

FEP-1000/1300-CH Flexflo® Pilot Provides Superior Performance for High Pressure Setpoint Applications Up To 1300 psig (8963 kPa)

FEP-CH Series Flexflo® Pilot

The FEP-1000-CH and FEP-1300-CH Series Pilots are a reversible pressure control pilots (seat & nozzle) that are used in conjunction with Flexflo® Regulators to provide pressure control. The FEP-1000/1300-CH is typically utilized for high pressure setpoint applications up to 1300 psig (8963 kPa). The FEP-CH features superior lockup and droop capabilities over other manufacturer's flexible element pilots. Applications include pressure reduction, monitor regulators, backpressure control, and relief valve. The FEP-1000/1300-CH features a friction-free design, sensitive sensing diaphragm, high sensitivity and minimal droop. Additionally, note that the FEP-1000/1300-CH Series Flexflo® Pilot is a submersible design that is ideally-suited for vault applications that fill with water.



Figure 1.0 - FEP-1000-CH Flexflo® Pilot



Figure 2.0 - FEP-1300-CH Flexflo® Pilot



Figure 3.0 - Model FEP-1000-CH Flexflo® Pilot Installed on Flexflo® Regulator

The FEP-1000-CH above is installed on a Model 900TE Flexflo® Regulator for downstream pressure control. The FEP-1000-CH and Flexflo® Regulator provide the ideal combination for high pressure setpoint regulation. The Model FEP-1000-CH provides setpoints up to 1000 psig (6895 kPa). The Model FEP-1300-CH provides setpoints up to 1300 psig (8963 kPa). The FEP-1000-CH and FEP-1300-CH may be utilized for pressure reduction, relief service and backpressure control. All Becker FEP Pilots are field reversible to allow for use in all application configurations.

FEP-1000/1300-CH Pilot Features

- Superior Droop Characteristics
- High Pressure Setpoint in excess of most manufacturer's Pilots
- Model FEP-1000-CH Pilot setpoints to 1000 psig (6895 kPa)
- Model FEP-1300-CH Pilot setpoints to 1300 psig (8963 kPa)
- Superior Lockup Performance Minimized Overpressure Occurrence in Downstream Pressure Control Applications
- Superior Setpoint Accuracy
- Blanketed Control Spring Not Exposed to Atmosphere
- Dampened Sensing Chamber Eliminates Pulsation Effects in Turbulent Installations
- Control Spring May be changed without disturbing any diaphragms
- Friction free design eliminates sliding o-rings and enhances pilot sensitivity
- Pneumatic Remote Setpoint Capable with pressure loading of Pilot (REM Adaptation)
- Mechanical Remote Setpoint Capable with Addition of Remote Setpoint Module (RSM Option)
- Pressure Equipment Directive compliant under "SEP" parameters of PED Directive of 1999

Legend

- Inlet Pressure (Upstream Pressure) P_1
- Outlet Pressure P_0
- Jacket Pressure P_j
- Sensing Pressure (Downstream Pressure) P_2

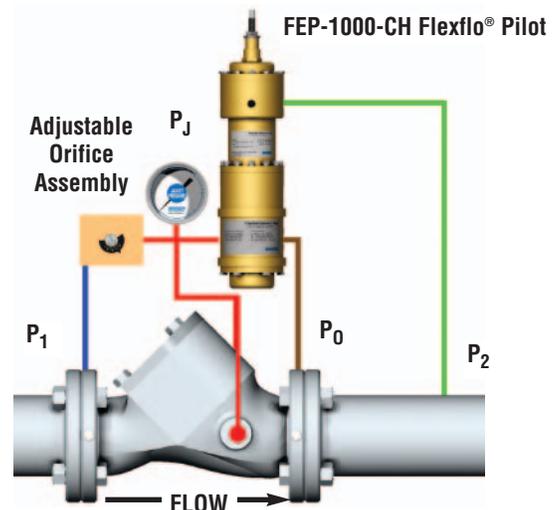


Figure 4.0 - FEP-1000-CH Flexflo® Pilot for Downstream Pressure Control

The FEP-1000-CH is shown combined with a Model 900TE Flexflo® Regulator for downstream pressure control. The FEP-1000-CH and Model 900TE are ideal for applications that require superior accuracy. The FEP-1000-CH provides unparalleled accuracy, minimal droop, and excellent lock-off characteristics. The FEP-1000-CH allows flexible element regulators such as the Model 900TE Flexflo® to close off flow with minimal overshoot of pressure. This is of particular importance in dead-end system that are equipped with relief valves.

