PREMIER INDUSTRIES

EXCESS FLOW VALVES

Miniature, High Pressure, High Sensitivity

Excess Flow Prevention Valves

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.

PREMIER INDUSTRIES

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®

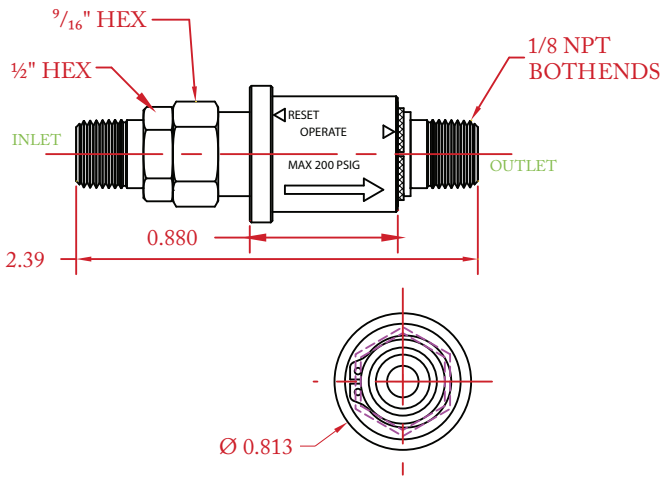
PORTING

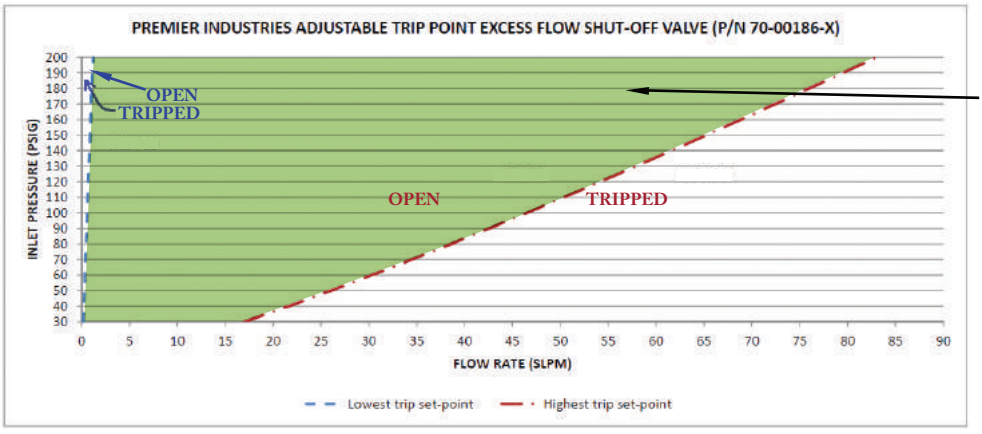
- **INLET CONNECTION**:
  - 1/8-27 NPT
- **OUTLET CONNECTION**:
  - 1/8-27 NPT

OPTIONS

- Anodized Colors for Aluminum Bodies
- Private Label

PART NUMBER: 70-00186





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

Flow rates indicated reflect valve capabilities using nitrogen gas.

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.

