

Flexible Expansion Joint

(N 05 315)



Features and benefits

- can be applied in combination with:
 - inlet and outlet of air handling units, chillers, cooling towers and condensers
 - air suction and discharge of pumps
 - intervals in chilled water piping
- installation of Flexible Expansion Joints is recommended to compensate for axial, transverse and angular pipe movements, protecting the system from stress due to thermal pipe expansion or contraction
- due to the spherical shape of the bellow the flow of the fluid is smooth, resulting in negligible pressure drop across the joint
- control units for the flanges are available as optional attachments and are recommended to be used at installations where the rated movements of the joint are likely to be exceeded even if the piping system is anchored on both sides
- the control units consist of neoprene grommets, gusset plate, counter flange and control rod
- Construction Features
 - bellow: Neoprene (NBR and EPDM available on request)
 - reinforcement: nylon cord fabric and spring steel wire
 - flanges: floating forged steel, drilled to BS4504 PN 16 (ANSI standards on request); epoxy powder coated for corrosion resistance
- Technical Data
 - temperature resistance: from -15 °C to +115 °C
 - working media: water, compressed air, oil, weak acids / alkalines
 - vacuum: 700 mm Hg
- Technical Data:
 - maximum pressure: 2" to 12": 250 PSI / 17 bar
 - maximum pressure: 14" to 20": 140 PSI / 10 bar
 - burst pressure: 2" to 12": 650 PSI / 45 bar
 - burst pressure: 14" to 20": 550 PSI / 40 bar

| Part No. | D (") | R | L | B (mm) | k (mm) | Elongation (mm) | Compression (mm) | Control Rod Part No. |
|----------|----------|-----|--------|-----------|-----------|--------------------|---------------------|----------------------|
| DMEJ50 | 2 | M18 | 130 mm | 165 | 125 | 10 | 13 | DMCR50 |
| DMEJ65 | 2½ | M18 | 150 mm | 185 | 145 | 10 | 13 | DMCR65 |
| DMEJ80 | 3 | M20 | 150 mm | 200 | 160 | 10 | 13 | DMCR80 |
| DMEJ100 | 4 | M20 | 152 mm | 220 | 180 | 10 | 16 | DMCR100 |
| DMEJ125 | 5 | M22 | 152 mm | 250 | 210 | 10 | 16 | DMCR125 |
| DMEJ150 | 6 | M22 | 152 mm | 285 | 240 | 10 | 16 | DMCR150 |
| DMEJ200 | 8 | M24 | 165 mm | 340 | 295 | 13 | 16 | DMCR200 |
| DMEJ250 | 10 | M26 | 203 mm | 405 | 355 | 13 | 20 | DMCR250 |
| DMEJ300 | 12 | M28 | 203 mm | 460 | 410 | 13 | 20 | DMCR300 |
| DMEJ350 | 14 | M30 | 255 mm | 520 | 470 | 13 | 25 | DMCR350 |
| DMEJ400 | 16 | M32 | 255 mm | 580 | 525 | 13 | 25 | DMCR400 |
| DMEJ450 | 18 | M34 | 255 mm | 640 | 585 | 13 | 25 | DMCR450 |
| DMEJ500 | 20 | M36 | 255 mm | 715 | 650 | 13 | 25 | DMCR500 |
| DMEJ600 | 24 | M40 | 260 mm | 840 | 770 | 13 | 25 | DMCR600 |