Figure 5.0 - Model FEP-1000-CH Flexflo® Pilot

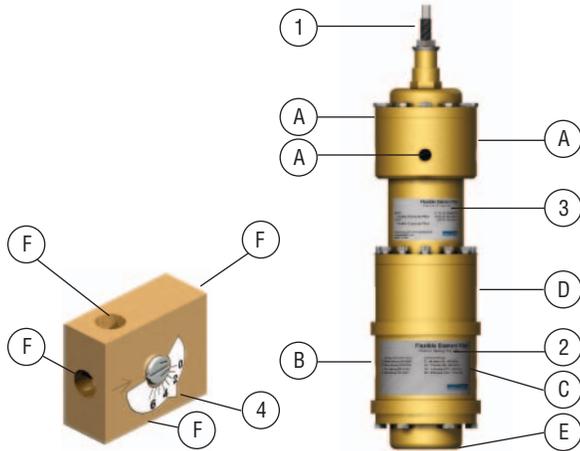


Figure 5.0 - Model FEP-1300-CH Flexflo® Pilot

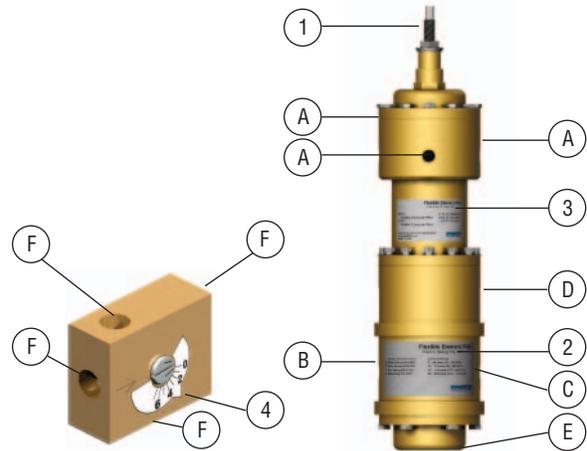


Table 1.0 - Model FEP-1000/1300-CH Flexflo® Pilot Component Identification

Components	Item ID
Setpoint Adjustment Screw	1
Product ID Tag	2
Control Spring Tag	3
Adjustable Orifice Assembly	4

Notes:

- Adjustable Orifice Assembly is available with three different "rotor" sizes: Small, Medium and Large. Standard Issue Adjustable Orifice is "small."
- Sensing Ports "A" are common
- Adjustable Orifice Assembly connections to left of rotor adjustment are common

Specifications

Control Range: Model FEP-1000-CH
550 - 1000 psig (3792 - 6895 kPa)
Model FEP-1300-CH
800 - 1300 psig (5516 - 8964 kPa)

Available Action: Pressure Reducing (Normally Open)
Backpressure/Relief (Normally Closed)

Available Models: Model FEP-1000-CH, Model FEP-1000-CH-NC
Model FEP-1300-CH, Model FEP-1300-CH-NC

Operating Temperature: -20°F to 160°F (-29°C to 71°C)

Maximum Δ P: 1000 psid (6895 kPa)

Weight: 6.0 lbs (2.7 kg) Model FEP-1000-CH

Dimensions: 16.75" Ht. x 4.0 " Dia.
(425 mm Ht. x 102 mm Dia.)

Installation Orientation: Vertical Installation Recommended

Compatible Regulators: Flexflo® Regulator Models 900TE, 83, and 80
Also compatible with other manufacturer's products, contact Becker Regulators for additional information

Table 2.0 - Model FEP-1000/1300-CH Flexflo® Pilot Port Specifications

FEP-1000/ 1300 CH Port	Port Size	Maximum Operating Pressure		Port ID
		Model FEP-1000-CH	Model FEP-1300-CH	
Sensing	1/4" FNPT	1000 psig (6895 kPa)	1300 psig (8964 kPa)	A
Inlet	1/4" FNPT	1480 psig (10,204 kPa)	1480 psig (10,204 kPa)	B
Outlet	1/4" FNPT	1000 psig (6895 kPa)	1300 psig (8964 kPa)	C
Atmospheric Reference	1/4" FNPT	ATM	ATM	D
Atmospheric Reference	1/4" FNPT	ATM	ATM	E
Adj Orifice Connections	1/4" FNPT	1480 psig (10204 kPa)	1480 psig (10204 kPa)	F

Notes:

- Reference Figure 5.0 and 6.0 for identification of ports.
- Pressure differential between Sensing and Inlet must not exceed 1000 psig (6895 kPa).
- FEP-CH may be adapted to accept Remote Pneumatic Remote Setpoint capable with pressure loading Pilot (adaptation).

