CMP Cable Glands & Accessories

Australia & New Zealand





CMP PRODUCTS

CALL 1300 GLANDS

CMP Products

What We Promise for Your Business

CMP Products is a market leading specialist designer, manufacturer, and supplier of cable glands, cleats and accessories. Established as part of British Engines group in 1957, we have ensured that our customers remain at the heart of everything that we do, wherever they are around the world.

We believe in setting standards for quality and service, and leading the way in product innovation, whilst maintaining integrity, safety and reliability. This means that whether our products are used for onshore or offshore oil and gas installations, in power generation, transportation infrastructure, or for surface or underground mining applications, they always protect the safety of your people and your infrastructure.

By remaining focused on this commitment to our customers, our business has grown to become a world leader in our market, continuing to provide assurance of the highest standards of quality and service.

Innovation in Products & Solutions

Evolving technical standards and stringent certification processes have helped to drive innovation at CMP. As a market leader in cable gland and cleat technology, we invest heavily in advanced manufacturing techniques, dedicated IT systems and effective training for our employees and customers.

The solutions chosen by our customers are often rigorously tested to perform above and beyond the normal standards, since they are used in progressively demanding applications and environments.

People & Networks

CMP's structure allows us the flexibility to meet these continuously evolving needs, and we nurture this culture further by recruiting specialist, highly talented people in all areas of our business.

We have also formed excellent relationships with the people and organsations that do business with us, developing alliances with distributors and end-users internationally. This network is key to our strategy for bringing products to a worldwide market, via a strategic global distribution network reflective of our business.

Customer Care

Putting the customer at the centre of what we do and ensuring a positive experience for everyone we work with is a vital part of our vision.

An Introduction to Cable Glands

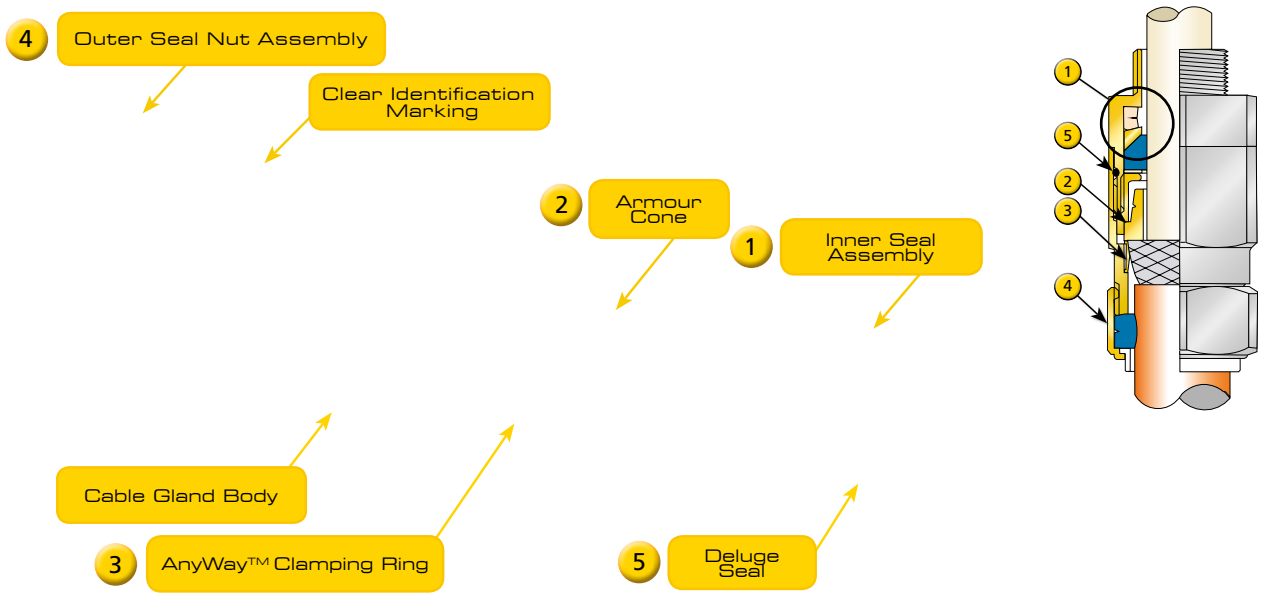
Cable Glands are mechanical cable entry devices, which can be constructed from metallic or non-metallic materials or a combination of both, and are used throughout all industries in conjunction with cable and wiring used in the electrical, instrumentation, control and automation systems.

Cable Glands may be used on all types of electrical power, control, instrumentation, data and telecommunications cables and are used as sealing/terminating devices to ensure that the characteristics of the enclosure which the cable enters can be safely maintained. The main functions of the Cable Gland, depending on type, are listed briefly as follows:

- Provide environmental protection by sealing on the outer cable sheath, excluding dust and moisture from the electrical or instrument enclosure.
- In the case of armoured cables facilitate earth continuity, when the Cable Gland has a metallic construction. In this case Cable Glands may be tested to ensure that they can withstand a minimum short circuit fault current, corresponding to that of the cable armour or peak fault of the electrical system.
- Provide a holding force on the cable to ensure adequate levels of cable pull out resistance, and prevent lateral and axial loads being applied to the internal cable conductor terminations.
- Provide additional sealing on the part of the cable entering the enclosure, when a high degree of ingress protection is required.
- Provide additional environmental sealing at the cable entry point, maintaining the ingress protection rating of the enclosure and cable gland combination, with the selection of applicable accessories dedicated to performing this function.
- Constructed from corrosion-resistant materials determined by selection to a technical standard, or by corrosion resistance tests.

When used in explosive atmospheres it is crucial that Cable Glands are selected correctly according to the specified installation code or standard requirements, taking into account any certification limitations or conditions of use, are approved for the type of cable selected, and maintain the level of protection of the equipment to which they are attached.

CMP Products Cable Glands - The Key Features



Above is a typical CMP double seal Cable Gland showing the parts in an exploded view.

1 Unique Independent Inner Sealing

The CMP inner sealing principal is quite different from other cable gland types and because the activation of the inner sealing ring is separated from the armour clamping components this means that the possibility of inadvertent over-tightening is eliminated. Unlike traditional compression seals that have no means of direct control on their application, the CMP inner sealing technique is achieved using a displacement seal that is independently controlled by the user during installation.

The Compensating Displacement Seal System (1) has helped CMP to take its original displacement sealing ring concept to another level. The unique Compensator has allowed the cable gland components to be fully tightened metal-to-metal and relieve the potential excess forces that could be transferred to the cable bedding, eliminating cable damage and Coldflow characteristics.

2 3 Secure Armour Termination

CMP Products' armour clamping method involves a unique termination solution that ensures a permanent crimping of the cable armour, creating a low impedance connection that does not suffer from self-loosening. The patented AnyWay™ clamping ring aids an easy 'Right First Time' installation. Secure armour clamping like this also contributes to enhanced levels of EMC performance as well as reliable earth continuity.

4 Outer Seal

The unique CMP Products Outer Seal Tightening Guide (OSTG) and Load Retention Sealing Ring (LRS) ensure an IP/NEMA rated seal is formed against the cable to the CORRECT degree. This is also applicable to our sealing rings on unarmoured Cable Glands.

5 Proven Internally Enclosed Deluge Seal

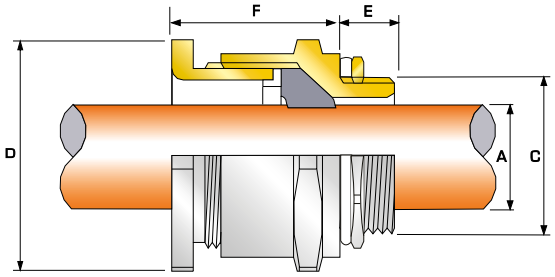
CMP Products integrated 'O' ring deluge seal (tested to DTS 01:91) prevents corrosion of the cable armour by ensuring that moisture cannot track around the Cable Gland threads and into the armour termination body. As an internally enclosed deluge seal the 'O' ring is protected from mechanical damage and harmful UV rays.

Barrier Glands Made Easy

RapidEx is a liquid pour, fast curing, liquid resin barrier seal that installs in seconds and cures in minutes.

Its unique formula begins with a low viscosity liquid that flows into the cable interstices completely surrounding the cable conductors, and in the process, displacing the air from the Cable Gland's sealing chamber ensuring the 'Perfect Seal'. For further information see page 11.

RAPID Ex



A2

A2 Single Seal Industrial Cable Gland

For all types of Unarmoured & Braid Armoured Cables

- Standard material nickel plated brass
- High quality durable materials
- Robust, heavy duty design
- Displacement type seal
- Designed to prevent Coldflow
- Deluge protected
- -60˚C to +130˚C (standard), -20˚C to 200˚C (ThermIn option)

Entry thread sealing washer and locknut included as standard

Option available for 20mm length of entry with Entry thread sealing washer and locknut- A21RA5/A20LOE

TECHNICAL DATA	
Design Specification	BS 6121:Part 1:1989, IEC 62444, EN 62444
Mechanical Classifications*	Impact = Level 8, Retention = Class D
Enclosure Protection	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
CSA Certificate	1211841
Code of Protection	Enclosure Type 4X
GOST R Certificate	POCC GB. 05.H00187
GOST K Certificate	KZ 7500361.01.01.25266
RoK Permit For Use	19-02-UL-1957
Marine Approvals	LRS: 01/00171 (E1), ABS: 01-LD234401-2-PDA
Ingress Protection Rating	IP66, IP67 & IP68 (when used with CMP Products installation accessories)**
Deluge Protection Compliance	DTS01 : 91
Cable Gland Material	Electroless Nickel Plated Brass (standard), Stainless Steel, Aluminium
Seal Material	CMP Thermoset Rubber
Cable Type	Unarmoured
Sealing Technique	CMP Unique Displacement Seal Concept
Sealing Area(s)	Cable Outer Sheath
Alternate Cable Gland Packs	Cable Gland Pack includes 20mm long threaded A2 gland, IP washer, Heavy Duty locknut, Serrated Washer, Black & Orange Shroud

** Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444*
*** Refer to www.cmp-products.com.au for further information on Ingress Protection Ratings*

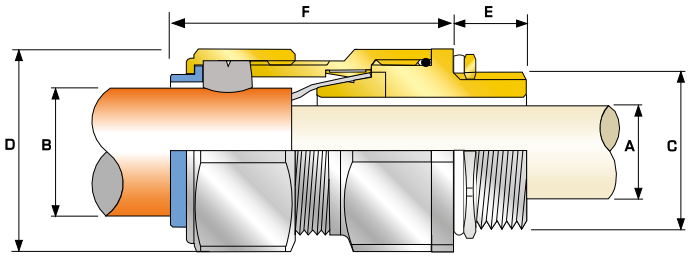
Cable Gland Selection Table

Refer to illustration at the top of the page

Dimensions listed below are for metric cable glands only
Dimensions for alternative threads may vary, please see supplementary technical data sheet

Cable Gland Size	Available Entry Threads "C"		Overall Cable Diameter "A"		Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Combined Ordering Reference (Nickel Plated Brass Metric)			Shroud	Cable Gland Weight (Kgs)
	Standard											
	Metric	Thread Length "E"	Min	Max	Max	Max		Size	Type	Ordering Suffix		
20s16	M20	10.0	3.2	8.7	24.0	26.4	25.1	20S16	A2	1RA5/A	PVC04	0.070
20S	M20	10.0	6.1	11.7	24.0	26.4	25.1	20S	A2	1RA5/A	PVC04	0.060
20	M20	10.0	6.5	14.0	27.0	29.7	27.2	20	A2	1RA5/A	PVC05	0.070
25	M25	10.0	11.1	20.0	36.0	39.6	35.5	25	A2	1RA5/A	PVC09	0.130
32	M32	10.0	17.0	26.3	41.0	45.1	34.2	32	A2	1RA5/A	PVC10	0.150
40	M40	15.0	23.5	32.2	50.0	55.0	35.1	40	A2	1RA5/A	PVC13	0.200
50S	M50	15.0	31.0	38.2	55.0	60.5	32.0	50S	A2	1RA5/A	PVC15	0.260
50	M50	15.0	35.6	44.0	60.0	66.0	36.3	50	A2	1RA5/A	PVC18	0.270
63S	M63	15.0	41.5	49.9	70.5	77.6	33.5	63S	A2	1RA5/A	PVC21	0.430
63	M63	15.0	47.2	55.9	75.0	82.5	35.8	63	A2	1RA5/A	PVC23	0.460
75S	M75	15.0	54.0	61.9	84.0	92.4	34.2	75S	A2	1RA5/A	PVC26	0.520
75	M75	15.0	61.1	67.9	84.0	92.4	40.6	75	A2	1RA5/A	PVC26	0.500
90	M90	24.0	66.6	79.9	108.0	118.8	58.3	90	A2	1RA5/A	PVC31	1.600
100	M100	24.0	76.0	91.0	123.0	135.3	55.2	100	A2	1RA5/A	LSF33	1.780
115	M115	24.0	86.0	97.9	133.4	146.7	65.2	115	A2	1RA5/A	LSF34	2.670
130	M130	24.0	97.0	114.9	152.4	167.6	73.9	130	A2	1RA5/A	LSF35	3.800

Dimensions are displayed in millimetres unless otherwise stated



CWD

CWD Single Seal Industrial Cable Gland with Integrated Deluge Seal

For all types of Steel & Aluminium Wire Armoured Cables

- Standard material nickel plated brass
- Integral protected deluge seal
- High quality durable materials
- Robust, heavy duty design
- Metal-to-metal armour clamping
- Direct & remote installation
- Controlled outer 'load retention' seal
- Unique OSTG prevents overtightening
- -60˚C to +130˚C (standard), -20˚C to 200˚C (ThermIn option)
- EMC tested

Note: Entry thread sealing washer and heavy duty locknut included as standard

Option available for variable speed drive cables (VSD) CWDVAR

TECHNICAL DATA	
Design Specification	BS 6121:Part 1:1989, IEC 62444, EN 62444
Mechanical Classifications*	Impact = Level 8, Retention = Class D
Enclosure Protection	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
Electrical Classifications*	Category B
GOST R Certificate	POCC GB. 05.H00187
GOST K Certificate	KZ 7500361.01.01.25266
RoK Permit For Use	19-02-UL-1957
Marine Approvals	LRS: 01/00171 (E1), ABS: 01-LD234401/2-PDA
Ingress Protection Rating	IP66, IP67 & IP68 (when used with CMP Products installation accessories)**
Cable Gland Material	Electroless Nickel Plated Brass (standard), Stainless Steel, Aluminium
Seal Material	CMP Thermoset Rubber
Cable Type	Single Wire Armour (SWA), Aluminium Wire Armour (AWA)
Armour Clamping	Detachable Armour Cone & AnyWay Universal Clamping Ring
Sealing Technique	Unique CMP 'LRS' Outer Seal (Load Retention Seal)
Sealing Area(s)	Cable Outer Sheath
Alternate Cable Gland Packs	Cable Gland Pack includes 20mm long threaded CWD gland, IP washer, Heavy Duty locknut, Serrated Washer, Earth Tag, Black & Orange Shroud.

** Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444*
*** Refer to www.cmp-products.com.au for further information on Ingress Protection Ratings*

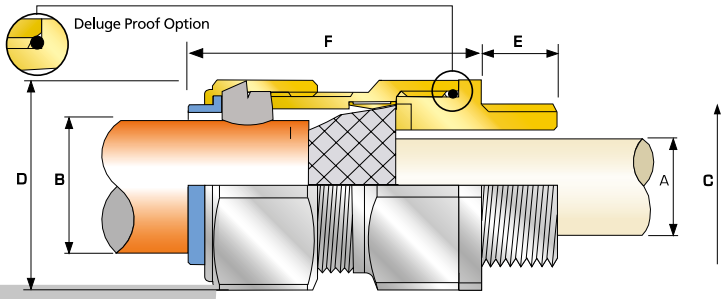
Cable Gland Selection Table

Refer to illustration at the top of the page

Dimensions listed below are for metric cable glands only
Dimensions for alternative threads may vary, please see supplementary technical data sheet

Cable Gland Size	Available Entry Threads "C"		Cable Bedding Diameter "A"	Overall Cable Diameter "B"		Armour Range		Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Combined Ordering Reference (Nickel Plated Brass Metric)			Shroud	Cable Gland Weight (Kgs)
	Metric	Thread Length "E"	Max	Min	Max	Min	Max	Max	Max		Size	Type	Ordering Suffix		
20s16	M20	20.0	8.7	6.1	13.1	0.8	1.25	24.0	26.4	48.0	20S16	CWD	1RA5/A	PVC04	0.100
20S	M20	20.0	11.7	9.5	15.9	0.8	1.25	24.0	26.4	48.0	20S	CWD	1RA5/A	PVC04	0.140
20	M20	20.0	14.0	12.5	20.9	0.8	1.25	30.5	33.6	48.0	20	CWD	1RA5/A	PVC06	0.180
25S	M25	20.0	20.0	14.0	22.0	1.25	1.6	37.5	41.3	56.0	25S	CWD	1RA5/A	PVC09	0.257
25	M25	20.0	20.0	18.2	26.2	1.25	1.6	37.5	41.3	56.0	25	CWD	1RA5/A	PVC09	0.257
32	M32	20.0	26.0	23.7	33.9	1.6	2.0	46.0	50.6	54.0	32	CWD	1RA5/A	PVC11	0.376
40	M40	20.0	32.2	27.9	40.4	1.6	2.0	55.0	60.5	58.0	40	CWD	1RA5/A	PVC15	0.630
50S	M50	20.0	38.2	35.2	46.7	2.0	2.5	60.0	66.0	61.0	50S	CWD	1RA5/A	PVC18	0.757
50	M50	20.0	44.1	40.4	53.0	2.0	2.5	70.1	77.1	60.0	50	CWD	1RA5/A	PVC21	0.862
63S	M63	20.0	50.0	45.6	59.4	2.0	2.5	75.0	82.5	74.0	63S	CWD	1RA5/A	PVC23	1.390
63	M63	20.0	56.0	54.6	65.8	2.0	2.5	80.0	88.0	71.0	63	CWD	1RA5/A	PVC25	1.360
75S	M75	20.0	62.0	59.0	72.0	2.0	2.5	90.0	99.0	86.0	75S	CWD	1RA5/A	PVC28	2.307
75	M75	20.0	64.2	66.7	78.4	2.5	3.0	100.0	110.0	82.0	75	CWD	1RA5/A	PVC30	2.909
90	M90	24.0	78.6	76.2	90.3	3.15	4.0	114.3	125.7	95.0	90	CWD	1RA5/A	PVC32	3.858
100	M100	24.0	91.0	86.1	101.4	3.15	4.0	123.0	135.3	95.0	100	CWD	1RA5/A	LSF33	4.958
115	M115	24.0	98.0	101.5	110.2	3.15	4.0	133.4	146.7	107.5	115	CWD	1RA5/A	LSF34	5.058
130	M130	24.0	115.0	110.2	123.2	3.15	4.0	152.4	167.6	110.0	130	CWD	1RA5/A	LSF35	6.158

Dimensions are displayed in millimetres unless otherwise stated



CX

CX Single Seal Industrial Cable Gland

For Braid, Pliable Wire & Steel Tape Armoured Cables

- Standard material nickel plated brass
- High quality durable materials
- Robust, heavy duty design
- Metal-to-metal armour clamping
- Direct & remote installation
- Controlled outer 'load retention' seal
- Unique OSTG prevents overtightening
- -60˚C to +130˚C (standard), -20˚C to 200˚C (ThermIn option)
- Deluge protection option
- EMC tested

ABS Lloyd's Register GL PCG CE

† ***Grooved Cone (X)*** *is predominantly used for Wire Braid (e.g. GSWB, TCWB), Steel Tape Armour (STA, DSTA) and Aluminium Strip Armour (ASA) but is also suitable for Single Wire Armour (SWA), Aluminium Wire Armour (AWA) and Pliable Wire Armour (PWA) if the range is outside that of the Stepped Cone (W).*

Note: Grooved Cone (X) *dimensions shown in the Cable Gland Selection Table below are for a double wire strand of braid armour cables. Tapes can also be doubled over. For cables that have only a single layer of armour such as SWA the clamping range should be used as shown in the table below.*

TECHNICAL DATA	
Design Specification	BS 6121:Part 1:1989, IEC 62444, EN 62444
Mechanical Classifications*	Impact = Level 8, Retention = Class D
Enclosure Protection	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
Electrical Classifications*	Category A
GOST R Certificate	POCC GB. 05.H00187
GOST K Certificate	KZ 7500361.01.01.25266
RoK Permit For Use	19-02-UL-1957
Marine Approvals	LRS: 01/00171 (E1), ABS: 01-LD234401/2-PDA
Ingress Protection Rating	IP66 as standard (IP67, IP68 available upon request)**
Cable Gland Material	Electroless Nickel Plated Brass (standard), Stainless Steel, Aluminium
Seal Material	CMP Thermoset Rubber
Cable Type	Wire Braid Armour, Screened Flexible (EMC) Wire Braid (e.g. CY / SY), Pliable Wire Armour (PWA), Steel Tape Armour (STA)
Armour Clamping	Detachable Armour Cone & AnyWay Universal Clamping Ring
Sealing Technique	Unique CMP 'LRS' Outer Seal (Load Retention Seal)
Sealing Area(s)	Cable Outer Sheath

** Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444*
*** Refer to www.cmp-products.com.au for further information on Ingress Protection Ratings*

Cable Gland Selection Table

Refer to illustration at the top of the page

Dimensions listed below are for metric cable glands only
Dimensions for alternative threads may vary, please see supplementary technical data sheet

