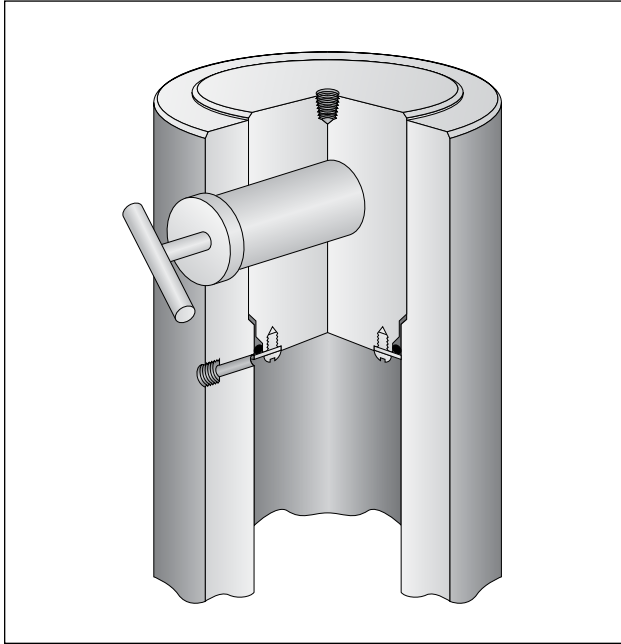


Threadless Pin Closure Pressure Vessel

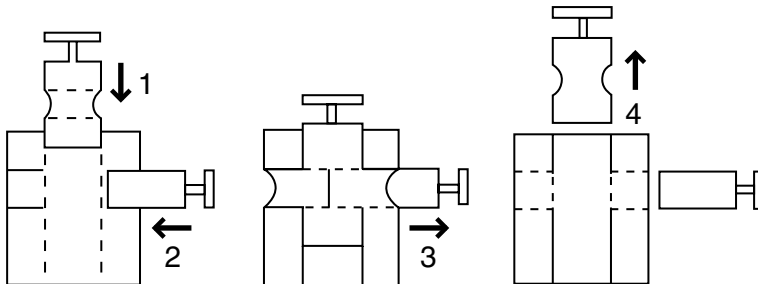


At a Glance

Standard Volumes: 2.5 L to 132 L
 MAWP: 15,000 to 60,000 psi @ 72°F
 (1034 to 4137 bar @ 22°C)
 Material of Construction: Alloy Steel

Principle of Operation

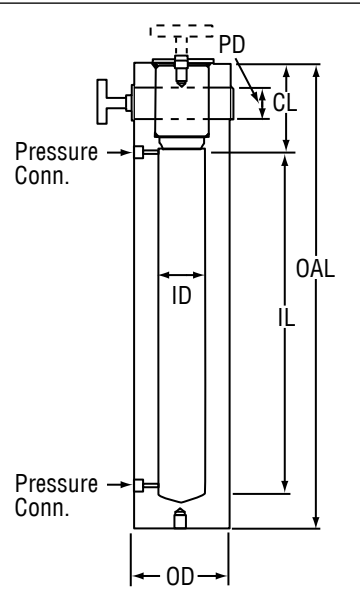
The threadless pin quick-opening pressure vessels feature rapid cyclic operation with greatly increased vessel life. The threadless pin closure replaces the bending stress that normally occurs in a threaded or breach closure pressure vessel. The pin closure provides a more uniform application of cover thrust in the vessel wall. Standard models include vessels sized for research as well as for production operation.



Autoclave Engineers threadless pin-closure, pressure vessels permit fast opening and closing of vessel for increased throughput and safety. To close: (1) lower cover; (2) insert pin. To open: (3) pull pin; (4) raise cover.

