390 SERIES

PRODUCT FEATURES

Proportional Diaphragm Isolation Valve

- Flow increase proportional to current increase
- Inert wetted materials provide broad chemical compatibility
- Max pressure: 40 PSI (2.76 bar) standard Consult factory for higher pressure applications
- Flow rates: 0 80 SLPM air or 0 1.5 LPM water
- Integral diaphragm-poppet isolates flow path from solenoid
- Encapsulated coil for operation in wet environments
- Suitable for high fluid temperatures up to 203°F (95°C)
- Individual testing insures reliability and repeatability
- Porting and mounting design flexibility



390 2-Port Inline



391 2-Port Manifold

TYPICAL FLUIDS*

Biological solutions Dialysate

Renaline®

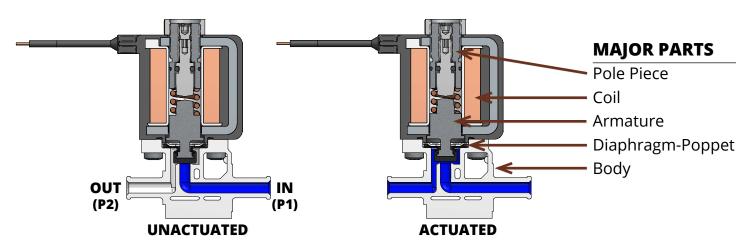
Formaldehyde

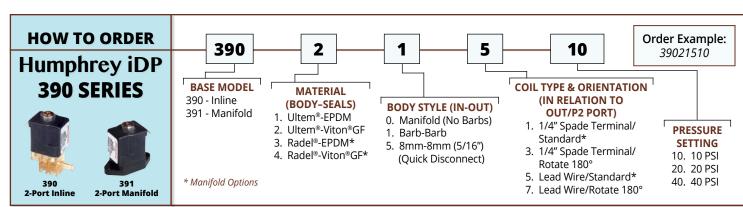
Saline

Dextrose/Sugars Hydrogen Peroxide

Citric Acid

Acetic Acid Sodium Hypochlorite *Consult factory for assistance.

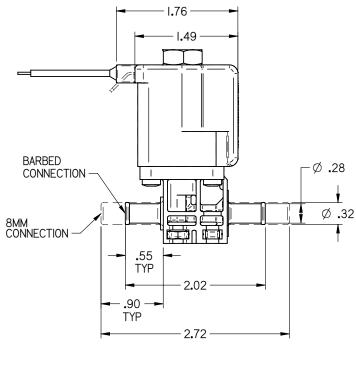


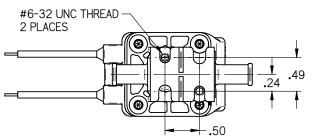


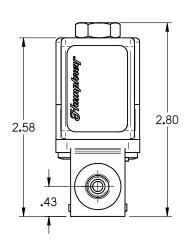


Humphrey 390 SERIES SPECIFICATIONS

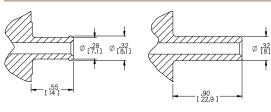
O turniprotos	
Valve Function:	Normally Closed
Wetted Parts (Body & Diaphragm-Poppet):	Ultem [®] or Radel [®] and Viton [®] GF or EPDM
Number of Ports:	2
Type of Operation:	Direct Solenoid, Media Separated
Piping Type:	Inline, Direct Piping
Media:	Aggressive Liquids (Gasses)
Internal Volume (Barb Body):	Unactuated Under Poppet: 0.026in³ Actuated: 0.062in³
Internal Volume (8mm Male Body):	Unactuated Under Poppet: 0.026in³ Actuated: 0.074in ⁸
Max Flow (Water) @ 40 PSI:	1.5 LPM
Max Flow (Air) @ 40 PSI:	80 LPM
Pressure Range:	Vacuum to 40 PSI
Fluid Temp Range:	-20°C to 95°C
Ambient Temp Range:	-20°C to 65°C
Port Size:	5/16" Barb; 8mm Quick Disconnection
Electrical Entry:	Spade Terminals or Lead Wires
Voltage:	24VDC
Operating Current Range:	0–250 mA
Voltage Tolerance:	±10%
Power Consumption:	8.3W
Weight:	0.42 lbs







