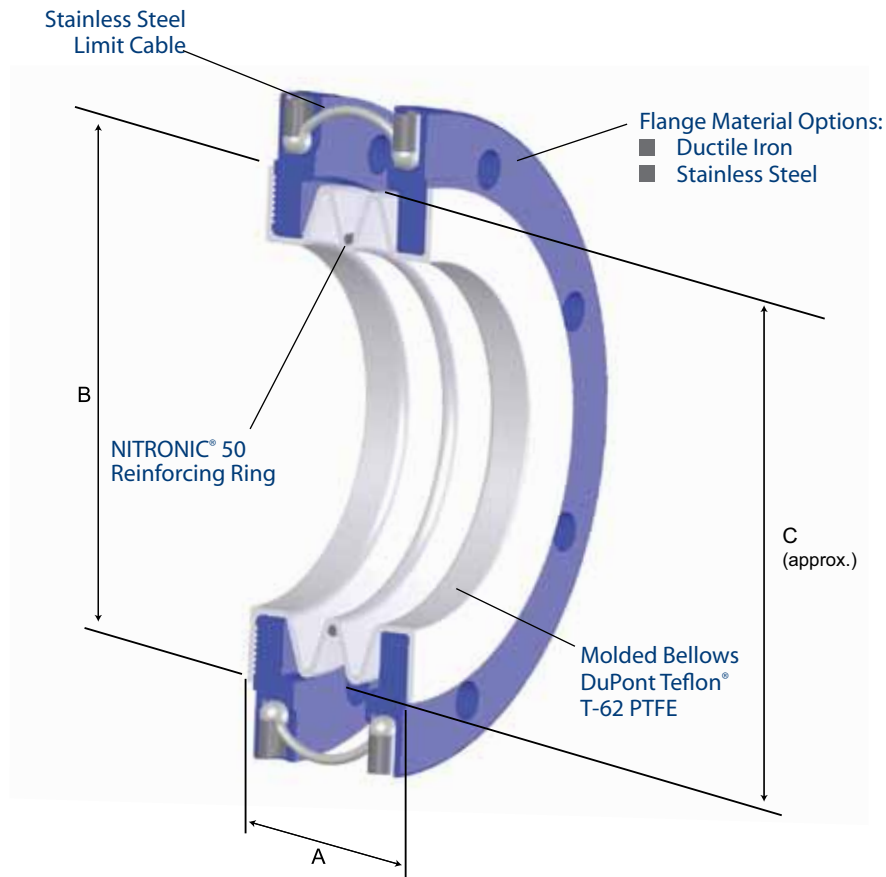
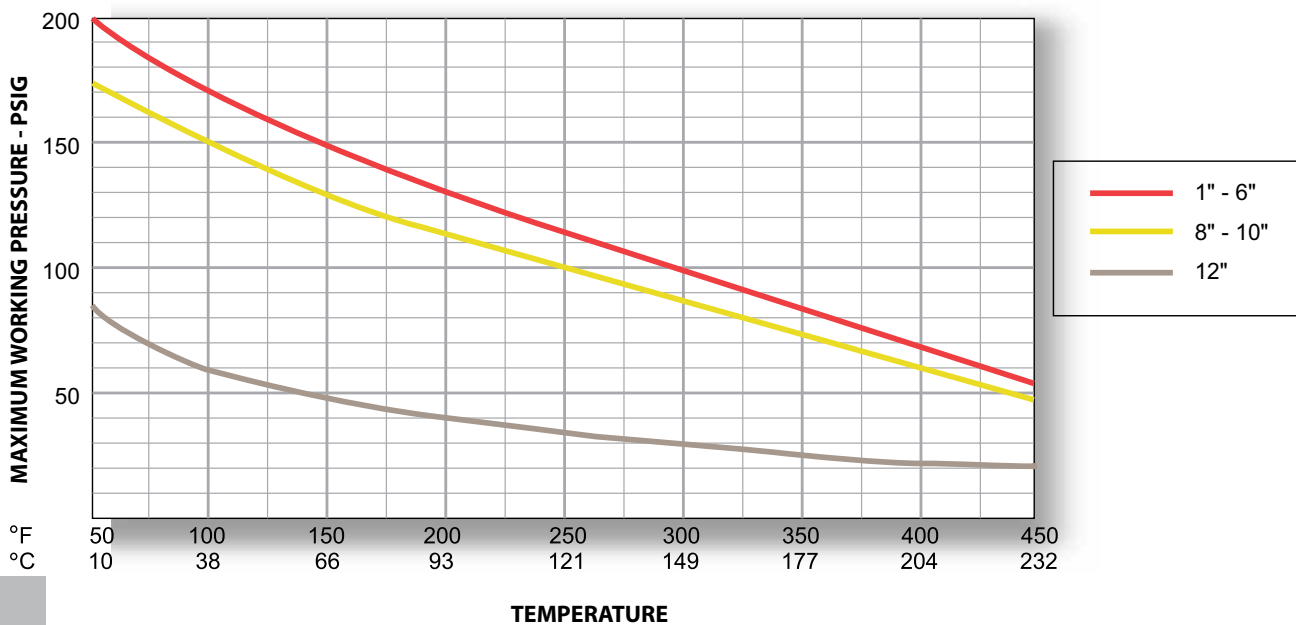


RESISTOFLEX®

E6904 - 2 Convoluted Expansion Joint



NON-SHOCK WORKING PRESSURE vs. TEMPERATURE



E6904 - 2 Convoluted Expansion Joint

| Nom. Size (I.D.) | Part Number | A | | B Flare Dia. | C Convoluted O.D. | Maximum Misalignment + or - | Max. Angular Deflection + or - | Compression Force Spring Rate (lb./in.) | Extension Force Spring Rate (lb./in.) | Misalignment Force Spring Rate (lb./in.) | Wt. (lbs.) | Vacuum Rating (in. Hg/°F) |
|------------------|-------------|----------------|-------------------------|--------------|-------------------|-----------------------------|--------------------------------|---|---------------------------------------|--|------------|---------------------------|
| | | Neutral Length | Max Axial Travel + or - | | | | | | | | | |
| 1 | E6904-016 | 1 3/4 | 11/32 | 2 | 1 7/8 | 1/4 | 16° | 140 | 144 | 120 | 3 | FV/425 |
| 1 1/2 | E6904-024 | 1 13/16 | 11/32 | 2 7/8 | 2 27/64 | 1/4 | 13° | 240 | 200 | 240 | 4 | |
| 2 | E6904-032 | 1 7/8 | 11/32 | 3 5/8 | 3 | 9/32 | 12° | 430 | 350 | 440 | 7 | |
| 3 | E6904-048 | 2 3/16 | 13/32 | 5 | 4 1/2 | 5/16 | 10° | 650 | 320 | 350 | 10 | |
| 4 | E6904-064 | 2 9/32 | 7/16 | 6 3/16 | 5 1/2 | 5/16 | 9° | 360 | 280 | 630 | 17 | FV/400 |
| 6 | E6904-096 | 2 17/32 | 15/32 | 8 1/2 | 8 | 3/8 | 7° | 460 | 350 | 720 | 27 | FV/400 |
| 8 | E6904-128 | 2 3/4 | 17/32 | 10 5/8 | 10 3/16 | 13/32 | 6° | 300 | 230 | 800 | 35 | FV/250 |
| 10 | E6904-160 | 2 31/32 | 9/16 | 12 3/4 | 11 3/4 | 7/16 | 5° | 1280 | 870 | 1000 | 52 | FV/250 |
| 12 | E6904-192 | 3 3/32 | 19/32 | 15 | 15 | 15/32 | 5° | 380 | 240 | 1000 | 107 | FV/75 |

All Dimensions in inches.

Maximum (axial) travel is based on installation with no misalignment or angular deflection.

Flange Material = Painted Ductile Iron

Limit Cable Material = Stainless Steel

Retaining Ring Material = NITRONIC® 50 Stainless Steel

T-Band Material = Carbon Steel

NOTE: Consult factory for spring rates for angular deflection.



Limit Cables vs. Limit Bolts

Limit cables provide a compact installation with no protruding bolt ends. They allow greater lateral and angular misalignment. Expansion joints with limit cables make a very compact package. Cables are permanently installed and cannot be misadjusted. The flexibility of the cable design does have three potential concerns:

- pipefitters can install this design at lateral misalignments beyond the allowable limits
- the individual strands of stainless steel aircraft cable can rapidly degrade and fray in coastal or chlorine service environments
- the cables do not provide any resistance or indicate that rotational forces (which will lead to premature failure and/or rupture) are present

By comparison, expansion joints with limit bolts are designed specifically to:

- limit lateral misalignment at installation
- provide a solid visual indicator (2X stronger than cables)
- stand up to service in coastal, marine, and chlorine environments
- provide resistance to rotational forces
- indicate the presence of rotational forces beyond the limit bolt yield strength

