

YVB75KDMN21

Pressure Trapping Unloader w/Adjustable Injector



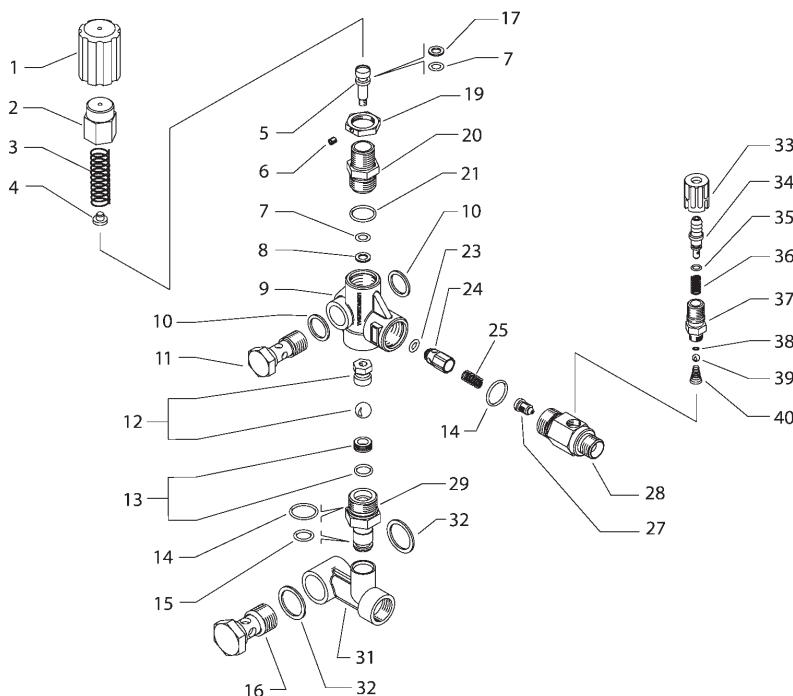
SPECIFICATIONS

Part Number	YVB75KDMN21	
Operating Pressure	3200 PSI	
Maximum Pressure	3650 PSI	
Maximum Flow	8.0 GPM	
Maximum Temperature	195°F	
Port Size:	Inlet	1/2" BSPP-F
	Discharge	3/8" BSPP-M
Banjo Size:	Inlet	1/2" BSPP-M
	Discharge	3/8" BSPP-M
Dimensions	3.8" x 1.8" x 5.7"	
Weight	1.89 lb.	
Material	Brass, Stainless Steel, Plastic, Buna-N	

General Pump recommends using a safety relief device in conjunction with this unloader valve when installed on a positive displacement pump. General Pump assumes no responsibility for this valve when used in a customer's high pressure system.

PARTS LIST

No.	Part No.	Kit	Description	Qty.
KIT	Y60071924	*	Unloader Repair Kit (Valve Only)	1
1.	Y60031584		Plastic knob	1
2.	Y60030431		Brass cap	1
3.	Y60031361		White spring	1
4.	Y60031061		Spring seat, zincplated	1
5.	Y60070451		S.S. piston	1
6.	Y16210000		Grub screw M4x4	1
7.	Y10316900	*	O-ring 2.62 x 6.02 mm	2
8.	Y10402400	*	Backup ring 11.6 x 7 mm	1
9.	Y60078435		Brass valve body	1
10.	Y14410000		Washer 3/8 Bsp rubber + steel	2
11.	Y60100731		Hollow screw 3/8 Bsp	1
12.	Y60170821	*	S.S. shutter M6	1
13.	Y60025920	*	Seat assy	1
14.	Y10307002	*	O-ring 1.78 x 18.77 mm	2
15.	Y10310996		O-ring 2.4 x 10.3 viton	1
16.	Y60100831		Hollow screw 1/2 Bsp	1
17.	Y10402300	*	Backup ring 11 x 64 mm	1
19.	Y60101831		Lock nut M18x1	1
20.	Y60070831		Piston housing	1
21.	Y10306801	*	O-ring 1.78 x 17.17	1
23.	Y10321300	*	O-ring 3 x 6 mm	1
24.	Y60005231		Hex check valve	1
25.	Y60005351		S.S. spring	1
27.	Y21021351		Orifice, 2.1mm	1
28.	Y21026131		Injector body, Bsp3/8MM, brass	1
29.	Y60093131		Seat holder L=30mm	1
31.	Y60078335		Manifold 1/2	1
32.	Y14410100		Washer 1/2 Bsp rubber + steel	2
33.	Y21017184		Injector cap. plastic	1
34.	Y21015531		Adjustable hose barb	1
35.	Y10304301		O-ring 1.78 x 4.48 viton	1
36.	Y21015851		Spring, sst	1
37.	Y21017331		Fitting Bsp 1/4	1
38.	Y10304900		O-ring 1.78 x 5.28 viton	1
39.	Y14742001		7/32" ball, sst	1
40.	Y21016051		Spring, conical, sst	1



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GENERAL PUMP *A member of the Interpump Group*

Pressure Trapping Unloader w/Adjustable Injector

APPLICATION

This product is to be used with clean, fresh water. For different or corrosive liquids, contact GP Companies Inc. technical support department. With not-clean liquids, appropriate filtration should be installed.

Select the valve based on the nominal operating rating: system rated pressure, max flow and max temperature.

Under no circumstances should the pressure of the system exceed the **maximum** rated pressure of any component.

When installed on hot water cleaners, this valve is to be installed before the boiler.

INSTALLATION

On a system that produces hot water, consider installing safety devices which limit the accidental increase of the fluid temperature.

Always install a safety valve to protect the operator and system.

Choose a correct nozzle size, able to discharge regularly, on bypass, at least 5% of the total flow of the system, in order to achieve a constant pressure, and avoid troublesome pressure spikes.

When the nozzle wears, the pressure drops. After installing a new nozzle, re-adjust the system to the original pressure setting.

PROBLEMS & SOLUTIONS

PROBLEMS	PROBABLE CAUSES	SOLUTIONS
Unloader cycles	Damaged check valve o-ring Fitting leaking Restricted bypass	Replace Check and repair Clean or adapt
Unloader does not come up to pressure	Unloader not properly sized Piston o-ring worn out Foreign materials among seat and shutter Nozzle worn out	Select a new unloader Replace Clean the seat Replace
Pressure spikes	Spring totally compressed. Excessive flow in bypass. There is not a min. 5% of total flow in bypass.	Loosen unloader adjustment Change unloader Change size of nozzle Adjust unloader and/or replace nozzle
Unloader does not bypass at low pressure	Check valve jammed Check valve o-ring worn out Foreign materials on check valve	Clean or replace Replace Clean

DIMENSIONAL DRAWING