Cable Gland Size	Available Entry Threads "C"		Cable Bedding Diameter "A"	Overall Cable Diameter "B"		Armour Range † Grooved Cone (X)		Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Combined Ordering Reference (Nickel Plated Brass Metric)			Shroud	Cable Gland Weight (Kgs)
	Metric	Thread Length "E"	Max	Min	Max	Min	Max	Max	Max		Size	Type	Ordering Suffix		
20s16	M20	10.0	8.7	6.1	13.1	0.3	1.0	24.0	26.4	48.0	20S16	CX	1RA5	PVC04	0.100
20S	M20	10.0	11.7	9.5	15.9	0.3	1.0	24.0	26.4	48.0	20S	CX	1RA5	PVC04	0.100
20	M20	10.0	14.0	12.5	20.9	0.4	1.0	30.5	33.6	48.0	20	CX	1RA5	PVC06	0.147
25S	M25	10.0	20.0	14.0	22.0	0.4	1.2	37.5	41.3	56.0	25S	CX	1RA5	PVC09	0.224
25	M25	10.0	20.0	18.2	26.2	0.4	1.2	37.5	41.3	56.0	25	CX	1RA5	PVC09	0.221
32	M32	10.0	26.0	23.7	33.9	0.4	1.2	46.0	50.6	54.0	32	CX	1RA5	PVC11	0.306
40	M40	15.0	32.2	27.9	40.4	0.4	1.6	55.0	60.5	58.0	40	CX	1RA5	PVC15	0.448
50S	M50	15.0	38.2	35.2	46.7	0.4	1.6	60.0	66.0	61.0	50S	CX	1RA5	PVC18	0.567
50	M50	15.0	44.1	40.4	53.0	0.6	1.6	70.1	77.1	60.0	50	CX	1RA5	PVC21	0.751
63S	M63	15.0	50.0	45.6	59.4	0.6	1.6	75.0	82.5	74.0	63S	CX	1RA5	PVC23	1.036
63	M63	15.0	56.0	54.6	65.8	0.6	1.6	80.0	88.0	71.0	63	CX	1RA5	PVC25	1.016
75S	M75	15.0	62.0	59.0	72.0	0.6	1.6	90.0	99.0	86.0	75S	CX	1RA5	PVC28	1.787
75	M75	15.0	64.2	66.7	78.4	0.6	1.6	100.0	110.0	82.0	75	CX	1RA5	PVC30	2.091
90	M90	24.0	78.6	76.2	90.3	0.8	1.6	114.3	125.7	95.0	90	CX	1RA5	PVC32	3.044
100	M100	24.0	91.0	86.1	101.4	0.8	1.6	123.0	135.3	95.0	100	CX	1RA5	LSF33	3.132
115	M115	24.0	98.0	101.5	110.2	0.8	1.6	133.4	146.7	107.5	115	CX	1RA5	LSF34	4.476
130	M130	24.0	115.0	110.2	123.2	0.8	1.6	152.4	167.6	110.0	130	CX	1RA5	LSF35	5.761

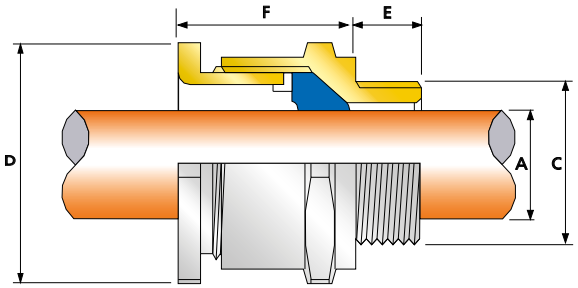
Dimensions are displayed in millimetres unless otherwise stated

TECHNICAL DATA	
Design Specification	BS 6121:Part 1:1989, IEC 62444, EN 62444
Mechanical Classifications*	Impact = Level 8, Retention = Class D
Enclosure Protection	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
Ingress Protection Rating	IP66 **
Cable Gland Material	Electroless Nickel Plated Brass (standard), Stainless Steel, Aluminium
Seal Material	CMP SOLO LSF Halogen Free Thermoset Elastomer
Cable Type	Screened, Tape Armour and Metal Clad cables, including Variable Speed Drive Cables (VSD) with Copper Tape Screen
Screen Termination	Earth Continuity in Contact with Metallic Screen via Spring Clamp
Sealing Technique	CMP Load Retention Seal
Sealing Area(s)	Cable Outer Sheath

Cable Gland Selection Table

Refer to illustration at the top of the page

Cable Gland Size & Ordering Reference	Metric Entry Thread "C"	Minimum Thread Length "E"	Tape Diameter "A"				Overall Cable Diameter "B"		Protrusion Length "F"	Across Flats "D"	Across Corners "D"	Shroud	Cable Gland Weight (Kgs)
			End Stop in		End Stop Out		Min	Max		Max	Max		
			Min	Max	Min	Max							
CMPTMC050SNB1AA5	M20	15.0	no stop	no stop	8.7	12.8	9.0	13.9	46.5	30.5	33.6	PVC06	0.147
CMPTMC050NB1AA5	M20	15.0	no stop	no stop	13.0	17.0	13.0	20.0	52.2	36.0	39.6	PVC09	0.224
CMPTMC075NB1AA5	M25	15.0	15.0	19.2	19.2	23.3	17.0	26.3	53.1	41.0	45.1	PVC10	0.221
CMPTMC100NB1AA5	M32	15.0	19.7	24.6	24.6	29.2	23.1	32.2	56.9	50.0	55.0	PVC13	0.306
CMPTMC125NB1AA5	M40	15.0	27.5	31.2	31.2	35.2	29.5	38.2	56.3	55.0	60.5	PVC15	0.448
CMPTMC150NB1AA5	M50	15.0	33.5	37.1	37.1	41.1	35.6	44.1	58.6	60.0	66.0	PVC18	0.567
CMPTMC200SNB1AA5	M50	15.0	38.3	42.6	42.6	47.1	40.1	51.0	64.0	70.0	77.0	PVC21	0.751
CMPTMC200NB1AA5	M63	15.0	45.0	49.1	49.1	53.0	47.2	56.0	63.2	75.0	82.5	PVC23	1.036
CMPTMC250SNB1AA5	M75	15.0	52.1	54.9	54.9	58.9	52.8	62.0	69.3	80.0	88.0	PVC22	5.6



A2F

Ex e Exd ExnR Exta

A2F Globally Approved, Explosive Atmosphere Cable Gland

For all types of Unarmoured Cables

- Standard material nickel plated brass
- High quality durable materials
- Robust, heavy duty design
- Displacement type flameproof seal
- Designed to prevent Coldflow
- No external cable clamping required
- Deluge protected
- -60˚C to +130˚C (standard), -20˚C to 200˚C (ThermEx option)
- Globally marked, IECEx, ATEX & CSA

A2F design options available:

A2F1RA4 - Stainless Steel Design
A2F-FF - Flat Form Cables
A2F (Simtars) - Simtars Certified

TECHNICAL DATA	
Design Specification	BS 6121:Part 1:1989, IEC 62444, EN 62444
Mechanical Classifications*	Impact = Level 8, Retention = Class B
Enclosure Protection	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
ATEX Certificate	SIRA13ATEX1068X, SIRA13ATEX4074X
Code of Protection	II 2G, II 1D Ex d IIC Gb, Ex e IIC Gb, Ex ta IIIC Da II 3G Ex nR IIC Gc I M2 Ex d I Mb, Ex e I Mb
Compliance Standards	EN 60079-0,1,7,15,31
IECEx Certificate	IECEx SIR 13.0023X
Code of Protection	Ex d IIC Gb, Ex e IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da, Ex d I Mb, Ex e I Mb
Compliance Standards	IEC 60079-0,1,7,15,31
CSA Certificate	1211841
Code of Protection	Ex d IIC, Ex e II, Ex nR II; Enclosure Type 4X Class I, Div. 2, Groups B,C & D
Compliance Standards	C22.2 No 0,0.4, 94, 174, CAN/CSA-E60079-0,1,7,15
EAC Certificate (Formerly GOST R, K & B)	TC RU C-GB.ГБ05.B00138
KCC Certificate	14-GA4BO-0251X
NEPSI Certificate	GYJ13.1140X / GYJ13.1282X
INMETRO Approval	TÜV 12.0619X
CCOE / PESO Certificate (India)	P333688
RETIE Approval Number	03866
Marine Approvals	LRS: 01/00172 (E3), DNV: E-13848, ABS: 14-LD234401A-4-PDA
Ingress Protection Rating	IP66, IP67 & IP68 (when used with CMP Products installation accessories)**
Deluge Protection Compliance	DTS01 : 91
Cable Gland Material	Electroless Nickel Plated Brass (standard), Stainless Steel, Aluminium
Seal Material	CMP SOLO LSF Halogen Free Thermoset Elastomer
Cable Type	Unarmoured
Sealing Technique	CMP Unique Displacement Seal Concept
Sealing Area(s)	Cable Outer Sheath

** Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444*
*** Refer to www.cmp-products.com.au for further information on Ingress Protection Ratings*

Cable Gland Selection Table

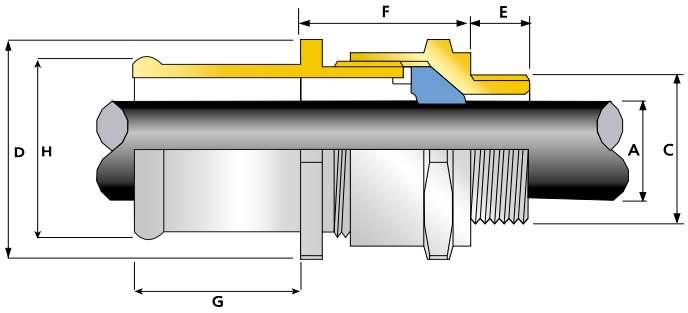
Refer to illustration at the top of the page

Dimensions listed below are for metric cable glands only
Dimensions for alternative threads may vary, please see supplementary technical data sheet

Cable Gland Size	Available Entry Threads "C"		Overall Cable Diameter "A"		Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Combined Ordering Reference (Nickel Plated Brass Metric)			Shroud	Cable Gland Weight (Kgs)
	Standard											
	Metric	Thread Length "E"	Min	Max	Max	Max		Size	Type	Ordering Suffix		
20s16	M20	15.0	3.2	8.7	24.0	26.4	25.1	20S16	A2F	1RA5	PVC04	0.070
20S	M20	15.0	6.1	11.7	24.0	26.4	25.1	20S	A2F	1RA5	PVC04	0.060
20	M20	15.0	6.5	14.0	27.0	29.7	27.2	20	A2F	1RA5	PVC05	0.070
25	M25	15.0	11.1	20.0	36.0	39.6	35.5	25	A2F	1RA5	PVC09	0.130
32	M32	15.0	17.0	26.3	41.0	45.1	34.2	32	A2F	1RA5	PVC10	0.150
40	M40	15.0	23.5	32.2	50.0	55.0	35.1	40	A2F	1RA5	PVC13	0.200
50S	M50	15.0	31.0	38.2	55.0	60.5	32.0	50S	A2F	1RA5	PVC15	0.260
50	M50	15.0	35.6	44.0	60.0	66.0	36.3	50	A2F	1RA5	PVC18	0.270
63S	M63	15.0	41.5	49.9	70.5	77.6	33.5	63S	A2F	1RA5	PVC21	0.430
63	M63	15.0	47.2	55.9	75.0	82.5	35.8	63	A2F	1RA5	PVC23	0.400
75S	M75	15.0	54.0	61.9	84.0	92.4	34.2	75S	A2F	1RA5	PVC26	0.520
75	M75	15.0	61.1	67.9	84.0	92.4	40.6	75	A2F	1RA5	PVC26	0.500
90	M90	24.0	66.6	79.9	108.0	118.8	58.3	90	A2F	1RA5	PVC31	1.600
100	M100	24.0	76.0	91.0	123.0	135.3	55.2	100	A2F	1RA5	LSF33	1.780
115	M115	24.0	86.0	97.9	133.4	146.7	65.2	115	A2F	1RA5	LSF34	2.670
130	M130	24.0	97.0	114.9	152.4	167.6	73.9	130	A2F	1RA5	LSF35	3.800

Dimensions are displayed in millimetres unless otherwise stated

Simtars



A2FHC

Ex e Exd ExnR Exta

A2FHC Mining & Overground, Internationally Approved, Explosive Atmosphere Cable Gland

For all types of Unarmoured Cables housed in Flexible Hose

- Standard material nickel plated brass
- Suitable for QLD & NSW coal mining applications
- External Hose connection facility
- Approved for Group I & Group II
- High quality durable materials
- Wide sealing range for each cable gland size
- Displacement type flameproof seal
- -60˚C to +130˚C
- Internationally marked, IECEx & ATEX

Available for Group I & II use

Options available:

