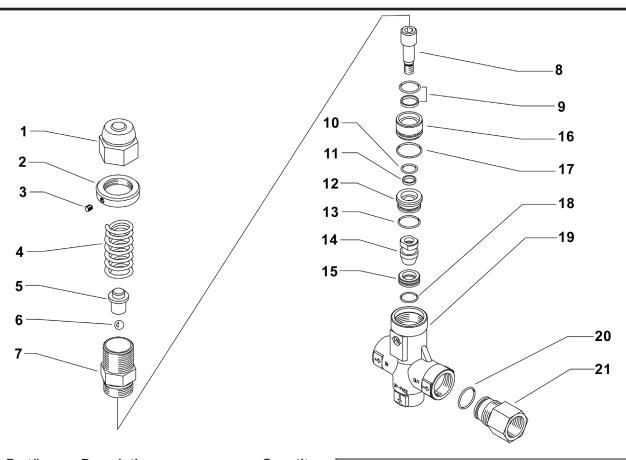
Model 22106-51

Pressure Actuated Unloader 316 S.S.



| ltem | Part# | Description | Quantity |
|------|-------|----------------------|----------|
| _1 | 05469 | Nut | 1 |
| 2 | 05464 | Spacer | 1 |
| 3 | 08557 | Grub Screw | 1 |
| 4 | 04478 | Spring | 1 |
| 5 | 04222 | Spring Holder | 1 |
| 6 | 08624 | Ball | 1 |
| 7 | 04298 | Piston Holder | 1 |
| 8 | 04479 | Piston | 1 |
| 9 | 04208 | Stem Seal and O-Ring | 1 |
| 10 | 04217 | O-Ring | 1 |
| 11 | 04216 | Back-Up Ring | 1 |
| 12 | 04481 | Spacer Ring | 1 |
| 13 | 04482 | O-Ring | 1 |
| 14 | 04483 | Piston | 1 |
| 15 | 04485 | Seat | 1 |
| 16 | 04480 | Spacer Ring | 1 |
| 17 | 08831 | O-Ring, Viton | 1 |
| 18 | 04484 | O-Ring | 1 |
| 19 | 04486 | Housing | 1 |
| 20 | 04482 | O-Ring | 1 |
| 21 | 04488 | Discharge Fitting | 1 |

Repair Kit# Includes Item Numbers: 9, 10, 11, 13, 14, 15, 17, 18 & 20

Operating Conditions

Max. Flow: 21.1 (80 L/min)

Pressure Range: 406-4060 PSI (28-280 Bar)

Permissible Pressure: 4500 PSI (310 Bar)
Max. Temperature: 194 °F (90 °C)*
Inlet Port: 1/2" BSP

1/2" BSP

By-Pass: 1/2" BSP **Weight:** 1.9 lbs. (840 g) *Continuous duty Temp. = 158 °F (60 °C)



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INSTRUCTIONS

This product is to be utilized with clean fresh water, even slightly additivated with normal detergents. For use involving different or corrosive liquids, contact Giant. Appropriate filtration should be installed when using unclean liquids. Choose the valve in line with the data of nominal running (system rated pressure, maximum flow and maximum temperature). In any case, the pressure of the machine should not exceed the permissible pressure rate imprimed on the valve.

INSTALLATION

This accessory, on a system that produces hot water, must be fitted in **front of the heat source**. The valve keeps system pressure steady when flow rate varies. **Always install a safety valve that protects the pressurized inlet plumbing.** In case of direct discharge into a tank, avoid anything that might interfere with the flow or make it uneven. Choose a correct nozzle size, which allows a regular discharge on bypass, at least 5% of the total flow of the system in order to achieve a constant pressure value and avoid troublesome pressure spikes at closure. If the nozzle wears out, the pressure drops. On installation of a new nozzle, re-adjust the system to the original pressure setting.

OPERATION

The valve regulates system pressure through a piston acting on a cone. When the cone is in its normal position, it partially obstructs the bypass port.

DISCHARGE SYSTEM AND WATER SUPPLY

The bypass line should be returned into a tank with baffles. If the pump is fed directly from the water main, it is advisable to install a pressure reducing valve before the pump, in order to avoid dangerous pressure spikes which could badly damage manifolds and suction valves.

PRESSURE ADJUSTMENT/SETTING

Adjustments must be carried out when the system is in pressure and the gun is operating. This operation will be easier to perform if the right nozzle was selected. Pressure is increased by rotating the adjustment knob. In case pressure does not increase despite turning of the knob, **do not force**, but check the nozzle flow rate/pressure ratio is correct. When reaching the desired pressure level, tighten the nut (pos 1) with the gub screw (pos 3) and secure it with a paint drop, in order to display any possible loosening or tampering.

MAINTENANCE

Maintenance has to be carried out by qualified technicians.

STANDARD: every 400 working hours (about 10,000 cycles), check and lubricate the seals with water resistant grease. SPECIAL: every 800 working hours (about 20,000 cycles), control the wear of the seals and internal parts and, if necessary, replace with new parts taking care during installation and to lubricate with water resistant grease.

ATTENTION: assemble the valve correctly, resetting all conditions to starting levels and carefully repeat all operations described above. The manufacturer is not to be considered responsible for damage as a result from incorrect fitting and maintenance.

