

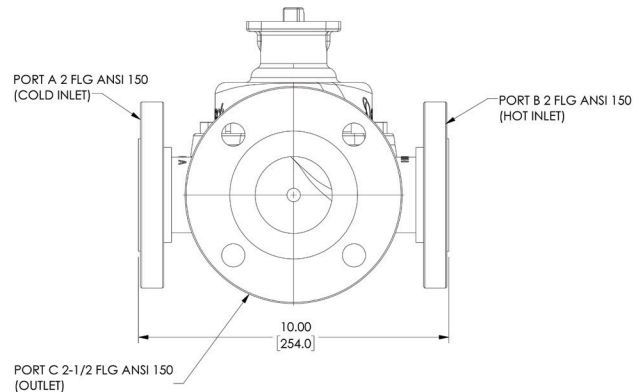
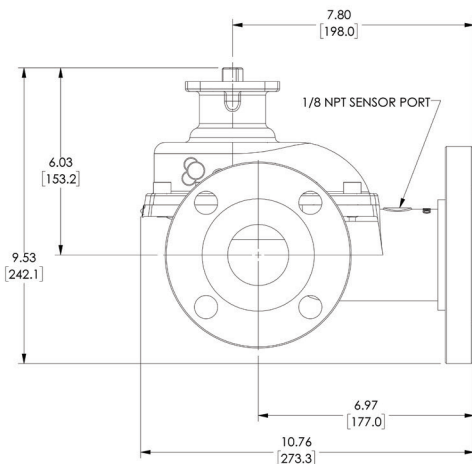


# Emech® Model F3050R Hot/Cold Mixer

The 3-port valve utilizes a unique shear action disc technology and swirl-mix body geometry to provide high performance dynamic fluid mixing. The nature of the valve seat design minimizes disc wear, outperforming conventionally seated valves, minimizing seal replacement and plant downtime.

## Valve Features

- ISO 5211, 5210 actuator flange mounting
- Valve constructed of C8FM (316) stainless steel
- Ceramic discs: durable, corrosion resistant
- End connection: CL150 flanges (contact Armstrong for other end connection options e.g. socket weld, sanitary fittings)
- Elastomer seal material options
- Top entry allows inline access to internal valve parts
- Temperature range: -13°F to 257°F
- Rated pressure 145 psi (10 bar), designed to ASME B16.34
- Bubble tight (zero leakage) shut-off
- Manual handle option lockable in both open and closed position
- Seat seal performs beyond the requirements of ANSI B16.104 and FCI 70-2, Classes V and VI
- Manual handle kit includes stroke limiting feature



Emech Model F3050 Hot/Cold Water Mixer	
Shipping weight	47 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 Inlets x Outlet	Pressure Drop (psi)										Nominal Min. Flow (Note 4)	Max. Flow	C <sub>v</sub>
		5	10	15	20	25	30	35	40	45	50			
F3050R	2" x 2-1/2" (ASME B16.5 Class 150 flanges)	107	151	185	213	239	261	282	302	320	337	20.0	Note 2	47.5

NOTE 1: Check valves MUST be installed on both inlets to the mixing system.

NOTE 2: Sensible pipeline velocities are the only limit to the F3050R mixing valve flows.

NOTE 3: Contact Armstrong or visit Web site for Armstrong F3050R valve sizing program and Application Notes.

NOTE 4: The nominal recommended Min. Flow is described as:

- The minimum flow at which temperature control can be readily achieved for the given valve size with the Actuator set at STANDARD control gain setting.
- Contact the factory for applications where flow conditions are lower than those stated above.

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