iDP Valves

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300 Series, 2-Port **Inert Diaphragm-Poppet Valve**

Introducing Humphrey's 300 series iDP 2-way inline and 2-way manifold valves. Inert solenoid valves are designed to control aggressive media in most harsh environments. When size and space require a more compact design consider the 300 series iDP. The flexing media ensuring sustained performance and long life.

FEATURES

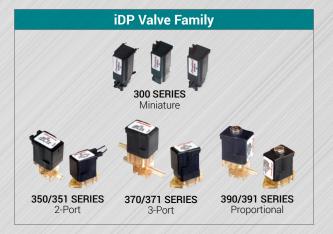
- Inert wetted materials provide broad chemical compatibility:
 - Body/Fitting Elements PEEK (Polyethylethylketone) Diaphragm-Poppet/Seals – Viton®-GF or EPDM
- · Max pressure: 40 PSI [2.76 bar] standard
- Barb Valve, Flow rates @ 40 PSI: 50 SLPM air or 1.45 SLPM water
- or 1.83 SLPM water.
- Coil encapsulation protects from corrosive external fluid
- Various port types and manifold mounting provides design flexibility.
- Robust design; Tested to beyond 20 million cycles.
- 300 Series, 3-Port Inline Barb Valve also available.







300 2-Port Manifold Mount



ACCESS ONLINE CATALOG

Obtain 3D CAD Download, CAD Viewer, 2D Dimensional Drawings, Product Images, DataSheet PDFs, Product Accessories



How to Order

iDP 300 Series, 2-Port

300

MODEL

BODY

7. Viton®GF*

BODY STYLE (IN-OUT) 1. 2-Port Inline, NC 4. 2-Port Manifold Mt, NC

1

PORT TYPES 0. Manifold (No Barbs)

 1. 1/16" Tube Barbs
2. 3/32" Tube Barbs 3. 1/8" Tube Barbs

3

SOLENOID

1. 12 VDC - Pin Connector**
3. 24 VDC - Pin Connector**

5. 12 VDC – Wire Leads 7. 24 VDC – Wire Leads

0 30071130

ORDER EXAMPLE

* Highly Fluorinated Viton®

** Mating Option: Tyco 640442-2 Molex 22-01-2027

iDP Valves 300 Series, 2-Port

SPECIFICATIONS	IDP 300 INLINE	IDP 300 MANIFOLD	
TYPE OF OPERATION	Direct Solenoid, Media Separated		
NUMBER OF POSITIONS	2		
FUNCTION	Normally Closed		
MEDIA	Aggressive Liquids and Gases		
WETTED PARTS: BODY AND DIAPHRAGM-POPPET	PEEK, Viton®GF or EPDM		
PRESSURE RANGE – PSI (BAR)	Vacuum to 40 PSI (2.76)		
PIPING TYPE	Inline, Direct Piping	Manifold Mount, Sub-base Piping	
WATER FLOW @ 40 PSI (TYP)	1.45 SLPM	1.83 SLPM	
AIR FLOW @ 40 PSI (TYP)	50 SLPM	62 SLPM	
FLUID TEMPERATURE	-20°C to 95°C		
AMBIENT TEMPERATURE	-20°C to 65°C		
CYCLES/MIN	300		
RESPONSE TIME @ 40 PSI (TYP)	25 msec		
PORT SIZE	1/16", 3/32" or 1/8"		
ELECTRICAL ENTRY	Plug-In or Lead Wires		
VOLTAGES	12VDC, 24VDC		
VOLTAGE TOLERANCE	±10%		
POWER CONSUMPTION (WATTS)	3.5		
WEIGHT	0.22 lbs	0.27 lbs	

300 SERIES, 2-WAY INTERNAL VOLUMES	1/16" Barb Body	3/32" Barb Body	1/8" Barb Body	Manifold
UNACTUATED UNDER POPPET	0.007in ³	0.007in ³	0.009in ³	0.004in ³
ACTUATED	0.013in ³	0.014in ³	0.017in ³	0.012in ³

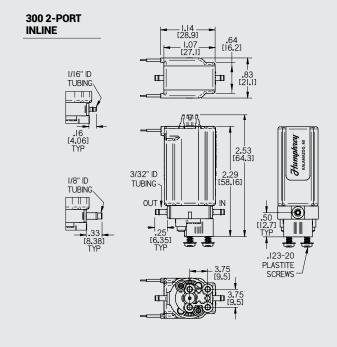
MEDIA COMPATIBILITY

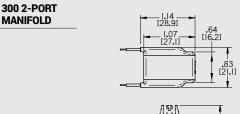
- Citric Acid
- Formaldehyde
- Biological Solutions
- Sodium Hypochlorite
- Dextrose/Sugars
- Dextrose/S
- Dialysate
- Hydrogen Peroxide
- Acetic Acid
- Bleach/Lye
- Most aggressive medias

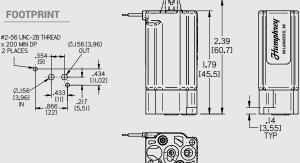
APPLICATIONS & MARKETS

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

DIMENSIONAL DRAWINGS







RECOMMENDED MOUNTING HARDWARE Screws:

SHCS #2-56 x 5/16 with 5/64 Hex Head

Screw Install Tool:

5/64 Hex Head Ball End Screw Driver (McMaster-Carr 5497A24; Grainger 29RU75)

[] = mm

RECOMMENDED MATING ELECTRICAL CONNECTION

For Pins: Tyco 640442-2; Molex 22-01-2027 Lead Wires: Connect to 22 AWG x 24" length

Certified: ISO 9001:2015

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