

FEATURES

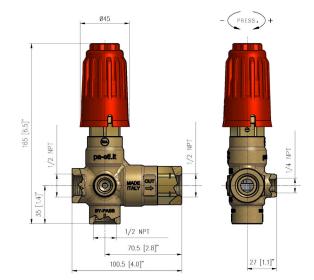
- Suitable for use with multiple guns at the same time
- Dynamic seals made up of O-rings and teflon runner
- Optimized internal passages that guarantee reduced pressure
- No risk of fittings being ejected in case of overpressure because o-rings are positioned upstream to the threads
- 1/4" NPT fitting for pressure gauge

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.

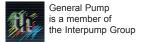
SPECIFICATIONS

Part Number				
Maximum Temperature		195° F ¹		
Max. Volume	÷	21.0 GPM		
Rated Pressure		5,100 PSI		
Minimum Adjustable Pressure		400 PSI		
Maximum Discharge Pressure		5,650 PSI		
Pressure Drop to Reset Bypass32		32% 2		
Port Sizes:	Inlet	1/2" NPT-F		
	Outlet	1/2" NPT-F		
	Bypass	1/2" NPT-F		
Overall Dimensions 6.5" x 4.0" x 1.77		6.5" x 4.0" x 1.77"		
Weight		2.5 lbs.		
Materials				

DIMENSIONS



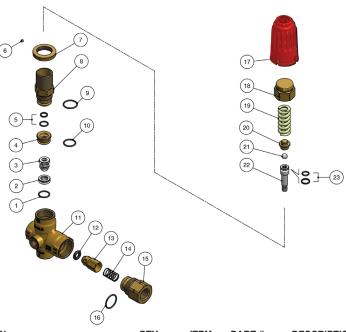








PARTS LIST



ITEM	PART#	DESCRIPTION	QTY
1*	Y10306601	O-ring, 1.78x15.6	1
2*	Y60180951	Seat, 11.6x19x6, SST	1
3*	Y60180851	Shutter Pin, M8, SST	1
_ 4	Y60181031	Spacer Ring, 10.3x23.4x12.5, Brass	1
5*	Y60097924	Stem Seal, 10x14.9	1
6	Y16210000	Set Screw, M4x4	1
7	Y60172831	Ring Nut, M27x1, Brass	1
8	Y60180531	Piston Holder, Brass	1
9*	Y10307201	O-ring, 1.78x20.35	1
10*	Y10306801	O-ring, 1.78x17.17	1
11	Y60185135	Brass Body, 1/2" NPT	1
12*	Y10329200	O-ring, 4x8	1

ITEM	PART#	DESCRIPTION	QTY
13	Y60048899	Shutter Pin, Brass + O-ring 4x8	1
14	Y60048951	Spring, 0.8x13.3x27, SST	1
15	Y60185231	Shutter Coupling, 1/2 F, NPT, Brass	1
16*	Y10307260	O-ring, 1.78x21.95	1
17	Y60172984	Valve Regulating Knob, Red	1
18	Y60172731	Valve Regulating Insert, Brass	1
19	Y60181261	Spring, 4.5x15.8x47	1
20	Y60181331	Spring Rest Pin, Brass	11
21	Y14744310	Ball, 11/32", SST	1
22	Y60180651	Piston, M8, SST	1
23*	Y60097824	Piston Seal, 9X14X2.2 + O-ring	1
*	VKITA021B	Panair Kit	

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.





INSTRUCTIONS (cont.)

DISCHARGE SYSTEM AND WATER ADDUCTION

We recommend to fit the valve with the bypass discharge returned to a tank. It is advisable that the tank be fitted with baffles to reduce eventual turbulence and air bubbles generated by the emission of the bypass flow which could be harmful for the pump. With elevated flow or near to the maximum flow of the valve, the installation with a recirculation of bypass direct to the pump could cause potential pressure spikes harmful to the pump.

PRESSURE ADJUSTMENT/CALIBRATION

The desired working pressure must be adjusted with the system running and the gun opened. Adjust the pressure by screwing or unscrewing the adjustment screw/knob. The operation is easier if the correct nozzle has been chosen (see paragraph "installation"). When screwing the screw/knob a consequent pressure increase must be matched. If, before reaching the desired pressure, there is no pressure increase when screwing the screw/knob, do not force but check the correct ration nozzle/flow rate - pressure and, if necessary, fit a nozzle with a smaller size.

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 ar adjust passages Loosen knob and change nozzle

MAINTENANCE

Maintenance must be carried out by Qualified Technicians.

STANDARD: Every 400 working hours (10,000 cycles), check and lubricate the seals with water resistant grease.

SPECIAL: Every 800 working hours (20,000 cycles), check the wear of the seals and internal parts and, if necessary, replace with original General Pump parts taking care during installation and to lubricate with water resistant grease.

The manufacturer is not responsible for damage as a result of incorrect fitting and maintenance.

