



Water Solenoid Valves From Dairy Spares Ltd

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Water Solenoid Valves

SV32	Water Solenoid Valve Mk2	3/4" BSP
SV33	Water Solenoid Valve Mk2	1" BSP

The most common use for this solenoid valve is controlling the water supply to a plate heat exchanger in conjunction with the operation of the milk pump.

When the milk pump operates, a control signal is applied to the solenoid coil opening the valve and allowing the cold water to enter the plate heat exchanger to cool the milk.

Once the milk pump stops pumping the signal to the valve will be removed either instantly or shortly after, thus allowing for the momentum of the milk in the pipe which may still pass through the heat exchanger before the cooling water is stopped.

Both valves are normally closed and require a 230 Volt AC signal to operate. In the event of a power failure the valves will fail closed .

The valves require a minimum operating pressure of 0.3 bar, to close the valve with the assistance of a spring.

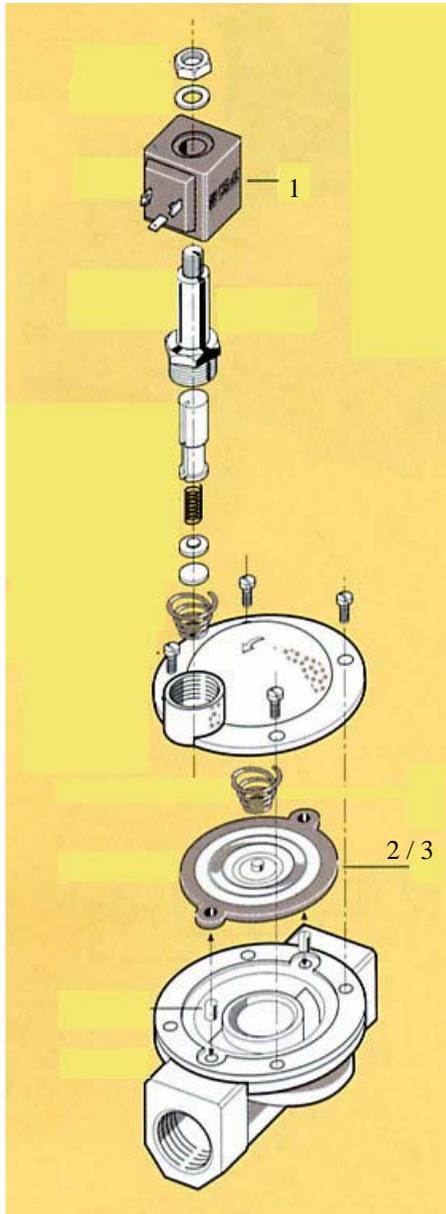
The valve can be installed in most positions with the exception of the coil being below horizontal.

For the valve to operate, it must be installed with the direction of flow from inlet to outlet as indicated by the arrow on top of the valve.



SV32

Water Solenoid Valve



Installation and operation notes.

Installation

1. Before installing the valve ensure all pipework is free of foreign matter.
2. Teflon tape is recommended for sealing the ports.
3. An arrow on the valve body gives flow direction.
4. It is preferable not to install the valve with the coil below horizontal.
5. A strainer upstream of the valve protects against the effects of foreign matter.
6. Do not lever the valve by the coil unit.
7. The pipework must be supported to prevent strain on the valve body.
8. Ensure pilot passages are not blocked by ends of pipe, sealing material, etc.
9. Ensure the coil supply voltage and frequency corresponds with that on the label.

Electrical

1. Before replacing a coil always check the voltage, frequency and code on the label.
2. It is essential to make the earth connection on the pin provided. Flat terminal = Earth
3. The coil may be rotated on its axis to achieve the desired position before retightening the nut.

Trouble-shooting

Check the port connections, operating pressure and supply voltage. Ensure the pilot passages are clear. If the armature does not lift, check the coil for short circuit, burnout or foreign matter impeding the armature movement. A jammed armature will cause the coil to overheat.

No:	DS Code	Description
1	SV34	Solenoid coil 230 V AC for SV32/33
2	SV35	Diaphragm for SV32 3/4" BSP Valve
3	SV36	Diaphragm for SV33 1" BSP Valve

Solenoid Valve Dimensions

Model	Port Size	Kv	A	B	C	D
SV32	3/4" BSP	95 l/min	87 mm	101 mm	69 mm	84 mm
SV33	1" BSP	173 l/min	100 mm	106 mm	80 mm	86 mm

