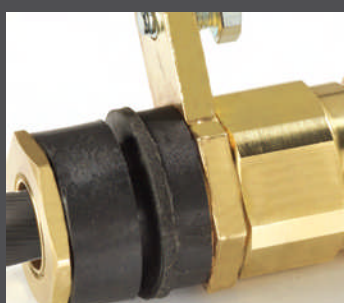




ZEN INSULATED CABLE GLANDS





■ APPLICATION

The CMP ZEN Range of insulated cable glands enables an innovative approach for electrical cable installations by providing a cable glanding method which permits the zoning of earth connections for earthed neutral system of supply. CMP ZEN cable glands enable flexibility in design of the earthing circuit and means of testing earth circuits without disconnecting the cable gland.

Circulating currents can be eliminated and cable noise in instrument cables can be controlled by single point earthing.

Insulated components are available in materials tested for use in containment areas of Nuclear type Pressurised Water Reactor Power Stations.

■ PRODUCTS

CMP ZEN range of cable glands are available to suit cables with single wire armour, including steel and aluminium wire armour, aluminium strip armour and steel tape armour.

■ SPECIFICATIONS & APPROVALS

Designed generally in accordance with BS6121 and EN50262

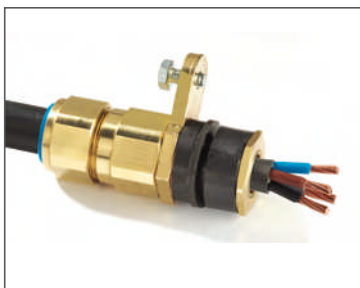
Specified extensively in the UK Power Stations and tested to GD CD190 specification.

■ HOW TO ORDER

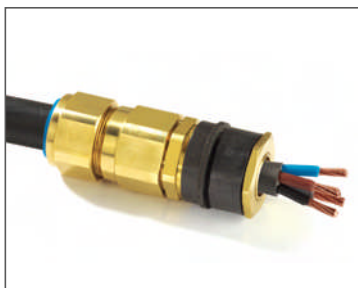
Please state cable gland type and size e.g. 25B3241RA.

Refer to specific catalogue page.

B324 ZEN CABLE GLAND



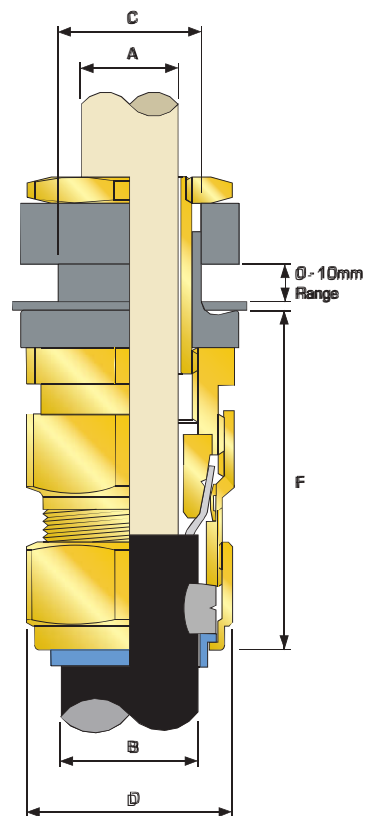
B348 ZEN CABLE GLAND



B324 & B348 ZEN Insulated Cable Gland

Cable gland for use with all types of SWA cable providing an IP66 environmental seal onto the cable outer sheath. The cable gland being suitable for armoured cables, provides mechanical retention and electrical continuity via armour wire termination. The type B324 comes complete with CMP unique Cast Integral Earth Lug (CIEL) concept. This is particular suitable for H.V. systems where a high level of protection against fault currents is required. This glanding concept effectively insulates the gland and cable armour from the equipment and eliminates system circulating currents. It is usual to install the type B324 at the supply end of the cable and the type B348 at the load end.

