USA MANUFACTURER
SINCE 1933

FLOMATIC® VALVES
High Quality Valves Built To Last...

DIRECT ACTING & HIGH CAPACITY

PRESSURE REDUCING VALVES

MODEL C150E, C150ET & C150EHF

Flomatic is a valve manufacturer certified under ISO 9001-2015 and ISO 14001-2015 quality and environmental management systems.

DIRECT ACTING - HIGH CAPACITY
PRESSURE REDUCING VALVES

Direct Acting Pressure Reducing Valves (PRV's) are designed to automatically regulate a higher upstream pressure to a reduced regulated constant outlet pressure. The benefits of having a PRV installed in a system are more functional pressure, including water conservation and energy savings. Ultimately a PRV will help extend the life of a system allowing for more efficient use of appliances. At higher unregulated pressure much of the water flowing through the system is wasted, thus a PRV is extremely beneficial.

The Flomatic Series C150E accomplishes this by utilizing an adjustable spring-loaded diaphragm cartridge assembly that maintains constant outlet pressure regardless of water flow.

Flomatic's Series 150E unleaded bronze valve body is designed with multiple optional end connections. The standard Model C150E is available in a size range from 1/2" thru 2" supplied for flexibility with a FNPT Union end on valves inlet and female NPT with an option of moving the union nut from inlet to outlet. This is an exclusive standard installation flexibility feature of the Model C150E.

The standard adjustable spring range is 15 to 75 PSI factory pre-set to 50 PSI. An optional spring allows for a higher adjustment range of 15 to 150 PSI. Pressure Max: 400 Psi and Temp Max: 180^0 F (80^0 C).

APPLICATIONS

- Residential Applications
- Commercial Applications
- OEM Applications

ADVANTAGES

- Water Conservation and Reduce Water Loss
- Loss Energy Savings and extended use of appliances
- Water and Sewer Cost Savings
- Reduces Water Hammer

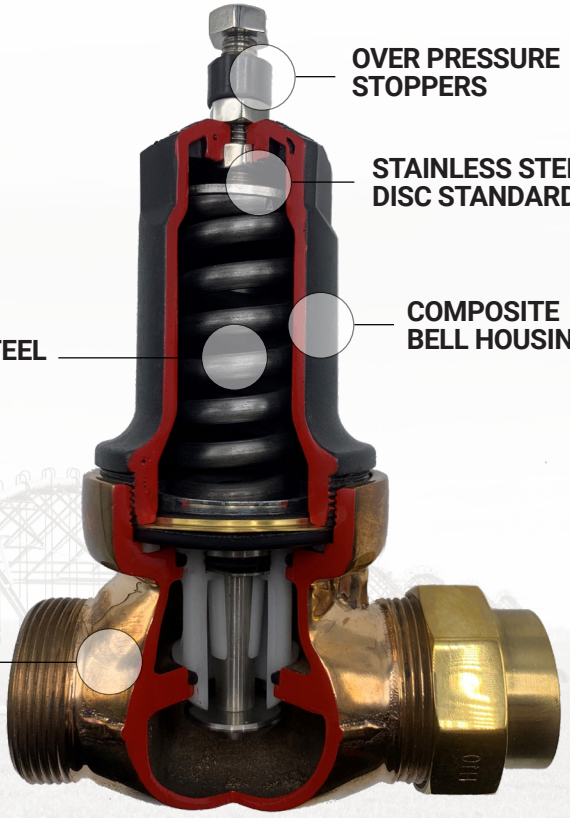
LEAD FREE NSF/ANSI 61

IAPMO R&T

3 Year Warranty

FEATURES & BENEFITS

- High flow capacity globe style body design
- Certified ASSE 1003 Listed
- NSF/ANSI 61 Certified
- Single union with FNPT tailpiece standard, inlet & outlet both threaded to accept female union ends (other options available)
- Replaceable acetal cartridge with integral stainless steel strainer
- Built-in bypass prevents buildup of excessive system pressure caused by thermal expansion
- Nylon reinforced Buna-N diaphragm
- Optional spring ranges available for 15-150 PSI
- May be installed in any position
- Short lay length makes for easy retrofit
- No special tools required
- Serviceable in-line



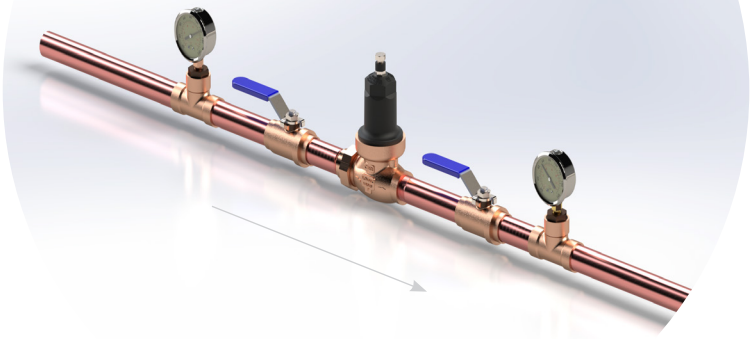
INSTALLATION **CONFIGURATIONS**

NORMAL INSTALLATION

A typical installation for the Model C150 is shown below in Fig. 1

The Model C150E is pre-set to adjust to a 50 PSI system pressure which means that the incoming pressure shall be less than 150 PSI or a pressure reduction ration is less than 3:1.

