



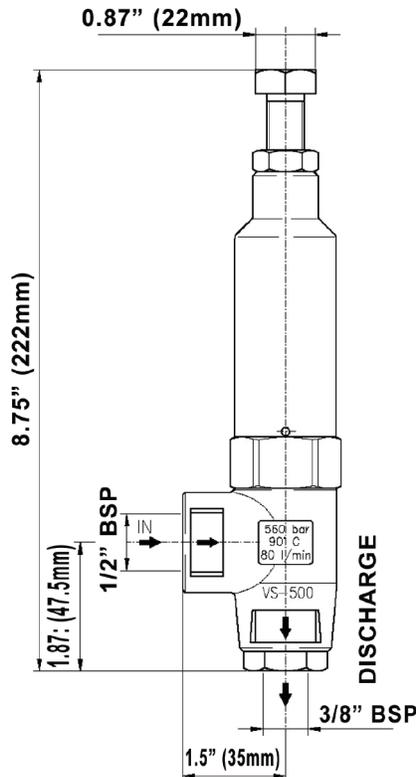
FEATURES

- Feature new, lighter design and hot water capability
- Regulates the operating pressure of the system by releasing excess volume through the by-pass
- Protects the system from over pressurization

SPECIFICATIONS

Part Number	YVS7250	
Maximum Pressure	7250 PSI	
Maximum Flow	21.0 GPM	
Maximum Temperature	185°F	
Port Sizes:	Inlet	1/2" BSP-F
	Bypass	3/8" BSP-F
Weight	3.2 lbs.	

DIMENSIONS



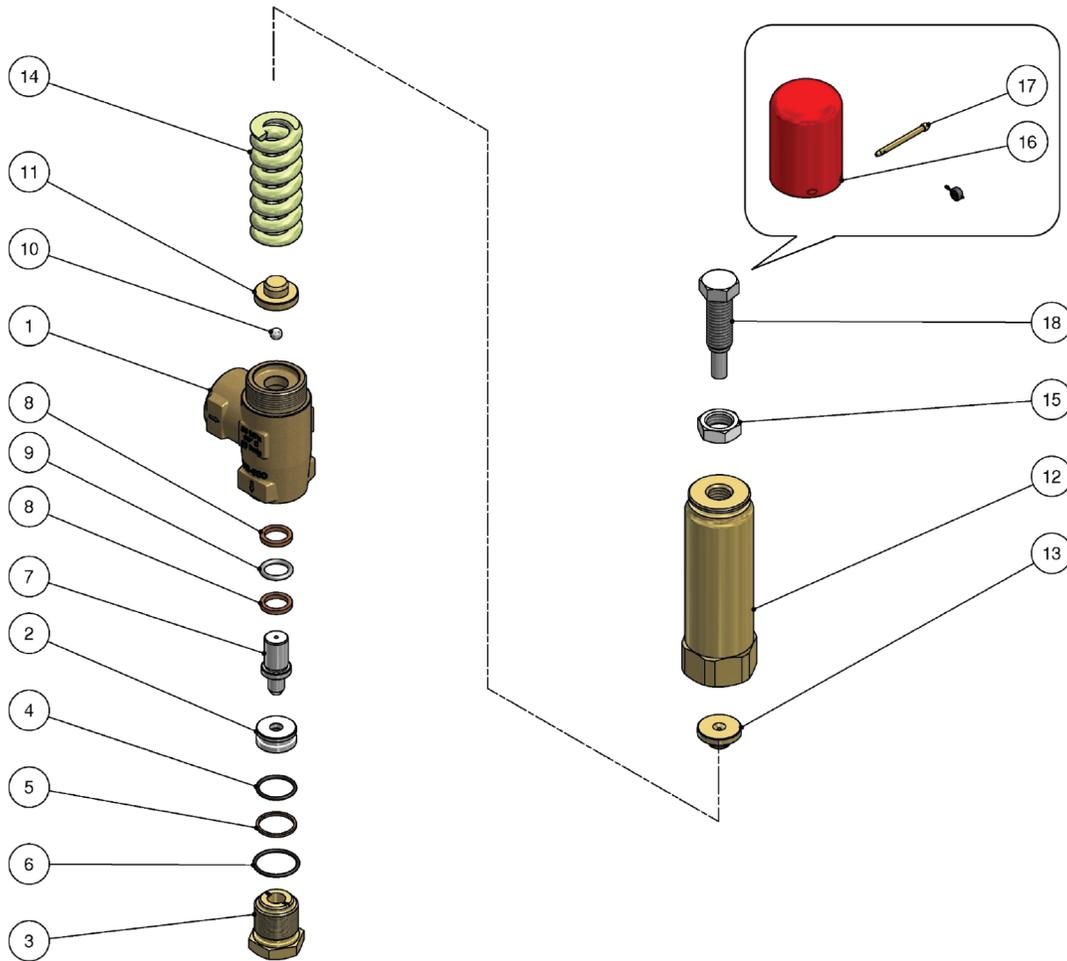
Ref 300910 Rev. A
10-12

YVS7250

Safety and Pressure Regulating Valve

GENERAL PUMP *A member of the Interpump Group*

PARTS LIST



Item	Part Number	Description	Qty
1	Y60520135	Housing, Brass	1
2*	Y60520351	Seat, 7x22x10mm, SS	1
3	Y60520431	Coupling, M24x1M-3/8F, Brass	1
4*	Y10307002	O-ring, 1.78x18.77mm	1
5*	Y10403000	Back-up Ring, 19.2x22x1.5mm	1
6*	Y10307260	O-ring, 1.78x21.95mm	1
7*	Y60520251	Piston, 16.5x37mm, SS	1
8*	Y10403100	Back-up Ring, 13x17.5x2.5mm	2
9*	Y10317801	O-ring, 2.62x13.1 mm	1

