

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 BSF	P-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.





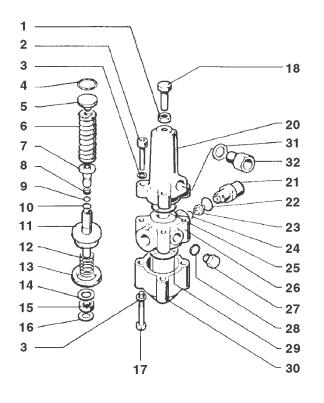


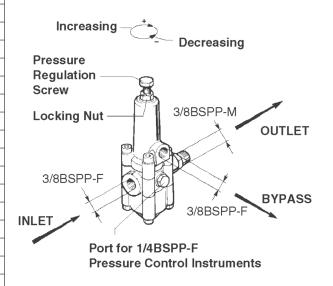
Flow Sensitive Unloader

PARTS LIST

No. Part No Description QTY. 1. 92236800 Nut 1 2. 99308400 Screw 4 3. 96704400 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 11.* 36309702 Piston Assembly 1 12.* 94746400 Spring 1 13.* 90276600 Packing 1 14. 96721500 Washer 1 15.* 90256500 Packing 1 16.*		3 LI3 I		
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23.		10016170	ZK7.3, Nipple, 3/8 BSP, Ø3.5 mm	1
23. 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 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, Ø5.0 mm 1 36311970 ZK7.3, 3/8 BSPP, Ø5.0 mm 1	22.*	90383300	O-Ring	1
23. 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 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, Ø5.0 mm 1		10007666	ZK7.0, Nozzle, Ø2.2 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 36311770 ZK7.0, 3/8 BSPP, Ø2.95 mm 1 36311870 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, Ø5.0 mm 1	23.	10007766	ZK7.1, Nozzle, Ø2.5 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 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		10016266	ZK7.2, Nozzle, Ø2.75 mm	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 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		10016366	ZK7.3, Nozzle, Ø3.0 mm	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 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	24.*	90382300	O-Ring	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 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	25.*	90386300	O-Ring	1
28.* 90358500 O-Ring 2 29.* 90387100 O-Ring 1 30. 36309241 Lower Body 1 31. 96738000 Washer 1 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	26.	36309141	Central Body	1
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	27.	98204100	Cap Screw	2
30. 36309241 Lower Body 1 31. 96738000 Washer 1 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	28.*	90358500	O-Ring	2
31. 96738000 Washer 1 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	29.*	90387100	O-Ring	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	30.	36309241	Lower Body	1
32. 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	31.	96738000	Washer	1
32. 36311870 ZK7.2, 3/8 BSPP, Ø5.0 mm 1 36311970 ZK7.3, 3/8 BSPP, Ø7.5 mm 1	32.	36311770	ZK7.0, 3/8 BSPP, Ø2.95 mm	1
36311870 ZK7.2, 3/8 BSPP, Ø5.0 mm 1 36311970 ZK7.3, 3/8 BSPP, Ø7.5 mm 1		36311670	ZK7.1, 3/8 BSPP, Ø4.0 mm	1
		36311870	ZK7.2, 3/8 BSPP, Ø5.0 mm	1
* K70 ZK7 Repair Kit		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 know to the state of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov

