

Ex d/e FLAMEPROOF TAPER-TECH® CABLE GLAND RANGE

Taper-Tech®
Seal Design

**FAIL-SAFE
DESIGN**



**Ex d/e FLAMEPROOF TAPER-TECH®
 DOUBLE COMPRESSION
 CABLE GLAND**
 (FOR ARMoured & BRAIDED CABLE)

**Ex d/e FLAMEPROOF TAPER-TECH®
 CABLE GLAND
 WITH SHROUD**
 (FOR ARMoured & BRAIDED CABLE)

**Ex d/e FLAMEPROOF TAPER-TECH®
 DOUBLE COMPRESSION
 CABLE GLAND**
 (FOR CIRCULAR
 UNARMoured CABLE)

CERTIFICATION

Ex d/e FLAMEPROOF
 "TAPER-TECH"
 CABLE GLAND RANGE



MASC MS/19-9011X



IECEX ICS 19-0018X

Ex db I Mb • Ex eb I Mb
 Ex db IIC Gb • Ex eb IIC Gb
 Ex nR IIC Gc • Ex ta IIIC Da
 IEC / SANS 60079-0/1
 IEC / SANS 60079-7
 IEC / SANS 60079-15
 IEC / SANS 60079-31
 IEC / SANS 60529
 IP68/66 (350m)
 -35°C → 120°C

Suitable for use in
 Zone 1, 2, 20, 21 & 22 areas

FEATURES & BENEFITS

Ex d/e FLAMEPROOF TAPER-TECH® CABLE GLAND RANGE

- Unique "Taper-Tech Technology" flame seal
- IP66 / 68 rated & tested to 350m continuous immersion!
- Rated service temperature: -35°C to 120°C
- All glands available in metric & NPT
- All internal sealing bushes retained for added safety
- Quad certified Ex d/e/nR/t - Groups I, IIC, & IIIC

Ex d/e FLAMEPROOF TAPER-TECH® DOUBLE COMPRESSION GLAND

- For armoured & braided cable with a reversible cone ring
- A double compression gland with an armour clamping nut and environmental back nut seal
- Available in sizes 0s - 6L

Ex d/e FLAMEPROOF TAPER-TECH® GLAND WITH SHROUD

- For armoured & braided cable with a reversible cone ring
- Available in sizes 0s - 6L with shroud

Ex d/e FLAMEPROOF TAPER-TECH® DOUBLE COMPRESSION GLAND

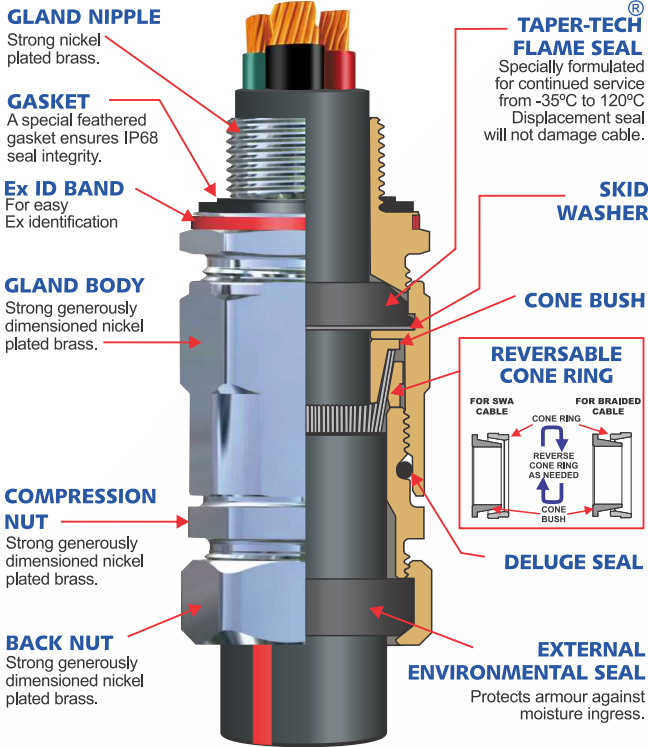
- For circular unarmoured cable
- Also available with hositail
- Available in sizes 00xs - 8

