



REFERENCE NUMBER: 71.1

EXAMPLE PART NUMBERING:
ARMM1BF/NP/M20/M25

ARM or ARFF	ARMM = Male x Male - ARFF = Female x Female
1	No IP O-ring (0) - Nitrile (1) - Silicone (3)
B	Brass (B) - Stainless Steel (S) - Aluminium (A)
F	Ex d & Ex e certification including Marine Approvals
NP	Nickel Plated
M20	Male or Female Entry Thread
M25	Male or Female Entry Thread

ARFF part numbers will always contain the "0" as this product cannot be fitted with O-rings. For ARMM always quote the smallest thread first so the product is an Adaptor not Reducer. Accessories are available for ARMM series.

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

Male and Female Thread References and Size information can be found on page 40 of this product catalogue. Adaptor and Reducer size information is available on pages 41 + 42 of our product catalogue. Male and female threads are manufactured in accordance with:-

- ISO Metric threads to ISO 965-1, ISO 965-3, BS3643 and IEC 60423
- NPT and NPS threads are in accordance to ANSI B1.20.1
- PG threads to DIN40430
- ET threads to Imperial Conduit BS31
- ISO Pipe Parallel to ISO 228 and BS2779 (BSPP, G, R, PF & Tpy 6)
- ISO Pipe Taper to ISO 7-1 and BS21 (BSPT, Gc, Gk, Rk, PT & Kmpy 6)

NOTES

- Assembly instructions must be read prior to installation and adhered to in full.
- For Ex d applications female threads must comply with clause 5.3 of IEC 60079-1.
- For Ex nR applications parallel entry threads must be installed with a suitable entry thread seal.
- ATEX / IECEx versions are supplied as standard.
- Additional approvals must be requested at time of order.
- Where applicable, the standard O-ring material is nitrile. Other options are available upon request.
- Aluminium versions are not suitable for Group I Mining applications.

PART NUMBERS:

A	R	MM	0	B	F
			FF	1	S
				3	A



PRODUCT DESCRIPTION

"ARMM & ARFF" Series Certified Adaptors provide a method of matching electrical thread forms on Ex equipment whilst maintaining Ex d, Ex e, Ex tb and Ex nR methods of explosion protection. Approved for use in mining (except Aluminium) and surface installations, they maintain IP66 & IP68 for IEC type applications and Class I Division 1 and NEMA 4X for CEC type applications. All external metric 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 No:	ATEX	I M2 II 2GD Exd I Mb / Ex d IIC Gb / Exe I Mb / Ex e IIC Gb / Ex ta IIIC Da II 3G Ex nR IIC Gc
	IECEX	Ex d I Mb / Ex d IIC Gb / Exe I Mb / Ex e IIC Gb / Ex ta IIIC Da / Ex nR IIC Gc
CEC - Canada		Class I Division 1, Groups A, B, C & D Class II Division 1, Groups E, F & G Class III, Enclosure Type 4X Class I Zone 1 Ex d IIC / Ex e IIC Class II Zone 21 Ex tb IIIC
	NEC - USA	Class I Division 1, Groups A, B, C & D Class II Division 1, Groups E, F & G Class III, Enclosure Type 4X Class I Zone 1 AEx d IIC Gb / AEx e IIC Gb Class II Zone 21 AEx tb IIIC Db
	EAC	Ex d I Mb U / Ex d IIC Gb U / Ex e I Mb U / Ex e II Gb U / Ex nR II Gc U Ex ta IIIC Da / Ex tb IIIC Db / Ex tc IIIC Dc
	INMETRO - Brazil	Ex d I Mb / Ex d IIC Gb / Exe I Mb / Ex e IIC Gb / Ex tb IIIC Db / Ex nR IIC Gc
SAC - China		Ex d IIC Gb / Ex e IIC Gb
UKRAINE		Ex d IU / Ex d IICU / Ex e IU / Ex e IICU
CCoE - India		Ex d IIC Gb / Ex e IIC Gb
ABS		Specified ABS Rules
LLOYD'S		Ex d I Mb / Ex d IIC Gb / Ex e I Mb / Ex e IIC Gb / Ex tb IIIC Db / Ex nR IIC Gc
RMRS		Ex d IC / Ex d IIC / Ex e IC / Ex e IIC / Ex tb IIIC
CERTIFICATION No:	ATEX	SIRA 09ATEX1322X & SIRA 09ATEX4323X
	IECEX	IECEX SIR 09.0131X
	CEC - Canada	CSA 2310046
	NEC - USA	CSA 2310046
	EAC	TC RU C-GB.BH02.B.00693-18
	INMETRO - Brazil	NCC 13.2189 X
	SAC - China	NEPSI GYJ16.1404X
	UKRAINE	UA.TR.047.C.0408-13 & 2937
	CCoE - India	PESO P365300/9 & P365300/12
	ABS	14-LD1183401-PDA
LLOYD'S	10/00056(E1)	
RMRS	14.02755.315	

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