TECHNICAL DATA	
Type	B324 / B348
Design Specification	BS 6121:Part 1:1989, GDCD 190, EN 50262:1999
EN 50262 Mechanical Classifications	Retention = Class B, Impact = Level 8,
EN 50262 Electrical Classifications	Category A without use of an Earth Tag, Category B with an Earth Tag & Category C with CIEL.
GOST R Certificate Number	POCC GB. ГБ05.H00110
GOST K Certificate Number	KZ7500052.05.01.00063
RoK Permit for Use Number	08-067693
Continuous Operating Temperature	-60°C to +150°C
Ingress Protection Rating	IP66
Standard Gland Material	Brass
Alternative Gland Material	Electroless Nickel Plated Brass, Aluminium
Seal Material	CMP Formulated Thermoplastic Elastomer
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
Optional Accessories	Shroud, Earth Tag (B324 & A348 only)



Type B348 Illustrated

Aluminium version available for AWA cables.
When ordering Please substitute letter B in B324 & B348 with letter A.

Please refer to catalogue page 102 for dimensional details of the CIEL feature included in the B324 and A324 designs

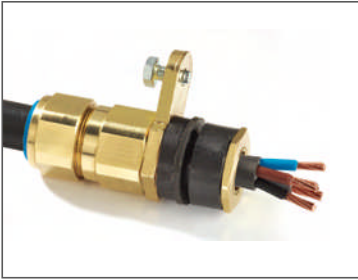
Cable Gland Selection Table

Cable Gland Size	Clearance Hole Diameter 'C'	Cable Bedding Diameter 'A'	Overall Cable Diameter 'B'		Armour Range †		Nominal Across Flats 'D'	Nominal Across Corners 'D'	Nominal Protrusion Length 'F'	Ordering Reference Brass With CIEL LUG (B324)	Ordering Reference Brass Without CIEL LUG (B348)	PVC Shroud Reference*	B324 Cable Gland Weight (Kgs)
		Max	Min	Max	Min	Max	Max	Max					
20S	20.5	11.7	9.5	15.9	0.9	1.25	24.0	26.6	58.0	20SB3241RA	20SB3481RA	PVC04	0.187
20	20.5	14.0	12.5	20.9	0.9	1.25	30.5	33.3	65.0	20B3241RA	20B3481RA	PVC06	0.235
25S	25.5	20.0	14.0	22.0	1.25	1.6	37.5	40.5	70.0	25SB3241RA	25SB3481RA	PVC09	0.334
25	25.5	20.0	18.2	26.2	1.25	1.6	37.5	40.5	70.0	25B3241RA	25B3481RA	PVC09	0.334
32	32.5	26.3	23.7	33.9	1.6	2.0	46.0	51.0	70.0	32B3241RA	32B3481RA	PVC11	0.458
40	40.5	32.2	27.9	40.4	1.6	2.0	55.0	61.0	70.0	40B3241RA	40B3481RA	PVC15	0.689
50S	50.5	38.2	35.2	46.7	2.0	2.5	60.0	66.5	72.0	50SB3241RA	50SB3481RA	PVC18	0.863
50	50.5	44.1	40.4	53.1	2.0	2.5	70.0	78.6	86.0	50B3241RA	50B3481RA	PVC21	1.028
63S	63.5	50.0	45.6	59.4	2.0	2.5	75.0	83.2	86.0	63SB3241RA	63SB3481RA	PVC23	1.589
63	63.5	56.0	54.6	65.9	2.0	2.5	80.0	89.0	96.0	63B3241RA	63B3481RA	PVC25	1.587
75S	75.5	62.0	59.0	72.1	2.0	2.5	89.0	101.6	98.0	75SB3241RA	75SB3481RA	PVC28	2.229
75	75.5	68.0	66.7	78.5	2.0	2.5	99.0	111.1	111.0	75B3241RA	75B3481RA	PVC30	2.534
90	90.5	79.4	76.2	90.4	3.15	3.15	114.0	128.6	136.0	90B3241RA	90B3481RA	PVC32	4.204

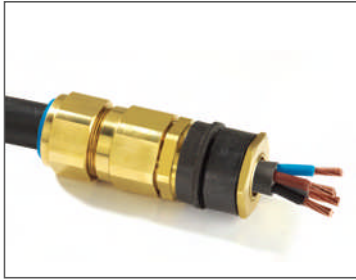
All dimensions in millimetres

Note: * LSF Shrouds also available on request. † Alternative armour clamping range available for non-standard armour sizes. Marine approvals including Lloyd's, DNV & ABS are also available from CMP Products.

