Sampling Assemblies, Sample Cylinders and Accessories



Condensate Pots Sample Cylinders

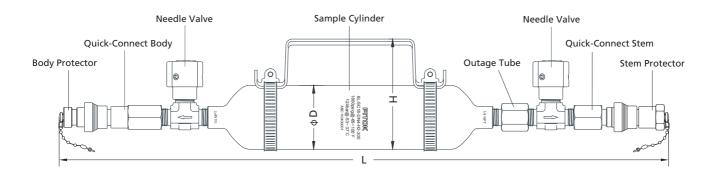
Sampling Assemblies

Features

- Sampling assemblies are widely used in liquid, liquefied gas and gas collection and sampling as sampling accessories
- Simple structure for easy assembling and disassembling. Safe and reliable transportation with rupture disc
- QC4 series quick-connects at double ends with excellent sealing performance, interchangeable with other key manufacturers' quick-connects
- O Customized upon request
- Working Temperature: 0°F~200°F (-17°C~93°C)



Construction



Name	Part Number	Description	Designator
Rupture Disc Tee	□□-TM4-F4-RD19	Refer to "Ordering Information and Dimensions" on page E-14	Р
Rupture Disc ree	□□-TM4-F4-RD28	Refer to "Ordering Information and Dimensions" on page E-14	Q
	ND□□-NS4-7	1/4 in. Male NPT, PCTFE stem tip and FKM O-ring	D
Na sella Makes	ND□□-NS4-FNS4-7	1/4 in. Female NPT, PCTFE stem tip and FKM O-ring	E
Needle Valve	ND□□-NS4-FNS4-7-SAFE1	With 1900 psig rupture disc	В
	ND□□-NS4-FNS4-7-SAFE2	With 2850 psig rupture disc	G
Quick-Connect Body	□□-QC4-NS4-B (or □□-QC4-FNS4-B)	QC4 series quick-connects, double-end shutoff,	-
Quick-Connect Stem	□□-QC4-NS4-D (or □□-QC4-FNS4-D)	FKM O-ring	С
Stem Protector	□□-QC4-SP		
Body Protector	□□-QC4-BP	QC4 series quick-connect protector	R
Sample Cylinder	See "Ordering Number Description"	Volume 290~3785 ml available	/
Outage Tube	□□-OT□□□□-NS4-FNS4	Refer to "Ordering Information" on page E-19	1

Note: Other accessories, such as pressure gauges, spring relief devices and the hoses, etc. are available. For details, please contact FITOK Group or our authorized distributors.





Ordering Information

Basic Ordering Number	Dime	ensions in. (m	nm)
Basic Ordering Number	D	Н	L
6L-SC18-DN4-H2-300-DOT-P2	2.00 (50.8)	3.46 (88.0)	10.76 (273.4)
6L-SC18-DN4-H2-OT5232-300-DOT-D1	2.00 (50.8)	3.46 (88.0)	13.39 (340.0)
6L-SC18-DN4-T-H2-OT5338-500-DOT-DCR1	2.00 (50.8)	3.46 (88.0)	23.96 (608.7)
4L-SC18-DN4-H2-OT5306-1000-DOT-BCR2S	3.50 (88.9)	5.04 (128.0)	20.93 (531.7)

Note: Dimensions and types listed are standard, other dimensions and types are available. For details, please contact FITOK Group or our authorized distributors.



Sample Cylinders

Application

- O Hydrocarbon sampling for refineries
- Gas sampling for chromatography experiments
- O Condensate sampling for fossil fuel and nuclear power plants
- As surge accumulators or reaction vessels
- As snubbers in reactor feed lines



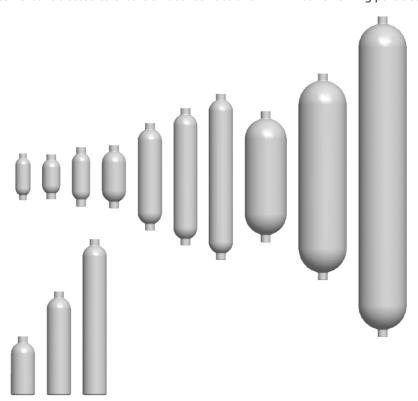
- O Capacities from 40 cm³ to 3785 cm³ (1 gal)
- © Spun cylinder body machined from seamless tubing to provide consistent wall thickness, size and capacity
- O Cold-formed female NPT thread to provide high strength
- ◎ 1/8", 1/4" and 1/2" female NPT connections
- © Full-penetration gas tungsten arc-weld construction to ensure no leak for sampling (single-ended cylinder only)
- O DOT and non-DOT cylinders available
- O Accessories, such as valves, relief devices, outage tubes, carrying handles, caps and plugs available

Design

FITOK sample cylinders are designed and manufactured in compliance with 49 CFR, the stringent regulation of U.S. Department of Transportation, to provide high reliability and long service life.

