

Gas and Liquid Sample Filters

Ideal for Low Flow Gas and Liquid Sample Systems

Balston Gas and Liquid Sample Analyzer Filters protect analyzers from sample impurities by removing solids and liquids from gases with 99.9999% efficiency at 0.01 micron. Balston Sample Filters offer liquid filtration to 0.3 micron or lower. They are inert to most any gas or liquid. These filters offer long life between filter element changes.

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

The 99XX-05 models are the smallest disposable filter (DFU) units with 11.7 ml internal volume. These models are used for low flow gas or liquid applications. The model 9900-05-BK has a color indicating feature that turns red when saturated with oil. The 4433-05 model has 1/4" and 3/8" barb connection molded into the inlet/outlet ports.



99XX-05

4433-05

Models 9922-11 and 9933-11

These models are used for applications similar to the smaller disposable filter units. The 9922-11 and 9933-11 are ideal for applications that require greater solids holding capacity and can tolerate the increased retention time.



8833-11

9922-11

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.

Filter Cartridge Description

X-Type Cartridges Used for solids and relatively large amounts of suspended liquids in gases. Provide excellent chemical resistance, temperature resistance to 300°F (150°C), and good mechanical handling properties. These cartridges have thick walls for improved coalescing efficiency. Should be used whenever permitted by housing internal volume. Fluorocarbon Resin Binder.

Q-Type Cartridges Used for solids and trace amounts of liquid in gases. Similar to X-Type cartridges in chemical and temperature resistance. Fluorocarbon Resin Binder.

Retention Efficiency

Microfibre Filter Cartridges	Gas Filtration at 0.01 micron	Liquid Filtration (98% retention)
Grades DX, DQ	93%	25 micron
Grades BX, BQ	99.99%	2 micron
Grade AQ	99.9999+%	0.9 micron
Grade AAQ	99.9999+%	0.3 micron

Principal Specifications

Model #	9922-05	9900-05	4433-05	9933-05	9922-11	9933-11	8833-11
Inlet & 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
Drain	None	None	None	None	None	None	1/4" Tubing
Material of Construction	PVDF	Nylon	Nylon	Nylon	PVDF	Nylon	Nylon
Filter Cartridge Length	1.25" (3.2 cm)	1.25" (3.2cm)	1.25 (3.2cm)	1.25" (3.2cm)	2.25" (5.7cm)	2.25" (5.7cm)	2.25" (5.7cm)
Max. Temperature (1)	275°F (135°C)	230°F (110°C)	230°F (110°C)	230°F (110°C)	275°F (135°C)	230°F (110°C)	230°F (110°C)
Max. Pressure (2)	125 psig	125 psig	125 psig	125 psig	125 psig	125 psig	125 psig
Dimensions	1.0"D x 3.25"L (2.5cm x 8cm)	1.0"D x 3.25"L (2.5cm x 8cm)	1.0"D x 3.43"L (2.5cm x 8.72cm)	1.0"D x 3.25"L (2.5cm x 8cm)	1.4"D x 4.6"L (3.6cm x 12cm)	1.4"D x 4.6"L (3.6cm x 12cm)	1.4"D x 4.6"L (3.6cm x 12cm)

Ordering Information To order, simply select the materials of construction most suitable for your application and filter grade.

Model #	9922-05 (3)	9900-05 (3)	4433-05 (3)	9933-05 (3)	9922-11 (4)	9933-11 (4)	8833-11 (5)
Box of 10 DFUs	9922-05-□	9905-05-□	4433-05-□	9933-05-□	9922-11-□	9933-11-□	8833-11-□

Notes:
 1 At 0 psig
 2 At 110°F (43°C)
 3 Available in Q-type media only
 4 Available in Q and X Type Media
 5 Available in X-type media only

Gas and Liquid Filters

Ideal for Gas Cylinder Filtration

Models 91S6, 95A, 95M, 95S6, 95T

These models are constructed of 316 stainless steel, Monel, PTFE, Aluminum and other specialty materials. These filters are ideal for sampling applications, gas cylinders, and chemical filtration.