PXSS2KREX-HC - Barrier gland
A2FHC with BSPP Entry Thread

TECHNICAL DATA	
Design Specification	BS 6121:Part 1:1989, IEC 62444, EN 62444
Mechanical Classifications*	Impact = Level 8, Retention = Class B
Enclosure Protection	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
ATEX Certificate	SIRA13ATEX1068X, SIRA13ATEX4074X
Code of Protection	Ex d IIC Gb, Ex e IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da (Group II) Ex d I Mb, Ex e I Mb (Group I)
Compliance Standards	EN 60079-0,1,7,15,31
IECEx Certificate	IECEx SIR 13.0023X, IECEx SIM 14.0006
Code of Protection	Ex d IIC Gb, Ex e IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da (Group II) Ex d I Mb, Ex e I Mb (Group I)
Compliance Standards	IEC 60079-0,1,7,15,31
EAC Certificate (Formerly GOST R, K & B)	TC C-GB. 05.B00138 (Group II)
KCC Certificate	13-GA4B0-0748X, 13-GA4B0-0749X, 13-GA4B0-0750X (Group II)
CCOE / PESO (India) Certificate	P333688 (Group II)
NEPSI Certificate	GYJ13.1140X / GYJ13.1282X (Group II)
INMETRO Approval	TUV 12.0878X (Group II)
Ingress Protection Rating	IP66, IP67 & IP68 (when used with CMP Products installation accessories)**
Deluge Protection Compliance	DTS01 : 91
Cable Gland Material	Electroless Nickel Plated Brass (standard), Stainless Steel, Aluminium
Seal Material	CMP SOLO LSF Halogen Free Thermoset Elastomer
Cable Type	Unarmoured & enclosed within hose for mechanical protection
Sealing Technique	CMP Displacement Seal
Sealing Area(s)	Cable Outer Sheath

** Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444*
*** Refer to www.cmp-products.com.au for further information on Ingress Protection Ratings*

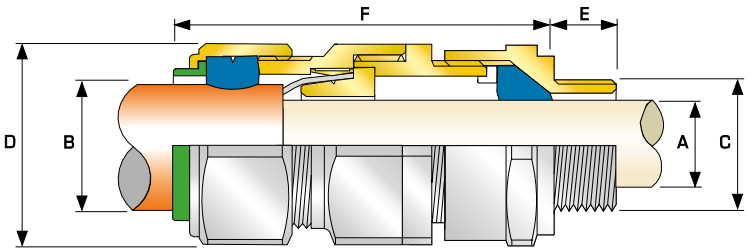
Cable Gland Selection Table

Refer to illustration at the top of the page

Dimensions listed below are for metric cable glands only
Dimensions for alternative threads may vary, please see supplementary technical data sheet

Cable Gland Size	Hose Diameter "H"	Standard Metric Entry Threads "C"	Minimum Thread Length "E"	Overall Cable Diameter "A"		Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Hose Connection Length "G"	Combined Ordering Reference (Nickel Plated Brass Metric)			Cable Gland Weight (Kgs)
				Min	Max	Max	Max			Size	Type	Ordering Suffix	
20S16	13.0	M20	15.0	3.2	8.7	24.0	26.4	26.6	16.0	20S16	A2FHC13	1RA5	0.100
20S16	16.0	M20	15.0	3.2	8.7	24.0	26.4	26.6	16.0	20S16	A2FHC16	1RA5	0.110
20S	16.0	M20	15.0	6.1	11.7	24.0	26.4	26.6	16.0	20S	A2FHC16	1RA5	0.090
20	19.0	M20	15.0	6.5	14.0	27.0	29.7	29.0	20.0	20	A2FHC19	1RA5	0.110
25	19.0	M25	15.0	11.1	20.0	36.0	39.6	37.3	20.0	25	A2FHC19	1RA5	0.210
25	25.0	M25	15.0	11.1	20.0	36.0	39.6	37.3	27.0	25	A2FHC25	1RA5	0.210
32	25.0	M32	15.0	17.0	26.3	41.0	45.1	36.2	27.0	32	A2FHC25	1RA5	0.270
32	32.0	M32	15.0	17.0	26.3	41.0	45.1	36.2	33.0	32	A2FHC32	1RA5	0.270
40	38.0	M40	15.0	23.5	32.2	50.0	55.0	36.6	41.0	40	A2FHC38	1RA5	0.380
50S	51.0	M50	15.0	31.0	38.2	55.0	60.5	34.0	54.0	50S	A2FHC51	1RA5	0.740
50	51.0	M50	15.0	35.6	44.0	60.0	66.0	37.8	54.0	50	A2FHC51	1RA5	0.570
63S	63.0	M63	15.0	41.5	49.9	70.5	77.6	33.0	70.0	63S	A2FHC63	1RA5	1.210
63	63.0	M63	15.0	47.2	55.9	75.0	84.0	36.5	70.0	63	A2FHC63	1RA5	0.860
75S	76.0	M75	15.0	54.0	61.9	84.0	92.4	33.4	91.5	75S	A2FHC76	1RA5	1.760
75	76.0	M75	15.0	61.1	67.9	85.0	93.5	38.7	91.5	75	A2FHC76	1RA5	1.260

Dimensions are displayed in millimetres unless otherwise stated



E1FW

Ex e Exd ExnR Exta

E1FW Globally Approved, Explosive Atmosphere Cable Gland

For all types of Steel & Aluminium Wire Armoured Cables

- Standard material nickel plated brass
- Metal-to-metal armour clamping
- Direct & remote installation
- Displacement type flameproof inner seal
- Controlled outer 'load retention' seal
- Unique OSTG prevents overtightening
- Designed to prevent Coldflow
- -60˚C to +130˚C
- Globally marked, IECEx, ATEX & cCSAus
- EMC tested

TECHNICAL DATA	
Design Specification	BS 6121:Part 1:1989, IEC 62444, EN 62444
Mechanical Classifications*	Impact = Level 8, Retention = Class D
Enclosure Protection	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
Electrical Classifications*	Category B
ATEX Certificate	SIRA13ATEX1071X, SIRA13ATEX4077X
Code of Protection	Ex II 2G, II 1D, Ex d IIC Gb, Ex e IIC Gb, Ex ta IIIC Da Ex II 3G Ex nR IIC Gc, Ex IM2 Ex d I Mb, Ex e I Mb
Compliance Standards	EN 60079-0,1,7,15,31
IECEx Certificate	IECEx SIR 13.0026X
Code of Protection	Ex d IIC Gb, Ex e IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da, Ex d I Mb, Ex e I Mb
Compliance Standards	IEC 60079-0,1,7,15,31
cCSAus Certificate	1310517
Code of Protection	Ex d IIC; Ex e II; Ex nR II; Class I, Div 2, Groups A,B,C,D, Class II, Div 2 Groups E,F,G, Class III, Encl Type T4X Class I, Zone 1, AEx e II / AEx nR II
Compliance Standards	CAN/CSA-C22.2 No 0,18,25,30,174,94, CAN/CSA-E60079-0,1,7,15 ANSI/UL 514B Ed 5, ANSI/UL 50 Ed 11, ANSI/UL 2225 Ed 4, UL60079-0,1,7,15
EAC Certificate (Formerly GOST R, K & B)	TC RU C-GB.ГБ05.B00138
KCC Certificate	14-GA4BO-0257X
CCOE / PESO (India) Certificate	P333688
NEPSI Certificate	GYJ13.1140X / GYJ13.1282X
INMETRO Approval	TÜV 12.0618X
RETIE Approval Number	03866
Marine Approvals	LRS: 01/00172 (E3), DNV: E-13848, ABS: 14-LD234401A-4-PDA
Ingress Protection Rating	IP66**
Cable Gland Material	Electroless Nickel Plated Brass (standard), Aluminium
Seal Material	CMP SOLO LSF Halogen Free Thermoset Elastomer
Cable Type	Single Wire Armour (SWA), Aluminium Wire Armour (AWA)
Armour Clamping	Detachable Armour Cone & AnyWay Universal Clamping Ring
Sealing Technique	CMP Inner Displacement Seal & Unique CMP 'LRS' ™ Outer Load Retention Seal
Sealing Area(s)	Cable Inner Bedding & Outer Cable Sheath

** Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444*
*** Refer to www.cmp-products.com.au for further information on Ingress Protection Ratings*

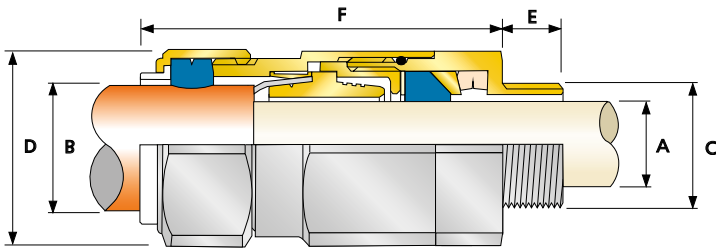
Cable Gland Selection Table

Refer to illustration at the top of the page

Dimensions listed below are for metric cable glands only
Dimensions for alternative threads may vary, please see supplementary technical data sheet

Cable Gland Size	Available Entry Threads "C" (Alternate Metric Thread Lengths Available)		Cable Bedding Diameter "A"		Overall Cable Diameter "B"		Armour Range		Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Combined Ordering Reference (Nickel Plated Brass Metric)			Shroud	Cable Gland Weight (Kgs)
	Standard															
	Metric	Thread Length "E"	Min	Max	Min	Max	Min	Max	Max	Max		Size	Type	Ordering Suffix		
20s16	M20	15.0	3.1	8.6	6.1	13.1	0.8	1.25	24.0	26.4	72.5	20S16	E1FW	1RA5	PVC04	0.16
20S	M20	15.0	6.1	11.6	9.5	15.9	0.8	1.25	24.0	26.4	70.0	20S	E1FW	1RA5	PVC04	0.15
20	M20	15.0	6.5	13.9	12.5	20.9	0.8	1.25	30.5	33.6	73.0	20	E1FW	1RA5	PVC06	0.21
25S	M25	15.0	11.1	19.9	14.0	22.0	1.25	1.6	37.5	41.3	89.0	25S	E1FW	1RA5	PVC09	0.33
25	M25	15.0	11.1	19.9	18.2	26.2	1.25	1.6	37.5	41.3	89.0	25	E1FW	1RA5	PVC09	0.33
32	M32	15.0	17.0	26.2	23.7	33.9	1.6	2.0	46.0	50.6	86.0	32	E1FW	1RA5	PVC11	0.43
40	M40	15.0	22.0	32.1	27.9	40.4	1.6	2.0	55.0	60.5	90.0	40	E1FW	1RA5	PVC15	0.62
50S	M50	15.0	29.5	38.1	35.2	46.7	2.0	2.5	60.0	66.0	91.0	50S	E1FW	1RA5	PVC18	0.75
50	M50	15.0	35.6	44.0	40.4	53.0	2.0	2.5	70.1	77.1	95.0	50	E1FW	1RA5	PVC21	0.95
63S	M63	15.0	40.1	49.9	45.6	59.4	2.0	2.5	75.0	82.5	102.0	63S	E1FW	1RA5	PVC23	1.34
63	M63	15.0	47.2	55.9	54.6	65.8	2.0	2.5	80.0	88.0	104.0	63	E1FW	1RA5	PVC25	1.34
75S	M75	15.0	52.8	61.9	59.0	72.0	2.0	2.5	90.0	99.0	115.0	75S	E1FW	1RA5	PVC28	2.11
75	M75	15.0	59.1	67.9	66.7	78.4	2.5	3.0	100.0	110.0	117.0	75	E1FW	1RA5	PVC30	2.42
90	M90	24.0	66.6	78.6	76.2	90.3	3.15	4.0	114.3	125.4	147.0	90	E1FW	1RA5	PVC32	4.21
100	M100	24.0	76.0	90.9	86.1	101.4	3.15	4.0	123.0	135.3	140.0	100	E1FW	1RA5	LSF33	4.45
115	M115	24.0	86.0	97.9	101.5	110.2	3.15	4.0	133.4	146.7	162.0	115	E1FW	1RA5	LSF34	6.19
130	M130	24.0	97.0	114.9	110.2	123.2	3.15	4.0	152.4	167.6	174.0	130	E1FW	1RA5	LSF35	8.34

Dimensions are displayed in millimetres unless otherwise stated



T3CDS

Triton CDS (T3CDS) Globally Approved, Explosive Atmosphere Cable Gland

For all types of Armoured Cables

- Standard material nickel plated brass
- Fully sequential, three step installation procedure
- Reduces installation times, cost & risk
- Direct & remote installation
- Unique compensating displacement seal system (CDS)
  - Metal-to-metal installation every time regardless of cable diameter
- Designed to prevent Coldflow
- Integral protected deluge seal
- Controlled outer 'load retention' seal
- Unique OSTG prevents overtightening
- -60˚C to +130˚C (standard), -20˚C to 200˚C (ThermEx option)
- Globally marked, IECEx, ATEX, UL & cCSAus
- EMC tested

† ***Grooved Cone (X)*** *is predominantly used for Wire Braid (e.g. GSWB, TCWB), Steel Tape Armour (STA, DSTA) and Aluminium Strip Armour (ASA) but is also suitable for Single Wire Armour (SWA), Aluminium Wire Armour (AWA) and Pliable Wire Armour (PWA) if the range is outside that of the Stepped Cone (W).*

Note: Grooved Cone (X) *dimensions shown in the Cable Gland Selection Table below are for a double wire strand of braid armour cables. Tapes can also be doubled over. For cables that have only a single layer of armour such as SWA the clamping range should be used as shown in the table below.*

Stepped (W) Cone *is suitable for Single Wire Armour (SWA), or Aluminium Wire Armour (AWA) cables.*

Option available for variable speed drive cables (VSD) T3CDSVAR

TECHNICAL DATA	
Design Specification	BS 6121:Part 1:1989, IEC 62444, EN 62444
Mechanical Classification*	Impact = Level 8, Retention = Class D
Enclosure Protection	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
Electrical Classification*	Category B (Category A when used with braid, tape or pliable wire armour cables)
ATEX Certificate	SIRA13ATEX1073X, SIRA13ATEX4079X
Code of Protection	Ex II 2G,II 1D, Ex d IIC Gb, Ex e IIC Gb, Ex ta IIIC Da, Ex II 3G Ex nR IIC Gc, Ex I M2, Ex d I Mb, Ex e I Mb
Compliance Standards	EN60079-0,1,7,15,31
IECEx Certificate	IECEx SIR 13.0028X
Code of Protection	Ex d IIC Gb, Ex e IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da, Ex d I Mb, Ex e I Mb
Compliance Standards	IEC 60079-0,1,7,15,31
cCSAus Certificate	1310517
Code of Protection	Class I, Div 2, Groups A,B,C and D, Class II, Div 2, Groups E,F and G, Class III, Enclosure Type 3, 4 and 4X, Ex d IIC, Ex e II, Ex nR II, Class I, Zone 1, AEx e II, AEx nR II
Compliance Standards	CAN/CSA-C22.2 No 0, 18, 25, 30, 94, 174, CAN/CSA-E60079-0, 1, 7, 15 ANSI/UL 514B Ed 5, ANSI/UL 50 Ed 11, ANSI/UL 2225 Ed 4, UL60079-0, 1, 7, 15
UL Certificate	E200163
Code of Protection	Class I, Zone 1, AEx e II
Compliance Standards	UL514B
EAC Certificate (Formerly GOST R, K & B)	TC RU C-GB.ГБ05.B00138
NEPSI Certificate	GYJ13.1141X / GYJ13.1283X
CCOE / PESO (India) Certificate	P333688
INMETRO Certificate	TUV 11.0374X
RETIE Certificate	03866
Marine Certificates	LRS: 01/00172 (E3), DNV: E-13848, ABS: 14-LD234401A-4-PDA
Ingress Protection Rating	IP66, IP67 & IP68 (when used with CMP Products installation accessories)**
Deluge Protection Compliance	DTS01 : 91
Cable Gland Material	Electroless Nickel Plated Brass (standard), Stainless Steel, Aluminium
Seal Material	CMP SOLO LSF Halogen Free Thermoset Elastomer
Cable Type(s)	Single Wire Armour (SWA), Aluminium Wire Armour (AWA), Pliable Wire Armour (PWA), Steel Tape Armour (STA), Aluminium Strip Armour (ASA), Screened Flexible (EMC) Wire Braid (e.g CY/SY), Wire Braid Armour (e.g SWB)
Armour Clamping	Reversible Armour Cone & AnyWay Universal Clamping Ring
Sealing Technique	Inner Bedding Sealing Ring: Compensating Displacement Seal (CDS), Outer Sheath Sealing Ring : Load Retention Seal (LRS)
Sealing Area(s)	Cable Inner Bedding & Outer Cable Sheath

** Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444*
*** Refer to www.cmp-products.com.au for further information on Ingress Protection Ratings*

Cable Gland Selection Table

Refer to illustration at the top of the page

Dimensions listed below are for metric cable glands only
Dimensions for alternative threads may vary, please see supplementary technical data sheet

Cable Gland Size	Available Entry Threads "C" (Alternate Metric Thread Lengths Available)		Cable Bedding Diameter "A"		Overall Cable Diameter "B"		Armour Range †				Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Combined Ordering Reference (Nickel Plated Brass Metric)			Shroud	Cable Gland Weight (Kgs)
	Standard						Grooved Cone (X)		Stepped Cone (W)									
	Metric	Thread Length "E"	Min	Max	Min	Max	Min	Max	Min	Max	Max	Max		Size	Type	Ordering Suffix		
20s16	M20	15.0	3.1	8.6	6.1	13.1	0.3	1.0	0.8	1.25	24.0	26.4	78.7	20S16	T3CDS	1RA5	PVC36	0.20
20S	M20	15.0	6.1	11.6	9.5	15.9	0.3	1.0	0.8	1.25	24.0	26.4	78.7	20S	T3CDS	1RA5	PVC36	0.20
20	M20	15.0	6.5	13.9	12.5	20.9	0.4	1.0	0.8	1.25	30.5	33.6	76.2	20	T3CDS	1RA5	PVC06	0.28
25S	M25	15.0	11.1	19.9	14.0	22.0	0.4	1.2	1.25	1.6	37.5	41.3	88.8	25S	T3CDS	1RA5	PVC09	0.44
25	M25	15.0	11.1	19.9	18.2	26.2	0.4	1.2	1.25	1.6	37.5	41.3	88.7	25	T3CDS	1RA5	PVC09	0.44
32	M32	15.0	17.0	26.2	23.7	33.9	0.4	1.2	1.6	2.0	46.0	50.6	90.7	32	T3CDS	1RA5	PVC11	0.63
40	M40	15.0	22.0	32.1	27.9	40.4	0.4	1.6	1.6	2.0	55.0	60.5	93.2	40	T3CDS	1RA5	PVC15	0.91
50S	M50	15.0	29.5	38.1	35.2	46.7	0.4	1.6	2.0	2.5	60.0	66.0	100.7	50S	T3CDS	1RA5	PVC18	1.12
50	M50	15.0	35.6	44.0	40.4	53.0	0.6	1.6	2.0	2.5	70.1	77.1	105.8	50	T3CDS	1RA5	PVC21	1.60
63S	M63	15.0	40.1	49.9	45.6	59.4	0.6	1.6	2.0	2.5	75.0	82.5	102.5	63S	T3CDS	1RA5	PVC23	1.73
63	M63	15.0	47.2	55.9	54.6	65.8	0.6	1.6	2.0	2.5	80.0	88.0	105.4	63	T3CDS	1RA5	PVC25	1.78
75S	M75	15.0	52.8	61.9	59.0	72.0	0.6	1.6	2.0	2.5	90.0	99.0	110.6	75S	T3CDS	1RA5	PVC28	2.57
75	M75	15.0	59.1	67.9	66.7	78.4	0.6	1.6	2.5	3.0	100.0	110.0	120.3	75	T3CDS	1RA5	PVC30	3.33
90	M90	24.0	66.6	78.6	76.2	90.3	0.8	1.6	3.15	4.0	115.0	126.5	138.9	90	T3CDS	1RA5	PVC32	4.87
100	M100	24.0	76.0	90.9	86.1	101.4	0.8	1.6	3.15	4.0	127.0	139.7	128.2	100	T3CDS	1RA5	LSF33	4.97
115	M115	24.0	86.0	97.9	101.5	110.2	0.8	1.6	3.15	4.0	138.0	151.8	161.3	115	T3CDS	1RA5	LSF34	7.72
130	M130	24.0	97.0	114.9	110.2	123.2	0.8	1.6	3.15	4.0	157.0	172.7	173.3	130	T3CDS	1RA5	LSF35	9.78

Dimensions are displayed in millimetres unless otherwise stated

RapidEx - The Fast Curing, Gas Blocking, Liquid Resin Seal

The effective sealing of instrument and electrical cables should not be underestimated.

Traditional barrier type Cable Glands employing an epoxy-cured clay based sealing compound, have been used in the industry for many years, to provide effective explosion protection. However, a certain degree of skill is required with this Traditional installation process and the risk of voids increases with the number of cable cores.

Multi-core cable requires the highest degree of competence and a long installation time to ensure a void-free, safe installation. Not to recognize this will lead to rework, or risk of failure of the seal.

RapidEx is a liquid pour, fast curing, liquid resin barrier seal that installs in seconds and cures in minutes.

Its unique formula begins with a low viscosity liquid that flows into the cable interstices completely surrounding the cable conductors, and in the process displacing the air from the Cable Gland's sealing chamber ensuring the 'perfect seal'.

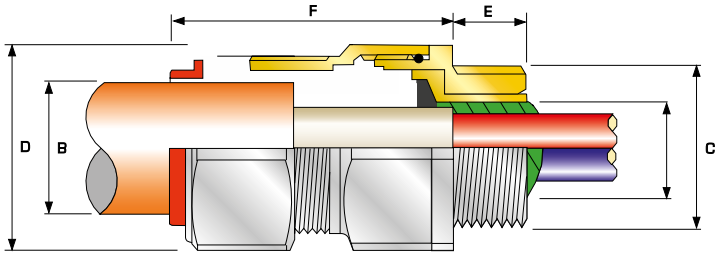
- The viscosity increases and completely cures in less than 40 minutes (at 20°C)
- Enhances reliability, reduces risk
- Delivers unprecedented reliability
- Minimises installation time
- Clean and easy to use

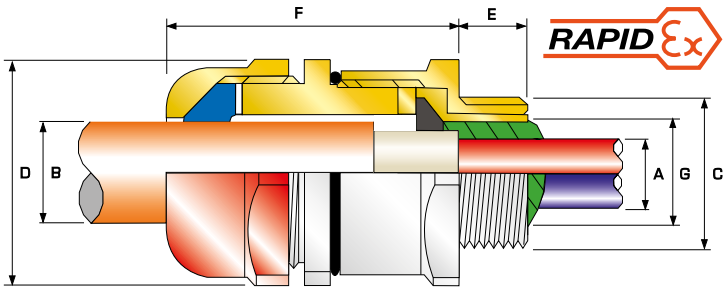
CMP RapidEx is certified for use in Explosive Atmospheres with Global Certification including approval under IEC, NEC and CEC installation codes, and is supplied with a series of CMP barrier type cable glands and unions.