This is important for safe operation and a longer service life.

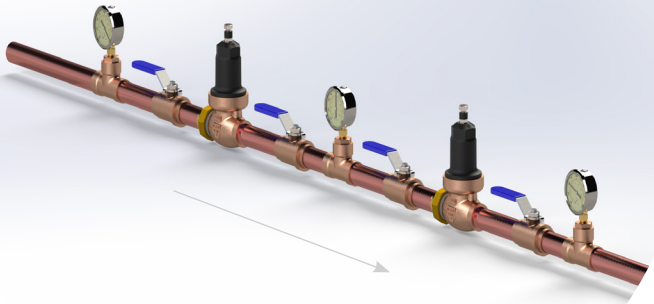


TWO STAGE INSTALLATION

(Higher Pressure Conditions)

It is recommended where the pressure reduction ratio is great than 3:1 or higher than 150 PSI an additional PRV be installed.

Example: The incoming pressure is 200 PSI or greater, PRV #1 in Fig. 2 be adjusted to reduce the pressure to 100 PSI and than a PRV #2 reduces to 50 PSI system pressure.

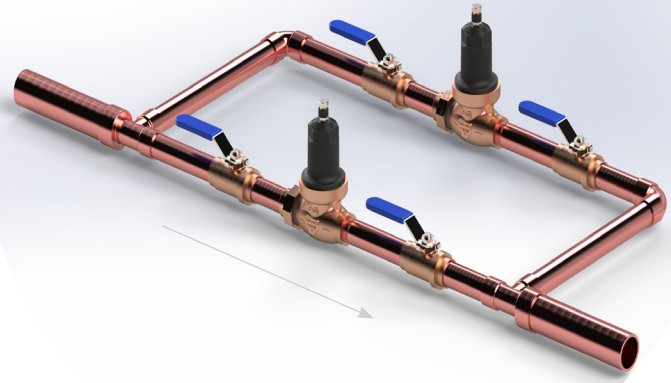


PARALLEL INSTALLATION

(Higher Flow Conditions)

The parallel installation shown in Fig. 3 with PRV #1 and PRV #2 are recommended for applications with a wide variation in low/high system flow .

This type installation will also provide higher flow rates at lower friction losses.



Installation Instructions
Series C150E PRV

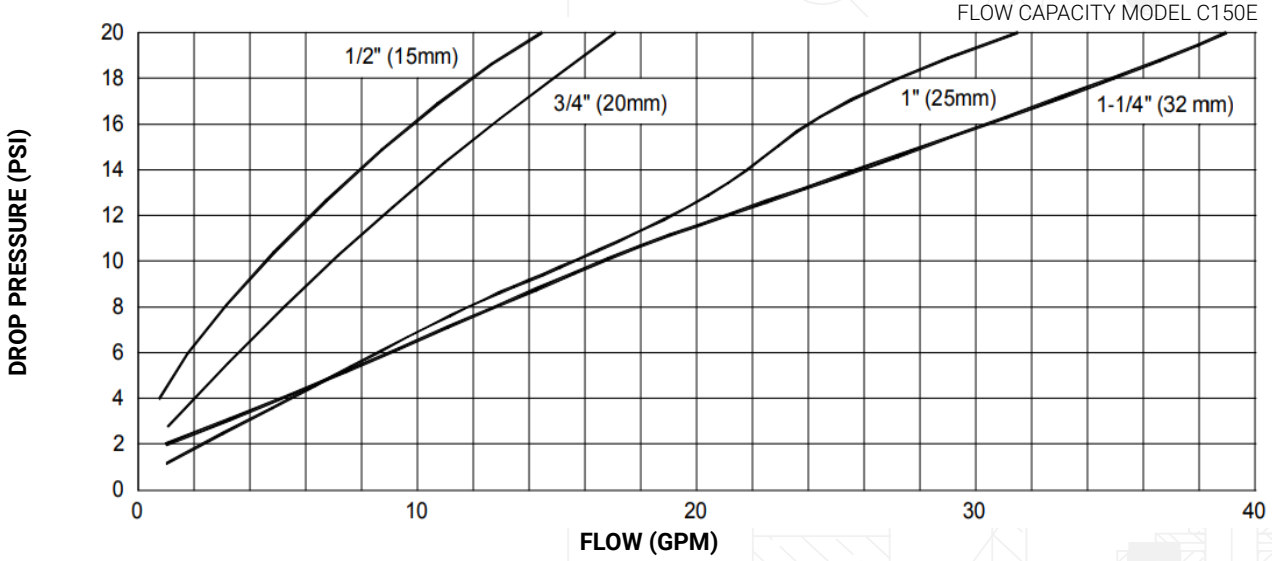
1. PRV valve should be installed by a licensed contractor in accordance with local plumbing codes.
2. This valve should be installed to be accessible for field adjustments and services.
3. Prior to installation insure that the pipe thread ends are correct and clean from any forging material.
4. Install the PRV arrow on the valve body pointing in the flow direction.
5. Regulator may be installed vertically or horizontally.
6. At "Start-Up" slowly fill pipe line and inspect for leaks.