Spun cylinders are made of seamless tubing to increase the wall thickness of neck transitions and thread areas which provides high strength to reduce the leak risks.

The cylinders are internal sandblasted to ensure smooth surface and minimized remaining particles for easy cleaning.







Materials

FITOK DOT cylinders are available in 304L SS and 316L SS. FITOK non-DOT cylinders are available in 304L SS, 316 L SS and Alloy 400. For cylinders of other materials, please contact FITOK Group or our authorized distributors.

Pressure - Temperature

Material	316L SS ^①	316L SS, 304L SS ^①	316L SS, 304L SS ^①	Alloy 400	316L SS, 304L SS ^①	304L SS
DOT Specification	DOT-3A 5000	DOT-3E 1800	DOT-3A 1800	_	_	_
Temperature, °F (°C)			Working Pressu	re, psig (bar)		
-65 (-53) to 100 (37)	5000 (344)	1800 (124)	1800 (124)	1800 (124)	1000 (69.0)	500 (34.4)
200 (93)	3960 (272)	1360 (93.7)	1360 (93.7)	1580 (108)	840 (57.8)	500 (34.4)
300 (148)	3570 (245)	1230 (84.7)	1230 (84.7)	1490 (102)	760 (52.3)	500 (34.4)
400 (204)	3290 (226)	1130 (77.8)	1130 (77.8)	1430 (98.5)	700 (48.2)	500 (34.4)
500 (260)	3060 (210)	1050 (72.3)	1050 (72.3)	1420 (97.8)	650 (44.7)	500 (34.4)
600 (315)	2920 (201)	1000 (69.0)	1000 (69.0)	1420 (97.8)	620 (42.7)	500 (34.4)
650 (343)	2870 (197)	980 (67.5)	980 (67.5)	1420 (97.8)	610 (42.0)	500 (34.4)
700 (371)	2810 (193)	970 (66.8)	970 (66.8)	1420 (97.8)	590 (40.6)	500 (34.4)
750 (398)	2750 (189)	950 (65.4)	950 (65.4)	1410 (97.1)	580 (39.9)	500 (34.4)
800 (426)	2700 (186)	930 (64.0)	930 (64.0)	_	570 (39.2)	500 (34.4)
850 (454)	2640 (181)		_	_	560 (38.5)	_

 $[\]textcircled{\scriptsize 1}$ DOT and non-DOT cylinders available.

Notes: 1. Working temperature is limited to 300°F (148°C) maximum for cylinders with PTFE internal coating.

Testing

Single-ended Cylinders

All single-ended cylinders are hydrostatically tested at 1000 psig (69 bar).

Double-ended Cylinders

All double-ended cylinders are hydrostatically tested to at least 5/3 times the working pressure.

DOT-3A 1800 cylinders are hydrostatically tested at 3000 psig (206 bar) minimum.

DOT-3E 1800 cylinders are hydrostatically tested at 3050 psig (210 bar).

DOT-3A 5000 cylinders are hydrostatically tested at 8500 psig (586 bar) minimum.

Note: It is the responsibility of the party filling the cylinder to have it retested by an approved facility, at the required intervals.

Transportable Pressure Equipment Directive (TPED)

The Transportable Pressure Equipment Directive (TPED) provides requirements for the design, manufacturing, and testing of transportable pressure vessels and accessories, including sample cylinders and rupture discs. The directive aims to provide a uniform level of product safety throughout the European Union countries.

For information about FITOK TPED-compliant products, please refer to FITOK Catalog Sample Cylinders Compliant with the Transportable Pressure Equipment Directive (TPED).





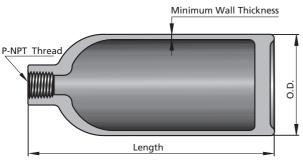
② Available only for miniature sample cylinders.

