



Miniature | EFPV
P/N: 70-00186



High Pressure | EFPV_HP
P/N: 70-00194



High Sensitivity | EFPV_HS
P/N: 70-00233

Premier Excess Flow Prevention Valves are unique factory adjustable gas valves designed to automatically shut off the flow of gas when flow exceeds a preset level. These valves are designed to protect systems and/or people in the event of a line failure down the stream from a valve.

Premier excess flow valves are available in three unique designs. The miniature EFPV operates on systems between 30 and 200 PSIG (2.07 and 13.79 bar), offering a wide range of factory adjustable trip points. The high pressure EFPV_HP includes all the features of the EFPV with an extended operating range (100 to 3000 PSIG / 6.89 – 206.84 bar). The high sensitivity EFPV_HS valve is ten times more sensitive than the aforementioned models, offering an extended low range system pressure down to 5 PSIG (0.34 bar) and the lowest settable trip-point of the three valves. Flow rates can be preset at the factory location to meet customer specifications.

After a valve has tripped it can be reset with a convenient integrated reset valve / slider that will allow users to quickly get their systems back up and running (after repairing the leak which caused the valve to trip). Premier Excess Flow Valves are remarkably flexible with a variety of available construction materials, multiple porting configurations, a wide range of operating pressures and factory adjustable trip points.

FEATURES

- Factory adjustable flow trip point
- Convenient integrated bypass valve/reset slider
- Inlet pressures up to 3000 PSIG (172.37 bar) (EFPV_HP)
- Complete shut off when tripped (no bleed)
- High Sensitivity model can trip with a pressure differential under 5 PSIG (0.34 bar) (EFPV_HS)
- Compact size (EFPV)
- Very competitive pricing
- Models are available for both corrosive and non-corrosive service
- Machined bar stock bodies eliminate porosity found in castings

SOME APPLICATIONS WILL REQUIRE A CUSTOM SOLUTION.
CONTACT PREMIER INDUSTRIES TO REQUEST A MODIFICATION
OR A CUSTOM DESIGN.

MINIATURE

EFPV
Excess Flow Prevention Valves

SPECIFICATIONS

- **OPERATING RANGE:**
 - 30 - 200 PSIG (2.07-13.79 bar)
- **LEAK RATE:** Bubble tight with nitrogen gas
- **FLOW TRIP POINT:**
 - adjustable at factory location to meet customer specifications (see chart for capabilities)
- **WEIGHT:** approx. .15 lbs

MATERIALS OF CONSTRUCTION

- **WETTED COMPONENTS**:**
 - 6061-T6 Aluminum/ Clear Anodized
 - 303 Stainless Steel
 - SAE 360 BRASS
- **SEALS:**
 - Viton®

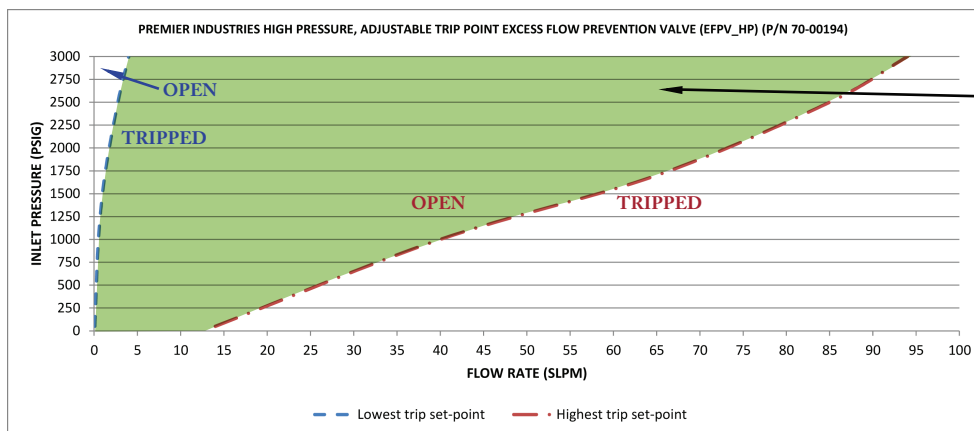
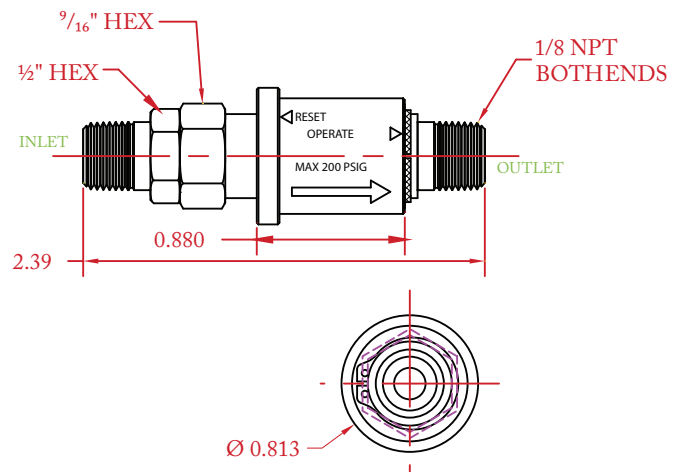
PORTING

