



Threaded Closures

Sizes: 4- through 14-inch



T.D. Williamson, Inc.

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■ **Threaded Closure with Hinge**
4- through 14-inch

Description

TDW Threaded Closures can be installed on scraper traps, filters, strainers, scrubbers, heat exchangers, blowdowns, and many other types of vessels. They operate in such fluids as natural gas, LNG, water, crude oil, etc. The closure is also available for vertical installation.

TDW also designs, engineers, and fabricates complete pigging systems that consist of launchers, receivers, closures, handling equipment, skids, pig passage indicators, launch pins, valves and piping, pigs, and spheres. TDW provides these systems in standard designs or built to the customer's specifications.

Features

The TDW Threaded Closure, available in sizes 4" through 14", offers important advantages:

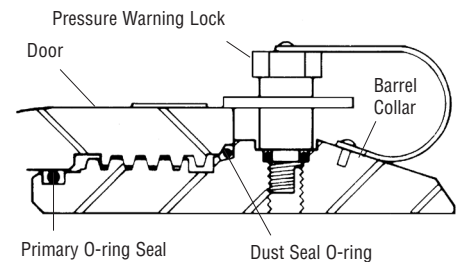
- A reliable primary seal. The large, cross-sectional diameter O-ring located on the barrel collar maintains a positive seal.
- A dust seal O-ring. The dust seal O-ring protects the threads from the outer-air environment.
- Competitive price. The simple design of the TDW Threaded Closure means economical production.
- Quick delivery. TDW manufactures the threaded closures in large quantities and keeps a well-stocked inventory to fill your orders promptly.
- Safety features. All threaded closures are equipped with a pressure warning lock, in accordance with UG-35 of ASME Sect. VIII, Div. 1, to alert the operator to the existence of internal pressure prior to opening the closure. In addition, the primary door seal is released before the threads are completely disengaged, which alerts the operator of internal pressure.

Options*

T. D. Williamson, Inc., is committed to providing you with the exact product to assist you in planning, budgeting and meeting the specifications for your individual application needs. The following options are available:

- Special Materials
- Material Certification
- Pressure Testing
- Special O-ring Material (standard O-ring material is Buna-N)
- Taper-Bored to Match Pipe-Wall Thickness
- Special Design for Vertical Installation
- Hinges are standard on closures 10" and larger and are optional in sizes 4", 6" and 8"

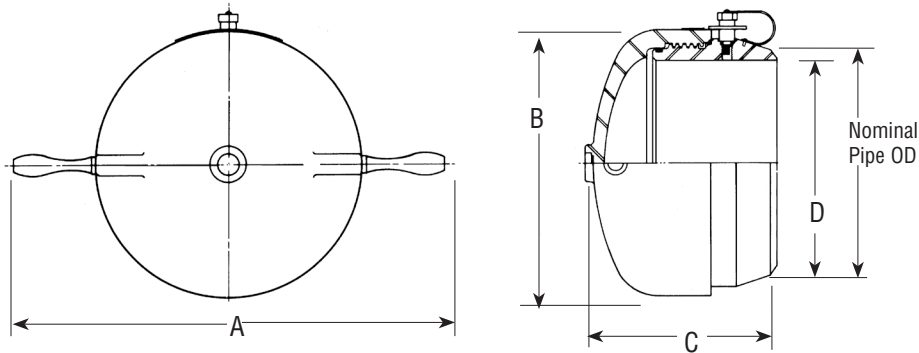
*For design codes or options not listed, and for larger sizes, consult the factory.



■ **Threaded Closure without Hinge** 4" 6" and 8"

