

# Hazardous Area Cable Glands

A-Belco Hazardous Area is a specialist manufacturer of hazardous area products for the oil, gas, petrochemical, pharmaceutical and marine industries worldwide. A division of the A-Belco Group, A-Belco Hazardous Area is an independent UK based manufacturer providing standard and bespoke offerings in the design and assembly of products for Zone Classification Areas 1, 2, 21 & 22, Gas and Dust.

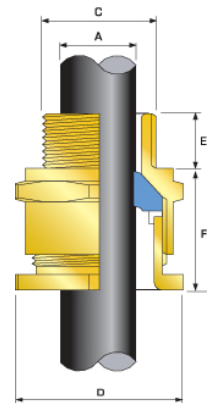
The portfolio of products includes Junction Boxes, Control Panels, Control Stations, Lighting, Receptacles, Switches, Circuit Breakers, Cable Glands - all within Ex d, Ex e, Ex ia, Ex nA and Ex nR protection concepts. All products are built in conformance with the ATEX Directive to ensure complete safety. The equipment is independently certified by SIRA, CESI, GOST-R, GOST-K and AUS.

A-Belco Hazardous Area excel in quality, price, delivery and after sales support; with over 25 years experience in the hazardous area sector, we can provide a complete and bespoke first class engineered solution from design to manufacture.

## A2F Cable Gland

### Type A2F Tri-Star Flameproof Ex d, Increased Safety Ex e and Restricted Breathing Ex nR Cable Gland

CMP Type A2F Tri-Star Triple Certified Flameproof (Type "d"), Increased Safety (Type "e") and Restricted Breathing (Type "nR") indoor and outdoor cable gland for use in Zone 1, 2, 21 & 22 Hazardous Areas with un-armoured and braided cable providing a combined flameproof seal and environmental seal on the cable outer sheath. This product provides full compatibility with restricted breathing equipment.



### A2F Cable Gland Selection

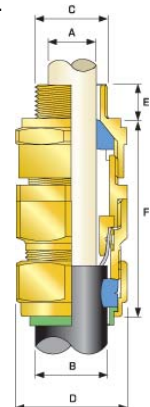
Cable Gland Size	Available Entry Threads "C"				Minimum Thread Length "E"	Overall Cable Diameter "A"		Across Flats "D"	Across Corners "D"	Nominal Protusion Length "F"	Ordering Ref. (Brass Metric) #	PVC Shroud Reference *	Weight (Kgs)
	Standard		Option			Min	Max	Max	Max				
	Metric	NPT	NPT	NPT									
A2F	20S	M20	½"	¾"	15.0	6.1	11.7	24.0	26.6	21.0	20SA2F1RA	PVC04	0.054
	20	M20	½"	¾"	15.0	6.5	14.0	27.0	31.0	24.0	20A2F1RA	PVC05	0.059
	25	M25	¾"	1"	15.0	11.1	20.0	36.0	39.0	26.0	25A2F1RA	PVC09	0.112

Note: \*LSF Shrouds also available on request. Marine approvals including Lloyds, DNV, & ABS are also available. # Other thread forms are available.

## E1FW Cable Gland

### Type E1FW Tri-Star Flameproof Ex d, Increased Safety Ex e and Restricted Breathing Ex nR Cable Gland

CMP Type E1FW Tri-Star Triple Certified Flameproof (Type "d"), Increased Safety (Type "e") and Restricted Breathing (Type "nR") cable gland for use in Zone 1, 2, 21 & 22 Hazardous Areas with Single Wire Armour (SWA) cable. This cable gland provides a flameproof seal on the cable inner bedding and in addition the gas tight seal has been tested to prove compatibility with Restricted Breathing equipment. The cable gland allows mechanical cable retention and earth continuity via the cable armour termination.



Separate tightening actions for the inner displacement seal and the armour termination afford maximum control over the pressure applied to the cable bedding, and also allows the effectiveness of the gas tight seal to be tested. A detachable armour cone and AnyWay clamping ring arrangement facilitates remote make off and enables the cable to be disconnected from the equipment. An environmental / load retention seal is provided on the cable outer sheath.

