



*heating and plumbing products
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Motorised two and three port valves for solar thermal systems

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Description

The key point of difference in the design and manufacture of these motorised valves is that they are rated for use with solar heating systems, operating at a temperature of 120°C with short term peaks of up to 150°C. Specifically, the internal ball used for closing and diverting is made of a material more suited to cope with both the glycol fluids used in solar systems as well as the high temperatures experienced in normal operation.

The valves can be used in both heating and solar systems, and can be used to zone off additional storage tanks, for heat dumping circuits, and to control or divert in place of pumps. The 3 port valve diverter is also rated to 150°C, and performs the function of a diverter valve in both heating and solar circuits.

The valve, without electrical supply applied, allows flow from AB (the inlet middle port) to outlet port B. When the motor is energised, the valve then switches, diverting the flow to port A. In addition, a manual lever is built into the actuator to open the valve to all ports for maintenance, system filling or commissioning.

Technical data

Power supply:	1ph/230V AC/50hz
Absorbed power:	5-6W
Degree of protection:	IP20 IEC 529 European standards ref. CEI EN 60529
Auxiliary contact capacity:	3A, 230V AC
Max. differential pressure:	22mm & 28mm = 90.2kPa
Rated pressure:	PN10
Flow temp. limits:	+5° - 120°C (150°C for short durations)
Max. room temperature:	60°C
Nominal opening time:	10 secs
Nominal closing time:	4 secs
Std. cable length:	550mm



Two way solar motorised valve



Three way solar motorised valve

product description	product code
22mm 2 port solar zone valve (3 wire)	SMV2530
22mm 2 port solar zone valve (5 wire) with auxiliary switch	SMV2430
28mm 2 port solar zone valve (5 wire) without auxiliary switch	SMV2431
22mm 3 port solar zone valve (5 wire) with auxiliary switch	SMV3417
28mm 3 port solar zone valve (5 wire) with auxiliary switch	SMV3418

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