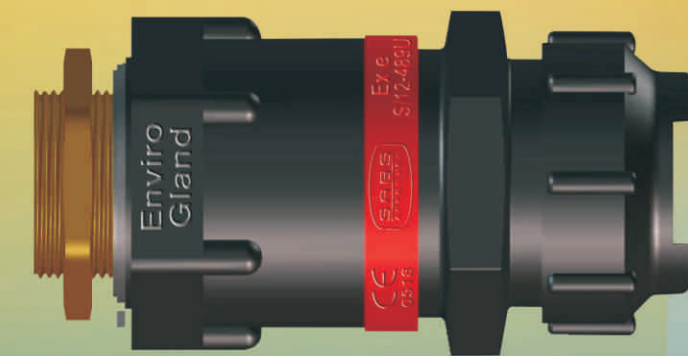




# PRATLEY®

www.pratley.com

## ENVIROGLAND RANGE



Ex e ENVIROGLAND FOR SWA CABLE



Ex e/d ENVIRO COMPRESSION GLAND  
FOR UNARMoured CABLE

**WILL NOT  
CRACK!**



**ULTIMATE RESISTANCE TO CORROSIVE ENVIRONMENTS**

### CERTIFICATION



#### ENVIROGLAND

I.A N° S/12-489U  
Ex e • IP68

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

EN 50014 • EN 50019 • EN 50281-1-1

#### ENVIRO COMPRESSION GLAND

I.A N° S/12-489U

Ex d IIA/IIB • Ex e I/IIB

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

IP68

EN 50014 • EN 50019  
EN 50281-1-1

Suitable for use in  
Zone 1, 2, 21 and 22 areas

EEx e II

Sira 04ATEX3367

IECEX SIR 05 0057X



CE 0518

## FEATURES & BENEFITS

- Unique hazardous Ex identification band
- “THE GLAND WITH THE BAND”
- No special spanners.
- Ultra tough - “WILL NOT CRACK” when tightening!
- High tensile brass internal components.
- Built-in safety gauge.
- Sizes 0 - 5 Enviro Compression Glands are dual certified for use on all Ex e and Ex d group II A and II B apparatus.
- IP68 rated.
- Accessories available.

### POLICY STATEMENT

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

KGM Pratty  
CEO

## PRATLEY ENVIROGLANDS & ACCESSORIES

### PRATLEY STANDARD ENVIRO AND ENVIRO COMPRESSION GLANDS

#### PRATLEY ENVIRO COMPRESSION GLANDS

The standard Pratley Enviro Compression Gland is designed to withstand corrosive\* environments. It is dual certified for use on all Ex e and Ex d group II A and II B apparatus (Sizes 0 - 5 Enviro Compression Gland). Supplied with a locknut and nipple sealing gasket.



\* NOTE: For strongly Acidic environments see Special Enviro compression glands below.

GLAND SELECTION CHART - ENVIRO COMPRESSION											
Gland size	00	0s	0	1	2	3	4	5	6*	7*	
Catalogue No.	32109	32108	32100	32101	32102	32103	32104	32105	32106	32107	
Cable Dia. Range	Min.	4.0	4.0	8.0	12.6	15.7	20.4	26.3	34.7	43.3	55.8
	Max.	8.0	8.0	12.6	15.7	20.4	26.3	34.7	43.3	55.8	67.5

Use catalogue number when ordering.

\*SAFETY NOTE: SIZES 6 & 7 ARE Ex e NOT Ex d CERTIFIED.

• SIZES 6 & 7 SUPPLIED WITH 2 SETS OF SEALS TO ACCOMMODATE THE RANGE OF CABLE SIZES.

#### PRATLEY ENVIROGLANDS

The standard Pratley Envirogland is designed to withstand corrosive\* environments. It is certified for use on all Ex e apparatus. Supplied with a locknut and nipple sealing gasket.



\* NOTE: For strongly Acidic environments see Special Enviroglands below.

GLAND SELECTION CHART - PRATLEY ENVIROGLAND												
Gland size	00	0s	0	1	2	3	4	5	6	7		
Catalogue No.	31998	31999	32000	32001	32002	32003	32004	32005	32006	32007		
Diameter over cable bedding	Max.	8.5	8.5	12.6	15.7	20.4	26.3	34.7	43.3	55.8	67.5	
	Min.	6.0	6.0	8.5	12.6	15.7	20.4	26.3	34.7	43.3	55.8	
Overall cable diameter	Max.	16.0	16.0	18.6	22.0	27.3	33.5	43.2	53.5	67.2	79.0	
	Min.	10.0	10.0	12.6	15.4	22.0	24.3	33.5	43.2	53.5	67.2	

Use catalogue number when ordering.

