

## EcoFlow

### SEAL SUPPORT SYSTEMS



### ***BENEFITS***

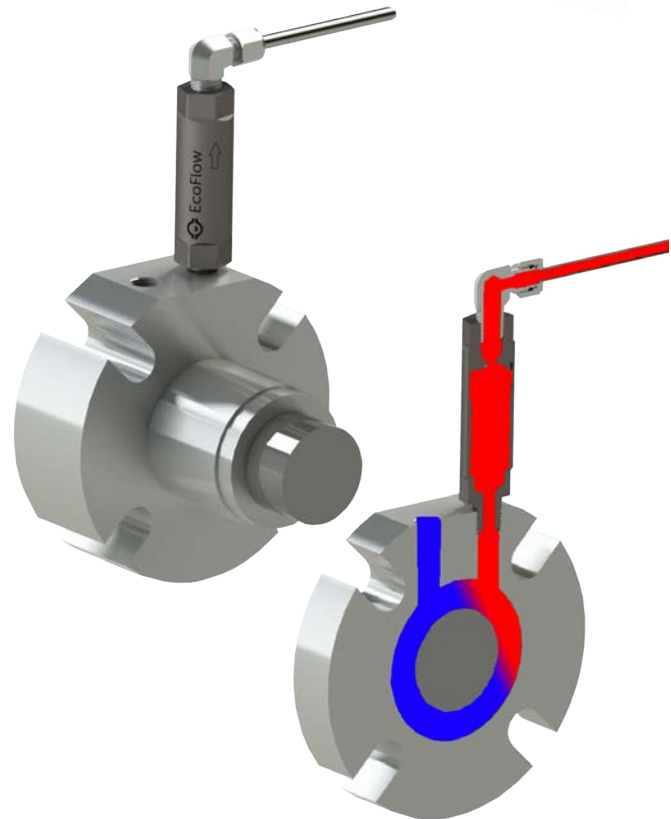
- Drastically decreases seal water consumption
- Increases water treatment efficiency
- Self-actuating valve only uses water when necessary
- Eliminates dry runs due to operator error
- Increases seal life by avoiding dry running the seals and ensuring an optimum seal environment
- Expands mechanical seal use to more applications
- Decreases operating cost
- Low Cost – rapid ROI
- Optional side port feature allows flushing debris from inside valve



### ***DESIGN FEATURES***

- Temperature response is unaffected by pressure variations
- 100% mechanical/self-operating, no outside power source of any kind
- Corrosion resistant - long service life
- Ram-type plug for tight, reliable shutoff
- Ease of installation
- Operates in narrow temperature band
- Fail safe design

### ***TYPICAL INSTALLATION***



### ***OPERATION***

By placing an EcoFlow on the seal water outlet of your mechanical seal it will continuously maintain a constant seal water outlet temperature. If the seal water should exceed your specified factory set point it will modulate open discharging the hot water, displacing it with cool water. This cooler water will cause the EcoFlow to modulate closed. This cycle will continue to occur as long as excessive heat is being transferred to the seal water causing the water temperature to exceed its factory set point.

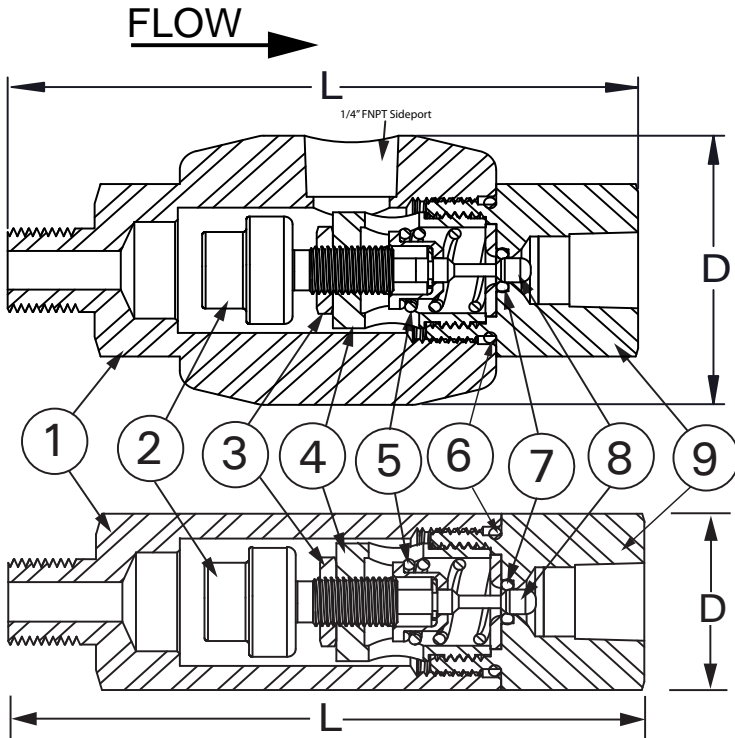
EcoFlow contains a highly reliable, repeatable phase change actuator which is temperature sensitive and will open and close the valve depending on the temperature it is sensing.

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### PARTS & MATERIALS



ITEM	DESCRIPTION	MATERIAL
1	VALVE BODY	300 Series SS
2	THERMAL ACTUATOR	300 Series SS
3	LOCKNUT	300 Series SS
4	RETAINER	300 Series SS
5	OPERATING SPRING	300 Series SS
6	SEALING O-RING	Buna-N
7	SEAT SEAL	Buna-N
8	RAM-TYPE PLUG	300 Series SS
9	SEAT HOUSING	300 Series SS

### DIMENSIONS & CAPACITIES

Type	SIZE (NPT)	D		L		Weight		C <sub>v</sub>	Maximum Operating Pressure	Maximum Temperature
		in	mm	in	mm	Lb	Kg			
EcoFlow	1/4"	1.1	28	3.6	91	0.4	0.2	0.5	400 PSIG (27.6 BAR)	250°F (121°C)
EcoFlow w/ side port		1.7	43							

### ORDERING

Part Number <sup>1</sup>	Description
241 - 100000 - XXX	1/4" EcoFlow SS
241 - 100100 - XXX	1/4" EcoFlow SS w/ side port

### NOTES

- Full open temperatures "XXX" available: 040°F, 045°F, 050°F, 060°F, 070°F, 075°F, 085°F, 095°F, 100°F, 105°F, 110°F, 115°F, 120°F, 125°F, 130°F, 140°F, 150°F, 160°F, 170°F, 175°F, 180°F, 190°F, 200°F and 210°F.  
 a. **Note: Closing temperature is typically 10°F below opening temperature.**
- Warranty information disclosed at [www.thermomegatech.com/terms-conditions/](http://www.thermomegatech.com/terms-conditions/)



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Because of continuous improvements, ThermOmegaTech, Inc. reserves the right to change the design and specifications without notice