



*heating and plumbing products
that won't cost the earth*

Motorized 2-port and 3-port valves for solar thermal systems



2-port motorized solar zone valves

SF motorized 2-port zone valves with spring return.

The SF 2 port motorized zone valves are powered by an electric actuator and have two operating positions depending on whether the motor is activated (energized) or not. The valves can be supplied with one or two auxiliary switches on request. These are activated when the valve switches.

The valves are equipped with an external lever for manually positioning the shut-off ball in its central position.

Operation

Without electric power supply the valve is closed.

When it is energized, the actuator servomotor overcomes the spring force and opens the valve, this takes approximately 10 seconds. The valve is held in this position until the electric power supply is cut. When the electric power supply is cut, the spring returns the valve back to a closed position, this takes approximately 4 seconds.

Technical Data

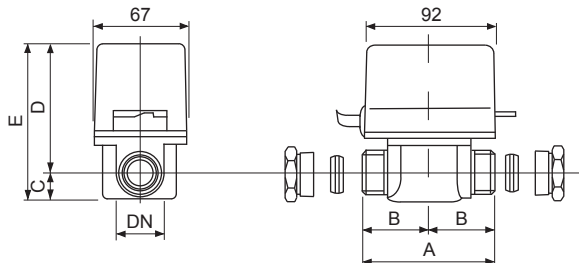
- Rated power supply 1ph / 230 V a.c. / 50 Hz
- Absorbed power: 5 ÷ 6 W
- Degree of protection IP20 IEC 529 European Standards Ref. CEI EN 60529
- Auxiliary contact capacity 3 A, 230 Vac
- Maximum differential pressure: 22mm, and 28mm = 90.2kPa
- Rated pressure PN10
- Flow temp. limits: +5 ÷ 160 °C
- Maximum room temperature: 60 °C
- Nominal opening time 10 sec.
- Nominal closing time 4 sec.
- Standard Cable Length 550 mm.

Pressure Drop

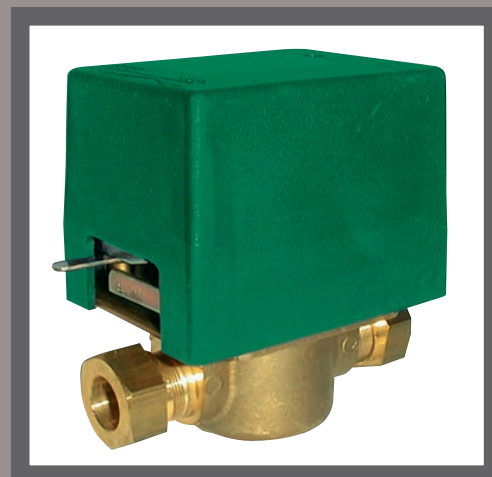
Valve Size	Kvs
22mm	7 m ³ /h
28mm	9 m ³ /h

* Note: To avoid water ingress, do not install the valve upside down, with the cover facing down to ensure water from either condensation or a leaking valve does not enter the actuator.

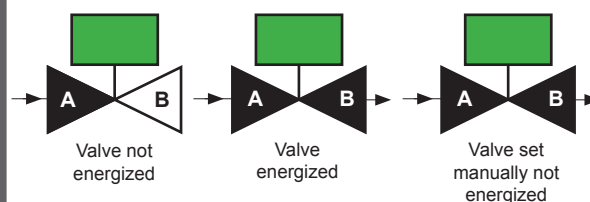
Dimensions



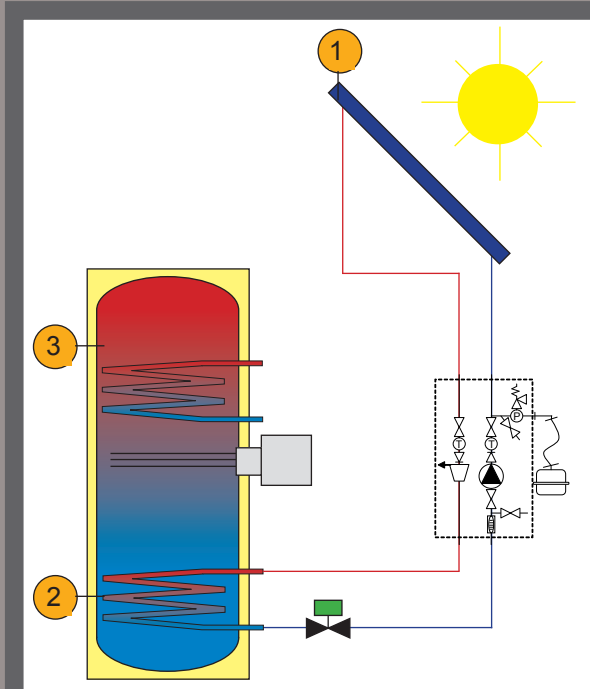
Valve	DN	A	B	C	D	E
SMV 2530 & SMV 2430	22mm	92	46	20	85	105
SMV 2431	28mm	92	46	20	85	105



2-port spring return motorized valve



2-port spring return motorized valve (3 positions)



Anti-gravity shut off using the SF 2-port valve

Cat No.	Description
SMV 2530	22mm 2-port solar zone valve (3 wire) without auxiliary switch
SMV 2430	22mm 2-port solar zone valve (5 wire) with auxiliary switch
SMV 2431	28mm 2-port solar zone valve (5 wire) without auxiliary switch



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3-port motorized solar diverter valves

SF motorized 3-port diverter valves with spring return.

The SF 3 port motorized diverter valves are powered by an electric actuator and have two operating positions depending on whether the motor is activated (energized) or not. The valves can be supplied with one or two auxiliary switches on request. These are activated when the valve switches.

The valves are equipped with an external lever for manually positioning the shut-off ball in its central position.

Operation

Without electric power supply the valve diverts from AB to port B and A is closed.

When it is energized, the actuator servomotor overcomes the spring force and diverts from AB to port A, this takes approximately 20 seconds, at this time port B is closed. The valve is held in this position until the electric power supply is cut. When the electric power supply is cut, the spring returns the valve back to a divert from AB to B port, this takes approximately 6 seconds.

Technical Data

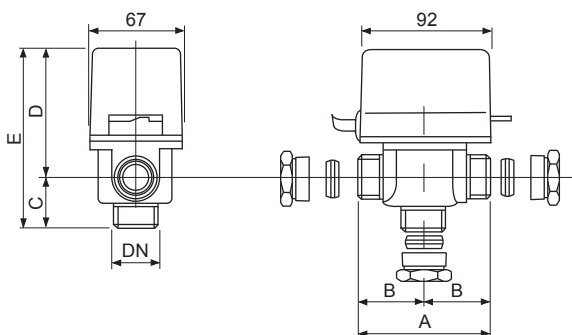
- Rated power supply 1ph / 230 V a.c. / 50 Hz
- Absorbed power: 5 ÷ 6 W
- Degree of protection IP20 IEC 529 European Standards Ref. CEI EN 60529
- Auxiliary contact capacity 3 A, 230 Vac
- Maximum differential pressure: 22mm, and 28mm = 90.2kPa
- Rated pressure PN10
- Flow temp. limits: +5 ÷ 160 °C
- Maximum room temperature: 60 °C
- Nominal opening time 20 sec.
- Nominal closing time 6 sec.
- Standard Cable Length 550 mm.

Pressure Drop

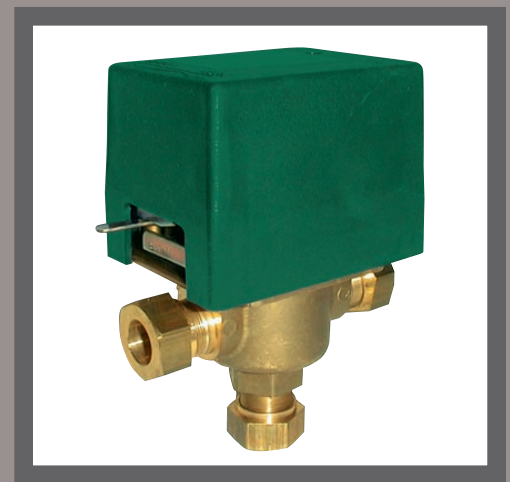
Valve Size	Kvs
15mm	6.6 m ³ /h
22mm	7.8 m ³ /h
28mm	12.6 m ³ /h

*** Note: To avoid water ingress, do not install the valve upside down, with the cover facing down to ensure water from either condensation or a leaking valve does not enter the actuator.**

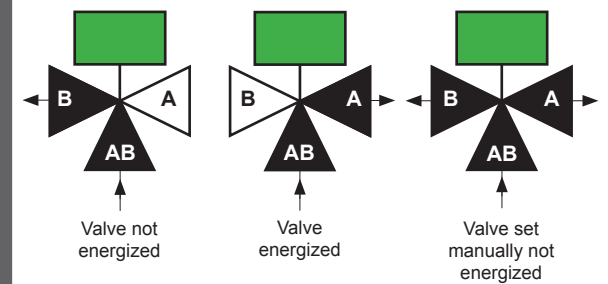
Dimensions



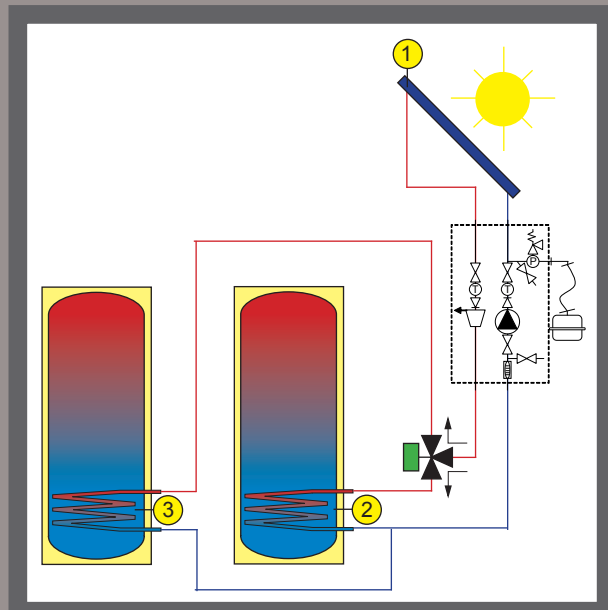
Valve	DN	A	B	C	D	E
SMV 3415	15mm	106	53	53	84	137
SMV 3417	22mm	106	53	53	84	139
SMV 3418	28mm	120	60	60	88	148



3-port spring return motorized valve



3-port spring return motorized valve (3 positions)



Priority loading through the SF 3-port valve

Cat No.	Description
SMV 3415	15mm 3-port solar diverter valve (5 wire) with auxiliary switch
SMV 3417	22mm 3-port solar diverter valve (5 wire) with auxiliary switch
SMV 3418	28mm 3-port solar diverter valve (5 wire) with auxiliary switch

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