### PRATLEY SPECIAL ENVIROGLANDS

#### ENVIROGLANDS FOR STRONGLY ACIDIC ENVIRONMENTS

These green coloured glands are specially designed to withstand strong inorganic acids. They have superior chemical resistance but slightly reduced mechanical strength.



GLAND SELECTION CHART - PRATLEY ENVIROGLAND (GREEN)											
Gland size	00	0s	0	1	2	3	4	5	6	7	
Catalogue No.	32033	32032	32021	32022	32023	32024	32025	32026	32027	32028	
Diameter over cable bedding	Max.	8.5	8.5	12.6	15.7	20.4	26.3	34.7	43.3	55.8	67.5
	Min.	6.0	6.0	8.5	12.6	15.7	20.4	26.3	34.7	43.3	55.8
Overall cable diameter	Max.	16.0	16.0	18.6	22.0	27.3	33.5	43.2	53.5	67.2	79.0
	Min.	10.0	10.0	12.6	15.4	22.0	24.3	33.5	43.2	53.5	67.2

#### ENVIROGLANDS WITH NPT NIPPLES

Because of the unique nipple design and taper in the thread, no gasket or locknut is required. These Enviroglands are available on request.

For further information, please contact Pratley.

ENVIROGLAND WITH NPT NIPPLES			
Gland size	0	1	2
Catalogue Number	32029	32030	32031
NPT Nipple Thread Size	½ inch	¾ inch	1 inch



#### ENVIROGLANDS FOR BRAIDED CABLE

These Enviroglands incorporate a Cone Bush and Cone Ring which are specially designed for braided cable.



ENVIROGLAND FOR BRAIDED CABLE						
Gland size	0	1	2	3	4	5
Catalogue Number	32040	32041	32042	32043	32044	32045
Diameter over cable bedding	Max.	12.6	15.7	20.4	26.3	34.7
	Min.	8.5	12.6	15.7	20.4	26.3

#### ENVIROGLANDS FOR LEAD SHEATH CABLE

These Enviroglands incorporate a custom made lead bush which is designed specifically for lead sheath cable.



NOTE: When ordering Enviroglands for lead sheath cable, please specify the cable bedding diameter.

For further information, please contact Pratley.

### PRATLEY SPECIAL ENVIRO COMPRESSION GLANDS

#### ENVIRO COMPRESSION GLANDS FOR STRONGLY ACIDIC ENVIRONMENTS

These green coloured glands are specially designed to withstand strong inorganic acids. They have superior acid resistance but slightly reduced mechanical strength.



ENVIRO COMPRESSION (GREEN) STAINLESS STEEL						
Gland size	00	0s	0	1	2	
Catalogue No.	32125	32126	32127	32128	32129	
Cable Dia. Range (mm)	Min.	4.0	4.0	8.0	12.6	15.7
	Max.	8.0	8.0	12.6	15.7	20.4

GLAND SELECTION CHART - ENVIRO COMPRESSION (GREEN) BRASS											
Gland size	00	0s	0	1	2	3	4	5	6*	7*	
Catalogue No.	32110	32111	32112	32113	32114	32115	32116	32117	32118	32119	
Cable Dia. Range (mm)	Min.	4.0	4.0	8.0	12.6	15.7	20.4	26.3	34.7	43.3	55.8
	Max.	8.0	8.0	12.6	15.7	20.4	26.3	34.7	43.3	55.8	67.5

#### ENVIRO COMPRESSION GLANDS WITH NPT NIPPLES

Because of the unique nipple design and taper in the thread, no gasket or locknut is required. These Enviro Compression glands are available on request.

For further information, please contact Pratley.