### E1FW Cable Gland Selection

Cable Gland Size	Available Entry Threads "C"				Minimum Thread Length "E"	Cable Bedding Diameter "A"		Overall Cable Diameter "B"		Armour Range †		Across Flats "D"	Across Corners "D"	Nominal Protusion Length "F"	Ordering Reference (Brass Metric) #	PVC Shroud Reference *	Weight (Kgs)
	Standard		Option			Min	Max	Min	Max	Min	Max	Max	Max				
	Metric	NPT	NPT 2	NPT													
E1FW	20S	M20	½"	¾"	15.0	6.1	11.7	9.5	15.9	0.90	1.25	24.0	26.6	58.5	20SE1FW1RA	PVC04	0.157
	20	M20	½"	¾"	15.0	6.5	14.0	12.5	20.9	0.90	1.25	30.5	33.3	60.5	20E1FW1RA	PVC06	0.206
	25	M25	¾"	1"	15.0	11.1	20.0	18.2	26.2	1.25	1.60	37.5	40.5	67.5	25E1FW1RA	PVC09	0.325

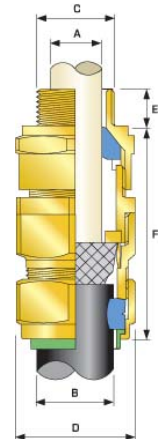
Note: \*LSF Shrouds also available on request. † Alternative armour clamping range available for non-standard armour sizes. Marine approvals including Lloyds, DNV, & ABS are also available. # Other thread forms are available.

## Hazardous Area Cable Glands

### E1FX Cable Gland

**Type E1FX Tri-Star Flameproof Ex d, Increased Safety Ex e and Restricted Breathing Ex nR Cable Gland**

CMP Type E1FX Tri-Star Triple Certified Flameproof (Type "d"), Increased Safety (Type "e") and Restricted Breathing (Type "nR") indoor and outdoor cable gland for use in Zone 1, 2, 21 & 22 Hazardous Areas with Braided, Pliable Wire Armour (PWA), Strip Armour and Steel Tape Armour (STA) cable. This cable gland provides a Flameproof seal on the cable inner bedding and in addition the gas tight seal has been tested to prove compatibility with Restricted Breathing equipment. The cable gland allows mechanical cable retention and earth continuity via the cable armour termination.



Separate tightening actions for the inner displacement seal and the armour termination afford maximum control over the pressure applied to cable bedding, and also allows the effectiveness of the gas tight seal to be tested. A detachable armour cone and AnyWay clamping ring arrangement facilitates remote make off and enables the cable to be disconnected from the equipment. An environmental / load retention seal is provided on the cable outer sheath.

### E1FX Cable Gland Selection

Cable Gland Size	Available Entry Threads "C"				Minimum Thread Length "E"	Cable Bedding Diameter "A"		Overall Cable Diameter "B"		Armour Range †		Across Flats "D"	Across Corners "D"	Nominal Protrusion Length "F"	Ordering Reference (Brass Metric) #	PVC Shroud Reference #	Weight (Kgs)
	Standard		Option			Min	Max	Min	Max	Min	Max	Max	Max				
	Metric	NPT	NPT	NPT													
E1FX	20S	M20	½"	¾"	15.0	6.1	11.7	9.5	15.9	0.0	1.0	24.0	26.6	58.5	20SE1FX1RA	PVC04	0.158
	20	M20	½"	¾"	15.0	6.5	14.0	12.5	20.9	0.0	1.0	30.5	33.3	60.5	20E1FX1RA	PVC06	0.208
	25	M25	¾"	1"	15.0	11.1	20.0	18.2	26.2	0.0	1.0	37.5	40.5	67.5	25E1FX1RA	PVC09	0.330

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. # Other thread forms are available.

### Cable Gland Price List

Description	Price
20S A2F Brass Gland	£2.00
20 A2F Brass Gland	£2.40
25 A2F Brass Gland	£3.81
20S E1FW Brass Gland	£4.04
20 E1FW Brass Gland	£4.39
25 E1FW Brass Gland	£6.40
20S E1FX Brass Gland	£4.04
20 E1FX Brass Gland	£4.39
25 E1FX Brass Gland	£6.63

Rev 2. 08\_10\_08 E. & E. O

All Dimensions in mm

### Other Hazardous Area products within the range



• Lighting • Control Stations • Circuit Breakers • Cable Glands • Junction Boxes • Switches

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