- **INLET CONNECTION:**
 - 1/8-27 NPT
- **OUTLET CONNECTION:**
 - 1/8-27 NPT

OPTIONS

- Anodized Colors for Aluminum Bodies
- Private Label

PART NUMBER: 70-00186



The trip point can be set anywhere within the shaded green area.

Viton® is a registered trademark of E.I. duPont de Nemours and Company
**Stainless steel components also used in aluminum & brass options

Contact factory for material certifications. Fees may apply.

Flow rates indicated reflect valve capabilities using nitrogen gas.

SPECIFICATIONS

- **MAXIMUM INLET PRESSURE:**
 - 75 - 3000 PSIG (5.17 - 206.84 bar)
- **LEAK RATE:** Bubble tight with nitrogen gas
- **FLOW TRIP POINT :**
 - Adjustable at factory location to meet customer specifications (see chart for capabilities)
- **WEIGHT:** approximately .75 lbs

MATERIALS OF CONSTRUCTION

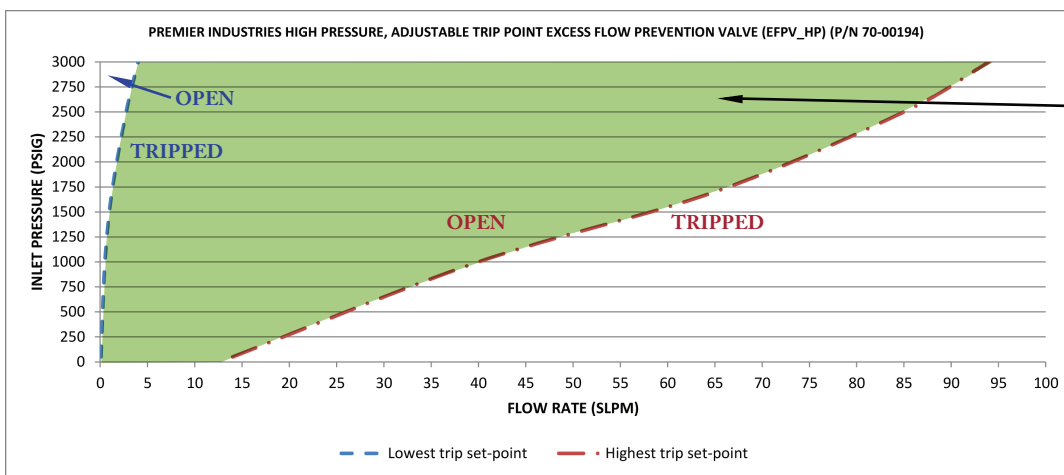
- **BODY/ADAPTOR MATERIAL OPTIONS:**
 - 6061-T6 Aluminum, clear anodized
 - 303 Stainless Steel
- **PISTON:** 303 Stainless Steel
- **NEEDLE VALVE:** 18-8 Stainless Steel
- **BYPASS STEM AND NUT:** 303 stainless steel
- **BYPASS VALVE KNOB:**
 - 6061-T6 Aluminum/black anodized
- **SPRING:** 300 series stainless steel
- **SEAL MATERIAL OPTIONS:**
 - BUNA-N
 - Viton-A®
 - Neoprene
 - EPDM
- **BACK-UP RINGS:**
 - PTFE

PORTING

- **INLET CONNECTION OPTIONS:**
 - 1/4-18 FNPT
 - 1/4-18 MNPT
- **OUTLET CONNECTION OPTIONS:**
 - 1/4-18 FNPT
 - 1/4-18 MNPT

OPTIONS

- Anodized Colors for Aluminum Bodies & Bonnets
- Private Label



The trip point can be set anywhere within the shaded green area.