ENVIRO COMPRESSION GLAND NPT NIPPLES					ENVIRO COMPRESSION GLAND - NPT NIPPLES (GREEN) STAINLESS STEEL				
Gland size	0s	0	1	2	Gland size	0s	0	1	2
NPT Nipple Thread Size	½ inch	½ inch	¾ inch	1 inch	NPT Nipple Thread Size	½ inch	½ inch	¾ inch	1 inch
Catalogue No.	32121	32122	32123	32124	Catalogue No.	32200	32201	32202	32203

### ACCESSORIES FOR ENVIRO COMPRESSION GLANDS

#### COMPRESSION KIT FOR INSTRUMENTATION CABLE

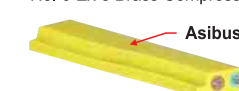
No. 0sxs kit reduces the capacity of No. 0s Enviro Compression gland to accommodate 3 - 6 mm diameter instrumentation cable.



PRATLEY No. 0sxs COMPRESSION KIT FOR SIZE No. 0S	
Gland size	0sxs
Catalogue No.	13072
Usual Pack Qty.	10

#### PRATLEY ASIBUS COMPRESSION BUSH

For use in a Pratley No. 0 Ex e/d Enviro Compression Gland and a Pratley No. 0 Ex e Brass Compression Gland.



PRATLEY ASIBUS COMPRESSION BUSH	
Gland size	0
Catalogue No.	13069
Usual Pack Qty.	10

**Pratley (Pty) Limited** (Reg. No. 1996/003890/07) An Affiliate of the Pratley Group of Companies  
Jackson Street • Fictoria • Krugersdorp • Gauteng - Telephone +27 11 955 2190/8 • Fax +27 11 955 3918  
PO Box 3055, Kenmare 1745 • Gauteng • South Africa - e-mail: sales@pratley.co.za • **www.pratley.com**

Find us on  
**Facebook**



PRATLEY ENVIROGLAND RANGE

MECHANICALLY TESTED

The Pratley range of Enviro Glands comply fully with International (IEC & ATEX) and South African Ex specifications as well as SANS 1213 (Mechanical Cable Glands). Even the demanding torque requirement is achieved without the use of special spanners. Other tests include thermally cycled earth continuity tests, resistance to slip tests and seal tests.

Resistance to slip test

In accordance with the IEC/SANS 60079-7 specification.

IP68 SEALED

Internal brass components are totally sealed from the environment. A nipple gasket and an integral 'O' ring maintain the ingress protection of enclosures to the demanding IP66 and IP68 rating.

Seal test

In accordance with the IEC/SANS 60529, IEC/SANS 61241-0, 61241-1 and IP 68 specifications.

EXTENSIVE ENVIRONMENTAL TESTING

Pratley Enviroglands were subjected to Ultra Violet radiation, salt spray test, long term creep loads, actual weathering and numerous different accelerated chemical corrosive environment tests for a full four years before being released onto the market.



Salt spray tester simulating exposure to salt water.



Pratley desiccators simulating long term exposure to various vapours and environments.

ULTRA-TOUGH PLASTIC ENCAPSULATED BRASS BODY

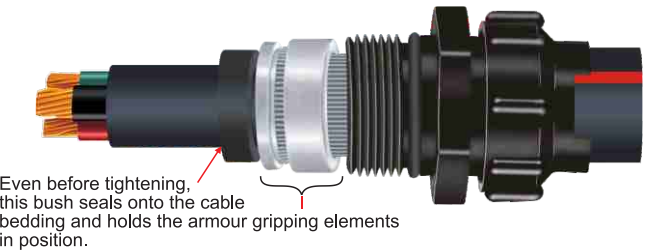
The ultra tough reinforced engineering plastic is specially designed to not only resist chemical attack but to withstand severe mechanical abuse.



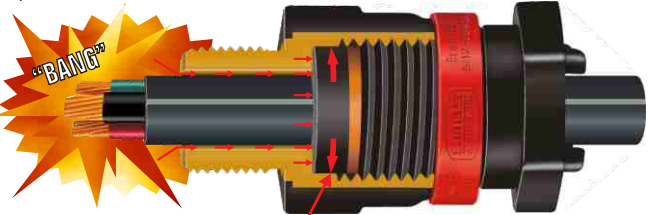
EASY TO INSTALL

Simply choose the correct gland size. Each gland is supplied with a comprehensive pictorial instruction leaflet in English and Afrikaans. Pratley fail-safe design ensures longevity of Ex e or Ex d rating where applicable.

SAFETY FEATURES OF PRATLEY FAIL SAFE STRETCH-ON BUSHES



Even before tightening, this bush seals onto the cable bedding and holds the armour gripping elements in position.



