



# Armstrong® Emech™ Model F2020 Flow Control Valve

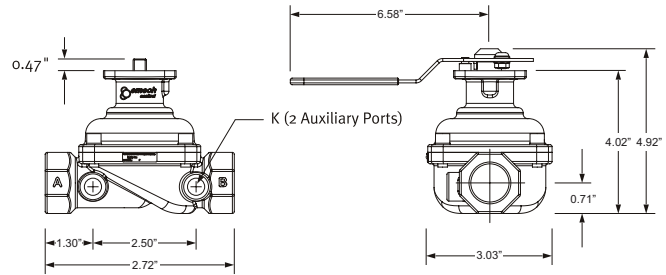
The Emech 2 port valve utilizes ceramic shear action disc technology to provide tight shut-off, high pressure differential capability and long life integrity.

Combined with the Emech electronic actuator, high speed stand alone closed loop temperature control is possible. The Emech port valve utilizes ceramic shear action discs as the dynamic seal.

The extremely hard nature of ceramic produces outstanding resistance to wear and cavitation damage compared with conventional elastomer and plastic seated valves, minimizing seal replacement and plant downtime.

## Valve Features

- ISO 5211, 5210 actuator flange mounting
- Valve constructed of CF8M (316) stainless steel
- 1/4 turn action
- Standard end connections: NPT, CL 150 flanged, sanitary end connections
- Ceramic discs: durable, corrosion resistant
- Top entry allows inline access to internal valve parts
- Body temperature range: -13°F to 257°F
- Rated pressure 145 psi(10 bar)
- Maximum dynamic pressure drop of 130 psi (9.6 bar)
- Bubble tight (zero leakage) shut-off. The seat seal exceeds the requirements of ANSIB16.104 and FCI 70-2 Classes V and Vi
- Manual handle option can be locked in both open and the closed position
- Manual handle kit includes stroke limiting feature to set the maximum opening of the steam port
- Design verification to ASME B16.34
- Liquid and gas capable



Emech Model F2020 Flow Control Valve	
Shipping weight	5 lbs (incl packaging)
Shipping box size	12.2" x 12.2" x 10.2" (W x L x H)

Flow Capacity (gpm)													
Model	Port Connection Sizes (NPT) Inlets x Outlets	Pressure Drop (psi)										Max. Flow	C <sub>v</sub>
		5	10	15	20	25	30	35	40	45	50		
F2020	3/4" x 3/4"	36	51	63	72	81	89	96	102	109	115	185	27.9

Note 1: Flow capacity based on specific gravity of water (water = 1) and Max Flow calculated on 130 PSI pressure drop.  
 Note 2: Sensible pipeline velocities are the only limit to the F2020 valve flow rate.

Designs, materials, weights and performance ratings are approximate and subject to change without notice. Visit [www.armstronginternational.com](http://www.armstronginternational.com) for up-to-date information.