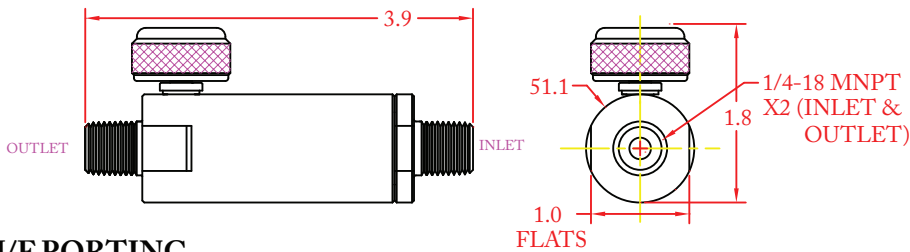
Viton-A® is a registered trademark of E.I. duPont de Nemours and Company
 **Stainless steel components also used in aluminum option

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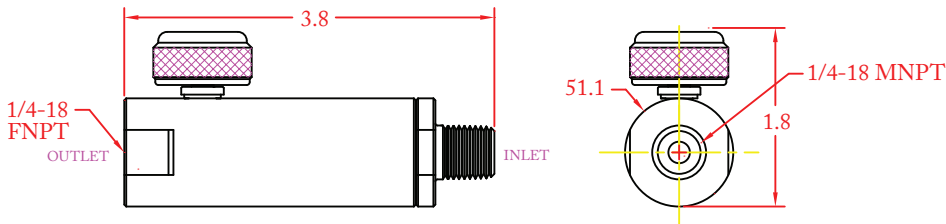
Flow rates indicated reflect valve capabilities using nitrogen gas.

PART NUMBER: 70-00194

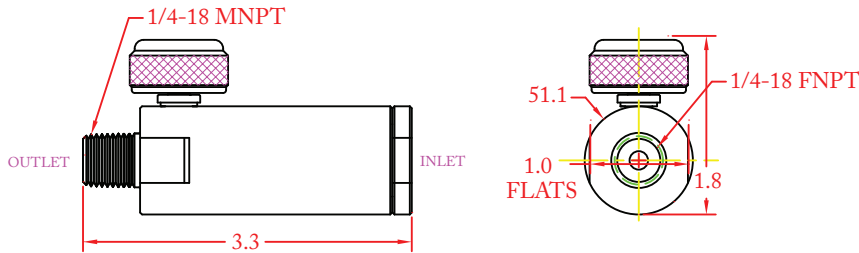
M/M PORTING



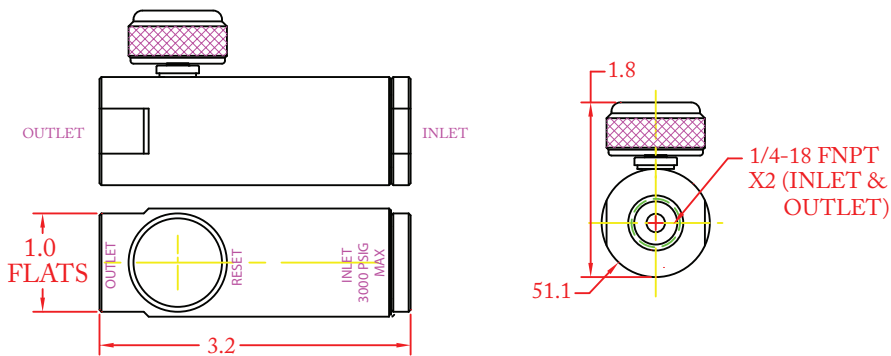
M/F PORTING



F/M PORTING



F/F PORTING



PART #	-	1	2	3	4	5
70-00194	-					

1	BODY MATERIAL & FINISH
1	6061-T6 Aluminum, <i>Clear Anodized</i>
2	303 Stainless Steel
2	SEAL MATERIAL
1	Buna-N
2	Viton-A®
3	Neoprene
4	EPDM

