

TECHNICAL DATA

CABLE GLAND TYPE : T3CDS / T3CDSPB
 INGRESS PROTECTION : IP66, NEMA 4X, DELUGE TO DTS01-01, Oil Resistance II
 PROCESS CONTROL SYSTEM : BS EN ISO 9001

HAZARDOUS AREA CLASSIFICATION

ATEX CERTIFICATION No : SIRA 06ATEX1283X & SIRA 06ATEX4328X
 ATEX CERTIFICATION CODE : Ex II 2 GD Ex d IIC / Ex e II / Ex nR II / Ex tD A21 IP66
 IEC Ex CERTIFICATION No : IEC Ex SIR.07.0005X
 IEC Ex CERTIFICATION CODE : Ex d IIC / Ex e II / Ex nR II / Ex tD A21 IP66
 CSA-US CERTIFICATION No : CSA.02.310517X
 CSA-US CERTIFICATION CODE : Class I, Div 2, Groups ABCD; Class II, Div 2, Groups EFG; Class III; Ex d IIC; Ex e II; Class I, Zone 1, AEx d IIC; Class I, Zone 1, AEx e II

INSTALLATION INSTRUCTIONS

Installation should only be performed by a competent person using the correct tools. Read all instructions before beginning installation.

SPECIAL CONDITIONS FOR SAFE USE

1. The glands ranges shall only be used on enclosures where the temperature, at the point of mounting, is in the range -60°C to +130°C.
2. When used with braided cable, the cable glands shall be used for fixed installations only. Cables must be effectively clamped to prevent twisting and pulling.
3. When used in Group I applications, the equipment must only be mounted where the risk of mechanical impact is low.
4. According to CEC Wiring methods, connectors with Metric entry threads are only suitable for Areas classified in ZONES unless fitted with an approved Metric to NPT thread conversion adaptor.

ACCESSORIES

The following accessories are available from CMP Products, as optional extras, to assist with fixing, sealing and earthing :-
 Locknut | Earth Tag | Serrated Washer | Entry Thread (I.P.) Sealing Washer | Shroud *

Cable Gland Size	Available Entry Threads			Minimum Thread Length	Cable Bedding Diameter		Overall Cable Diameter		Armour Range +				Across Flats	Across Corners	Protrusion Length	Ordering Reference (Brass Metric) #	Cable Gland Weight (Kgs)
	Standard Metric	Option NPT	Option NPT		Min	Max	Min	Max	Grooved Cone	Stepped Cone	Min	Max					
20S/16	M20	1/2"	3/4"	15.0	3.2	8.7	6.1	13.4	0.15	1.0	0.9	1.0	24.0	25.9	70.0	20S16T3CDS1RA	0.170
20S	M20	1/2"	3/4"	15.0	6.1	11.7	9.5	15.9	0.15	1.0	0.9	1.25	24.0	25.9	70.0	20ST3CDS1RA	0.170
20	M20	1/2"	3/4"	15.0	6.5	14.0	12.5	20.9	0.15	1.0	0.9	1.25	30.5	32.9	72.0	20T3CDS1RA	0.256
25S	M25	3/4"	1"	15.0	11.1	20.0	14.0	22.0	0.15	1.0	1.25	1.6	37.5	40.5	82.0	25ST3CDS1RA	0.384
25	M25	3/4"	1"	15.0	11.1	20.0	18.2	26.2	0.15	1.0	1.25	1.6	37.5	40.5	82.0	25T3CDS1RA	0.379
32	M32	1"	1 1/4"	15.0	17.0	26.3	23.7	33.9	0.15	1.0	1.6	2.0	46.0	49.7	85.0	32T3CDS1RA	0.560
40	M40	1 1/4"	1 1/2"	15.0	23.5	32.2	27.9	40.4	0.15	1.0	1.6	2.0	55.0	59.4	86.0	40T3CDS1RA	0.848
50S	M50	1 1/2"	2"	15.0	31.0	38.2	35.2	46.7	0.15	1.0	2.0	2.5	60.0	64.8	98.0	50ST3CDS1RA	1.055
50	M50	2"	2 1/2"	15.0	35.6	44.1	40.4	53.1	0.15	1.0	2.0	2.5	70.0	75.6	100.0	50T3CDS1RA	1.521
63S	M63	2"	2 1/2"	15.0	41.5	50.0	45.6	59.4	0.15	1.0	2.0	2.5	75.0	81.0	108.0	63ST3CDS1RA	1.750
63	M63	2 1/2"	3"	15.0	47.2	56.0	54.6	65.9	0.15	1.0	2.0	2.5	80.0	86.4	103.0	63T3CDS1RA	1.685
75S	M75	2 1/2"	3"	15.0	54.0	62.0	59.0	72.1	0.15	1.0	2.0	2.5	89.0	96.1	105.0	75ST3CDS1RA	2.345
75	M75	3"	3 1/2"	15.0	61.1	68.0	66.7	78.5	0.15	1.0	2.0	2.5	99.0	106.9	114.0	75T3CDS1RA	3.200
90	M90	3"	3 1/2"	15.0	66.6	79.3	76.2	90.4	0.25	1.6	3.15	3.15	114.0	123.1	140.0	90T3CDS1RA	5.100
100	M100	4"	4 1/2"	15.0	76.0	91.0	86.1	101.5	0.25	1.6	3.15	4.0	123.0	132.8	170.0	100T3CDS1RA	6.500
115	M115	4 1/2"	5"	15.0	86.0	98.0	101.5	110.3	0.25	1.6	3.15	4.0	133.4	144.1	210.0	115T3CDS1RA	7.000
130	M130	5"	6"	15.0	97.0	115.0	114.2	123.3	0.25	1.6	3.15	4.0	146.1	157.8	250.0	130T3CDS1RA	7.800

Dimensions are displayed in millimetres unless otherwise stated

** Insert "PB" into the code for T3CDSPB glands e.g. 20T3CDSPB1RA
 * For IP67 & IP68 requirements the Cable Diameter "B" (minimum value) shown above should be increased by 1.0 mm to ensure complete compliance

Cable Gland Selection Table

ASSEMBLY FITTING INSTRUCTIONS FOR INSTALLATION OF CMP CABLE GLAND TYPES T3CDS & T3CDSPB

CABLE GLAND FOR USE WITH SINGLE WIRE ARMOUR (SWA), WIRE BRAID, STRIP, AND TAPE ARMOUR (T3CDSPB VERSION CAN ALSO BE USED ON CABLE WITH A LEAD SHEATH). FOR USE IN HAZARDOUS LOCATIONS.

INCORPORATING EC DECLARATION OF CONFORMITY TO DIRECTIVE 94/9/EC

CMP TRITON™ CDS™ DELUGE PROOF CABLE GLAND FEATURING COMPENSATING DISPLACEMENT SEAL SYSTEM.

CABLE GLAND TYPES T3CDS & T3CDSPB



CMP PRODUCTS

I, the undersigned, hereby declare that the equipment referred to herein conforms to 94/9/EC directive.

G. I. Mood

Dr Geof Mood - Technical Director - (Authorised Person)

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CE 0518

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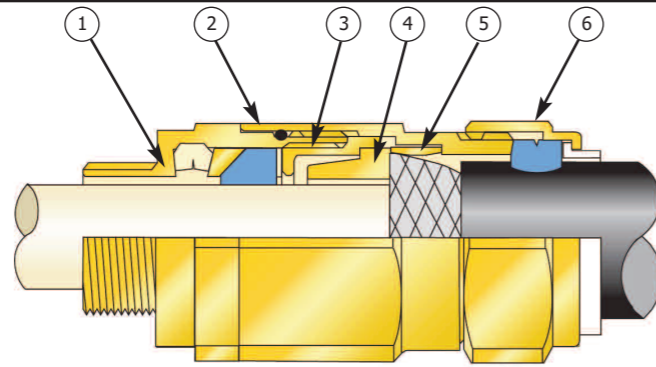


Logo's shown for illustration purposes only. Please check certification for details