B367 ZEN CABLE GLAND



B368 ZEN CABLE GLAND

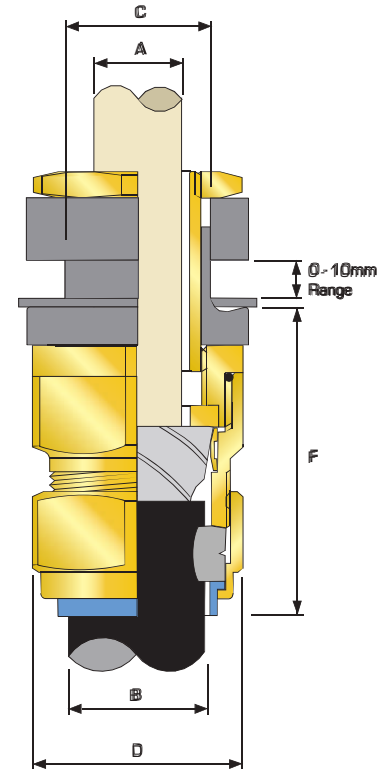


B367 & B368 ZEN Insulated Cable Gland

Cable gland for use with all types of DSTA cable providing an IP66 environmental seal onto the cable outer sheath. The cable gland being suitable for armoured cables, provides mechanical retention and electrical continuity via armour wire termination. The type B367 comes complete with CMP unique Cast Integral Earth Lug (CIEL) concept. This is particular suitable for H.V. systems where a high level of protection against fault currents is required. This glanding concept effectively insulates the gland and cable armour from the equipment and eliminates system circulating currents. It is usual to install the type B367 at the supply end of the cable and the type B368 at the load end.

TECHNICAL DATA

Type	B367 / B368
Design Specification	BS 6121:Part 1:1989, GDCD 190, EN 50262:1999
EN 50262 Mechanical Classifications	Retention = Class B, Impact = Level 8,
EN 50262 Electrical Classifications	Category A without use of an Earth Tag, Category B with an Earth Tag & Category C with CIEL.
GOST R Certificate Number	POCC GB. ГБ05.H00110
GOST K Certificate Number	KZ7500052.05.01.00063
RoK Permit for Use Number	08-067693
Continuous Operating Temperature	-60°C to +150°C
Ingress Protection Rating	IP66
Standard Gland Material	Brass
Alternative Gland Material	Electroless Nickel Plated Brass, Aluminium
Seal Material	CMP Formulated Thermoplastic Elastomer
Cable Type	Wire Braid Armour, Strip Armour (e.g. ASA), 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)	Outer Sheath
Optional Accessories	Shroud, Earth Tag (B368 & A368 only)



B368 Illustrated

Please refer to catalogue page 102 for dimensional details of the CIEL feature included in the B367 and A367 designs

Aluminium version available for AWA cables.
When ordering Please substitute letter B in B367 & B368 with letter A.

