Copper Axial Expansion Joint

Specification

FlexEJ Small bore Copper ended axial expansion joints are made from stainless steel convoluted bellows for use in heating circuits. Designed to EJMA*.

Materials

Bellows:	316 Stainless Steel
Copper Ends:	BS EN1057 Table 'X'

Operating Conditions

Max Working Pressure:	6 Bar
Testing Pressure:	9 Bar
Max Working Temp:	90^{O}C

Part No.	DN	Supplied Length	Axial Move't (comp)	Spring Rate	Effective Area	Force to Compress	Pressure Rating	Pressure Thrust (6 Bar)
		mm	mm	N/mm	cm2	KgF	Bar g	KgF
MRCA12X220X6X25	15	220	25	19.1	5.2	49	6	31
MRCA20X230X6X25	20	230	25	19.1	5.2	49	6	31
MRCA25X235X6X25	25	235	25	26.2	8.2	67	6	50
MRCA32X245X6X25	32	245	25	28.5	13.7	73	6	82
MRCA40X250X6X25	40	250	25	35.2	20.4	90	6	123
MRCA50X250X6X25	50	250	25	59.8	32.1	153	6	193

Application

FlexEJ Small bore Copper ended expansion joints are used in small bore pipe work systems to absorb thermal movement in the axial direction.

Performance

Movements and pressure ratings apply for temperatures up to 90^{O}C. Copper pipe ended units should not be used above this temperature.

Installation

Take care when installing the bellow to ensure no torsion is applied. The unit is supplied at extended length so no cold pull is required. The bellow can be installed in any flow direction. These expansion joints require the pipe work to be suitably anchored and guided for correct installation. Take care when soldering or brazing to ensure no soldering flux comes into contact with the bellow convolutions. Doing so could cause a corrosive chemical reaction and premature failure. DO NOT USE BELLOWS TO CORRECT FOR MISALIGNMENT OF PIPING. Refer FlexEJ bellows installation manual for further details.

*EJMA – Expansion Joint Manufacturers Association