

# Valve

## Pressure Relief Valve

Series 8010

### Features

- ▶ 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\*

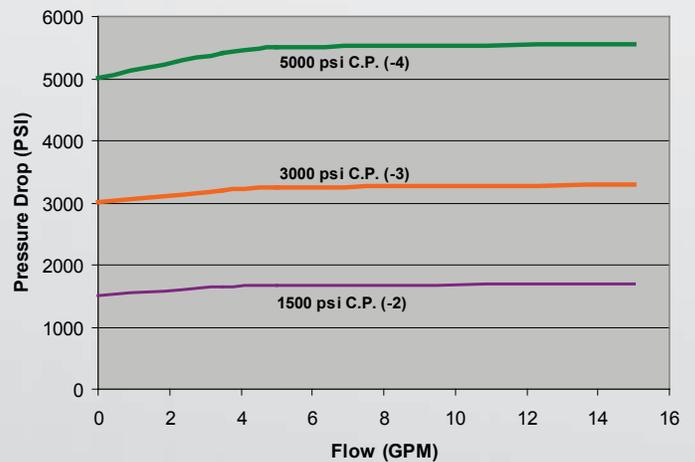
<b>Working Pressure:</b>	Hydraulic oil up to 5500 psi (380 bar)
<b>Process Fitting Proof Pressure:</b>	10,000 psi (690 bar)
<b>Max Housing Back Pressure:</b>	1000 psi (69 bar)
<b>Pressure Ranges:</b>	500 - 1500 psi (35 - 105 bar) 1600 - 3500 psi (110 - 240 bar) 3600 - 5500 psi (248 - 380 bar)
<b>Maximum Flow Rate:</b>	15 GPM
<b>Wetted Material:</b>	
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
<b>Weight:</b>	2.5 lbs.
<b>Pressure Connection:</b>	3/4" NPTM x 3/4" NPTF
<b>Orifice Size:</b>	0.318" (typical)
<b>Temperature Range:</b>	-40° to +200°F (-40° to +93°C)
<b>Pressure Settings:</b>	It is recommended that cracking pressure be set 10% above working pressure.



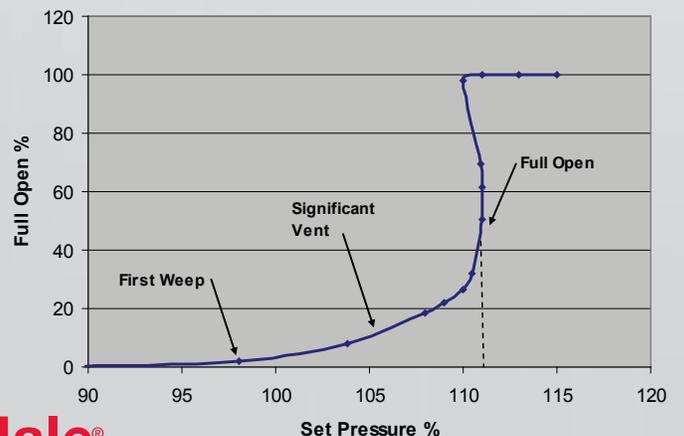
### Pressure Setpoint Adjustment:

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

Flow Rate at 10% above Cracking Pressure

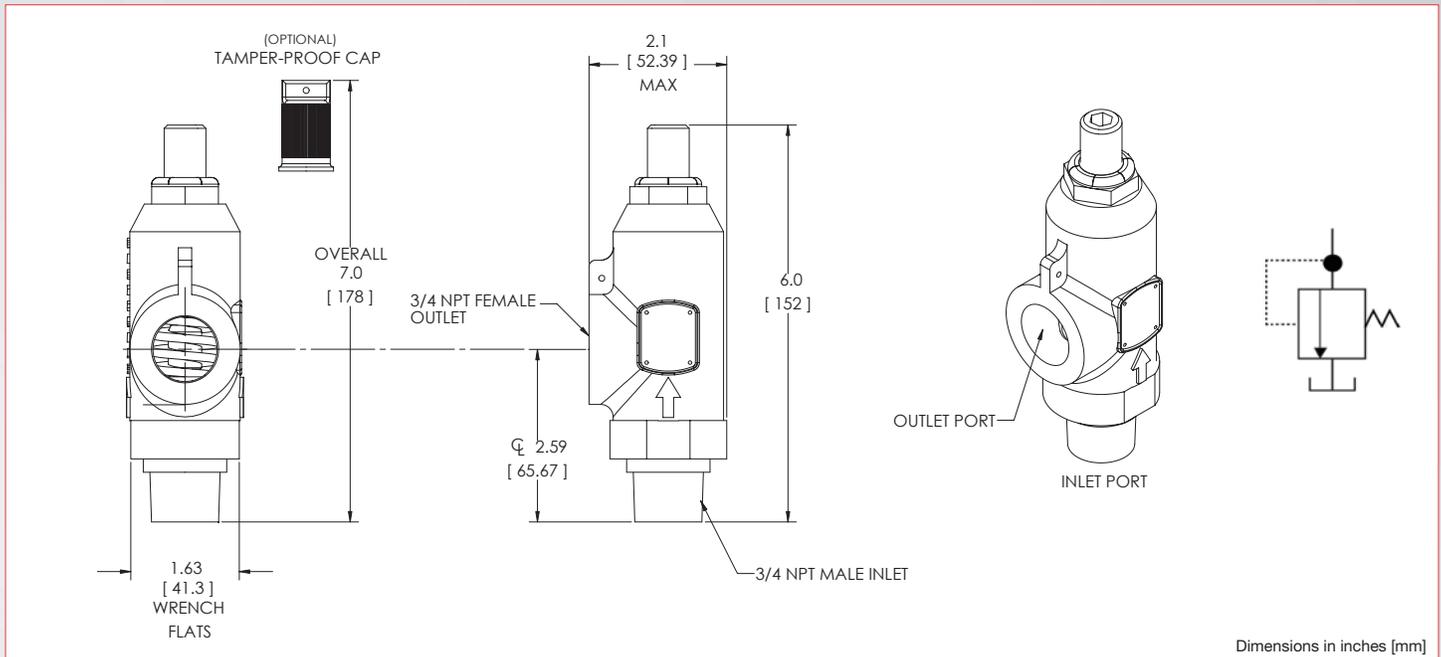


Typical 8014 Lift Characteristics



\* See product configurator for additional options.

## Technical Drawings



## Product Configurator

Example:

### Prefix

Tamper-proof cap (optional)\*

### Base Model

Inlet male - outlet female porting

### Port Size

3/4" NPT ports

### Pressure Range

	Adjustable Range		Approx. Blowdown	Proof Pressure	Tolerance
	psi (bar)				
	Min.	Max.			
-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

Corrosion Resistant Ductile Iron (standard)

### Factory Set Point

<input type="text" value="Blank"/>	Field Adjustable
<input type="text" value="-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.