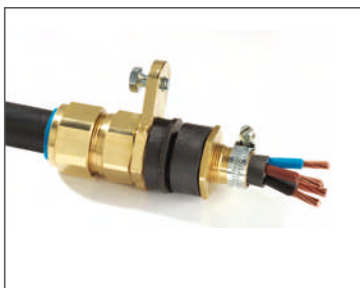
Cable Gland Selection Table

Cable Gland Size	Clearance Hole Diameter 'C'	Cable Bedding Diameter 'A'	Overall Cable Diameter 'B'		Armour Range †		Nominal Across Flats 'D'	Nominal Across Corners 'D'	Nominal Protrusion Length 'F'	Ordering Reference Brass With CIEL LUG (B367)	Ordering Reference Brass Without CIEL LUG (B368)	PVC Shroud Reference *	B367 Cable Gland Weigh (Kgs)
			Max	Min	Max	Min							
20S	20.5	11.7	9.50	15.9	0.0	1.0	24.0	26.6	58.0	20SB3671RA	20SB3681RA	PVC04	0.187
20	20.5	14.0	12.5	20.9	0.0	1.0	30.5	33.3	65.0	20B3671RA	20B3681RA	PVC06	0.235
25S	25.5	20.0	14.0	22.0	0.0	1.0	37.5	40.5	70.0	25SB3671RA	25SB3681RA	PVC09	0.334
25	25.5	20.0	18.2	26.2	0.0	1.0	37.5	40.5	70.0	25B3671RA	25B3681RA	PVC09	0.334
32	32.5	26.3	23.7	33.9	0.0	1.0	46.0	51.0	70.0	32B3671RA	32B3681RA	PVC11	0.458
40	40.5	32.2	27.9	40.4	0.0	1.0	55.0	61.0	70.0	40B3671RA	40B3681RA	PVC15	0.689
50S	50.5	38.2	35.2	46.7	0.0	1.0	60.0	66.5	72.0	50SB3671RA	50SB3681RA	PVC18	0.863
50	50.5	44.1	40.4	53.1	0.0	1.0	70.0	78.6	86.0	50B3671RA	50B3681RA	PVC21	1.028
63S	63.5	50.0	45.6	59.4	0.0	1.0	75.0	83.2	86.0	63SB3671RA	63SB3681RA	PVC23	1.589
63	63.5	56.0	54.6	65.9	0.0	1.0	80.0	89.0	98.0	63B3671RA	63B3681RA	PVC25	1.587
75S	75.5	62.0	59.0	72.1	0.0	1.0	89.0	101.6	98.0	75SB3671RA	75SB3681RA	PVC28	2.229
75	75.5	68.0	66.7	78.5	0.0	1.0	99.0	111.1	111.0	75B3671RA	75B3681RA	PVC30	2.534
90	90.5	80.0	76.2	90.4	0.0	1.6	114.0	128.6	136.0	90B3671RA	90B3681RA	PVC32	4.204
All dimensions in millimetres													

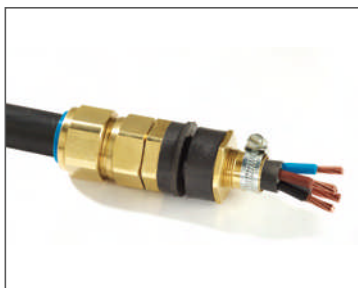
All dimensions in millimetres

Note: *LSF Shrouds also available on request. †Alternative armour clamping range available for non-standard armour sizes. Marine approvals including Lloyds, DNV & ABS are also available from CMP Products.

B327 ZEN CABLE GLAND



B350 ZEN CABLE GLAND



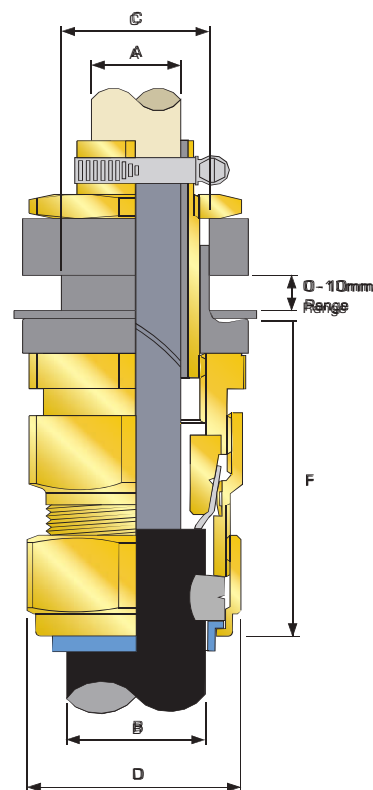
B327 & B350 ZEN Insulated Cable Gland

Cable gland for use with all types of cable providing an IP66 environmental seal onto the cable outer sheath. The cable gland being suitable for armoured cables, provides mechanical retention and electrical continuity via armour wire termination. The type B327 comes complete with CMP unique Cast Integral Earth Lug (CIEL) concept. This is particularly suitable for H.V. systems where a high level of protection against fault currents is required. This glanding concept effectively insulates the gland and cable armour from the equipment and eliminates system circulating currents. It is usual to install the type B327 at the supply end of the cable and the type B350 at the load end. This gland differs from the B324 type in that this gland also provides termination facilities for the cable copper tape screening.