POLICY STATEMENT

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

KGM Prosty

Ex d/e FLAMEPROOF TAPER-TECH®
DOUBLE COMPRESSION CABLE GLAND
(FOR ARMoured AND BRAIDED CABLE)



Quad certified Ex d/e/nR/t to SANS/IEC 60079-0, 60079-1, 60079-7, 60079-15 and 60079-31 for Group I, IIC and IIIC enclosures. Mines and Surface Certificate No. IECEX ICS 19-0018X and MASC MS/19-9011X

Pratley Flameproof Cable Glands are all IP68/66 rated and tested to 350m continuous immersion.

All metallic parts are available in 304/316 Stainless Steel on request.

EASE OF FITTING

Simply choose the correct gland size and follow the pictorial instructions. (Each gland is supplied with a comprehensive and easy to follow pictorial instruction leaflet).

SIZE SELECTION FOR METRIC VERSIONS

Ex d/e FLAMEPROOF TAPER-TECH DOUBLE COMPRESSION CABLE GLANDS - METRIC						
Gland size	Catalogue Number	Nipple Thread Metric	Min. Cable Bedding Dia.	Max. Cable Bedding Dia.	Outer Sheath Min. Dia.	Outer Sheath Max. Dia.
0s	16700	M20 x 1.5P	6.5	8.5	10.3	14.0
0	16701	M20 x 1.5P	8.5	12.6	12.6	18.6
1	16702	M20 x 1.5P	12.6	14.7	16.0	22.1
2	16703	M25 x 1.5P	14.7	20.4	21.5	27.2
3	16704	M32 x 1.5P	20.4	26.3	25.0	33.2
4	16705	M40 x 1.5P	26.3	34.7	32.5	43.2
5	16706	M50 x 1.5P	34.7	43.3	42.0	53.2
6s	16707	M63 x 1.5P	43.3	49.3	52.5	67.0
6L	16708	M63 x 1.5P	49.3	55.8	52.5	67.0

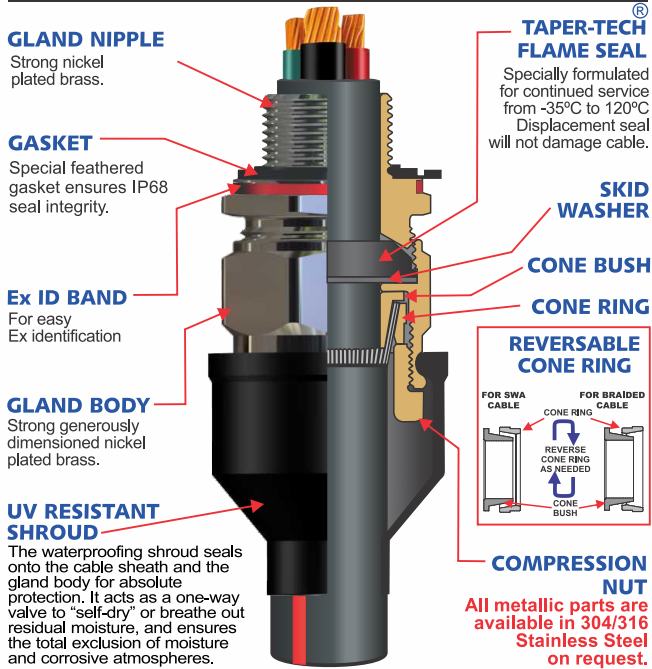
*All measurements in the table above are in millimeters (mm) unless otherwise specified

SIZE SELECTION FOR NPT VERSIONS

Ex d/e FLAMEPROOF TAPER-TECH DOUBLE COMPRESSION CABLE GLANDS - NPT						
Gland size	Catalogue Number	Nipple Thread Metric	Min. Cable Bedding Dia.	Max. Cable Bedding Dia.	Outer Sheath Min. Dia.	Outer Sheath Max. Dia.
0s	16709	1/2"	6.5	8.5	10.3	14.0
0	16710	1/2"	8.5	12.6	12.6	18.6
1	16711	1/2"	12.6	14.7	16.0	22.1
1	16712	3/4"	14.7	20.4	21.5	27.2
2	16713	3/4"	20.4	26.3	25.0	33.2
2	16714	1"	26.3	34.7	32.5	43.2
3	16715	1"	34.7	43.3	42.0	53.2
3	16716	1 1/4"	43.3	49.3	52.5	67.0
4	16717	1 1/4"	49.3	55.8	52.5	67.0
4	16718	1 1/2"				
5	16719	2"				
6s	16720	2 1/2"				
6L	16721	2 1/2"				

*All measurements in the table above are in millimeters (mm) unless otherwise specified

Ex d/e FLAMEPROOF TAPER-TECH®
CABLE GLAND WITH SHROUD
(FOR ARMoured AND BRAIDED CABLE)



SIZE SELECTION FOR METRIC AND NPT VERSIONS

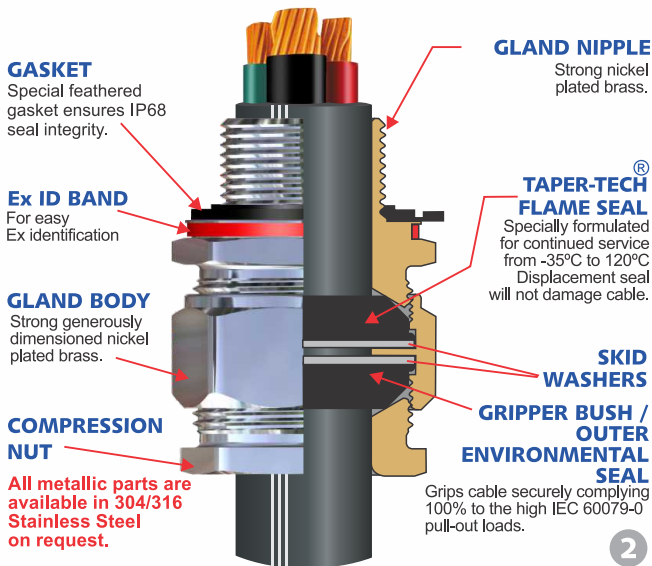
Ex d/e FLAMEPROOF TAPER-TECH CABLE GLANDS WITH SHROUDS - METRIC						
Gland size	Catalogue Number	Nipple Thread Metric	Min. Cable Bedding Dia.	Max. Cable Bedding Dia.	Outer Sheath Min. Dia.	Outer Sheath Max. Dia.
0s	16722	M20 x 1.5P	6.5	8.5	10.3	14.0
0	16723	M20 x 1.5P	8.5	12.6	12.6	18.6
1	16724	M20 x 1.5P	12.6	14.7	16.0	22.1
2	16725	M25 x 1.5P	14.7	20.4	21.5	27.2
3	16726	M32 x 1.5P	20.4	26.3	25.0	33.2
4	16727	M40 x 1.5P	26.3	34.7	32.5	43.2
5	16728	M50 x 1.5P	34.7	43.3	42.0	53.2
6s	16729	M63 x 1.5P	43.3	49.3	52.5	67.0
6L	16730	M63 x 1.5P	49.3	55.8	52.5	67.0

*All measurements in the table above are in millimeters (mm) unless otherwise specified

