



**FLUOROGARD® RS
RESIST STRIPPING FILTERS**

*Optimized for removal of films, gels and hard particles
from photoresist strippers and residue removers*



superior protection from films, gels and hard particle contamination

Overview

Designed for filtration of photoresist stripping and residue removal chemistries, Fluorogard® RS filters and prefilters deliver superior protection from films, gels and hard particle contamination. Utilizing an optimized, multi-layer, pleated membrane, Fluorogard RS filters enable high-capacity removal of photoresist contaminants in both single-pass applications and recirculation systems, even at elevated temperatures. Fluorogard RS filters achieve 2–3 times longer life than traditional filters to increase system uptime.

Fluorogard RS filters are available in cartridge and disposable formats. The cartridge membrane's high surface area maximizes contaminant removal capabilities in a compact design without sacrificing flow rate performance. The fully encapsulated, molded disposable housing provides reliable, leak-free integrity and added safety.

Selection Guide

Fluorogard P-RS	PTFE prefilter used in series with Fluorogard RS-T in non-ashing photoresist stripping
Fluorogard RS-M	PTFE prefilter/membrane filter combination for non-ashing photoresist stripping
Fluorogard RS-T	PTFE membrane filter for photoresist stripping and residue removal after ashing

Features and Benefits

Features	Benefits
High-capacity, multi-layer membrane technology	Enables high-capacity removal of photoresist contamination (films, gels and hard particles) in both single-pass and recirculation applications Achieves 2–3 times longer life than traditional membrane filters to increase system uptime
High-flow design with optimized pleated membrane and large surface area	Maximizes contaminant removal in a compact design without sacrificing flow rate performance
Retention ratings of 0.05 µm, 0.1 µm and 0.2 µm	Provides excellent gel and small particle retention

Specifications

Fluorogard RS-T and RS-M Cartridge and Disposable Filters

		RS-T	RS-M
Materials:	Filtration media	Optimized PTFE membrane	PTFE pre-filtration media and optimized PTFE membrane
	Disposable shell		PFA
	Supports, sleeve, end cap, core		PFA
	Cartridge o-ring	TEE (Teflon® fluoropolymer encapsulated ethylene-propylene rubber)	
Retention ratings:	0.2 µm, 0.1 µm and 0.05 µm		
Maximum operating conditions:	Maximum inlet pressure	0.34 MPa (3.4 bar, 50 psi) @ 25°C (77°F)	
	Maximum forward differential pressure	0.44 MPa (4.4 bar, 64 psi) @ 25°C (77°F)	
		0.05 MPa (0.5 bar, 7.5 psi) @ 180°C (302°F)	
	Maximum reverse pressure	0.34 MPa (3.4 bar, 50 psi) @ 25°C (77°F)	
	Maximum operating temperature	180°C (356°F)	
Surface area:	13,000 cm ² (14 ft ²)	6,500 cm ² (7 ft ²)	

