iDP Valves

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3-Port 370/371 Series **Inert Diaphragm-Poppet Valve**

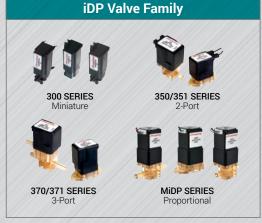
Introducing Humphrey 370/371 series iDP valves. These 3-way inert solenoid valves are purposely engineered to control aggressive liquids and gases in the most harsh environments. The flexing diaphragm-poppet design performance. The 370/371 series of valves may be used as a selector valve or diverter valve. In a selector application the rated pressure will be 30 PSI Max.

FEATURES

- Offering EPDM, Viton® or FFKM elastomers ensures multi-levels of chemical protection.
- Inert wetted materials provide broad chemical compatibility.
- · Max pressure: 40 PSI (2.76 bar) standard
- Flow rates @ 40 PSI: 220 SLPM air or 5.3 SLPM water
- Integral diaphragm-poppet isolates flow path from solenoid.
- Continuous-duty encapsulated coil for operation in wet environments.
- Suitable for high fluid temperatures up to 203°F (95°C)
- · Robust design; Long service life
- 100% factory tested.
- · Porting and mounting options offer design flexibility.









How to Order

iDP 370/371 Series

ORDER EXAMPLE 370 37031510 3 5

MODEL 370: Inline 371: Manifold **BODY/SEALS**

3: Radel®-EPDM

4: Radel®-Viton®GF

5: Radel®-FFKM

BODY STYLE (IN-OUT)

0: Manifold (No Barbs) Barb-Barb

8mm-8mm (5/16") (Quick Disconnect) **COIL TYPE & ORIENTATION**

(In Relation to OUT/P2 Port)

1: 1/4" Spade Terminal/Standard*
3: 1/4" Spade Terminal/Rotate 180°
5: Lead Wire/Standard*

Lead Wire/Rotate 180°

N.O. PORT 0: Manifold*

1: Inline

5: Rotate 180°

iDP Valves 3-Port 370/371 Series

SPECIFICATIONS	IDP 370	IDP 371
TYPE OF OPERATION	Direct Solenoid, Media Separated	
FUNCTION	3-Way, Normally Closed	
MEDIA	Aggressive Liquids (Gases)	
WETTED PARTS: BODY AND SEALS (DIAPHRAGM-POPPET)	Radel® and FFKM, Viton®GF or EPDM	
PRESSURE RANGE – PSI (BAR)	0–40 PSI (2.76) Consult factory for higher pressure or vacuum application.	
PIPING TYPE	Inline, Direct Piping	Manifold Mount
INTERNAL VOLUME: BARB BODY	Unactuated Under Poppet: 0.026in ³ Actuated: 0.062in ³	Unactuated Under Poppet: 0.004in³ Actuated: 0.037in³
WATER FLOW @ 40 PSI (TYP)	5.3 SLPM	
AIR FLOW @ 40 PSI (TYP)	220 SLPM	
FLUID TEMPERATURE	EPDM: -20°C to 95°C FKM: 0-95°C FFKM: 0-95°C	
AMBIENT TEMPERATURE	EPDM: -20°C to 65°C FKM: -10°C to 65°C FFKM: 10-65°C	
CYCLES/MIN	300	
RESPONSE TIME @ 40 PSI (TYP)	20 msec	
PORT SIZE	5/16" Barb; 8mm Quick Disconnection	
ELECTRICAL ENTRY	Spade Terminals or Lead Wires	
VOLTAGE	24VDC	
VOLTAGE TOLERANCE	±10%	
POWER CONSUMPTION (WATTS)	8.3	
WEIGHT	0.40 lbs	0.42 lbs

MEDIA COMPATIBILITY

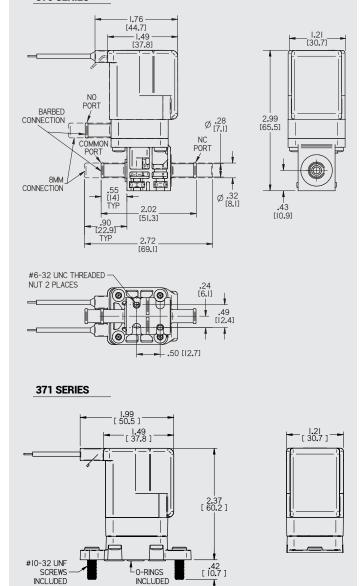
- · Citric Acid
- Formaldehyde
- · Biological Solutions
- · Sodium Hypochlorite
- Dextrose/Sugars
- · Dialysate
- Hydrogen Peroxide
- · Acetic Acid
- Bleach/Lye
- · Most aggressive medias

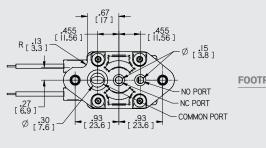
APPLICATIONS & MARKETS

- Kidney Dialysis
- · Analytical Chemistry
- · Diagnostic Systems
- Agent Detection
- · Environmental Monitoring
- Food and Beverage
- · Gaseous Flow Control
- · Water Purification
- Clinical Equipment Waste Systems

Dimensional Drawings

370 SERIES





INCLUDED

FOOTPRINT

[] = mm

RECOMMENDED MATING ELECTRICAL CONNECTION Spade Size: 1/4 inch Terminal Lead Wires: Connect to 20 AWG x 24" length

Certified: ISO 9001:2015

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