

Sample Filters

Miniature Disposable Filter Units Constructed of Nylon and PVDF

Prevent cross-contamination of samples

Pressure ratings up to 125 psig (8.62 barg)

Temperature to 275°F (135°C)

Completely disposable, constructed of recyclable plastics

Sample Filters

Models 9922-05, 9933-05, 4433-05 and 9900-05

The 99XX-05 models are the smallest Disposable Filter Units with 11.7 ml internal volume. These models are used in low flow gas or liquid sampling applications, such as liquids to specific-ion analyzers or gases to personal samplers. The model 9900-05-BK has a color indicating feature, which turns the cartridge red when saturated with oil. The model 4433-05 has 1/4" and 3/8" Barb Connections molded into the inlet/outlet ports.

Models 9922-11, 9933-11, and 8800-12

Models 9922-11, 9933-11, and 8800-12 are used for applications similar to the smaller DFUs (Models 9922-05 and 9933-05) which require greater solids holding capacity and can tolerate the increased retention time.

Model 8833-11

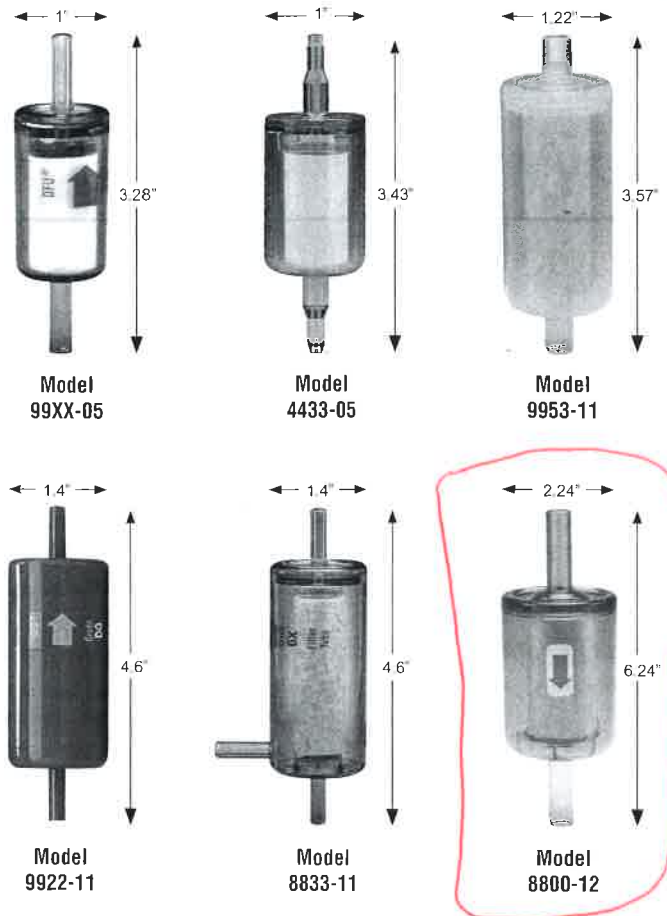
These Disposable Filter Units are used as continuous coalescing filters with a third port serving as the drain, slip-stream, or by-pass port.

Parker Hannifin offers a manual drain valve for removal of coalesced liquids from the Type 8833-11-DX.

Drain Valve: 1/8" NPT (male) x 1/8" ID Tubing.
(Requires fitting part No. 11977). Part No. 20120.

Model 9953-11

This model snaps together for easy filter cartridge changeouts. It is designed primarily for low pressure or mild vacuum applications. It is ideal for capturing samples and perform analysis or record weights over time. If used with a X-tube, it is a very effective silencer to compress inlet noise to small pumps.



Chemical Compatibility Models 9922-05, 9922-11

Suitable: Water or steam to 200°F (135°C); concentrated nitric, sulfuric, and hydrochloric acids; chlorine (gas or liquid); sodium hypochlorite, ethylene oxide (gas or liquid); Freons; ammonia (gas, liquid, or aqueous solutions); hydrogen peroxide (all concentrations); bromine (dry and aqueous solutions); all chlorinated solvents except methylene chloride; all aromatic and aliphatic solvents; all alcohols and glycols; aniline; phenol.

Limited Use: Acetone, MEK, dioxane, furfural, methylene chloride.

Unsuitable: Water above 200°F (135°C), THF, DMF, ethylene diamine, chlorosulfonic acid, ethanolamine, pyridine, sulfur trioxide.