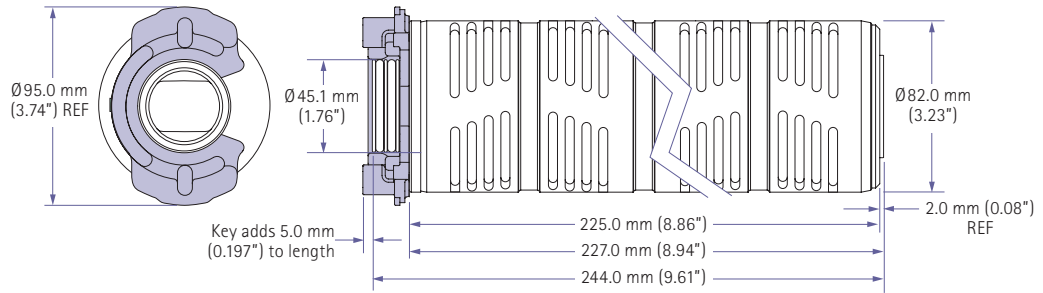
Fluorogard P-RS Cartridge Prefilters

Materials:	Filtration media	PTFE non-woven membrane	
	Supports, sleeve, end cap, core	PFA	
	Cartridge o-ring	TEE	
Retention rating:	40 µm		
Maximum operating conditions:	Maximum inlet pressure	0.34 MPa (3.4 bar, 50 psi) @ 25°C (77°F)	
	Maximum forward differential pressure	0.44 MPa (4.4 bar, 64 psi) @ 25°C (77°F)	
		0.05 MPa (0.5 bar, 7.5 psi) @ 180°C (302°F)	
	Maximum reverse pressure	0.34 MPa (3.4 bar, 50 psi) @ 25°C (77°F)	
Maximum operating temperature	180°C (356°F)		
Surface area:	14,000 cm ² (15.1 ft ²)		

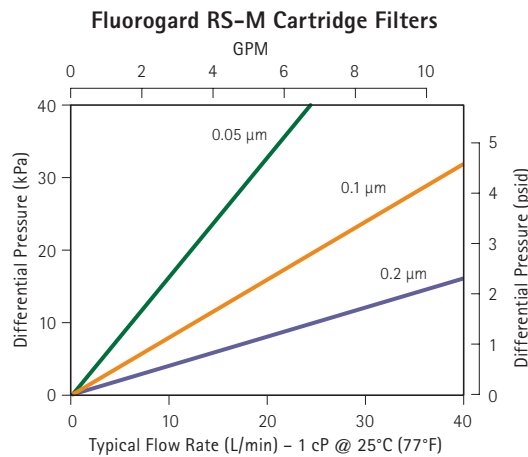
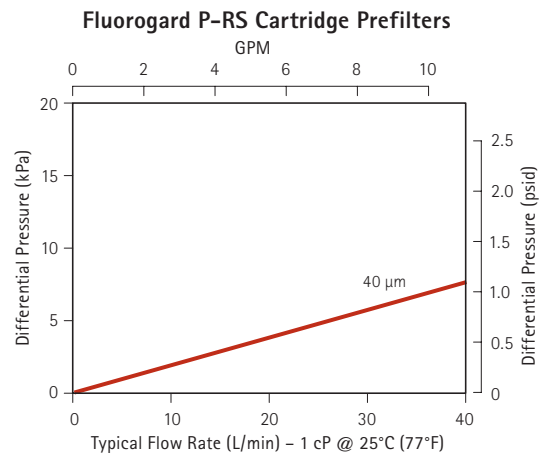
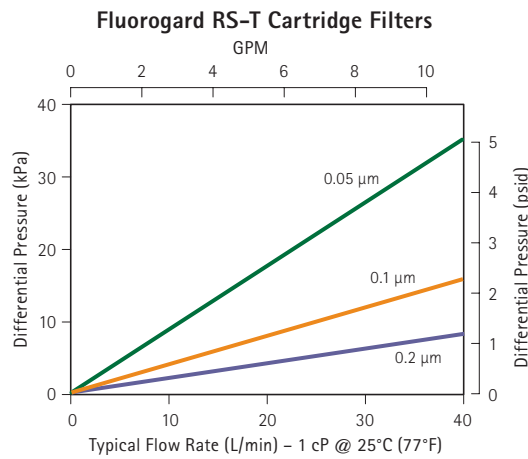
Fluorogard RS Cartridge Filters and Prefilters

Dimensions

These dimensions apply to Fluorogard RS-T and RS-M cartridge filters and P-RS cartridge prefilter – 10" length.



Performance Data

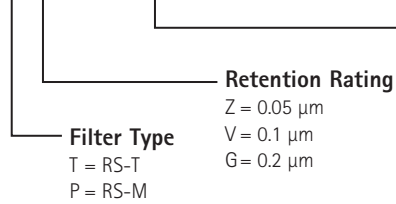


Ordering Information

Fluorogard RS-T and RS-M Cartridge Filters

Part Number

CT 01 P 01



Key
 K = Optional Chemlock® key attached to cartridge for use with Chemlock Housing ONLY.
 N = 0.05 µm membrane

Retention Rating
 Z = 0.05 µm
 V = 0.1 µm
 G = 0.2 µm

Filter Type
 T = RS-T
 P = RS-M

Fluorogard P-RS Cartridge Filters

Part Number

CTPR 01 P 01



Key
 K = Optional Chemlock key attached to cartridge for use with Chemlock Housing ONLY.

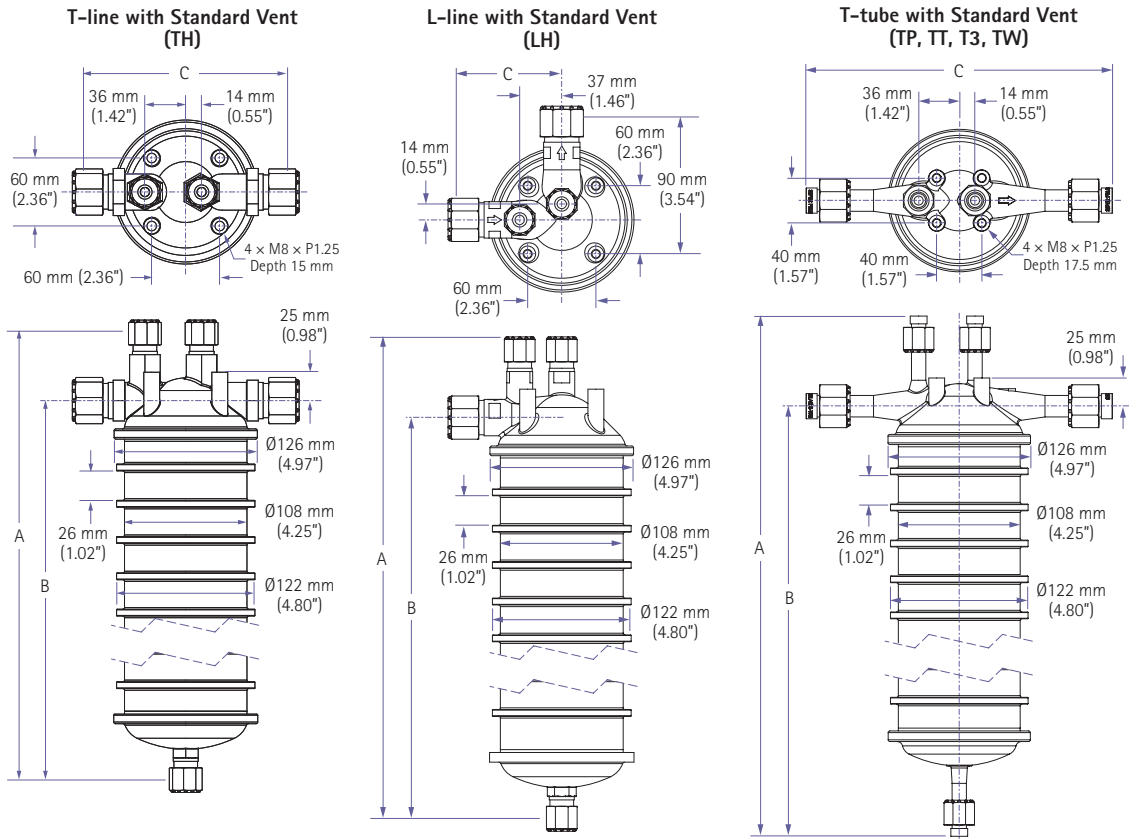
Retention Rating
 R = 40 µm

Fluorogard RS Chem-Line™ I and Chem-Line II Disposable Filters

Dimensions

These drawings represent the range of Chem-Line I disposable filters. Refer to the accompanying tables for specific dimensional information.