3	INLET CONNECTION
1	1/4-18 FNPT
2	1/4-18 MNPT
4	OUTLET CONNECTION
1	1/4-18 FNPT
2	1/4-18 MNPT
5	FLOW SETTING
X	Consult factory

*Viton-A® is a registered trademarks of
E.I. duPont de Nemours and Company.*

*Contact factory for material certifications.
Fees may apply.*

SPECIFICATIONS

- **OPERATING RANGE:**
 - 5 - 200 PSIG (0.34 - 13.79 bar)
- **LEAK RATE:** Bubble tight with nitrogen gas
- **FLOW TRIP POINT:**
 - adjustable at factory location to meet customer specifications

MATERIALS OF CONSTRUCTION

- **WETTED MATERIALS**:**
 - 6061-T6 Aluminum / Clear Anodized
 - 303 Stainless Steel
- * *Stainless steel components also used in aluminum option*
- **SEAL MATERIAL:**
 - Viton-A® (standard)
 - EPDM

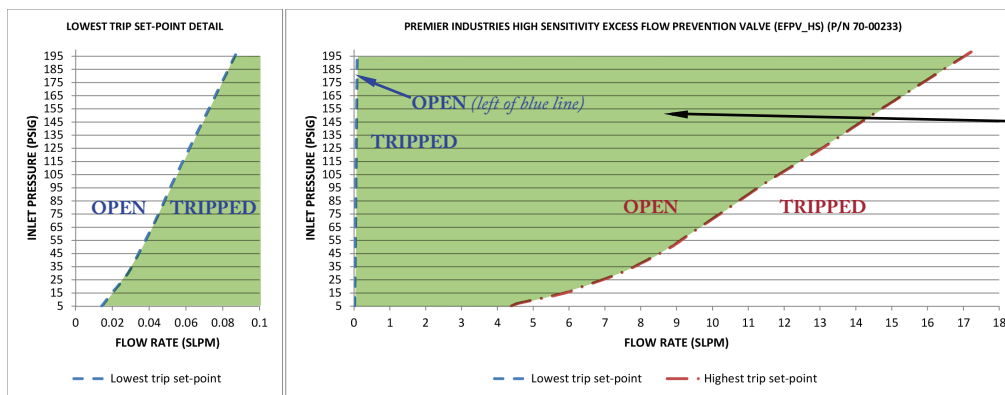
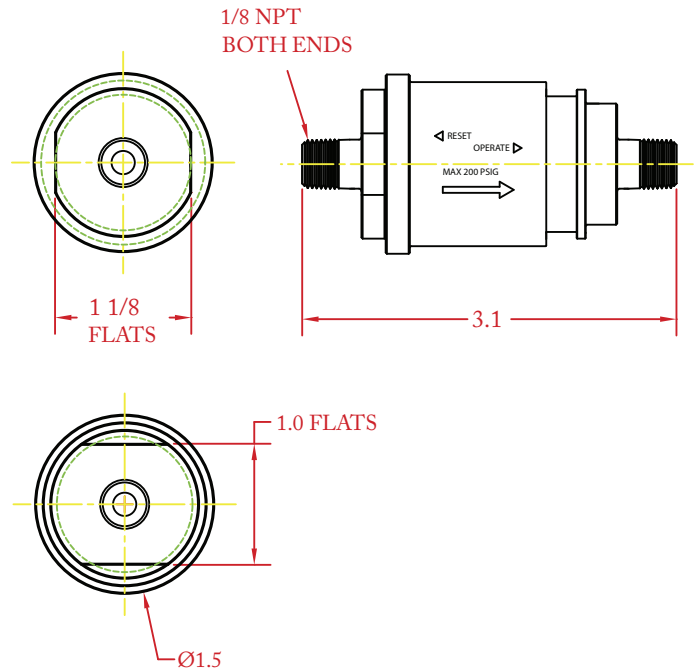
PORTING

- **INLET CONNECTION:**
 - 1/8-27 NPT
- **OUTLET CONNECTION:**
 - 1/8-27 NPT

OPTIONS

- Anodized Colors for Aluminum Bodies
- Private Label

PART NUMBER: 70-00233



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