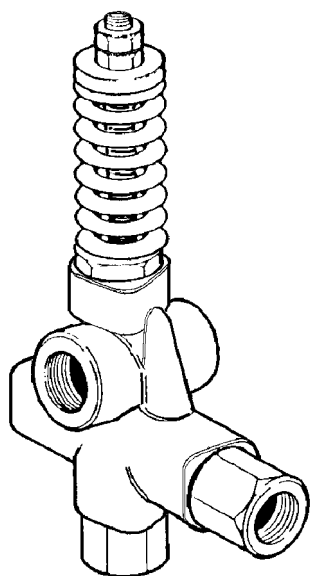


## Stainless Steel Trapped Pressure Unloader Valve



### SPECIFICATIONS

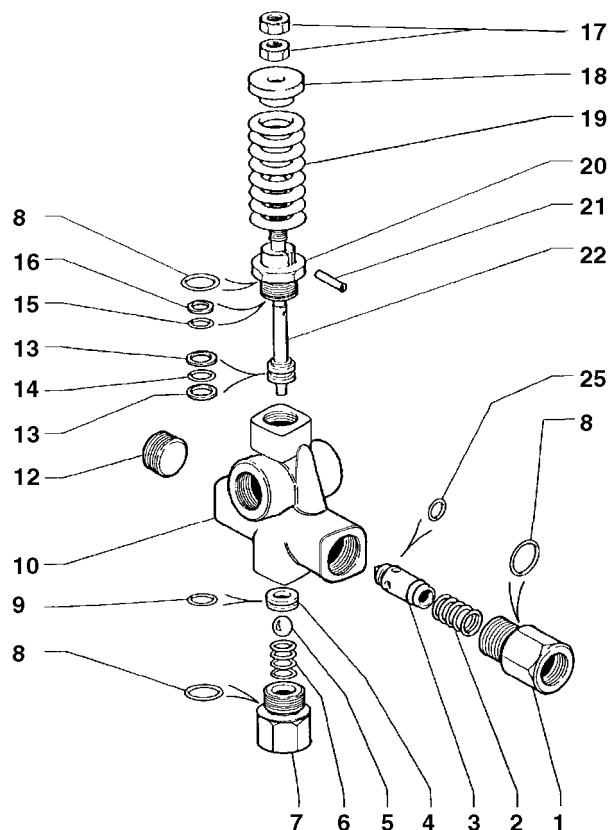
|                            |                                |
|----------------------------|--------------------------------|
| Part Number                | YU2158                         |
| Maximum Volume             | 21 GPM                         |
| Maximum Discharge Pressure | 5800 PSI                       |
| Maximum Temperature        | 200°F                          |
| Port Sizes: Inlet          | 1/2" NPT-F                     |
| Dimensions                 | 8.3" x 3.8" x 1.5"             |
| Weight                     | 4.2 lbs.                       |
| Material                   | Stainless Steel, Brass, 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 is not liable and assumes no responsibility for this valve when used in a customer's high pressure system.**

### PARTS LIST

#### YU2158 - Y60.0430.50 UNLOADER VALVE

| No. | Part No.    | Description    | Kit | Qty. |
|-----|-------------|----------------|-----|------|
| *   | YKITU2158   | Repair Kit     |     | 1    |
| 1.  | Y60.0437.51 | Outlet Fitting |     | 1    |
| 2.  | Y60.0409.51 | SS Spring      |     | 1    |
| 3.  | Y60.0403.51 | SS Check Valve |     | 1    |
| 4.  | Y60.0408.51 | Seat           | *   | 1    |
| 5.  | Y14.7461.00 | SS Ball        | *   | 1    |
| 6.  | Y60.0410.51 | SS Spring      |     | 1    |
| 7.  | Y60.0438.51 | Inlet Fitting  |     | 1    |
| 8.  | Y10.3072.01 | O-Ring         | *   | 3    |
| 9.  | Y10.3060.01 | O-Ring         | *   | 1    |
| 10. | Y60.0436.51 | Valve Housing  |     | 1    |
| 12. | Y60.0444.51 | Plug           |     | 1    |
| 13. | Y10.4014.00 | Back-up Ring   | *   | 2    |
| 14. | Y10.3178.01 | O-Ring         | *   | 1    |
| 15. | Y10.3174.01 | O-Ring         | *   | 1    |
| 16. | Y10.4015.00 | Back-up Ring   | *   | 1    |
| 17. | Y11.4629.00 | Nut            |     | 2    |
| 18. | Y60.0406.31 | Spring Guide   |     | 1    |
| 19. | Y60.0434.61 | Spring, Black  |     | 1    |
| 20. | Y60.0433.51 | Piston Housing |     | 1    |
| 21. | Y15.1032.00 | Pin            |     | 1    |
| 22. | Y60.0432.51 | Piston         |     | 1    |
| 25. | Y10.3292.00 | O-Ring         | *   | 1    |



## Stainless Steel Trapped Pressure Unloader Valve

### APPLICATION

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.

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<br>Fitting leaking<br>Restricted bypass                                                    | Replace<br>Check and renew<br>Clean or adapt                                      |
| Unloader does not come up to pressure    | Unloader not properly sized<br>Foreign material between seat and shutter<br>Piston o-ring worn out<br>Nozzle worn out | Select a proper spring or a new unloader<br>Clean the seat<br>Replace<br>Replace  |
| Pressure spikes                          | Spring totally compressed<br>Excessive flow in bypass<br>There is not a min. 5% of total flow in bypass               | Loosen and change nozzle size<br>Select another unloader<br>Adjust size of piping |
| Unloader does not bypass at low pressure | Check valve jammed<br>Check valve o-ring worn out<br>Foreign materials on check valve                                 | Clean or replace<br>Replace<br>Clean                                              |

### DIMENSIONAL DRAWING