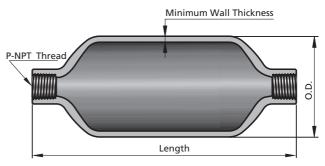
^{2.} Working pressure and temperature may be restricted by individual local government regulations.

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Technical Data

Dimensions are for reference only and are subject to change.





Material Pressure Internal Grade/Cylinder Rating Volume P		1	Dimensions, in. (mm)					
Specification	psig (bar)	(cm³±10%)	in.	O.D.	Length	Minimum Wall Thickness	Weight Ib (kg)	
				Single-ended				
		150			4.88 (124)		1.10 (0.50)	
304L SS	500 (34.4)	300	1/4	2.00 (50.8)	8.62 (219)	0.093 (2.4)	1.80 (0.82)	
		500			13.6 (345)		2.70 (1.2)	
				Double-ended				
		40	1/8	1.25 (31.8)	3.88 (98.6)	0.070 (1.8)	0.31 (0.14)	
		50	1/4	4.5 (20.4)	3.75 (95.2)		0.38 (0.17)	
		75	1/4	1.5 (38.1)	4.94 (125)		0.62 (0.28)	
304L SS/	1800	150 ^①			5.25 (133)		0.94 (0.43)	
DOT-3E 1800	(124)	290			8.86 (225)	0.093 (2.4)	1.79 (0.81)	
		300 ^①	1/4	2.00 (50.8)	8.94 (227)		1.80 (0.83)	
		400			11.4 (290)		2.10 (0.95)	
		500 [®]			13.8 (351)		2.61 (1.20)	
316L SS/ DOT-3A 1800	1800 (124)	1000 [®]	1/4 or 1/2	3.50 (88.9)	10.9 (277)	0.180 (4.6)	6.50 (2.90)	
	1800 (124)	1000 [®]	1/4 or 1/2	3.50 (88.9)	10.9 (277)	0.180 (4.6)	6.50 (2.90)	
304L SS/ DOT-3A 1800		2250 ^①	1/4 or 1/2	4.00 (102)	17.2 (437)	()	14.00 (6.40	
		3785 ^① (1 gal)			26.7 (678)	0.206 (5.2)	21.00 (9.50	
		150 ^①			5.25 (133)		0.94 (0.43)	
316L SS/	1800	290		2 00 (50 0)	8.86 (225)	0.003 (3.4)	1.79 (0.81)	
DOT-3E 1800	(124)	300 ^①	1/4	2.00 (50.8)	8.94 (227)	0.093 (2.4)	1.80 (0.83)	
		500 [®]			13.8 (351)		2.60 (1.20)	
		150 [®]			8.00 (203)		3.00 (1.40)	
316L SS/ DOT-3A 5000	5000 (344)	300 [®]	1/4	1.90 (48.2)	14.5 (368)	0.240 (6.1)	5.60 (2.50)	
201-3A 3000	, ,	500 ^①			23.5 (597)		9.10 (4.10)	
		150			5.25 (133)		0.94 (0.43)	
Alloy 400	1800 (124)	300	1/4	2.00 (50.8)	8.94 (227)	0.093 (2.4)	1.80 (0.82)	
	(,	(.= 1)	500			13.8 (351)		2.90 (1.30)



Options for Internal Cylinder Surface Treatments

PTFE Coating

The internal cylinder surface can be coated with PTFE to provide a nonstick surface for easy cleaning.

Electropolishing

Electropolishing can provide a clean internal surface with a high degree of passivation.

Cleaning and Packaging

All FITOK sample cylinders and cylinder valves are cleaned and packaged in accordance with FITOK FC-01 Standard Cleaning and Packaging.

FITOK FC-02 Special Cleaning and Packaging in compliance with the requirements of ASTM G93 Level C is optional.

Special Application Sample Cylinder

SilcoNert® 2000 (Sulfinert®) coated sample cylinders available, SilcoNert® 2000 (Sulfinert®) coating to provide stable storage of sulfur and mercury compounds at ppb levels in petroleum samples for a long time.

SilcoNert® 2000 (Sulfinert®) coating not flaking off and more durable than Teflon coating.

To order SilcoNert® 2000 (Sulfinert®) coated products, please add -SI as a suffix to the standard ordering number.

