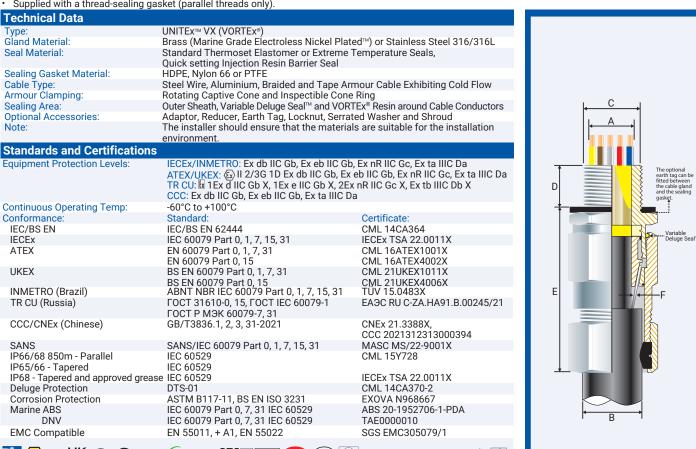


UNITEX VX Ex db IIC, Ex eb IIC, Ex ta IIIC, Ex nR IIC VORTEX BARRIER GLAND WITH VARIABLE DELUGE SEAL™ for Unfilled Multi Armoured and Marine Cables

Features and Benefits

- For indoors, outdoors, Group II, III, Zone 1, 2, 20, 21 and 22 hazardous areas
- For unfilled hygroscopic multicore cables refer to IEC 60079-14; 9.3.2 and 10.6.2a, IEC 61892-7, 10.6 and 10.7.
- Freely rotating captive cone and inspectible cone ring provides an armour clamp and earth bond on steel wire armour, aluminium wire armour, tape armour, braid wire armour cables and NEK 606 marines cable susceptible to cold flow.
- With a patented Variable Deluge Seal[™] as standard. Instantly mixed and injected resin forms a 100% barrier seal around the individual cores of the cable. Prevents explosive gases and/or liquids transmitting down the cable.
- Precision manufactured from high-quality brass (Marine Grade Electroless Nickel Plated™) available in stainless steel 316/316L on request.
- Supplied with a thread-sealing gasket (parallel threads only).



🎬 🔂 (E 🖧 🞰 🚌 Tsafe_SGS [[][[[x] II]] 👀 🔍 📾 🖗 DDS 🥮 🛲 💷 Conditions for Safe Use - X

			PATENTE	ED

The cable gland shall only be used where the temperature, at the point of entry, is between -60°C to +100°C.

