



REFERENCE NUMBER: 7.4.0

EXAMPLE PART NUMBERING:
ARMR1BF/NP/M20/M20

ARMR	90 Degree Adaptor Male/Female (Right Angled)
OR	
ARFR	90 Degree Adaptor Female/Female (Right Angled)
1	No IP O-ring (0) - Nitrile (1) - Silicone (3) (Only available on ARMR)
B	Brass (B) - Stainless Steel (S) - Aluminium (A)
E	Ex d & Ex e certification including Marine Approvals
NP	Nickel Plated
M20	Male Entry Thread
M20	Female Entry Thread

IP RATING:	IP66 & IP68 (100 metres for 7 days) & NEMA 4X
OPERATING TEMPERATURE:	O-ring - None -100°C to +400°C
	O-ring - Nitrile -30°C to +100°C
	O-ring - Silicone -60°C to +200°C
MATERIALS:	Brass, Stainless Steel or Aluminium
PLATING:	Electroless Nickel

ALSO AVAILABLE IN 30 DEGREE AND 45 DEGREE CONFIGURATIONS

CABLE GLAND SELECTION TABLE
(ALL DIMENSIONS IN mm)

Size	Bore	Height	Length	Width
M16 x M16	10.0	38.1	27.0	25.4
M20 x M20	14.0	38.1	27.0	25.4
M25 x M25	18.0	44.5	37.0	31.8
M32 x M32	24.0	50.8	45.0	38.1
M40 x M40	32.0	63.5	52.0	50.8
M50 x M50	41.0	72.0	67.0	60.0
M63 x M63	53.0	90.0	83.0	75.0
M75 x M75	64.0	102.0	94.0	88.0

PART NUMBERS:

AR	MR	1	B	F
	FR	3	S	
			A	



PRODUCT DESCRIPTION

“ARMR” & “ARFR” Series Dual Certified Right Angled Adaptors are designed to protect cables when installed in confined spaces where the cable may otherwise be subject to excessive bending and / or stress. The series is available with Male/Female or Female/Female connection threads. They are approved for Ex d, Ex e, Ex ta and Ex nR methods of explosion protection whilst maintaining IP66, IP68 for IEC type applications and Class I Division 1, and NEMA 4X for NEC/CEC type applications. All external parallel threads are fitted with a nitrile O-ring as standard.

COMPLIANCE STANDARDS:

EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-15, EN 60079-31
IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-15, IEC 60079-31 & 60529
C22.2 (see certificate), UL514B, UL1203, ANSI/UL 60079-0/1/7, ISA 60079-31, UL 50E

CERTIFICATION:

ATEX	I M2 II 2GD Exd I Mb / Ex d IIC Gb / Exe I Mb / Exe IIC Gb / Ex ta IIIC Da II 3G Ex nR IIC Gc
IECEX	Ex d I Mb / Ex d IIC Gb / Exe I Mb / Exe IIC Gb / Ex ta IIIC Da / Ex nR IIC Gc
CEC - Canada	Class I Zone 1 Ex d IIC / Ex e IIC / Class II Zone 21 Ex tb IIIC Class I Division 1, Groups A, B, C & D Class II Division 1, Groups E, F & G Class III, Enclosure Type 4X
NEC - USA	Class I Zone 1 AEx d IIC Gb / AEx e IIC Gb / Class II Zone 21 AEx tb IIIC Db Class I Division 1, Groups A, B, C & D Class II Division 1, Groups E, F & G Class III, Enclosure Type 4X
EAC	Exd IU / Exd IICU / Exe IU / Exe IICU / ExnR IUU
INMETRO - Brazil	Ex d I Mb / Ex d IIC Gb / Exe I Mb / Exe IIC Gb / Ex ta IIIC Da / Ex nR IIC Gc
SAC - China	Ex d IIC / Ex e IIC
UKRAINE	Exd IU / Exd IICU / Exe IU / Exe IIC
CCoE - India	Ex d IIC Gb / Ex e IIC Gc
ABS	Specified ABS Rules
LLOYD'S	Enclosure Systems (Part 1B)
RMRS	Part XI of Rules for sea-going ships (ed.2014)

CERTIFICATION No:

ATEX	SIRA 10ATEX1132U & SIRA 10ATEX4133U
IECEX	IECEX SIR 10.0068U
CEC - Canada	CSA 2310046
NEC - USA	CSA 2310046
EAC	RU C-GB.Г506.В.00098
INMETRO - Brazil	NCC 13.2190 U
SAC - China	NEPSI GYJ16.1405X
UKRAINE	UA.TR.047.C.0408-13 & 2937
CCoE - India	PESO P365300/11
ABS	14-LD1183401-PDA
LLOYD'S	10/00056(E1)
RMRS	14.02755.315

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NOTES

- Differing threads and thread forms are available upon request.
- 90 Degree Adaptors are approved and available up to size M100.
- Aluminium versions are not suitable for Group I Mining application.
- When used in an Ex nR application ARMR & ARFR adaptors must be fitted with an appropriate seal.