



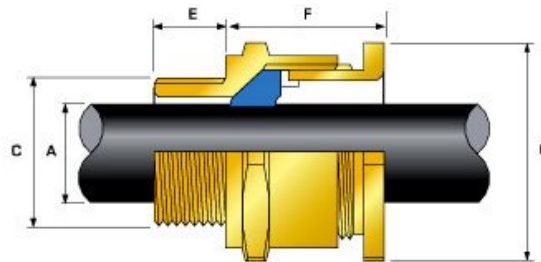
Brass

A2F Cable Gland, Flameproof Ex d, Increased Safety Ex e and Restricted Breathing Ex nR Cable Gland

CMP Type A2F Triple Certified Flameproof (Type 'd'), Increased Safety (Type 'e') and Restricted Breathing (Type 'nR') indoor and outdoor cable gland for use in Zone 1, Zone 2, Zone 21 and Zone 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 that rely upon flammable gases being excluded from the main enclosure.

All CMP Cable Glands are EMC Tested.

The CMP A2F Tri-Star Cable Gland is suitable for use with all forms of equipment protection permitted in Zone 1, Zone 2, Zone 21 & Zone 22 provided always that the prevailing code of practice for selection, installation and maintenance is observed, e.g. IEC 60079-14.



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Cable Gland Selection Table

Cable Gland Size	Available Entry Threads "C"			Minimum Thread Length "E"	Overall Cable Diameter "A"		Across Flats "D"	Across Corners "D"	Nominal Protrusion Length "F"	Ordering Reference (Brass Metric)#	PVC Shroud Ref *	Cable Gland Weight (Kgs)
	Standard		Option		Min	Max						
	Metric	NPT	NPT				Max	Max				
16	M16	1/2"	3/4"	15.0	3.2	8.7	22.0	23.8	18.0	16A2F1RA	PVC02	0.051
20S/16	M20	1/2"	3/4"	15.0	3.2	8.7	24.0	25.9	21.0	20S16A2F1RA	PVC04	0.054
20S	M20	1/2"	3/4"	15.0	6.1	11.7	24.0	25.9	21.0	20SA2F1RA	PVC04	0.054
20	M20	1/2"	3/4"	15.0	6.5	14.0	27.0	29.2	24.0	20A2F1RA	PVC05	0.059
25	M25	3/4"	1"	15.0	11.1	20.0	36.0	38.9	26.0	25A2F1RA	PVC09	0.112
32	M32	1"	1 1/4"	15.0	17.0	26.3	41.0	44.3	27.0	32A2F1RA	PVC10	0.128
40	M40	1 1/4"	1 1/2"	15.0	23.5	32.2	50.0	54.0	28.0	40A2F1RA	PVC13	0.168
50S	M50	1 1/2"	2"	15.0	31.0	38.2	55.0	59.4	29.0	50SA2F1RA	PVC14	0.224
50	M50	2"	2 1/2"	15.0	35.6	44.1	60.0	64.8	30.0	50A2F1RA	PVC17	0.231
63S	M63	2"	2 1/2"	15.0	41.5	50.0	70.0	75.6	30.0	63SA2F1RA	PVC20	0.360
63	M63	2 1/2"	3"	15.0	47.2	56.0	75.0	81.0	30.0	63A2F1RA	PVC22	0.344
75S	M75	2 1/2"	3"	15.0	54.0	62.0	79.0	85.3	32.0	75SA2F1RA	PVC24	0.466
75	M75	3"	3 1/2"	15.0	61.1	68.0	84.0	90.7	32.0	75A2F1RA	PVC26	0.395
90	M90	3"	3 1/2"	15.0	66.6	80.0	108.0	116.6	44.0	90A2F1RA	PVC31	1.346
100	M100	4"	-	15.0	76.0	91.0	122.0	131.8	48.0	100A2F1RA	PVC32	1.575
115	M115	-	-	15.0	86.0	98.0	138.0	149.0	55.0	115A2F1RA	LSF34	2.322
130	M130	-	-	15.0	97.0	115.0	154.0	166.3	62.0	130A2F1RA	LSF35	3.400

All dimensions in millimeters

Note: CMP SOLO LSF Halogen Free Shrouds also available on request. IEC Ex, ATEX (Group I and II) & CSA hazardous area certification marking included as standard. Please consult CMP for any other requirement.

