

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

Part No's:

A	R	1	B	F
		3	S	
			A	



"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 Standard:	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:	<p>ATEX I M2 II 2GD Exd I Mb / Ex d IIC Gb / Exe I Mb / Ex e IIC Gb / Ex tb IIIC Db II 3G Ex nR IIC Gc</p> <p>IECEX Ex d I Mb / Ex d IIC Gb / Exe I Mb / Ex e IIC Gb / Ex tb IIIC Db / Ex nR IIC Gc</p> <p>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</p> <p>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</p> <p>EAC Exd IU / Exd IICU / Exe IU / Exe IIU / ExnR IIU</p> <p>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</p> <p>SAC - China Ex d IIC / Ex e IIC</p> <p>UKRAINE Exd IU / Exd IICU / Exe IU / Exe IIU</p> <p>CCoE - India Ex d IIC Gb / Ex e IIC Gc</p> <p>ABS Specified ABS Rules</p> <p>LLOYD'S Enclosure Systems (Part 1B)</p> <p>RMRS Part XI of Rules for sea-going ships (ed.2014)</p>

Certificate No.	ATEX SIRA 09ATEX1322X & SIRA 09ATEX4323X
IECEX	IECEX SIR 09.0131X
CEC - Canada	CSA 2310046
NEC - USA	CSA 2310046
EAC	RU C-GB.F506.B.00098
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

Male and Female Thread References and Size information can be found on page TR-1 of our product catalogue.

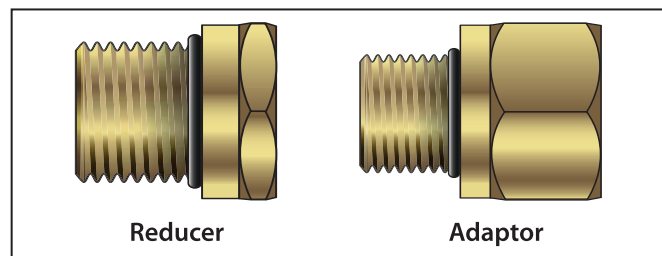
Adaptor and Reducer size information is available on pages TR-2 & TR-3 of our product catalogue.

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.



Example Part Numbering

(Always Quote Male Thread First)

AR1BF/NP/M20/M25

AR	Thread converting Adaptor/Reducer
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 Entry Thread
M25	Female Entry Thread
Optional Accessories	<p>IP Washers - (N) Nylon (ACNSW) / (V) Fibre (ACFSW) / (H) PTFE (ACPSW)</p> <p>(T) Earth Tag - Brass (ACBET) / St-Steel (ACSET) / Aluminium (ACAET)</p> <p>(L) Locknut - Brass (ACBLN) / St-Steel (ACSLN) / Aluminium (ACALN)</p> <p>(S) Serrated Washer - Stainless Steel (ACSSW)</p>

IP Rating: IP66 & IP68 (100 metres for 7 days) & NEMA 4X

Impact Resistance: 20Nm (Aluminium 7Nm)

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