YVB75KDMN21

Pressure Trapping Unloader w/Adjustable Injector

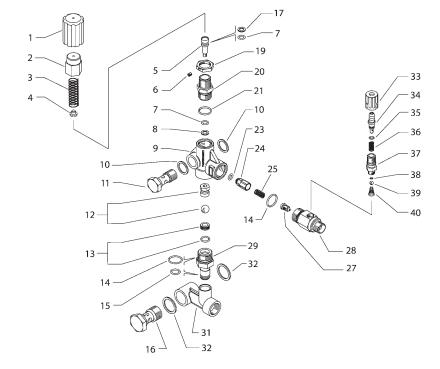


SPECIFICATIONS					
Part Number		YVB75KDMN21			
Operating Pre	essure	3200 PSI			
Maximum Pre	ssure	3650 PSI			
Maximum Flo	W	8.0 GPM			
Maximum Ten	nperature	195°F			
Port Size:	Inlet Discharge	1/2" BSPP-F 3/8" BSPP-M			
Banjo Size:	Inlet Discharge	1/2" BSPP-M 3/8" BSPP-M			
Dimensions		3.8" x 1.8" x 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
	Y60025920		Seat assy	1
	Y10307002		O-ring 1.78 x 18.77 mm	2
15.	Y10310996		O-ring 2.4 x 10.3 viton	1
	Y60100831		Hollow screw 1/2 Bsp	1
	Y10402300	*	Backup ring 11 x 64 mm	1
	Y60101831		Lock nut M18x1	1
	Y60070831		Piston housing	1
	Y10306801	*	O-ring 1.78 x 17.17	1
	Y10321300	*	O-ring 3 x 6 mm	1
	Y60005231		Hex check valve	1
	Y60005351		S.S. spring	1
	Y21021351		Orifice, 2.1mm	1
	Y21026131		Injector body, Bsp3/8MM, brass	1
	Y60093131		Seat holder L=30mm	1
	Y60078335		Manifold 1/2	1
	Y14410100		Washer 1/2 Bsp rubber + steel	2
	Y21017184		Injector cap. plastic	1
	Y21015531		Adjustable hose barb	1
	Y10304301		O-ring 1.78 x 4.48 viton	1
	Y21015851		Spring, sst	1
	Y21017331		Fitting Bsp 1/4	1
	Y10304900		O-ring 1.78 x 5.28 viton	1
	Y14742001		7/32" ball, sst	1
40.	Y21016051		Spring, conical, sst	_1_





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APPLICATION **E**

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.

GENERAL PUMP

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	. Check and repair
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	. Replace . Clean the seat
Pressure spikes	Spring totally compressed. Excessive flow in bypass. There is not a min. 5% of total flow in bypass.	. Change unloader . Change size of nozzle
Unloader does not bypass at low pressure	Check valve jammed	. Replace

DIMENSIONAL DRAWING

