DATA SHEET

STAINLESS STEEL POP-OFF VALVE



Standard Models: **9960, 9961, 9962**

High Temp **9960S, 9961S, 9962S**

Models:



COMMON

SPECIFICATIONS	U.S.	Metric		
Flow Range	1-6 gpm	3.8-23 lpm		
Inlet Port	1/4" NPT(M)	1/4" NPT(M)		
Maximum Operating Temperatures:				
Models 9960, 9961, 9962	180° F	82° C		
Models 9960S, 9661S, 9962S	240° F	116° C		
Barb	3/4"	3/4"		
Weight	2.79 oz	0.8 kg		
Dimensions	0.75x2.375"	19x60 mm		

Note: Models with suffix "S" have stainless steel needle valve and seat.

SELECTION

Select a pop-off valve to meet or exceed the flow and pressure requirements of the system. The valve with the silver spring covers the 300-1500 psi range, the blue spring covers the 1000-3000 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. The exit flow from the pop-off 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

This pop-off valve provides back-up protection to the primary relief valve for complete pressure relief and maximum pump and system protection.

FEATURES

- Special hardened stainless steel seat and acetal needle valve or a high temperature version stainless steel seat and needle valve eliminates weeping.
- Lightweight, compact design quickly and conveniently mounts directly into discharge line.
- Provides back-up protection as a secondary relief valve to assure complete pressure relief for maximum pump and system protection.

FICATIONS U.S. Measure Metr		
300-1500 psi	20-105 bar	
1650 psi	114 bar	
1000-3000 psi	70-210 bar	
3300 psi	228 bar	
1000-4000 psi	70-275 bar	
4400 psi	303 bar	
	300-1500 psi 1650 psi 1000-3000 psi 3300 psi	

PRESSURE ADJUSTMENT

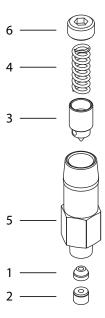
Before system is brought up to pressure ensure that the primary pressure regulating device is set at its minimum setting. The adjustment screw is internal on this pop-off valve. Using a 1/4" allen wrench, the pressure setting may be **increased** by turning **clockwise** or **decreased** by turning **counterclockwise**. 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.

Note: the pop-off valve is a secondary safety device, it does not replace a pressure regulator or unloader.

EXPLODED VIEW



PARTS LIST

ITEN	1 DESCRIPTION	P/N	MATL	QTY
1	Seat	76934	STB	1
2	Retainer, Seat	76954	S	1
3	Valve, Needle (9960, 9961, 9962)	31128	D	1
	Valve, Needle (9960S, 9961S, 9962S)	76974	S	1
4	Spring, Silver (1500 PSI)	30956	S	1
	Spring, Blue (3000 PSI)	30957	S	1
	Spring, Red (4000 PSI)	33957	S	1
5	Body - 1/4" NPT(M)	_	SS	1
6	Adjuster, Pressure	30959	BB	1

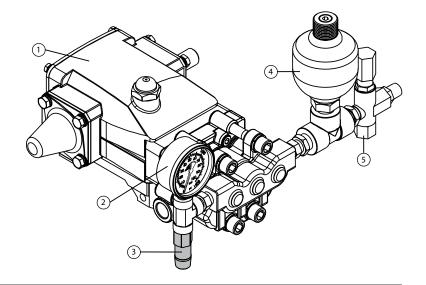
Material Codes (Not Part of Part No.): BB=Brass D=Acetal S=304SS SS=316SS STB=Special Blend PTFE

TROUBLESHOOTING

Valve cycles	Valve is improperly set. Repeat adjustment procedure.
Valve continually by-passes	Seat or retainer is worn. Replace as needed.

TYPICAL POP-OFF VALVE INSTALLATION

- 1. Triplex Plunger Pump
- 2. Pressure Gauge
- 3. Pop-off Valve (secondary relief valve)
- 4. Pulsation Dampener
- 5. Pressure Sensitive Regulating Unloader



△ CAUTIONS AND WARNINGS

All High Pressure Systems require a primary pressure regulating device (i.e. regulator, unloader) and a secondary pressure 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 Pumps does not assume any liability or responsibility for the operation of a customer's high pressure system.

Read all CAUTIONS and WARNINGS before commencing service or operation of any high pressure system. The CAUTIONS and WARNINGS are included in each service manual and with each Accessory Data sheet. CAUTIONS and WARNINGS can also be viewed online at www.catpumps.com/cautions-warnings or can be requested directly from Cat Pumps.

WARRANTY

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



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1681 - 94TH LANE N.E. MINNEAPOLIS, MN 55449-4324 PHONE (763) 780-5440 — FAX (763) 780-2958 e-mail: techsupport@catpumps.com www.catpumps.com