Ex d/e FLAMEPROOF TAPER-TECH CABLE GLANDS WITH SHROUDS - NPT						
Gland size	Catalogue Number	Nipple Thread Metric	Min. Cable Bedding Dia.	Max. Cable Bedding Dia.	Outer Sheath Min. Dia.	Outer Sheath Max. Dia.
0s	16731	1/2"	6.5	8.5	10.3	14.0
0	16732	1/2"	8.5	12.6	12.6	18.6
1	16733	1/2"	12.6	14.7	16.0	22.1
1	16734	3/4"	14.7	20.4	21.5	27.2
2	16735	3/4"	20.4	26.3	25.0	33.2
2	16736	1"	26.3	34.7	32.5	43.2
3	16737	1"	34.7	43.3	42.0	53.2
3	16738	1 1/4"	43.3	49.3	52.5	67.0
4	16739	1 1/4"	49.3	55.8	52.5	67.0
4	16740	1 1/2"				
5	16741	2"				
6s	16742	2 1/2"				
6L	16743	2 1/2"				

*All measurements in the table above are in millimeters (mm) unless otherwise specified

Ex d/e FLAMEPROOF TAPER-TECH®
DOUBLE COMPRESSION CABLE GLAND
(FOR CIRCULAR UNARMoured CABLE)



Ex d/e FLAMEPROOF TAPER-TECH® DOUBLE COMPRESSION GLAND (FOR CIRCULAR UNARMoured CABLE) SELECTION CHART

Ex d/e FLAMEPROOF TAPER-TECH DOUBLE COMPRESSION CABLE GLANDS - METRIC				
Gland size	Catalogue Number	Nipple Thread Metric	Min. Cable Bedding Dia.	Max. Cable Bedding Dia.
00xs	16744	M16 x 1.5P	3.0	6.0
00	16745	M16 x 1.5P	4.5	8.5
0xs	16746	M20 x 1.5P	3.0	6.0
0s	16747	M20 x 1.5P	4.5	8.5
0	16748	M20 x 1.5P	8.5	12.6
1	16749	M20 x 1.5P	12.6	14.7
2	16750	M25 x 1.5P	14.7	20.4
3	16751	M32 x 1.5P	20.4	26.3
4	16752	M40 x 1.5P	26.3	34.7
5	16753	M50 x 1.5P	34.7	43.3
6s	16754	M63 x 1.5P	43.3	49.3
6L	16755	M63 x 1.5P	49.3	55.8
7s	16756	M75 x 1.5P	55.8	61.7
7L	16757	M75 x 1.5P	61.7	67.5
8	16758	M82 x 1.5P	67.5	73.8

*All measurements in the table above are in millimeters (mm) unless otherwise specified

Ex d/e FLAMEPROOF TAPER-TECH DOUBLE COMPRESSION CABLE GLANDS - NPT				
Gland size	Catalogue Number	Nipple Thread Metric	Min. Cable Bedding Dia.	Max. Cable Bedding Dia.
0xs	16759	½"	3.0	6.0
0s	16760	½"	4.5	8.5
0	16761	½"	8.5	12.6
1	16762	½"	12.6	14.7
1	16763	¾"		
2	16764	¾"	14.7	20.4
2	16765	1"		
3	16766	1"	20.4	26.3
3	16767	1½"		
4	16768	1½"	26.3	34.7
4	16769	1½"		
5	16770	2"	34.7	43.3
6s	16771	2 ½"	43.3	49.3
6L	16772	2 ½"	49.3	55.8
7s	16773	2 ½"	55.8	61.7
7L	16774	2 ½"	61.7	67.5
8	16775	3"	67.5	73.8

*All measurements in the table above are in millimeters (mm) unless otherwise specified

Ex d/e FLAMEPROOF TAPER-TECH® GLANDS DIMENSIONS (mm) & SPECIFICATIONS

Ex d/e FLAMEPROOF TAPER-TECH® DOUBLE COMPRESSION CABLE GLAND (FOR ARMoured AND BRAIDED CABLE)										
Gland size		0s	0	1	2	3	4	5	6s	6L
A - Compression Nut	A/F	25.0	25.0	28.0	33.0	42.5	52.0	65.0	80.0	80.0
	A/C	28.0	28.0	32.0	38.0	48.0	58.0	73.0	89.5	89.5
B - Body	A/F	25.0	25.0	28.0	33.5	42.5	55.0	70.0	82.00	82.0
	A/C	28.0	28.0	32.0	40.0	48.0	62.0	79.0	91.0	91.0
C - Nipple Thread		M20 x 1.5P	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	M63 x 1.5P
D - Nipple Bore		12.6	12.6	14.7	20.4	26.3	34.9	43.3	55.8	55.8
E - Nipple Length		15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
F - Max. Protrusion		64.0	64.0	72.0	80.0	90.0	103.0	123.0	151.0	151.0
G - Overall Length		79.2	79.0	87.0	95.0	105.0	118.0	138.0	166.0	166.0
H - Outer Sheath Diameter mm	Min.	10.3	12.6	16.0	21.5	25.0	32.5	42.0	52.5	52.5
	Max.	14.0	18.6	22.1	27.2	33.2	43.2	53.2	67.0	67.0

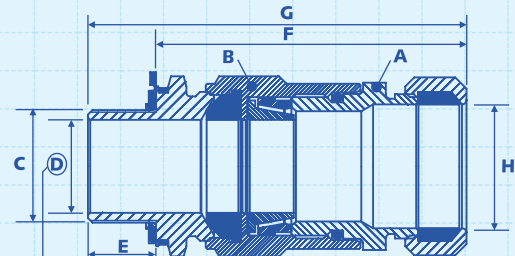
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Ex d/e FLAMEPROOF TAPER-TECH [®]										
CABLE GLAND - WITH SHROUD										
(FOR ARMoured AND BRAIDED CABLE)										
Gland size		0s	0	1	2	3	4	5	6s	6L
A - Compression Nut	A/F	23.0	23.0	25.0	33.0	40.0	52.0	65.0	76.0	76.0
	A/C	26.0	26.0	28.0	38.0	45.5	58.0	73.0	85.0	85.0
B - Body	A/F	25.0	25.0	28.0	35.5	42.5	55.0	70.0	82.0	82.0
	A/C	28.0	28.0	32.0	40.0	48.0	62.0	79.0	91.0	91.0
C - Nipple Thread		M20 x 1.5P	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	M63 x 1.5P
D - Nipple Bore		12.6	12.6	14.7	20.4	26.3	34.7	43.3	55.9	55.8
E - Nipple Length		15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
F - Max. Protrusion		64.0	64.0	72.0	80.0	90.0	103.0	123.0	151.0	151.0
G - Overall Length		79.2	79.0	87.0	95.0	105.0	118.0	138.0	166.0	166.0
H - Outer Sheath Diameter	Min.	10.3	12.6	16.0	21.5	25.0	32.5	42.0	52.5	52.5
	Max.	14.0	18.6	22.1	27.2	33.2	43.2	53.2	67.0	67.0

*All measurements in the table above are in millimeters (mm) unless otherwise specified

Ex d/e FLAMEPROOF TAPER-TECH [®] DOUBLE COMPRESSION CABLE GLAND (FOR CIRCULAR UNARMoured CABLE)																
Gland size		00xs	00	0xs	0s	0	1	2	3	4	5	6s	6L	7s	7L	8
A - Compression Nut	A/F	19.0	19.0	19.0	19.0	22.0	27.0	33.0	40.0	52.0	65.0	76.0	76.0	80.0	80.0	90.0
	A/C	22.0	22.0	22.0	22.0	25.0	30.5	37.5	45.0	58.0	72.0	84.5	84.5	90.0	90.0	100.0
B - Body	A/F	19.0	19.0	19.0	19.0	25.0	28.0	35.0	55.0	55.0	70.0	82.5	82.5	82.5	82.5	90.0
	A/C	22.0	22.0	22.0	22.0	28.0	32.0	40.0	61.5	61.5	79.0	92.0	92.0	92.0	92.0	100.0
C - Nipple Thread		M16 x 1.5P	M16 x 1.5P	M20 x 1.5P	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	M63 x 1.5P	M63 x 1.5P	M75 x 1.5P	M75 x 1.5P	M82 x 1.5P
D - Nipple Bore		8.5	8.5	8.5	8.5	12.6	14.7	20.4	26.3	34.7	43.3	55.8	55.8	67.5	67.5	74.0
E - Nipple Length		15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
F - Max. Protrusion		33.0	33.0	33.0	33.0	33.0	36.0	37.0	40.0	46.0	57.0	63.0	63.0	69.0	69.0	71.0
G - Overall Length		48.0	48.0	48.0	48.0	48.0	51.0	52.0	55.0	61.0	72.0	78.0	78.0	84.0	84.0	86.0

