

**"Apollo" Valves**

# SUBMITTAL SHEET

## 129FC Series

Fire System Pressure Control Valve



Job Name:	
Job Location:	
Engineer:	
Contractor:	
Tag:	
PO Number:	
Representative:	
Wholesale Distributor:	



### DESCRIPTION

The Model 129FC automatically reduces high pressure in building riser pipe to a pressure that can be easily handled by the components it supplies.

The normally open, spring loaded pilot, sensing downstream pressure, responds to changes in pressure and causes the main valve to do the same. The net result is a constant modulating action of the pilot and main valve to hold the downstream pressure constant.

### FEATURES

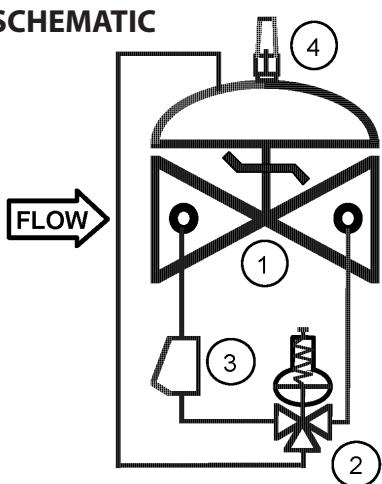
- Maintains constant discharge pressure despite variations in demand or inlet pressure. Eliminates pressure fall off
- Easily adjusted for discharge pressures ranging from 50-165 psi
- Fully operated by line pressure; no external power source required
- Soft seat for drip-tight closure

- Easily cleaned, repaired and adjusted without removal from the line
- Underwriters Laboratories listed, Control Number 1855
- Diaphragm assembly guided top and bottom is the only moving part of the main valve
- UL / ULC Listed for pressure control service in sizes 1.5" thru 8", globe or angle configuration
- No packing glands or stuffing boxes to service
- Horizontal or vertical mounting in all sizes
- ANSI Flanged Class 150 or Class 300
- Grooved end configuration available on 1.5" thru 6"
- Screwed end configuration available on 1.5", 2", 2.5" and 3"
- Wide range of materials available
- Factory tested

### SIZING

Because the 129FC can experience a wide range of flow rates-ranging from zero, when the system is not being used, to the flow required by a single sprinkler, or full system demand-prop-er sizing is important. Use the smallest available valve that is consistent with the following maximum demand chart.

### SCHEMATIC



### SIZES

Globe or Angle - 1.5", 2", 2.5", 3", 4", 6", 8"

### MAX WORKING PRESSURE

1.5" - 3" Screwed End: 300psi

1.5" - 6" Grooved End: 300psi

1.5" - 8" 150#ANSI: 250psi

1.5" - 8" 300# ANSI: 300psi

### TEMPERATURE RANGE

Buna-N (Elastomers): 32° F to 180° F

Valve Size	Max Flow (gpm)
1.5"	115
2"	210
2.5"	300
3"	460
4"	800
6"	1800
8"	3100

### COMPONENTS (as shown on the schematic diagram)

No.	Component
1	<b>Model 65 Basic Control Valve</b> a hydraulically-operated, diaphragm-actuated, globe or angle valve which closes with an elastomer-on-metal seal.
2	<b>Model 1390 Pilot</b> , a three-way, normally-open pilot valve which senses downstream pressure under its diaphragm and balances it against an adjustable spring load. An increase in downstream pressure tends to make the pilot close.
3	<b>Model 159 Y-Strainer</b> . The strainer protects the pilot system from solid contaminants in the line fluid.
4	<b>Model 155 Visual Indicator</b> (optional), useful for indication of valve's position at a glance.

