FLOW SENSITIVE

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GENERAL PUMP *A member of the Interpump Group*

YU2158

Stainless Steel Trapped Pressure Unloader Valve

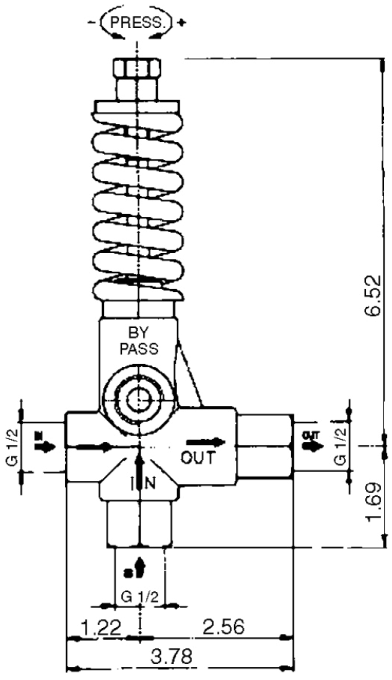
SPECIFICATIONS

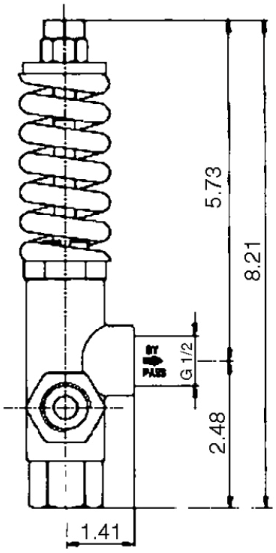
Part Number	**YU2158**
Max Volume*	21 GPM
Max Discharge Pressure	5800 PSI
Max Temp	200º F
Inlet Port Sizes	1/2” NPT-F
Dimensions	8.3” x 3.8” x 1.5”
Weight	4.2 lbs
Materials	Stainless Steel, Brass, Buna-N

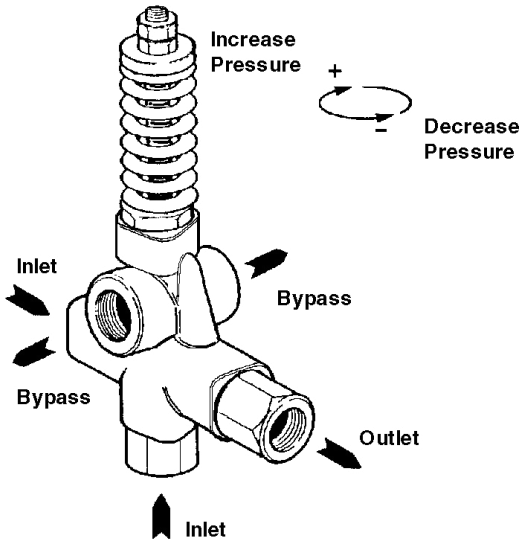
*NOTE: If unloader is fed through the lower connection
max flow rate: 10.5 GPM / 40 l/min

General Pump recommends using a pressure reducing 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.

DIMENSIONS







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QUALITY SYSTEM CERTIFICATION DNV·GL ISO 9001

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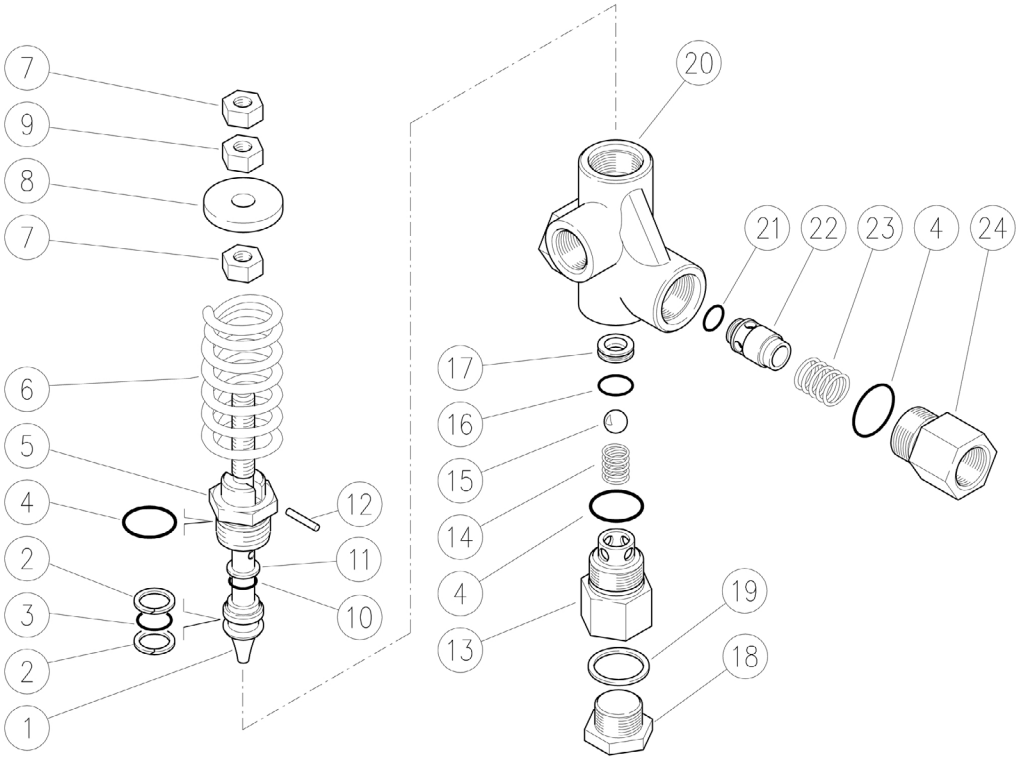
PARTS LIST



