



FEATURES

- Features all stainless and brass internal parts.
- New design reduces sensitivity to entrapped air.
- No external moving parts or springs.
- Eliminates high pressure in all lines while unit is in bypass mode
- Unique balanced piston design permits precise pressure adjustment.
- Simple design for easy maintenance and service.

SPECIFICATIONS

Part Number	ZK70	ZK71	190079 (ZK71 with #0 Bypass Orifice)	ZK72	190009 (ZK72 with #1 Bypass Orifice)	ZK73	190361 (ZK73 with #2 Bypass Orifice)
Max Volume GPM	2.1-2.9	2.9-4.2	3.0 to 4.2	4.2-6.6	4.2 to 6.6	6.6-10.8	6.6 to 10.8
Max Discharge Pressure*	3,500 PSI						
Max Temp	165° F						
Port Size	Inlet:	3/8 BSP-F					
	Bypass:	3/8 BSP-M					
	Outlet:	3/8 BSP-F					
Dimensions	4.5" x 3.75" x 3.5"						
Weight	4.5 lbs.						

* Maximum pressure 3500 PSI when valve is marked GPV. Unmarked valves are 3000 PSI rated.

INSTALLATION

Select an unloader appropriate for the pressure and flow of your system (see specification chart). This unloading valve is a flow-through design and should be mounted on the discharge line of the pump in any position (horizontal or vertical) which allows easy access to the adjusting bolt. A pressure gauge should be installed on either side of the body unloader to accurately read pressure during adjustment.

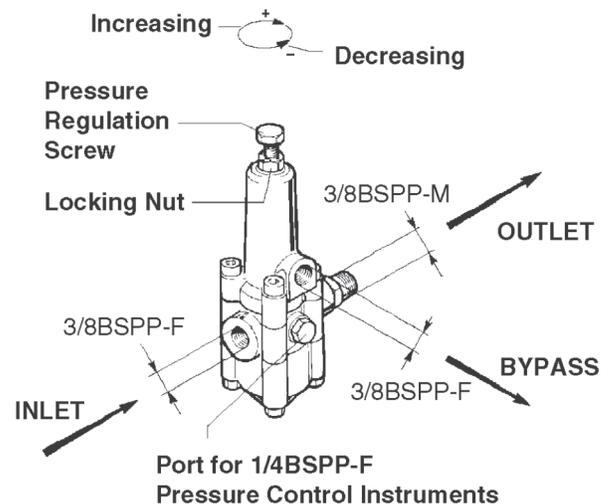
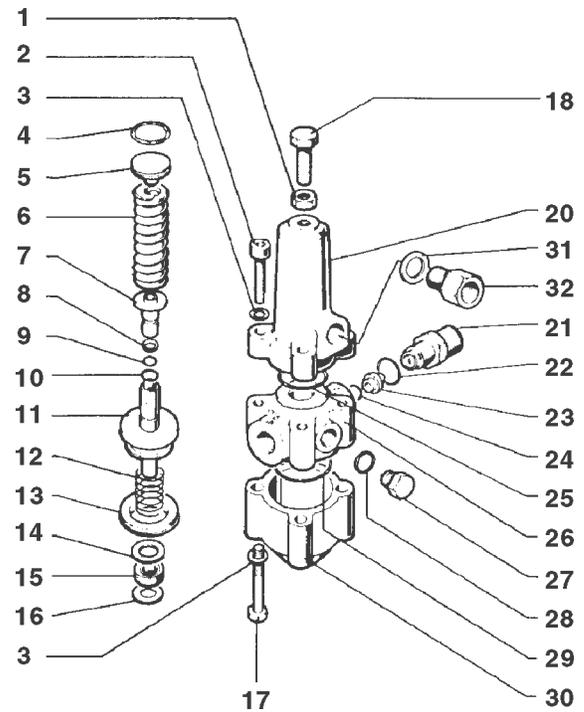
Minumum 5% bypass is required for proper operation.

General Pump recommends using a safety relief device in conjunction with this unloader valve when installed on a positive displacement pump. General Pump is not liable and assumes no responsibility when used in a customer's high pressure system.

Flow Sensitive Unloader

PARTS LIST

No.	Part No	Description	QTY.
1.	92236800	Nut	1
2.	99308400	Screw	4
3.	96701400	Washer	8
4.*	90384900	O-Ring	1
5.	36309570	Spring Plate	1
6.	94746600	Spring	1
7.*	36309466	Seat Seal	1
8.*	90505200	Anti-Extrusion Ring	1
9.*	90382000	O-Ring	1
10.*	90358200	O-Ring	1
11.*	36309702	Piston Assembly	1
12.*	94746400	Spring	1
13.*	90276600	Packing	1
14.	96721500	Washer	1
15.*	90256500	Packing	1
16.*	90506300	Anti-Extrusion Ring	1
17.	99312700	Screw	4
18.	99366300	Screw	1
20.	36309041	Upper Body	1
21.	10007870	ZK7.0, Nipple, 3/8 BSP, Ø3.0 mm	1
	10007870	ZK7.1, Nipple, 3/8 BSP, Ø3.0 mm	1
	10016070	ZK7.2, Nipple, 3/8 BSP, Ø3.25 mm	1
	10016170	ZK7.3, Nipple, 3/8 BSP, Ø3.5 mm	1
22.*	90383300	O-Ring	1
23.	10007666	ZK7.0, Nozzle, Ø2.2 mm	1
	10007766	ZK7.1, Nozzle, Ø2.5 mm	1
	10016266	ZK7.2, Nozzle, Ø2.75 mm	1
	10016366	ZK7.3, Nozzle, Ø3.0 mm	1
24.*	90382300	O-Ring	1
25.*	90386300	O-Ring	1
26.	36309141	Central Body	1
27.	98204100	Cap Screw	2
28.*	90358500	O-Ring	2
29.*	90387100	O-Ring	1
30.	36309241	Lower Body	1
31.	96738000	Washer	1
32.	36311770	ZK7.0, 3/8 BSPP, Ø2.95 mm	1
	36311670	ZK7.1, 3/8 BSPP, Ø4.0 mm	1
	36311870	ZK7.2, 3/8 BSPP, Ø5.0 mm	1
	36311970	ZK7.3, 3/8 BSPP, Ø7.5 mm	1
*	K70	ZK7 Repair Kit	



WARNING: 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 properly could result in personal injury or damage to pump or property. GP does not assume any liability or responsibility for the operation of the user's high pressure system.



WARNING: This product can expose you to chemicals including lead, which is known to the state of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov