

# Smart On/Off valves



Find out more

Smart On/Off valves from Dolphin Fluidics are 2-way medium separated, normally closed, valves for dispensing and mixing. Our valve is the smartest, cleanest, lightest, smallest and most efficient solution to control flow.

Each product can be fully customized according to application needs, in terms of interfaces, fluidics performance and electronic control.

Advantages:

- Air/liquid dispensing and mixing valve
- On/Off control
- Simple and light, 10 times lighter than existing valves
- Reliable sealing system with medium separation
- Low power actuator, 20 times less than existing valves
- Noiseless operation
- Patented design
- NSF/FDA material compliancy



## MAIN APPLICATIONS

- Hot and cold beverage
- Medical equipment
- Analytical and diagnostic
- Agriculture
- White goods
- Industrial

## TECHNICAL INFORMATION

DFP.DSO.002.050



Pilot operated valve

DFD.DSO.000.050



Direct operated valve

Dual 2/2 NC

Medium separated valve

On/Off control

100% duty cycle and continuous duty

Air or liquid

Body materials: POM, PEEK, PPS, PP, PPO, PA

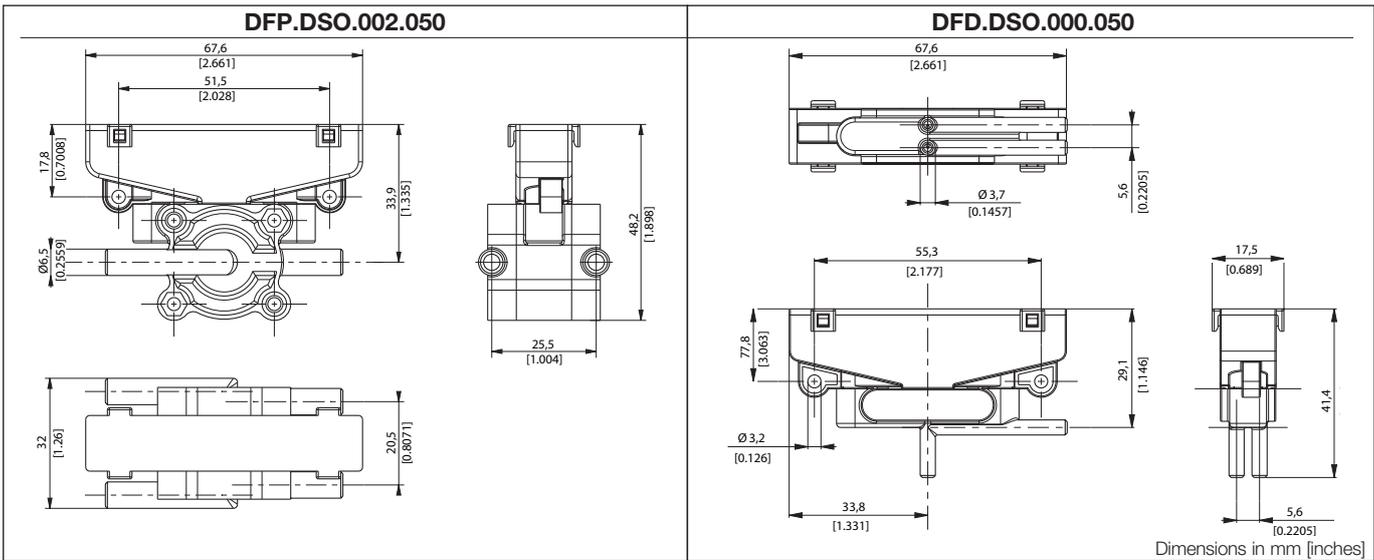
Seal materials : EPDM, FPM, VMQ, PTFE, SBR, FFPM, NBR

### FLUIDIC PERFORMANCE

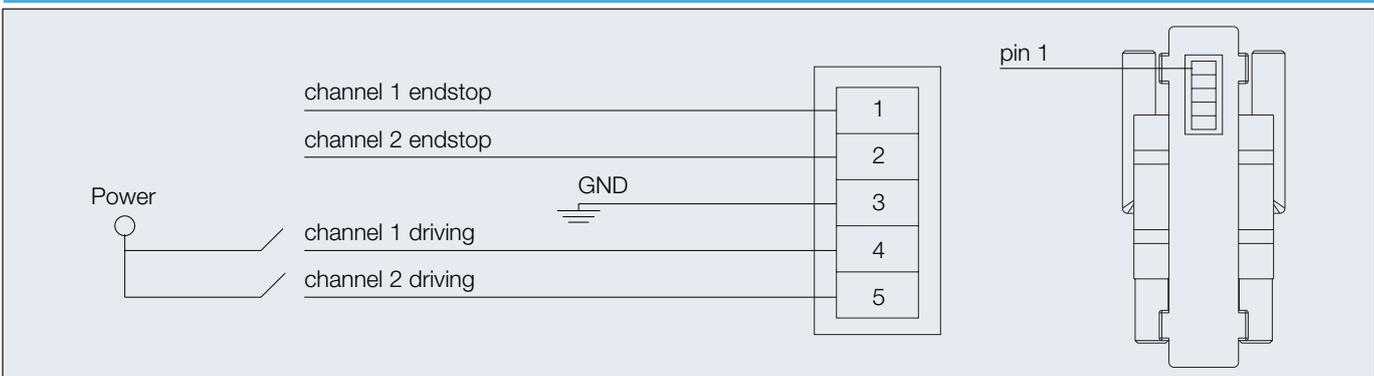
	DFP.DSO.002.050	DFD.DSO.000.050
Minimum $\Delta P$	0.2 bar	0 bar
Maximum $\Delta P$	5 bar	5 bar
Kv	0.27 m <sup>3</sup> /h/bar	0.008 m <sup>3</sup> /h/bar
Orifice diameter	4 mm	0.8 mm
Mounting details	Any direction	Any direction
Fluid connections	Barbed (other upon request)	Barbed (other upon request)
Fluid temperature	$\leq 130^{\circ}\text{C}$	$\leq 130^{\circ}\text{C}$
Environmental temperature	$-10^{\circ}\text{C} \dots +65^{\circ}\text{C}$	$-10^{\circ}\text{C} \dots +65^{\circ}\text{C}$

### ACTUATOR CHARACTERISTICS

Operating voltage	2 - 5 VDC
Operating current	150 mA
Maximum current I <sub>MAX</sub>	250 mA
Actuation power	0.3 - 0.6 W
Holding power	0.15 W
Rise time	150 ms
Expected life	Million cycles (depending on application)



### ACTUATOR PINOUT



Dolphin Fluidics reserves the right to alter the specifications indicated in this catalogue at any time and without prior notice.