



BS EN ISO 9001 CERTIFIED

PRATLEY

www.pratley.com

EZEE-SEAL BARRIER GLANDS

Ex d/e
IP68



**EZEE-SEAL
BARRIER COMPRESSION
GLAND**



**EZEE-SEAL
BARRIER
GLAND**

**PATENTED
NEW
TECHNOLOGY!**



SUPPLIED WITH UNIQUE NEW TECHNOLOGY CURING COMPOUND

CERTIFICATION



MS CERTIFICATE Nº
SABS MS/09-288U
SABS MS/10-734U

Ex d I/IIC Ex e I/II

IEC/SANS 60079-0
IEC/SANS 60079-1
IEC/SANS 60079-7
IEC/SANS 61241
IP68

SUITABLE FOR USE IN
ZONE 1,2,20,21 & 22

GROUPS I, IIA, IIB & IIC
SURFACE
&
UNDERGROUND
- DIRECT ENTRY.

FEATURES & BENEFITS

- **Ultra Fast Curing Compound - Ready for use in just 5 min!**
- **No Gas Diffusion - Ultra Safe even in Hydrogen & Methane.**
- **Proper Adhesion to Cable Cores (Unlike ordinary Barrier Gland compounds which do not adhere to P.V.C. & rubber insulation).**
- **Fully Inspectable Seal.**
- **Quick & Easy to install - Takes just 5 min.**
- **Available in Metric & Npt threads.**

POLICY STATEMENT

"The performance of our products must exceed all others on the world market"

KGM Prately
CEO

Ex d e EZEE-SEAL BARRIER GLANDS

Brand New Patented Technology!

Currently available Barrier glands invariably employ slow curing epoxy based mastic compounds.

The surface energy of these curable mastics together with the very low surface energies typical of the polymeric insulation on cable conductors (viz. PVC & Silicone) combines to render proper bond formation thermodynamically impossible.

The dangerous consequence is an imperfect barrier with an omnipresent capillary gap between barrier the compound and the cable cores.

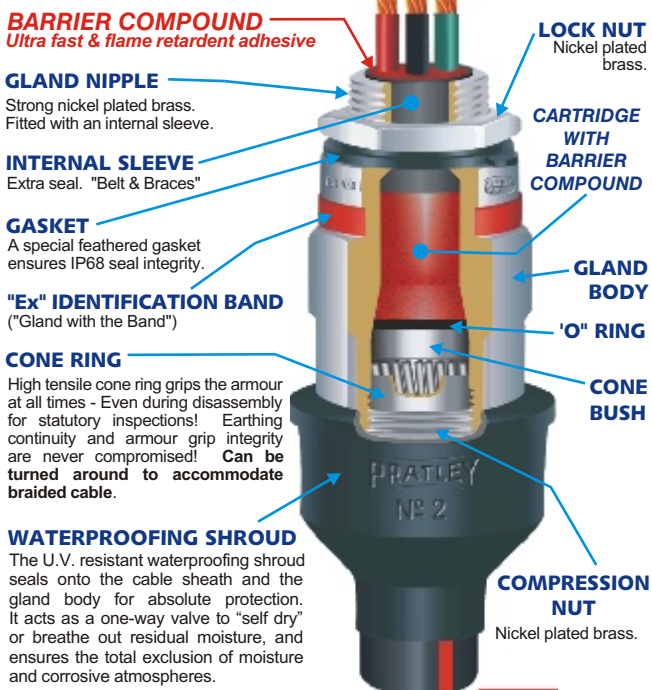
Explosive gasses, especially ones with low molecular weight like Hydrogen (H₂), will diffuse along these capillary paths and invalidate the integrity of the barrier. This is life threatening and is a flaw intrinsic to this old technology.

The Pratley Ezee-Seal Barrier Gland employs a **totally new patented technology**. Cutting edge adhesives science ensures a capillary-free and completely safe barrier in just 5 minutes! The adhesive compound forms a true chemical bond to the cable core insulation and it's delightfully easy to use.

It saves labour time, installation time, down time and it ensures absolute safety.

PRATLEY Ex d e EZEE-SEAL BARRIER CABLE GLAND

For use with SWA cable.



BARRIER COMPOUND
Ultra fast & flame retardent adhesive

LOCK NUT
Nickel plated brass.

