

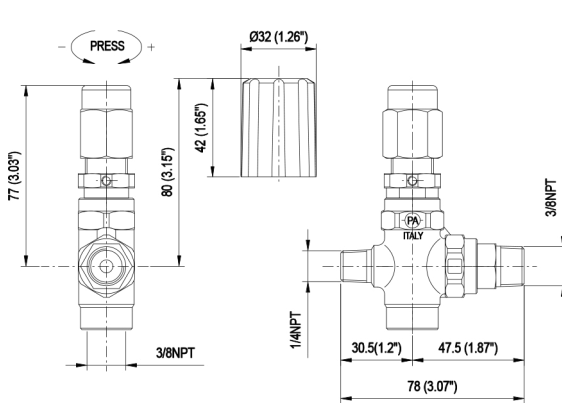
FEATURES

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

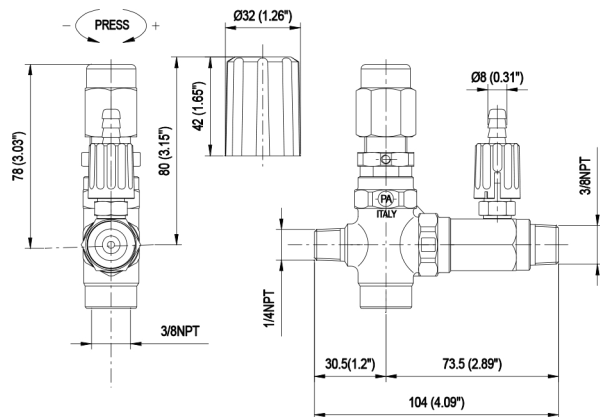
SPECIFICATIONS

Part Number	YVB3KTT	YVB3KTTI18	YVB3KTTI21	YVB3KTTI23
Max Volume	6.5 GPM			
Max Discharge Pressure	3600 PSI			
Max Fluid Temp	195° F			
Inlet Port	1/4" BSP-M			
Discharge Port	3/8" BSP-M			
Bypass Port	3/8" BSP-F			
Weight	1.6 lbs	1.8 lbs		
Dimensions	3.07"x1.26"x4.5"		4.09"x1.26"x4.5"	
Materials	Stainless Steel, Brass, Buna-N, Plastic			

DIMENSIONAL DRAWING



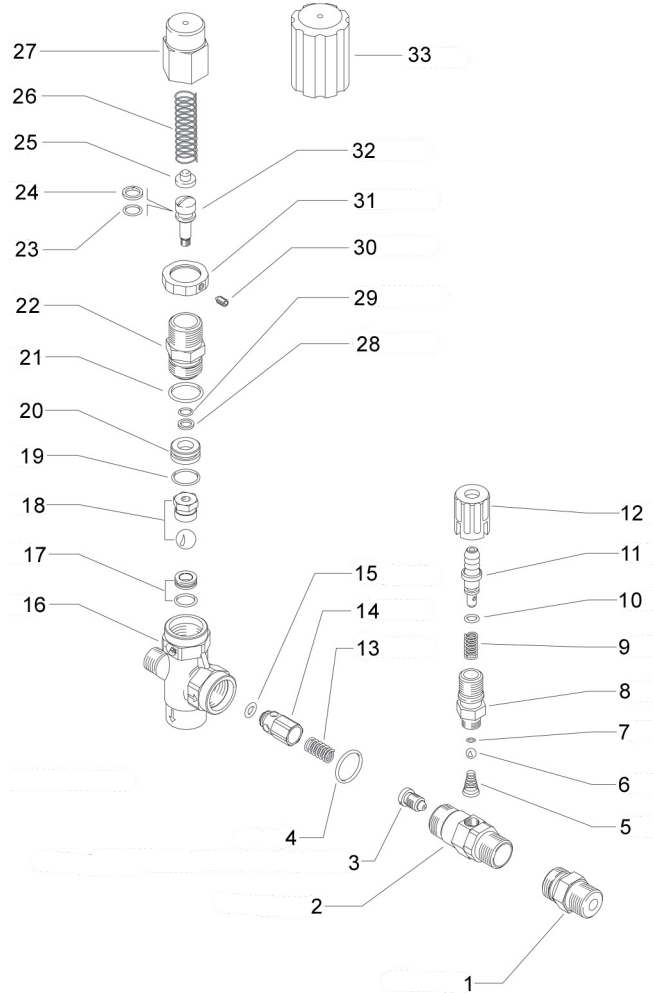
(YVB3KTT)



(YVB3KTTI18, YVB3KTTI21, YVB3KTTI23)

PARTS LIST

No.	Part No.	Description	Qty.
1	Y60190431	Fitting, 3/8" NPT	1
2	Y21005331	Injector Housing	1
3	Y21005451	Nozzle, 2.1 mm M6x1	1
4	701016	O-Ring, .614 ID x .070 CS	1
5	Y21016051	Spring, SS	1
6	Y14742001	Ball, 7/32", SS	1
7	701501	O-Ring, .208 ID x .070 CS	1
8	Y21017331	Nipple, M12 x M14	1
9	Y21015851	Spring, SS	1
10	701008V	O-Ring, .176 ID x .070 CS	1
11	Y21015599	Hose Barb, 8 mm	1
12	Y21017184	Knob	1
13	Y60086751	Spring, .5 x 6 mm, SS	1
14	Y60085931	Check Valve	1
15	Y10312500	O-Ring, .157 ID x .098 CS	1
16	Y60191135	Body	1
17	Y60087220	Seat, 7.5 mm, O-Ring	1
18	Y60087121	Rest, M5 Brass, Ball, 11/32" SS	1
19	701014	O-Ring, .614 ID x .070 CS	1
20	Y60086331	Spacer, 2 x 16 x 6 mm	1
21	701016	O-Ring, .614 x .070	1
22	Y60030331	Piston Housing	1
23	701011	O-Ring, .301 ID x .070 CS	1
24	Y10400800	Back-up Ring 11 mm x 8 mm	1
25	Y60031061	Spring Seat	1
26	Y60086261	Pressure Spring	1
27	Y60030431	Cap	1
28	Y10400600	Back-up Ring 8.6 mm x 6 mm	1
29	Y10305101	O-Ring, .239 ID x .070 CS	1
30	Y16210000	Set Srew, M4 x 4	1
31	Y60031931	Lock Nut, M18 x1	1
32	Y60033151	Piston, M5	1
33	660008	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