

Sample Cylinders

SC1 Series



- ❖ Working pressure up to 5000 psig (344 bar)
- ❖ Internal volume from 40 to 3785 cm³ (1 gal)
- ❖ Single-ended and double-ended

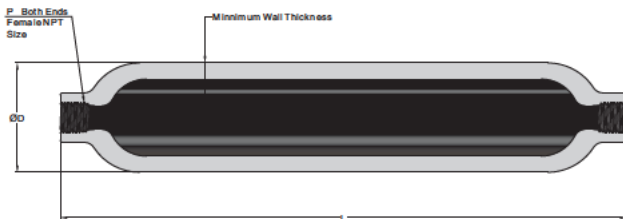
<https://kodats.com>

Features

- ❖ Working pressure up to 5000 psig (344 bar)
- ❖ Internal volume from 40 to 3785 cm³ (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

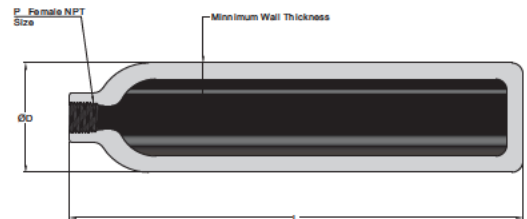
Double-ended Cylinders

- ❖ Volume from 40 to 3785 cm³ (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 cm³ 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 ³ ± 5%	P - Female NPT	Dimension, in.(mm)				
				ΦD	L	Minimum wall thickness	Weight lb (kg)	
Single-Ended								
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)	
Double-Ended								
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 -P to the cylinder ordering number.
Example: SC118-DFNPT4-300-316L-P

How to Order

SC118 — DFNPT4 — 300 — 316L

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