GLAND NIPPLE
Strong nickel plated brass. Fitted with an internal sleeve.

INTERNAL SLEEVE
Extra seal. "Belt & Braces"

GASKET
A special feathered gasket ensures IP68 seal integrity.

"Ex" IDENTIFICATION BAND
("Gland with the Band")

CONE RING
High tensile cone ring grips the armour at all times - Even during disassembly for statutory inspections! Earthing continuity and armour grip integrity are never compromised! Can be turned around to accommodate braided cable.

WATERPROOFING SHROUD
The U.V. resistant waterproofing shroud seals onto the cable sheath and the gland body for absolute protection. It acts as a one-way valve to "self dry" or breathe out residual moisture, and ensures the total exclusion of moisture and corrosive atmospheres.

COMPRESSION NUT
Nickel plated brass.

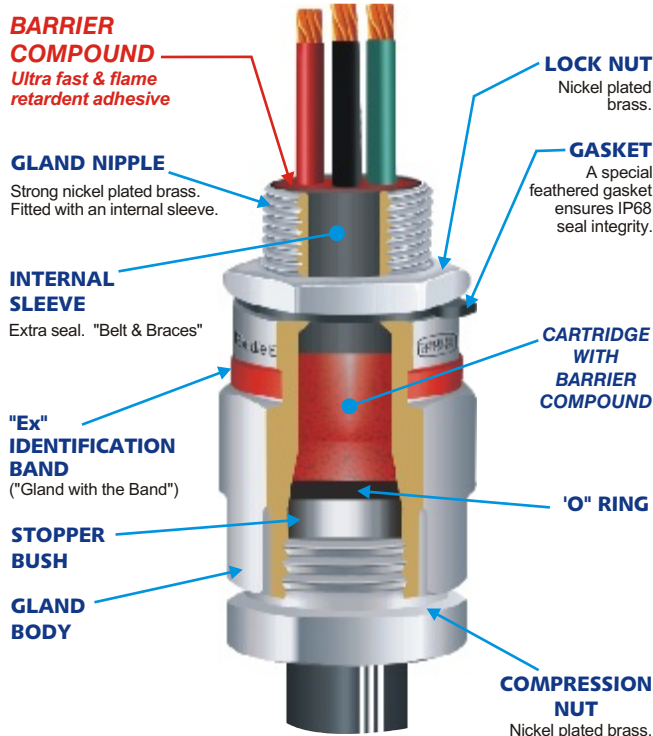
CONE RING can also accommodate braided cable
This way for armoured cable
This way for braided cable

Dual certified Ex d/e to SANS/IEC 61241, 60079-0, 60079-1 and 60079-7 for Group I, IIA, IIB and IIC enclosures. Mines and Surface Certificate No. SABS MS/09-288U

Will maintain IP68 rating of enclosure. Fully certified to SANS and IEC specifications for use on Ex d and Ex e apparatus in **Zone 1** areas and all gas groups.

PRATLEY Ex d e EZEE-SEAL BARRIER COMPRESSION CABLE GLAND

For use with unarmoured cable.



Dual certified Ex d/e to SANS/IEC 61241, 60079-0, 60079-1 and 60079-7 for Group I, IIA, IIB and IIC enclosures. Mines and Surface Certificate No. SABS MS/10-734U.

Will maintain IP68 rating of enclosure. Fully certified to SANS and IEC specifications for use on Ex d and Ex e apparatus in **Zone 1** areas and all gas groups.

GLAND SELECTION CHART								
DIMENSION	GLAND SIZE							
	0	1	2	3	4	5	6	
METRIC	M20 X 1.5	M20 X 1.5	M25 X 1.5	M32 X 1.5	M40 X 1.5	M50 X 1.5	M63 X 1.5	
NPT	½	½ & ¾	¾ & 1	1 & ¼	1 ½ & 1 ¾	1 ¾ & 2	2 & 2 ½	
Ø 1 Bedding	Min	8	11,4	14,5	19,2	25,2	33,6	42,4
	Max	11,4	14,5	19,2	25,2	33,6	42,4	54,8
Ø 2 Outer Sheath	Min	12,7	17,5	20,0	25,6	32,4	42,4	52,7
	Max	17,5	20,7	26,4	33,1	42,4	52,7	65,9

Supplied complete with Locknut, Gasket & Shroud.