Item	Part Number	Description	Qty
10	Y14742150	Ball, 1/4", SS	1
11	Y60520531	Spring, Rest Pin, Brass	1
12	Y60520831	Spring Holder, Brass	1
13	Y60520731	Spring Guide Spacer, Brass	1
14	Y60520661	Spring, 7x28.5x70mm	1
15	Y11476000	Hex Nut, M14	1
16	Y60059841	Knob + Block, Red	1
17	Y60059931	Pierced Pin, 4mm	1
18	Y60520951	Regulating Screw, M14x58, SS	1

REPAIR KIT

Item #s Included	# of Pieces	Kit #
2, 4, 5, 6, 7, 8, 9	1	Y60521024

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INSTALLATION AND INSTRUCTIONS FOR USE

SELECTION

This product is to be utilized with clean fresh water, even slightly mixed with normal detergents. For use involving different or corrosive liquids, contact the General Pump Customer Service Department. Choose the valve in line with the data of nominal running (system rated pressure, max flow and max temperature). In any case, the pressure of the machine should not exceed the permissible pressure rating imprinted on the valve. When in use as a pressure regulator, use a nozzle that allows a bypass of at least 5% of the total flow, bearing in mind that a worn nozzle causes pressure loss. The valve, assembled according to these instructions, avoids pressure spikes while the machine is in operation.

INSTALLATION

This accessory, on a system that produces hot water, must be fitted **upstream of the heat generator**. As a SAFETY VALVE: in the case when frequently combined with unloader valves and low pressure in the pump, it has to be fitted in the section that remains pressurized when the gun is shut off. As a PRESSURE REGULATOR: maintains the pressure in the system steady during flow changes. Always install in combination with a suitable Safety Valve. In case of discharge in the tank or directly into the pump, it is necessary to provide devices capable of preventing turbulence to the liquid flow.

OPERATION

The valve inlet is on the side, the discharge is opposite of the adjustment knob (position 16). The discharge should be returned to a baffled tank. If, on the contrary, the pump is fed directly from the water mains, it is advisable to install a pressure reducing valve, before the pump, to avoid dangerous pressure spikes which could badly damage manifolds and suction valves. In case of extended conditions of bypass directed to the suction side of the pump, it is recommended to install a thermal valve to avoid dangerous water temperature build-up.

PRESSURE ADJUSTMENT/SETTING

As a SAFETY VALVE: the adjustment has to be made in such a way that the pressure setting is not higher than the system working pressure and its accessories; this prevents the arising of numerous pressure increases in hot water systems and static pressure (gun shut off).

As a PRESSURE REGULATOR: adjust the valve when the system is pressurized and the gun open. The operation will be easy and smooth if the proper nozzle is chosen. When rotating the adjustment knob, it has to correspond to a consequent pressure increase; should the pressure stop increasing before reaching the desired value, **do not force**, but check the correct nozzle size in relation to flow and pressure. Upon reaching the desired pressure, tighten the nut (position 15) against the knob (position 12) touching them with a drop of paint in order to emphasize any tampering or slackness.

MAINTENANCE

In normal working conditions the safety valve should not open (no water discharge); if the valve is fitted on the pump head, it is in any case subjected to pressure cycles which have to be calculated for maintenance.

STANDARD: every 400 working hours (approximately 10000 working cycles of the system), check and lubricate the seals with water resistant grease.

SPECIAL: every 800 working hours (approximately 20000 working cycles of the system), control 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. Furthermore verify the absence of scale or dirt on the seat and shutter.

ATTENTION: reassemble the valve in the correct manner paying special attention how to set the valve as directed in the paragraph PRESSURE ADJUSTMENT/SETTING.

Maintenance has to be carried out by Specialized Technicians.

The manufacturer is not responsible for damage as a result of incorrect fitting and maintenance

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TROUBLESHOOTING

PROBLEMS	PROBABLE CAUSES	SOLUTIONS
Valve cycles	<ul style="list-style-type: none">- Air inside the system- Worn out seals- Clogged circuit	<ul style="list-style-type: none">- Flush out- Replace- Clean or widen passages
The valve does not reach pressure	<ul style="list-style-type: none">- Improper nozzle size- Seat/shutter/ball worn out- Damaged Nozzle- Impurities	<ul style="list-style-type: none">- Modify- Replace- Replace- Clean
Pressure drop	<ul style="list-style-type: none">- Worn out nozzle- Pump gaskets worn out- Valve seat worn out- Air inside the system	<ul style="list-style-type: none">- Replace- Replace- Replace- Flush out
Pressure spikes	<ul style="list-style-type: none">- There is not a minimum 5% of total flow in bypass- Clogged nozzles	<ul style="list-style-type: none">- Replace- Clean- Repeat adjustment and replace nozzle
Water leakage from bypass Valve pounding	<ul style="list-style-type: none">- O-ring seat damaged- Damaged seat- Impurities or worn out pump valves	<ul style="list-style-type: none">- Replace- Replace- Clean- Replace

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