



# PRODUCT TYPE RA\*\*90

## Metallic 90 Degree Rotating Adaptors and Reducers

Ex db : Ex eb : Ex nR : Ex ta : IP66 : IP68



### PART NUMBERS:

RA	MF90	O	B	F
	MM90		S	
	FF90			

**New Product**



### 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. The series is available with Male/Male, Male/Female or Female/Female connection threads. They are approved for Ex db, Ex eb, Ex ta and Ex nR methods of explosion protection whilst maintaining IP66, IP68 for IEC type applications.

### 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

EXAMPLE PART NUMBERING:  
RAM900BF/NP/M20/M20

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

CERTIFICATION:

<b>ATEX</b>	I M2 II 1D 2G Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb / Ex ta IIC 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 IIC Da / Ex nR IIC Gc

CERTIFICATION No:

<b>ATEX</b>	CML 19ATEX1330X & CML 19ATEX4331X
<b>IECEx</b>	IECEx CML 19.0101X

OPTIONAL ACCESSORIES:

<b>IP Washers</b>	(N) Nylon (ACNSW) - (J) Fibre (ACFSW) - (Z) PTFE (ACPSW)
<b>Earth Tag</b>	(T) Brass (ACBET) - St-Steel (ACSET)
<b>Locknut</b>	(L) Brass (ACBLN) - St-Steel (ACSLN)
<b>Serrated Washer</b>	(S) Stainless Steel (ACSSW)

<b>IP RATING:</b>	IP66 & IP68 (100 metres for 7 days)
<b>OPERATING TEMPERATURE:</b>	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
<b>MATERIALS:</b>	Brass or Stainless Steel
<b>PLATING:</b>	Electroless Nickel

**Male and Female Thread References and Size information can be found on page 40 of our product catalogue. Adaptor and Reducer size information is available on request sales@peppers.co.uk.**

**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.
- 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.