No.	Part No.	Description	Qty.
1	Y60043251	Piston	1
2*	Y10401400	Back-up Ring, 18x135.x1.2 mm	2
3*	Y10317801	O-ring 2.62x13.1 mm	1
4	Y10307201	O-ring 1.78x20.35	3
5	Y60043351	Piston Housing, SS	1
6	Y60043461	Spring, 8.5x38x80 mm, (Black)	1
7	Y11462900	Hex Nut, M10	2
8	Y60040631	Spring Guide, Brass	1
9	Y11463000	Hex Nut, M10	1
10*	Y10317401	O-ring, 2.62x9.93 mm	1
11*	Y10401500	Back-up Ring, 10x14.5x1.2 mm	1
12	Y15103200	Pin, 3x18, SS	1

No.	Part No.	Description	Qty.
13	Y60043851	Inlet Fitting, 1/2” NPT SS	1
14	Y60041051	Spring, 1.6x44.5x20 mm, SS	1
15*	Y14746100	Ball, 13/32”, SS	1
16*	Y10306001	O-ring, 1.78x14.42 mm	1
17*	Y60040851	Seat, 8.5x15.9x4.5 mm, SS	1
18	Y60044451	Plug, 1/2” NPT, SS	1
19	Y14410100	Sealing Washer	1
20	Y60043655	Valve Housing,1/2F NPT, SS	1
21*	Y10329200	O-ring, 4x8 mm	1
22	Y60940395	Check Valve, 4x8 mm SS	1
23	Y60040951	Spring, 0.8x15.4x13 mm, SS	1
24	Y60043751	Outlet Fitting, 1/4” NPT, SS	1
*	YKITU2158	Repair Kit	

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.

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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.

MAINTENANCE

STANDARD: every 400 working hours, check and lubricate the seals with water resistant grease.

SPECIAL: every 800 working hours, check the wear of the seals and internal parts and, if necessary, replace with original GP parts taking care, during installation, to lubricate with water resistant grease.

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

TROUBLESHOOTING

PROBLEMS	PROBABLE CAUSES	SOLUTIONS
Frequent valve recycles	Damaged check valve O-ring Leaking connections Restricted bypass or too small diameter of the bypass hose	Replace Check or renew Clean or adapt passage diameter
Valve does not reach pressure	Piston O-rings worn out Debris between seat and shutter Seat worn out Nozzle worn out Incorrect choice of nozzle	Replace Clean the seat Replace Replace Fit with smaller nozzle
High pressure peaks at gun closure	There is not a minimum of 5% of total flow discharged in bypass Excessive flow in bypass Adjustment with spring totally compressed	Reset Correctly Change type of valve or adjust passages Loosen adjustment screw and eventually fit with smaller nozzle
Valve does not discharge at low pressure at gun closure	Jammed check valve Debris on check valve	Clean or replace Clean

WARNING: High Pressure Systems require a primary pressure regulating device (i.e. regulator, unloader) and a secondary pressure relief device (i.e. pop-off valve, relief valve). Failure to install such relief devices properly could result in personal injury or damage to pump or property. GP does not assume any liability or responsibility for the operation of the user's high pressure system.

WARNING: This product can expose you to chemicals including lead, which is know to the state of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov

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