

Pump head-MCX series

MC4X

Flow: 0.00024-30mL/min

Using tubing: Inside diameter range: 0.19-3mm; wall range: 0.7-1.1mm

Number of channels: 1, 2, 3, 4, 5, 6, 8, or can be combined in series, for example, 8+8=16

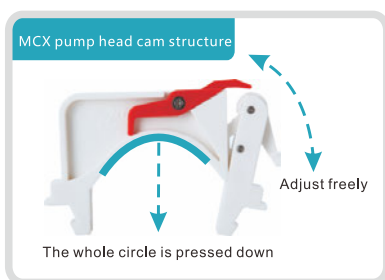
Application: Commonly used for supporting various types of small flow multi-channel machinery, such as medical equipment, pharmaceutical machinery, food machinery, chemical machinery, etc.; thinner tubes can be used, 4 rollers have a larger flow than 8 rollers, and the number of channels can be selected is more flexible; it adopts the cam structure, which is convenient and quick to install the tubing.

Characteristics

1. The roller device adopts full ball bearing design, supports high-speed operation, long life, stable operation and low noise.
2. The pressing block and the base are formed at one time by the machining center, with high dimensional accuracy and precise flow.
3. The card material is imported POM, which has high wear resistance, high dimensional accuracy and long service life.
4. The card adopts a cam structure, opened from above, easy to disassemble, easy to replace and fix the tubing, the pressure can be fine-tuned to adapt to tubes with different wall thicknesses, and the application is flexible.
5. Multi-channel transmission. Multiple pump heads can be connected in series and multiple drives can be connected if the driving capacity allows.
6. The roller device is made of 304 stainless steel, which is suitable for the occasions with high requirements of complex environment and hygienic level.

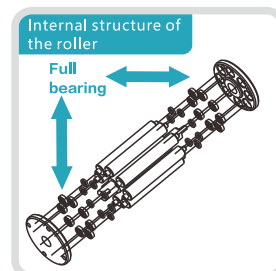


Advantages of MCX pump heads over the first generation



1. The first-generation products use thorn wheels to adjust the pressure. The card cannot be recalled once over pressure. It must be released to readjust. During the adjustment process, the arc does not move as a whole, the partial arc is pressed down, causing the pressure is not uniform and partial over pressure, and the life of the tubing is short; while the MCX pump head adopts a cam structure, which can be adjusted freely, so we can get a uniform pressure and long tubing life.
2. The first-generation products need to open the card below difficulty. In the case of a large number of channels, the operation is difficult and requires large space, it is inconvenient in the compact space supporting facilities, while the cam structure of the MCX pump head can make the user convenient and it is easy to remove the card from above.

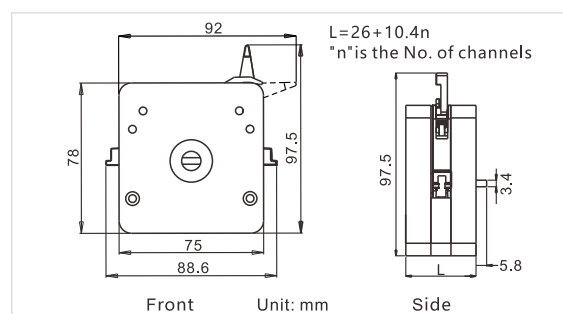
The MCX series products abandon the traditional oil-bearing bearing structure and adopt a full bearing structure, which has stable operation, low noise and long life.



Specification

Pump head model	MC4X		
Technical index			
Using tubing	ID: 0.19-3mm; Wall: 0.7-1.1mm	Shell material	Aluminum alloy + POM
Flow range	0.0002-30mL/min	Roller material	SS
Tubing wall	0.7-1.1mm	Roller No.	4
Weight (unit: kg)	0.43+0.11n ("n" is the No. of channels)	Full bearing	Yes
Pressure adjust	Yes	Product No.	02050414
Factory pressure	According the lever position		

Size



Using tubing and flow range (part)

Tubing size ID*Wall mm	Flow (mL/min) (0.1-100rpm)
0.19*0.9	0.00024-0.24
0.25*0.9	0.00042-0.42
0.5*0.8	0.00166-1.66
1*1	0.00556-5.56
2*1	0.0206-20.6
2.4*0.85	0.024-24
2.79*0.85	0.03-30

Flow reference curve

