



# PRODUCT TYPE ARMM & ARFF

## Metallic Adaptors

Ex db : Ex eb : Ex nR : Ex ta : IP66 : IP68 : Class I Div 1 : AEx d : AEx e : AEx tb

### PART NUMBERS:

A	R	MM	O	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 db, Ex eb, Ex ta 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

EXAMPLE PART NUMBERING:  
ARMMBF/NP/M20/M25

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

ARFF part numbers will always contain the "O" 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

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

CERTIFICATION:

<b>ATEX</b>	I M2 II D 2G Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb / Ex ta IIIC Da II 3G Ex nR IIC Gc
<b>IECEX</b>	Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb / Ex ta IIIC Da
<b>CEC - Canada</b>	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
<b>NEC - USA</b>	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
<b>EAC</b>	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
<b>INMETRO - Brazil</b>	Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb / Ex ta IIIC Da
<b>SAC - China</b>	Ex d IIC Gb / Ex e IIC Gb
<b>UKRAINE</b>	I M2 Ex db I Mb / Ex eb I Mb / II 2GD Ex db IIC Gb / Ex eb IIC Gb / Ex tb IIIC Db II 3G Ex nR IIC Gc
<b>CCoE - India</b>	Ex d IIC Gb / Ex e IIC Gc
<b>ABS</b>	Specified ABS Rules
<b>LLOYD'S</b>	Ex d I Mb / Ex d IIC Gb / Ex e I Mb / Ex e IIC Gb / Ex tb IIIC Db / Ex nR IIC Gc
<b>RMRS</b>	Ex d IC / Ex d IIC / Ex e IC / Ex e IIC / Ex tb IIIC

CERTIFICATION No:

<b>ATEX</b>	CML 19ATEX1090X & CML 19ATEX4092X
<b>IECEX</b>	IECEX CML19.0022X
<b>CEC - Canada</b>	CSA 2310046
<b>NEC - USA</b>	CSA 2310046
<b>EAC</b>	RU C-GB.BH02.B.00693/18
<b>INMETRO - Brazil</b>	NCC 13.2189 X
<b>SAC - China</b>	NEPSI GYJ16.1404X
<b>UKRAINE</b>	CLJ 18.0319 X
<b>CCoE - India</b>	PESO P365300/9 & P365300/12
<b>ABS</b>	14-LD1183401-PDA
<b>LLOYD'S</b>	10/00056(E1)
<b>RMRS</b>	14.02755.315

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.
- 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.
- Peppers supply products with parallel entry threads that conform to the flameproof threaded joint requirements of IEC/EN 60079-1 and other equivalent standards. They usually incorporate a thread run out according to the available machining techniques and will not have a full form thread for the entire length. Peppers Cable Glands Limited will not be held responsible for clients' installations where this has not been taken into account.
- Where approval in addition to ATEX, IECEX and CSA is required, this must be clearly requested at time of enquiry / order.