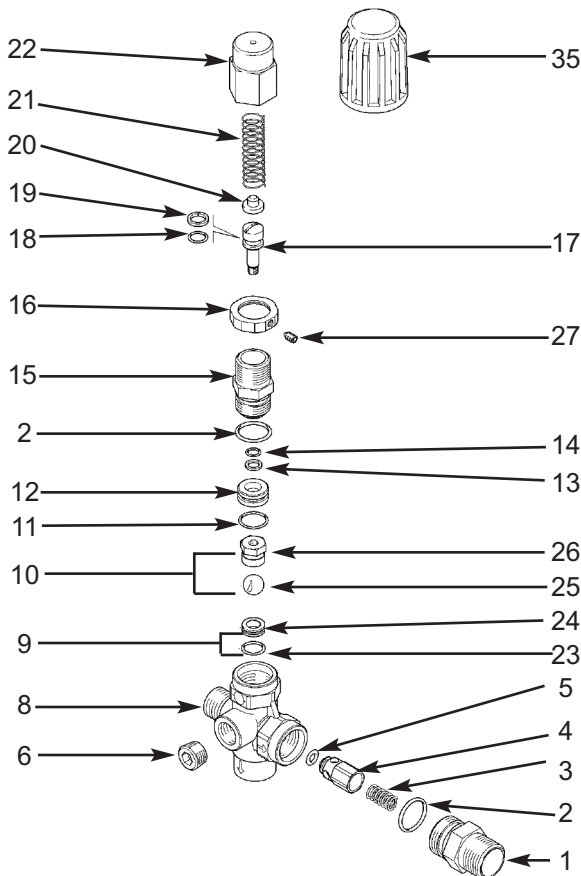




FEATURES

- Sturdy steel and brass construction
- Adjustable locknut to control max pressure
- Easy maintenance
- Hexagonal discharge check valve to prevent jamming

PARTS LIST



Item	Part Number	Description	Kit	Qty
1	Y60190431	Shutter Couple., 3/8 NPT		1
2	Y10306600	O-ring, 1.78x15.6mm	*	2
3	Y60086751	Spring, 0.5x6.5x22mm, SS		1
4	Y60085931	Shutter Pin, Brass		1
5	Y10312500	O-ring, 2.5x4mm	*	1
6	Y60002631	Grub Screw, Brass, NPT		1
8	Y60190335	Valve Housing, 3/8 NPT, Brass		1
9	Y60087220	Seat, 7.5mm + O-ring	*	1
10	Y60087121	Rest, M5, Brass + Ball	*	1
11	Y10306000	O-ring, 1.78x12.42mm	*	1
12	Y60086331	Spacer Ring, 6.2x16x6, Brass		1
13	Y10400600	Back-up Ring, 8.6x6x1.2mm	*	1
14	Y10305101	O-ring, 1.78x6.07mm	*	1
15	Y60030331	Piston Holder, Brass		1
16	Y60031931	Locknut, M18x1, Brass		1
17	Y60033151	Piston, M5, SS		1
18	Y10305500	O-ring, 1.78x7.66mm	*	1
19	Y10400800	Back-up Ring, opn, 8x11x1.2	*	1
20	Y60031061	Spring Guide		1
21	Y60086261	Spring, 3.3x12.6x41mm		1
22	Y60030431	Valve Regulating Knob, Brass		1
23	Y10300500	O-ring		1
24	Y60086451	Seat		1
25	Y14744310	Ball, 11/32", SST		1
26	Y60085731	Rest, M5, Brass		1
27	Y16210000	Set Screw		1
35	Y60031584	Knob		1

* YKITVB3KTT 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. Appropriate filtration should be installed when used with liquids containing any solids. Select the proper unloader 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.**

INSTALLATION

When installed on hot water cleaners, this valve is to be installed **before** the boiler. Installing safety devices which limit the accidental increase of the fluid temperature is required.

Always install a safety valve (pop-off) to protect the operator and system.

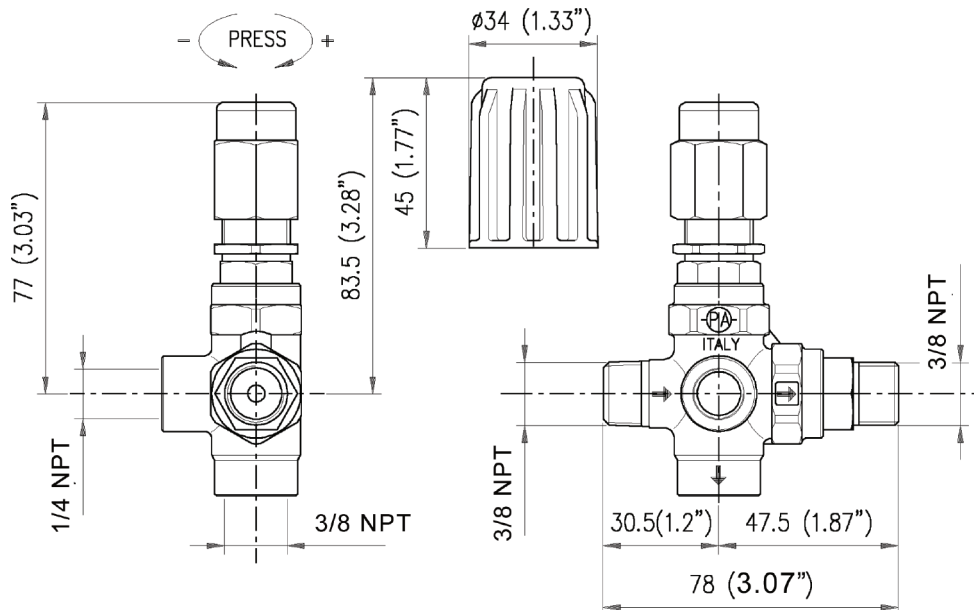
Choose the correct nozzle size, able to discharge regularly, on bypass, at least 5% of the total flow of the system in order to achieve a constant pressure, and avoid troublesome pressure spikes.

When the nozzle wears, the pressure drops. After installing a new nozzle, re-adjust the system to the original pressure setting.

TROUBLESHOOTING

PROBLEMS	PROBABLE CAUSES	SOLUTIONS
Unloader cycles	<ul style="list-style-type: none"> Damaged seat or cone Fitting leaking Restricted bypass 	<ul style="list-style-type: none"> Replace Check and renew Clean or adapt
Unloader does not come up to pressure	<ul style="list-style-type: none"> Unloader not properly sized Foreign materials between seat and shutter Piston o-ring worn out Nozzle worn out 	<ul style="list-style-type: none"> Select a proper spring or a new unloader Clean the seat Replace Replace
Pressure spikes	<ul style="list-style-type: none"> Spring totally compressed Excessive flow in bypass There is not a min. 5% of total flow in bypass 	<ul style="list-style-type: none"> Loosen and change nozzle size Select another unloader Adjust size of piping Adjust
Unloader does not bypass at low pressure	<ul style="list-style-type: none"> Check valve jammed Check valve o-ring worn out Foreign materials on check valve 	<ul style="list-style-type: none"> Clean or replace Replace Clean

DIMENSIONAL DRAWING



Ref 300788 Rev. A
10-10