.M50-M63S.PA	1
CG.NA.NPT1-1/2S.BN.C.20.K01	NPT 1-1/2"	343	18	57	55	52	BP.NA.M40-M50S.PA	1
CG.NA.NPT2S.BN.C.20.K01	NPT 2"	465	25	190	155	140	BP.NA.M50-M63S.PA	1
CG.NA.NPT3/8.SS.C.16.K01	NPT 3/8"	49	4	20	18	16	BP.NA.M16-M20S.PA	1
CG.NA.NPT1/2.SS.C.16.K01	NPT 1/2"	78	6	25	22	18	BP.NA.M20-M25S.PA	1
CG.NA.NPT1/2S.SS.C.16.K01	NPT 1/2"	51	5.5	20	18	16	BP.NA.M16-M20S.PA	1
CG.NA.NPT3/4.SS.C.16.K01	NPT 3/4"	118	6	26	22	-	BP.NA.M25-M32S.PA	1
CG.NA.NPT3/4S.SS.C.16.K01	NPT 3/4"	75	6	25	22	18	BP.NA.M20-M25S.PA	1
CG.NA.NPT1.SS.C.20.K01	NPT 1"	118	6	45	40	-	BP.NA.M32-M40S.PA	1
CG.NA.NPT1S.SS.C.20.K01	NPT 1"	116	6	28	23	20	BP.NA.M25-M32S.PA	1
CG.NA.NPT1-1/4.SS.C.20.K01	NPT 1-1/4"	285	12	57	55	52	BP.NA.M40-M50S.PA	1
CG.NA.NPT1-1/4S.SS.C.20.K01	NPT 1-1/4"	212	12	56	50	45	BP.NA.M32-M40S.PA	1
CG.NA.NPT1-1/2.SS.C.20.K01	NPT 1-1/2"	352	18	190	155	-	BP.NA.M50-M63S.PA	1
CG.NA.NPT1-1/2S.SS.C.20.K01	NPT 1-1/2"	328	18	57	55	52	BP.NA.M40-M50S.PA	1
CG.NA.NPT2S.SS.C.20.K01	NPT 2"	463	25	190	155	140	BP.NA.M50-M63S.PA	1

(1) = details see type code table, BN = brass nickel-plated, SS = stainless steel

(2) = M* metric ISO pitch 1.5 mm, NPT* ANSI ASME B1.20.1

(3) = note various seal insert combinations

(4) = glands quantity per packaging unit, for complete content see scope of delivery in technical data table

(5) = BP* sealing plugs for unused cable entries available as accessories

For further information please contact Pepperl+Fuchs