

Metallic 90 Degree Rotating Adaptors and Reducers

Ex db : Ex eb : Ex nR : Ex ta : IP66 : IP68 : Class I Zone 1 AEx db : AEx eb : AEx ta



PRODUCT DESCRIPTION

"RA"90" Series Dual Certified Right Angled Rotating Adaptors are designed to protect cables when installed in confined spaces where the cable may otherwise be subject to excessive bending and / or stress 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. They are Class I Zone 1 approved for NEC and CEC type applications whilst also maintain Type 4X/6P rating. The series is available with Male/Male, Male/Female or Female/Female connection threads.

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 & IEC 60529
C22.2 (see certificate), ANSI/UL 514B, ANSI/UL 60079-0/1/7, ANSI/ISA 60079-31, UL50E

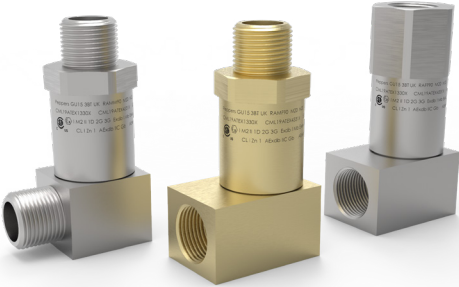
CERTIFICATION:	UKEX	I M2 II 1D 2G Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb / Ex ta IIIC Da II 3G Ex nR IIC Gc
	ATEX	I M2 II 1D 2G Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb / Ex ta IIIC Da II 3G Ex nR IIC Gc
	IECEX	Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da
	CEC - Canada	Ex db IIC Gb / Ex eb IIC Gb / Ex ta IIIC Da Type 4X / 6P
	NEC - USA	Class I Zone 1 AEx db IIC Gb / Ex eb IIC Gb Zone 20 AEx ta IIIC Da Type 4X / 6P
	EAC	PB Ex db I Mb X / 1Ex db IIC Gb X / PB Ex eb I Mb X / 1Ex eb II Gb X / 2Ex nR II Gc X Ex ta IIIC Da X
	CCC - China	Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da
	CCoE - India	Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb / Ex nR IIC Gc
	ECAS-Ex - U.A.E	Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb / Ex nR IIC Gc
	ABS	Specified ABS Rules
CERTIFICATION No:	LLOYD'S	Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da
	DNV	Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da

UKEX	CML 21UKEX1026X & CML 21UKEX4027X
ATEX	CML 19ATEX1330X & CML 19ATEX4331X
IECEX	IECEX CML 19.0101X
CEC - Canada	CSA 2310046
NEC - USA	CSA 2310046
EAC	RU C-GB.AЖ58.B.05106/24
CCC - China	2021312313000376
CCoE - India	PESO P494321/5 & P494321/14
ECAS-Ex - U.A.E	25-06-153223/E25-06-159811/NB0007
ABS	25-0158110-PDA
LLOYD'S	LR25189453TA
DNV	TAE00004XK

- NOTES
- Assembly instructions must be read prior to installation and adhered to in full.
 - For Ex db 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.
 - Only products with Metric and NPT threads are marked with CSA approval.
 - Peppers supply products with parallel entry threads that conform to the flameproof threaded joint requirements of IEC/EN 60079-1 and other equivalent standards. We usually incorporate a thread



PRODUCT TYPE RA**90



EXAMPLE PART NUMBERING:
RAMF900BF/NP/M20/M20

RA	Rotating Thread converting Adaptor/Reducer
MF90	Male / Female (MF90) - Male / Male (MM90) - Female/Female (FF90)
O	No IP O-ring
B	Brass (B) - Stainless Steel (S)
F	Multiple Certification
K-V-H	Locknut & Nylon (K) - Fibre (V) - PTFE (H) IP Washer
S	Including Serrated Washer
1	Quantity per kit
NP	Nickel Plated
M20	Male Entry Thread
M20	Female Entry Thread

OPTIONAL ACCESSORIES:

Locknut (L)	Brass (ACBLN) - St-Steel (ACSLN)
Earth Tag (T)	Brass (ACBET) - St-Steel (ACSET)
IP WASHERS	Nylon (N) / Fibre (J) / PTFE (Z)
Serrated Washer	Stainless Steel (S)

IP RATING:	IP66, IP68 (2 metres for 24 hours) & Type 4X/6P
OPERATING TEMPERATURE:	Washer - None -60°C to +135°C Washer - Fibre -40°C to +95°C Washer - Nylon -40°C to +135°C Washer - PTFE -60°C to +135°C
MATERIALS:	Brass or Stainless Steel
PLATING:	Electroless Nickel

Male and Female Thread References and Size information can be found on page 77 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)

run out according to the general 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 UKEX, ATEX, IECEx and CSA is required, this must be clearly requested at time of enquiry / order.