Example: 6L-SC18-DN4-H2-500-SI

Overpressure Protection

Cylinders for compressed air must be equipped with pressure relief devices in accordance with US DOT regulations and CGA Pamphlet S-1.1. The CGA Pamphlet lists devices that can be used with specific gases. It also contains information on other types of pressure relief devices.

▲ Be sure to use the correct pressure relief device for the gas being used.

A Proper filling of the cylinder according to DOT specifications or other local regulations, is critical in preventing overpressurization.

Rupture Disc Kits

Rupture disc kits protect sample cylinder from overpressurization by venting the gas to atmosphere.

The rupture disc kits are used to be installed in valves or rupture disc tees and sealed by O-rings.

The rupture disc kits can be easily replaced without removing valves or tees from cylinders.

Materials of Construction

Component	Material Grade/ASTM Specification
Body, inlet ring	316 SS/A479
Rupture disc	Alloy 600/B168
O-ring	Fluorocarbon FKM

Ordering Information

Nominal Burst Pressure at 70°F (20°C)	Ordering Number
2850 psig ± 150 psig 196 bar ± 10.3 bar	SS-RDD-7BS-2850
1900 psig ± 100 psig 130 bar ± 6.8 bar	SS-RDD-7BS-1900

Note: The rupture disc kits should be used with FITOK Rupture Disc Tees.

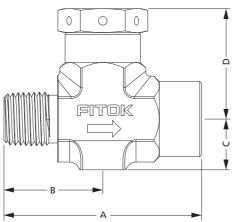




Rupture Disc Tees

These compact assemblies are designed for using with FITOK valves. Tees are made of 316 SS. Each tee is supplied with a rupture disc kit.

Ordering Information and Dimensions



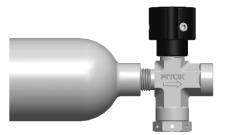
End Con	nections	Ordering	Din	Dimensions, in. (mm)				
Inlet	Outlet	Number	Α	В	С	D		
	With 2850 psig (196 bar) Rupture Disc							
1/4 in. Male NPT	1/4 in. Female	SS-TM4-F4-RD28	2.06 (52.4)	1.03 (26.2)	0.53 (13.5)	1.16 (29.4)		
1/2 in. Male NPT	NPT	SS-TM8-F4-RD28	2.63 (66.7)	1.50 (38.1)	0.75 (19)	1.42 (36)		
	With	1900 psig (130 bar)	Ruptui	e Disc				
1/4 in. Male NPT	1/4 in.	SS-TM4-F4-RD19	2.06 (52.4)	1.03 (26.2)	0.53 (13.5)	1.16 (29.4)		
1/2 in. Male NPT	Female NPT	SS-TM8-F4-RD19	2.63 (66.7)	1.50 (38.1)	0.75 (19)	1.42 (36)		



Nonrotating-stem Needle Valves with Rupture Disc Kits

Ordering Information and Dimensions

End Con	End Connections		Valve Ordering	Orifice	
Inlet	Outlet	Pattern	Number	in. (mm)	
		With 2850 p	osig (196 bar) Rupture Disc		
1/4 in.		Straight	NDSS-NS4-FNS4-7-SAFE2	0.16 (4.0)	
Male NPT	1/4 in.		NDSS-NS4-FNS4-7-A-SAFE2	0.10 (4.0)	
1/2 in. Male NPT	Angle		Angle NDSS-NS8-FNS4-8-A-SAFE2		
		With 1900 p	osig (130 bar) Rupture Disc		
1/4 in.		Straight NDSS-NS4-FNS4-7-SAFE1		0.16 (4.0)	
Male NPT	1/4 in. Female		NDSS-NS4-FNS4-7-A-SAFE1	0.16 (4.0)	
1/2 in. Male NPT	NPT	Angle	NDSS-NS8-FNS4-8-A-SAFE1	0.22 (5.6)	



^{2.} Other FITOK valves are available for using with sample cylinders. Please contact FITOK Group or our authorized distributors for details.



^{1.} Dimensions are for reference only and are subject to change.