Improve Performance by Retrofit!

Optimum performance is achieved by pairing the FEP-CH with genuine Becker Flexflo® Regulators. If you already have flexible element regulators in service, the addition of a FEP-CH can improve performance. Becker FEP-CH Pilots are compatible with most manufacturer's flexible element regulators. Consult Becker Regulators for more information.

Compatible Regulators*

- Fisher 298
- Fisher 310
- Fisher 399
- Fisher 1098
- Fisher EZH
- Fisher EZR
- Becker Flexflo®
- American Meters Axialflow
- American Meters Radial Flow Valve
- Mooney Flowgrid®
- Mooney FlowMax®
- Tattarini, Fiorentinni, Gorta

* The listed names include trademark(s) of the respective companies.

** Contact Becker Regulators for information on additional compatibilities

How It Works:

FEP-1000/1300-CH configuration shown is for Pressure Reduction (Downstream Pressure Control) in conjunction with a Becker Model 900TE Flexflo® Regulator. Increasing downstream pressure will cause the FEP-1000/1300-CH to close the Flexflo® Regulator and restrict flow. Initially, the downstream pressure is above the setpoint of the FEP-1000/1300-CH. With the Flexflo® jacket pressure equal to the upstream pressure, the Flexflo® Regulator remains fully closed (Fig. 7.1). As downstream pressure falls to a pressure equal to setpoint of the FEP-1000/1300-CH pilot, the Flexflo® Regulator jacket pressure will begin to decrease. When the Flexflo® jacket loading pressure falls below the upstream pressure, the Flexflo® Regulator will begin to open and flow gas (Fig. 7.2). If the downstream pressure falls to a point nearly equal to the upstream pressure, the Flexflo® Regulator will fully unload the jacket pressure. With the jacket pressure equal to the downstream pressure, the Flexflo® Regulator is fully open (Fig. 7.3). The upstream pressure will be slightly higher than the downstream pressure do the inherent "cracking pressure" associated with the rubber element (tube) of the Flexflo® Regulator.

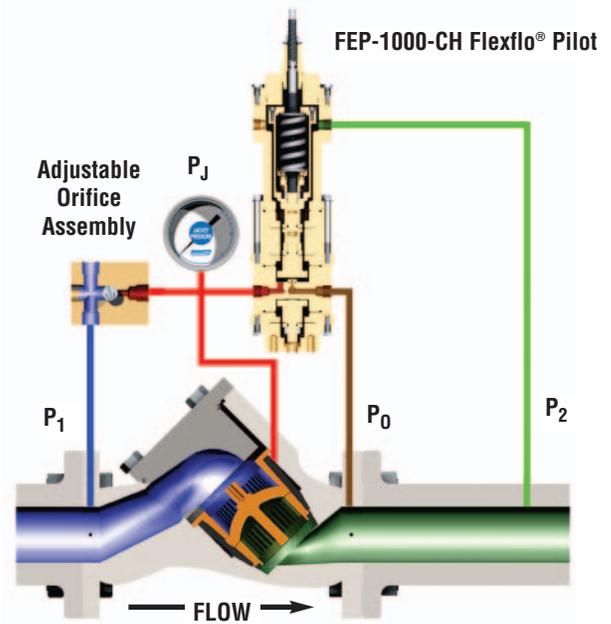


Figure 7.1 Flexflo® Regulator Fully Closed

When the downstream pressure is above the setpoint of the FEP-CH, the Flexflo® jacket pressure will be equal to the upstream pressure. The Flexflo® Regulator remains fully closed.

Legend

- Inlet Pressure (Upstream Pressure) P_1
- Outlet Pressure P_0
- Jacket Pressure P_j
- Sensing Pressure (Downstream Pressure) P_2

