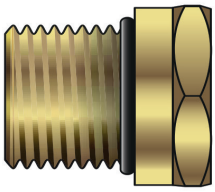
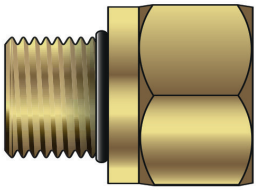
PRODUCT TYPE AR

Metallic Adaptors and Reducers

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



Reducer



Adaptor

REFERENCE NUMBER: 7.1.0

PART NUMBERS:

A	R	1	B	F
		3	S	
			A	

EXAMPLE PART NUMBERING: 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:

(*) 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)

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)

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:

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
IECEx	Ex d I Mb / Ex d IIC Gb / Exe I Mb / Ex e IIC Gb / Ex tb IIIC Db / 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 IIU / ExnR IIU
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 / Ex e IIC
UKRAINE	Exd IU / Exd IICU / Exe IU / Exe IIU
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 09ATEX1322X & SIRA 09ATEX4323X
IECEx	IECEx SIR 09.0131X
CEC - Canada	CSA 2310046
NEC - USA	CSA 2310046
EAC	RU C-GB.ГБ06.В.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

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.