TECHNICAL DATA

Type	B327 / B350
Design Specification	BS 6121:Part 1:1989, GDCD 190, EN 50262:1999
EN 50262 Mechanical Classifications	Retention = Class B, Impact = Level 8,
EN 50262 Electrical Classifications	Category A without use of an Earth Tag, Category B with an Earth Tag & Category C with CIEL.
GOST R Certificate Number	POCC GB. ГБ05.H00110
GOST K Certificate Number	KZ7500052.05.01.00063
RoK Permit for Use Number	08-067693
Continuous Operating Temperature	-60°C to +150°C
Ingress Protection Rating	IP66
Standard Gland Material	Brass
Alternative Gland Material	Electroless Nickel Plated Brass, Aluminium
Seal Material	CMP Formulated Thermoplastic Elastomer
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
Optional Accessories	Shroud, Earth Tag (B350 & A350 only)

Please refer to catalogue page 102 for dimensional details of the CIEL feature included in the B327 and A327 designs



B350 Illustrated

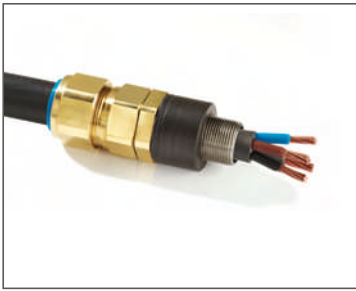
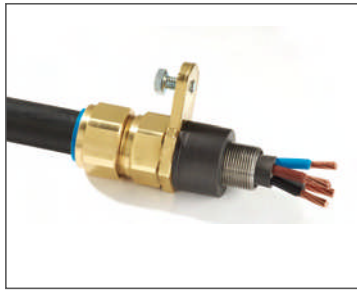
Aluminium version available for AWA cables. When ordering Please substitute letter B in B327 & B350 with letter A.

Cable Gland Selection Table

Cable Gland Size	Clearance Hole Diameter 'C'	Cable Bedding Diameter 'A'		Overall Cable Diameter 'B'		Armour Range †		Nominal Across Flats 'D'	Nominal Across Corners 'D'	Nominal Protrusion Length 'F'	Ordering Reference Brass With CIEL LUG (B327)	Ordering Reference Brass Without CIEL LUG (B350)	PVC Shroud Reference*	B327 Cable Gland Weight (Kgs)
		Max	Min	Max	Min	Max	Min	Max	Max					
20S	20.5	11.7	9.5	15.9	0.9	1.25		24.0	26.6	58.0	20SB3271RA	20SB3501RA	PVC03	0.187
20	20.5	14.0	12.5	20.9	0.9	1.25		30.5	33.3	65.0	20B3271RA	20B3501RA	PVC06	0.235
25S	25.5	20.0	14.0	22.0	1.25	1.6		37.5	40.5	70.0	25SB3271RA	25SB3501RA	PVC09	0.334
25	25.5	20.0	18.2	26.2	1.25	1.6		37.5	40.5	70.0	25SB3271RA	25B3501RA	PVC09	0.334
32	32.5	26.3	23.7	33.9	1.6	2.0		46.0	51.0	70.0	32B3271RA	32B3501RA	PVC11	0.458
40	40.5	32.2	27.9	40.4	1.6	2.0		55.0	61.0	70.0	40B3271RA	40B3501RA	PVC15	0.689
50S	50.5	38.2	35.2	46.7	2.0	2.5		60.0	66.5	72.0	50SB3271RA	50SB3501RA	PVC18	0.863
50	50.5	44.1	40.4	53.1	2.0	2.5		70.0	78.6	86.0	50B3271RA	50B3501RA	PVC21	1.028
63S	63.5	50.0	45.6	59.4	2.0	2.5		75.0	83.2	86.0	63SB3271RA	63S3501RA	PVC23	1.589
63	63.5	56.0	54.6	65.9	2.0	2.5		80.0	89.0	96.0	63B3271RA	63B3501RA	PVC25	1.587
75S	75.5	62.0	59.0	72.1	2.0	2.5		89.0	101.6	98.0	75SB3271RA	75SB3501RA	PVC28	2.229
75	75.5	68.0	66.7	78.5	2.0	2.5		99.0	111.1	111.0	75B3271RA	75B3501RA	PVC30	2.534
90	90.5	80.0	76.2	90.4	3.15	3.15		114.0	128.6	136.0	90B3271RA	90B3501RA	PVC32	4.204