Chemical Compatibility Model 9933-11, 8833-11, and 8800-12

Suitable: Water to 158°F (70°C); benzene, toluene, other aromatic hydrocarbons; hydrocarbon solvents and fuels, perchloroethylene; trichloroethylene, nitric acid (to 10%); sulfuric acid (to 40%); hydrochloric acid (to 10%); most salt solutions; sodium and potassium hydroxide (to 50%).

Limited Use: Water at 158°F (70°C); acetone; MEK; acetaldehyde; ammonia (to 25%).

Unsuitable: Water above 176°F (80°C); alcohols; glycols; phenol; aniline; DMF; concentrated acids; chlorine.

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Flow Rates

Water Flow Rate, Gallons per Hour

DFU Model	Volume of Housing Gallons	Liters	Initial Pressure Drop	Grade DQ, DX	Grade CQ, CX	Grade BQ, BX	Grade AQ	Grade AAQ
9922-05	0.003	0.01	1 psi (0.07 bar)	12 (0.76)	10 (0.63)	3 (0.19)	1.5 (0.09)	0.4 (0.03)
4433-05			5 psi (0.34 bar)	30 (1.90)	25 (1.58)	15 (0.95)	7.3 (0.46)	1.9 (0.12)
9933-05			1 psi (0.07 bar)	18 (1.14)	15 (0.95)	5 (0.34)	2.5 (0.16)	0.6 (0.04)
9922-11	0.0005	0.02	5 psi (0.34 bar)	45 (2.84)	37 (2.33)	26 (1.64)	12 (0.76)	3.1 (0.20)
9933-11			1 psi (0.07 bar)	54 (3.74)	44 (3.03)	13 (0.90)	6 (0.41)	1.4 (0.10)
8800-12			5 psi (0.34 bar)	129 (8.89)	106 (7.31)	56 (3.86)	26 (1.79)	6.5 (0.45)

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Principal Specifications

Model	9922-05	9900-05	4433-05	9933-05	9922-11	9933-11	8833-11	8800-12	9953-11
Inlet and Outlet Ports	1/4" Tubing	1/4" Tubing	1st Tier/Barb 1/4" Tube 2nd Tier/Barb 3/8" Tube	1/4" Tubing	1/4" Tubing	1/4" Tubing	1/4" Tubing	1/2" Tubing	0.32" OD
Drain	None	None	None	None	None	None	1/4" Tubing	None	None
Material of Construction	PVDF	Nylon	Nylon	Nylon	PVDF	Nylon	Nylon	Nylon	Polypropylene
Filter Cartridge Length	1.25" (3.2 cm)	1.25" (3.2 cm)	1.25" (3.2 cm)	1.25" (3.2 cm)	2.25" (5.7 cm)	2.25" (5.7 cm)	2.25" (5.7 cm)	2.5" (5.71 cm)	2.28" 6.35 cm
Maximum Temperature	275°F (135°C)(1)	230°F (110°C)(1)	230°F (110°C)(1)	230°F (110°C)(1)	275°F (135°C)(1)	230°F (110°C)(1)	230°F (110°C)(1)	150°F (66°C)(1)	125°F (52°C)(1)
Maximum Pressure	125 psig (8.6 barg) (2)	125 psig (8.6 barg) (2)	125 psig (8.6 barg) (2)	125 psig (8.6 barg) (2)	125 psig (8.6 barg) (2)	125 psig (8.6 barg) (2)	125 psig (8.6 barg) (2)	50 psig (3.03 barg) (2) (8)	2 psig (0.14 barg) (2)
Dimensions	1.0"D x 3.25"L (2.5 cm x 8 cm)	1.0"D x 3.25"L (2.5 cm x 8 cm)	1.0"D x 3.43"L (2.5 cm x 8.72 cm)	1.0"D x 3.25"L (2.5 cm x 8 cm)	1.4"D x 4.6"L (3.6 cm x 12 cm)	1.4"D x 4.6"L (3.6 cm x 12 cm)	1.4"D x 4.6"L (3.6 cm x 12 cm)	2.24"D x 6.24"L (5.69 cm x 15.85 cm)	1.22"D x 3.57"L (3.1 cm x 9.07 cm)

Notes:

- 1 At 0 psig
2 At 110°F (43°C)

3 To designate adsorbent in the DAU, insert adsorbent numbers after DAU designation. For example, to obtain a miniature clear nylon DAU

with carbon adsorbent, order 9933-05-000. Adsorbent numbers are listed on page 73.
4 Available only in Q grades.

5 Available in Q or X media.
6 Available only in X media.
7 9953-11 is designed for maximum pressure of 2 psig.

8 Pressure rating in liquid service is 70 PSIG (4.83 barg) maximum.