# **iDP Valves**

## 101 Series

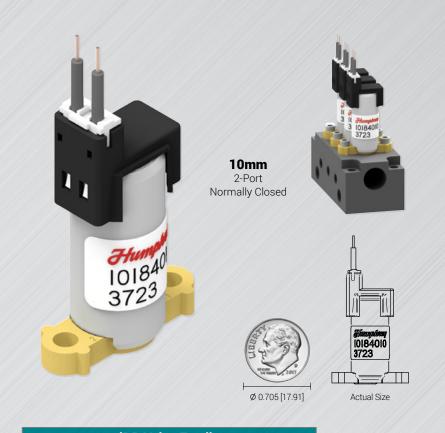


# 10mm, 2-Port Manifold iDP Valve

Introducing Miniature iDP. Just 10 millimeters aggressive media valve delivers precise control, reliable performance and low internal volume for micro-dosing applications in the medical technology and analytical fields. Applications include the control of fluids and chemical reagents used in microfluidics, DNA analysis, and blood, urine and tissue sampling. This simple, straightforward design delivers trouble-free performance for millions of cycles.

#### **FEATURES**

- - Radel® body FKM or EPDM elastomers
- · Low internal volume:
  - 30 µL actuated
  - 3.6 µL unactuated (under seat)
- Fluid pressures to 30 PSI [2.06 bar]
- Flow rates to 550 mL/min [water]
- Compact subbase mount for easy system
- Tight footprint allows for multiple valves in a small area.
- Ideal for micro-dosing engineered solution







## **How to Order**

101 Series || 10mm, 2-Port Manifold iDP Valve

ORDER EXAMPLE 101 8 0 3 0 10184030

**MODEL** 

7: Radel®-FKM 8: Radel®-EPDM **BODY STYLE (IN-OUT)** 4: 2-Port Manifold NC

**PORT TYPES** 0: Manifold

SOLENOID

1: 12VDC - PIN Connector 3: 24VDC - PIN Connector

# iDP Valves 101 Series 10mm, 2-Port Manifold iDP Valve

SPECIFICATIONS	10MM
TYPE OF OPERATION	Direct Solenoid, Media Separated
FUNCTION	2-Way, Normally Closed
MEDIA	Aggressive Liquids (Gases)
PIPING TYPE	Manifold
WETTED PARTS	Radel® and FKM or EPDM
INLET PRESSURE - PSI (BAR)	0–30 PSI (2.07) Consult factory for higher pressure or vacuum application.
MAX BACK PRESSURE - PSI (BAR)	15 (1.03)
WATER FLOW @ 30 PSI	550 mL/min
AIR FLOW @ 30 PSI	20 SLPM
FLUID TEMPERATURE	EPDM: -4°-203°F (-20°-95°C) FKM: 32°-203°F (0-95°C)
AMBIENT TEMPERATURE	EPDM: -4°-149°F (-20°-65°C) FKM: 32°-149°F (0-65°C)
CYCLES/MIN @ 30 PSI	600
RESPONSE TIME @ 30 PSI	15 msec
ELECTRICAL ENTRY - PLUG-IN	ZHR-3 connector 26 AWG x 18" wire supplied.
VOLTAGES	12VDC, 24VDC
VOLTAGE TOLERANCE	±10%
POWER CONSUMPTION (WATTS)	1.5
WEIGHT (OZ)	0.4

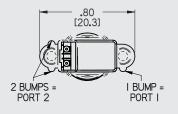
#### **MEDIA COMPATIBILITY**

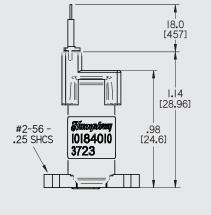
- · Concentrated Nitric Acid
- Sodium Hydroxide
- Ethylene Diamine
- Ethylene Glycol
- Renaline®
- nerialitie®
- Formaldehyde
- · Biological Solutions
- · Sodium Hypochlorite
- Dialysate
- Hydrogen Peroxide
- Bleach/Lye

## **APPLICATIONS & MARKETS**

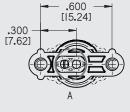
- Micro-dosing
- DNA Processing
- Blood, Urine and Tissue Analyzers
- Microfluidics
- Ink Jet Printing

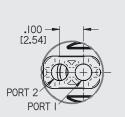
### **DIMENSIONAL DRAWINGS**





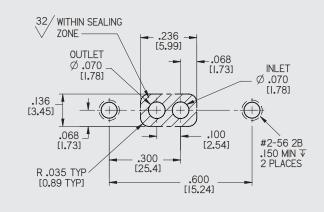






DETAIL A

### MOUNTING PATTERN



**MOUNTING SCREW** (supplied) #2-56 - .25 SHCS Suggested torque: 1.5 ± 0.5 in-lbs

Certified to the ISO9001:2015 Standard.

[]=mm

#### **HUMPHREY-PRODUCTS.COM**

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