F
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C



PXSS2KREX

Ex e Exd ExnR Exta

PXSS2KREX Globally Approved, Explosive Atmosphere RapidEx Barrier Cable Gland

For all types of Unarmoured & Braid Cables

- RapidEx liquid pour sealing system
  - Enhances reliability, reduces risk
  - Reduces man hours
  - Reduces cost
- Direct & remote installation
- Superior levels of cable retention
- Displacement type environmental seal
- Deluge protected
- -60˚C to +85˚C
- Globally marked, IECEx, ATEX & cCSAus

PXSS2KREX design options available:

PXSS2K - Epoxy compound design
PXSS2KHCREX - Hose connection facility

TECHNICAL DATA	
Design Specification	BS 6121:Part 1:1989, IEC 62444, EN 62444
Mechanical Classifications*	Impact = Level 8, Retention = Class B
Enclosure Protection	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
ATEX Certificate	SIRA13ATEX1072X, SIRA13ATEX4078X
Code of Protection	Ex II 2G, II 1D, Ex d IIC Gb, Ex e IIC Gb, Ex ta IIIC Da Ex II 3G Ex nR IIC Gc, Ex IM2 Ex d I Mb, Ex e I Mb
Compliance Standards	EN 60079-0,1,7,15,31
IECEx Certificate	IECEx SIR 13.0027X
Code of Protection	Ex d IIC Gb, Ex e IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da, Ex d I Mb, Ex e I Mb
Compliance Standards	IEC 60079-0,1,7,15,31
cCSAus Certificate	2288626
Code of Protection	Class I, Groups A, B, C and D; Class II, Div. 2, Groups F and G; Class III, Div. 2; Type 4X; Oil Resistance II Class I, Zone 1 AEx d IIC Gb, AEx e IIC Gb, Class I, Zone 2 AEx nR IIC Gc, Class I, Zone 20 AEx ta IIIC Da
Compliance Standards	CAN/CSA-C22.2 No 0,18,25,30,94,174, CAN/CSA-E60079-0,1,7,31 CAN CSA-E61241-1-1, Part 1-1, ANSI/UL 514B Ed 5, ANSI/UL 50 Ed 11, ANSI/UL 2225 Ed 4, UL60079-0:07
EAC Certificate (Formerly GOST R, K & B)	TC RU C-GB.ГБ05.B00138
CCOE / PESO (India) Certificate	P333688
NEPSI Certificate	GYJ13.1140X / GYJ13.1282X
INMETRO Approval	TÜV 12.2073X
RETIE Approval Number	03866
Marine Approvals	LRS: 01/00172 (E3) DNV: E-13848 ABS: 14-LD234401A-4-PDA
Ingress Protection Rating	IP66, IP67 & IP68 (when used with CMP Products installation accessories)**
Deluge Protection Compliance	DTS01 : 91
Cable Gland Material	Electroless Nickel Plated Brass (standard),Stainless Steel, Aluminium
Seal Material	CMP SOLO LSF Halogen Free Thermoset Elastomer / RapidEx Barrier Compound
Cable Type	Unarmoured (where permitted by code)
Sealing Technique	Unique CMP 'LRS' Outer Seal (Load Retention Seal)
Sealing Area(s)	RapidEx Resin Barrier & Cable Outer Sheath

** Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444*
*** Refer to www.cmp-products.com.au for further information on Ingress Protection Ratings*

Cable Gland Selection Table

Refer to illustration at the top of the page

Dimensions listed below are for metric cable glands only
Dimensions for alternative threads may vary, please see supplementary technical data sheet

Cable Gland Size	Available Entry Threads "C" (Alternate Metric Thread Lengths Available)		Number of Cores	Diameter Over Conductors "A"	Cable Bedding Diameter "G"	Overall Cable Diameter "B"		Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Combined Ordering Reference (Nickel Plated Brass Metric)			Shroud	Cable Gland Weight (Kgs)
	Standard														
	Metric	Thread Length "E"	Max	Max	Max	Min	Max	Max	Max		Size	Type	Ordering Suffix		
20s16	M20	15.0	11	8.6	8.6	3.1	8.6	30.0	33.0	53.1	20S16	PXSS2KREX	1RA5	PVC06	0.200
20S	M20	15.0	11	11.7	11.7	6.1	11.7	30.0	33.0	53.1	20S	PXSS2KREX	1RA5	PVC06	0.200
20	M20	15.0	11	12.6	12.9	6.5	14.0	30.0	33.0	54.2	20	PXSS2KREX	1RA5	PVC06	0.200
25	M25	15.0	21	17.5	17.9	11.1	20.0	36.0	39.6	60.0	25	PXSS2KREX	1RA5	PVC09	0.330
32	M32	15.0	38	23.6	23.9	17.0	26.3	41.0	45.1	61.1	32	PXSS2KREX	1RA5	PVC10	0.590
40	M40	15.0	59	30.0	30.3	22.0	32.1	50.0	55.0	62.4	40	PXSS2KREX	1RA5	PVC13	0.560
50S	M50	15.0	89	36.6	36.9	29.5	38.2	55.0	60.5	65.2	50S	PXSS2KREX	1RA5	PVC15	0.660
50	M50	15.0	89	41.0	41.3	35.6	44.0	60.0	66.0	67.6	50	PXSS2KREX	1RA5	PVC18	0.730
63S	M63	15.0	115	47.9	48.4	40.1	49.9	70.0	77.0	71.1	63S	PXSS2KREX	1RA5	PVC21	1.070
63	M63	15.0	115	53.7	54.0	47.2	55.9	75.0	82.5	70.4	63	PXSS2KREX	1RA5	PVC23	1.060
75S	M75	15.0	140	59.9	60.2	52.8	61.9	80.0	88.0	75.3	75S	PXSS2KREX	1RA5	PVC25	1.300
75	M75	15.0	140	64.3	64.2	59.1	67.9	85.0	93.5	74.9	75	PXSS2KREX	1RA5	PVC27	1.300
90	M90	24.0	200	75.3	75.6	66.6	79.4	108.0	118.8	94.8	90	PXSS2KREX	1RA5	PVC31	3.020
100	M100	24.0	200	85.6	85.9	76.0	90.9	123.0	135.3	86.3	100	PXSS2KREX	1RA5	LSF33	4.000

Dimensions are displayed in millimetres unless otherwise stated

747 757 767 Ex e Exd Exta

Stopper Plugs

- Available in dome, hexagon & recessed heads
- Provides means of blanking unused cable entries
- Temporary or permanent
- Tamper-proof version available
- General purpose / industrial version available
- Nylon Ex e only version available (-20˚C to +60˚C)
- -60˚C to 200˚C (metallic versions)
- Globally marked, IECEx, ATEX, cCSAus & UL
- NPT & metric threads available

Design Specification	BS 6121:Part 1:1989, IEC 62444, EN 62444
Enclosure Protection	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel Only
ATEX Certificate	SIRA13ATEX1265X
Code of Protection	Ⓔx II 2G Ex d IIC Gb, Ex e IIC Gb, II 1D Ex ta IIIC Da Ⓔx IM2 Ex d I Mb, Ex e I Mb (II 2G Ex e IIC Gb, II 1D Ex ta IIIC Da only Nylon)
Compliance Standards	EN 60079-0,1,7, 31
IECEx Certificate	IECEx SIR 13.0094X
Code of Protection	Ex d I Mb, Ex e I Mb; Ex d IIC Gb,Ex e IIC Gb, Ex ta IIIC Da
Compliance Standards	IEC 60079-0,1, 7, 31



747 Thread Size	747 - Recessed	757 Thread Size	757 - Hexagon	767 Thread Size	767 - Dome
1/2"	747DAT15	M16 X 1.5	757DM15	M16 X 1.5	767DM15
3/4"	747DAT25	M20 X 1.5	757DM25	M20 X 1.5	767DM25
1"	747DAT35	M25 X 1.5	757DM35	M25 X 1.5	767DM35
1-1/4"	747DAT45	M32 X 1.5	757DM45	M32 X 1.5	767DM45
1-1/2"	747DAT55	M40 X 1.5	757DM55	M40 X 1.5	767DM55
2"	747DAT65	M50 X 1.5	757DM65	M50 X 1.5	767DM65
2-1/2"	747DAT75	M63 X 1.5	757DM75	M63 X 1.5	767DM75
3"	747DAT85	M75 X 1.5	757DM85	M75 X 1.5	767DM85
3-1/2"	747DAT95	M90 X 2.0	757DM95	M90 X 2.0	767DM95
4"	747DAT105	M100 x 2.0	757DM105	M100 x 2.0	767DM105

All dimensions shown are in millimetres unless otherwise stated

PX780REX Ex e Exd Exta RAPID Ex

In-line Barrier Unions

- Allows the connection of conduit or glands to equipment
- Suitable for rigid or flexible conduit
- Eliminates the need to rotate the conduit
- General Purpose / industrial version available
- Equipment interface 'O' ring seal available
- -60˚C to +85˚C
- Globally marked, IECEx, ATEX & cCSAus
- NPT threads available

Design Specification	BS 6121:Part 1:1989, IEC 62444, EN 62444
Enclosure Protection	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
ATEX Certification	SIRA10ATEX1306U
Code of Protection	Ⓔx II 2 GD Ex d IIC Gb, Ex e IIC Gb, Ex ta IIIC Da IP6X Ⓔx IM2 Ex d I Mb / Ex e I Mb
Compliance Standards	EN 60079-0,1,7,31
IECEx Certificate	IECEx SIR 10.0148U
Code of Protection	Ex d IIC Gb, Ex e IIC Gb, Ex ta IIIC Da IP6X, Ex d I Mb, Ex e I Mb
Compliance Standards	IEC 60079-0,1,7,31

Ordering Reference	Male Forward Thread Size	Female Rear Thread Size
PX780REXDM2M25	M20 X 1.5	M20 X 1.5
PX780REXDM3M35	M25 X 1.5	M25 X 1.5
PX780REXDM4M45	M32 X 1.5	M32 X 1.5
PX780REXDM5M55	M40 X 1.5	M40 X 1.5
PX780REXDT1T15	1/2"	1/2"
PX780REXDT2T25	3/4"	3/4"
PX780REXDT1M25	1/2"	M20 X 1.5
PX780REXDT2M35	3/4"	M25 X 1.5

All dimensions shown are in millimetres unless otherwise stated

781 Ex e Exd Exta

Breather / Drains

- 781E for Ex e use
- 781D for Ex d use
- Drains equipment susceptible to moisture collection
- Enables equipment to breathe
- General purpose / industrial version available
- Nylon Ex e only version available (-20˚C to +60˚C)
- -60˚C to 130˚C (metallic versions)
- Globally marked, IECEx, ATEX & cCSAus
- NPT threads available



Design Specification	BS 6121:Part 1:1989, IEC 62444, EN 62444
Enclosure Protection	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel Only
ATEX Certificate	SIRA 10 ATEX 1307U
Code of Protection	781D: Ⓔx II 2G Ex d IIC Gb, II 1D Ex ta IIIC Da 781E: Ⓔx II 2G Ex e IIC Gb, II 1D Ex ta IIIC Da
Compliance Standards	EN 60079-0,1,7,31
IECEx Certificate	IECEx SIR 10.0149U
Code of Protection	781D: Ex d IIC Gb, Ex ta IIIC Da 781E: Ex e IIC Gb, Ex ta IIIC Da
Compliance Standards	IEC 60079-0,1,7,31

Ordering Reference 781D	Ordering Reference 781E	Thread Size
781DM25	781EM25	M20 X 1.5
781DM35	781EM35	M25 X 1.5
781DM24 (Stainless Steel)	781EM24 (Stainless Steel)	M20 X 1.5
781DM34 (Stainless Steel)	781EM34 (Stainless Steel)	M25 X 1.5

