

Emulsion control valves

Smart proportional valves from Dolphin Fluidics are 2-way medium separated, normally closed, valves for precision dosing, dispensing and mixing.

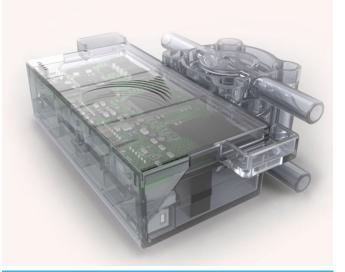
The emulsion control valve has 2 independent channels.

Channel 1 proportionally controls the air intake flow rate, channel 2 open and close a liquid/steam flow.

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

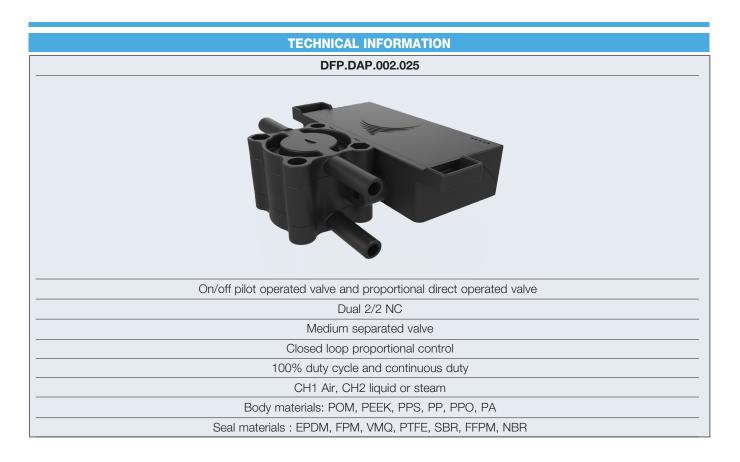
Advantages:

- Air/liquid dosing and dispensing valve
- Closed loop proportional 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
- Wireless data communication, remote control and maintenance
- Patented design
- NSF/FDA material compliancy



MAIN APPLICATIONS

• Milk frothing

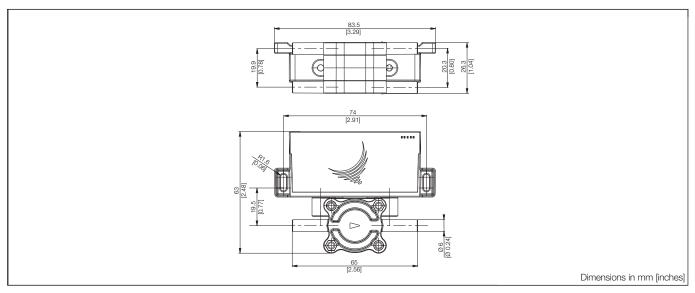






FLUIDIC PERFORMANCE											
	DFP.DAP.002.025										
Minimum ∆P	CH1 0 bar, CH2 0.2 bar										
Maximum ∆P	CH1 1 bar, CH2 2.5 bar										
Orifice diameter	CH1 1,2 mm, CH2 3 mm										
Mounting details	Any direction										
Fluid connections	Barbed (other upon request)										
Fluid temperature	≤ 130°C										
Environmental temperature	-10°C +65°C										

ELECTRONIC CHARACTERISTICS											
Operating voltage	5 - 24 VDC										
Actuation power	0.6 W per channel @ 5 VDC										
Stand-by power	0.2 W @ 5 VDC										
Rise time	150 ms										
Expected life	Million cycles (depending on application)										
Proportional control input	Analog / Digital / PWM / Serial / I ² C / BLE										
Sensor input	Analog / Pulses / I ² C										
Communication and user interface	Serial / I ² C / BLE / Digital I/O / Status LEDs										



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