

## **Flow Monitors - Flow Switches Excess Flow Valves - Flow Meters**



Welcome to CTE Chem Tec Equipment.

**Leading manufacturers of Flow Monitors, Flow Meters, Flow Switches, and Excess Flow Valves for 35 years.**

Flow Switches (also known as Flow Monitors and Flow Sensors) give switch contact at a predetermined flow rate. Flow Meters provide varying electrical output with fluid flow. Excess Flow Valves are normally open valves that close automatically at a predetermined flow rate.

We specialize in the lower flow ranges -- i.e. 120 SCFM air, 20 GPM water, or less. Flow Switches have fixed and adjustable models. All categories have a variety of flow ranges and pipe sizes.

CTE is the only manufacturer of all Teflon® Flow Switches and Flow Meters.

**Important Notice: All of our products containing reed switches are now available with digital solid state switching.**

**Please check out our exciting and innovative  
NEW PRODUCTS and ADD-ON's  
to our existing product line.**

**INSTALLATION & MAINTENANCE MANUALS are now  
available in PDF format.**

CTE 📍 234 S.W. 12th Avenue 📍 Deerfield Beach, Florida 33442  
Tel (800) 222-2177 📠 Fax (954) 428-8745 📧 Email: [info@chemtec.com](mailto:info@chemtec.com)

## EXCESS FLOW VALVES

*For preventing uncontrolled flows of gases and liquids.*



**UL** Recognized File E75356  
**CE** Recognized 73/23/EEC,93/68/EEC

### KEY FEATURES

Controls excessive flows

### APPLICATIONS

Fitting Failure

Regulator failure

Hydraulic control

Gas Analyzers

Toxic Gas and Liquid Releases

### Features

- Controlled Bleed, Resets Automatically
- Field Adjustable
- Positive Shut-off
- Attitude Variable Mounting

- Function: Restricts or Shuts Off Flow
- Output: switch contact optional
- Materials: 316ss or Brass Body

## Operation

Flow enters the unit and makes a right angle to the outlet port across the nose of a magnetic piston. The piston is held in place by attraction to an adjusting screw magnet. A pressure differential is created by flow across the piston. When the differential is great enough, the piston slides to a seat at the outlet port. The flow rate at which the piston actuates can be changed externally by turning the adjusting screw, thereby changing the piston's relationship with the flow stream.

In this auto reset model after actuation, the piston rests on a metal to metal seat which allows a controlled bleed. To reset the unit, pressure must be equalized on both sides of the piston. If the source is turned off, either upstream or downstream, the bleed will equalize the pressure and the valve will automatically reopen by magnetic repulsion from the fixed magnet located in the valve body.

For positive shut-off an elastomer is used on the nose of the piston. When it comes to rest on the seat it provides a bubble tight closure. To reopen the valve there are two options.

1. The upstream pipeline must be bled to atmosphere if the line downstream is at atmosphere.
2. A by-pass line with an on/off valve must be installed to port the upstream pressure to the downstream pipeline to equalize the pressure.

Our MRS series is available with the by-pass system as an integral part of the unit.

- Actuation points for air at 68° F and 14.7 PSIG.
- Corrections must be used for other gases, line pressures and temperatures.\*
- Please consult your representative or the factory.

### CALIBRATION RANGE

Model	Adjustable Range Air SLPM (SCFM)	Adjustable Range Water LPM (GPM)	Port Size FNPT
EFV-125	0.5 to 155.70 (0.018 to 5.5)	0.015 to 4.5 (0.004 to 1.2)	1/8"
EFV-250	4 to 1132 (0.14 to 40)	0.100 to 15.1 (0.026 to 4.0)	1/4"
EFV-375	85 to 1840 (3.0 to 65)	0.380 to 15.1 (0.100 to 4.0)	3/8"
EFV-500	142 to 2123 (5.0 to 75)	1.90 to 37.8 (0.50 to 10.0)	1/2"
EFV-750	425 to 3681 (15.0 to 130)	3.80 to 75.7 (1.0 to 20.0)	3/4"