91S6, 95A, 95M, 95S6, 95T

Model 53

Model 53 housings are constructed of polypropylene which allows excellent resistance to non-oxidizing acids such as HCL, sulfuric up to 70% saturation, brines, hydrocarbon liquids, alcohols, and concentrated caustic. It is designed for a single LP-200 filter cartridge in 5" and 10" lengths.

Ideal for Chemical and Water Filtration

Model 54

Model 54 housings are used for filtration of water or mildly acidic solutions at temperatures under 100°F. The housings have a polypropylene head and a transparent styreneacrylonitrile bowl.



54/50, 53/50

Filter Cartridge Description
Designed to filter liquids with high solids contents. Have an integral prefilter and an external support structure (flow direction is inside - to - outside).

Retention Efficiency	
LP Cartridges (80% retention)	
Grade 10	75 micron
Grade 20	25 micron
Grade 30	10 micron
Grade 50	1 micron

Principal Specifications

Model #	91S6	95A	95M	95S6	95T	53/18	53/50	54/50
Inlet & Outlet Ports (1)	1/8" NPT	1/8" NPT	1/8" NPT	1/8" NPT	1/8" NPT	3/8" NPT	3/4" NPT	3/4" NPT
Drain Port	1/8" NPT	1/8" NPT	1/8" NPT	1/8" NPT	1/8" NPT	---	---	---
Mat'l of Construction								
Head	316SS (2)	Aluminum	Monel	316SS (2)	Teflon (2)	Polypropylene	Polypropylene	Polypropylene
Bowl	316SS (2)	Aluminum	Monel	316SS (2)	Teflon (2)	Polypropylene	Polypropylene	SAN
Internals	316SS (2)	Aluminum	Teflon	316SS (2)	Teflon (2)	Polypropylene	Polypropylene	Polypropylene
Seals	Viton	Viton	Viton	Viton	Teflon/Viton	EPR	EPR	EPR
Max. Temperature	400°F (204°C)	200°F (93°C)	400°F (204°C)	400°F (204°C)	300°F (149°C)	125°F (52°C)	125°F (52°C)	125°F (52°C)
Max. Pressure	1500 psig (3)	2500 psig (3)	5000 psig (3)	5000 psig (3)	150 psig (3)	125 psig (4)	125 psig (4)	125 psig (4)
Shipping Weight	1 lb. (0.4 kg)	0.5 lb. (0.2 kg)	1 lb. (0.4 kg)	1 lb. (0.4 kg)	0.5 lb. (0.2 kg)	3 lb. (1.4 kg)	4 lb. (1.8 kg)	4 lb. (1.8 kg)
Dimensions	1.5"D x 3.7"L (3.8 cm x 9.4 cm)	1.8"D x 4"L (4 cm x 10 cm)	1.8"D x 4"L (4 cm x 10 cm)	1.8"D x 4"L (4.6 cm x 10.2 cm)	1.8"D x 4"L (4.6 cm x 10.2 cm)	5"D x 6.6"L (11 cm x 17 cm)	5"D x 12"L (13 cm x 30 cm)	5"D x 12"L (13 cm x 30 cm)

Ordering Information To order, simply match pipe size, pressure capacity, and materials of construction of one of the above filter housing options to your application. Final step: select filter grade based on required filtration efficiency and order a box of 10 filters.

Model #	91S6	95A	95M	95S6	95T	53/18	53/50	54/50
Support Core Required for Liquid Filtration	Included	Included	Included	Included	Included	N/A	N/A	N/A
Filter Cartridges (box of 10)	050-11-□	050-11-□	050-11-□	050-11-□	050-11-□	LP-200-18-□	LP-200-50-□	LP-200-50-□
Use only these filter types	Q	Q	Q	Q	Q	---	---	---
See page 6 for description of Q-type filter								

- Notes:
- Also available with 1/4" NPT ports. To order with 1/4" NPT ports, use designation Model 95S6-1/4, etc.
 - Constructed of materials which comply with NACE Specification MR-01-75. Request certificate of compliance.
 - Maximum pressure ratings are for temperatures to 200°F (93°C). Please consult factory for maximum pressure ratings at elevated temperatures.
 - Maximum pressure ratings are for temperatures to 125°F (52°C). Please consult factory for maximum pressure ratings at elevated temperatures.