

## Tanker® XP Series

### TNK 400

#### TNK 400 Features

- Engineered for high performance, long service life.
- Dynamic lubrication circulates oil onto seal surfaces with every stroke.
- Improved service life compared to coil springs.
- Bore seal design for superior contamination resistance.
- Fully adjustable charge pressure.
- Preloaded by gas pressure. Does not require compression in the die to preload.
- Available as self-contained or in a hosed system.
- Variety of mounting options provides flexibility in die design.

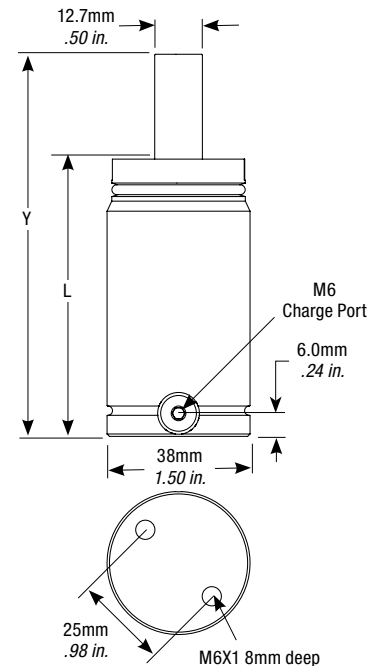
#### TNK 400 Specifications

Pressure Medium .....	Nitrogen
Maximum Charging Pressure .....	150 bar/2175 psi
Maximum Operating Temperature .....	80°C/176°F
Maximum Utilized Stroke .....	100%
Maximum Piston Rod Velocity .....	35 m/min 115 ft/min
Seal Kit .....	Part No. 56-072-7000
Charge Fitting .....	Part No. T2-770-T3

#### TNK 400 Dimensional Information

Part Number Model x Stroke	Stroke S		Contact Force		Y		L	
	mm	in	N	lbs	mm*	in**	mm	in
TNK 400 x 0.25	6.3	0.25	3940	885	63.5	2.5	57.2	2.25
TNK 400 x 0.5	12.7	0.50			76.2	3.0	63.5	2.50
TNK 400 x 0.75	19.0	0.75			88.9	3.5	69.9	2.75
TNK 400 x 1	25.4	1.00			101.6	4.0	76.2	3.00
TNK 400 x 1.5	38.1	1.50			127.0	5.0	88.9	3.50
TNK 400 x 2	50.8	2.00			152.4	6.0	101.6	4.00
TNK 400 x 2.5	63.5	2.50			177.8	7.0	114.3	4.50
TNK 400 x 3	76.2	3.00			203.2	8.0	127.0	5.00

\*±0.25mm \*\*± 0.010 in.

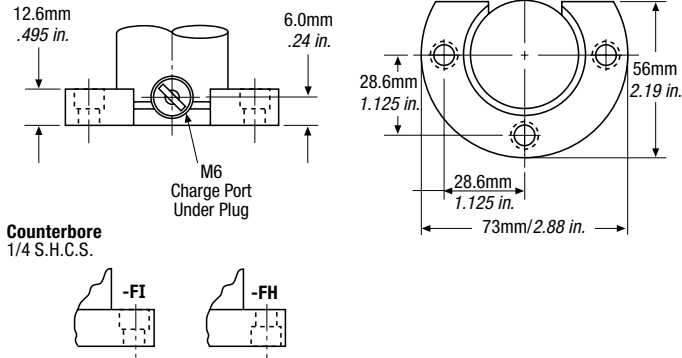


NOTE: Bottom mounting threads available in metric only.