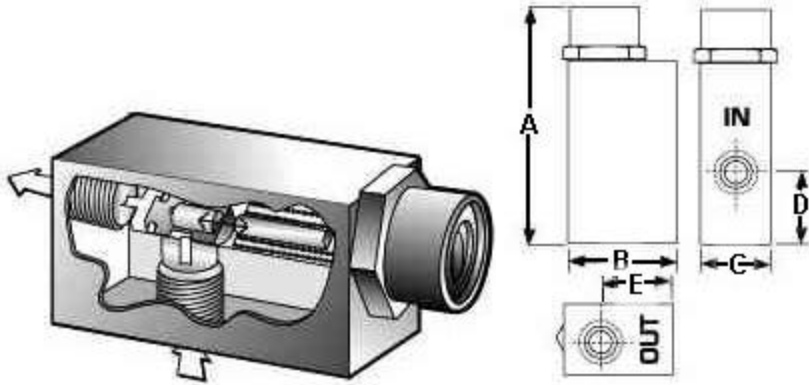
### PRESSURE LOSS TABLE

Model	Set Point		DP to Atmosphere BARD (PSID)
	Air SLPM (SCFM)	Water LPM (GPM)	
EFV-125	0.5 (0.018)	0.015 (0.004)	0.08 (1.2)
	75 (2.63)	2.65 (0.70)	0.11 (1.6)
	155.7 (5.5)	4.50 (1.20)	0.21 (3.0)
EFV-250	4 (0.14)	0.1 (0.26)	0.21 (3.0)
	500 (17.50)	5.0 (1.32)	0.41 (6.0)
	1132 (39.62)	15.1 (3.99)	0.83 (12.0)
EFV-375	85 (2.98)	0.38 (0.10)	0.10 (1.5)
	900 (31.50)	10.0 (2.64)	0.28 (4.0)
	1840 (64.40)	15.1 (3.99)	0.83 (12.0)
EFV-500	142 (4.97)	1.9 (0.50)	0.07 (1.0)
	1000 (35.00)	25.0 (6.60)	0.28 (4.0)
	2123 (74.31)	37.8 (9.98)	0.48 (7.0)
EFV-750	425 (14.88)	3.8 (1.00)	0.14 (2.0)
	1800 (63.00)	4.7 (1.24)	0.21 (3.0)
	3681 (128.84)	75.7 (19.98)	0.34 (5.0)

\* Consult Factory

**EXCESS FLOW VALVES**  
EFV SERIES

For preventing uncontrolled flows of gases and liquids.



Patent No's 4,637,427; 4,630,799; 4,574,833 Others may apply.

**Switch Data**

**SPST**  
Hermetically Sealed  
Reed Switch

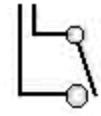
Max Switching Voltage  
DC (V) 200  
AC (V) 150

Contact Rating  
DC (W) 50  
AC (VA) 70

Max. Switching Current  
DC (A) 1.0  
AC (A) 0.7

**Leads**

**SPST**  
Leads 18 in. min. from body 22 AWG, TFE  
insulation.



Above values for resistive loads only. For inductive loads, surge current and rush current -- contact protection is required; consult your local representative.

## Specifications

Unit	Max. Working Pressure PSIG (BARG)	Wetted Parts	Seals
Brass	1500 (103.42)	Brass, Epoxy, Delrin **	Viton®
316ss	3000 (206.84)	316ss, Epoxy	Viton®
		** Brass Piston in 125 Unit	

**Fluid Ports:** Inlet/Outlet Ports - See Calibration Ranges

**Temperature Operating Range:** 32° to 220° F (0° to 104° C).

**Installation:** The 125, 250 and 375 series can be mounted in any position. The 500 and 750 series can be mounted in any position except with the outlet port down. We suggest the unit be calibrated in the attitude in which it will be installed. An actuation point approximately 3 or 4 times normal flow rate should be chosen to avoid the valve actuating from initial pressurization of the system and normal surges. If flow is kept constant, an actuation point 10% above the normal rate may be used.

MODEL	WEIGHT Lbs (Grams)	DIMENSIONS Inches (mm)				
		A	B	C	D	E
EFV125	0.25 (113.4)	2.5 (64)	1.00(25)	0.75 (19)	0.70 (17)	0.63 (16)
EFV250	0.50 (226.8)	3.3 (84)	1.50(38)	1.00 (25)	1.00 (25)	1.00 (25)
EFV375	0.50 (226.8)	3.3 (84)	1.50(38)	1.00 (25)	1.00 (25)	1.00 (25)
EFV500	1.00 (453.6)	4.0 (102)	2.00(50)	1.25 (31)	1.25 (31)	1.38 (35)
EFV750	1.50 (680.4)	4.9 (124)	2.25(57)	1.25 (31)	1.63 (41)	1.63 (41)

## How to Order

EFV Model	125 Size	B Material	PSO Positive Shut-Off	ES Electric Switch Normally Open	OPTIONS Any of the following options may be added:																
	125 250 375 500 750	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="padding: 2px;">B</td> <td style="padding: 2px;">Brass</td> </tr> <tr> <td style="padding: 2px;">S</td> <td style="padding: 2px;">316ss</td> </tr> </table> <p style="text-align: center; margin-top: 10px;">Other material available upon request.</p>	B	Brass	S	316ss	Blank for Controlled Bleed Model	(ES not available on 125 model)	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="padding: 2px;">O2</td> <td style="padding: 2px;">Oxygen Cleaned</td> </tr> <tr> <td style="padding: 2px;">HT</td> <td style="padding: 2px;">High Temperature Unit 340° F (171° C)</td> </tr> <tr> <td style="padding: 2px;">KZ</td> <td style="padding: 2px;">Kalrez® Seals</td> </tr> <tr> <td style="padding: 2px;">EPR</td> <td style="padding: 2px;">EPR Seals</td> </tr> <tr> <td style="padding: 2px;">Z</td> <td style="padding: 2px;">Special Custom</td> </tr> <tr> <td style="padding: 2px;">FP</td> <td style="padding: 2px;">Factory Presetting (State trip point, medium, and line pressure) Welded Fittings *</td> </tr> </table>	O2	Oxygen Cleaned	HT	High Temperature Unit 340° F (171° C)	KZ	Kalrez® Seals	EPR	EPR Seals	Z	Special Custom	FP	Factory Presetting (State trip point, medium, and line pressure) Welded Fittings *
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\* Consult Factory

**Note:**

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Teflon® is a registered trademark of DuPont.



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# EXCESS FLOW VALVES

MANUAL RESET EFV

With integral manual reset for preventing uncontrolled flows of gases and liquids.



**UL** Recognized File E75356  
**CE** Recognized 73/23/EEC, 93/68/EEC

## KEY FEATURES

Positive shut off with internal reset mechanism

## APPLICATIONS

- Plant Lines
- Regulator Failure
- Fitting Failure
- Toxic Gases and Liquids
- Gas distribution systems
- Gas Analyzers
- Loss Control

## Features

- Field Adjustable
- Resets Manually
- Materials: 316ss or Brass Body Standard
- Detects Excess Flows

- Detects an Increase in Viscosity of Media
- Function: Shuts Off Flow
- Output: Switch Contact (Optional)

## Operation

Flow enters the unit and makes a right angle to the outlet port across the nose of a magnetic piston. The piston is held in place by attraction to an adjusting screw magnet. A pressure differential is created by flow across the piston. When the differential is great enough, the piston slides to a seat at the outlet port. The flow rate at which the piston actuates can be changed externally by turning the adjusting screw, thereby changing the piston's relationship with the flow stream.

