GENERAL PUMP A member of the Interpump Group



FEATURES

- Sturdy brass and steel construction •
- Multiple connections for easy installation
- Powerful spring action provides reliable • pressure adjustment
- Hexagonal shaped check valve avoids jamming •
- Knob is fitted with a locknut for minimum and maximum pressure regulation

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.

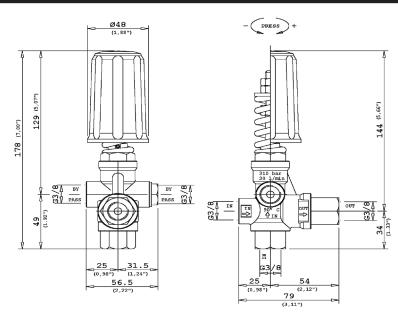
SPECIFICATIONS

| Part Number | PULSAR3KHP |
|-------------------------|---------------------------------|
| Max. Volume | 7.8 GPM ¹ |
| Max. Discharge Pressure | |
| Max Temperature | 194 ⁰ F ² |
| Port Sizes: Inlet | |
| Outlet | |
| Bypass | |
| Overall Dimensions | 7.0" x 3.2" x 2.3" |
| Weight | 1.6 lbs. |
| Materials | Brass, Stainless Steel, Buna-N |

Maximum flow rate: 4.0 GPM if fed through the lower connection.
This unloader has been designed to operate at a continuous water temperature of 86°F. It can be operated for short periods at a maximum temperature of 194°F.

DIMENSIONS

IRAPPED PRESSURE









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. The supply of the lower connection is possible with reduced flow rate (see point 1).

INSTALLATION

This unloader, on a system that produces hot water must be fitted in **front of the heat generator**. This unloader is meant to be incorporated on a finished machine. On a system that generates hot water, anticipate the fitting of accessories that limit the accidental increase of fluid temperature.

Always install a safety valve that protects the pressurized inlet channel.

Choose the correct nozzle size that is 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.

OPERATIONS

The valve regulates the maximum pressure of the system through a piston, which acts on a ball correctly positioned, that closes the bypass opening. A check valve cuts out the delivery section, the pressure of which controls the drive of the piston. Each setting operation should be made when the system is operational and the nozzle open.

ATTENTION: The nuts (item 22 - 2 pieces) must never be removed. Removal will compromise a mechanical safety feature that limits the maximum pressure, thus could result in serious damage to people and equipment.

MAINTENANCE

Maintenance should be carried out by specialized technicians.

Standard: every 400 working hours (10,000 cycles), control and lubricate the seals with water resistant grease.

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

ATTENTION: reassemble the valve in the correct sequence paying special attention to the nuts (item 22) by fastening them with a drop of strong glue.

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

TROUBLESHOOTING

| PROBLEMS | PROBABLE CAUSES | SOLUTIONS |
|---------------------------------------|--|---|
| Frequenyt unloader cycles | Damaged check valve o-ring Leaking connections Restricted bypass | Replace Check and replace Clean or adapt |
| Unloader does not come up to pressure | Unloader not properly sized Debris lodged in unloader Unloader piston o-ring worn Worn nozzle | Change spring or type of valve Clean unloader Replace 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 won't go into bypass | Discharge check valve jammed Worn discharge check valve o-ring Debris in unloader valve | Clean or replace Replace Clean unloader |

PARTS LIST

1

2*

3

4'

5'

6

7

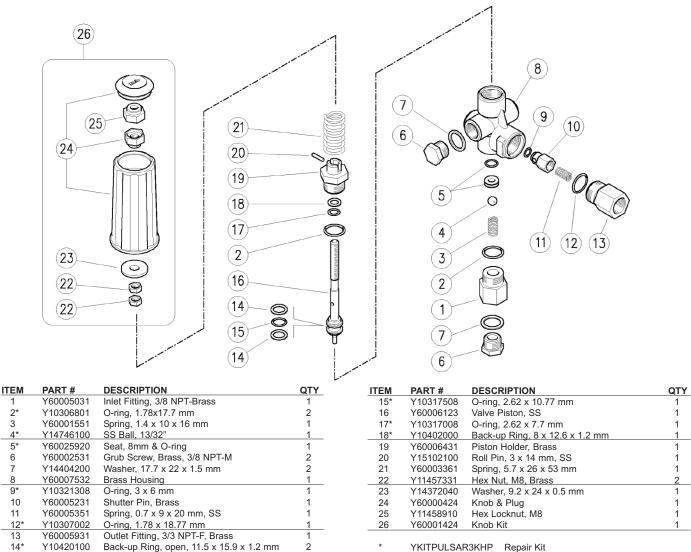
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YKITPULSAR3KHP Repair Kit

