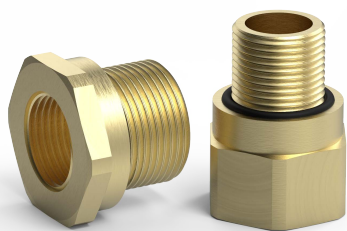




# PRODUCT TYPE AR

## Metallic Adaptors and Reducers

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



REFERENCE NUMBER: 71.0

EXAMPLE PART NUMBERING:  
AR1BF/NP/M20/M25

<b>AR</b>	Thread converting Adaptor/Reducer
<b>1</b>	No IP O-ring(0) - 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 Entry Thread
<b>M25</b>	Female Entry Thread

OPTIONAL ACCESSORIES:

(*) IP Washers - (N) Nylon (ACNSW) / (V) Fibre (ACFSW) / (H) PTFE (ACPSW)
(T) Earth Tag - Brass (ACBET) / St-Steel (ACSET) / Aluminium (ACAET)
(L) Locknut - Brass (ACBLN) / St-Steel (ACSLN) / Aluminium (ACALN)
(S) Serrated Washer - Stainless Steel (ACSSW)

<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)

### PART NUMBERS:

A	R	1	B	F
		3	S	
				A



### PRODUCT DESCRIPTION

"AR" Series Certified Adaptors & Reducers 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 / NEC 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:

<b>ATEX</b>	I M2 II 2GD Exd I Mb / Ex d IIC Gb / Exe I Mb / Ex e IIC Gb / Ex tb IIIC Db Ex nR IIC Gc
<b>IECEX</b>	Ex d I Mb / Ex d IIC Gb / Exe I Mb / Ex e IIC Gb / Ex tb IIIC Db / Ex nR IIC Gc
<b>CEC - Canada</b>	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
<b>NEC - USA</b>	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
<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
<b>INMETRO - Brazil</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>SAC - China</b>	Ex d IIC Gb / Ex e IIC Gb
<b>UKRAINE</b>	Ex d IU / Ex d IICU / Ex e IU / Ex e IIU
<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 IIC

CERTIFICATION No:

<b>ATEX</b>	SIRA 09ATEX1322X & SIRA 09ATEX4323X
<b>IECEX</b>	IECEX SIR 09.0131X
<b>CEC - Canada</b>	CSA 2310046
<b>NEC - USA</b>	CSA 2310046
<b>EAC</b>	TC 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>	UA.TR.047.C.0408-13 & 2937
<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.
- 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.