The piston makes a bubble tight seal when it comes in contact with the seat. To reopen the unit, turn the balancing valve handle on the side. This ports the upstream pipeline to the downstream pipeline. When the pressure is equalized on each side of the piston, it will reset. The unit is returned to normal operation by closing the balancing valve.

- Actuation points for air at 68° F and 14.7 PSIG.
- Corrections must be used for other gases, line pressures and temperatures.\*
- Please consult your representative or the factory.

## CALIBRATION RANGE

Model	Adjustable Range Air SLPM (SCFM)	Adjustable Range Water LPM (GPM)	Port Size FNPT
EFV-125	0.5 to 155.70 (0.018 to 5.5)	0.015 to 4.5 (0.004 to 1.2)	1/8"
EFV-250	4 to 1132 (0.14 to 40)	0.100 to 15.1 (0.026 to 4.0)	1/4"
EFV-375	85 to 1840 (3.0 to 65)	0.380 to 15.1 (0.100 to 4.0)	3/8"
EFV-500	142 to 2123 (5.0 to 75)	1.90 to 37.8 (0.50 to 10.0)	1/2"
EFV-750	425 to 3681 (15.0 to 130)	3.80 to 75.7 (1.0 to 20.0)	3/4"

**PRESSURE LOSS TABLE**

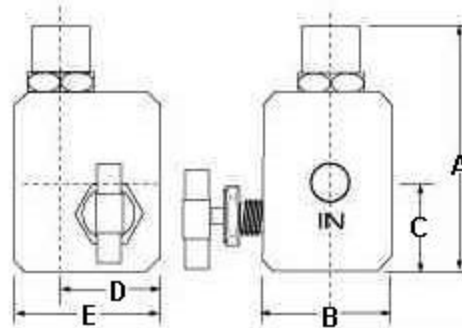
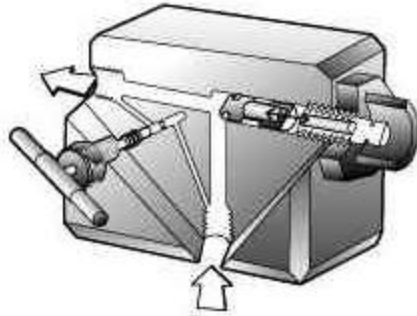
Model	Set Point		DP to Atmosphere BARD (PSID)
	Air SLPM (SCFM)	Water LPM (GPM)	
EFV-125	0.5 (0.018)	0.015 (0.004)	0.08 (1.2)
	75 (2.63)	2.65 (0.70)	0.11 (1.6)
	155.7 (5.5)	4.50 (1.20)	0.21 (3.0)
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	1132 (39.62)	15.1 (3.99)	0.83 (12.0)
EFV-375	85 (2.98)	0.38 (0.10)	0.10 (1.5)
	900 (31.50)	10.0 (2.64)	0.28 (4.0)
	1840 (64.40)	15.1 (3.99)	0.83 (12.0)
EFV-500	142 (4.97)	1.9 (0.50)	0.07 (1.0)
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	2123 (74.31)	37.8 (9.98)	0.48 (7.0)
EFV-750	425 (14.88)	3.8 (1.00)	0.14 (2.0)
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	3681 (128.84)	75.7 (19.98)	0.34 (5.0)

\*Consult Factory

# EXCESS FLOW VALVES

MANUAL RESET EFV

With integral manual reset for preventing uncontrolled flows of gases and liquids.



Patent No's 4,637,427; 4,630,799; 4,574,833 Others may apply.

### Switch Data

<p><b>SPST</b> Hermetically Sealed Reed Switch</p>
<p>Max Switching Voltage DC (V) 200 AC (V) 150</p>
<p>Contact Rating DC (W) 50 AC (VA) 70</p>
<p>Max. Switching Current DC (A) 1.0 AC (A) 0.7</p>

### Leads

<p><b>SPST</b> Leads 18 in. min. from body 22 AWG, TFE insulation.</p>	
----------------------------------------------------------------------------	--

Above values for resistive loads only. For inductive loads, surge current and rush current -- contact protection is required; consult your local representative.