Cable Gland Size	Available Entry Threads "C"			Minimum Thread Length "E"	Overall Cable Diameter "A"		Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Ordering Reference (Brass Metric) #	PVC Shroud Ref *	Cable Gland Weight (Ozs)
	Standard		Option		Min	Max						
	Metric	NPT	NPT				Max	Max				
16	M16	1/2"	3/4"	0.591	0.126	0.343	0.866	0.937	0.709	16A2F1RA	PVC02	1.80
20S/16	M20	1/2"	3/4"	0.591	0.126	0.343	0.945	1.020	0.827	20S16A2F1RA	PVC04	1.90
20S	M20	1/2"	3/4"	0.591	0.240	0.461	0.945	1.020	0.827	20SA2F1RA	PVC04	1.90
20	M20	1/2"	3/4"	0.591	0.256	0.551	1.063	1.150	0.945	20A2F1RA	PVC05	2.08
25	M25	3/4"	1"	0.591	0.437	0.787	1.417	1.531	1.024	25A2F1RA	PVC09	3.95
32	M32	1"	1 1/4"	0.591	0.669	1.035	1.614	1.744	1.063	32A2F1RA	PVC10	4.52
40	M40	1 1/4"	1 1/2"	0.591	0.925	1.268	1.969	2.126	1.102	40A2F1RA	PVC13	5.93
50S	M50	1 1/2"	2"	0.591	1.220	1.504	2.165	2.339	1.142	50SA2F1RA	PVC14	7.90
50	M50	2"	2 1/2"	0.591	1.402	1.736	2.362	2.551	1.181	50A2F1RA	PVC17	8.15
63S	M63	2"	2 1/2"	0.591	1.634	1.969	2.756	2.976	1.181	63SA2F1RA	PVC20	12.70
63	M63	2 1/2"	3"	0.591	1.858	2.205	2.953	3.189	1.181	63A2F1RA	PVC22	12.13
75S	M75	2 1/2"	3"	0.591	2.126	2.441	3.110	3.358	1.260	75SA2F1RA	PVC24	16.44
75	M75	3"	3 1/2"	0.591	2.406	2.677	3.307	3.571	1.260	75A2F1RA	PVC26	13.93
90	M90	3"	3 1/2"	0.591	2.622	3.150	4.252	4.591	1.732	90A2F1RA	PVC31	47.48
100	M100	4"	-	0.591	2.992	3.583	4.803	5.189	1.890	100A2F1RA	LSF34	55.56
115	M115	-	-	0.591	3.386	3.588	5.433	5.866	2.165	115A2F1RA	LSF32	81.91
130	M130	-	-	0.591	3.819	4.528	6.063	6.547	2.441	130A2F1RA	LSF35	119.93

Dimensions are displayed in Inches




Note: CMP SOLO LSF Halogen Free Shrouds also available on request. IEC Ex, ATEX (Group I and II) & CSA hazardous area certification marking included as standard. Please consult CMP for any other requirement.



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TECHNICAL DATA

CSA Approval Certificate No.	1211841
CSA Code of Protection Category	Class 4418 05; Class I, Zone I, Class II, Div 2, Groups E,F,&G, Enclosure Type 3,4,&4X; Class III; Ex d IIC, Ex e II
CSA Compliance Standards	CSA Standard C22.2 No 0. M1991, CSA Standard C22.2 No. 0.4-04, CSA Standard C22.2 No. 94-M91, CSA Standard C22.2 No. 174-M1984, CAN/CSA-E60079-0:07, CAN/CSA-E60079-1:07, CAN/CSA-E60079-7:01
GOST R Certificate Number	POCC GB.HO06.B00207
GOST R Code of Protection Category	Ex d IIC / Ex e II / DIP A21
GOST R Compliance Standards	ГОСТ P 52350.0-2005, ГОСТ P 52350.1-2005, ГОСТ P 52350.7-2005, ГОСТ МЭК 61241-1-1-99
GOST GGTN Permit	PPC 00-40706
GOST K Certificate Number	KZ 75000361 01 01 14761
RoK Permit For Use Number	19-02-UL-1957
Lloyds Approval No.	01/00172
DNV Approval No.	E-10496
ABS Approval No.	01-LD234401A/2-PDA
INMETRO Approval Certificate Number.	MC-AEX-7619-X
INMETRO Code of Protection Category	BR-Ex d IIC / BR-Ex e II
INMETRO Compliance Standards	IEC 60079-0/00, IEC 60079-1/01, IEC 60079-7/01, NBE IEC 60529/05
NEPSI Certificate Number	GYJ081070
NEPSI Code of Protection Category	Ex d IIC, Ex e II, Ex nR II, DIP A21 TA
NEPSI Compliance Standards	GB3836.1/2/3-2000, GB3836.8-2003, GB12476.1-2000
RETIE Approval Number	03866
Type	A2F
Design Specification	BS 6121:Part 1:1989 , EN 50262:1999
ATEX Certification Detail	SIRA 06ATEX1097X , SIRA07ATEX4326X
ATEX Code of Protection Category	ATEX  II 2 GD, Ex d IIC, Ex e II, Ex tD A21 IP66, ATEX  II 3 G Ex nR II, ATEX  IM2, Ex d I, Ex e I
ATEX Compliance Standards	EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-15, IEC 61241-0, EN 61241-1
IEC Ex Certification Detail	IECEX SIR 06.0039X
IEC Ex Code of Protection Category	Ex d IIC, Ex e II, Ex nR II, Ex tD A21 IP66, Ex d I, Ex e I
IEC Ex Compliance Standards	IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-15, IEC 61241-0, IEC 61241-1
Continuous Operating Temperature	-60°C to +130°C
Ingress Protection Rating	IP66, IP67, IP68
Ingress Protection Document	5046 C549-D
Deluge Protection Compliance	DTS01 : 91
Deluge Protection Document	5046 C549-D
Cable Gland Material	Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium
Seal Material	CMP SOLO LSF Thermoplastic Elastomer
Cable Type	Unarmored & Braided
Sealing Technique	CMP Unique Displacement Seal Concept
Sealing Area(s)	Cable Outer Sheath
Accessories	Adaptor/Reducer , Earth Tag , Locknut , Serrated Washer , Entry Thread Seal , Shroud

