iDP Valves

Humphrey®

300 Series, 3-Port Inline **Inert Diaphragm-Poppet Valve**

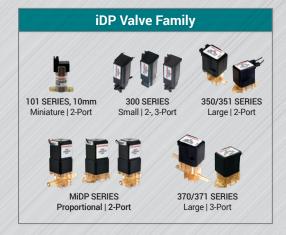
Introducing Humphrey's 300 series iDP 3-way inline valve. Inert solenoid valves are designed to control aggressive media in most harsh environments. consider the 300 series iDP. The flexing diaphragmpoppet design isolates the solenoid from media ensuring sustained performance and long life.

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
- Flow rates @ 40 PSI: 50 SLPM air or 1.45 SLPM water
- Various port types and coil inputs provide design flexibility.
- · Robust design; Tested to beyond 20 million cycles.
- 300 Series. 2-Port Inline and Manifold Valves also available.



300 3-Port Inline, Direct Piping





How to Order

iDP 300 Series, 3-Port Inline

300

MODEL

3

BODY STYLE (IN-OUT) 3. 3-Port Inline

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

0

ORDER EXAMPLE

30073130

7. Viton®GF*

- SOLENOID 1. 12 VDC - Pin Connector**
 3. 24 VDC - Pin Connector**
- **5.** 12 VDC Wire Leads **7.** 24 VDC Wire Leads
- * Highly Fluorinated Viton®
- ** Mating Option: Tyco 640442-2 Molex 22-01-2027

iDP Valves 300 Series, 3-Port Inline

SPECIFICATIONS	IDP 300 3-PORT INLINE	
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: DIVERTER – PSI (BAR)	Vacuum to 40 PSI (2.76)	
REVERSE PRESSURE RANGE: SELECTOR – PSI (BAR)	Vacuum to 10 PSI (0.7)	
PIPING TYPE	Inline, Direct Piping	
WATER FLOW @ 40 PSI (TYP)	1.45 SLPM	
AIR FLOW @ 40 PSI (TYP)	50 SLPM	
FLUID TEMPERATURE	-4°-203°F (-20°-95°C)	
AMBIENT TEMPERATURE	-4°-149°F (-20°-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	

300 SERIES, 3-WAY INTERNAL VOLUMES	1/16" Barb Body	3/32" Barb Body	1/8" Barb Body
UNACTUATED (COMMON & NO)	0.010in ³	0.012in ³	0.014in ³
ACTUATED (COMMON & NC)	0.009in ³	0.010in ³	0.022in ³

MEDIA COMPATIBILITY

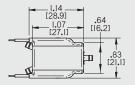
- Citric Acid
- Formaldehyde
- Biological Solutions
- Sodium Hypochlorite
- Dextrose/Sugars
- Dialysate
- Hydrogen Peroxide
- Acetic Acid
- Bleach/Lye
- Most aggressive medias

APPLICATIONS & MARKETS

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

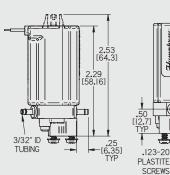
DIMENSIONAL DRAWINGS

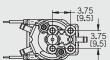
300 3-PORT INLINE





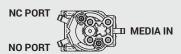






300 Series 3-port may function either as a diverter valve or selector valve at 10 PSI.

As a **DIVERTER VALVE** (up to 40 PSI inlet)



As a **SELECTOR VALVE** (up to 10 PSI either inlet)



[] = mm

RECOMMENDED MATING ELECTRICAL CONNECTION

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

Certified to the ISO 9001:2015 Standard.

HUMPHREY-PRODUCTS.COM

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