

Rubber Expansion Joints

Threaded Union

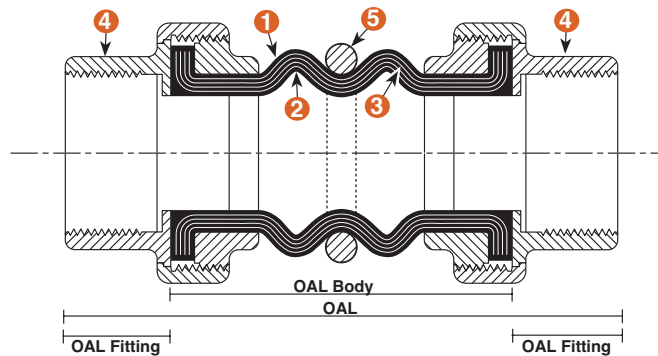
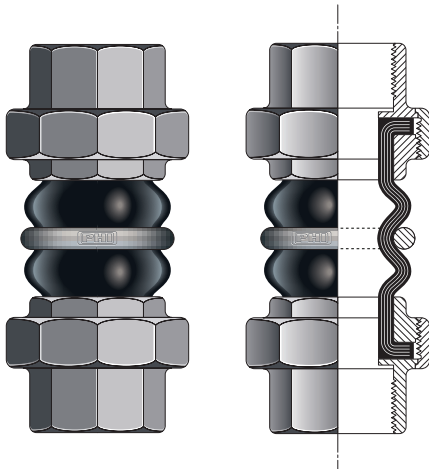
Style: TU

Threaded Union style molded rubber expansion joints are the choice when an economical threaded pipe connection is needed. The TU is engineered to absorb thermal movement, offset and misalignment in piping systems. The TU style is an excellent choice to absorb and isolate vibration. Use the TU to protect your system from start-up forces as well as system surges. There is no need to worry about Electrolysis when using a TU. Due to the design of the TU having a rubber body it eliminates metal to metal contact stopping the electrolytic process.

The TU comes standard with galvanized ductile iron female unions. Stainless T-304, T-316 and Bronze unions are also available. The TU rubber expansion joint comes standard and in stock in 100% EPDM and 100% Neoprene for same day shipment. The body components (tube/cover) are also available in a combination of the following additional materials on special order: Neoprene, EPDM, Chlorobutyl, Nitrile, Hypalon®, Viton®, Natural Rubber etc. Please see the materials table to determine what material is best for your application. The TU is also available on special request with the following female union threads: BSPP, BSPT and other standards.



Size	PHI	Operating Condition			OAL Length						Allowable Movement ¹				Dimensions		Weight (lbs)
Nominal Diameter	PART Number ^{5,6}	Max w.p. (psi) ^{2,3}	Max Vacuum (in. of Hg) ⁴	Max Temperature ²	Neutral OAL	Min Installed	Max Installed	Max Compressed	Max Extended	Recommended Pipe Opening	Axial Compression	Axial Extension	Lateral Deflection	Angular Deflection	OAL Fitting	OAL Body	With Female NPT Unions
1/2"	TU-08-"XX"	150	26"	250° F	8.0"	7.35"	8.12"	7.13"	8.23"	7.20"	0.87"	0.23"	± 0.87"	± 32.2°	0.92"	6.16"	1.08
3/4"	TU-12-"XX"	150	26"	250° F	8.0"	7.35"	8.12"	7.13"	8.23"	7.10"	0.87"	0.23"	± 0.87"	± 32.2°	1.00"	6.00"	1.54
1"	TU-16-"XX"	150	26"	250° F	8.0"	7.35"	8.12"	7.13"	8.23"	7.10"	0.87"	0.23"	± 0.87"	± 25.3°	1.25"	5.50"	2.65
1-1/4"	TU-20-"XX"	150	26"	250° F	8.0"	7.35"	8.12"	7.13"	8.23"	7.00"	0.87"	0.23"	± 0.87"	± 20.7°	1.25"	5.50"	3.48
1-1/2"	TU-24-"XX"	150	26"	250° F	8.0"	7.35"	8.12"	7.13"	8.23"	6.70"	0.87"	0.23"	± 0.87"	± 17.5°	1.35"	5.30"	4.32
2"	TU-32-"XX"	150	26"	250° F	8.0"	7.35"	8.12"	7.13"	8.23"	6.70"	0.87"	0.23"	± 0.87"	± 13.3°	1.60"	4.80"	5.71
2-1/2"	TU-40-"XX"	150	26"	250° F	9.6"	8.95"	9.72"	7.13"	8.23"	8.10"	0.87"	0.23"	± 0.87"	± 10.7°	2.00"	5.60"	9.38
3"	TU-48-"XX"	150	26"	250° F	9.6"	8.95"	9.72"	7.13"	8.23"	7.60"	0.87"	0.23"	± 0.87"	± 8.9°	2.00"	5.60"	11.62



Item #	Part
1	Cover
2	Tube
3	Carcass
1+2+3	Body
4	Union
5	Root Ring

NOTES

1. All Movements are non-concurrent. Contact Precision Hose & Expansion Joints to determine if your concurrent movements are acceptable.
2. Maximum working pressure is based on 190° F. See Temperature vs. Pressure chart for operating temperatures above 190° F.
3. Test pressure is 1.5 times working pressure. Burst pressure is approximately 4 times maximum working pressure.
4. The vacuum rating is based on the joint installed in the neutral length. Joints should not be installed in the extended position on vacuum applications.
5. "XX" in the part number is to be replaced by the appropriate body material code.
6. 1/2" and 3/4" TU do not have root rings as shown.