

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 required
- Corrosion resistant - long service life
- Ram-type plug for tight, reliable shutoff
- Ease of installation
- Operates in narrow temperature band
- Fail safe design

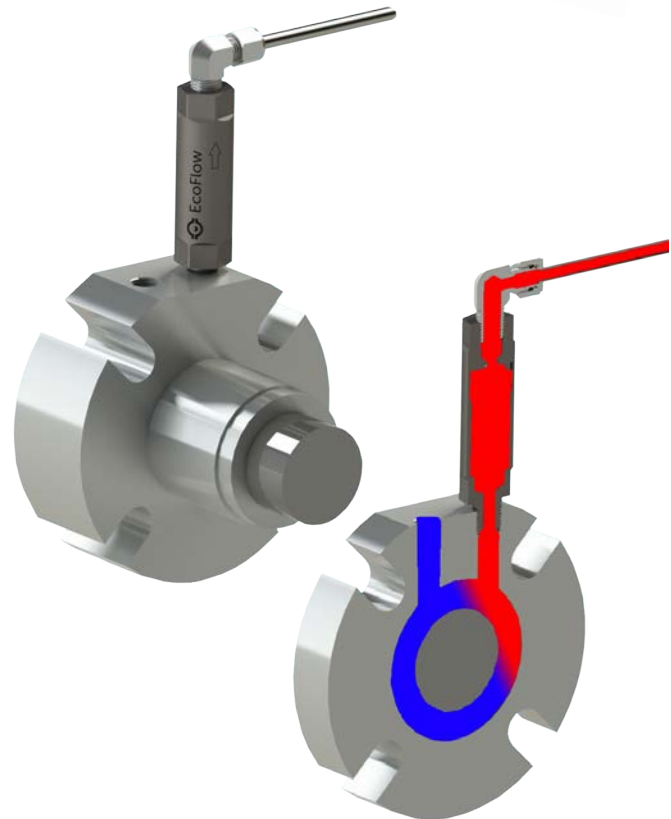
OPERATION

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.

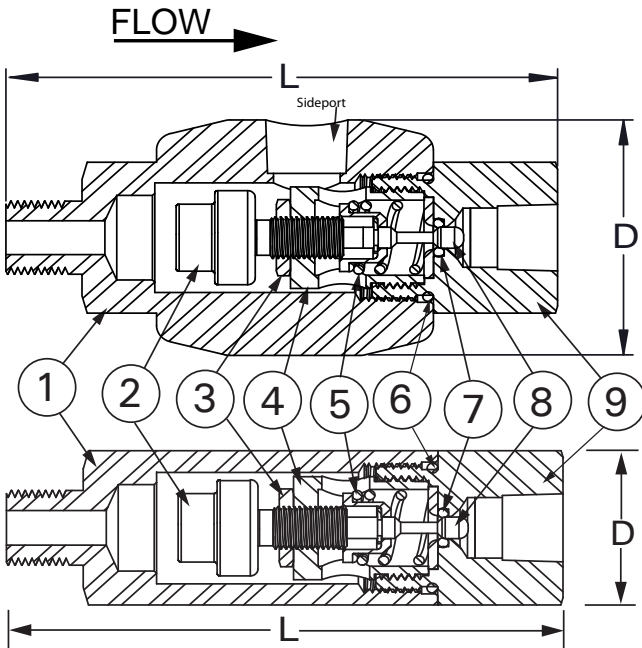
EcoFlow® contains a highly reliable, repeatable phase change actuator which is temperature sensitive and will open and close the valve depending on the temperature it is sensing.



TYPICAL INSTALLATION



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 _v	Maximum Operating Pressure	Maximum Temperature
		in.	mm	in.	mm	Lbs.	Kg			
EcoFlow®	1/4"	1.1	28	3.6	91	0.7	0.3	0.5	400 PSIG (27.6 BAR)	250°F (121°C)
EcoFlow® w/ side port		1.7	43			1.3	0.6			
EcoFlow®	3/8"	1.1	28	3.8	97	0.7	0.3			
EcoFlow® w/ side port		1.7	43			1.3	0.6			

ORDERING

Part Number ¹	Description
241-100000-XXX	1/4" EcoFlow® SS
241-100100-XXX	1/4" EcoFlow® SS w/ side port
241-111000-XXX	3/8" EcoFlow® SS
241-111200-XXX	3/8" 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/



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EcoFlow
Rev: 1/31/19

