



FEATURES

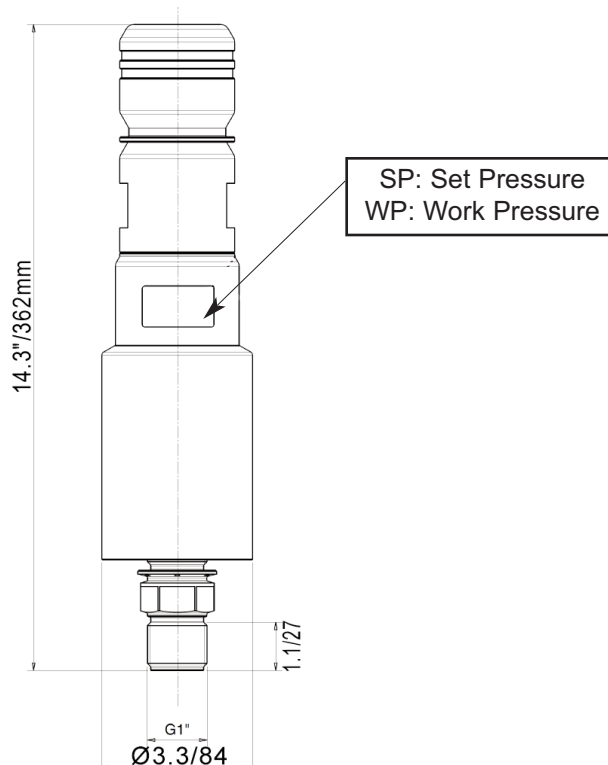
- Limits the pressure to the maximum working pressure of the system.
- When the max working pressure is exceeded it opens and discharges the total pump flow, eliminating the high pressure in the system.
- Pre-set and leaded according to the working pressure stamped on the valve body.

SPECIFICATIONS

Minimum Flow	10.6 GPM
Maximum Flow	63.7 GPM
Minimum Pressure	6,690 PSI
Maximum Pressure	21,750 PSI
Maximum Temperature	86°F
Inlet	1" BSP-M
Weight	17.7 lbs.

MODEL	PRESET WORKING PRESSURE
S1520/800	11,600 PSI
S1520/1000	14,500 PSI
S1520/1200	17,400 PSI
S1520/1500	21,750 PSI

DIMENSIONS

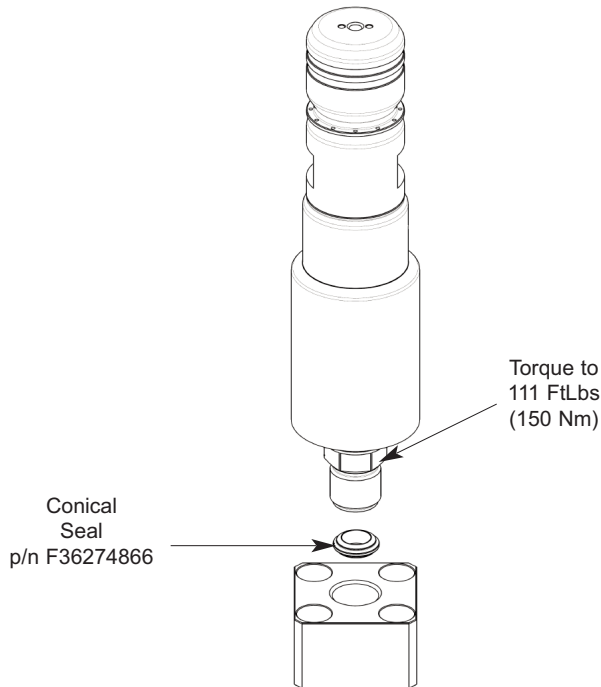


Ref 310035 Rev. A
07-16

S1520

Industrial Relief Valve

INSTALLATION AND INSTRUCTIONS FOR USE



1. GENERAL INFORMATION

1.1 The **S1520 safety valve** is a manually adjustable, pressure operated device, which, according to its setting, releases the excess of water when the pressure inside the pump/system exceeds the adjusted value, thus reducing the pressure. The normal working conditions can be restored by turning off and then restarting the system.

1.2 Since the S1520 valve is used in conjunction with a high pressure water pump/system, which shall be called hereafter only "system", installation and use must be suited to the type of system used and comply with the safety regulations in force in the country where the valve is used.

1.3 Before using the valve, make sure that the system the valve is used with is certified to comply with the relevant directives and/or regulations.

1.4 Before installing and using the valve for the first time, we suggest you check that it is undamaged and make sure that the rated features correspond to the required ones. If this is not the case, do not use the valve and contact the Customer Service Department.