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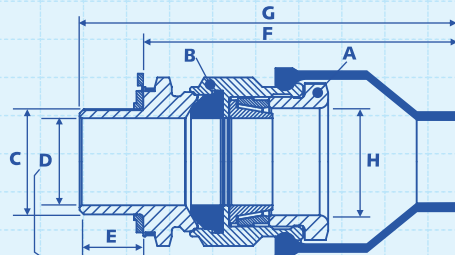
Use this dimension to establish maximum cable bedding size gland can accommodate.

SPECIFICATION GUIDE

*Note: Specifiers may use this wording to specify the Pratley Ex d/e Flameproof Taper-Tech Double Compression Cable Gland (for armoured and braided cable)

The Flameproof Taper-Tech® Double Compression Cable Gland (For armoured and braided cable) must:

- Be manufactured from brass and be nickel plated.
- Comply fully with IEC & SANS specifications.
- Be suitable for all gas groups and all Ex d/e/nR/t enclosure groups (Quad certified).
- Incorporate a loose reversible Cone Bush and Cone Ring.
- Incorporate a Taper-Tech flame seal.
- Incorporate a red Ex identification band.



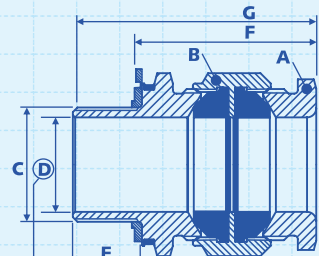
Use this dimension to establish maximum cable bedding size gland can accommodate.

SPECIFICATION GUIDE

*Note: Specifiers may use this wording to specify the Pratley Ex d/e Flameproof Taper-Tech Cable Gland with shroud (for armoured and braided cable)

The Flameproof Taper-Tech® Cable Gland with shroud (For armoured and braided cable) must:

- Be manufactured from brass and be nickel plated.
- Comply fully with IEC & SANS specifications.
- Be suitable for all gas groups and all Ex d/e/nR/t (Quad certified) enclosure groups.
- Incorporate a loose reversible Cone Bush and Cone Ring.
- Incorporate a Taper-Tech flame seal.
- Incorporate a red Ex identification band.



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

SPECIFICATION GUIDE

*Note: Specifiers may use this wording to specify the Pratley Ex d/e Flameproof Taper-Tech Double Compression Gland (for circular unarmoured cable)

The Flameproof Taper-Tech® Double Compression Gland (For circular unarmoured cable) must:

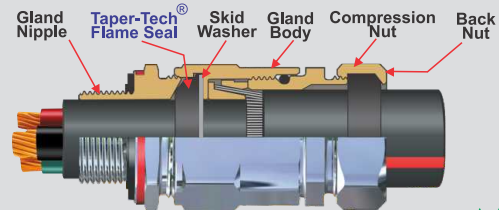
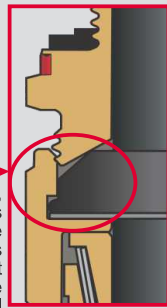
- Be manufactured from brass and be nickel plated.
- Comply fully with IEC & SANS Ex d specifications.
- Be suitable for all gas groups and all Ex d/e/nR/t (Quad certified) enclosure groups.
- Incorporate a Taper-Tech flame seal.
- Incorporate a red Ex identification band.

