

# Becker\* FD-1500 Filter Dryer

Provides Filtration and Moisture Protection for all Becker Control Instrumentation

# fact sheet

The Becker Model FD-1500 filters and dehydrates supply gas for all Becker control instrumentation. The FD-1500 provides superior filtration and dehydration with 110 in<sup>2</sup> of 10µ filtering media and 2.0 lbs. of silica gel. The FD-1500 incorporates an easy-to-replace spin on cartridge made up of a high quality, high capacity nylon and fiberglass filter element reinforced with stainless steel mesh. All FD-1500s are fully hydrotested to one and a half times the working pressure to ensure pressure vessel integrity.

### Product Features

- Protects from excessive moisture, freezing and dirt
- Two-stage filter technology prevents clogging while providing 10 micron filtration
- Hydrostatically tested to 2,250 psig
- Incorporates 2" pipe mount bracket standard
- Features a spin-on replacement cartridge for ease of change out
- Machined (square) end of housing provides ease of internal access with an ordinary adjustable wrench
- High capacity silica gel absorbs up to 2.0 lbs. of moisture
- Superior capacity filter element



Figure 1 - Becker FD-1500 Filter Dryer



Figure 2 - FD-1500 Filter-Dryer (exploded view)  
Exploded view of the FD-1500 illustrates the unit's simplicity.

Table 1 - Specifications

<b>MAOP</b>	1500 psig
<b>Flow Capacity</b>	50 SCFM (1.4 m <sup>3</sup> /hr)
<b>Filtration</b>	10 µ nominal (110 in <sup>2</sup> filtration area)
<b>Dehydration</b>	2 lbs. (0.9 kg) silica gel moisture absorption
<b>Dimensions</b>	20" (508 mm) length 4-1/2" (114 mm) diameter
<b>Mounting</b>	2" pipe mount standard for all loose equipment
<b>Weight</b>	29 lbs (13 kg)

Table 2 - FD-1500 Filter Dryer Components

Item	Description	Part Number
1	Upper filter housing flange	21-3012
2	Filter housing O-ring	95-2652
3	Filter cartridge O-ring	95-2653
4	Replacement cartridge (includes filter cartridge O-ring, filter housing O-ring, and compatibility adapter)	21-3088
5	Lower filter housing	21-3021
6	Drain needle valve	20-2926
7	Compatibility adapter	21-3090

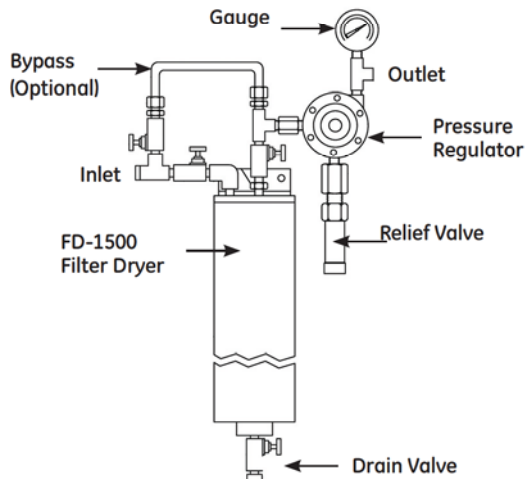


**Table 3 - FD-1500 Materials**

Item	Description	Material
1	Upper filter housing flange	Carbon steel
2	Filter housing O-ring	Buna-N
3	Filter cartridge O-ring	Buna-N
4	Fine filtration assembly (second stage)	Nylon
5	Replacement filter cartridge tube	PVC
6	Drying desiccant	Silica gel
7	Coarse filter (first stage)	Fiberglass
8	Lower filter housing	Carbon Steel
9	Drain needle valve	316 Stainless steel

**Table 4 - FD-1500 Port Definitions**

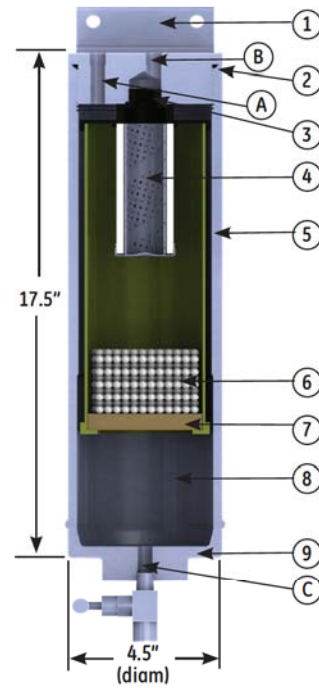
Item	Description	Port Size
A	Inlet	1/4" FNPT
B	Outlet	1/4" FNPT
C	Drain	1/4" FNPT



**Figure 3 -** Becker FD Series Gas Supply Systems Incorporate the FD-1500. The FD-1 gas supply system provides an economical supply gas system with complete regulation, filtration, dehydration, and relief in a single package.

### Ordering Information

Item	Part Number
FD-1500 Filter Dryer (complete assembly)	21-3010
FD-1500 Filter Dryer replacement cartridge (includes filter cartridge O-ring, filter housing O-ring, and compatibility adapter)	21-3088



**Figure 4 - FD-1500 (cutaway view)**  
Cutaway view of the FD-1500 illustrates main components and inner workings. The FD-1500 is equipped with a high quality screen-reinforced nylon and fiberglass filtering media to prevent contaminants from damaging downstream instrumentation. Additionally, the FD-1500 carries enough desiccant drying media to absorb up to 2.0 lbs. of entrained moisture. The FD-1500 assembly contains a simple replacement cartridge that incorporates filtration and drying in one convenient module.

### Compatibility Adapter

Use the FD-1500 Compatibility Adapter to install FD-1500 Replacement Filter Cartridges in other popular OEM filter/dryer housings. Take advantage of GE's two-stage filtration system and reduce your spare filter inventory without having to replace your existing filter housing. Simply thread the adapter onto a Becker FD-1500 Replacement Filter Cartridge and it is ready to be installed in your existing filter housing. Contact your local sales representative for compatibility.



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