INSTALLATION INSTRUCTIONS FOR CMP CABLE GLAND T3CDS & T3CDSPB

CABLE GLAND COMPONENTS

1. Entry Item
2. Body
3. Compensating Sleeve
4. Reversible Armour Cone
5. AnyWay Clamping Ring
6. Outer Seal Nut



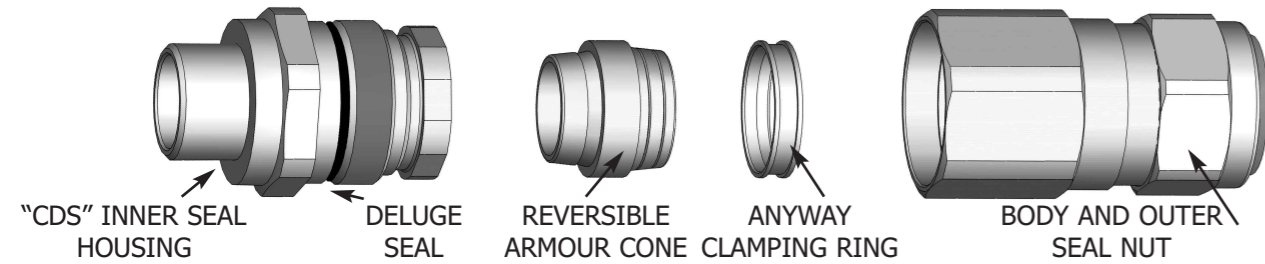
PLEASE READ ALL INSTRUCTIONS CAREFULLY BEFORE BEGINNING THE INSTALLATION

SUB-ASSEMBLY A

ITEM 4

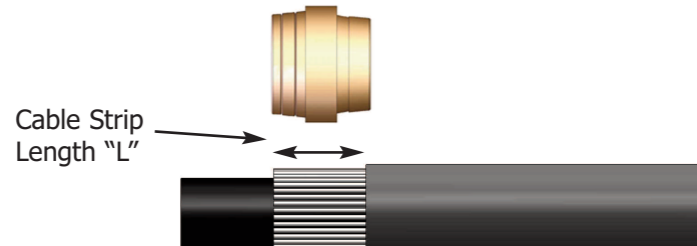
ITEM 5

SUB-ASSEMBLY B



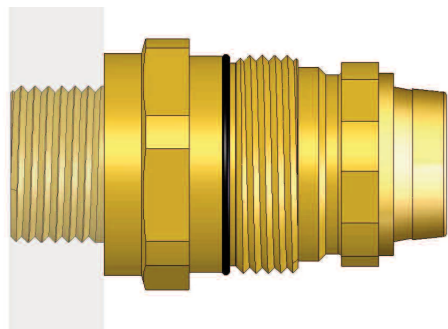
1. Separate the gland into two sub-assemblies, A and B, by unscrewing the body (2) from the entry item (1). Note that items (4) and (5) are loose items.

2. Prepare the cable by stripping back the cable outer sheath and armour to suit the equipment geometry. Expose the armour by stripping back the outer sheath further using the table below as a guide.

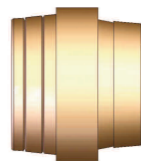


CABLE GLAND SIZE	20S/16, 20S, 20	25S, 25, 32, 40	50S, 50, 63S, 63	75S, 75, 90, 100, 115, 130
CABLE STRIP LENGTH "L"	12mm	15mm	18mm	20mm

3. Secure the entry components (sub-assembly A) into the equipment. **(Not for remote installation)** Pass the sub-assembly B and AnyWay clamping ring (5) over the cable, outer seal first. Insert the reversible armour cone (4) in the sub-assembly B, orientated correctly:



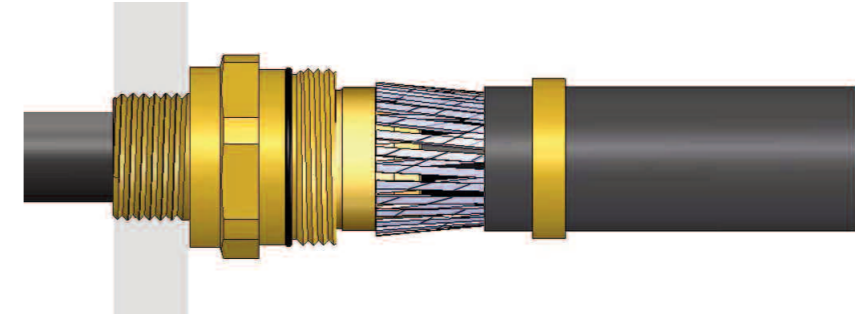
Grooved side of cone outwards - to terminate braid, strip armour, pliable wire or tape armour.



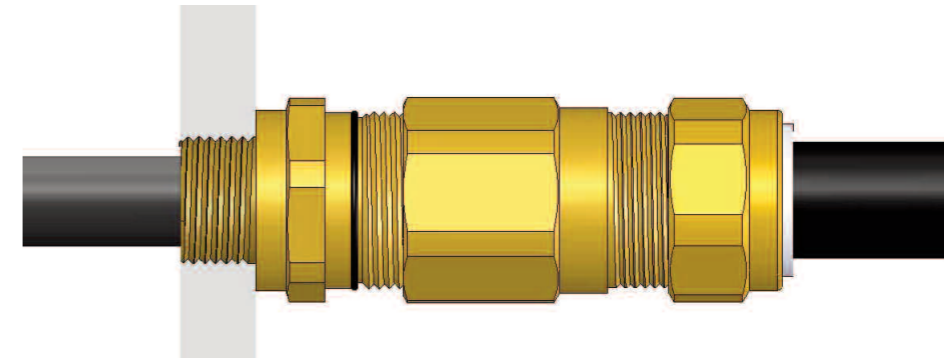
Stepped side of cone outwards - to terminate SWA cable.

4. Pass the cable through sub-assembly A, spacing the armour or braid evenly around the cone. Whilst continuing to push the cable forward to keep the cable braid or armour in contact with the cone, tighten the compensating sleeve (3) into the entry component (1) until all the threads are used. (Note that the internal compensator will prevent the cable gland inner seal from being over-tightened onto the cable inner sheath.)

The inner sheath of the T3CDSPB gland contains a device to automatically make an electrical contact with the lead sheath on the cable as the cable is installed.



5. Terminate the cable by tightening the body (2) onto the entry component (1) using a spanner on each part. Tighten the body until the body and entry components are metal to metal and cannot be tightened further.



6. Tighten the outer seal nut (6) until it comes to an effective stop. This will occur when:-
 A) The outer seal nut (6) has clearly engaged the cable and cannot be further tightened without the use of excessive force by the installer.
 B) The outer seal nut (6) is metal to metal with the body of the gland (2).