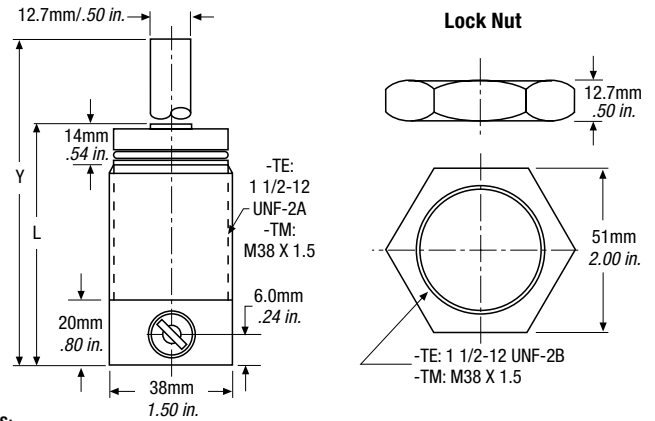
# Tanker® XP Series

## TNK 400 Flange Mount -FI or -FH



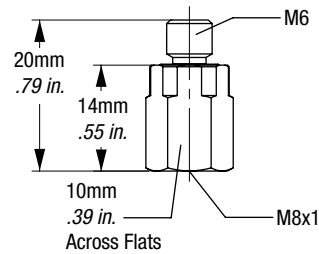
**NOTES:**  
 To order, specify -FI or -FH after the drop-in part number.  
 To order the flange separately: Flange Part No. 56-072-2002  
 Locking Wire Part No. 56-072-2004  
 The base of the spring extends past the bottom of the flange when assembled.  
 The gas spring will sit flush once it is bolted down. **DO NOT GRIND THE GAS SPRING!**

## TNK 400 Threaded Body -TE or -TM

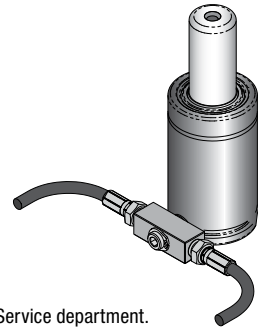
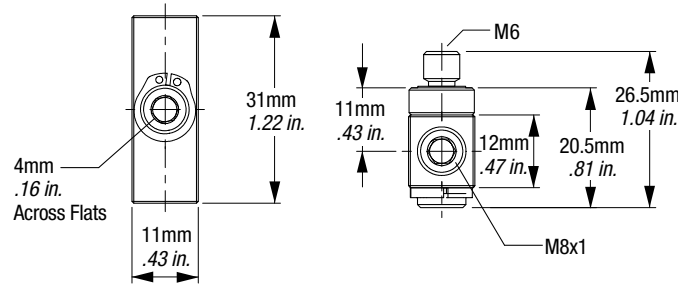


**NOTES:**  
 To order, specify suffix -TE for English assembly and -TM for metric assembly.  
 One lock nut is included with each threaded body spring.  
 To order lock nut separately: English Part No. 56-072-2013; Metric Part No. 56-072-2013M  
 The TNK 400-TE or -TM can be threaded into the die gas spring port **from the piston rod end only.**

## Straight Fitting EZ-503763



## 90° Two-Way Adapter EZ-503769



**NOTE:** Other fittings available. Contact the Customer Service department.

## TNK 400 Force Chart (at 150 bar/2175 psi)

in mm	0.00 0.0	0.25 6.4	0.50 12.7	0.75 19.1	1.00 25.4	1.50 38.1	2.00 50.8	2.50 63.5	3.00 76.2
	lbs kN	lbs kN	lbs kN	lbs kN	lbs kN	lbs kN	lbs kN	lbs kN	lbs kN
0.25 in 6.4 mm	885 3.94	1496 6.65							
0.50 in 12.7 mm	885 3.94	1114 4.96	1506 6.70						
0.75 in 19.1 mm	885 3.94	1024 4.55	1220 5.43	1508 6.71					
1.00 in 25.4 mm	885 3.94	986 4.39	1114 4.96	1282 5.70	1510 6.72				
1.50 in 38.1 mm	885 3.94	948 4.22	1025 4.56	1114 4.96	1221 5.43	1512 6.73			
2.00 in 50.8 mm	885 3.94	932 4.15	986 4.39	1046 4.65	1115 4.96	1284 5.71	1513 6.73		
2.50 in 63.5 mm	885 3.94	921 4.10	963 4.28	1009 4.49	1060 4.72	1177 5.24	1324 5.89	1513 6.73	
3.00 in 76.2 mm	885 3.94	915 4.07	949 4.22	986 4.39	1025 4.56	1115 4.96	1222 5.44	1352 6.01	1513 6.73

**NOTE:** All dimensions are nominal. Data shown are typical. Actual data for any particular unit may vary.



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