2. INSTRUCTIONS FOR INSTALLATION

2.1 The **setting pressure (SP) is adjusted and fixed by the manufacturer and cannot be changed. The values of the setting pressure and suggested maximum working pressure (WP) are stated on the valve.**

2.2 The maximum flow rate depends on the setting pressure and ranges from 10.6 to 63 GPM (40 to 241 l/min). The exact value is stated on the valve.

2.3 The setting pressure (SP) is the pressure at which the valve opens, thus determining the maximum pressure value that the system cannot exceed.

2.4 The installation must be made by qualified and authorized staff only, who must have the required skills to handle high pressure systems and be informed of the operating and safety instructions contained in this document.

2.5 The fastening and sealing system of the S1520 valve is designed for General Pumps and/or products.

2.6 The seal of the 1" fitting is made using conical seal part number F36274855.

2.7 Before installing the valve, slightly lubricate the 1" thread with a grease specific for very high pressures (EP=extreme pressure) containing Graphite or Molybdenum, then tighten the fitting by means of a dynamometric wrench (111 ft. lbs./150 Nm).



IMPORTANT! During use, never exceed the maximum values of pressure, flow-rate and temperature as stated in this document and/or indicated on the valve.



IMPORTANT: For a correct use of the valve, it is necessary to install it in the area of the system reaching the higher pressure during use. Moreover, we suggest you install it by the component that you wish to protect most from pressure peaks.

3. WARNINGS

3.1 The installer must provide the ultimate consumer with the proper instructions for the correct use of the system the valve will be used in connection with.

3.2 The fittings used to connect the valve to the system must be suited to the valve performance features.

3.3 Use soft and filtered water only. In case of salt water and/or of water containing solid particles of a size exceeding 20 μm , the internal components of the valve will be subject to quick wear; furthermore, this might compromise the correct functioning of the valve. Addition agents can be used in the water, provided that they are delicate, biodegradable and always complying with the regulations in force in the country where the valve is used.

S1520

Industrial Relief Valve

GENERAL PUMP

A member of the Interpump Group

INSTRUCTIONS FOR USE (CONT.)



3.4 In the systems for hot water production, the temperature of the liquid that comes into contact with the valve must always be lower than the value stated in this instruction manual and indicated on the valve itself. **Avoid the formation of steam or overheated water.**

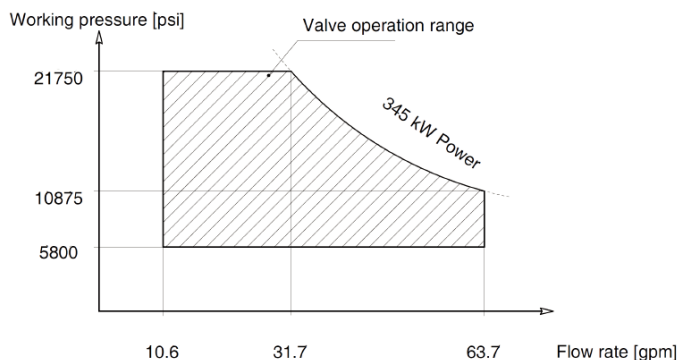
3.5 Before operating the system, it is advisable to start it for a preliminary test run in order to check that the system is properly installed.



3.6 IMPORTANT: Do not obstruct or cover the water discharge area of the valve in any way. Do not try and convey the discharged water; instead, always release into the atmosphere. Failure to comply with these simple instructions will result in a reduced safety of the system.

3.7 In order to optimize the pump-valve coupling, it is necessary to keep the valve operation range, as a function of the pump pressure and flow rate, within a maximum power of 462 HP (345 kW). As shown in the chart below, this means using pumps producing a flow rate of approximately 14 GPM (51.1 l/min) for maximum working pressures of 150 MPa (21750 PSI/1500 bar), and generating a pressure of approximately 40 MPa (5800 PSI/400 bar) for maximum flow rates of 63 GPM (241 l/min).

S1520



3.8 Should the relief valve open, turn off the system and find out what is the cause of the pressure increase.

4. MAINTENANCE

4.1 Maintenance and repair must be carried out by qualified and authorized staff only.



5.2 We suggest you check, at least every 2 years or after reaching 500 working hours of the system, that the valve opens correctly in order to verify the correspondence with the setting pressure.

5.3 The valve is entirely made of non-toxic and safe materials; however, in case of disposal, we suggest you do not dispose of in environment but take it to an authorized disposal center or contact the General Pump Service Department.



IMPORTANT: The valve shall not be tampered with for any reason and/or used for any purpose other than the use it has been designed for. In case of tampering, the manufacturer disclaims all

5. WARRANTY CONDITIONS

5.1 The period and conditions of warranty are specified in the purchase contract.

5.2 Warranty is voided in case the valve is used for improper purposes, used at higher performances than the rated ones, repaired with non-original spare parts or if it turns out to be damaged due to the non-compliance with the operating instructions or to unauthorized tampering.

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