DATA SHEET
POP-OFF VALVE

The Pumps with Nine Lives

Brass Model: **9940**

Stainless Steel Model: **9941**



FEATURES

- 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.

SPECIFICATIONS	U.S. Measure	Metric Measure
Flow Range	0-25 gpm	0-95 lpm
System Pressure Range	1000-4000 psi	70-275 bar
Maximum relief setting	4400 psi	303 bar
Maximum Operating Temp	180°F	82°C
Inlet Port	3/4" NPT(M)	3/4" NPT(M)
Barb	1.0"	1.0"
Weight	9.6 oz.	.27 kg
Dimensions	1.125 x 3.500"	28.6 x 88.9 mm

SELECTION
Select a pop-off valve to meet or exceed the flow and pressure requirements of the system.

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.

PRESSURE ADJUSTMENT
Before system is brought up to pressure ensure that the primary pressure regulating device is set at its minimum setting. The pressure setting may be **increased** by turning **clockwise** or **decreased** by turning **counterclockwise**. Hand-thread the lock nut towards the 3/4" NPT(M) inlet port. Then slide the o-ring down to the lock nut. Adjust the pop-off valve to a high pressure setting by turning the adjusting barb approximately 1/2". Bring your system up to desired pressure using the primary pressure device.

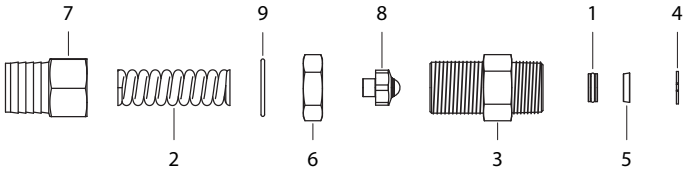
NOTE: If the pop-off valve relieves water in this process increase its setting.

With your system operating at full pressure with the primary pressure device, slowly back the pop-off adjusting barb 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). Slide o-ring up to the adjusting barb and then hand-thread lock nut up to o-ring and adjusting barb so o-ring is fully compressed.

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

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

EXPLODED VIEW



PARTS LIST

ITEM	DESCRIPTION	9940 BB P/N	9940 BB MATL	9941 SS P/N	9941 SS MATL	QTY
1	Seat, w/O-Ring	**31205**	**NBR**	**76567**	**SS**	1
2	Spring, Pressure	33329	STZP	33329	STZP	1
3	Body, Inlet (3/4" NPT(M))	**76528**	**BB**	**76569**	**SS**	1
4	Ring, Retaining	76529	SSS	76529	SSS	1
5	Spacer, Seat	**76530**	**BB**	**76570**	**SS**	1
6	Nut, Lock	**76531**	**BB**	**76571**	**SS**	1
7	Barb, Adjusting (1")	**76532**	**BB**	**76572**	**SS**	1
8	Retainer, Spring - w/ Ball	**76533**	**BB**	**76573**	**SS**	1
9	O-Ring, Barb-70D	76125	NBR	76125	NBR	1

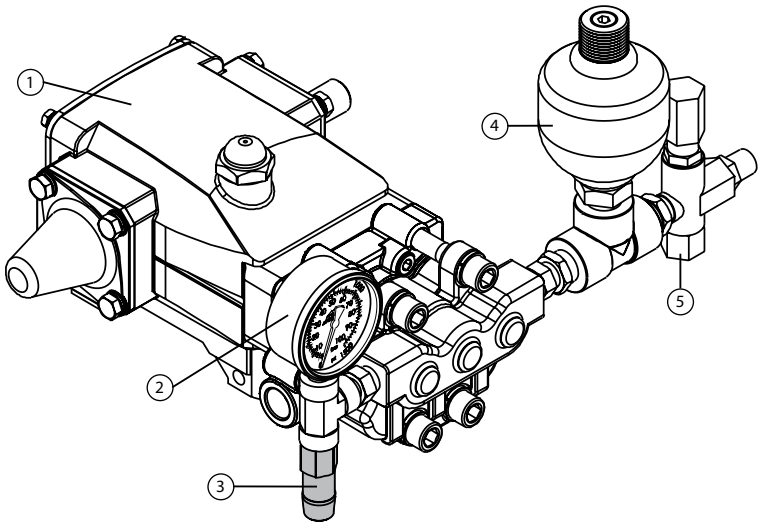
Material Codes (Not Part of Part No.):
BB=Brass NBR=Medium Nitrile SS=316 SS SSS=416 SS
STZP=Steel/Zinc Plated

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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