

Thorburn O-Seal Unions™ are recommended where piping requirements dictate the necessity of having a flat face seat to make and break the pipe line or when leaky metal-to-metal seat unions are unacceptable.

50mm/2 inch threaded leaking at 0 psi / 0 bar



Pitted Sealing Surface

Standard unions leak tight integrity is contingent upon the quality of the metal-to-metal sealing surfaces. When metal sealing surfaces become rusted, pitted, dented or scratched, they leak...

Thorburn O-Seal Union leak tight at 5500 psi / 367 bar



O-Ring Sealing Surface

Thorburn O-Seal Unions Sealing is not contingent upon the quality of the metal surfaces. The O-Ring seal can accommodate metal surfaces that are rusted, pitted, dented or scratched, and won't leak!

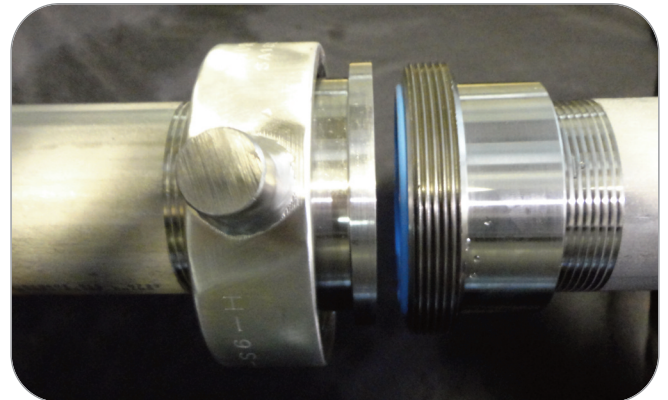
Features & Benefits:

- Materials: SA105 Carbon Steel, SA182 Type 316. Option SA350LF2, Hastelloy, Inconel
- ASME B31.1, B31.3 & ANSI B16.11 forged steel fittings
- Never needs retightening, no maintenance
Won't vibrate loose even under extreme vibration or pressure surges
- Unlimited brake/remake
- Hand tight pressures to 200 bar
- Flat face construction, easy slip in & out
- 3000, 6000 & 9000 psi ratings available

O-Seal Options:

Hammer Lug Nut for fast make and break

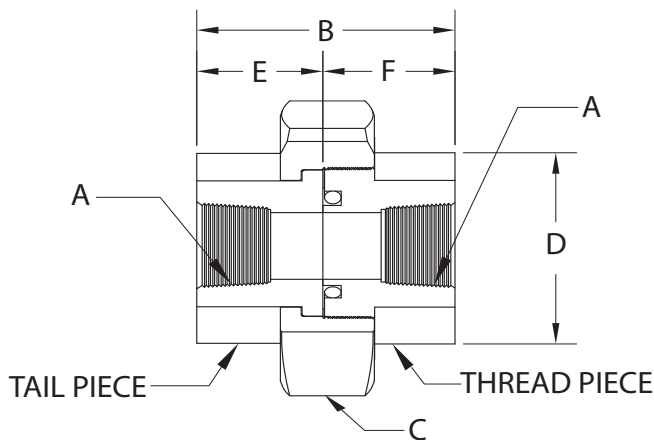
Dielectric-Insulating Unions - The most effective method of preventing electrolytic deterioration



Thorburn O-Seal Unions are easy to connect & disconnect and will provide continuous leak tight integrity

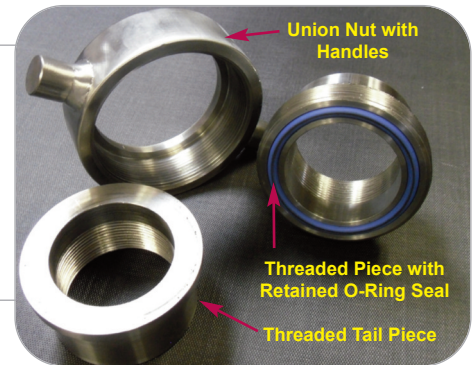


Thorburn O-Seal Unions are the ideal union choice where long term leak tight sealing is desired without retightening!



End Styles:

FNPT = Female NPT
MNTP = Male NPT
SW = Socket Weld
BW = Butt Weld



A - FNPT (in)	B	C - Hex	D	E - TAIL PIECE	F - THREAD PIECE	WEIGHT (lbs)
1/8 - 27	1.660	1 - 3/8	3/4	0.785	0.875	1/2
1/4 - 18	1.660	1 - 3/8	3/4	0.785	0.875	1/2
3/8 - 18	1.800	1 - 1/2	7/8	0.863	0.937	1/2
1/2 - 14	2.035	1 - 7/8	1 - 1/8	0.935	1.100	1
3/4 - 14	2.148	2 - 1/8	1 - 3/8	1.023	1.125	1 1/4
1 - 11 1/2	2.570	2 - 1/2	1 - 3/4	1.258	1.312	2
1 1/4 - 11 1/2	2.822	3	2 - 1/8	1.385	1.437	3
1 1/2 - 11 1/2	3.072	3 - 3/8	2 - 3/8	1.510	1.562	4
2 - 11 1/2	3.259	3 - 7/8	2 - 7/8	1.572	1.687	5
2 1/2 - 8	3.635	4 - 7/8	3 - 1/2	1.760	1.875	8 1/2
3 - 8	4.135	5 - 1/2	4	2.010	2.125	9

END STYLES	TAIL PIECE CODE	THREAD PIECE CODE	SIZE CODES	O-RING CODES	BODY MATERIAL CODES	OPTIONS
FNPT 3,000 lb pipe	F3	F3	02 (1/8)	B = BUNA N* T = PTFE E = EPDM V = FLUOROCARBON (VITON)*	CS = A105* S4 = 304SS* S6 = 316SS* H = HASTELLOY I = INCONEL M = MONEL T = TITANIUM	O = ORIFICE D = DIELECTRIC INSULATED H = HANDLE BAR LUG NUT
MNPT 3,000 lb pipe	M3	M3	04 (1/4)			
SW 3,000 lb pipe	S3	S3	06 (3/8)			
SW 3,000 lb tube	34	34	08 (1/2)			
BW 3,000 lb pipe	B3	B3	12 (3/4)			
Copper Tube	CT	CT	16 (1)			
FNPT 6,000 lb pipe	F6	F6	20 (1 1/4)			
MNPT 6,000 lb pipe	M6	M6	24 (1 1/2)			
SW 6,000 lb pipe	S6	S6	32 (2)			
SW 6,000 lb tube	64	64	40 (2 1/2)			
BW 6,000 lb pipe	B6	B6	48 (3)			

* Standard Material

How to Order Thorburn O-SEAL Unions

Thorburn Part Number (example)

TOS-F3F3-32-V-S6-H

TOS = Thorburn O-Seal Union
F3 = FNPT 3000 lb PipeTail Piece
F3 = FNPT 3000 lb PipeThread Piece
32 = Size of 2 inches (50mm)
V = Viton Material O-SEAL Ring
S6 = 316SS Body Material
H = Handle Bar Lug Nut



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