## Specifications

Unit	Max. Working Pressure PSIG (BARG)	Wetted Parts	Seals	Balancing Valves Packing
Brass	1500 (103.42)	Brass, Epoxy, Delrin**	Viton®	Teflon®
316ss	3000 (206.84)	316ss, Epoxy	Viton®	Teflon®
		** Brass Piston in 125 Unit		

**Fluid Ports:** Inlet/Outlet Ports - See Calibration Ranges

**Temperature Operating Range:** 32° to 220° F (0° to 104° C).

**Installation:** The 125, 250 and 375 series can be mounted in any position. The 500 and 750 series can be mounted in any position except with the outlet port down. We suggest the unit be calibrated in the attitude in which it will be installed. An actuation point approximately 3 or 4 times normal flow rate should be chosen to avoid the valve actuating from initial pressurization of the system and normal surges. If flow is kept constant, an actuation point 10% above the normal rate may be used.

MODEL	WEIGHT Lbs (Grams)	DIMENSIONS Inches (mm)				
		A	B	C	D	E
EFV125	1.50 (0.68)	2.72 (69)	1.50 (38)	0.75 (19)	1.12(28)	1.62 (41)
EFV250	4.62 (2.095)	3.71 (95)	2.00 (50)	1.50 (38)	1.94 (49)	2.75 (70)
EFV375	4.62 (2.095)	3.71 (95)	2.00 (50)	1.50 (38)	1.94 (49)	2.75 (70)
EFV500	4.75 (2.152)	4.46 (114)	2.00 (50)	1.75 (45)	1.94 (49)	2.75 (70)
EFV750	7.06 (3.204)	5.34 (136)	2.00 (50)	2.13 (54)	2.13 (54)	3.00 (77)

## How to Order

EFV Model	125 Size	B Material	MRS	ES Electric Switch Normally Open	OPTIONS Any of the following options may be added:																
	125 250 375 500 750	<table border="1" style="margin: auto;"> <tr> <td style="padding: 2px;">B</td> <td style="padding: 2px;">Brass</td> </tr> <tr> <td style="padding: 2px;">S</td> <td style="padding: 2px;">316ss</td> </tr> </table>	B	Brass	S	316ss	Manual Reset Model	(ES not available on 125 model)	<table border="1" style="margin: auto;"> <tr> <td style="padding: 2px;">O2</td> <td style="padding: 2px;">Oxygen Cleaned</td> </tr> <tr> <td style="padding: 2px;">HT</td> <td style="padding: 2px;">High Temperature Unit 340° F (171° C)</td> </tr> <tr> <td style="padding: 2px;">KZ</td> <td style="padding: 2px;">Kalrez® Seals</td> </tr> <tr> <td style="padding: 2px;">EPR</td> <td style="padding: 2px;">EPR Seals</td> </tr> <tr> <td style="padding: 2px;">Z</td> <td style="padding: 2px;">Special Custom</td> </tr> <tr> <td style="padding: 2px;">FP</td> <td style="padding: 2px;">Factory Presetting (State trip point, medium, and line pressure) Welded Fittings *</td> </tr> </table>	O2	Oxygen Cleaned	HT	High Temperature Unit 340° F (171° C)	KZ	Kalrez® Seals	EPR	EPR Seals	Z	Special Custom	FP	Factory Presetting (State trip point, medium, and line pressure) Welded Fittings *
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**EXCESS FLOW VALVES**  
HIGH PRESSURE EFV