PREMIER INDUSTRIES

HIGH PRESSURE

EFPV_HP
Excess Flow Prevention Valves

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

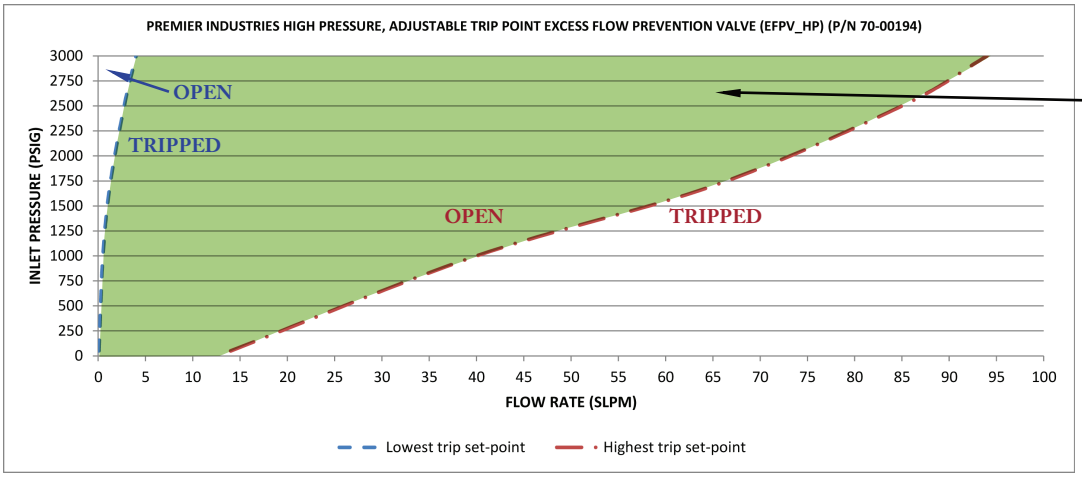
- **BODY/ADAPTOR MATERIAL OPTIONS**:
  - 6061-T6 Aluminum, clear anodized
  - 303 Stainless Steel
- **PISTON**: 303 Stainless Steel
- **NEEDLE VALVE**: 18-8 Stainless Steel
- **BYPASS STEM AND NUT**: 303 stainless steel
- **BYPASS VALVE KNOB**:
  - 6061-T6 Aluminum/black anodized
- **SPRING**: 300 series 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



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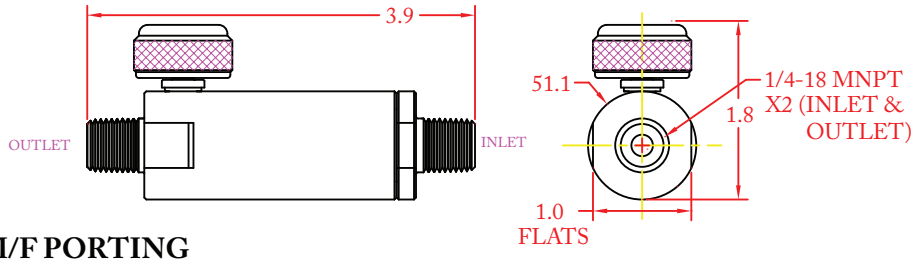
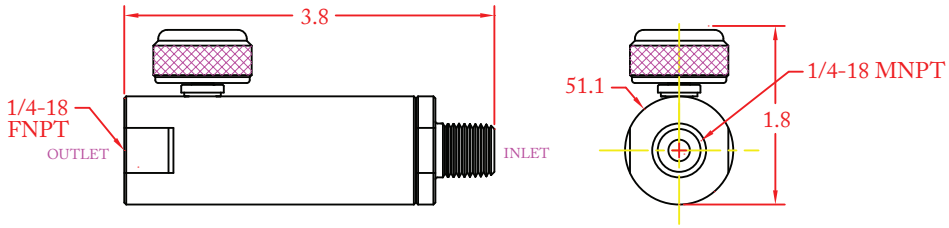
PART NUMBER: 70-00194