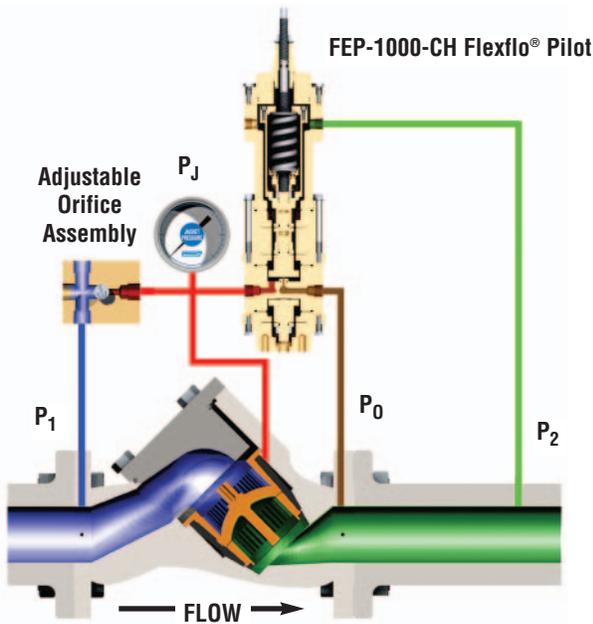


Figure 7.2 Flexflo® Regulator Throttling

When the Flexflo® jacket loading pressure falls below the upstream pressure, the Flexflo® Regulator will begin to open and flow gas. At setpoint equilibrium, the FEP-CH will load the jacket of the Flexflo® Regulator to maintain a constant desired downstream pressure.

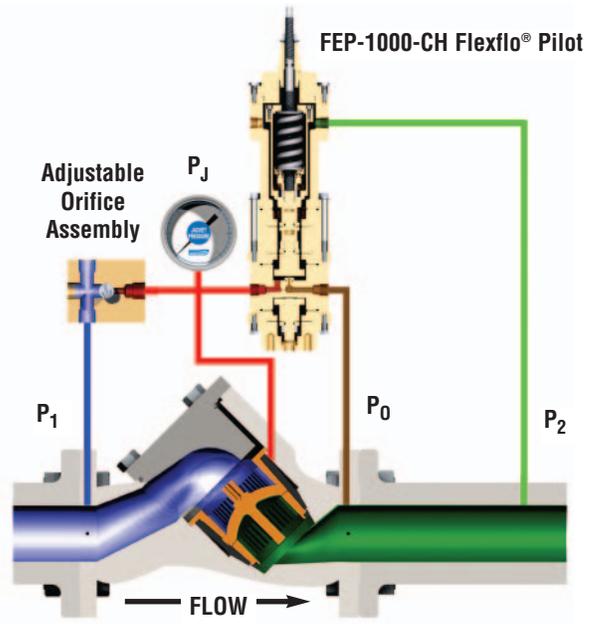


Figure 7.3 Flexflo® Regulator Fully Open

When the downstream pressure falls to a point nearly equal to the upstream pressure, the Flexflo® Regulator will fully unload the jacket pressure. With the jacket pressure equal to the downstream pressure, the Flexflo® Regulator is fully open. The upstream pressure will be slightly higher than the downstream pressure do the inherent "cracking pressure" associated with the rubber element (tube) of the Flexflo® Regulator.

