



Pop-Off Valve

1/4" Models	30960
	30961
	33961
3/8" Models	33960
	33962

FEATURES

- Special hardened Stainless Steel seat and “Acetal” needle valve eliminates weeping.
- Lightweight, compact design quickly and conveniently mounts directly into discharge line.
- Provides back-up protection to assure complete pressure relief for maximum pump and system protection.

CAUTION

All systems require both a primary pressure regulating device (i.e., regulator, unloader) and a secondary pressure safety relief device (i.e., pop-off valve, safety valve). Failure to install such relief devices could result in personal injury or damage to the pump or to system components. CAT PUMPS does not assume any liability or responsibility for the operation of a customer's high pressure system.

SPECIFICATIONS

	U.S. Measure	Metric Measure
MODEL 30960		
System Pressure Range.....	300-1500 PSI	(20-105 BAR)
Inlet Port.....	1/4" NPTM	(1/4" NPTM)
MODEL 33960		
System Pressure Range.....	300-1500 PSI	(20-105 BAR)
Inlet Port.....	3/8" NPTM	(3/8" NPTM)
MODEL 30961		
System Pressure Range.....	1000-3000 PSI	(70-210 BAR)
Inlet Port	1/4" NPTM	(1/4" NPTM)
MODEL 33961		
System Pressure Range.....	1000-4000 PSI	(70-275 BAR)
Inlet Port.....	1/4" NPTM	(1/4" NPTM)
MODEL 33962		
System Pressure Range.....	1000-4000 PSI	(70-275 BAR)
Inlet Port.....	3/8" NPTM	(3/8" NPTM)

COMMON SPECIFICATIONS

Maximum Flow	6.0 GPM	(23 L/M)
Maximum Temperature.....	180°F	(82°C)
Barb.....	3/4"	(3/4")
Weight.....	2.96 oz.	(0.84 kg)
Dimensions.....	0.75 x 2.375"	(19 x 60 mm)

“Customer confidence is our greatest asset”

SELECTION: Select a Pop-Off Valve to meet or exceed the flow and pressure requirements of the system. The valve with the **Blue** spring covers the 1000-3000 PSI range, the **Silver** spring covers the 300-1500 range and the **Red** spring covers the 1000-4000 PSI range.

INSTALLATION: The Pop-Off Valve should be mounted in the discharge line **before any pressure regulator or unloader in the system** to provide optimum protection. The by-pass from the Pop-Off Valve may be returned to the reservoir or drain to the floor. By-pass returned to the inlet of the pump should be done with caution to avoid pressure spikes or excessive heat build-up from recirculating liquids. Following final pressure adjustment, attach a hose over the barb end of the Pop-Off Valve and commence operation.

OPERATION: The adjustment screw is internal on this Pop-Off Valve. Using a 1/4" allen wrench, the pressure setting may be **increased** by turning **clockwise** or **decreased** by turning **counter-clockwise**.

The Pop-Off Valve should be set in **small** increments. The **minimum pressure setting** is with the **adjustment screw flush** with the **barb end**.

Check your pressure gauge following each adjustment. It may be convenient to **set your regulating device** for the system working pressure in **small** increments as you are setting the Pop-Off Valve.

The final adjustment for the Pop-Off Valve should be set to relieve at approximately **200 PSI above the system working pressure**.

REMEMBER, THE POP-OFF VALVE IS A SECONDARY SAFETY DEVICE. IT DOES NOT REPLACE A PRESSURE REGULATOR OR UNLOADER.

PARTS LIST

P/N	MATL	DESCRIPTION	QTY
30953	S	Valve Seat	1
30954	D	Valve, Needle	1
33954	SSS	<i>Valve, Needle</i>	1
30956	S	Spring, Silver (1500 PSI)	1
30957	S	Spring, Blue (3000 PSI)	1
33957	S	Spring, Red (4000 PSI)	1
—	BB	Body - 1/4" NPTM	1
—	BB	Body - 3/8" NPTM	1
30959	BB	Adjustment Screw	1

Add .S to above models for Stainless Steel Needle Valve.

Italics are optional items

Material Codes (Not Part of Part No.):

BB=Brass D=Delrin® S=304SS SS=440SS SSS=416SS

TROUBLESHOOTING

Valve cycles	<ul style="list-style-type: none"> Valve is improperly set. Repeat adjustment procedure.
Valve continually by-passes	<ul style="list-style-type: none"> Seat or needle valve is worn. Replace as needed.

WARRANTY

90 Day Warranty

Refer to complete CAT PUMPS Warranty for further information.

Products described hereon are covered by one or more of the following U.S. patents 3558244, 3652188, 3809508, 3920356, 3930756 and 5035580

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