

T-Bolt Closures available in stainless and carbon steel

We are an authorized distributor of t-bolt style hinged closures. Vertical T-bolt and Horizontal closures are available.

Carbon specifications:

- Head: 2:1 Elliptical, SA516-70 PVQ
- Hub: SA516-70 PVQ PLATE or SA105 or S106 GR B/C Pipe
- Stainless Steel Specifications: SA240 type 304L or 316L w/carbon or stainless externals

Closures are available from 6" and up in 3 classes (Class 75, 150 & 300) according to pressure ratings needed.



Vertical T-Bolt Closures

T-Bolt Closures with a spring loaded head for vertical applications are furnished in sizes 10" - 42". The need for spring loading can be determined by reference to the table below. The tabulated "Force to Lift Head" is the force to lift the head **without** the springs.

Closure Size	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42
Weight of Head (lbs)	7	12	19	22	32	41	53	67	74	100	112	125	139	169	184	269	295	322	346
Force to Lift Head (lbs)	4	9	12	15	20	26	32	40	44	58	62	71	76	90	106	149	168	186	231

T-BOLT RATINGS

Closure Size	Class 75		Class 150		Class 300	
	Carbon Steel	Stainless Steel**	Carbon Steel	Stainless Steel**	Carbon Steel	Stainless Steel**
6	-	-	320	320	510	510
8	-	-	185	185	390	390
10	115	115	245	245	365	365
12	170	170	255	255	380	380
14	140	140	210	210	365	365
16	105	105	185	185	385	380
18	125	125	185	185	375	365
20	100	100	175	175	355	345
22	100	100	200	195	330	320
24	115	105	190	190	310	305
26	115	105	180	180	265	255
28	110	100	190	190	255	245
30	105	95	180	180	240	235
32	100	90	175	160	210	190
34	150	135	170	165	205	200
36	120	110	165	160	185	180
38	125	115	175	170	-	-
40	105	95	170	165	-	-
42	110	100	165	160	-	-
48	120	120	135	130	-	-

** Ratings apply to stainless steel closures with carbon steel bolts and attachments. Closures of all stainless steel are rated lower. For temperatures higher than 450F, consult Tube Turns stating temperature, pressure, fluid and type of o-ring required. Ratings apply for closures with ASME SA325 bolts. Slightly higher ratings are available in some sizes upon application by using ASME SA193 Grade B7 bolts, resulting in a slightly higher price.

Accessories:

Accessories can be ordered for an additional cost and include Break-Over Wrench and Camlock Assemblies. Both provide extra convenience, ease and speed in tightening the bolts and eliminate the need for a wrench.



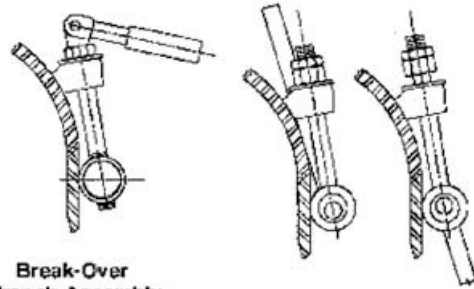
Break-Over Wrench Assembly



Camlock Assembly Aka flip over handles

T-BOLT CLOSURE OPTIONS

Break-Over Wrenches and Camlocks are optional attachments and accessories adding further to the versatility and utility of our T-Bolt Closures. Attachment of either of these options to the closure's T-Bolts provides extra convenience, speed and ease in tightening the bolts. These attachments eliminate the need for separate wrenches.



Break-Over Wrench Assembly

Tightened Loosened Camlock Assembly