Ultrahigh-Purity PFA Tubing PFA4 and PFA9D

Features

- Available in ultrahigh-purity and advanced (fluorosurfactant resistant) ultrahigh-purity grades
- 100 % virgin material
- PFA has high thermal stability
- Meets SEMI F57-0301 specifications
- Flammability: UL 94 rated V-O (self-extinguishing)



Pressure-Temperature Ratings

Fractional Tubing

Tubing Size, in.	1/8	1/4	3/8	1/2	3/4	1	1 1/4
Temperature	Working Pressure						
°F (°C)	psig (bar)						
75	300	275	235	170	110	8	0
(23)	(20.6)	(18.9)	(16.1)	(11.7)	(7.5)	(5	.5)
350	60	35	30	20	15		0
(176)	(4.1)	(2.4)	(2.0)	(1.3)	(1.0)		.6)

Metric Tubing

Tubing Size, mm	4	6	8	10
Temperature	Working Pressure			
°C (°F)	bar (psig)			
23	34.4	16.1	11.7	8.9
(75)	(500)	(235)	(170)	(130)
176	4.1	2.0	1.3	1.2
(350)	(60)	(30)	(20)	(18)

Marking

Tubing is laser etched with the tubing size, material designator, and lot traceability number.

Cleaning and Packaging

Ultrahigh-purity fluoropolymer tubing is packaged and shipped with the ends capped in accordance with SEMI F57-0301.

Tubing Sizes

Fractional Tubing

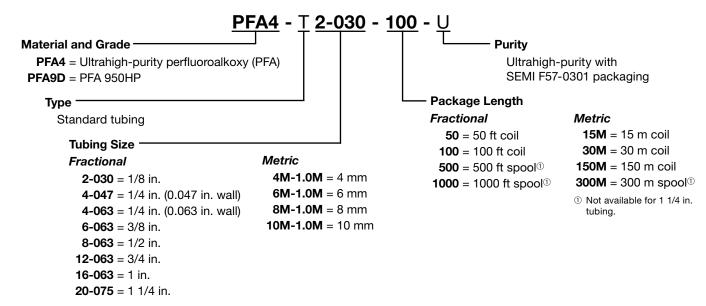
Tube OD in.	Tube ID in.	Nominal Wall Thickness in.
1/8	0.06	0.030
1/4	0.16	0.047
1/4	0.12	
3/8	0.25	
1/2	0.38	0.063
3/4	0.63	
1	0.88	
1 1/4	1.10	0.075

Metric Tubing

Tube OD mm	Tube ID mm	Nominal Wall Thickness mm
4	2.0	
6	4.0	1.0
8	6.0	1.0
10	8.0	

Ordering Information

Build an ultrahigh-purity fluoropolymer tubing ordering number by combining the designators as shown below.



Accessories

Tube Cutter

A tube cutter for plastic tubing up to 1 in. outside diameter is available.

Ordering number: **MS-HC-SC-1A**Replacement blade ordering number:

MS-HC-SC-1A-BLD



Ultrahigh-Purity Fluoropolymer Products

The Swagelok family of UHP fluoropolymer products includes pneumatically actuated and quarter-turn manual radial diaphragm-sealed shutoff valves, O-ring-free poppet check valves, and fine thread flare fittings.

See these Swagelok catalogs for more information:

- Ultrahigh-Purity Fluoropolymer Diaphragm Valves—DRP Series catalog, MS-02-171
- Ultrahigh-Purity Fluoropolymer O-Ring-Free Poppet Check Valves—CHP Series catalog, MS-02-320
- High-Purity PFA Fine Thread Flare Fittings catalog, MS-02-195

Introduction

Since 1947, Swagelok has designed, developed, and manufactured high-quality, general-purpose and specialty fluid system products to meet the evolving needs of global industries. Our focus is on understanding our customers' needs, finding timely solutions, and adding value with our products and services.

We are pleased to provide this global edition of the book-bound *Swagelok Product Catalog*, which compiles more than 100 separate product catalogs, technical bulletins, and reference documents into one convenient, easy-to-use volume. Each product catalog is up to date at the time of printing, with its revision number shown on the last page of the individual catalog. Subsequent revisions will supersede the printed version and will be posted on the Swagelok website and in the Swagelok electronic Desktop Technical Reference (eDTR) tool.

For more information, visit your Swagelok website or contact your authorized Swagelok sales and service representative.

Warranty Information

Swagelok products are backed by The Swagelok Limited Lifetime Warranty. For a copy, visit swagelok.com or contact your authorized Swagelok representative.

Safe Product Selection

When selecting a product, the total system design must be considered to ensure safe, trouble-free performance. Function, material compatibility, adequate ratings, proper installation, operation, and maintenance are the responsibilities of the system designer and user.

⚠ WARNING

Do not mix/interchange Swagelok products or components not governed by industrial design standards, including Swagelok tube fitting end connections, with those of other manufacturers.

Not all trademarks listed below apply to this catalog. Swagelok, Cajon, Ferrule-Pak, Goop, Hinging-Colleting, IGC, Kenmac, Micro-Fit, Nupro, Snoop, Sno-Trik, SWAK, VCO, VCR, Ultra-Torr, Whitey-TM Swagelok Company 15-7 PH—TM AK Steel Corp. AccuTrak, Beacon, Westlock-TM Tyco International Services Aflas-TM Asahi Glass Co., Ltd. ASCO FI-O-Matic-TM Emerson AutoCAD-TM Autodesk, Inc. CSA-TM Canadian Standards Association Crastin, DuPont, Kalrez, Krytox, Teflon, Viton-TM E.I. duPont Nemours and Company DeviceNet-TM ODVA Dyneon, Elgiloy, TFM—TM Dyneon Elgiloy—TM Elgiloy Specialty Metals FM -TM FM Global Grafoil-TM GrafTech International Holdings, Inc. Honeywell, MICRO SWITCH-TM Honeywell MAC-TM MAC Valves
Microsoft, Windows-TM Microsoft Corp. NACE-TM NACE International PH 15-7 Mo, 17-7 PH-TM AK Steel Corp picofast—Hans Turck KG Pillar-TM Nippon Pillar Packing Company, Ltd. Raychem—TM Tyco Electronics Corp Sandvik, SAF 2507—TM Sandvik AB Simriz—TM Freudenberg-NOK SolidWorks-TM SolidWorks Corporation UL-Underwriters Laboratories Inc. Xylan-TM Whitford Corporation © 2021 Swagelok Company