Droduot	Gland	Metric Entry Thread		NPT Entry Thread		Cable Detail				Max		Armour Dia		Hex Detail		Install.	
Product Code	Size Reference	'C'	Min 'D'	'C'	Min 'D'	Min 'A'	Max 'A'	Min 'B'	Max 'B'	Length 'E'	Dia. Over Cores	No. of Cores	Min 'F'	Max 'F'	Max 'Flats'	Max 'Crns'	TRQ Value Nm
055900S-16-VX	00s-16ss	M16x1.5	15	-	-	3.0	8.5	5.0	10.5	62.0	8.0	6	0.2	0.9	24.0	27.0	21.0
	00s-20ss	M20x1.5	15	1/2/3/4	15	3.0	8.5	5.0	10.5	62.0	10.7	10	0.2	0.9	24.0	27.0	21.0
055900-VX	00-20ss	M20x1.5	15	1/2/3/4	15	3.0	8.5	8.0	14.0	61.0	10.7	10	0.2	0.9	24.0	27.0	21.0
0559-0S-16-VX	0s-16s	M16x1.5	15	-	-	7.0	12.0	8.0	14.0	64.0	8.0	6	0.2	1.25	24.0	27.0	21.0
0559-0S-VX	0s-20s	M20x1.5	15	1/2/3/4	15	7.0	12.0	8.0	14.0	64.0	10.9	10	0.2	1.25	24.0	27.0	21.0
0559-0-VX	0-20s	M20x1.5	15	1/2/3/4	15	7.0	12.0	11.5	16.0	64.0	10.9	10	0.2	1.25	24.0	27.0	21.0
055901-VX	1-20	M20x1.5	15	1/2/3/4	15	9.0	15.0	12.5	20.5	76.0	12.5	25	0.2	1.25	27.0	30.0	21.0
055922-VX	2s-25s	M25x1.5	15	3⁄4/1	15/19	11.0	17.5	16.0	24.5	90.0	16.5	48	0.2	1.60	35.0	39.0	30.0
055902-VX	2-25	M25x1.5	15	3/4/1	15/19	14.0	20.0	18.0	27.0	90.0	16.5	48	0.2	1.60	35.0	39.0	30.0
055933-VX	3s-32s	M32x1.5	15	1/1¼	19	15.0	22.0	20.0	30.5	103.0	24.0	76	0.2	2.00	42.0	47.0	42.0
055903-VX	3-32	M32x1.5	15	1/1¼	19	19.0	26.5	23.0	33.5	103.0	24.0	76	0.2	2.00	42.0	47.0	42.0
055944-VX	4s-40s	M40x1.5	15	11/4/11/2	19/21	22.0	31.5	26.5	39.0	105.0	32.0	96	0.3	2.00	52.0	59.0	52.0
055904-VX	4-40	M40x1.5	15	11/4/11/2	19/21	26.0	34.0	28.0	40.0	110.0	32.0	96	0.3	2.00	52.0	59.0	52.0
055955-VX	5s-50s	M50x1.5	15	1½/2	21	29.0	38.0	35.2	47.5	129.0	36.3	96	0.4	2.50	65.0	73.0	57.0
055905-VX	5-50	M50x1.5	15	1½/2	21	34.0	44.5	44.4	52.8	129.0	36.3	96	0.4	2.50	65.0	73.0	57.0
055966-VX	6s-63s	M63x1.5	15	2/21/2	21/30	38.0	50.0	45.5	60.5	137.0	47.9	100	0.4	2.50	80.0	90.0	66.0
055906-VX	6-63	M63x1.5	15	2/21/2	21/30	44.0	56.5	54.6	65.9	137.0	47.9	100	0.4	2.50	80.0	90.0	66.0
055977-VX	7s-75s	M75x1.5	15	21⁄2/3	30/32	50.0	62.0	59.0	72.5	157.0	60.0	120	0.4	3.15	96.0	108.0	72.0
055907-VX	7-75	M75x1.5	15	21⁄2/3	30/32	56.0	67.5	65.0	78.0	157.0	60.0	120	0.4	3.15	96.0	108.0	72.0
055908-VX	8-80	M80x2.0	20	3	32	59.0	69.0	65.0	77.5	156.0	61.5	140	0.4	3.15	96.0	108.0	80.0
055999-VX	9s-90s	M90x2.0	20	3/31/2	32/33	66.0	75.0	73.0	86.5	174.0	70.5	160	0.4	3.50	111.0	125.0	89.0
055909-VX	9-90	M90x2.0	20	3/31/2	32/33	74.0	81.5	82.0	91.0	174.0	70.5	160	0.4	3.50	111.0	125.0	89.0
055910-VX	10-100	M100x2.0	20	31⁄2/4	33/34	81.0	91.0	90.0	100.0	193.0	79.0	180	0.4	3.50	125.0	141.0	98.0

CCG reserves the right to make alterations to the technical data, dimensions, designs and products available without notice. The illustrations cannot be considered binding. Please contact CCG for assistance.





FITTING INSTRUCTIONS Metric Illustration

UNITEX^M VX (VORTEX[®]) BARRIER GLAND

ENCLOSURES AND EQUIPMENT TO WHICH CABLE GLANDS ARE FITTED:-

- Must be made from materials which are compatible with the cable gland materials Have a sealing area around the cable gland entry point with a surface roughness
- < Ra 6.3 µm. Have entries that are perpendicular to the enclosure face in the area where the cable
- aland will seal to within 2.5°. Are sealed using the supplied sealing gasket (parallel threads) or by fully tightening into a threaded entry (tapered threads). Note that for tapered threads the IP rating can be improved to IP68 with the use of a suitable thread sealant.