Figure 8.0 - Becker Model FEP-1000-CH Flexflo® Pilot Exploded View

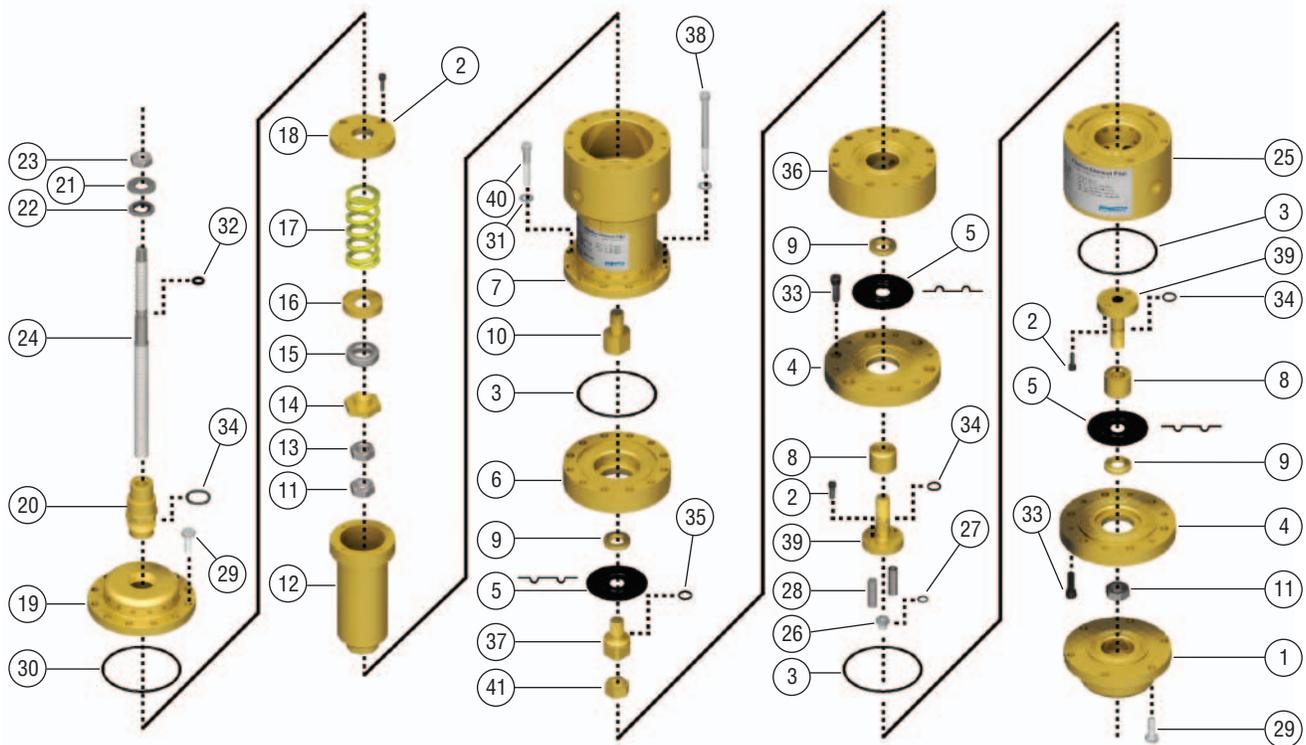


Table 3.0 - Becker Model FEP-1000-CH Flexflo® Pilot Parts Identification

Item	Description	Material	Qty	Part Number
1	Bottom Cartridge	AL2024	1	30-7082
2	8-32 x 1/2 SHCS	Alloy	8	98-3269
3	O-Ring-145 ¹	Buna-N	3	95-2665
4	Body Spacer	AL2024	2	30-7078
5	Conv. Diaphragm w/hole ²	Buna-N	3	30-7011
6	Adapter Blocker	AL2024	1	30-7016
7	Spring Cartridge	AL2024	1	30-7023
8	Piston Spacer	AL2024	2	30-7080
9	Small Washer	AL2024	3	30-7014
10	Thread Extension	AL2024	1	30-7015
11	1/2 x 20 Jam Nut	316SS	2	98-3056
12	Inner Tube	Steel	1	30-7003
13	1/2 -20 LH Jam Nut	316SS	1	98-3213
14	Bearing Nut	AL2024	1	30-7001
15	Thrust Bearing	Steel	1	25-1062
16	Standard Bearing Case	AL2024	1	30-7006
17	Control Spring (Yellow) ⁵	316SS	1	25-1306
18	Tube Cap	AL2024	1	30-7007
19	Cartridge Cap	AL2024	1	30-7040
20	Seal Neck	AL2024	1	30-7009
21	7/16 Flat Washer	316SS	1	98-3181

Item	Description	Material	Qty	Part Number
22	7/16 Thread Seal ¹	Steel	1	30-7017
23	7/16-20 Jam Nut	316 SS	1	98-2500
24	Adjusting Screw	316 SS	1	30-7022
25	Single Body	AL2024	1	30-7077
26	Nozzle ³	316 SS	1	25-1029
27	O-Ring 010 ¹	Buna-N	1	95-2609
28	Pilot Post	316 SS	2	25-1023
29	1/4-20 x 3/4 HHCS	316 SS	18	98-3137
30	O-Ring 141 ¹	Buna-N	1	95-2671
31	.250 x 500 Washer ¹	Nylon	2	98-3227
32	O-Ring 108 ¹	Buna-N	1	95-2672
33	1/4-20 x 3/4 SHCS	316 SS	12	98-3285
34	O-Ring 115 ¹	Buna-N	1	95-2670
35	O-Ring 012 ¹	Buna-N	3	95-2615
36	Bottom Spacer	AL2024	1	30-7058
37	Small Piston	AL2024	1	30-7010
38	1/4-20 x 3" SHCS	316 SS	6	98-3231
39	Piston w/Buna-N Seat ¹	316SS	2	30-7079
40	1/4-20 x 1 1/2 SHCS	316SS	6	98-3229
41	1/2-20 Special Nut	AL2024	1	30-7081
42	Single Orifice Assem. ⁴	AL2024	1	25-1559

Notes:

1. These items are included in standard FEP-1000/1300 Repair Kit
2. Diaphragms must be installed with convolute in orientation shown
3. 3/32" Nozzle is standard issue nozzle. Nozzle is also available in 1/8" diameter. 3/32" Nozzle is utilized for Becker Flexflo® Regulators up to 6" bore. 1/8" Nozzle utilized for Flexflo® Regulators larger than 6" bore. 1/8" Nozzle utilized for liquid applications.
4. Single Orifice Assembly not shown
5. See Table 4.0 page 5 for control spring selection.

