

## SUBMITTAL SHEET

### 69ELF Series

# Pressure Reducing Valve

The Apollo Lead Free\* Pressure Reducing Valve Model PRE (69ELF Series) is designed to conserve water and protect water distribution systems by automatically reducing elevated supply pressures. The dezincification resistant bronze body, stainless steel adjusting screw and dielectric polymer cage provide maximum corrosion resistance. Designed for easy in-line servicing with simple cartridge removal.

#### Specifications:

The PRV is designed to reduce pressure to a more functional level within its adjustment range. A gauge must be used to verify setting. To increase the set pressure, loosen the locknut and turn the adjusting screw clockwise. To decrease the set pressure, turn the adjusting screw counter-clockwise. Open a fixture to purge excess pressure, then verify setting. Re-tighten the locknut. Allow for some fall-off from set pressure during flow conditions.

#### Features:

- Balanced Piston Design
- Sealed Cage for vault installations
- Large Area Integral Stainless Steel Strainer
- High Flow / high efficiency design
- NPT, Solder, PEX, CPVC, Push & Press Connections
- Control Pressure Ranges: 15-75 psi and 75-150 psi
- Single Union, Double Union and Less Union Configurations Available
- 100% Manufactured in USA – ARRA Compliant
- SS Adjusting Screw & Nut
- Built-in Thermal Expansion Bypass
- Modular Seat Disc and Strainer Cartridge
- Factory Tested and Preset at 60 psi

#### Performance Rating:

- Maximum Supply Pressure: 400 psig
- Working Temperature Range: 33°F – 180°F

#### Approvals:

- NSF/ANSI 372 Lead Free
- ASSE 1003
- CSA B356
- NSF/ANSI 61 Water Quality
- IAPMO/UPC

#### Installation:

Prior to installing the Pressure Reducing Valve (PRV), all debris must be flushed from the line. Isolate the section where the PRV is to be installed by closing the shut-off valves. The PRV is designed to be installed in a piping system with the arrow on the valve pointing in the direction of flow. It can be mounted vertically or horizontally.

\*LEAD FREE: The wetted surfaces of this product shall contain no more than 0.25% lead by weighted average. Complies with Federal Public Law 111-380. ANSI 3rd party approved and listed.

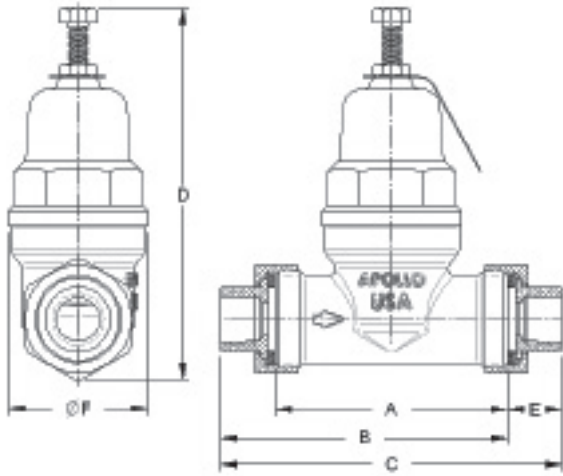
Job Name:	
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Engineer:	
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#### Standard Materials List:

<b>Body:</b>	Lead Free* Bronze, UNS 89836
<b>Union Nut:</b>	Brass, ASTM B16
<b>Tailpiece:</b>	Lead Free* Brass, UNS C27451
<b>Screen:</b>	Stainless Steel
<b>Cap:</b>	Noryl™
<b>Diaphragm:</b>	NSF-Grade EPDM
<b>Seat Disc:</b>	NSF-Grade EPDM
<b>Adjusting Screwnut:</b>	Stainless Steel
<b>Spring:</b>	Stainless Steel, ASTM A228
<b>O-Rings:</b>	NSF-Grade EPDM

# VALVES



## Flow Capacity:

Pipe Size	Fall-Off (psi)	Pressure Differential (psi) GPM		
		A	B	C
1/2"	10	10	13	16
	15	13	18	22
	20	17	23	29
	30	22	29	36
3/4"	10	16	21	26
	15	20	27	32
	20	24	32	40
	30	29	38	48
1"	10	14	31	37
	15	22	37	42
	20	28	41	46
	30	36	43	50

Note: Flow curves are based on static conditions of 100psi inlet pressure and 50 psi outlet pressure. Pressure differential is the difference between the supply pressure and adjusted outlet pressure measured in the static (closed) condition. Pressure fall-off is the decrease in downstream regulated pressure as the flow increases.

## Dimensions:

Size (in.)	Connect Type	Dimensions (in.)						Single Union Wt.	Double Union Wt.
		A	B	C	D	E	F		
1/2"	Thread	3.625	4.500	5.375	6.000	0.625	2.750	2.4	2.75
	Solder	3.625	4.500	5.500	6.000	0.500	2.750	2.4	2.75
	PEX	3.625	4.500	5.500	6.000	0.625	2.750	2.4	2.75
	CPVC	3.625	4.250	5.000	6.000	0.500	2.750	2.4	2.75
3/4"	Thread	3.625	4.500	5.500	6.000	0.625	2.750	2.4	2.75
	Solder	3.625	4.500	5.500	6.000	0.750	2.750	2.4	2.75
	PEX	3.625	4.625	5.625	6.000	0.625	2.750	2.4	2.75
	CPVC	3.625	4.500	5.500	6.000	0.625	2.750	2.4	2.75
1"	Thread	3.625	4.625	5.750	6.000	0.625	3.375	2.4	2.86
	Solder	3.625	4.625	5.750	6.000	0.875	3.375	2.4	2.86
	PEX	3.625	4.750	6.000	6.000	0.750	3.375	2.4	2.86
	CPVC	3.625	4.750	6.000	6.000	0.938	3.375	2.4	2.86

## Flow Chart:

