SOL Series

Automatic air vents valves for solar energy systems

Technical Data Sheet





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Description

SOLARVENT valves **SOL Series** are automatic air vent valves for solar systems. Valves are inspectionable, by unscrewing the cap from the valve tank (body). The seal between cap and valve tank is guaranteed by the presence of an O-Ring, therefore it is possible to inspect and eventually clean the internal parts of the valve, in case of presence of foreign matters. Efficiency and functionality of the discharge mechanism during the time are guaranteed by the design characteristics of the valve. Sealing system is suitable to support vibration.



SOL

SOLARVENT.

Automatic air vent valve for solar energy systems with unscrewable cover for inspection. Body and cover of brass CW617N. High resistance polyethylene float. Seal between reservoir and cover with reinforced polyamide gasket. Connection DN 3/8". Stainless steel (AISI 304) vacuum breaker. Maximum operating pressure: 12 bar. Maximum operating temperature: 160°C

Туре		Part no.	Dn	Weight (g)	Pz Confezione
SOL	10	0248410	3/8"	191	1
SOL	I0-K10	0248410-K10	3/8"	2.000	10

SOL/R

SOLARVENT WITH RIA.

Airvent like SOL Series with automatic sealed shut-off valve.

Туре	Part no.	Dn	Weight (g)	Pz Confezione
SOL10.R10	0248510	3/8"	221	1
SOL10.R10-K10	0248510-K10	3/8"	2.300	10
SOL10.R15	0248511	1/2"	221	1
SOL10.R15-K10	0248511-K10	1/2"	2.300	10



RIA/MV-SOL

Automatic shut-off valve for automatic air vent valves SOL Series with device for quick and total drainage of water from the valve during the esecution. Body: brass CW617N. Gasket: viton. Plug: high resistance polymer. Spring: stainless steel. Connections MF 3/8" and 1/2" DIN-ISO 228/1.

Туре	Part no.	Dn	Weight (g)
RIA/MV-SOL	0259310	3/8" x 3/8"	30
RIA/MV-SOL	0259320WK	3/8" x 1/2"	30

Operation

Opening and closing of the valve is caused by the vertical movement (ascent and descent) of the float. • With the occurrence of air inside the valve, the level of the water falls down, the float weigh acts on the lever, pulling down

ever and shutter (which are connected). In this configuration the horifice is open, the air may vent outside the installation.During the filling with water of the plant, the air which is contained in the hydraulic circuit is pushed outside through the SOLARVENT valve. When all the air is discharged, the water that moves into the valve body pushes upward the float, as a

result the lever pushes upward the shutter which closes the horifice and ensures the hermetic seal of the valve. The automatic shut-off valve Ria allows to disassemble the automatic solar air vent without the need to drain the system.



Technical features SOL Series		
Maximum pressure	12 bar	
Maximum operating temperature	160°C	

Features	SOL	Series
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reatures SOL Series	
Body	Brass CW617N
Cover	Brass CW617N
Gasket	Viton
Сар	Brass CW617N
Lever	Reinforced Polyamide
Float	High resistance polyethylene
Seal	NBR70
Connections	G 3/8" DIN – ISO 228/1
Under cap	Reinforced Polyamide

Features RIA Series		
Body	Brass CW614N	
Plug	High resistance polymer	
Spring	Stainless steel	
Sealing	Elastomer high resistance	
Vacuum breaker	AISI304 stainless steel	

1. Body 2. Cover

3. Shutter 4. Spring

5. Cap

6. Lever

7. Float 8. Under cap 9. Vacuum breaker



Chart



Installation

In order to ensure the maximum venting efficiency, the SOLARVENT valve must be installed in the summit of the hydraulic circuit, in a place where the speed of the water is low.

After the installation, in order to maximise the venting capacity, unscrew the protection cap for at least two turns (with this configuration the venting characteristics are shown in the above diagram).

Maintenance

SOLARVENT air vent valve normally does not need maintenance. Anyhow, if the valve must be disassembled, the presence of the automatic shut-off valve RIA/MV-SOL Series allows the operation without emptying the hydraulic circuit.

Overall dimensions (mm)



Specification text

SOL Series

Automatic air vent valve for solar energy systems SOL Series WATTS brand with removable cover for inspection. Body and cover of brass CW617N. Polyethylene float. Seal between reservoir and cover with reinforced polyamide gasket. Connection DN 3/8". Stainless steel (AISI 304) vacuum breaker.

Maximum operating pressure: 12 bar. Maximum operating temperature: 160°C.

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