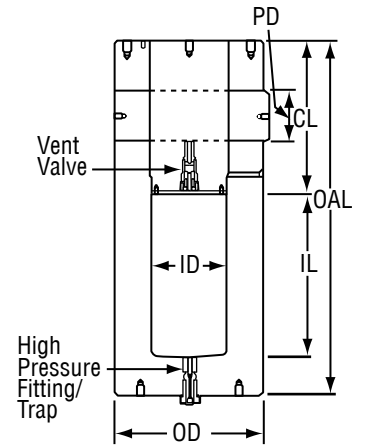
Specifications and Part Numbers

Model Drawing #	Pressure Rating @ 72° F (22° C) psi (bar)	Nominal Capacity	Dimensions-inches (mm)					
			ID	OD	IL	OAL	CL	PD
TP0250SL15 30A-7163	15,000 (1034)	2.5 liters	4.00 (102)	6.25 (159)	12.00 (305)	22.50 (572)	7.88 (200)	3.00 (76)
TP0250SL30 40A-9463	30,000 (2068)	2.5 liters	3.00 (76)	6.50 (165)	23.00 (584)	31.63 (803)	5.63 (143)	2.00 (51)
TP0550SL30	30,000 (2068)	5.5 liters	4.50 (114)	9.00 (229)	21.70 (551)	33.50 (851)	8.00 (203)	3.00 (76)
TP1050SL30 40C-0963	30,000 (2068)	10.5 liters	6.00 (152)	12.52 (318)	24.00 (610)	38.00 (965)	10.75 (273)	4.50 (114)
TP0100SL60 40A-9462	60,000 (4137)	1 liter	2.00 (51)	6.00 (152)	22.00 (559)	32.06 (814)	5.63 (143)	2.00 (51)
TP0250SL60 30-2229	60,000 (4137)	2.5 liters	3.00 (76)	9.00 (229)	22.00 (559)	33.50 (851)	8.00 (203)	3.00 (76)
TP0450SL60 30-2403	60,000 (4137)	4.5 liters	4.00 (102)	12.00 (305)	22.00 (559)	38.00 (965)	10.75 (273)	4.00 (102)



Specifications: Production Vessels, 11 liters to 132 liters

Model Drawing #	Pressure Rating @ 72° F psi (bar)	Nominal Capacity	Dimensions-inches (mm)					
			ID	OD	IL	OAL	CL	PD
TP132SL10 40A-4272	10,000 (689)	132L	16.00 (406)	24.00 (610)	40.38 (1026)	70.00 (1778)	22.00 (559)	8.00 (203)
TP9100SL20 40A-4273	20,000 (1379)	91L	14.00 (356)	24.00 (610)	38.00 (965)	70.00 (1778)	24.00 (610)	8.00 (203)
TP2500SL30 40A-6480	30,000 (2068)	25L	9.00 (229)	18.76 (476)	24.00 (610)	50.00 (1270)	18.00 (457)	6.75 (171)
TP6700SL30 40A-8981	30,000 (2068)	67L	12.00 (305)	25.00 (635)	36.40 (925)	70.00 (1778)	24.00 (610)	9.24 (235)
TP1100SL60 40A-7173	60,000 (4137)	11L	6.00 (152)	18.75 (476)	24.00 (610)	50.00 (1270)	18.00 (457)	6.75 (171)
TP3000SL60 40A-9447	60,000 (4137)	30L	8.00 (203)	25.00 (635)	36.38 (924)	70.00 (1778)	32.00 (813)	9.25 (235)



Optional O-Ring Chart

Material	Max Temp °F	Max Temp (°C)
Buna N	250°	(121°)
EPR	300°	(149°)
Silicone	400°	(204°)
*Viton®	450°	(232°)
PTFE Encapsulated *Viton®	450°	(232°)
*Kalrez®	500°	(260°)

* Products are registered trademarks of Dupont Dow Elastomers.

Ordering Guide

TP
Threadless Pin

0250
Capacity Code
1.0 L = 0100
2.5 L = 0250
4.5 L = 0450
5.5 L = 0550
10.5 L = 1050
11 L = 1100
25 L = 2500
30 L = 3000
67 L = 6700
91 L = 9100
132 L = 132

SL
Material of Construction
SL - Alloy Steel (SA-723)
SS - 17-4 PH Stainless

10
Pressure psi, (bar)
10 - 10,000 (690)
15 - 15,000 (1034)
20 - 20,000 (1379)
30 - 30,000 (2069)
60 - 60,000 (4138)

Features & Other Available Options

- Different connections, sizes and locations
- Stands
- Heaters
- ASME Code Stamp / CRN Registration
- Electro - Hydraulic Pumps
- Control Systems
- Automatic / Manual Cover Lift
- Automatic Pin Pull
- Material Handling Systems
- Contact factory to discuss your special requirements



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