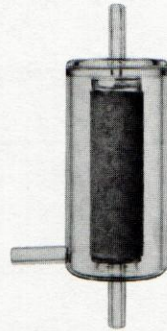


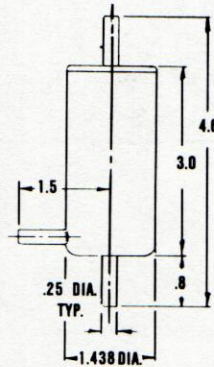
# Balston® Miniature Disposable Filters

## Completely Remove Oil and Dirt from Compressed Air

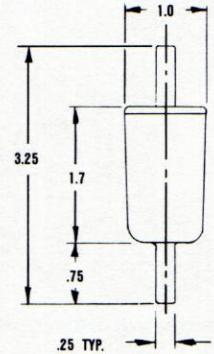
- **Efficiency**  
**93% - 99.99%**  
**at 0.1 micron**
- **125 psig pressure**  
**rating**
- **Up to 14.6 SCFM**  
**flow rate**
- **Choice of liquid**  
**draining or oil**  
**absorption**  
**models**



Type 8833-11-DX  
Type 8833-11-BX



Type 9900-05-BK



## Why You Should Use Balston Disposable Filter Units

Balston Disposable Filter Units are ideal final filters to remove oil, water and dirt from compressed air to protect air logic devices and other contamination-sensitive end uses for compressed air. Each Balston DFU® contains a Microfibre® Filter Tube permanently bonded into a rugged nylon housing. When equipped with Grade BX or BK filter tube, the DFU has a filtration efficiency of 99.99% for liquid or solid contaminants 0.1 micron or larger. Balston DFU's are supplied in two designs:

- A three-port unit (inlet, outlet, and drain) for draining of coalesced oil and water. The Type 8833-11 DFU is used when a significant quantity of liquid is present.
- A two-port unit for absorption of oil and water. Since the Type 9900-05 DFU has no provision for draining coalesced liquid, the unit must be replaced when the filter tube is saturated with oil, as indicated by the appearance of red color on the surface of the filter tube. The Type 9900-05 DFU is used when only a trace quantity of liquid is present.

The nylon housing of the Type 8833-11 and Type 9900-05 DFU's is recommended for use with compressed air and many other gases. Avoid use with alcohols, glycols, phenol, analines, DMF, strong acids and chlorine. If additional chemical and solvent resistance is required, please refer to Bulletin P-200, page 6, for PVDF (polyvinylidene-fluoride) DFU's.

## Selection of Filter Tube Grade

**Type 8833-11:** Use 8833-11-DX for all general purpose applications and when a large quantity of liquid is expected. Use 8833-11-BX for critical final filtration applications, when a relatively small quantity of liquid is expected. In general, 8833-11-BX should be used only with a 8833-11-DX prefilter.

**Type 9900-05:** Supplied only with 9900-05-BK color indicating absorption filter. Use as a final filter when only a trace quantity of liquid is expected.

# Balston Disposable Filter Units

## Principal Specifications

	Port Size	Material (body)	Material (filter tube)	Maximum Pressure	Maximum Temperature at 0 psig
Type 8833-11 and Type 9900-05	1/4" Tubing	Nylon	Borosilicate glass microfibers	125°F-125 psig	250°F

## Retention Efficiency

Grade	Efficiency for 0.1 Micron Particles and Droplets
DX	93%
BX, BK	99.99%

## Flow Rates

DFU Type	Air flow at 2 psi drop, standard cu. ft. per min. (SCFM) at indicated line pressure						
	2 psig	20 psig	40 psig	60 psig	80 psig	100 psig	125 psig
8833-11-DX	1.8	3.6	5.8	8.0	10.0	12.0	14.6
8833-11-BX	0.9	1.8	2.9	4.0	5.0	6.0	7.3
9900-05-BK	0.4	0.8	1.3	1.8	2.2	2.7	3.3

## Ordering Information

For assistance, call 800-343-4048

Box of 3 DFU's	3/8833-11-DX	3/8833-11-BX	—
Box of 10 DFU's	8833-11-DX	8833-11-BX	9900-05-BK

## Installation Information

### For connections to pressure pipe or tubing

Compression fittings for 1/4" O.D. tubing may be obtained from the following manufacturers: Hoke, Inc. ("Gyrolok"); Crawford Fitting Co. ("Swagelok"); Parker-Hannifin Corp. ("CPI"); Legris, Inc. (push-on fittings); Jaco Mfg. Co. (plastic fittings)

The following brass fittings seal by O-ring compression and may be completely recovered and reused when changing filters. They may be purchased from Balston:

Connector	1/4" tubing to 1/4" NPT, female Part No. 11970
Connector	1/4" tubing to 1/4" tubing, Part No. 11971
Elbow	1/4" tubing to 1/8" NPT female (for manual drain on Type 8833-11) Part No. 11972

### For connections to low pressure plastic tubing

Tubing with 1/4" ID may be slipped over the DFU end fittings and held with tubing clamps. Balston supplies plastic barbs to connect the DFU to smaller diameter plastic tubing. The connection is suitable for pressures to 50 psig.

DFU to 1/16" ID tubing	Part No. 14000 (bag of 20 barbs)
DFU to 1/8" ID tubing	Part No. 14001 (bag of 20 barbs)

## Drain

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

Drain Valve	1/8" NPT (male) x1/8" ID tubing (Requires elbow part 11972) Part No. 20-125
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**BALSTON**<sup>®</sup>  
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