Ex d e EZEE-SEAL BARRIER GLAND					
DESCRIPTION	CATL NO.	DESCRIPTION	CATL NO.	DESCRIPTION	CATL NO.
No. 0 M20	16300	No. 0 NPT ½"	16301	No. 4 NPT 1 ¼"	16312
No. 1 M20	16302	No. 1 NPT ½"	16303	No. 4 NPT 1 ½"	16313
No. 2 M25	16305	No. 1 NPT ¾"	16304	No. 5 NPT 1 ½"	16315
No. 3 M32	16308	No. 2 NPT ¾"	16306	No. 5 NPT 2"	16316
No. 4 M40	16311	No. 2 NPT 1"	16307	No. 6 NPT 2"	16318
No. 5 M50	16314	No. 3 NPT 1"	16309	No. 6 NPT 2 ½"	16319
No. 6 M63	16317	No. 3 NPT 1 ¼"	16310		

Supplied complete with Locknut, Gasket & Shroud.

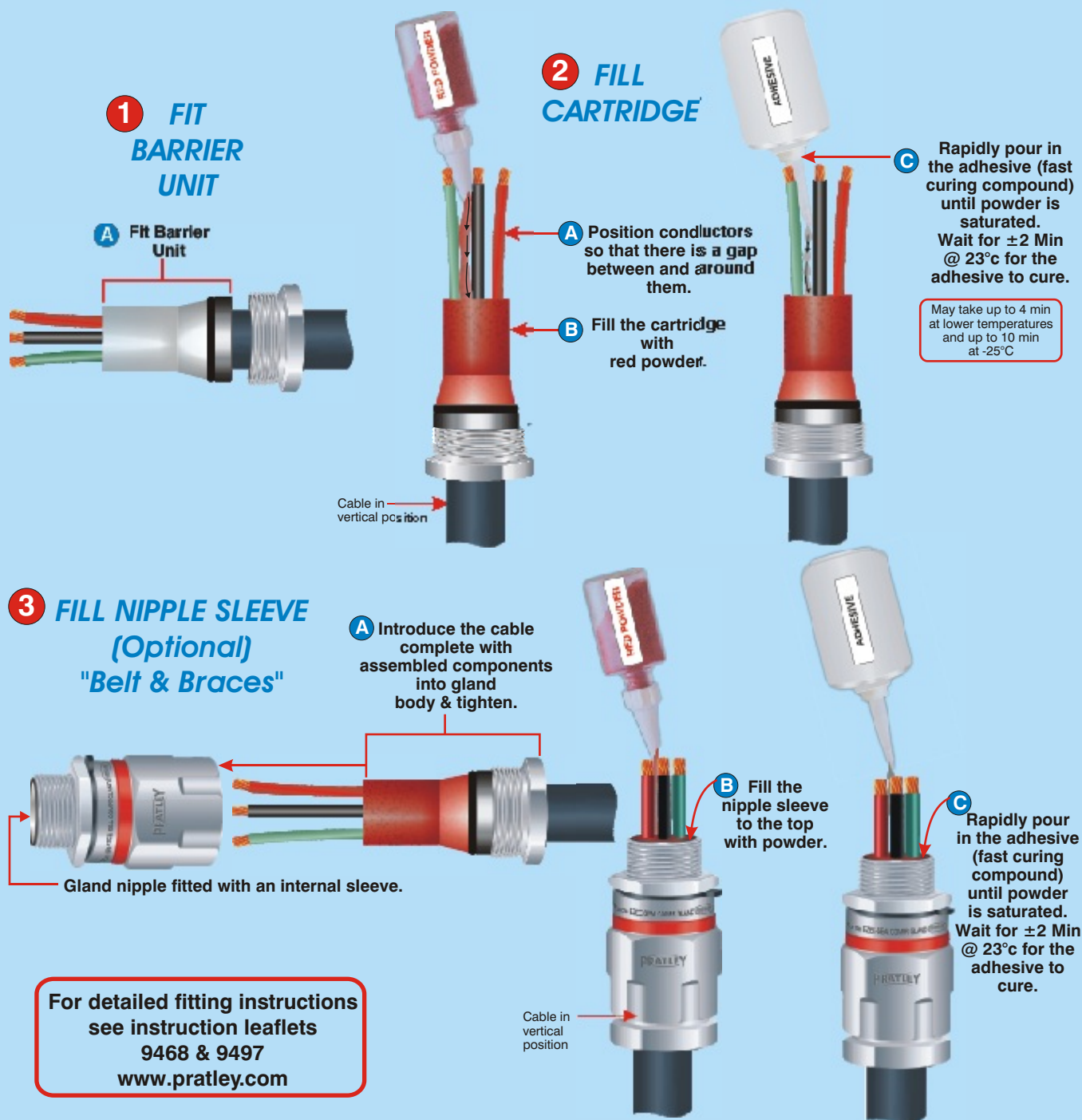
GLAND SELECTION CHART								
DIMENSION	GLAND SIZE							
	0	1	2	3	4	5	6	
METRIC	M20 X 1.5	M20 X 1.5	M25 X 1.5	M32 X 1.5	M40 X 1.5	M50 X 1.5	M63 X 1.5	
NPT	½	½ & ¾	¾ & 1	1 & ¼	1 ½ & 1 ¾	1 ¾ & 2	2 & 2 ½	
Cable Ø	Min	8	11,4	14,5	19,2	25,2	33,6	42,4
	Max	11,4	14,5	19,2	25,2	33,6	42,4	54,8

