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## Cable Gland Type CR (featuring "CROCLOCK®")

Ex d : Ex e : Ex nR : Ex tD A21 : IP66 : IP68

Part Numbers:	C	R	*	1	B	*
			D	2	S	R
			O	3		
				4		

"CR" type glands, certified Flameproof Ex d, Increased Safety Ex e & Restricted Breathing Ex nR are suitable for use in Zone 1, Zone 2, Zone 21, Zone 22 and in Gas Groups IIA, IIB and IIC. They provide a controlled Ex d & IP displacement seal on the cable inner sheath minimising damage to cables that exhibit "cold flow" characteristics, an environmental seal on the outer sheath and "CROCLOCK®", a unique non reversible multi clamping system for wire (W), braid (X) and tape (Z) armoured cables. The gland maintains IP66 & IP68 to 25 metres and is deluge proof without the use of an additional seal or deluge boot. It is supplied with an IP O-ring seal as standard on metric entry threads. Options are available for use with lead sheath, LSOH cables and extreme temperature applications.

Example Part Numbering: **CR-1BCK1/NP/20/050NPT**

See below for details



<b>CR</b>	Type of gland featuring "CROCLOCK®", single orientation clamping
<b>1</b>	Neoprene Seals (1) - Silicone (3) - Neoprene/Lead (2) - Silicone/Lead (4)
<b>B</b>	Brass (B) - Stainless Steel (S)
<b>Options</b>	R Reduced Bore Seal
	C PVC Shroud (C) - PCP Shroud (P) - LSOH Shroud (3)
	K or V Locknut, Earth Tag & Nylon (K) or Fibre (V) IP Washer
	S Including Serrated Washer
	1 Quantity per kit
<b>NP</b>	Nickel Plated (NP) - Zinc Plated (ZP)
<b>20</b>	Gland shell size
<b>050NPT</b>	1/2"NPT Entry Thread

<b>Optional Accessories</b>	Locknut	Brass (ACBLN) / Stainless Steel (ACSLN)
	Earth tag	Brass (ACBET) / Stainless Steel (ACSET)
	IP Washers	Nylon (ACNSW) / Fibre (ACFSW) / PTFE (ACPSW)
	Serrated Washer	Stainless Steel (ACSSW)
	Shrouds	PVC (ACSPVC) / PCP (ACSPCP) / LSOH (ACSSIO)

<b>Variations:</b>	CR-O	Omission of Inner Seal (Ex e & Ex tD) (IP66)
	CR-D	Omission of Outer Seal

<b>Compliance</b>	EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-15, EN 61241-0, EN 61241-1	
<b>Standard:</b>	IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 61241-0, IEC 61241-1 & IEC 60529	
<b>Certification:</b>	ATEX	II 2 GD Ex d IIC / Ex e II / Ex tD A21 II 3 GD Ex nR II
	IECEX	Ex d IIC / Ex e II / Ex tD A21
	GOST-R	Ex d IICU / Ex e IIU
	CSA	Ex d IIC / Ex e II Class I Zone 1 Class I Division 2, Groups A, B, C & D Class II Division 2, Groups E, F & G Class III, Enclosure Types 3, 4 & 4X
	NEPSI	Ex d IIC / Ex e II
	INMETRO	BR - Ex d IIC / Ex e II / Ex nR II / Ex tD A21
	ABS	1-1-4/7.7, 4.8-3/1.7, 4-8-3/13 and 4-8-4/27.5 MODU Rules 4-3-3/9
	LLOYD'S	Enclosure Systems (Part 1B)
	RMRS	Part XI of Rules for sea-going ships (ed.2008)
<b>Certificate No.</b>	ATEX	BAS 01ATEX2271X & SIRA 09AT-EX1221X
	IECEX	SIR 07.0099X
	GOST-R	POCC GB.ГБ06.В00853
	CSA	CSA 1356011
	NEPSI	GYJ06189X
	INMETRO	NCC 5877/09 X
	ABS	09-LD463991-PDA
	RMRS	09.00784.011
<b>IP Rating:</b>	IP66 & IP68 (25 metres - 30 minutes), NEMA 4X & DTS01 1991	
<b>Operating Temperature:</b>	Neoprene Seals -20°C to +85°C Silicone Seals -60°C to +180°C	
<b>Materials:</b>	Brass or Stainless Steel	
<b>Plating:</b>	Nickel - Zinc	