Spring Relief Devices

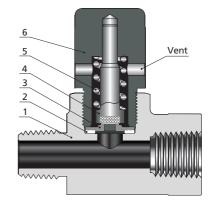
Features

- O Spring relief devices can be used with FITOK sample cylinders as a safety device
- When the system pressure reaches the set pressure, the device will open automatically to release the excess pressure in the system. After stabilizing the system pressure, the device will close automatically.
- Working Temperature: -20°F~250°F (-29°C~121°C)



Materials of Construction

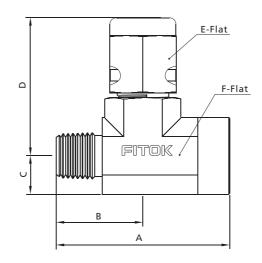
Item	Component	Material Grade/ASTM Specification
1	Body	316 SS/A182
2	Gasket	PCTFE/D1430
3	Seat	316 SS/A479
4	Stem	316 SS/A479+Fluorocarbon FKM
5	Spring	304 SS/A313
6	Bonnet	316 SS/A479



- 1. Lubricant: Silicone-based.
- 2. For other materials, please contact FITOK Group or our authorized distributors.

Dimensions and Ordering Information

All dimensions are for reference only and are subject to change.



Connection Type and Size		Dimensions, in. (mm)						Set Pressure Range								
Number	Inlet	Outlet	Α	В	С	D	E	F	psig (bar)							
RTSS-NS4-FNS4-4									350 ~ 400 (24~27)							
RTSS-NS4-FNS4-6	1 /4 Male NPT								540 ~ 600 (37~41)							
RTSS-NS4-FNS4-8	3 /8 Male NPT								1 /4 Female NPT	2.11	1.05	0.46	1.68	0.81	0.81	700 ~ 800 (48~55)
RTSS-NS6-FNS4-4		174 remaie NP1	(53.6)	(26.8)	(11.7)	(42.7)	(20.6)	(20.6)	350 ~ 400 (24~27)							
RTSS-NS6-FNS4-6									540 ~ 600 (37~41)							
RTSS-NS6-FNS4-8									700 ~ 800 (48~55)							

- ① Set pressure is in the middle of the set pressure range.
- $\ensuremath{\mathfrak{D}}$ For other set pressures, please contact FITOK Group or our authorized distributors.





Features

- © 316 SS and Alloy 400 available
- 1/4" and 1/2" NPT connections available

Construction

Outage tube is welded to the male thread end of an adapter. Screw the adapter with outage tube into the female thread end of a sample cylinder.

Purpose

The outage tube provides a vapor space of desired volume in a cylinder with liquefied gas. Therefore, liquids can expand when the temperature increases. A small temperature increase can make the liquids expanded and the pressure increased dramatically if there is not enough vapor space.

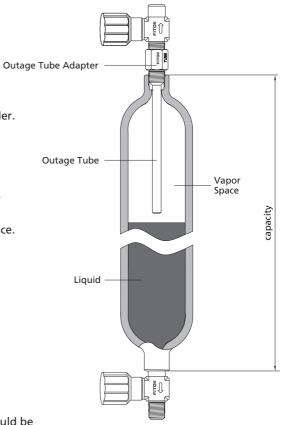
Note: For safe filling limits of your application, please refer to local regulations or other guidelines.

Usage

Outage tube is used to keep a certain vapor space in a cylinder. The space is determined by the length of outage tube. Outage is the vapor space in the cylinder expressed as a percentage of the total volume of the cylinder.

% outage = (vapor space/total volume) × 100

To obtain an exact outage, each outage tube and cylinder assembly should be calibrated by a suitable method.

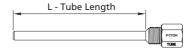






Outage Tube Length

The outage tube length (L) is measured from the end of the pipe fitting to the end of the tubing. The table below shows approximate outage tube length for standard sample cylinders.

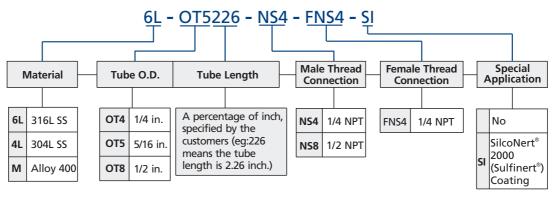


Tube of desired length is available upon request.