Supplied complete with Locknut & Gasket

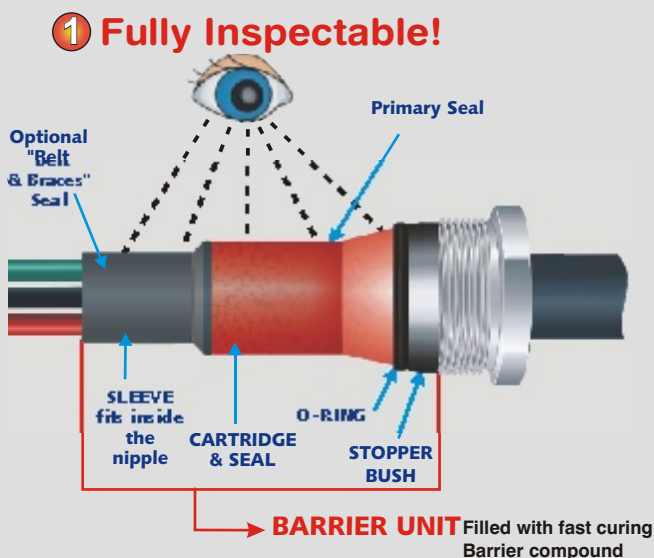
Ex d e EZEE-SEAL BARRIER GLAND					
DESCRIPTION	CATL NO.	DESCRIPTION	CATL NO.	DESCRIPTION	CATL NO.
No. 0 M20	16330	No. 0 NPT ½"	16331	No. 4 NPT 1 ¼"	16342
No. 1 M20	16332	No. 1 NPT ½"	16333	No. 4 NPT 1 ½"	16343
No. 2 M25	16335	No. 1 NPT ¾"	16334	No. 5 NPT 1 ½"	16345
No. 3 M32	16338	No. 2 NPT ¾"	16336	No. 5 NPT 2"	16346
No. 4 M40	16341	No. 2 NPT 1"	16337	No. 6 NPT 2"	16348
No. 5 M50	16344	No. 3 NPT 1"	16339	No. 6 NPT 2 ½"	16349
No. 6 M63	16347	No. 3 NPT 1 ¼"	16340		

Use catalogue Number when ordering.

HOW DOES THIS NEW TECHNOLOGY WORK?



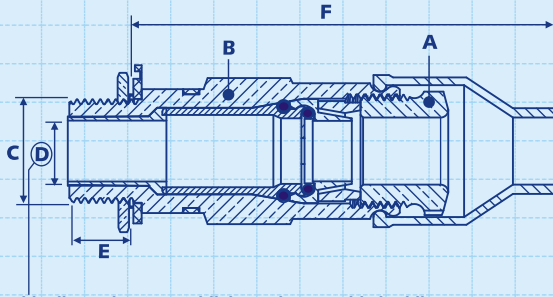
PRATLEY BARRIER GLANDS: THE ULTRA SAFE OPTION!



- Unlike ordinary barrier glands, an ultra fast curing compound ensures proper adhesion to cable conductors.
- Creates an ultra safe Barrier which eliminates dangerous gas diffusion, including Hydrogen.