All dimensions in millimetres

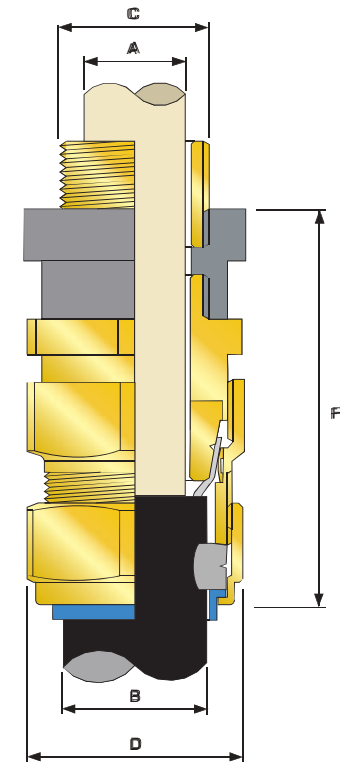
Note: *LSF Shrouds also available on request. †Alternative armour clamping range available for non-standard armour sizes. Marine approvals including Lloyds, DNV & ABS are also available from CMP Products.

B323 ZEN CABLE GLAND**B347 ZEN CABLE GLAND****B323 & B347 ZEN Insulated Cable Gland**

Cable gland for use with all types of SWA cable providing an IP66 environmental seal onto the cable outer sheath. The cable gland being suitable for armoured cables, provides mechanical retention and electrical continuity via armour termination. The type B323 comes complete with CMP unique Cast Integral Earth Lug (CIEL) concept. This is particular suitable for H.V. systems where a high level of protection against fault currents is required. This glanding concept effectively insulates the gland and cable armour from the equipment and eliminates system circulating currents. It is usual to install the type B323 at the supply end of the cable and the type B347 at the load end. This type of insulated gland is designed for use with threaded enclosures rather than clearance or through holes.

TECHNICAL DATA

Type	B323 / B347
Design Specification	BS 6121:Part 1:1989, GDCD 190, EN 50262:1999
EN 50262 Mechanical Classifications	Retention = Class B, Impact = Level 8,
EN 50262 Electrical Classifications	Category A without use of an Earth Tag, Category B with an Earth Tag & Category C with CIEL.
GOST R Certificate Number	POCC GB, ГЕ05.Н00097
GOST K Certificate Number	KZ7500052.05.01.00063
RoK Permit for Use Number	08-067693
Continuous Operating Temperature	-60°C to +150°C
Ingress Protection Rating	IP66
Standard Gland Material	Brass
Alternative Gland Material	Electroless Nickel Plated Brass, Aluminium
Seal Material	CMP Formulated Thermoplastic Elastomer
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
Optional Accessories	Shroud, Earth Tag (B323 & A323 only)

**B323 Illustrated**

Aluminium version available for AWA cables.
When ordering Please substitute letter B in B323 & B347 with letter A.

Please refer to catalogue page 102 for dimensional details of the CIEL feature included in the B323 and A323 designs

Cable Gland Selection Table

Cable Gland Size	Entry Thread 'C'	Cable Bedding Diameter 'A'	Overall Cable Diameter 'B'		Armour Range †		Nominal Across Flats 'D'	Nominal Across Corners 'D'	Nominal Protrusion Length 'F'	Ordering Reference Brass Without CIEL LUG (B323)	Ordering Reference Brass With CIEL LUG (B347)	PVC Shroud Reference*	B323 Cable Gland Weight (Kgs)
		Max	Min	Max	Min	Max	Max	Max					
20S	M20	11.6	9.5	15.9	0.9	1.25	24.0	26.6	73.0	20SB3231RA	20SB3471RA	PVC04	0.153
20	M20	13.9	12.5	20.9	0.9	1.25	30.5	33.3	80.0	20B3231RA	20B3471RA	PVC06	0.219
25S	M25	19.9	14.0	22.0	1.25	1.6	37.5	40.5	85.0	25SB3231RA	25SB3471RA	PVC09	0.295
25	M25	19.9	18.2	26.2	1.25	1.6	37.5	40.5	85.0	25B3231RA	25B3471RA	PVC09	0.295
All dimensions in millimetres													

Note: *LSF Shrouds also available on request. †Alternative armour clamping range available for non-standard armour sizes. Marine approvals including Lloyds, DNV & ABS are also available from CMP Products.