Table 4.0 Becker Model FEP-1000/1300 Flexflo® Pilot Control Spring Ranges

FEP Model Number	Control Range (psig/kPa)	Control Spring Color	Control Spring Part Number	Setpoint Change/Revolution of Setpoint Screw	Max. Remote Setpoint Range (Discrete) ²	Max. Remote Setpoint Range (Analog) ³	Repair Kit Part Number
FEP-100-CH FEP-1000-CH-NC	8.5-68 psig kPa	Gold	25-8236	3.6 psig kPa			30-9005
FEP-100-CH FEP-1000-CH-NC	42-210 psig kPa	Beige	25-8238	12.6 psig kPa			30-9005
FEP-100-CH FEP-1000-CH-NC	85-300 psig kPa	Burgundy	25-8339	19.2 psig kPa			30-9005
FEP-100-CH FEP-1000-CH-NC	230-500 psig kPa	Pink	25-8240	40.7 psig kPa			30-9005
FEP-100-CH FEP-1000-CH-NC	550-1000 psig 3792-6895 kPa	Yellow	25-1306	144 psig/rev 990 kPa/rev	700 psig 4827 kPa		30-9005
FEP-1300-CH	800-1300 psig	Gray	25-1562	227 psig/rev	900 psig		30-9005

Notes:

1. FEP model number indicates normally-open logic utilized for applications such as downstream pressure control
2. FEP-NC model number indicates normally-closed logic utilized for applications such as relief valves and backpressure regulation
3. These units should only be used for applications that require high gain. Consult Becker prior to specifying these models.
4. Maximum Remote Setpoint Range is based upon Model SM-1140 Remote Setpoint Module with maximum motor range of 5.8 revolutions. See RSM brochure for additional details
4. Maximum Remote Setpoint Range reported applicable to units with discrete (pulse) input signal. Remote Setpoint Modules with analog signal have a Maximum Remote Setpoint Range equal to full Control Range of the FEP-CH Flexflo® Pilot



Figure 9.1 - Model FEP-1000 (Pressure Reducing)



Figure 9.2 - Model FEP-1000-NC (Backpressure/Relief)



Figure 9.3 - Model FEP-1300 (Pressure Reducing)



Figure 9.4 - Model FEP-1300-NC (Backpressure/Relief)

Maximum Performance and Versatility of the Model FEP-30 Flexflo® Pilot may be Achieved when Combined with these Flexflo® Regulators and Accessories



**Model 900TE Flexflo® Regulator
Top-Entry Design**

The Model 900TE Flexflo® Regulator is a self-contained, rigid, heavy-duty, pilot-operated pressure regulator that may be used in both gas and liquid applications. The 900TE design features a simple, top-entry design for easy in-line maintenance. The 900TE features a cast steel body with integral flanged end connections. Multiple trim configurations are available from 1.5 in. (40 mm) bore to 6 in. (150 mm) bore.

Size Range:	1.5 in.(40mm) to 6 in. (150mm)	Body Materials:	Cast Carbon Steel
Pressure Ratings:	ANSI 150-600	Core Material:	316SS
Shutoff Class:	Bubble Tight ¹	Operating Temperatures:	-20°F to +212°F (-29°C to 100°C) ²
End Connections:	RFFE (Standard) Weld End (Standard)	Trim Materials:	Nitrile or Hydrin (Standard) Other elastomers available upon request



**Model 83 Flexflo® Regulator
Compact Design**

The Model 83 Flexflo® Regulator is a self-contained, pilot-operated pressure regulator that may be used in both gas and liquid applications. The Model 83 design features a compact, flangeless body design that is constructed entirely of stainless steel. Unique construction of the Model 83 provides for a slim profile designed to mount between standard ANSI flanges. Multiple trim configurations are available from 1 in. (25 mm) bore to 6 in. (150 mm) bore.

Size Range:	1 in.(25mm) to 6 in. (150mm)	Body Materials:	Stainless Steel
Pressure Ratings:	ANSI 150-600	Core Material:	316SS
Shutoff Class:	Bubble Tight ¹	Operating Temperatures:	-40°F to +212°F (-40°C to 100°C) ²
End Connections:	Flangeless (1.5 in. thru 6 in. sizes) Screwed Ends (1 in. Size)	Trim Materials:	Nitrile or Hydrin (Standard) Other elastomers available upon request



**Model 80 Flexflo® Regulator
High Capacity Design**

The Model 80 Flexflo® Regulator is a self-contained, pilot-operated pressure regulator that may be used in both gas and liquid applications. The Model 80 design features larger bore sizes for high capacity applications. Additionally, note that the Model 80 design is perfectly suited for severe service applications that will destroy other regulators. Construction of the Model 80 provides for a rugged design to mount between standard ANSI flanges. Multiple trim configurations are available from 4 in. (100 mm) bore to 12 in. (300 mm) bore.

