

# J-1W Wide Arch

- ▶ Same face-to-face as J-1
- ▶ Up to 3x more movement
- ▶ Less force required to move
- ▶ Saves space over multiple arch J-1
- ▶ Multiple wide arch available
- ▶ Made in U.S.A.



## Materials of Construction

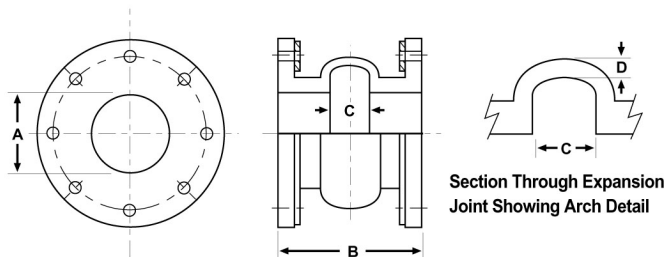
### ▶ ELASTOMERS

Pure Gum Rubber, Neoprene, Hypalon®, Chlorobutyl, Buna-N, EPDM, and Viton®

### ▶ VACUUM RATING

15 in. Hg. — Full Vacuum Available

Redflex® J-1W Wide Arch Expansion Joints are engineered to permit greater movement capabilities than standard J-1 Expansion Joints. J-1W Expansion Joints can be used to alleviate more extreme expansion and compression stresses, without the need for double or triple arches, since the J-1W has the **same face-to-face dimensions as the standard J-1 Single Arch Expansion Joint**. The wide arch design also reduces the amount of force required to cause movement in the expansion joint while allowing the J-1W to be used under the same working pressures as the standard J-1. These features and benefits of the J-1W Wide Arch Expansion Joint result in a cost savings for both new installations and for replacement operations.



## Dimensions and Movement J-1W Wide Arch Expansion Joint

| Size<br>A | B   | C  | D      | Axial<br>Compress | Force<br>Pounds<br>to Move | Axial<br>Elongation | Force<br>Pounds<br>to Move | Lateral<br>Deflection | Force<br>Pounds<br>to Move | Working<br>Pressure<br>(psi) |
|-----------|-----|----|--------|-------------------|----------------------------|---------------------|----------------------------|-----------------------|----------------------------|------------------------------|
| *1"       | 6"  | 2" | 1"     | 1-3/4"            | 144                        | 3/4"                | 106                        | 3/4"                  | 245                        | 165                          |
| *1-1/4"   | 6"  | 2" | 1"     | 1-3/4"            | 180                        | 3/4"                | 134                        | 3/4"                  | 306                        | 165                          |
| *1-1/2"   | 6"  | 2" | 1"     | 1-3/4"            | 216                        | 3/4"                | 161                        | 3/4"                  | 367                        | 165                          |
| *2"       | 6"  | 2" | 1"     | 1-3/4"            | 130                        | 3/4"                | 97                         | 3/4"                  | 245                        | 165                          |
| 2-1/2"    | 6"  | 2" | 1"     | 1-3/4"            | 162                        | 3/4"                | 120                        | 3/4"                  | 267                        | 165                          |
| 3"        | 6"  | 2" | 1"     | 1-3/4"            | 195                        | 3/4"                | 145                        | 3/4"                  | 288                        | 165                          |
| 4"        | 6"  | 2" | 1"     | 1-3/4"            | 260                        | 3/4"                | 193                        | 3/4"                  | 333                        | 165                          |
| 5"        | 6"  | 2" | 1"     | 1-3/4"            | 324                        | 3/4"                | 241                        | 3/4"                  | 382                        | 140                          |
| 6"        | 6"  | 2" | 1"     | 1-3/4"            | 389                        | 3/4"                | 289                        | 1"                    | 432                        | 140                          |
| 8"        | 6"  | 2" | 1"     | 1-3/4"            | 777                        | 3/4"                | 482                        | 1"                    | 527                        | 140                          |
| 10"       | 8"  | 2" | 1"     | 1-3/4"            | 850                        | 3/4"                | 603                        | 1"                    | 566                        | 140                          |
| 12"       | 8"  | 2" | 1"     | 1-3/4"            | 892                        | 3/4"                | 633                        | 1"                    | 664                        | 140                          |
| 14"       | 8"  | 3" | 1-1/4" | 2"                | 1019                       | 7/8"                | 723                        | 1-1/8"                | 782                        | 85                           |
| 16"       | 8"  | 3" | 1-1/4" | 2"                | 1019                       | 7/8"                | 723                        | 1-1/8"                | 900                        | 65                           |
| 18"       | 8"  | 3" | 1-1/4" | 2"                | 1147                       | 7/8"                | 814                        | 1-1/8"                | 994                        | 65                           |
| 20"       | 8"  | 3" | 1-1/4" | 2"                | 1506                       | 7/8"                | 1054                       | 1-1/8"                | 1112                       | 65                           |
| 24"       | 10" | 3" | 1-1/4" | 2"                | 1807                       | 1"                  | 1265                       | 1-1/8"                | 1194                       | 65                           |
| 26"       | 10" | 3" | 1-1/4" | 2"                | **                         | 1"                  | **                         | 1-1/8"                | **                         | 55                           |
| 28"       | 10" | 3" | 1-1/4" | 2"                | **                         | 1"                  | **                         | 1-1/8"                | **                         | 55                           |
| 30"       | 10" | 3" | 1-1/4" | 2"                | **                         | 1"                  | **                         | 1-1/8"                | **                         | 55                           |
| 36"       | 10" | 3" | 1-1/4" | 2"                | **                         | 1"                  | **                         | 1-1/8"                | **                         | 55                           |
| 42"       | 12" | 3" | 1-1/4" | 2"                | **                         | 1"                  | **                         | 1-1/8"                | **                         | 55                           |
| 48"       | 12" | 3" | 1-1/4" | 2"                | **                         | 1"                  | **                         | 1-1/8"                | **                         | 55                           |
| 54"       | 12" | 3" | 1-1/4" | 2"                | **                         | 1"                  | **                         | 1-1/8"                | **                         | 55                           |

\*Filled Arch Only  
On larger sizes, consult factory.