FAIL SAFE! Ex d DESIGN

Explosive pressure increases effectiveness of seal. Well proven tough internal brass and rubber components employ the same fail safe design principles as Pratley Flameproof Glands.

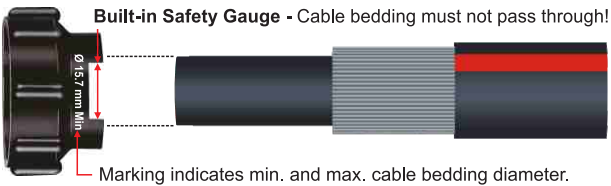
Ex IDENTIFICATION  
"THE GLAND WITH THE BAND"

Pratley Enviroglands are clearly marked with a coloured identification band. The band is embossed with the gland certification details. This is to ensure safe installation and ease of inspection in hazardous areas.



BUILT-IN SAFETY GAUGES

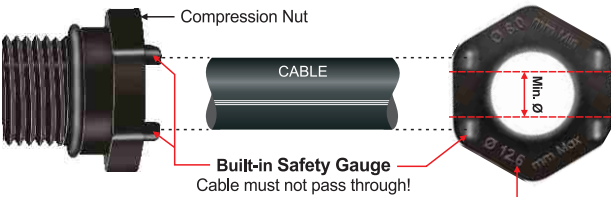
ENVIRO GLAND



Built-in Safety Gauge - Cable bedding must not pass through!

Marking indicates min. and max. cable bedding diameter.

ENVIRO COMPRESSION GLAND



Built-in Safety Gauge - Cable must not pass through!

Marking indicates min. and max. cable bedding diameter.

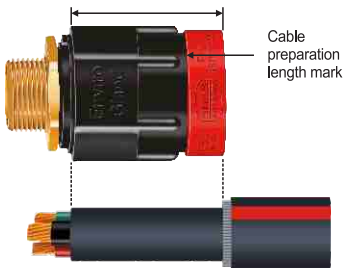
**Safety Note!**  
Failure to select the correct gland size will compromise the Ex d/e and IP rating of the installation.

CABLE PREPARATION GAUGE  
ENVIROGLAND (ARMOURED CABLE)

This gauge ensures quick and accurate cable preparation.

EXPOSED BEDDING MEASUREMENT

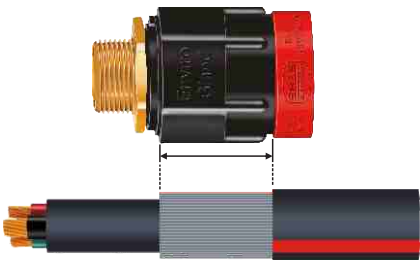
Use this length as measurement of exposed bedding.



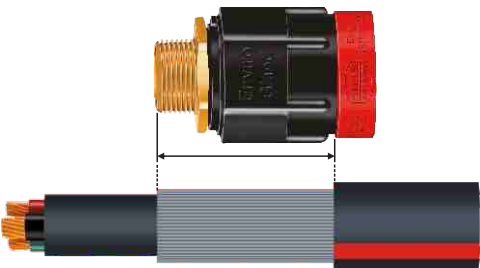
Cable preparation length mark

EXPOSED ARMOURING MEASUREMENT

Use this length as measurement of exposed armouring IF outer sheath of cable can pass through compression nut.



Use this length as measurement of exposed armouring IF outer sheath of cable is to big to pass through compression nut.



Ex e ENVIROGLAND

BRASS NIPPLE

High-tensile brass nipple allows very generous tightening.

GASKET

A special feathered gasket ensures seal integrity.

STRETCH ON INNER SEAL

Specially formulated rubber, ensures a high integrity (IP 68) inner seal. The sealing bush also assists assembly by conveniently holding the cone bush in position.

CONE RING

Fail safe design employs this unique high tensile cone ring which grips the armour at all times - Even during disassembly for statutory inspections! Earthing continuity and armour grip integrity are never compromised.

'O' RING SEAL

Ensures total IP 68 sealing of the body against ingress of water and dirt.

BUILT-IN SAFETY GAUGE

Maximum and minimum cable bedding sizes are engraved. An easy to use notched gauge for measuring cable size is also built into the nut for added safety.

LOCKNUT

Supplied complete with brass locknut. Larger sizes have castellated locknuts for ease of tightening.

LOOSE CONE BUSH

Made from special distortion resistant brass, this vastly superior loose cone design ensures:  
• Automatic self centering under the armour wires to achieve the very best grip possible!  
• The armour wires are held properly in position prior to and during assembly.  
• Complete armour grip integrity even during disassembly for statutory inspections!  
• True fail safe design.

GLAND BODY

High tensile brass inner, encapsulated with reinforced engineering plastic. WILL NOT CRACK!

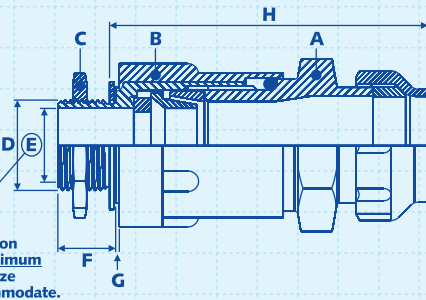
Ex IDENTIFICATION BAND

Coloured identification band engraved with gland certification details.

COMPRESSION NUT

Ultra tough engineering plastic Compression Nut. Incorporates a back nut with IP 68 outer seal.

DIMENSIONS & SPECIFICATIONS



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

DIMENSIONS (mm)		00	0s	0	1	2	3	4	5	6	7
A - Compression Nut	A/F	32.0	32.0	32.0	35.0	41.5	50.0	63.0	77.5	98.0	104.0
	A/C	37.0	37.0	37.0	40.4	47.9	57.3	72.7	89.5	113.0	120.0
B - Body	A/F	27.5	27.5	27.5	31.6	40.0	49.0	58.0	74.5	88.0	100.0
	A/C	31.8	31.8	31.8	36.5	46.2	56.6	67.0	77.3	101.6	115.5
C - Locknut	A/F	19.0	27.0	27.0	27.0	35.0	41.0	55.0	63.0	80.0	95.0
	A/C	22.0	31.2	31.2	31.2	40.4	47.3	63.5	72.7	92.4	109.7
D - Nipple Thread	M16 x 1.5P	M20 x 1.5P	M20 x 1.5P	M20 x 1.5P	M25 x 1.5P	M25 x 1.5P	M32 x 1.5P	M40 x 1.5P	M50 x 1.5P	M63 x 1.5P	M75 x 1.5P
E - Nipple Bore		10.7	12.6	12.6	15.7	20.4	26.3	34.7	43.3	55.8	67.5
F - Nipple Length		16.0	16.0	16.0	16.0	16.0	16.5	21.0	22.0	27.0	27.0
G - Spigot		N/A	N/A	N/A	1.0	1.0	1.0	1.0	1.0	1.0	1.0
H - Max. Protrusion		75.7	75.7	75.7	81.0	90.3	96.5	103.0	124.0	121.0	132.0
Overall Length		89.5	89.5	89.5	94.5	104.0	112.0	121.5	148.5	145.0	156.0

All dimensions in millimeters.

SPECIFICATION GUIDE

\*Note: Specifiers may use this wording to specify the Pratley Envirogland.

The Envirogland must:

- Have a plastic encapsulated brass body.
- Incorporate an 'O' ring seal between body and compression nut.
- Have a coloured Ex identification band.
- Have a loose cone bush.
- Be supplied complete with brass locknut.
- Incorporate a safety gauge.

PACKAGING DATA

Gland size	00	0s	0	1	2	3	4	5	6	7
Glands per box	10	10	10	10	5	5	5	1/bag	1/bag	1/bag
Bags per Carton	N/A	N/A	N/A	N/A	N/A	N/A	N/A	9	5	4
Carton Dim. (mm)	165 x 80 x 90	165 x 80 x 90	165 x 80 x 90	185 x 85 x 98	218 x 85 x 110	250 x 85 x 112	320 x 80 x 122	265 x 80 x 175	265 x 80 x 175	265 x 80 x 175
Weight (kg) / box	1.02	1.14	1.30	1.74	1.08	1.30	1.14	0.98/bag	1.44/bag	1.84/bag

Ex e/d ENVIRO COMPRESSION GLAND

BRASS NIPPLE

High tensile brass nipple allows very generous tightening.

GASKET

Special feathered gasket ensures seal integrity.

