



### MATERIALS

| Symbol | Parts Name         | Material                 |
|--------|--------------------|--------------------------|
| 1      | Body (Outer Layer) | Special Synthetic Rubber |
| 2      | Body (Inner Layer) | Special Synthetic Rubber |
| 3      | Reinforcing Fabric | Nylon Fabric             |
| 4      | Wire               | Hard Steel Wire          |
| 5      | Flange             | Mild Steel (Galv'd)      |

### DIMENSIONS AND ALLOWABLE MOVEMENTS (inch)

| Nominal Size |        | Neutral Length<br>L | Allowable Movements in Operation |      |      |      |
|--------------|--------|---------------------|----------------------------------|------|------|------|
| mm           | inch   |                     | A.C.                             | A.E. | L.D. | A.D. |
| 32           | 1 1/4" | 6                   | 1/2                              | 3/8  | 1/2  | 15°  |
| 40           | 1 1/2" | 6                   | 1/2                              | 3/8  | 1/2  | 15°  |
| 50           | 2"     | 6                   | 1/2                              | 3/8  | 1/2  | 15°  |
| 65           | 2 1/2" | 6                   | 1/2                              | 3/8  | 1/2  | 15°  |
| 80           | 3"     | 6                   | 1/2                              | 3/8  | 1/2  | 15°  |
| 100          | 4"     | 6                   | 5/8                              | 3/8  | 1/2  | 15°  |
| 125          | 5"     | 6                   | 5/8                              | 3/8  | 1/2  | 15°  |
| 150          | 6"     | 6                   | 5/8                              | 3/8  | 1/2  | 15°  |
| 200          | 8"     | 6                   | 5/8                              | 3/8  | 1/2  | 15°  |
| 250          | 10"    | 8                   | 3/4                              | 1/2  | 3/4  | 15°  |
| 300          | 12"    | 8                   | 3/4                              | 1/2  | 3/4  | 15°  |

A.C.=Axial Compression    A.E.=Axial Elongation    L.D.=Lateral Deflection    A.M.=Angular Deflection

### OPERATING CONDITIONS

- Operating Pressure: 232 psi
- Operating Temperature: 14° to 176°F
- Vacuum Rating: 27" / Hg
- Applicable Fluids: Water, Warm Water, Sea Water, Air & Weak Acid
- Flange Standard: DIN, ANSI, JIS & BS

### Operating Temperature against Operating Pressure

| Operating Temperature °F         | Ambient | 122 | 140 | 158 | 176 |
|----------------------------------|---------|-----|-----|-----|-----|
| Maximum Operating Pressure (psi) | 232     | 180 | 145 | 110 | 95  |

### NOTES

- Higher temperatures affect movement and pressure. As temperature increases, rated values must be reduced accordingly.
- Pressures shown are recommended "operating", test pressure is 1.5 times "operating".
- Vacuum rating is based on neutral installed length without external load. Products shall not be installed "elongated" on vacuum applications.
- Expansion joints may operate in pipelines or equipments carrying fluids at evaluated temperatures and pressures. Normal precautions shall be taken to make sure these parts are installed correctly and inspected regularly. Precautions shall be taken to protect personnel in the event of leakage or splash.
- For other kinds of applicable fluids, except the above, to which the rubber joint becomes applicable, please kindly consult your supplier or manufacturer.

