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


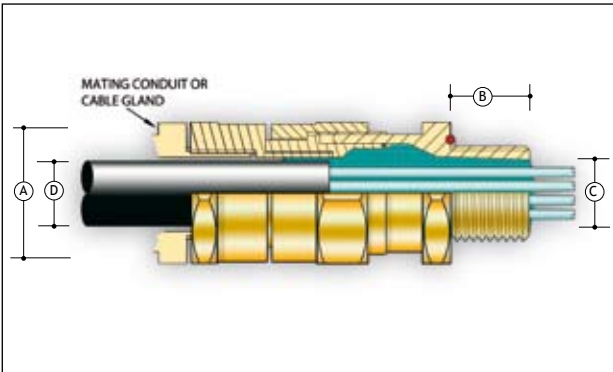
Type CR-S Barrier Gland For Conduits



Part of our ATEX Gland Range
 2006 Catalogue Page 4.3.0

Croclock CR-S type glands provide Flameproof EExd compound filled barrier seal on the cables individual conductors within a conduit. It also provides an entry thread seal. Croclock CR-S type glands maintain EExd Flameproof method of explosion protection; IP66, 68 to 100 metres and is deluge resistant.

DESIGN STANDARD	EN50014:1998, EN50018:2000 & EN 50281-1-1:1998 IEC 60079-0 (2000-06), IEC 60079-1 (2001-02)														
CERTIFICATION	 ATEX I M2 II 2 GD, E Exd I & IIC GOST R-Exd I & IICU CSA Exd I & IIC 4X, Class 1, Zone 1 IECEx Exd IIC / Exd I NEPSI Exd IIC / Exe II														
CERTIFICATE	SIRA 03ATEX1479X - Ex Notified Body No. 0518 POCC GB 05.B00974 CSA 1356011 IECEX SIR 05.0020X NEPSI GYJ06188X														
GLAND MARKING	CENELEC & ATEX Example: SIRA 03ATEX1479X  M2 II 2GD EExd I & IIC IP68 PEPPERS UK/XX/CR-SB - 20 M20 M20 (XX = Year Code)														
APPLICATION	EExd Equipment CR-S type glands will maintain Flameproof Exd integrity. Ref: IEC60079-14:2002 Section 10.4.2 <table border="1" data-bbox="311 1220 1372 1288"> <thead> <tr> <th>Gas Group</th> <th>Internal Ignition Source</th> <th>Enclosure Volume</th> <th>Which Zone</th> <th>Use CR-S Gland</th> </tr> </thead> <tbody> <tr> <td>I, IIC, IIB, IIA</td> <td>YES</td> <td>Any</td> <td>Zone 1 or 2</td> <td>YES</td> </tr> </tbody> </table> Other Equipment Mining Equipment Group I, M2 Ignitable Dust, Zones 21 and 22					Gas Group	Internal Ignition Source	Enclosure Volume	Which Zone	Use CR-S Gland	I, IIC, IIB, IIA	YES	Any	Zone 1 or 2	YES
Gas Group	Internal Ignition Source	Enclosure Volume	Which Zone	Use CR-S Gland											
I, IIC, IIB, IIA	YES	Any	Zone 1 or 2	YES											
INGRESS PROTECTION	IP66 & IP68 @ 100 metres Meets the requirements of DTS01 1991														
CURING TIME	@ 21°C Conductor termination can be effected after 1 hour The equipment can be energised after 4 hours The compound chamber can be inspected after 4 hours														
MATERIALS	Brass CZ121 (CR-SB) 316 Stainless Steel (CR-SS) Inner LSOH compound Entry thread seal: Red LSOH silicone														
OPTIONS	THREADS	ISO Metric; NPT; NPS; ISO Pipe Thread (BSP Taper, BSP Parallel)													
	PLATING	Zinc (ZP); Nickel (NP); Tin (TP); Electroless Nickel (EN)													
OPERATING TEMPERATURES	-60°C to +85°C														
ACCESSORIES	Locknut - Brass (ACBLN); 316 Stainless Steel (ACSLN) Earth Tag - Brass (ACBET), 316 Stainless Steel (ACSET) IP Washer - Nylon (ACNSW); Red Fibre (ACFSW) Serrated Lock Washer - 316 Stainless Steel (ACSSW), Galvanised Steel (ACGSW)														



EXAMPLE PART NUMBER	<p>Sample: CR-SB 20 /NP /M20 /M20</p> <p>CR-S:</p> <p>CR-S - Gland type</p> <p>**-*B - Material (Brass)</p> <p>20 - Fitting size = 20</p> <p>NP - Nickel plating</p> <p>M20 - Male entry thread</p> <p>M20 - Female thread for gland or conduit entry</p>
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Fitting Size Ref	Male Entry Threads		Female Entry Threads		Entry Thread Length [B]	Max Across Corners [A]	Max Protrusion Length	Sealing Range Cable Conductors / Cores		
	Metric	NPT	Metric	NPT				Max No. of Cores	Max Over Cores [C]	Max Cable Inside Fitting [D]
20	M20	1/2" or 3/4"	M20	1/2" or 3/4"	16	33.0	57.0	14	12.5	14.0
25	M25	3/4" or 1"	M25	3/4" or 1"	16	41.4	63.0	25	17.8	20.0
32	M32	1" or 1 1/4"	M32	1" or 1 1/4"	16	50.6	67.0	50	23.5	26.3
40	M40	1 1/4" or 1 1/2"	M40	1 1/4" or 1 1/2"	16	60.5	68.0	80	28.8	32.2
50	M50	2"	M50	2"	16	71.5	68.0	100	39.4	44.1
63	M63	2 1/2"	M63	2 1/2"	19	88.0	72.0	120	50.0	56.0
75	M75	3"	M75	3"	19	99.0	78.0	140	60.8	68.0
80	M80 x 2	3" or 3 1/2"	M80 x 2	3" or 3 1/2"	25	115.2	103.0	160	64.4	72.0
85	M85 x 2	3" or 3 1/2"	M85 x 2	3" or 3 1/2"	25	115.2	103.0	180	69.8	78.0
90	M90 x 2	3 1/2" or 4"	M90 x 2	3 1/2" or 4"	25	125.7	104.0	200	75.1	84.0
100	M100 x 2	3 1/2" or 4"	M100 x 2	3 1/2" or 4"	25	125.7	104.0	220	80.5	90.0

All Dimensions are in mm

NOTES:

- Please note that dimensions (A) & (B) may differ for glands with non-Metric entry threads. Please refer to our thread data tables for specific dimensions
- Integral entry thread seal option is not available for glands with tapered entry threads. IP washers can be supplied if required
- Unless otherwise stated ISO Metric entry threads have a 1.5mm pitch
- For Flameproof Exd applications the female thread into which the gland is to be fitted must comply with clause 5.3 of EN 50018:2000 (clause 5.3 IEC 79-1) and an engagement of at least 5 full threads must be achieved for parallel threads and should be achieved for tapered threads
- If CR-S type glands are fitted into non-metallic enclosures they must be included within the earth circuit of the system
- The user should seek expert advice if intending to combine flammable gases and combustible dusts in one environment/installation
- To maintain ingress protection a thread sealant should be applied to the conduit thread
- Full assembly instructions are supplied with glands, the instructions must be read prior to installation and adhered to in full

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