

**GENERAL PUMP** *A member of the Interpump Group*

# YVB75KDMN21

## Pressure Trapping Unloader w/Fixed Injector



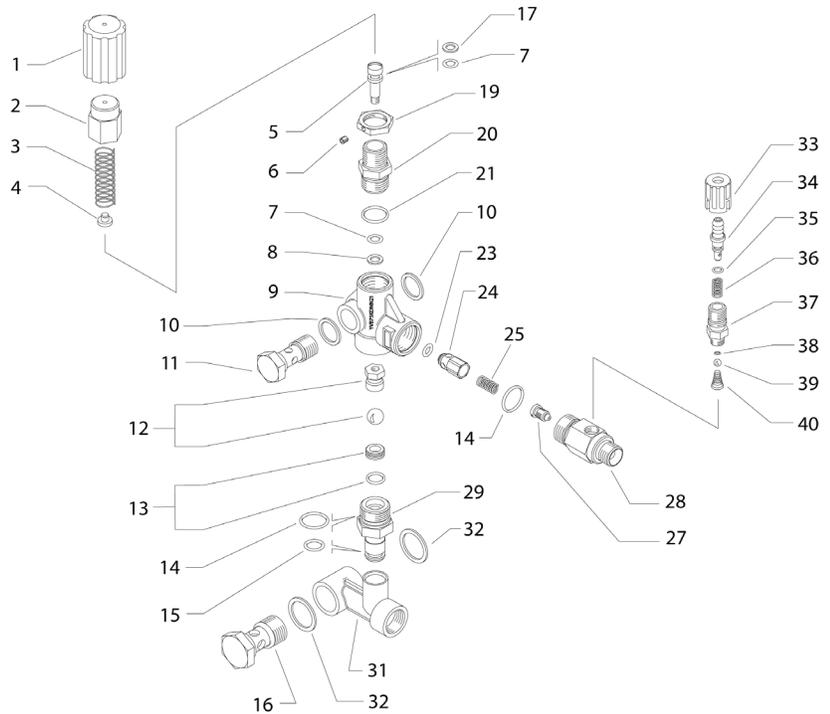
*General Pump recommends using a safety relief device in conjunction with this unloader valve when installed on a positive displacement pump. General Pump is not liable and assumes no responsibility when used in a customer's high pressure system.*

### SPECIFICATIONS

<b>Part Number</b>	<b>YVB75KDMN21</b>	
Operating Pressure	3,200 PSI	
Max Pressure	3,650 PSI	
Max Flow	8.0 GPM	
Max Temperature	195° F	
Port Size	Inlet	1/2" BSPP-F
	Outlet	3/8" BSPP-M
Banjo Size	Inlet	1/2" BSPP-F
	Outlet	1/4" BSPP-M
Dimensions	3.8" x 1.8" x 5.7"	
Weight	1.89 lbs.	
Material	Brass, Stainless Steel, Plastic, Buna-N	

### DIMENSIONS

No.	Part No.	Descriptions	Qty.
1	Y60031584	Plastice Knob	1
2	Y60030431	Brass Cap	1
3	Y60031361	White Spring	1
4	Y60031061	Spring Seat, Zinc Plated	1
5	Y60070451	Piston, SS	1
6	Y16210000	Grub Screw, M4x4	1
7*	Y10402400	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	Shutter, M6, SS	1
13*	Y60025920	Seat, Assy	1
14*	Y10307002	O-ring, 1.78 x 18.77 mm	2
15	Y10310996	O-ring, 2.40 x 10.30, Viton	1
16	Y60100831	Hollow Screw, 1/2 BSP	1
17	Y10402300	Backup Ring, 11 x 64 mm	1
19	Y60101831	Lock Nut, M18 x 1	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	Spring, SS	1
27	Y21021351	Orifice, 2.1 mm	1
28	Y21026131	Injector Body, BSP 3/8 mm, Brass	1
29	Y60093131	Seat Holder, L=30	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	Y103004900	O-ring, 1.78 x 5.28, Viton	1
39	Y14742001	Ball, 7/32" SST	1
40	Y21016051	Spring, Conical, SST	1
*	Y60071924	Repair Kit (valve only)	

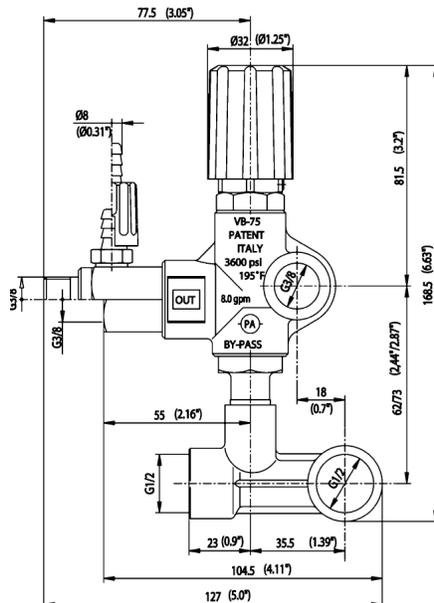


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Ref 300355 Rev. B  
02-19



### DIMENSIONS



### INSTRUCTIONS

#### SELECTION

This product is to be used with clean water which can contain the addition of normal detergents. For use involving different or corrosive liquids, contact the General Pump Customer Service Department. Appropriate filtration should be installed when using water that may contain any sort of debris. Choose the valve appropriate for the system rated pressure, maximum flow rate and maximum temperature. In any case, the pressure of the machine should not exceed the permissible pressure rate imprinted on the valve.

#### INSTALLATION

On a system that produces hot water, this accessory must be fitted upstream of the heat generator. On a system that generates hot water, it is advisable to fit in accessories that limit the accidental increase of fluid temperature.

#### ALWAYS INSTALL A SAFETY VALVE

It is recommended to use a nozzle with a size that, at gun opened, allows to discharge from the valve bypass at least 5% of the flow supplied by the pump in order to obtain a constant pressure value, and an easy adjustment and to avoid troublesome pressure spikes at gun closure.

If the nozzle wears out, the working pressure decreases. To reset the pressure back to work level, it is necessary to replace the worn nozzle. When a new nozzle is fitted, re-setting of the system to its original working pressure is necessary.

### TROUBLESHOOTING

PROBLEMS	PROBABLE CAUSES	SOLUTIONS
Frequent Unloader Cycles	Damaged check valve o-ring Leaking connections Restricted bypass	Replace Check and renew Clean or adapt
Unloader does not come up to pressure	Unloader not properly sized Piston O-rings worn out Debris between seat and shutter Worn nozzle	Change spring or type of valve Replace Clean the seat Replace
Excessive pressure spikes	There is not a minimum of 5% flow in bypass Excessive flow in bypass Spring totally compressed	Reset Change type of valve or adjust passages Loosen knob and change nozzle
Unloader does not bypass at low pressure	Jammed check valve Check valve O-ring worn Debris in check valve	Clean or replace Replace Clean