Tube	Cylinder				Minir	num Out	age, %	
O.D.	Volume	Code	•	10	20	30	40	50
	(cm³±10%)				Tub	e Length	, in.	
1/4"	40		4087	0.87	1.11	1.35	1.59	1.84
	50	s	5085	0.85	1.07	1.28	1.50	1.71
	75	der	5102	1.02	1.34	1.66	1.98	2.31
	150	ylin.	5112	1.12	1.45	1.79	2.13	2.46
	300	o pa	5165	1.65	2.32	2.99	3.67	4.34
5/16"	400	end	5200	2.00	2.90	3.79	4.69	5.59
	500	ple-	5226	2.26	3.38	4.50	5.62	6.74
	1000	doul	5231	2.31	3.06	3.81	4.56	5.31
	2250	to 800	5717	3.30	4.59	5.88	7.17	8.46
	3785 (1 gal)	able to 18	51114	4.62	6.79	8.96	11.14	13.31
	1000	Applicable to double-ended cylinders rated to 1800 psig	8221	2.21	2.96	3.71	4.46	5.21
1/2"	2250	Ap	8846	3.30	4.59	5.88	7.17	8.46
	3785 (1 gal)		8452	4.52	6.69	8.86	11.04	13.21
	150	e to led ated	5109	1.09	1.43	1.77	2.12	2.46
	300	Applicable to single-ended cylinders rated to 500 psig	5159	1.59	2.27	2.96	3.65	4.34
500	500	Appl singl cylin to 50	5560	2.16	3.30	4.45	5.60	6.74
3/10	150	to ded ited ig	5162	1.62	2.17	2.71	3.26	3.81
	300	Applicable to double-ended cylinders rated to 5000 psig	5274	2.74	3.84	4.93	6.03	7.12
	500	Appl doul cylinc to 50	5439	4.39	6.21	8.04	9.86	11.68

For the use of sample cylinder and outage tube, please refer to ASTM D1265, Standard Practice for Sampling Liquefied Petroleum (LP) Gases, Manual Method.

Ordering Number Description



Note: "Ordering Number Description" is a reference to understand the combination rules of FITOK product part number. Not all combinations are available.

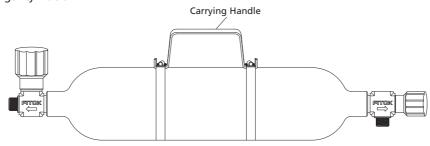




Accessories

Carrying Handle

The carrying handle provides convenience for transportation of sample cylinders. The handle is made of 304 SS and is available for 290 cm cylinders or larger cylinders.

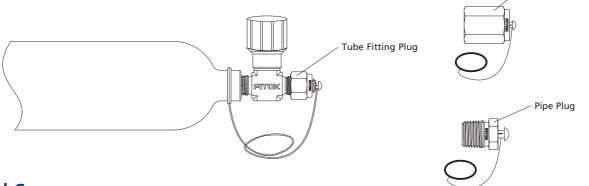


Ordering Information

Cylinder O.D. in. (mm)	Cylinder Volume cm³	Ordering Number
1.9 (48.2)	290~500	HD-CY2-H2
2.0 (50.8)	290~500	ΠD-C12-Π2
3.5 (88.9)	1000	HD-CY3-H2
4.0 (102)	2250/3785	HD-CY4-H4

Caps and Plugs

Caps and plugs are used for cylinder valves to protect the connections (tube fitting or NPT thread) from damages during cylinder transportation. For details, please contact FITOK Group or our authorized distributors.



End Caps

In order to enable users to transport pressurized samples in safety, end caps are offered by FITOK to protect valves from damages. Each end cap is screwed onto a neck ring that has been cold forged to the cylinder neck. End caps are made of carbon steel and are only available for 2250 cm³ and 3785 cm³ (1 gal) cylinders . FITOK angle pattern valves can be used for cylinders with end caps.