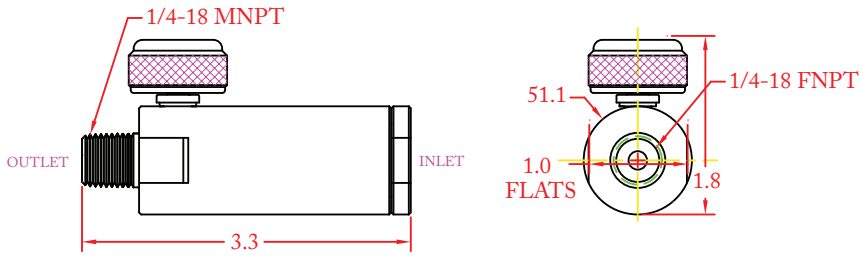
M/M PORTING



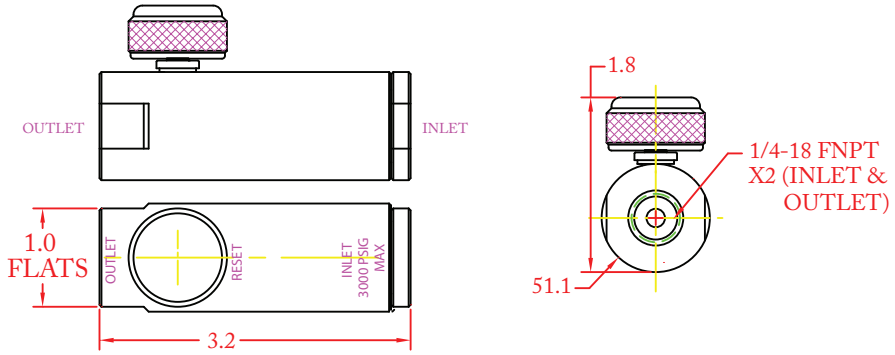
M/F PORTING



F/M PORTING



F/F PORTING



HIGH PRESSURE

EFPV_HP
Excess Flow Prevention Valves

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

1	BODY MATERIAL *& FINISH*
1	6061-T6 Aluminum, *Clear Anodized*
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

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PREMIER INDUSTRIES

HIGH SENSITIVITY

EFPV_HS
Excess Flow Prevention Valves

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

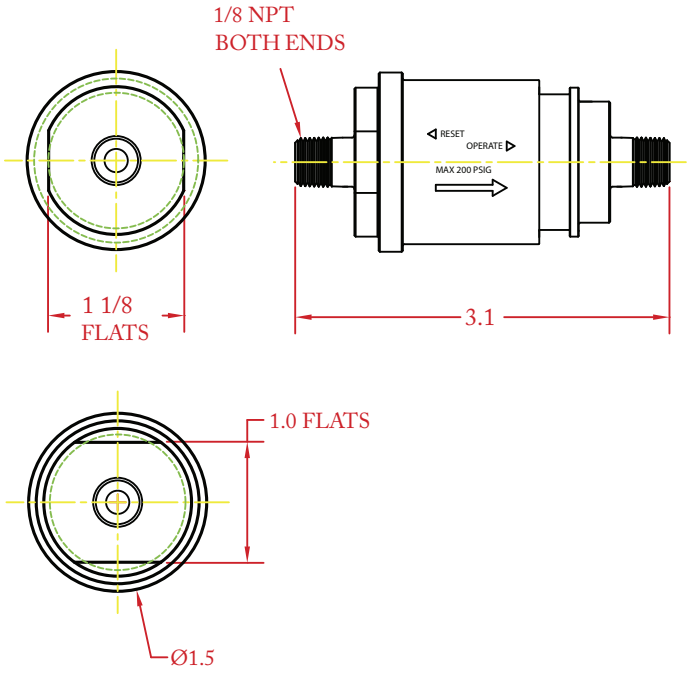
PORTING

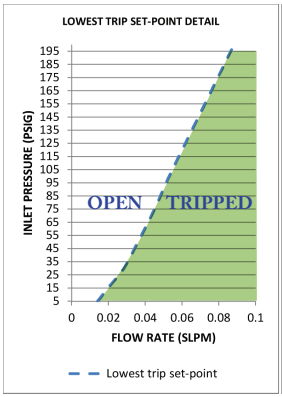
- **INLET CONNECTION**:
  - 1/8-27 NPT
- **OUTLET CONNECTION**:
  - 1/8-27 NPT

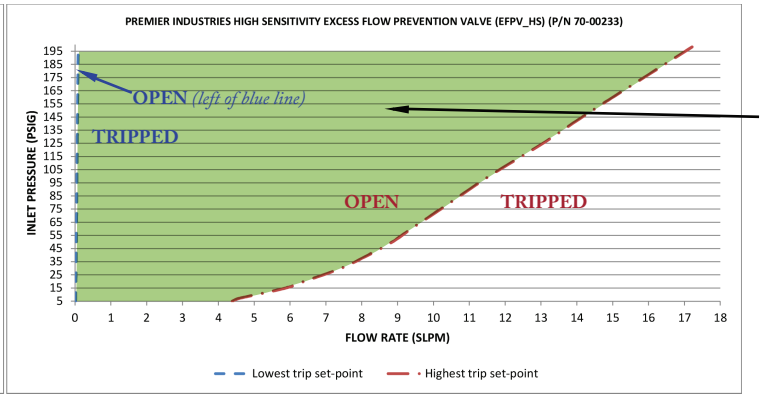
OPTIONS

- Anodized Colors for Aluminum Bodies
- Private Label

PART NUMBER: 70-00233







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