Apollo Valves, Manufactured by **Conbraco Industries, Inc.**

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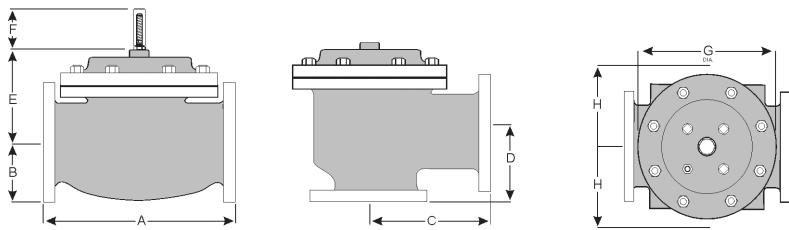


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### DIMENSIONS (in.)

DIM	END CONN.	1-1/2	2	2-1/2	3	4	6	8
A	SCREWED	8-3/4	9-7/8	10-1/2	13	--	--	--
	GROOVED	8-3/4	9-7/8	10-1/2	13	15-1/4	20	--
	150# FLGD	8-1/2	9-3/8	10-1/2	12	15	17-3/4	25-3/8
	300# FLGD	8-3/4	9-7/8	11-1/8	12-3/4	15-5/8	18-5/8	26-3/8
B	SCREWED	1-7/16	1-11/16	1-7/8	2-1/4	--	--	--
	GROOVED	1*	1-3/16	1-7/16	1-3/4	2-1/4	--	--
	150# FLGD	2-5/16 - 2-1/2	3	3-1/2	3-3/4	4-1/2	5-1/2	6-3/4
	300# FLGD	2-5/8 - 3-1/16	3-1/4	3-3/4	4-1/8	5	6-1/4	7-1/2
C	SCREWED	4-3/8	4-3/4	6	6-1/2	--	--	--
	GROOVED	4-3/8	4-3/4	6	6-1/2	7-5/8	--	--
	150# FLGD	4-1/4	4-3/4	6	6	7-1/2	10	12-11/16
	300# FLGD	4-3/8	5	6-3/8	6-3/8	7-13/16	10-1/2	13-3/16
D	SCREWED	3-1/8	3-7/8	4	4-1/2	--	--	--
	GROOVED	3-1/8	3-7/8	4	4-1/2	5-5/8	--	--
	150# FLGD	3	3-7/8	4	4	5-1/2	6	8
	300# FLGD	3-1/8	4-1/8	4-3/8	4-3/8	5-13/16	6-1/2	8-1/2
E	ALL	6-3/4	6-3/4	7-7/8	7-3/4	9-3/4	11-1/2	14-1/2
F	ALL	3-7/8	3-7/8	3-7/8	3-7/8	3-7/8	3-7/8	6-3/8
G	ALL	6	6-3/4	7-11/16	8-3/4	11-3/4	14	21
H	ALL	10	11	11	11	12	13	14

Apollo pressure control valves are UL/ULC Listed for mounting in the horizontal or vertical position. Space should be taken into consideration when mounting valves and their pilot systems.

A routine inspection & maintenance program should be established and conducted yearly by a qualified technician.

### FACTORY CODE

129	G	002	020	1	1	1	3
MODEL NUMBER	VALVE TYPE/ CONNECTION FULL PORT	SERIES EXTENSION	VALVE SIZE - FULL PORT	BODY & BONNET MATERIAL	SEAT RING MATERIAL	PILOT, FITTINGS, TUBE	ELASTOMERS
129 = Standard	A = Angle/Flanged ANSI CLS 150 B = Angle/Flanged ANSI CLS 300 C = Angle/Threaded (1-1/2" - 3") E = Angle/Grooved Ends (1-1/2" - 6") G = Globe/Flanged ANSI CLS 150 H = Globe/Flanged ANSI CLS 300 J = Angle/Threaded (1-1/2" - 3") V = Angle/Grooved Ends (1-1/2" - 6")	OFC	030 = 3" 040 = 4" 060 = 6" 080 = 8"	1 = Ductile Iron Red Enamel Epoxy Coated	1 = Bronze B61	Code Pilot Ftgs Tube 1 BZ BRS CU	1 = Buna-N

#### HOW TO ORDER YOUR VALVE

When ordering please provide:

- Valve Size -Globe or Angle -Pressure Class -Adjustment Range
- Special Requirements / Installation requirements.

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