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Pop-Off Valves Standard Models 30960,30961 33960,33961 33962

High Temperature Models 33960S,33961S 33962S

FEATURES

- Special hardened stainless steel seat and "Acetal" needle valve or stainless steel seat and 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.

▲ CAUTIONS AND WARNINGS

All High Pressure Syst ems require a primary pressure regulating device (i.e. regulator, unloader) and a secondar y pressur e relief device (i.e. pop-off valve, relief valve). Failure to install such relief devices could result in personal injury or damage to pump or property. CAT PUMP S does not assume any liability or responsibili ty for the operation of a customer's high pressure system.

Read all CA UTIONS and WARNINGS before commencing service or operation of any high pressure system. The CAU TIONS and WARNINGS are included in each service manual and with each Ac cessor y Data sheet. CA UTIONS and WARNINGS can also be viewed online at www.catpumps.com/cautions-warnings or can be requested directly from CAT P UMPS.

WARRANTY

View the Limited Warranty on-line at www.catpumps.com/warranty.

SPECIFICATIONS

U.S. Measure	Metric Measure
MODEL 30960	
System Pressure Range 300-1500 psi	(20-105 bar)
Inlet Port1/4" NPTM	(1/4" NPTM)
MODEL 33960, 33960S	
System Pressure Range	(20-105 bar)
Inlet Port3/8" NPTM	(3/8" NPTM)
MODEL 30961	
System Pressure Range 1000-3000 psi	(70-210 bar)
Inlet Port1/4" NPTM	(1/4" NPTM)
MODEL 33961, 339615	
System Pressure Range 1000-4000 psi	(70-275 bar)
Inlet Port1/4" NPTM	(1/4" NPTM)
MODEL 33962, 33962S	
System Pressure Range 1000-4000 psi	(70-275 bar)
Inlet Port3/8" NPTM	(3/8" NPTM)
COMMON SPECIFICATIONS	
Maximum Flow6.0 gpm	(23 lpm)
Maximum Operating Temperatures:	
Standard Models180°F	(82°C)
High Temperature Models240°F	(116°C)
Barb3/4"	(3/4")
Weight2.96 oz.	(0.84 kg)
Dimensions0.75 x 2.375"	(19 x 60 mm)

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 psi 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. On pumps with a modular unloader, replace one valve plug with a special plug with a 1/4" or 3/8" tapped port and thread in the pop-off valve. The exit flow from the popoff valve should be returned to a reservoir or drain to the floor, not to the inlet of the pump. 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 popoff valve. Using a 1/4" allen wrench, the pressure setting may be **increased** by turning **clockwise** or **decreased** by turning **counterclockwise**.

SETTING: Before system is brought up to pressure ensure that the primary pressure regulating device is set at its minimum setting. Adjust the pop-off valve to a high pressure setting by turning the adjustment screw approximately 1/2" from flush. Bring your system up to desired pressure using the primary pressure device. **NOTE: If the Pop-Off Valve relieves water in this process increase its setting**. With your system operating at full pressure with the primary pressure device, slowly back the pop-off adjustment screw until a small amount of water is dripping. Immediately adjust in 1/2 turn at a time until dripping stops; (no more than [3] 1/2 turns should be required). The pop-off valve is now set at approximately 10% over system 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
31135	S	Seat	1
76974	S	Valve, Needle (33960S, 33961S, 33962S)) 1
31128	D	Valve, Needle	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

Material Codes (Not Part of Part No.): BB=Brass D=Acetal S=304SS







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The Pumps with Nine Lives

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