MUST HAVE THREADED ENTRIES

- The same thread size as the cable gland. (Thread adapters should be used to correct
- any mismatch).
 - With a thread tolerance of metric class '6H' or equivalent.
- Where the thread length is a minimum of 10mm for Ex d applications or 3mm for all other applications
- OR CLEARANCE HOLES (not Ex d)
 - Where the hole size is the thread nominal size with a tolerance of +0.1 to +0.7 mm. (e.g. the clearance hole for an M20 thread will have a diameter between 20.1mm and 20.7mm)
 - Through material that is between 1mm and 12mm thick. (Thicker materials can be accommodated using glands with extended entry threads.)
- 1. For accurate sizing, use a CCG Dimension Tape (1) on the inner and outer cable sheath.
- Separate the inner 2 from the body 3. Cut back the cable outer sheath to expose the armour to a length as per the table below. Strip back the inner bedding to expose the inner cable cores using the cone (5) as a gauge.

Gland Size	Armour Length	Gland Size	Armour Length	Gland Size	Armour Length	Gland Size	Armour Length
00-16ss	20.0	3s-32s	30.0	6s-63s	45.0	9-90	50.0
00-20ss	20.0	3-32	30.0	6-63	45.0	10-100	60.0
0-20s	20.0	4s-40s	30.0	7s-75s	50.0	11-115	60.0
1-20	25.0	4-40	30.0	7-75	50.0	12-120	60.0
2s-25s	25.0	5s-50s	35.0	8-80	50.0	13-130	60.0
2-25	25.0	5-50	35.0	9s-90s	50.0		

If the cable cores have screens these should be cut away or twisted together into a single core. This single core should be insulated with heat shrink tubing or coated with insulating varnish. Any drain wires should also be insulated with heat shrink tubing or coated with insulating varnish.

3. Using a clean cloth, clean the cable cores.

If the gland has NPT entry threads fitted to a threaded entry then IP68 (2m) can be achieved by applying one of the following tested and approved grease types to the thread:- Renolit Lubrene CA700 or LX220 EP2, Renolit LC-WP2 or Moly LX2, or Dow Corning 4 Electrical Compound.

- Using the insulation tape, bundle the cores together at the end. 4.
- To maintain IP66/68, ensure the thread gasket ① is in place. Screw the inner ② into the apparatus 5 and tighten to the installation torque using a CCG Spanner ${ar O}$. If the apparatus is untapped use a locknut. Pass the bundled cable cores through the outer nut ④ and the body ③. Pass the bundled cables cores through the inner ${}^{\textcircled{O}}$ and inner diaphragm seal and splay the armour wires over the cone 5
- Tighten the body 3 onto the inner 2 until hand tight, then tighten with a CCG Spanner 3 with 36. turn to lock the armour between the cone ${\mathbb S}$ and the cone ring ${\mathbb G}$
- Unscrew the body 3. Check that the armour has locked between the cone 5 and the cone ring 67. (0-Ring on the cone ring 6 is sacrificial). Withdraw the barrier pot sub-assembly 8 and bundled cables. Remove the insulation tape.
- Remove the cap 🕕 from resin applicator and attach the mixing nozzle 迎 (use extension nozzle for 8. small multicore cables). Whilst holding the barrier pot sub-assembly ® upright and holding the diaphragm seal firmly against the cable sheath inject the resin into the resin chamber*. Make sure the resin fills the inspectible resin seal pot 9 all the way to the top of the protective resin pot 9 and wipe any excess resin away.

Wait for the resin to set from a liquid to a gel, this should take:

- 15 minutes at 10°C
- 7 minutes at 20°C
- 6 minutes at 30°C
- 5 minutes at 40°C
- For installations in less than 5°C Ambient, warm the Resin Tube in warm water at ± 50°C. If there is still resin left in the tube, discard the mixing nozzle 0 and replace the cap 1 for use with the next gland.

* The installation is acceptable of the cable sheath is pushed 2mm or 3mm into the resin seal.

- Re-insert the barrier pot sub-assembly \circledast back into the inner @. 9.
- 10. Tighten the body \Im onto the inner \oslash to the required torque using a CCG Spanner \oslash . The Variable Deluge Seal[™] will engage automatically as the body ③ is tightened onto the inner ②. Tighten the outer nut \oplus to produce a moisture proof seal by turning until the seal makes contact with the outer sheath of cable and then make one full turn.