Size Range:	4 in.(100mm) to 12 in. (300mm)	Body Materials:	Carbon Steel
Pressure Ratings:	ANSI 150-600	Core Material:	Carbon Steel
Shutoff Class:	Bubble Tight ¹	Operating Temperatures:	-40°F to +212°F (-40°C to 100°C) ²
End Connections:	RFFE	Trim Materials:	Nitrile or Hydrin (Standard) Other elastomers available upon request

¹ Shutoff Class published for new Flexflo Regulators. Possibility for leakage does exist after length of service based upon severity of flow conditions.

² Operating Temperatures further limited by Flexflo® Tube selection. See specific Flexflo® Regulator brochure for specific information.



Becker Model FT-35 Filter

The Becker Model FT-35 (T-Type Filter) filters supply gas for use upstream of Flexflo® Pilots and other Flexflo® instrumentation. The FT-35 body is manufactured from Zinc-Plated Steel for rugged durability. The FT-35 is a compact filter device ideal for use with Flexflo® instrumentation when dehydration is not necessary. The FT-35 cartridge filter element is made up of high density polyethylene providing a large surface area and filtration to 35 microns. The element can be readily replaced by depressurizing; removing the bottom closure; replacing the filter and reassembling (hand tight) while still in the line. Becker Model FT-35 Filters are PED Compliant (Restrictions apply).

Available Input Signals

Analog Input (Current): 4-20mA (24 VDC or 120 VAC Auxiliary Power Supply Required)

Mounting: Includes all necessary mounting for specific Becker Flexflo Pilot. Contact Becker Regulators for Adaptation to other manufacturer's

Discrete Input (Pulse): ± 24 VDC, 120 VAC

Manual Override: RSM equipped with declutchable override for manual operation

Electrical Connections: 1/2" FNPT



FD-1500 Filter-Dryer

The Becker Model FD-1500 Filter Dryer filters and dehydrates supply gas for use upstream of Flexflo® Pilots and other Flexflo® instrumentation. Designed for use with all pneumatic instrumentation, the FD-1500 Filter Dryer provides superior filtration and dehydration with 110 square inches of 10 micron filtering media and 2.0 pounds 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 Becker's FD-1500's are fully hydrotested to 2.5 times the working pressure to ensure the integrity of the pressure vessel. Becker Model FD-1500 Filter-Dryers are PED Compliant (Restrictions apply).

MAOP: 1500 psig (10, 340 kPa)

Dimensions: 4.88 in. (124 mm) length x 1.75 in. (44 mm) diameter

Max Temp. 200°F (93°C)

Filtration: 35µ nominal

Mounting: Unit is supported by tubing/pipe fitting due to low weight and compact size

Inlet/Outlet Port: 1/4" FNPT

Drain: 1/4" FNPT with plug

Weight: 2.0 lbs (0.91kg)



FD-1500 Filter-Dryer

The Becker Model FD-1500 Filter Dryer filters and dehydrates supply gas for use upstream of Flexflo® Pilots and other Flexflo® instrumentation. Designed for use with all pneumatic instrumentation, the FD-1500 Filter Dryer provides superior filtration and dehydration with 110 square inches of 10 micron filtering media and 2.0 pounds 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 Becker's FD-1500's are fully hydrotested to 2.5 times the working pressure to ensure the integrity of the pressure vessel. Becker Model FD-1500 Filter-Dryers are PED Compliant (Restrictions apply).

MAOP: 1500 psig (10, 340 kPa)* all units
Hydrotested to 2250 psig (15,510 kPa)

Drain: 1/4" FNPT with needle valve and hex plug

Max Temp. 200°F (93°C)

Dimensions: 20 in. (508 mm) length x 4.5 in. (4mm) diameter

Filtration: 10µ nominal (110in² filtration media)

Mounting: Panel Mount or 2" Pipe Mount

Dehydration: 2 lbs. (0.9kg) silica gel water absorption

Weight: 29 lbs (13 kg)

Inlet/Outlet: 1/4" FNPT



Pilot Pre-Heater

For Flexflo® applications where freezing may be a problem, the Pilot Pre-Heater is an ideal solution. The Pilot Pre-Heater provides continuous, flameless heat to Flexflo® Pilots and Flexflo® instrumentation without external power sources, except at heater startup. The catalytic technology operates at a temperature of 600°F to 800° F (316°C to 427°C), ensuring a safe, reliable source of heat. Pilot Pre-Heaters are available for new applications or for easy retrofit to applications where freeze-up may be a problem. Startup voltages are available in both ±12 VDC and 110 VAC and are available with both CGA and FM approval ratings. Unit includes all necessary regulation and components for easy installation.