*For preventing uncontrolled flows of gases and liquids.*



**UL** Recognized File E75356  
**CE** Recognized 73/23/EEC,93/68/EEC

**KEY FEATURES**

Controls high pressure excessive flows

**APPLICATIONS**

CNG Delivery

High Pressure Plant Lines

Hydraulic Systems

**Features**

- |                                                                                                                                                                                                                             |                                                                                                                                                                                                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• Controlled Bleed Resets Automatically</li> <li>• Field Adjustable</li> <li>• Positive Shut-off option</li> <li>• Materials: 316ss</li> <li>• Maximum Pressure 6000 PSIG</li> </ul> | <ul style="list-style-type: none"> <li>• Detects Excess Flows</li> <li>• Detects Increases in Media Viscosity</li> <li>• Function: Restricts or shuts Off flow</li> <li>• Output: Switch Contact (Optional)</li> </ul> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Operation**

Flow enters the unit and makes a right angle to the outlet port across the nose of a magnetic piston. The piston is held in place by attraction to an adjusting screw magnet. A pressure differential is created by flow across the piston. When the differential is great enough, the piston slides to a seat at the outlet port. The flow rate at which the piston actuates can be changed externally by turning the adjusting screw, thereby changing the piston's relationship with the flow stream.

In this auto reset model after actuation, the piston rests on a metal to metal seat that allows a controlled bleed. To reset the unit, pressure must be equalized on both sides of the piston. If the source is turned off, either upstream or downstream, the bleed will equalize the pressure and the valve will automatically reopen by magnetic repulsion from the fixed magnet located in the valve body.

For positive shut-off an elastomer is used on the nose of the piston. When it comes to rest on the seat it provides a bubble tight closure. To reopen the valve there are two options.

1. The upstream pipeline must be bled to atmosphere if the line downstream is at atmosphere.
  2. A by-pass line with an on/off valve must be installed to port the upstream pressure to the downstream pipeline to equalize the pressure.
- Actuation points for air at 68° F and 14.7 PSIG.
  - Corrections must be used for other gases, line pressures and temperatures.\*
  - Please consult your representative or the factory.

### CALIBRATION RANGE

Model	Adjustable Range Air SLPM (SCFM)	Adjustable Range Water LPM (GPM)	Port Size FNPT
HPEFV-250	4 to 1132 (0.14 to 40)	0.100 to 15.1 (0.026 to 4.0)	1/4"
HPEFV-500	142 to 2123 (5.0 to 75)	1.90 to 37.8 (0.50 to 10.0)	1/2"
HPEFV-750	425 to 3681 (15.0 to 130)	3.80 to 75.7 (1.0 to 20.0)	3/4"

**PRESSURE LOSS TABLE**


Model	Set Point		DP to Atmosphere BARD (PSID)
	Air SLPM (SCFM)	Water LPM (GPM)	
HPEFV-250	4 (0.14)	0.1 (0.26)	0.21 (3.0)
	500 (17.50)	5.0 (1.32)	0.41 (6.0)
	1132 (39.62)	15.1 (3.99)	0.83 (12.0)
HPEFV-500	142 (4.97)	1.9 (0.50)	0.07 (1.0)
	1000 (35.00)	25.0 (6.60)	0.28 (4.0)
	2123 (74.31)	37.8 (9.98)	0.48 (7.0)
HPEFV-750	425 (14.88)	3.8 (1.00)	0.14 (2.0)
	1800 (63.00)	4.7 (1.24)	0.21 (3.0)
	3681 (128.84)	75.7 (19.98)	0.34 (5.0)

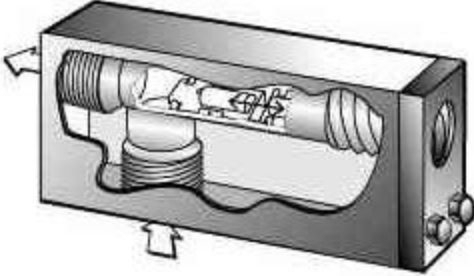
Diagrams and Specifications are on the next page.

