

Features

- ▶ Ultra high flow
- ▶ Extended seat life
- ▶ Factory pre-set or field adjustable
- ▶ Optional tamper-proof cap
- ▶ Stainless steel internals
- ▶ Metal-to-metal seal

Applications

- ▶ Pump system safety
- ▶ Hydraulic power units
- ▶ Tank protection
- ▶ Accumulator systems



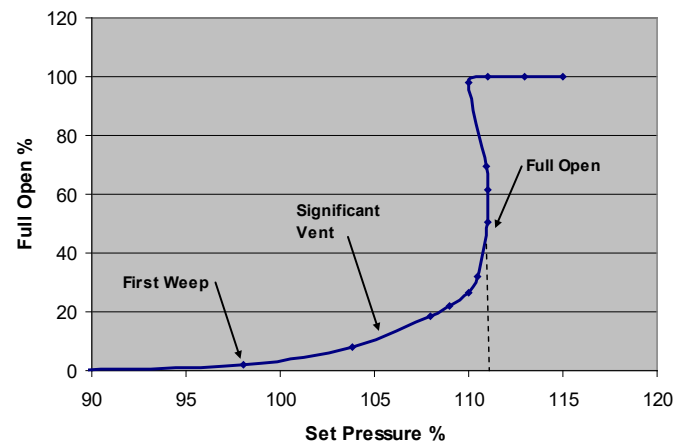
General Specifications*

| | |
|---------------------------------|---|
| Working Pressure: | Hydraulic oil up to 5500 psi (380 bar) |
| Process Fitting Proof Pressure: | 10,000 psi (690 bar) |
| Max Housing Back Pressure: | 1000 psi (69 bar) |
| Pressure Ranges: | 500 - 1500 psi (35 - 105 bar) 1600 - 3500 psi (110 - 240 bar) 3600 - 5500 psi (248 - 380 bar) |
| Maximum Flow Rate: | 80 GPM |
| Wetted Material: | Heat-treated 410 stainless steel |
| Process Fitting: | Heat-treated 410 stainless steel |
| Adjustment Stud: | 316 stainless steel |
| Washer: | 304 stainless steel |
| Spring Retainer: | 416 stainless steel |
| Spring: | Powder-coated high strength steel |
| Ball: | Tungsten carbide |
| Housing: | Powder-coated ductile iron |
| Weight: | 2.5 lbs. |
| Pressure Connection: | 3/4" NPTM x 3/4" NPTF |
| Orifice Size: | 0.318" (typical) |
| Temperature Range: | -40° to +200°F (-40° to +93°C) |
| Pressure Settings: | It is recommended that cracking pressure be set 10% above working pressure. |

Pressure Setpoint Adjustment:

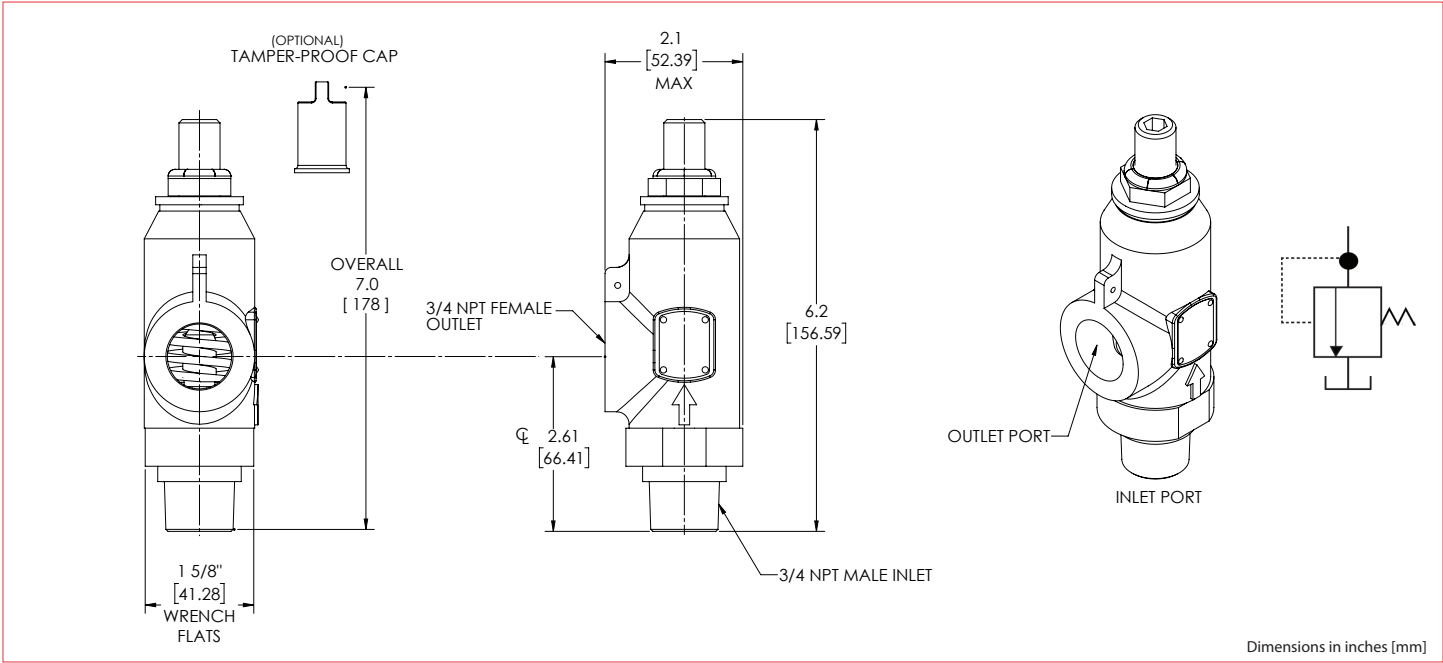
Loosen hex nut with open-end wrench. Using allen key turn adjustment screw clockwise to increase, counterclockwise to decrease set point.

Typical 8024 Lift Characteristics



* See product configurator for additional options.

Technical Drawings



Product Configurator

Example:

802

4

-3

-33

Prefix

T

Tamper-proof cap (optional)*

Base Model

802

Inlet male - outlet female porting

Port Size

4

3/4" NPT ports

Pressure Range

| | Adjustable Range | | Approx. Blowdown | Proof Pressure | Tolerance |
|----|------------------|------------|------------------|----------------|-----------|
| | psi (bar) | | | | |
| | Min. | Max. | psi (bar) | psi (bar) | psi (bar) |
| -2 | 500 (35) | 1500 (105) | 200 (15) | 10,000 (690) | ±150 (10) |
| -3 | 1600 (110) | 3500 (240) | 400 (28) | 10,000 (690) | ±350 (24) |
| -4 | 3600 (248) | 5500 (380) | 600 (42) | 10,000 (690) | ±550 (38) |

Housing

Blank

Corrosion Resistant Ductile Iron (standard)

Factory Set Point

Blank

Field Adjustable

-XX

Insert set point**
Example: 3370 psi = -34
3310 psi = -33
700 psi = -07

** Set point: round to the nearest hundred.

*Tamper-proof cap option requires the factory to set relief pressure.