## CABLE GLAND SELECTION TABLE

Gland Size	Entry Thread Size		ISO Thread Length [B]	Cable Acceptance Details						Armour Acceptance Range	Max Protrusion Length	Dimensions/Weight (Metric Versions)			Shroud Size
	Metric	NPT		Inner Sheath [C]		Outer Sheath [D]		Reduced [D]				Across Flats	Across Corners	Weight Kgs	
				Min	Max	Min	Max	Min	Max						
16	M20 x 1.5	1/2" or 3/4"	16	3.4	8.4	9.0	13.5	6.7	10.3	0.15-1.25	78	25.4	28.0	0.178	EL24
20S	M20 x 1.5	1/2" or 3/4"	16	7.2	11.7	12.9	16.0	9.4	12.5	0.15-1.25	78	25.4	28.0	0.173	EL24
20	M20 x 1.5	1/2" or 3/4"	16	9.4	14.0	15.5	21.1	12.0	17.6	0.15-1.25	78	30.0	33.0	0.233	EL30
25	M25 x 1.5	3/4" or 1"	16	13.5	20.0	20.3	27.4	16.8	23.9	0.15-1.60	90	38.0	41.4	0.416	EL38
32	M32 x 1.5	1" or 1 1/4"	16	19.5	26.3	26.7	34.0	23.2	30.5	0.15-2.00	105	46.0	50.6	0.772	EL46
40	M40 x 1.5	1 1/4" or 1 1/2"	16	23.0	32.2	33.0	40.6	28.6	36.2	0.20-2.00	113	55.0	60.5	1.093	EL55
50S	M50 x 1.5	1 1/2" or 2"	16	28.1	38.2	39.4	46.7	34.8	42.4	0.20-2.50	125	65.0	71.5	1.400	EL65
50	M50 x 1.5	2"	16	33.1	44.1	45.7	53.2	41.1	48.5	0.30-2.50	125	65.0	71.5	1.255	EL65
63S	M63 x 1.5	2" or 2 1/2"	19	39.2	50.1	52.1	59.5	47.5	54.8	0.30-2.50	125	80.0	88.0	2.550	EL80
63	M63 x 1.5	2 1/2"	19	46.7	56.0	58.4	65.8	53.8	61.2	0.30-2.50	125	80.0	88.0	2.104	EL80
75S	M75 x 1.5	2 1/2" or 3"	19	52.1	62.0	64.8	72.2	60.2	68.0	0.30-2.50	131	90.0	99.0	2.916	EL90
75	M75 x 1.5	3"	19	58.0	68.0	71.1	78.0	66.5	73.4	0.30-2.50	131	90.0	99.0	2.315	EL90
80	M80 x 2	3" or 3 1/2"	25	62.2	72.0	77.0	84.0	71.9	79.4	0.45-3.15	170	104.0	115.2	4.953	EL104
80H	M80 x 2	3" or 3 1/2"	25	62.2	72.0	79.6	90.0	75.0	85.4	0.45-3.15	170	104.0	115.2	4.953	EL104
85	M85 x 2	3" or 3 1/2"	25	69.0	78.0	79.6	90.0	75.0	85.4	0.45-3.15	170	104.0	115.2	4.070	EL104
90	M90 x 2	3 1/2" or 4"	25	74.0	84.0	88.0	96.0	82.0	91.4	0.45-3.15	170	114.0	125.7	5.129	EL114
90H	M90 x 2	3 1/2" or 4"	25	74.0	84.0	92.0	102.0	87.4	97.4	0.45-3.15	170	114.0	125.7	5.129	EL114
100	M100 x 2	3 1/2" or 4"	25	82.0	90.0	92.0	102.0	87.4	97.4	0.45-3.15	170	114.0	125.7	4.368	EL114
110	M110 x 2	4"	25	92.0	102.0	104.0	117.0	-	-	0.45-3.15	165	135.0	148.5	7.327	-

All dimensions in mm

## Notes:

- Gland size does not necessarily equate to the entry thread size.
- The IP O-ring seal is only available on metric entry threads. IP washers can be supplied for tapered entry threads. IP O-rings cannot be used in conjunction with a flat IP washer.
- Dimensions (A) & (B) may differ for glands with non metric entry threads. Please refer to our "Thread Reference Tables" for specific dimensions.
- Where glands are fitted into non-metallic Ex e enclosures they must be included within the earth circuit of the system.
- The user should seek expert advice if intending to combine flammable and combustible dust in one environment/installation.
- Assembly instructions must be read prior to installation and adhered to in full.
- Peppers supply cable glands with parallel entry threads that conform to the flameproof threaded joint requirements of IEC/EN 60079-1 and other equivalent standards. They usually incorporate a thread run out according to the available machining techniques and will not have a full form thread for the entire length. Peppers will not be held responsible for clients' installations where this has not been taken into account.
- To maintain the specified IP rating, clearance holes must be in accordance with EN 50262 Table 1 and the entry device should be suitably secured. The CR-O version is not suitable for Ex nR applications.
- All gland kits supplied with silicone seals will include a PTFE IP washer in order to maintain the temperature range.