UNIQUE "Taper-Tech"® CLAMPING SYSTEM

UNIQUE "Taper-Tech"® CLAMPING SYSTEM

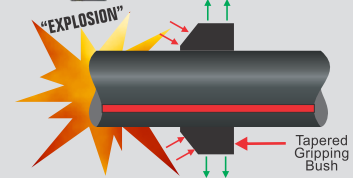
DIFFERENTIAL TAPER

- Specially formulated, high performance creep resistant rubber (-35°C to 120°C).
- Due to the unique differential taper design, the gripping force of the bush increases proportionally with the axial load on the cable. This means that the cable remains safely secured, even at very high pull-out loads, (100% of that required by the IEC 60079 series specifications). No special conditions for cable retention are therefore required.



THE PRATLEY "Taper-Tech"® BUSH SOLUTION

Large surface area spreads the gripping load and prevents cable damage. The taper design increases seal force proportionally to the applied explosive pressure, effecting a **FAIL-SAFE SEAL**.



OTHER PRATLEY Ex d/e GLANDS & Ex d/e JUNCTION BOXES

PRATLEY Ex d/e FLAMEPROOF TAPER-TECH® HOSEBACK COMPRESSION GLAND

(For Circular Unarmoured Cable)

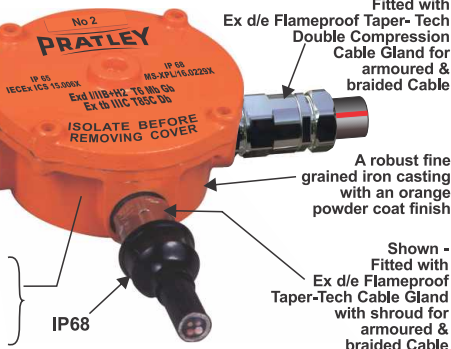
Quad certified Ex d/e/nR/t to SANS and IEC specifications for use on Ex d and Ex e apparatus in **Zones 1 & 20** areas and all gas groups. For all circular unarmoured cables protected with hosing. The glands are designed for threaded hole applications and are supplied complete with nipple gasket to maintain IP68 rating. Circular unarmoured cables from 4.5mm up to a maximum diameter of 55.8mm can be accommodated.



PRATLEY Ex d/e FLAMEPROOF BOXES

Shown - Fitted with a Ex d/e Flameproof Taper-Tech Cable Gland for circular unarmoured cable

Boxes:
Sizes 1 & 2
Group I, IIA, IIB & IIC
Sizes 4
Group I, IIA, IIB



Available in metric or NPT sizes

- These boxes have both a flame path in the lid and a lid gasket for extra protection.
- They are therefore completely waterproof, gas tight & IP68.
- Available in 2-, 3- and 4-way configurations all with precision threaded entries to accept Pratley Ex d Cable glands, reducers, adaptors or blanking plugs.
- Sizes 1 & 2 for all gas groups.

PRATLEY Ex d/e FLAMEPROOF TAPER-TECH HOSEBACK COMPRESSION GLAND									
Gland size	Catalogue Number Metric	Entry Thread Metric	Min. Cable Dia.	Max. Cable Dia.	Gland size	Catalogue Number NPT	Entry Thread NPT	Min. Cable Dia.	Max. Cable Dia.
0s	16776	M20	4.5	8.5	0s	16785	1/2"	4.5	8.5
0	16777	M20	8.5	12.6	0	16786	1/2"	8.5	12.6
1	16778	M20	12.6	14.7	1	16787	1/2"	12.6	14.7
2	16779	M25	14.7	20.4		16788	3/4"	12.6	14.7
3	16780	M32	20.4	26.3	2	16789	3/4"	14.7	20.4
4	16781	M40	26.3	34.7		16790	1"	14.7	20.4
5	16782	M50	34.7	43.3	3	16791	1"	20.4	26.3
6s	16783	M63	43.3	49.3		16792	1 1/4"	20.4	26.3
6L	16784	M63	49.3	55.8	4	16793	1 1/4"	26.3	34.7
						16794	1 1/2"	26.3	34.7
					5	16795	2"	34.7	43.3
					6s	16796	2 1/2"	43.3	49.3
					6L	16797	2 1/2"	49.3	55.8