CHEM-LINE I DISPOSABLE FILTERS WITH STANDARD VENT



Nominal Dimensions for Chem-Line I with Standard Vent – T-Line

Disposable Type	Inlet/ Outlet	Vent/ Drain	Length A (Overall Height)	Length B (Bottom Fitting to Centerline Inlet Fitting)	Length C (Inlet to Outlet)
TH: Super Type Pillar® fittings	3/4"	1/2"	396 mm (15.58")	335 mm (13.19")	180 mm (7.09")

Nominal Dimensions for Chem-Line I with Standard Vent – L-Line*

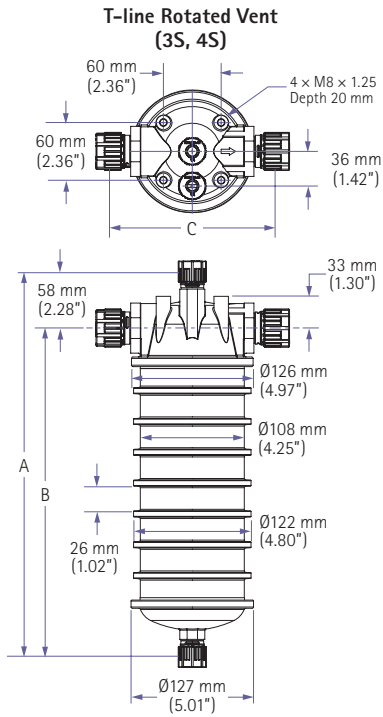
Disposable Type	Inlet/ Outlet	Vent/ Drain	Length A (Overall Height)	Length B (Bottom Fitting to Centerline Inlet Fitting)	Length C (Inlet to Outlet)
LH: Super Type Pillar fittings	3/4"	1/2"	395 mm (15.56")	334 mm (13.15")	90 mm (3.54")

*L-line inlet to outlet length is inlet to centerline of outlet fitting.

Nominal Dimensions for Chem-Line I with Standard Vent – T-Tube

Disposable Type	Inlet/ Outlet	Vent/ Drain	Length A (Overall Height)	Length B (Bottom Fitting to Centerline Inlet Fitting)	Length C (Inlet to Outlet)
TT: T-tube fittings	3/4"	1/2"	436 mm (17.17")	–	–
TP: Super Type Pillar fittings	3/4"	1/2"	450 mm (17.71")	370 mm (14.57")	272 mm (10.69")
T3: Super 300 Type Pillar fittings	3/4"	1/2"	449 mm (17.69")	369 mm (14.53")	268 mm (10.55")
TW: Flowell™ 20 series fittings	3/4"	1/2"	436 mm (17.17")	363 mm (14.29")	252 mm (9.92")

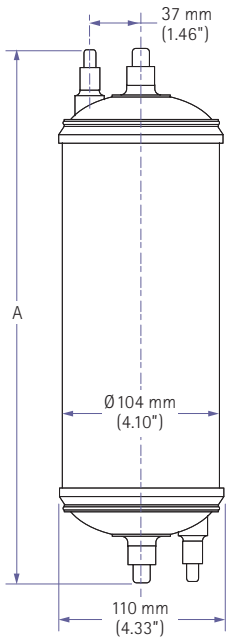
CHEM-LINE I DISPOSABLE FILTERS WITH ROTATED VENT



Nominal Dimensions for Chem-Line I with Rotated Vent – T-Line

Disposable Type	Inlet/Outlet	Vent/Drain	Length A (Overall Height)	Length B (Bottom Fitting to Centerline Inlet Fitting)	Length C (Inlet to Outlet)
3S: Super 300 Type Pillar fittings	3/4"	1/2"	399 mm (15.70")	341 mm (13.43")	172 mm (6.77")
4S: Super 300 Type Pillar fittings	1"	1/2"	399 mm (15.70")	341 mm (13.43")	182 mm (7.17")

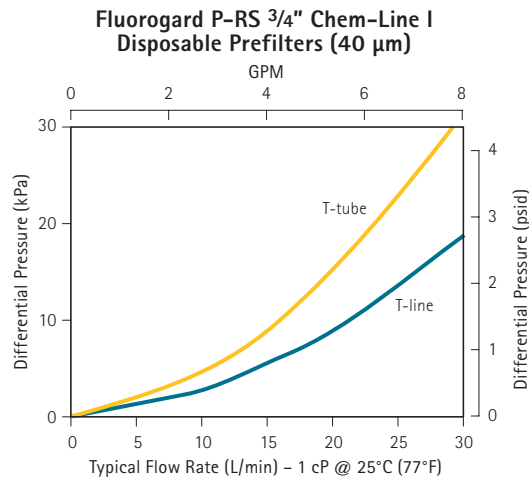
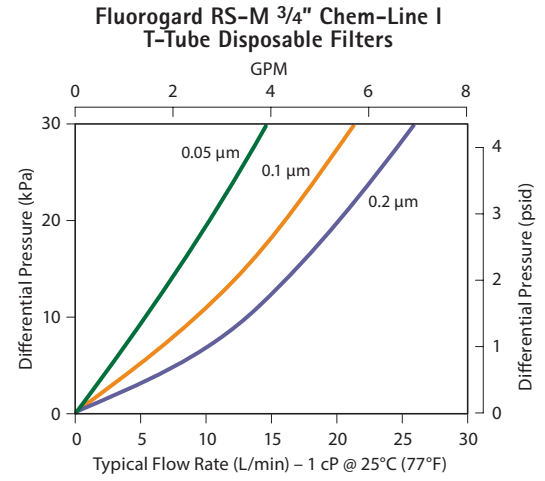
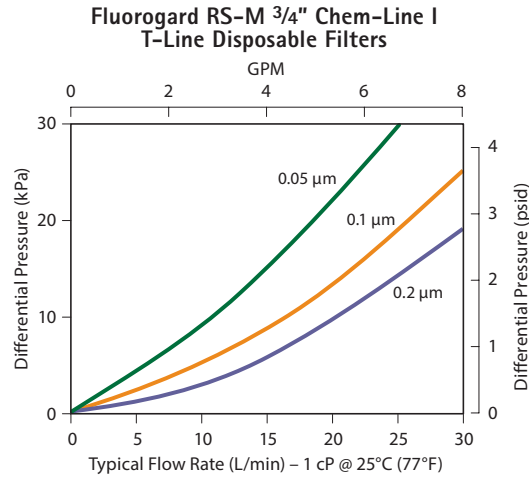
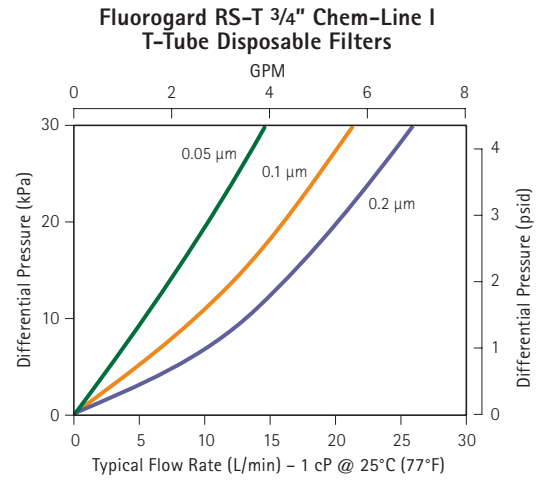
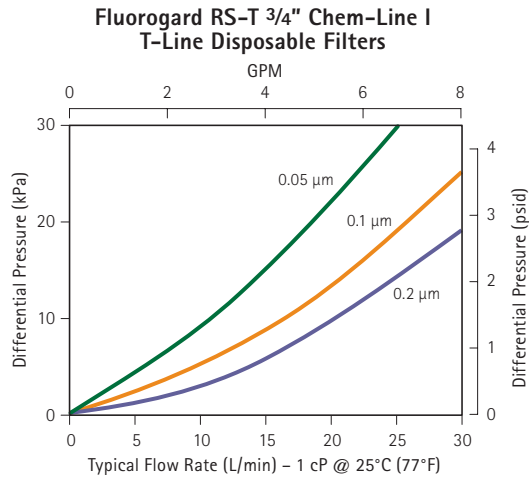
CHEM-LINE II DISPOSABLE FILTERS



