



# Stokes Microfluidics



MSP1.7

## Technical Data for the **MSP1.7**

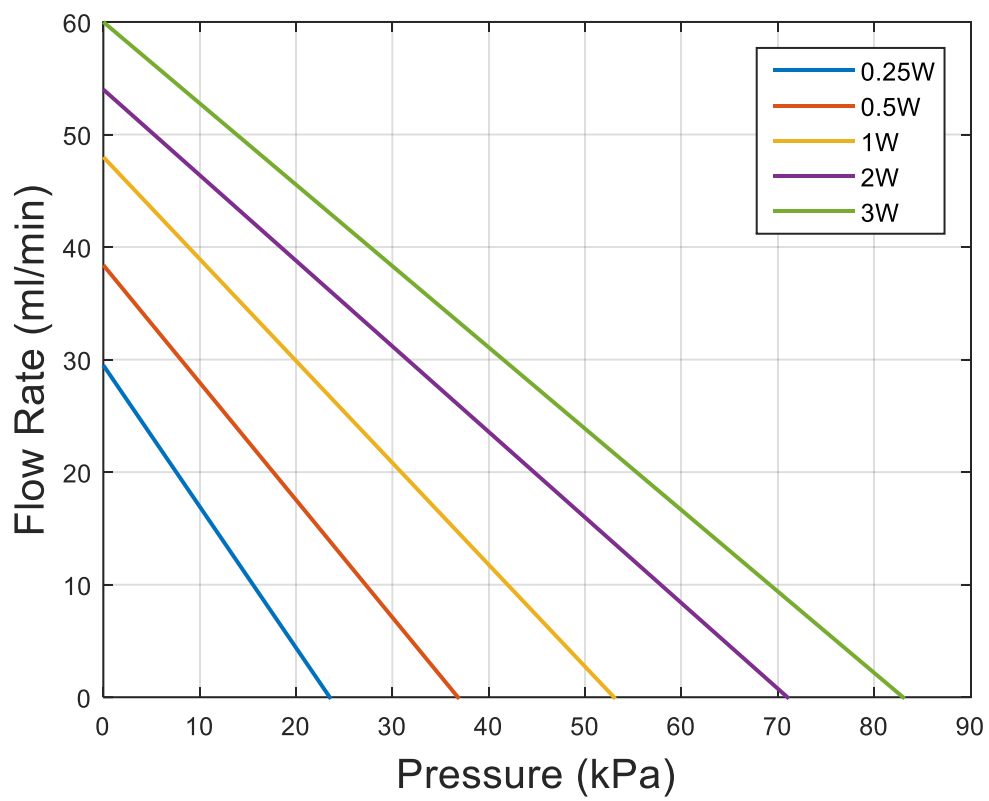
<b>Technology</b>	Electromagnetic
<b>Power</b>	100 mW → 3 W <sup>1</sup>
<b>Dimensions</b>	21.5 mm x 10.5mm (excluding connector)
<b>Volume</b>	1.7 cm <sup>3</sup>
<b>Weight</b>	9.6g
<b>Wetting surface</b>	316 SS & Si <sub>3</sub> N <sub>4</sub> (Standard) or Titanium.
<b>Maximum flow rate Q (<math>\Delta P = 0</math>)</b>	45 ml/min @ 1W
<b>Maximum Pressure P (Q = 0)</b>	50 kPa @ 1W
<b>Lifetime</b>	30,000 hr <sup>2</sup>
<b>Operational temperature</b>	-65 – 125 °C
<b>Driver</b>	EMD type 1 or EMD type 2
<b>Fluidic connector</b>	Cone, 3.5 mm outer diameter, 4mm in length <sup>3</sup>
<b>Electric connector</b>	Male RE 2 pin JST (2.54 mm pitch)
<b>Medium</b>	Liquid
<b>Self-priming</b>	Yes <sup>4</sup>
<b>Maximum internal pressure</b>	100 MPa

1: Maximum 3W continuous use, 5 W in short burst <30s

2: Continuous 3W, room temperature, Water.

3: Recommended fluidic tubing:

4: Self priming at < 20 Kpa differential pressure



Pressure Flow-rate characteristics at 0.25, 0.5, 1, 2 & 3 W