*All measurements in the table above are in millimeters (mm) unless otherwise specified

CONFIGURATIONS AND SIZES

Box Size	Nipple Thread	Empty Volume ml	No. of Entries	Cat. No.
No. 1	20	378	2	17101
			3	17102
			4	17103
No. 2	25	689	2	17104
			3	17105
			4	17106
No. 4	40	3671	2	17107
			3	17108
			4	17109

SAFETY NOTE: Size 4 not rated for Group IIC

*All measurements in the table above are in millimeters (mm) unless otherwise specified

ACCESSORIES

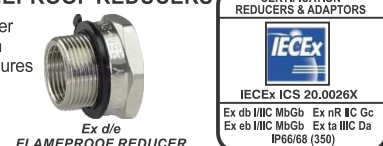
PRATLEY Ex d/e FLAMEPROOF ADAPTORS

The Adaptors may be used to:
Fit metric Flameproof Glands into apparatus with Imperial threads, Pg threads, Npt threads or to fit a larger gland to a smaller entry. Maintains IP68 rating of enclosure.



PRATLEY Ex d/e FLAMEPROOF REDUCERS

To fit a smaller gland to a larger entry. Supplied complete with Waterproofing Gasket. (all figures represent mm sizes unless otherwise stated).
F - Female thread.
M - Male thread.



FOR A DETAILED LIST OF ADAPTORS AND REDUCERS PLEASE CONTACT PRATLEY OR VISIT www.pratleyelectrical.com
Also available in 304/316 Stainless Steel on request.

SHROUD For Ex d/e TAPER-TECH® Flameproof Double Compression Cable Glands

Precision moulded UV resistant PVC shroud for added protection, termination-neatness and piece-of-mind.



SHROUDS FOR Ex d/e TAPER-TECH FLP DOUBLE COMPRESSION CABLE GLANDS

Shroud Size (Nipple Thread)	20s	20	20	25	32	40	50	63	63
Gland Size	0s	0	1	2	3	4	5	6s	6L
Cat. No.	03030	03031	03031	03032	03033	03034	03035	03036	03036
Usual Pack Qty.	20	20	20	20	10	5	2	2	2

TOUGH BLACK GASKETS

These tough black gaskets incorporate a special "feather" for perfect sealing.



PRATLEY METRIC GASKETS

Size	20	25	32	40	50	63	75	16	82
Cat. No.	39001	39002	39003	39004	39005	39006	39007	39008	39009
Usual Pack Qty.	100	100	100	100	100	100	100	100	100

*All measurements in the table above are in millimeters (mm) unless otherwise specified

PRATLEY PG GASKETS

Size	Pg13.5	Pg 16	Pg 21	Pg 29	Pg 36	Pg 42	Pg 48
Cat. No.	03010	03011	03012	03013	03014	03015	03016
Usual Pack Qty.	100	100	100	100	100	100	100

WATERPROOFING SHROUD

- Halogen free
- IP68
- Exceptional UV resistance
- Elasticity retention
- Excellent chemical resistance



By effectively outer sealing the gland, Pratley shrouds prevent the ingress of moisture and consequent corrosion of armour wires. This ensures a permanent earth path and improved safety! Their totally unique design also self-dries the cable via a one-way vapour release valve action.

STANDARD SHROUD

PRATLEY WATERPROOFING SHROUDS									
Size	0	1	2	3	4	5	6	7	8
Cat. No. (Short)	03010	03011	03012	03013	03014	03015	03016	03017	03017
Usual Pack Qty.	20	20	20	20	20	20	10	10	10

Pratley (Pty) Limited (Reg. No. 1996/003890/07)

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