Preventive maintenance: The PRV valve shall be inspected annually to assure pressure system settings and maximum life and performance.

Recommended Specifications

The Water Pressure Reducing Valve shall be ASSE® Listed 1003 and NSF/ANSI 61 Certified, and available with single union, double union and less union end connections. The main body shall be Un-Leaded Bronze C87800. The cover shall be composite plastic. The cartridge shall be Delrin® and incorporate an integral seat. The disc elastomer shall be EPDM. The assembly shall be accessible for maintenance without removing the device from the line. The standard adjustable spring range is 15 to 75 PSI factory pre-set to 50 PSI. An optional spring allows for a higher adjustment range of 15 to 150 PSI. Pressure Max: 400 Psi and Temp Max: 180^0 F (80^0 C). The pressure reducing valve shall be a Flomatic Model C150E.

FLOW CAPACITY MODEL C150E



MODEL C150E

Female NPT x male union threads on both ends, supplied with one female union end nut by female NPT. For double union add "U" to the end of the part number

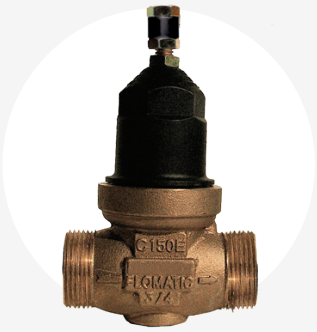
Standard Spring Range 15 - 75 PSI, Optional range 15 - 150 PSI
Factory set at 50 PSI
Certified: NSF/ANSI 61 and ASSE 1003

LEAD FREE NSF/ANSI 61 IAPMO R&T

TEMP MAX: 180°F (80°C)

PRESSURE MAX: 400 PSI

SIZES: ½" THRU 2"



MODEL C150ET

Dual threaded female NPT x male NPT ends

Standard Spring Range 15 - 75 PSI, Optional range 15 - 150 PSI
Factory set at 50 PSI
Certified: NSF/ANSI 61 and ASSE 1003

LEAD FREE NSF/ANSI 61 IAPMO R&T

TEMP MAX: 180°F (80°C)

PRESSURE MAX: 400 PSI

SIZES: ¾" F & 1" M and 1" F & 1 ¼" M

MODEL C150EHF

Full port - **high flow** design for flows **up to 70 GPM**.
1 ¼" female NPT both ends

Standard Spring Range 15 - 75 PSI, Optional range 15 - 150 PSI
Factory set at 50 PSI
Certified: NSF/ANSI 61 and ASSE 1003

Designed for high flow commercial applications

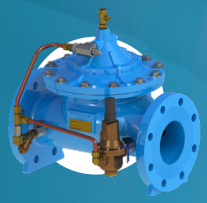
LEAD FREE NSF/ANSI 61 IAPMO R&T

TEMP MAX: 180°F (80°C)

PRESSURE MAX: 400 PSI

SIZES: 1 ¼"

MODEL	DESCRIPTION	END-CONNECTIONS	
		INLET	OUTLET
C150E	Unleaded Valve Body (Supplied with one female union end nut)	Male Union Thread with Female NPT	Male Union Thread with Female NPT
C150ET	Unleaded Valve Body	Female NPT/Male NPT (No union nut)	Female NPT/Male NPT (No union nut)
C150EHF	Unleaded Valve Body	Female NPT	Female NPT



NOTE: Flomatic also manufactures Pilot Operated pressure Reducing Valves in a size range from 1 1/4" thru 30". For detail information please visit www.flomatic.com

FLOMATIC® VALVES

Since 1933, Manufacturing

The Most Complete Line of Valves for Water and Wastewater Applications

FIND OUR COMPLETE VALVE OFFERING AT

WWW.FLOMATIC.COM

FLOMATIC CORPORATION

15 Pruyn's Island Drive,
Glens Falls, New York 12801
Phone: (800) 833-2040
Fax: (800) 314-3155

WWW.FLOMATIC.COM

LIMITED THREE YEAR WARRANTY: The Flomatic Corporation warrants that its Pressure Reducing Valves in all sizes are free from defects in materials and workmanship. Flomatic will replace any valve covered by this warranty found to be defective within one year from time of sale. This warranty will be void if the product has been modified in any way by the purchaser, or is subject to unreasonable use.

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