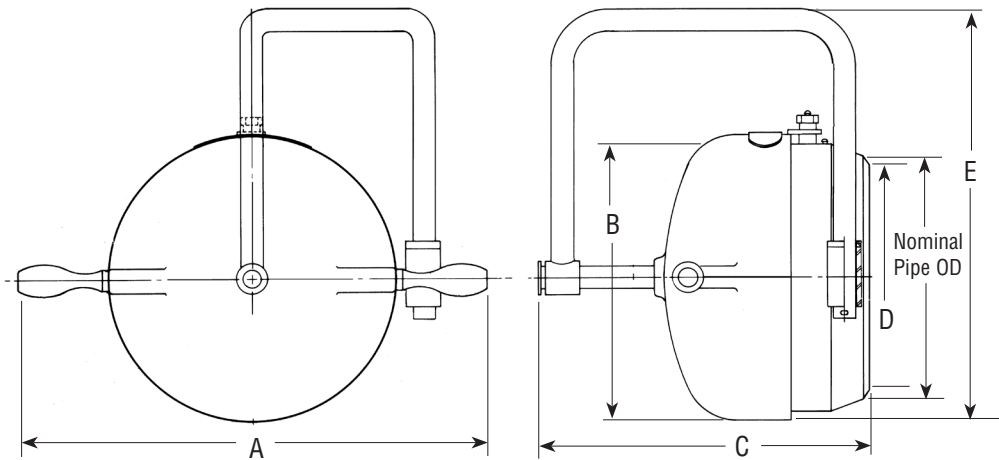
USA: 1-800-571-7447
England: (44) 1-793-603600

Threaded Closure Without Hinge
Sizes 4" through 8"



Size	A	B	C	D	Wt. Lbs.	Part Number
4"	12-9/16	5-7/16	5-11/16	3.826	15	19-0603-0000
6"	15	7-7/8	7-1/8	5.761	30	19-0604-0000
8"	17-7/16	10-5/16	9-1/4	7.750	80	19-0605-0000

Threaded Closure with Hinge
Sizes 4" through 14"



Size	A	B	C	D	E	Wt. Lbs.	Part Number
4"	12-9/16	5-7/16	9-3/4	3.826	10	19	19-0615-0000
6"	15	7-7/8	11-5/8	5.761	12-7/16	40	19-0616-0000
8"	17-7/16	10-5/16	14-1/8	7.750	15-1/8	95	19-0617-0000
10"	20-1/2	12-5/8	15-1/8	9-3/4	18-1/16	130	19-0606-0000
12"	22-1/4	14-3/8	16-3/16	11-3/8	20-1/16	150	19-0607-0000
14"	23-15/16	16-1/16	17-1/16	12-5/8	21-3/4	205	19-0608-0000



Pressure Ratings

per ASME Codes for Pressure Piping and ASME B&PV Code for TDW Threaded Closures

Pressures do not include allowance for corrosion. Pressures are in pounds per square inch, gage (psig).

Nominal Pipe Size (inches)	Stocked Bore ¹ (inches)	B31.4		B31.8		B31.3	SECT VIII
		0.72 DF MAWP	0.60 DF ² MAWP	0.50 DF MAWP	0.40 DF MAWP	DIV 1 MAWP	MAWP
4	3.826	2750	2290	1905	1525	2065	1480
6	5.761	2390	1995	1660	1330	1840	1480
8	7.750	2555	2130	1775	1420	1755	1480
10	9.750	2395	1995	1660	1330	1745	1480
12	11.375	2390	1995	1660	1330	1695	1480
14	12.625	2450	2040	1700	1360	1720	1480

¹Closures may be taper-bored for thinner wall pipe or supplied with heavier bores than those listed. Note: Taper-bored closures may result in decreased MAWPs; however, heavier bore closures will not result in increased MAWPs. Consult the factory for conditions not listed.

²ASME B31.8 paragraph 831.373 requires that maximum allowable stresses for material used in closure heads not exceed 60% SMYS and paragraph 841.121 requires that fabricated assemblies be designed at least to the design factor of 0.60.

Allowable test pressures in accordance with requirements of applicable ASME code. Consult the factory for appropriate values. TDW shop pressure testing optional.

Temperature Ratings

-20°F (-29°C) to 250°F (121°C)

Temperatures greater than 250°F (121°C) and less than or equal to 500°F (242°C) at reduced MAWP with suitable O-Ring material.

Replacement O-Rings

Nominal Pipe Size	Pressure Warning Lock O-Ring	Primary Seal O-Ring	Dust Seal O-Ring
4	00-0115-0004	00-0117-0027	00-0117-0045
6	00-0115-0004	00-0118-0040	00-1386-0008
8	00-0115-0004	00-0118-0041	00-1386-0009
10	00-0115-0025	00-0118-0039	00-1386-0010
12	00-0115-0025	00-0119-0037	00-1386-0011
14	00-0115-0025	00-0119-0018	00-1386-0012

Standard O-Ring material is 70 Durometer Nitrile (Buna-N).

Other compounds may be substituted to meet service requirements.



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