BODY STYLE OPTIONS



5/16" Barb

8mm Quick Disconnection

RECOMMENDED MATING ELECTRICAL CONNECTION:

Spade Size: 1/4 inch Terminal

Lead Wires: Connect to 20 AWG x 45" length

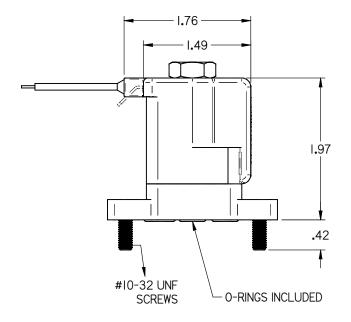


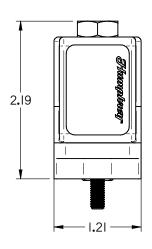


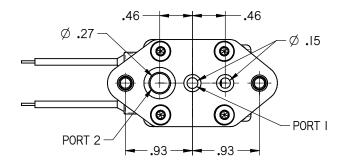


Humphrey 391 SERIES SPECIFICATIONS

O mingrous 331 SERIES SI ECII ICA 110113	
Valve Function:	Normally Closed
Wetted Parts (Body & Diaphragm-Poppet):	Ultem [®] or Radel [®] and Viton [®] GF or EPDM
Number of Positions:	2
Type of Operation:	Direct Solenoid, Media Separated
Piping Type:	Manifold
Media:	Aggressive Liquids (Gasses)
Max Flow (Water) @ 40 PSI:	1.5 LPM
Max Flow (Air) @ 40 PSI:	80 LPM
Pressure Range:	Vacuum to 40 PSI
Fluid Temp Range:	-20°C to 95°C
Ambient Temp Range:	-20°C to 65°C
Electrical Entry:	Spade Terminals or Lead Wires
Voltage:	24VDC
Operating Current Range:	0-250 mA
Voltage Tolerance:	±10%
Power Consumption:	8.3W
Weight:	0.42 lbs





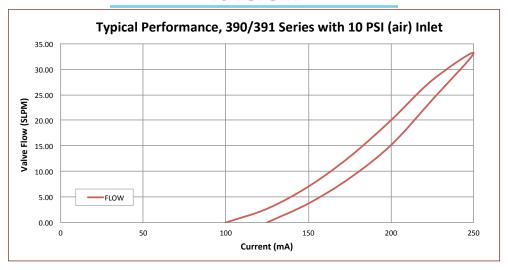


RECOMMENDED MATING ELECTRICAL CONNECTION:

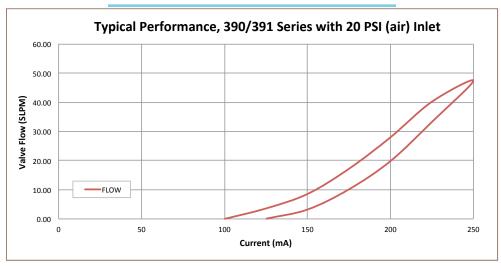
Spade Size: 1/4 inch Terminal Lead Wires: Connect to 20 AWG x 45" length

390 SERIES

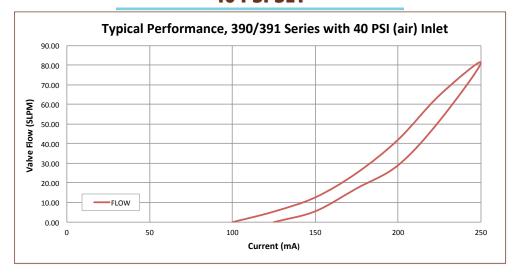
10 PSI SET



20 PSI SET



40 PSI SET



390/391 series valves are 100% factory calibrated and tested utilizing pneumatic DAQ driven system. This process insures a more stringent evaluation and precision calibration utilizing higher fidelity pneumatic instrumentation.