Accessory Material Same as cylinder NACE MR0175 Same as cylinde NACE MR0175 2000 (Sulfinert[®]) Coating Cleaning and Packaging Special Application SilcoNert FC-01 F2 FC-02 316 SS 316 SS S ž 15 25 Sampling Assembly Accessory (For Double-ended Only) ① needle valves with female thread (1900 psig single-end rupture disc tee) psig single-end rupture disc tee) Double-end QC series quick-connects (stem+body) One end with rupture disc tee (1900 psig) One end with rupture disc tee (2850 psig) Double-end ND series needle valves with Double-end ND series Double-end ND series Double-end ND series female thread (2850 needle valves with needle valves with Quick-connect protector female thread S male thread **F**2 - H2 - OT4087 - 300 - DOT - DCR1S O ū ۵ Δ ш Ω U ~ DOT Approval Approval 9 DOT For Double-ended Only Cylinder Volume 2250 cm³ 3785 cm³ 150 cm³ 1000 L000 cm 300 cm³ 500 cm³ 290 cm³ 400 cm³ 40 cm³ Note: "Ordering Number Description" is a reference to understand the combination 75 cm³ 50 cm³ ① When there are multiple accessory options, fill in the part number in sequence. 2250 3785 150 400 300 200 290 49 20 75 rules of FITOK product part number. Not all combinations are available Description on Page E-19 specifications, please refer to Ordering For outage Cylinder O.D. 1.9" to 3.5" Carrying Handle Outage Tube Number Cylinder O.D. 4" E ŝ I ŝ OT4087 OT5226 OT8846 갚 7 ı DN4 E Electropolishing Internal Surface PTFE Coating Sandblasting SC18 Cap & Plug g End (ŝ ī E 19 19 Cylinder Configuration 1/8 Female NPT 1/4 Female NPT 1/2 Female NPT End Connection Double-ended Single-ended 8 2 7 S ۵ 500 psig 18 1800 psig **50** 5000 psig Working Pressure 316L SS 304L SS Cylinder Material Series Alloy 400 SC **6**L 4 Σ



Ordering Number Description

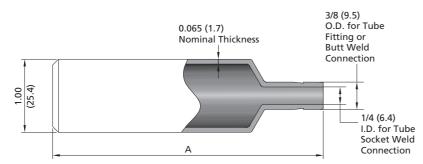
Miniature Sample Cylinders

Features

- Maximum working pressure: 1000 psig (69.0 bar)
- © Capacities: 10, 25 and 50 cm³
- © Single-ended and double-ended configurations available
- © Smooth internal neck transition for easy cleaning
- O Stainless steel construction to ensure high corrosion resistance
- Full-penetration butt weld constructions

Dimensions

Dimensions, in inches (millimeters), are for reference only and are subject to change.



Cylinder Configuration	Cylinder Volume cm³	Volume Tolerance	Working Pressure psig (bar)	A in. (mm)	Average Weight oz (g)
Single-ended	10	±10%	1000 (69.0)	2.19 (55.6)	2.2 (62)
	25	±5%		3.69 (93.7)	3.2 (91)
	50			6.25 (159)	5.6 (159)
Double-ended	10	±10%		2.75 (69.8)	1.9 (54)
	25	±5%		4.25 (108)	3.3 (94)
	50			6.81 (173)	5.1 (145)

Testing and Cleaning

Each miniature cylinder is pressure tested at 1667 psig (115 bar) with Nitrogen. Special Cleaning and Packaging in compliance with ASTM G93 Level C is optional.

Special Application Sample Cylinder

SilcoNert® 2000 (Sulfinert®) coated sample cylinders available, SilcoNert® 2000 (Sulfinert®) coating to provide stable storage of sulfur and mercury compounds at ppb levels in petroleum samples for a long time.

SilcoNert® 2000 (Sulfinert®) coating not flaking off and more durable than Teflon coating.

To order SilcoNert® 2000 (Sulfinert®) coated products, please add -SI as a suffix to the standard ordering number.

Example: 6L-SC18-DN4-H2-500-SI

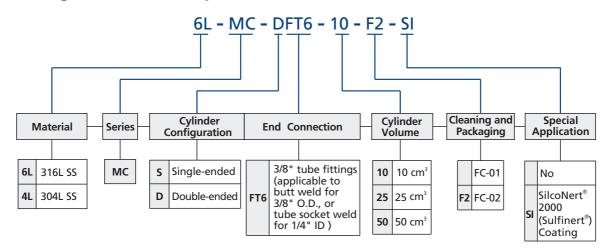




Cautions

- 1. No impingement during the usage of the cylinders.
- 2. Don't expose the cylinders in the sun or bake next to the heat source.
- 3. Sample cylinders are strictly prohibited roasting by fire when the cylinders are frozen.
- 4. When using the sample cylinders, the working pressure should not exceed its maximum allowable working pressure.

Ordering Number Description



condensate Pots ample Cylinders



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FK-IC-GC-02-EN-230621