

# Sample Cylinders

SC1 Series



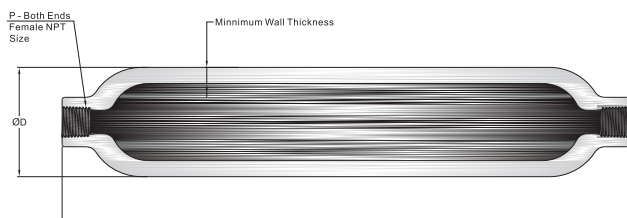
- ❖ Working pressure up to 5000 psig (344 bar)
- ❖ Internal volume from 40 to 3785 cm<sup>3</sup> (1 gal)
- ❖ Single-ended and double-ended

## Features

- ❖ Working pressure up to 5000 psig (344 bar)
- ❖ Internal volume from 40 to 3785 cm<sup>3</sup> (1 gal)
- ❖ Single-ended and double-ended
- ❖ Seamless tubing body provides consistent wall thickness, size and capacity
- ❖ Heavy wall end connections provide strength and resist flaring
- ❖ 316L and 304L and alloy 400 stainless steel materials available

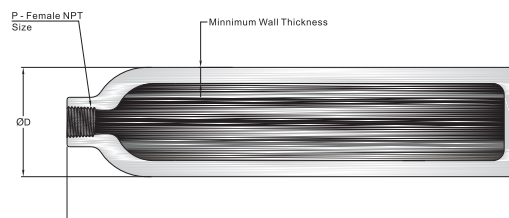
## Double-ended Cylinders

- ❖ Volume from 40 to 3785 cm<sup>3</sup> (1 gal)
- ❖ 304L and 316L stainless steel double-ended cylinders are available with dual certification to DOT and TC requirements



## Single-ended Cylinders

- ❖ 150, 300 and 500 cm<sup>3</sup> volume meet a variety of sampling needs



## Pressure vs. Temperature:

Material	316 SS	316L S.S., 304L S.S.	Alloy 400	304L S.S.
Temperature, °F (°C)	Working pressure, psig (bar)			
-65 (53) to 100 (37)	5000 (344)	1800 (124)	1800 (124)	500 (34.4)
200 (93)	3960 (272)	1360 (93.7)	1580 (108)	
300 (148)	3570 (245)	1230 (84.7)	1490 (102)	
400 (204)	3290 (226)	1130 (77.8)	1430 (98.5)	
500 (260)	3060 (210)	1050 (72.3)	1420 (97.8)	
600 (315)	2920 (201)	1000 (68.9)		
650 (343)	2870 (197)	980 (67.5)		
700 (371)	2810 (193)	970 (66.8)	1410 (97.1)	
750 (398)	2750 (189)	950 (65.4)		
800 (426)	2700 (186)	930 (64.0)	—	
850 (454)	2640 (181)	—	—	

## Technical Data and Dimensions

Materials Grade/Cylinder Specification	Working pressure, psig (bar)	Internal Volume cm <sup>3</sup> ± 5%	P - Female NPT	Dimension, in.(mm)				
				Φ D	L	Minimum wall thickness	Weight lb ( kg )	
<b>Single-Ended</b>								
304L S.S.	500 (34.4)	150	1/4	2.00 (50.8)	4.88 (124)	0.093 (2.4)	1.10 (0.50)	
		300			8.62 (219)		1.80 (0.82)	
		500			13.6 (330)		2.70 (1.23)	
<b>Double-Ended</b>								
304L S.S.	1800 (124)	40	1/8	1.25 (31.8)	3.88 (98.6)	0.070 (1.8)	0.31 (0.14)	
		50	1/4	1.50 (38.1)	3.75 (95.2)		0.38 (0.17)	
		75			4.94 (125)		0.62 (0.28)	
		150	1/4	2.00 (50.8)	5.25 (133)		0.093 (2.4)	0.94 (0.43)
		300			8.94 (227)			1.80 (0.82)
		400			11.4 (290)			2.10 (0.95)
		500			13.8 (351)			2.60 (1.18)
304L S.S.	1800 (124)	1000	1/4 or 1/2	3.50 (88.9)	10.9 (277)	0.180 (4.6)	6.50 (2.90)	
		2250		4.00 (102)	17.2 (437)		0.206 (5.2)	14.00 (6.40)
		3785 (1 gal)	26.7 (678)		21.00 (9.50)			
316L S.S.	1800 (124)	150	1/4	2.00 (50.8)	5.25 (133)	0.093 (2.4)	0.94 (0.43)	
		300			8.94 (227)		1.80 (0.82)	
		500			13.8 (351)		2.60 (1.20)	
316L S.S.	5000 (344)	150	1/4 or 1/2	1.90 (48.2)	8.00 (203)	0.240 (6.1)	3.00 (1.40)	
		300			14.5 (368)		5.60 (2.50)	
		500			23.5 (597)		9.10 (4.10)	
Alloy 400	1800 (124)	150	1/4	2.00 (50.8)	5.25 (133)	0.093 (2.4)	0.94 (0.43)	
		300			8.94 (227)		1.80 (0.82)	
		500			13.8 (351)		2.90 (1.3)	

### PTFE Coating or Electropolishing

- Internal PTFE coating, which provides a non-stick surface to aid in cleaning, can be supplied in any sample cylinder. To order, add -t to the cylinder ordering number.  
**Example: SC118-DFNPT4-300-316L-T**
- Electropolishing provide a clean inside surface with a high degree of passivation. To order, add -EP to the cylinder ordering number.  
**Example: SC118-DFNPT4-300-316L-EP**

❖ For rupture disc units and rupture disc tees please contact the CIR-LOK authorized representative

**How to Order**

**SC118 — DFNPT4 — 300 — 316L**

Series	Working pressure	End Type	End Connection	Internal Volume	Material
<b>SC1</b>	<b>5</b> 500psig <b>18</b> 1800psig <b>50</b> 5000psig	<b>D</b> Double-Ended <b>S</b> Single-Ended	<b>FNPT2</b> 1/8 Female NPT	<b>40</b> 40ml	<b>316L</b> 316L S.S.
			<b>FNPT4</b> 1/4 Female NPT	<b>50</b> 50ml	<b>304L</b> 304L S.S.
			<b>FNPT8</b> 1/2 Female NPT	<b>75</b> 75ml	<b>A400</b> Alloy 400
				<b>150</b> 150ml	
				<b>300</b> 300ml	
				<b>400</b> 400ml	
				<b>500</b> 500ml	
				<b>1000</b> 1000ml	
				<b>2250</b> 2250ml	
				<b>3785</b> 3785ml	