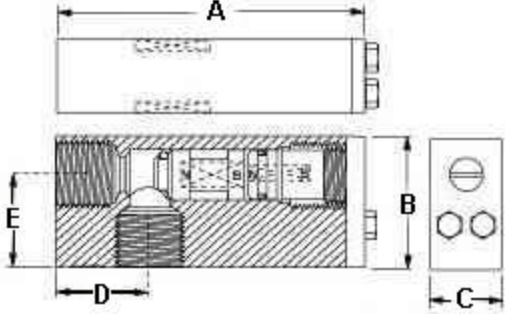
## EXCESS FLOW VALVES

HIGH PRESSURE EFV

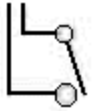
*For preventing uncontrolled flows of gases and liquids.*







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Switch Data	Leads
<p style="text-align: center;"><b>SPST</b> Hermetically Sealed Reed Switch</p>	<p style="text-align: center;"><b>SPST</b> Leads 18 in. min. from body 22 AWG, TFE insulation.</p>
<p style="text-align: center;">Max Switching Voltage DC (V) 200 AC (V) 150</p>	
<p style="text-align: center;">Contact Rating DC (W) 50 AC (VA) 70</p>	
<p style="text-align: center;">Max. Switching Current DC (A) 1.0 AC (A) 0.7</p>	

Above values for resistive loads only. For inductive loads, surge current and rush current -- contact protection is required; consult your local representative.

## Specifications

Unit	Max. Working Pressure PSIG (BARG)	Wetted Parts	Seals
316ss	6000 (413.4)	316ss, Epoxy	Viton®

**Fluid Ports:** Inlet/Outlet Ports - See Calibration Ranges

**Temperature Operating Range:** 32° to 220° F (0° to 104° C).

**Installation:** The 250 series may be mounted in any position. 500 and 750 series can be mounted in any position except with the outlet port down. We suggest the unit be calibrated in the attitude in which it will be installed. An actuation point two to three times the normal flow rate should be chosen to avoid the valve actuating from initial pressurization of the system and normal surges. If flow is kept constant, an actuation point 10% above the normal rate may be used.

MODEL	WEIGHT Lbs (Grams)	DIMENSIONS Inches (mm)				
		A	B	C	D	E
EFV250	1.47 (0.667)	3.75 (149)	1.50 (38)	1.00 (25)	1.00 (25)	1.00 (25)
EFV500	2.625 (1.190)	4.25 (108)	2.00 (51)	1.25 (32)	1.25 (32)	1.37 (35)
EFV750	3.44 (1.560)	5.25 (133)	2.25 (57)	1.25 (32)	1.625 (41)	1.625 (41)

### How to Order

HPEFV Model	250 Size	S Material	PSO Positive Shut-Off	ES Electric Switch	OPTIONS Any of the following options may be added:														
	250 500 750	<table border="1"> <tr> <td>S</td> <td>316ss</td> </tr> </table> <p>Other material available upon request.</p>	S	316ss	Blank for Controlled Bleed Model	Normally Open*	<table border="1"> <tr> <td>O2</td> <td>Oxygen Cleaned</td> </tr> <tr> <td>HT</td> <td>High Temperature Unit 340° F (171° C)</td> </tr> <tr> <td>KZ</td> <td>Kalrez® Seals</td> </tr> <tr> <td>EPR</td> <td>EPR Seals</td> </tr> <tr> <td>Z</td> <td>Special Custom Option</td> </tr> <tr> <td>FP</td> <td>Factory Presetting (State trip point, medium, and line pressure) Welded Fittings *</td> </tr> </table>	O2	Oxygen Cleaned	HT	High Temperature Unit 340° F (171° C)	KZ	Kalrez® Seals	EPR	EPR Seals	Z	Special Custom Option	FP	Factory Presetting (State trip point, medium, and line pressure) Welded Fittings *
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\* Consult Factory

## ChemTec Equipment Company - EFV HP Series - More Specs

**Note:**

All dimensions and specifications are subject to change for quality improvement. Not responsible for typing errors.

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