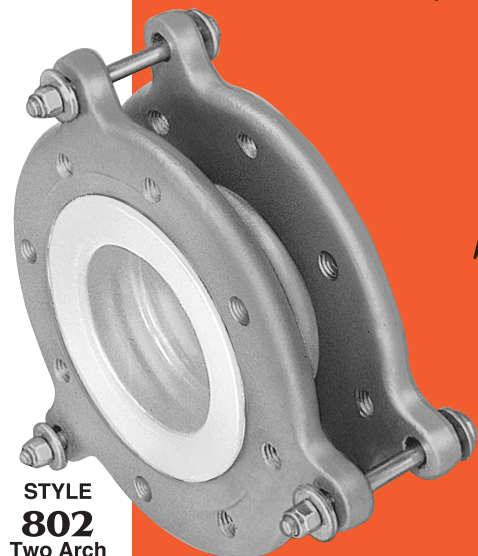


MERCER

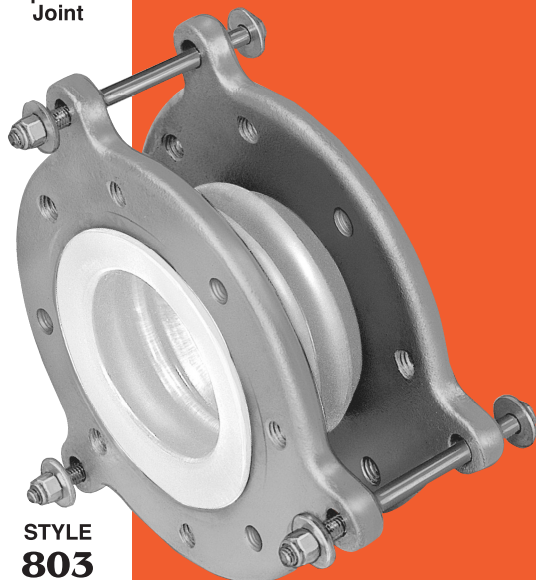


800

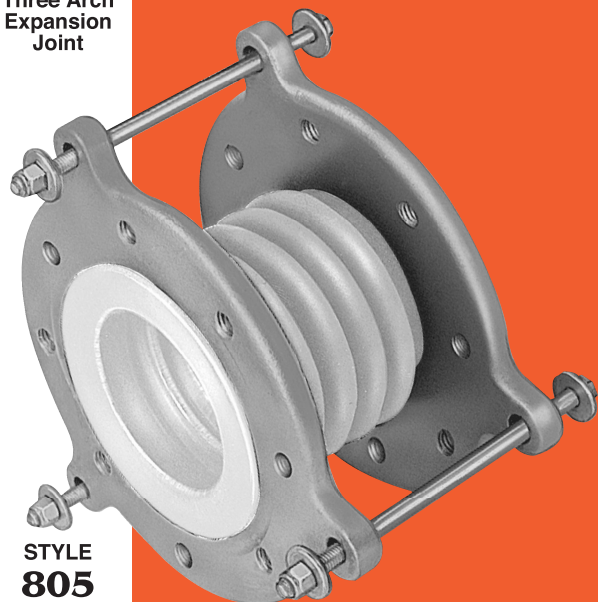
Teflon[®] Expansion Joints



STYLE
802
Two Arch
Expansion
Joint



STYLE
803
Three Arch
Expansion
Joint



STYLE
805
Five Arch
Expansion
Joint

MERCER Series 800 PTFE Teflon[®] Expansion Joints are the Sure and Economical Way to Solve Difficult Expansion and Misalignment

The Teflon[®] material is corrosive-proof, chemically inert and does not age. Flexibility and flex cycle life is equally exceptional.

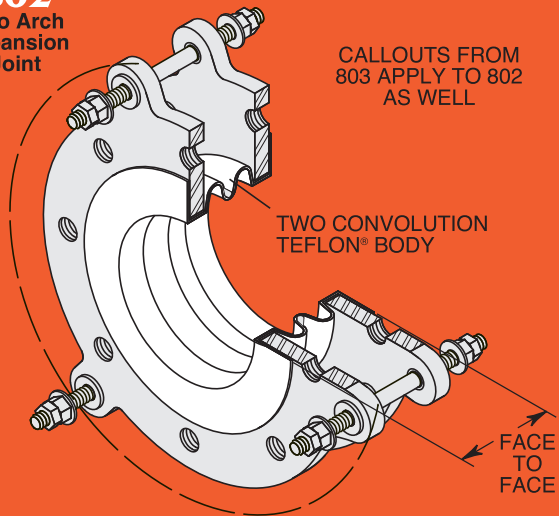
The Teflon[®] body is formed over the full sealing face of the flanges eliminating the need for separate gaskets. The fluid or gas never contacts the floating flanges.

The Type 800 is manufactured in 2, 3 and 5 arch variations designated 802, 803 and 805. Flexibility and allowable movements increase with the number of arches. Teflon[®] is ideally suited to the following problems:

- Handling Nitric or Sulfuric acid in mining or plating operations.
- Providing low spring rates and high flexibility to protect fragile FRP, PVC or glass pipe from damage caused by expansion, contraction or ambient vibration.
- Accommodating expansion and contraction in high temperature (to 350°F, 177°C) caustic green, white and black liquor lines in pulp mills.
- Preventing pipe line vibration from damaging glass linings in acid and caustic soda pumps.
- Providing flexibility to prevent flange leaks caused by the minor explosions in lines from Chlorine generators in bleaching plants of paper mills.
- Providing non-contaminating, sterilizable, flexible connectors for the food processing, medical, and chip manufacturing industries.

The standard assembly utilizes high strength carbon steel flanges complete with three restraining bolts. The Teflon[®] is reinforced externally with stainless steel rings between arches. They are also available with stainless steel flanges and stainless steel hardware. There is a MERCER Series 800 Teflon[®] Expansion Joint to suit your needs.

STYLE 802
Two Arch Expansion Joint

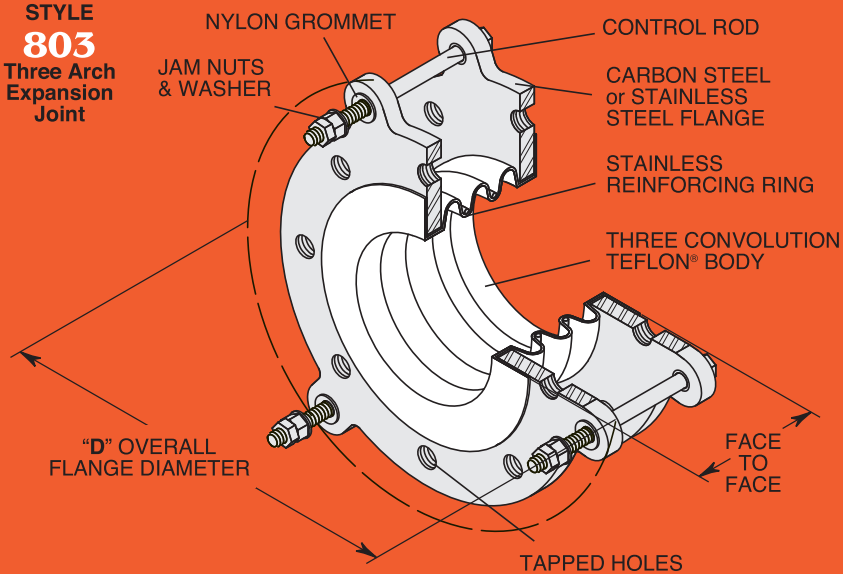


CALLOUTS FROM 803 APPLY TO 802 AS WELL

TWO CONVOLUTION TEFLON® BODY

FACE TO FACE

STYLE 803
Three Arch Expansion Joint



NYLON GROMMET

CONTROL ROD

JAM NUTS & WASHER

CARBON STEEL or STAINLESS STEEL FLANGE

STAINLESS REINFORCING RING

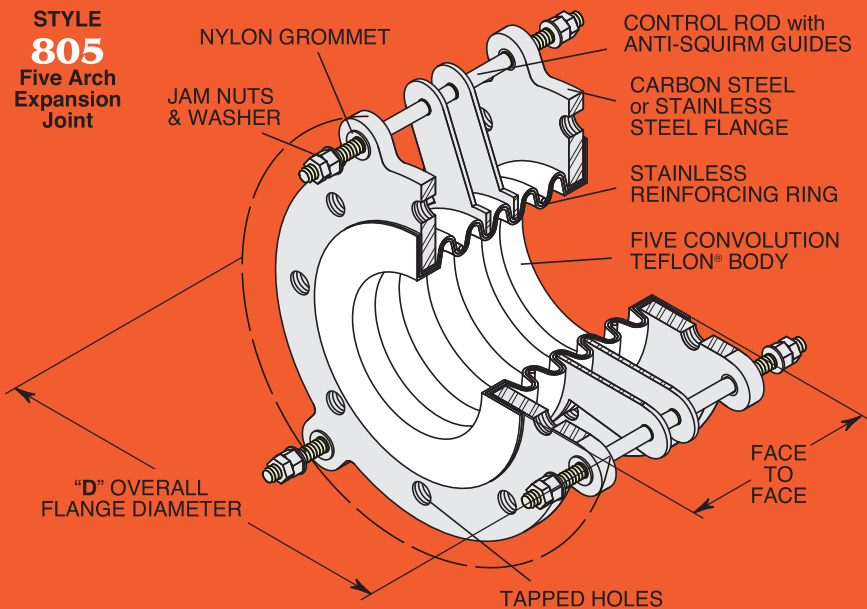
THREE CONVOLUTION TEFLON® BODY

FACE TO FACE

TAPPED HOLES

"D" OVERALL FLANGE DIAMETER

STYLE 805
Five Arch Expansion Joint



NYLON GROMMET

CONTROL ROD with ANTI-SQUIRM GUIDES

JAM NUTS & WASHER

CARBON STEEL or STAINLESS STEEL FLANGE

STAINLESS REINFORCING RING

FIVE CONVOLUTION TEFLON® BODY

FACE TO FACE

TAPPED HOLES

"D" OVERALL FLANGE DIAMETER

STYLE 800 SERIES
MAXIMUM PRESSURE RATINGS

Pipe Size in mm	Maximum Pressure Ratings (psig kg/cm ²) up to 100°F 38°C			
	802		803/805	
1 25	140	9.8	100	7.0
1½ 40	140	9.8	100	7.0
2 50	140	9.8	100	7.0
2½ 65	140	9.8	100	7.0
3 80	140	9.8	100	7.0
4 100	130	9.1	100	7.0
5 125	130	9.1	90	6.3
6 150	120	8.4	90	6.3
8 200	110	7.7	85	6.0
10 250	110	7.7	85	6.0
12 300	110	7.7	85	6.0

All joints are full vacuum rated up to 100°F (38°C)

STYLE 802 DIMENSIONS
and ALLOWABLE MOVEMENTS

Size in mm	Flange Dia. D in mm		Style 802		
	Face to Face in mm	Axial ± in mm	Face to Face in mm	Axial ± in mm	Max Misalignment in mm
1 25	6 152	2⅜ 60	¼ 6	⅛ 3	⅛ 3
1½ 40	6¾ 172	2⅜ 60	¼ 6	⅛ 3	⅛ 3
2 50	8⅛ 206	2⅜ 60	¼ 6	⅛ 3	⅛ 3
2½ 65	9⅞ 238	2⅜ 60	⅜ 9	⅛ 3	⅛ 3
3 80	10 254	3½ 89	⅜ 9	⅛ 3	⅛ 3
4 100	11⅛ 286	3½ 89	½ 13	⅛ 3	⅛ 3
5 125	13 330	3½ 89	½ 13	⅛ 3	⅛ 3
6 150	14 356	4 102	½ 13	⅛ 3	⅛ 3
8 200	16¼ 413	4 102	½ 13	⅛ 3	⅛ 3
10 250	19 483	6 152	½ 13	⅛ 3	⅛ 3
12 300	22½ 572	6 152	½ 13	⅛ 3	⅛ 3

STYLE 803 DIMENSIONS
and ALLOWABLE MOVEMENTS

Size in mm	Flange Dia. D in mm		Style 803		
	Face to Face in mm	Axial ± in mm	Face to Face in mm	Axial ± in mm	Max Misalignment in mm
1 25	6 152	3¼ 83	½ 13	¼ 6	¼ 6
1½ 40	6¾ 172	3¼ 83	½ 13	¼ 6	¼ 6
2 50	8⅛ 206	3¼ 83	½ 13	¼ 6	¼ 6
2½ 65	9⅞ 238	3¼ 83	¾ 19	¼ 6	¼ 6
3 80	10 254	4 102	¾ 19	¼ 6	¼ 6
4 100	11⅛ 286	4 102	1 25	¼ 6	¼ 6
5 125	13 330	4 102	1 25	¼ 6	¼ 6
6 150	14 356	4½ 114	1 25	¼ 6	¼ 6
8 200	16¼ 413	6 152	1⅞ 29	¼ 6	¼ 6
10 250	19 483	6 152	1⅞ 29	¼ 6	¼ 6
12 300	22½ 572	7 178	1⅞ 29	¼ 6	¼ 6

STYLE 805 DIMENSIONS
and ALLOWABLE MOVEMENTS

Size in mm	Flange Dia. D in mm		Style 805		
	Face to Face in mm	Axial ± in mm	Face to Face in mm	Axial ± in mm	Max Misalignment in mm
1 25	6 152	4 102	¾ 19	¼ 6	¼ 6
1½ 40	6¾ 172	4 102	¾ 19	¼ 6	¼ 6
2 50	8⅛ 206	4 102	1 25	¼ 6	¼ 6
2½ 65	9⅞ 238	4 102	1 25	¼ 6	¼ 6
3 80	10 254	5 127	1 25	¼ 6	¼ 6
4 100	11⅛ 286	5 127	1¼ 32	¼ 6	¼ 6
5 125	13 330	6 152	1¼ 32	¼ 6	¼ 6
6 150	14 356	6 152	1¼ 32	¼ 6	¼ 6
8 200	16¼ 413	8 203	1¾ 44	¼ 6	¼ 6
10 250	19 483	8 203	1¾ 44	¼ 6	¼ 6
12 300	22½ 572	9 229	2 51	¼ 6	¼ 6



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