Fuel Gas: Natural Gas or LP Gas
MAOP: Heated Gas Stream - 2500 psig (17,237 kPa)
Supply Gas Regulator - 50 psig (345 kPa)

Available Ratings: CGA Class 1, Div. 2, Group D (Explosion Proof)

FM Class 1, Div. 2, Group D Explosion Proof

Inlet/Outlet: 1/4" FNPT

Case Dimensions: 12 in. x 12. in x 6 in.

Starting Voltage ±12 VDC or 120 VAC

(305)mm x 305mm x 152mm)

Case Material: 316 Stainless Steel

Weight: 110.0 lbs (5.0 kg)

Table 5.0 - Selection Guidelines for Becker Flexflo® Regulator Products & Accessories

	Model FEP-30	Model 829-S1	Model FEP-200	Model FEP-600	Model FEP-175-CH	Model FEP-600-CH	Model FEP-1000-CH	Model FEP-1300-CH	Model 826	Notes
Applications										
Downstream Pressure Control	•	•	•	•	•	•	•	•	•	
Monitor Regulator (Overpressure)	•	•	•	•	•	•	•	•	•	
Backpressure Control	•	•	•	•	•	•	•	•	•	
Relief Valve	•	•	•	•	•	•	•	•	•	
Power Plant Pressure Control	•	•	•	•	•	•	•	•	•	1
Flow Control	•	•	•	•	•	•	•	•	•	2
Setpoint Range										
Maximum Pilot Setpoint	30 psig	600 psig	200 psig	600 psig	175 psig	600 psig	1000 psig	1300 psig	1480 psig	
Minimum Pilot Setpoint	40 in. WC	3 psig	5 psig	30 psig	1 psig	3 psig	135 psig	800 psig	7 psig	
Compatible Flexflo Regulators										
Model 80 Regulator	•	•	•	•	•	•	•	•	•	
Model 83 Regulator	•	•	•	•	•	•	•	•	•	
Model 900TE Regulator	•	•	•	•	•	•	•	•	•	
Compatible Accessories										
RSM Remote Setpoint Module	•	•	•	•	•	•	•	•	•	3
FT-35 Filter	•	•	•	•	•	•	•	•	•	
FD-1500 Filter Dryer	•	•	•	•	•	•	•	•	•	
Pilot Pre-Heater										4
I/P Transducer										5
VRP-SB-CH Pilot										6

Notes:

- For Power Plant Pressure Control, Model FEP-CH provides optimum performance.
- Flow Control with Model 826 DMV requires I/P Transducer and electronic interface with flow computer.
- RSM Remote Setpoint Modules available with either 24 VDC discrete pulse input or 4-20 mA analog input.
- Pilot Preheater recommended for applications where gas temperature may drop near freezing temperatures caused by pressure drop across regulator. Power Gas Preheaters applicable for natural gas only.
- Model 826 DMV requires additional component to function. I/P Transducer may be utilized to allow electronic interface to Flexflo for remote pressure control or flow control.
- Model 826 DMV requires additional component to function. Model VRP-SB-CH may be utilized to allow pressure control with ZERO droop and near ZERO lockup.



Figure 10.0 - Becker Model FEP-1300-CH Flexflo® Pilot

The Becker Model FEP-1300-CH provides pressure control setpoints as high as 1300 psig (8964 kPa) when combined with Flexflo® Regulators. The FEP-1300-CH is shown here installed on Model 900TE Flexflo® Regulator and is equipped with a Model FT-35 Filter. The FEP-1000-CH and FEP-1300-CH supercede the Becker Model 820 & 830 Flexflo® Pilots. The FEP-1000-CH and FEP-1300-CH are available in both pressure reducing and backpressure/relief configurations. The newer model high pressure setpoint FEP's are simpler and more reliable than previous high pressure (820/830) Flexflo® Pilots.

***CAUTION: This information is intended as a guideline for application of Becker Regulator products. Becker Regulators strongly recommends consulting Becker Regulators Engineering prior to application of any product.**



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