DIMENSIONS & SPECIFICATIONS

PRATLEY Ex d/e EZEE-SEAL BARRIER CABLE GLAND



Use this dimension to establish maximum cable bedding size gland can accommodate.

		DIMENSIONS (mm)						
Gland size		0	1	2	3	4	5	6
A - Compression Nut	A/F	22.0	25.7	33.0	40.0	50.0	65.0	76.0
	A/C	24.2	29.7	38.1	46.2	55.9	75.1	87.8
B - Body	A/F	25.0	28.0	35.3	42.4	55.0	70.0	82.5
	A/C	28.9	32.3	40.8	49.0	62.3	80.2	92.2
C - Nipple Thread		M20 x 1.5P	M20 x 1.5P	M25 x 1.5P	M32 x 1.5P	M40 x 1.5P	M50 x 1.5P	M63 x 1.5P
D - Nipple Bore of sleeve		11.8	14.6	19.3	25.3	33.7	42.6	55.1
E - Nipple Length		12.4	12.4	12.4	12.4	12.4	14.4	14.4
F - Max. Protrusion		81.5	84.5	93.4	106.6	112.9	121.7	132.3
Overall Length		93.9	96.9	105.8	119.0	125.3	136.1	146.7

All dimensions in millimeters.

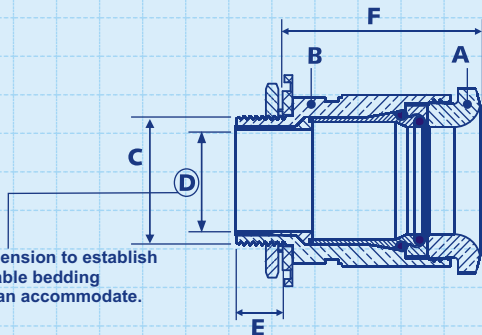
SPECIFICATION GUIDE

Note*: Specifiers may use this wording to specify Barrier Glands.

The Gland must:

- Comply with IEC and SANS Ex d/e Standards 60079-0, 60079-1 & 60079-7.
- Be designed so that the barrier seal and armour clamping are fully inspectable per SANS/IEC 10086.
- Have a red coloured Ex identification band.
- Employ a red colour barrier sealing compound comprising adhesive system which cures in less than 5 minutes.
- Incorporate an adhesive which chemically bonds to the conductor insulation (including silicone insulation).
- Be supplied complete with Nipple Gasket and waterproofing Shroud.

PRATLEY Ex d/e EZEE-SEAL BARRIER COMPRESSION CABLE GLAND



Use this dimension to establish maximum cable bedding size gland can accommodate.

		DIMENSIONS (mm)						
Gland size		0	1	2	3	4	5	6
A - Compression Nut	A/F	23.0	25.7	33.0	42.4	50.0	65.0	76.0
	A/C	27.0	28.7	36.9	47.6	55.9	75.1	87.8
B - Body	A/F	25.0	28.0	35.3	42.4	55.0	70.0	82.5
	A/C	28.2	31.7	40.1	47.4	62.3	80.2	92.2
C - Nipple Thread		M20 x 1.5P	M20 x 1.5P	M25 x 1.5P	M32 x 1.5P	M40 x 1.5P	M50 x 1.5P	M63 x 1.5P
D - Nipple Bore of sleeve		11.8	14.6	19.3	25.3	33.7	42.6	55.1
E - Nipple Length		12.4	12.4	12.4	12.4	12.4	14.4	14.4
F - Max. Protrusion		47.3	47.8	47.5	48.0	50.8	54.1	54.0
Overall Length		59.7	60.2	59.9	60.4	63.2	68.5	68.4

All dimensions in millimeters.

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The Gland must:

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- Be supplied complete with Nipple Gasket.

PRATLEY EZEE-SEAL BARRIER GLANDS: PACKAGING DATA

PACKAGING DATA				
Gland size	0	1	2	3
Glands per box	1	1	1	1
Carton Dim. (mm)	177 x 118 x 51	177 x 118 x 51	177 x 118 x 51	177 x 118 x 51
Weight (kg) per box	0.27	0.30	0.38	0.51
Gland size	4	5	6	
Glands per box	1	1	1	
Carton Dim. (mm)	135 x 135 x 140	135 x 135 x 140	135 x 135 x 140	
Weight (kg) per box	0.84	1.38	1.83	