All dimensions shown are in millimetres unless otherwise stated

789 Ex e Exd Exta

90° Swivel Unions

- Allows the connection of conduit or glands to equipment
- Suitable for rigid or flexible conduit
- Eliminates the need to rotate the conduit
- General Purpose / industrial version available
- RapidEx barrier version available
- Equipment interface 'O' ring seal available
- -60˚C to 200˚C
- Globally marked, IECEx, ATEX & cCSAus

Design Specification	BS 6121:Part 1:1989, IEC 62444, EN 62444
Enclosure Protection	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
ATEX Certification	SIRA10ATEX1306U
Code of Protection	Ⓔx II 2 GD Ex d IIC Gb, Ex e IIC Gb, Ex ta IIIC Da IP6X Ⓔx IM2 Ex d I Mb / Ex e I Mb
Compliance Standards	EN 60079-0,1,7,31
IECEx Certificate	IECEx SIR 10.0148U
Code of Protection	Ex d IIC Gb, Ex e IIC Gb, Ex d I Mb, Ex e I Mb, Ex ta IIIC Da IP6X
Compliance Standards	IEC 60079-0,1,7,31

Ordering Reference 789	Male Thread	Female Thread
789DM2M25	M20 X 1.5	M20 X 1.5
789DM3M35	M25 X 1.5	M25 X 1.5
789DM4M45	M32 X 1.5	M32 X 1.5
789DM5M55	M40 X 1.5	M40 X 1.5
789DM6M65	M50 X 1.5	M50 X 1.5
789DM7M75	M63 X 1.5	M63 X 1.5
789DT1M25	1/2"	M20 X 1.5
789DT2M35	3/4"	M25 X 1.5
789DT1T15	1/2"	1/2"
789DT2T25	3/4"	3/4"

All dimensions shown are in millimetres unless otherwise stated

737 Ex e Exd Exta

Adaptors & Reducers

- Used for thread conversion
- Virtually any thread type can be supplied
- Wide range of thread types & sizes
- General purpose / industrial version available
- Equipment interface 'O' ring seal available
- -60˚C to +200˚C (metallic versions)
- Globally marked, IECEx, ATEX, UL & cCSAus
- NPT threads available

Design Specification	BS 6121:Part 1:1989, IEC 62444, EN 62444
Enclosure Protection	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel Only
ATEX Certificate	SIRA13ATEX1265X
Code of Protection	Ⓔx II 2G Ex d IIC Gb, Ex e IIC Gb, II 1D Ex ta IIIC Da Ⓔx IM2 Ex d I Mb, Ex e I Mb (II 2G Ex e IIC Gb, II 1D Ex ta IIIC Da only on Nylon version)
Compliance Standards	EN 60079-0,1,7,31
IECEx Certificate	IECEx SIR13.0094X
Code of Protection	Ex d I Mb, Ex e I Mb, Ex d IIC Gb, Ex e IIC Gb, Ex ta IIIC Da (Ex e IIC Gb , Ex ta IIIC Da only on nylon version)
Compliance Standards	IEC 60079-0,1,7,31

Ordering Reference	Male Thread Size	Female Thread Size
737DM2M35	M20 X 1.5	M25 X 1.5
737DM3M45	M25 X 1.5	M32 X 1.5
737DM3M25	M25 X 1.5	M20 X 1.5
737DM4M35	M32 X 1.5	M25 X 1.5
737DT1M25	NPT 1/2"	M20 X 1.5
737DT2M35	NPT 3/4"	M25 X 1.5
737DM2T15	M20 X 1.5	NPT 1/2"
737DB2M35	BSPP 3/4"	M25 X 1.5
737DP1M25	PG 9	M20 X 1.5

All dimensions shown are in millimetres unless otherwise stated

787 Ex e Exd Exta

90° Adaptors

- Protects cables from excessive bending stress
- General purpose / industrial version available
- Supplied with male or female threads
- Can be supplied with thread conversion
- Equipment interface 'O' ring seal available
- -60˚C to +200˚C
- Globally marked, IECEx, ATEX & cCSAus
- Can be used with 737 (not Ex d direct entry applications)
- NPT threads available

Design Specification	BS 6121:Part 1:1989, IEC 62444, EN 62444
Enclosure Protection	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel Only
ATEX Certificate	SIRA14ATEX1033U
Code of Protection	Ⓔx II 2 G Ex d IIC Gb,Ex e IIC Gb, II 1 D Ex ta IIIC Da Ⓔx IM2 Ex d I Mb, Ex e I Mb
Compliance Standards	EN 60079-0,1,7,31
IECEx Certificate	IECEx SIR14.0014U
Code of Protection	Ex d I Mb/ Ex e I Mb/ Ex d IIC Gb / Ex e IIC Gb / Ex ta IIIC Da
Compliance Standards	IEC 60079-0,1,7,31

Ordering Reference	Male Thread Size	Female Thread Size
787DM2M25	M20 X 1.5	M20 X 1.5
787DM3M35	M25 X 1.5	M25 X 1.5
787DM4M45	M32 X 1.5	M32 X 1.5
787DM5M55	M40 X 1.5	M40 X 1.5
787DT1T15	NPT 1/2"	NPT 1/2"
787DT2T25	NPT 3/4"	NPT 3/4"
787DT1M25	NPT 1/2"	M20 X 1.5
787DT2M35	NPT 3/4"	M25 X 1.5

All dimensions shown are in millimetres unless otherwise stated

777 Ex e Exd Exta

Insulated Adaptors

- Isolates metallic Cable Glands from equipment
- Essential in areas of high electromagnetic noise
- Particularly relevant in power plants
- General purpose / industrial version available
- Can be supplied with thread conversion
- -60˚C to +130˚C
- Globally marked, IECEx, ATEX & cCSAus
- NPT threads available

Design Specification	BS 6121:Part 1:1989, IEC 62444, EN 62444
Enclosure Protection	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel Only
ATEX Certificate	SIRA10ATEX1057U
Code of Protection	Ⓔx II 2 GD Ex d IIC Gb / Ex e IIC Gb / Ex ta IIIC Da
Compliance Standards	EN 60079-0,1,7,31
IECEx Certificate	IECEx SIR 10.0027U
Code of Protection	Ex d IIC Gb / Ex e IIC Gb / Ex ta IIIC Da
Compliance Standards	IEC 60079-0,1,7,31

Ordering Reference	Male Thread Size	Female Thread Size
777DAM2M25	M20 X 1.5	M20 X 1.5
777DAM3M35	M25 X 1.5	M25 X 1.5
777DAM4M45	M32 X 1.5	M32 X 1.5
777DAM5M55	M40 X 1.5	M40 X 1.5
777DAM6M65	M50 X 1.5	M50 X 1.5
777DAM7M75	M63 X 1.5	M63 X 1.5
777DAM8M85	M75 X 1.5	M75 X 1.5
777DAM9M95	M90 X 2.0	M90 X 2.0

All dimensions shown are in millimetres unless otherwise stated

797 Ex e Exd Exta

Male-Male Nipples

- Designed to convert existing threads
- General purpose / industrial version available
- Supplied with male or female threads
- Can be supplied with thread conversion
- -60˚C to +200˚C
- Globally marked, IECEx, ATEX & cCSAus
- NPT threads available

Design Specification	BS 6121:Part 1:1989, IEC 62444, EN 62444
Enclosure Protection	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel Only
ATEX Certificate	SIRA13ATEX1265X
Code of Protection	Ⓔx II 2 G Ex d IIC Gb,Ex e IIC Gb, II 1 D Ex ta IIIC Da Ⓔx IM2 Ex d I Mb, Ex e I Mb
Compliance Standards	EN 60079-0,1,7,31
IECEx Certificate	IECEx SIR13.0094X
Code of Protection	Ex d I Mb/ Ex e I Mb/ Ex d IIC Gb / Ex e IIC Gb / Ex ta IIIC Da
Compliance Standards	IEC 60079-0,1,7,31

Ordering Reference	Male Forward Thread	Male Rear Thread
797DM1MM1M5	M16 X 1.5	M16 X 1.5
797DM2MM2M5	M20 X 1.5	M20 X 15
797DM3MM3M5	M25 X 1.5	M25 X 1.5
797DM4MM4M5	M32 X 1.5	M32 X 1.5
797DT1MT1M5	1/2"	1/2"
797DT2MT2M5	3/4"	3/4"
797DT3MT3M5	1"	1"
797DM2MT1M5	M20 X 1.5	1/2"
797DM2MT2M5	M20 X 1.5	3/4"
797DM3MT2M5	M25 X 1.5	3/4"

All dimensions shown are in millimetres unless otherwise stated

Ordering Accessories

To determine ordering reference please select from the tables below in the following order:

- Product Type
- Form of protection
- Thread Form
- Thread Size
- Thread Form (if applicable)
- Thread Size (if applicable)
- Material

When selecting and installing certified electrical equipment and components in potentially Explosive Atmospheres, it is the users responsibility to ensure that the local industry codes of practice are observed and followed, for example AS/NZS 60079-14.

Below Example:

737DM3M25

737 Adaptor - Dual Certified Ex d & Ex e - M25 (M) x M20 (F) - Nickel Plated Brass

Product Type	Form of Protection	Male Thread Form	Male Thread Size	Female Thread Form	Female Thread Size	Material
From Product Page	From Table A Below	From Table C Below	From Table D Below	From Table C Below	From Table D Below	From Table E Below
737	D	M	3	M	2	5

Table A

Code	Form of Protection
D	Group II Dual Certified Ex d & Ex e

Table C

Code	Thread Form
M	Metric
N	NPSM
T	NPT
P	PG
B	BSPP
I	E.T. (Imperial)
S	BSPT

Other variations available on request

Nominal dimensions shown in this catalogue may vary due to material availability. All dimensions shown are in millimetres unless otherwise stated. Within the parameters of its Explosive Atmosphere certification, CMP Products reserves the right to change the design and/or dimensions of any of the products illustrated without notice. For further information please contact CMP Products.

Table D

Code	Thread Size						
	Metric "M"	NPSM "N"	NPT "T"	PG "P"	BSP "B"	Imperial "I"	BSP "S"
1A	-	-	-	7	-	-	-
1	16	1/2"	1/2"	9	1/2"	5/8"	1/2"
2	20	3/4"	3/4"	11	3/4"	3/4"	3/4"
3	25	1"	1"	13.5	1"	1"	1"
4	32	1-1/4"	1-1/4"	16	1-1/4"	1-1/4"	1-1/4"
5	40	1-1/2"	1-1/2"	21	1-1/2"	1-1/2"	1-1/2"
6	50	2"	2"	29	2"	2"	2"
7	63	2-1/2"	2-1/2"	36	2-1/2"	2-1/2"	2-1/2"
8	75	3"	3"	42	3"	3"	3"
9	90	3 1/2"	3 1/2"	48	3-1/2"	3-1/2"	3 1/2"
10	100	4"	4"	-	4"	4"	4"

Note: Other thread sizes available upon request

Table E

Code	Material
4	Stainless Steel 316
5	Nickel Plated Brass

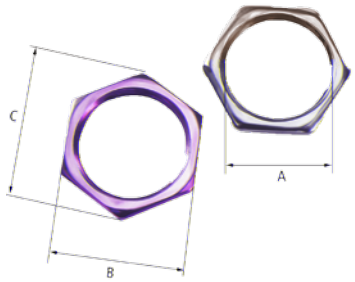
Ordering Reference (NP Brass)	Thread Diameter "A"	Minimum Thickness	Across Flats Dimension "B"	Across Corners Diameter "C"
16LN5	M16 X 1.5	3.2	22.0	25.4
16HLN5	M16 X 1.5	5.0	22.0	25.4
20LN5	M20 X 1.5	3.2	24.0	27.7
20HLN5	M20 X 1.5	5.0	24.0	27.7
25LN5	M25 X 1.5	3.2	30.0	34.6
25HLN5	M25 X 1.5	5.0	30.0	34.6
32LN5	M32 X 1.5	3.2	36.0	41.6
32HLN5	M32 X 1.5	5.0	36.0	41.6
40LN5	M40 X 1.5	4.8	46.0	53.1
50LN5	M50 X 1.5	6.3	55.0	63.5
63LN5	M63 X 1.5	6.3	70.0	80.8
75LN5	M75 X 1.5	6.3	84.0	97.0
90LN5	M90 X 2.0	9.5	106.0	122.4
100LN5	M100 X 2.0	9.5	123.0	142.0

All dimension shown are in millimetres unless otherwise stated

Locknuts

Nickel Plated Brass - Recommended in securing brass Cable Glands and Accessories to a gland plate or into equipment. In metric thread form CMP offers brass locknuts in a choice of standard duty and heavy duty options for sizes up to and including M32. The part numbers are distinguished by an additional letter H, e.g. 20LN = standard duty, and 20HLN = heavy duty. From size M40 all brass metric locknuts are considered to be heavy duty.

Aluminium - Recommended when installing aluminium Cable Glands to prevent the galvanic corrosion which can occur when dissimilar metals are coupled together.



Ordering Reference (Stainless Steel)	Reference Diameter "A"	Minimum Thickness	External Diameter "B"
16SW4	M16	3.9	25.5
20SW4	M20	3.9	32.5
25SW4	M25	3.9	40.0
32SW4	M32	3.9	43.5
40SW4	M40	3.9	64.5
50SW4	M50	3.9	80.0
63SW4	M63	3.9	100.0
75SW4	M75	4.1	112.0
90SW4	M90	4.1	135.0
100SW4	M100	4.1	145.0

All dimension shown are in millimetres unless otherwise stated

Serrated Washers

Available in Stainless Steel, these 'shake-proof' Serrated Washers are fitted internally to the equipment before a locknut and act as an anti-vibration device to prevent the Cable Gland or accessory from inadvertently loosening in service.

In typical installations that are not subject to vibration, a serrated washer may not be required but consideration should be given to the following statement:

Self-loosening should be avoided according to clause 6.4.1 of IEC 60079-14, this can occur through relative motion over time even without vibration, due to differential thermal effects caused as a result of either differences in temperature or differences in clamped materials.



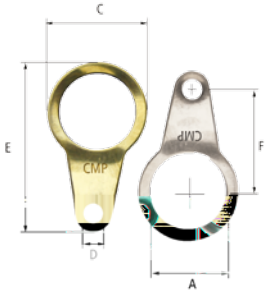
Ordering Reference (NP Brass)	Reference Diameter "A"	Minimum Thickness	Nominal Diameter "C"	Hole Size "D"	Nominal Length "E"	Nominal Centres "F"
16ET5	M16	1.3	25.4	M6	50.4	30.2
20ET5	M20	1.3	27.1	M6	52.3	33.1
25ET5	M25	1.5	35.1	M6	59.2	35.6
32ET5	M32	1.5	45.2	M12	77.0	43.1
40ET5	M40	1.5	53.7	M13	88.7	45.4
50ET5	M50	1.5	65.2	M13	111.2	58.1
63ET5	M63	1.5	82.6	M13	128.7	66.8
75ET5	M75	1.5	95.4	M13	141.5	73.0
90ET5	M90	2.0	114.2	M13	161.0	85.0
100ET5	M100	2.0	125.0	M13	194.8	118.0

All dimension shown are in millimetres unless otherwise stated

Earth Tags

CMP slip on Earth Tags, installed between the Cable Gland and equipment, provide an earth bond connection as specified in BS6121:Part 5:1993 and comply with category B rating specified in IEC 62444. CMP Earth Tags have been independently short circuit tested to verify their suitability under specified service conditions. A copy of the test report is available upon request and is an important factor when selecting earth tags from any manufacturer, as without this the safety of installations may be compromised.

Stainless steel, aluminium and nickel plated brass earth tags are also available. Please refer to ordering reference numbers, e.g 20ET4 for M20 Stainless Steel Earth Tag, 050NPTET4 for 1/2" NPT Stainless Steel Earth Tag.



CMP Earth Tag Size	Short Circuit Ratings Symmetrical Fault Current (kA) for 1 second
20	3.06
25	4.06
32	5.40
40	7.20
50	10.40
63	10.40
75	10.40

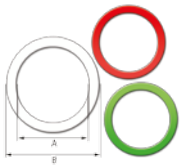
Ordering Reference (Nylon Metric)	Reference Diameter "A"	Minimum Thickness	External Diameter "B"
16ETS2	M16	2.0	25.4
20ETS2	M20	2.0	28.0
25ETS2	M25	2.0	34.4
32ETS2	M32	2.0	44.1
40ETS2	M40	2.0	50.5
50ETS2	M50	2.0	63.4
63ETS2	M63	2.0	76.5
75ETS2	M75	2.0	95.0
90ETS2	M90	2.0	110.0
All dimension shown are in millimetres unless otherwise stated			

Entry Thread Sealing Washers

To maintain the Ingress Protection rating between the equipment and the Cable Gland, it may be necessary to fit an Entry Thread Sealing Washer at the equipment-to-gland entry interface. For installations it is equally essential to maintain the ingress protection integrity at which the equipment has been rated.

The CMP metric Entry Thread Sealing Washers are produced in 2mm thick white nylon as standard which are recommended and meet the specified requirements of Shell's Offshore operations.

- Green Nylon Entry Thread Sealing Washers for NPT Threads
- White Nylon Entry Thread Sealing Washers for Metric Threads
- Red Fibre Entry Thread Sealing Washers for Metric Threads



Cable Gland Spanners

When installing Cable Glands and accessories it is important that the correct tools are used to carry out the installation. This includes the use of the correct Cable Gland Spanner specifically designed to fit each individual product to minimise the potential for accidental injury caused by slippage, as can be the case with adjustable spanners or wrenches.

SIZE	A**		C**			E**			T3CDS				PXSS2K		PX2K*	
	Spanner 1	Spanner 2	Spanner 1	Spanner 2	Spanner 3	Spanner 1	Spanner 2	Spanner 3	Spanner 1	Spanner 2	Spanner 3	Spanner 4	Spanner 1	Spanner 2	Spanner 1	Spanner 2
20s16	SP2	SP1	SP2	SP2	-	SP2	SP2	-	SP2	SP2	-	-	SP3	SP6	SP4	SP4
20s	SP2	SP1	SP2	SP2	-	SP2	SP2	-	SP2	SP2	-	-	SP3	SP6	SP4	SP4
20	SP3	SP2	SP4	SP6	-	SP6	SP6	SP4	SP4	SP4	-	-	SP6	SP6	SP4	SP4
25 & 25s	SP9	SP9	SP9	SP7	-	SP9	SP9	-	SP7	SP7	-	-	SP9	SP9	SP7	SP7
32	SP8	SP8	SP10	SP11	-	SP12	SP12	-	SP11	SP11	-	-	SP10	SP10	SP11	SP11
40	SP13	SP13	SP13	SP14	-	SP15	SP15	-	SP14	SP14	-	-	SP13	SP13	SP14	SP14
50s	SP14	SP14	SP18	SP18	-	SP15	SP18	SP18	SP18	SP16	SP18	-	SP14	SP14	SP18	SP18
50	SP18	SP18	SP19	SP20	SP20	SP18	SP19	SP20	SP20	SP18	SP20	-	SP18	SP18	SP20	SP20
63s	SP20	SP19	S020	SP21	SP21	SP20	SP20	SP21	SP21	SP19	SP21	-	SP20	SP20	SP21	SP21
63	SP21	SP20	SP39	SP22	SP22	SP21	SP39	SP22	SP22	SP20	SP22	-	SP21	SP21	SP22	SP22
75s	SP22	SP22	SP24	SP24	-	SP22	SP24	SP24	SP24	SP22	SP24	-	SP22	SP22	SP24	SP24
75	SP23	SP23	SP25	SP25	-	SP23	SP25	SP25	SP25	SP23	SP25	-	SP23	SP23	SP25	SP25
90	SP35	SP35	SP27	SP27	-	SP35	SP27	SP27	SP27	SP25	SP27	-	SP35	SP35	SP27	SP27
100	SP36	SP27	SP36	SP36	SP36	SP36	SP36	-	SP20	SP26	SP29	SP36	SP36	SP36	SP29	SP29
115	SP30	SP37	SP30	SP30	-	SP30	SP30	-	SP31	SP28	SP31	SP30	-	SP30	SP30	-
130	SP38	SP38	SP38	SP38	-	SP38	SP38	SP33	SP33	SP32	SP33	SP38	-	SP38	SP38	-

Outer Seal Tightening Guide (OSTG)

When installing Cable Glands it is vital that the correct tools are used to carry out the installation.

CMP Products' outer seal tightening guide (OSTG) are available for determining the size of the Cable Gland needed to suit a particular cable and also the amount of spanner turns needed to close down the sealing ring without damaging the cable. OSTG's can be provided free of charge, please contact 1300 GLANDS

NEWCASTLE (Headquarters)
Tel: +44 (0) 191 2657411
Fax: +44 (0) 1670 715 646
E-Mail: cmp@cmp-products.com
CMP Products
36, Nelson Way, Nelson Park East
Cramlington, Northumberland
NE23 1WH, United Kingdom

PERTH, WA
Tel: +61 8 9249 4508
Fax: +61 8 9249 4608
E-Mail: perthoffice@cmp-products.com
CMP Products Pty Ltd
Unit 3-22 Harlond Avenue, Malaga, WA 6090
Australia

BRISBANE, QLD
Tel: +61 7 3801 0301
Fax: +61 7 3801 0300
E-Mail: qldoffice@cmp-products.com
CMP Products Pty Ltd
Unit 2 / 1-5 Knobel Court, Shailer Park, QLD 4128
Australia

HOUSTON (Texas Inc)
Tel: +1 281 776 5201
Fax: +1 281 776 5223
E-Mail: houstonoffice@cmp-products.com
CMP Products Texas Inc
5222 N. Sam Houston Pkwy E.
Houston, Texas, 77032, USA

DUBAI
Tel: +971 4 214 6114
Fax: +971 4 214 6117
E-Mail: meoffice@cmp-products.com
CMP Products Middle East Office
Office 6WA Room 134, PO BOX 371725
Dubai Airport Free Zone, Dubai,
United Arab Emirates

BUSAN
Tel: +82 51 780 5300
Fax: +82 51 780 8348
E-Mail: busanoffice@cmp-products.com
CMP Products (Korea) Ltd
19F Rm1915 Centum IS Tower, #1209,
Jaesong1-dong, Haeundae-gu, Busan,
South Korea, 612051

SINGAPORE
Tel: +65 6466 6180
Fax: +65 6466 9891
E-Mail: seaoffice@cmp-products.com
CMP Products (S.E.A) Pte Ltd.
21 Toh Guan Road East, #09-03,
Toh Guan Centre, Singapore 608609

SHANGHAI
Tel: +86 21 6093 2633
Fax: +86 21 6093 2630
E-Mail: shanghaioffice@cmp-products.com
CMP Products Division
Room 304, Building 7, No.1888 XinJinqiao Road
Pudong, Shanghai 201206, P.R. China

JOHANNESBURG
Tel: +27 79 866 2171
Fax: +27 86 554 3240
E-Mail: africaoffice@cmp-products.com
CMP Products
49 New Road, Block A, Ground Floor
Midrand,1685, Johannesburg, S.A

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