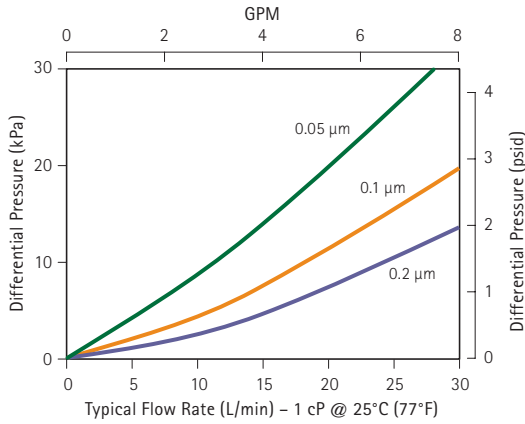
Nominal Dimensions for Chem-Line II Disposable Filters

Super 300 Type Pillar Fittings		
Inlet/ Outlet	Vent/ Drain	A
3/4"	1/4"	350 mm (13.76")
1"	1/4"	383 mm (15.07")

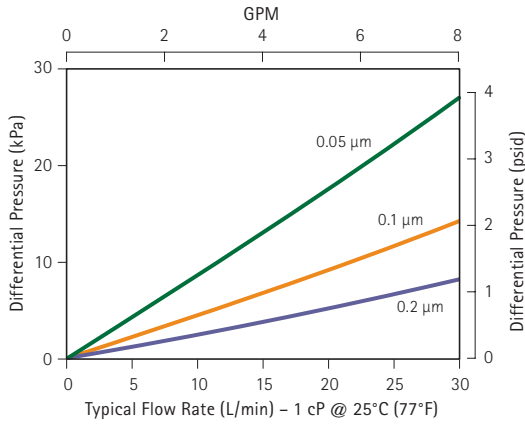
Performance Data



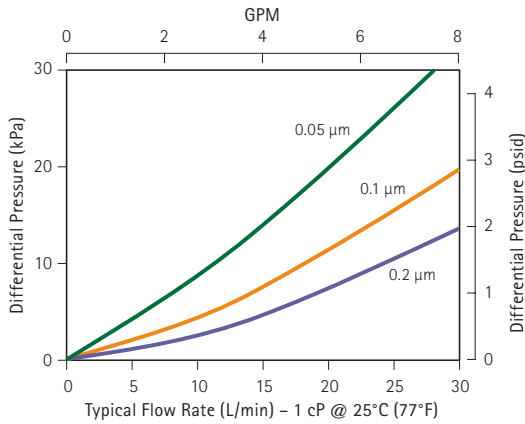
Fluorogard RS-T 3/4" Chem-Line II Disposable Filters



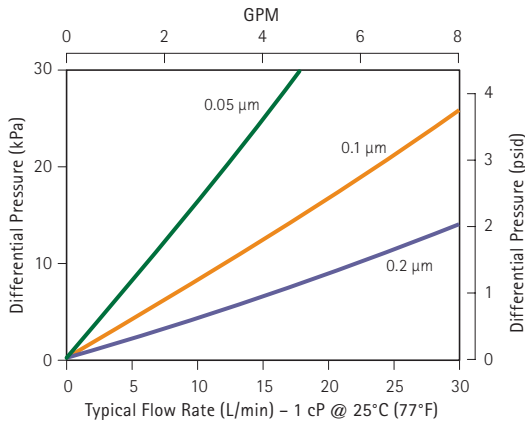
Fluorogard RS-T 1" Chem-Line II Disposable Filters



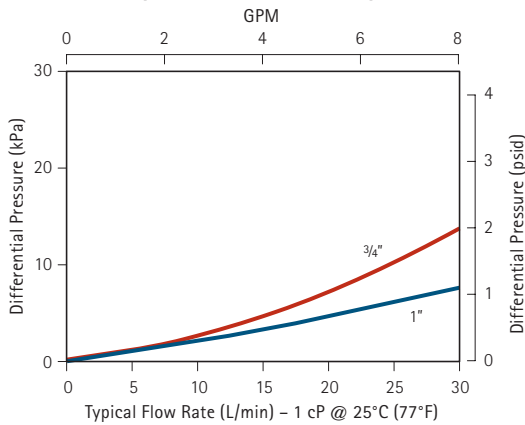
Fluorogard RS-M 3/4" Chem-Line II Disposable Filters