COMPRESSION BUSH

Generously dimensioned specially formulated, creep resistant rubber spreads the clamping load and reduces cable distortion.

'O' RING

Ensures total IP 68 sealing of the body against ingress of water and dirt.

BUILT-IN SAFETY GAUGE

Engraved minimum and maximum cable diameter limits. Cable must not pass through the built-in safety gauge.

LOCKNUT

Supplied complete with brass locknut. Size 7 has a castellated locknut for ease of tightening.

GLAND BODY

High tensile brass inner, encapsulated with ultra tough reinforced engineering plastic. WILL NOT CRACK!

PLASTIC SKID WASHER

Ensures bush compression even with excessive torque without damaging the bush.

Ex IDENTIFICATION BAND

Coloured identification band engraved with gland certification details.

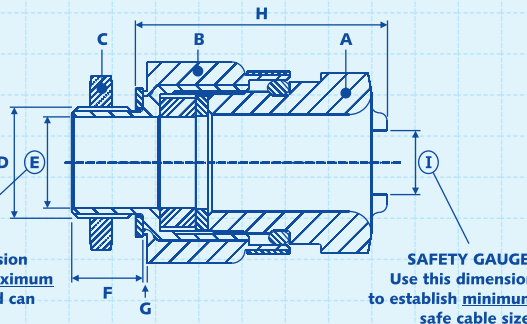
COMPRESSION NUT

Manufactured from Ultra tough reinforced engineering plastic.

WATERPROOFING

Pratley Enviro Compression Glands automatically seal against the ingress of moisture. IP68

DIMENSIONS & SPECIFICATIONS



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

SAFETY GAUGE!  
Use this dimension to establish minimum safe cable size.

DIMENSIONS (mm)		00	0s	0	1	2	3	4	5	6	7
A - Compression Nut	A/F	28.0	28.0	28.0	32.0	41.2	50.0	59.0	77.5	86.0	97.0
	A/C	32.3	32.3	32.3	36.9	47.6	57.7	57.7	89.5	99.3	112.0
B - Body	A/F	27.7	27.7	27.7	31.5	40.0	48.5	57.3	74.4	88.0	96.0
	A/C	32.0	32.0	32.0	36.4	46.2	56.0	66.2	86.0	101.6	110.9
C - Locknut	A/F	19.0	27.0	27.0	27.0	35.0	41.0	55.0	63.0	80.0	95.0
	A/C	22.0	31.2	31.2	31.2	40.4	47.3	63.5	72.7	92.4	109.7
D - Nipple Thread	M16 x 1.5P	M20 x 1.5P	M20 x 1.5P	M20 x 1.5P	M25 x 1.5P	M25 x 1.5P	M32 x 1.5P	M40 x 1.5P	M50 x 1.5P	M63 x 1.5P	M75 x 1.5P
E - Nipple Bore		8.7	8.7	12.7	15.7	20.5	26.5	34.9	43.7	56.0	67.7
F - Nipple Length		16.0	16.0	16.0	16.0	16.0	16.5	21.0	22.0	27.0	27.0
G - Spigot		N/A	N/A	N/A	0.85	1.0	1.0	1.0	1.0	3.0	3.0
H - Max. Protrusion		52.2	50.7	50.5	50.0	56.4	65.0	65.8	99.1	132.6	143.8
I - Min. safe cable Ø		4.0	4.0	8.0	12.6	15.7	20.4	26.3	34.7	43.3	55.8
Overall Length		66.6	65.1	64.9	64.4	70.8	79.9	85.2	119.5	158.0	169.2

All dimensions in millimeters.

SPECIFICATION GUIDE

\*Note: Specifiers may use this wording to specify the Pratley Enviro Compression Gland.

The Enviro Compression Gland must:

- Have a plastic encapsulated brass body.
- Incorporate an 'O' ring seal between body and compression nut.
- Have a coloured Ex identification band.
- Be supplied complete with brass locknut.
- Incorporate a safety gauge on the compression nut.

PACKAGING DATA

Gland size	00	0s	0	1	2	3	4	5	6	7
Glands per bag	10	10	10	10	10	5	5	2	1	1
Bags per Carton	10	10	10	10	5	6	4	6	6	5
Carton Dim. (mm)	265 x 265 x 170									
Weight (kg) per bag	0.76	0.96	0.80	0.80	1.30	1.04	1.58	1.42	1.38	1.68