Fluorogard RS-M 1" Chem-Line II Disposable Filters



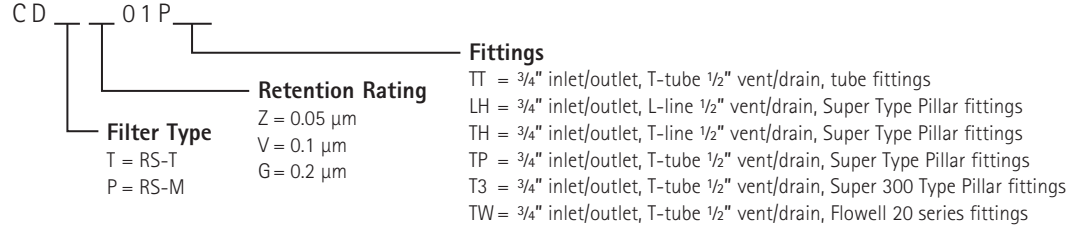
Fluorogard P-RS 3/4" Chem-Line II Disposable Prefilters (40 µm)



Ordering Information

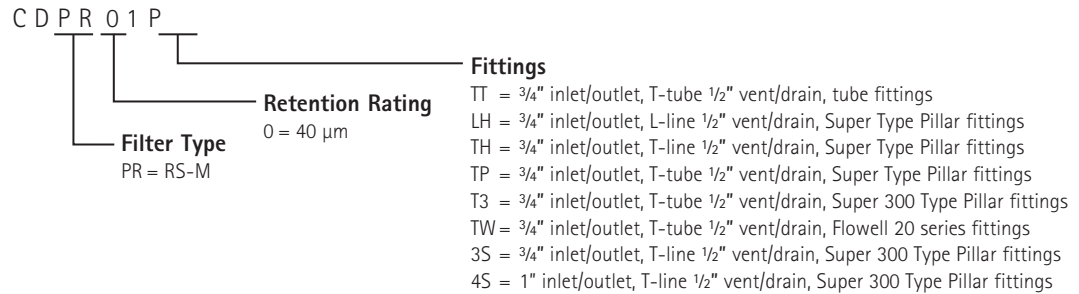
Fluorogard RS-T and RS-M Chem-Line I Disposable Filters

Part Number



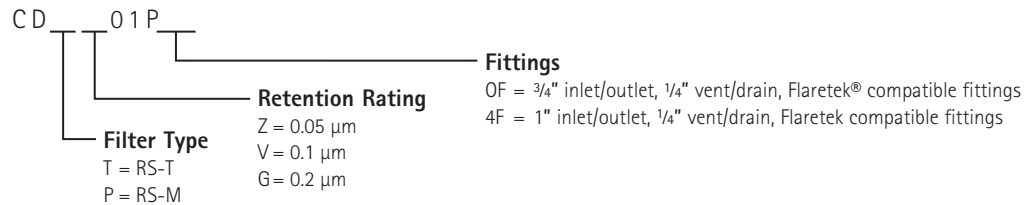
Fluorogard P-RS Chem-Line I Disposable Filters

Part Number



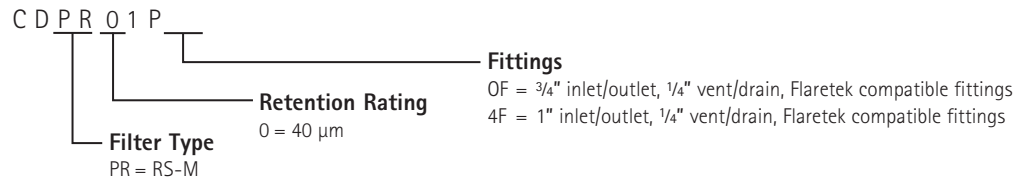
Fluorogard RS-T and RS-M Chem-Line II Disposable Filters

Part Number



Fluorogard P-RS Chem-Line II Disposable Filters

Part Number



For More Information

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