



TH152 OEM

M50043

# **Product Specifications**

## Product specification

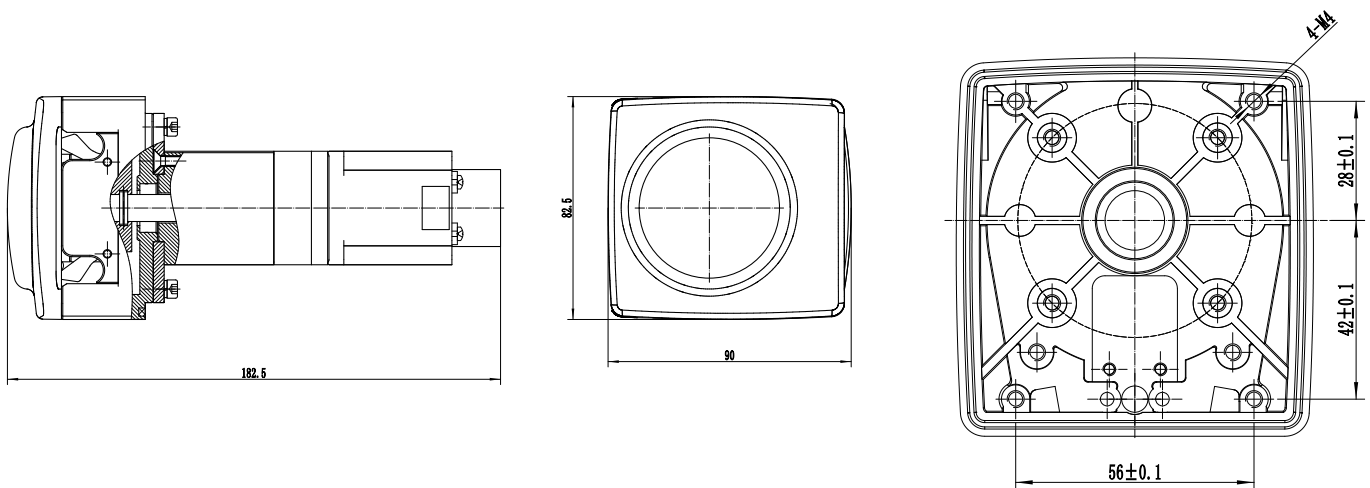
Model	DC brushless Motor-TH152
Motor	DC brushless Motor, Servo Drive
Pump head	TH152
Tubing	Φ 6 * Φ 10
Product code	M50043



### Features:

- The pump head uses the streamlined casting, metal shell, surface with Teflon coating the pump cover use the high transparent PC material.
- Spring roller assembly efficiently decreases tubing abrasion, maintain exit pressure from 0–1.5 bar, pump head spring reduce pressure avoid fluid erupting.
- Low noise, IMS planetary gear reducer imported from Germany, low noise and long life.
- Servo control, speed, torque, closed loop control, speed running smoothly, precise control, torque could adjust according to the load change.
- Low heat, servo control brushless motor, flow rate change accordingly, the temperate below 3°C.
- RS232 communication, ModBus RTU communication protocol control start, stop and rotation speed.

### Dimension



### Specifications

Configuration	TH152 Pumphead+DC servo motor with IMS gear box+Drive		
	Motor consists of 42 DC servo motor and IMS gear box+Drive		
Dimension	Pump head 82.5*90*50.5		
Flow rate	0–430ml/min		
Operating noise	< 48dB		
Cotrol	Communication protocol : Modbus RTU	Port: RS232	Baud Rate: 38400

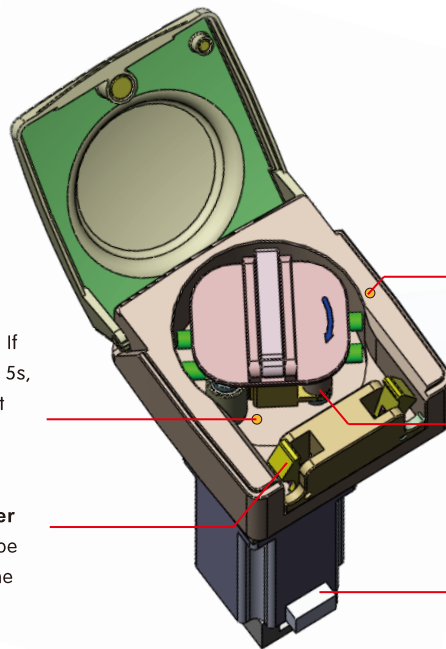
**Safety Protection Design**

**Monitoring Unit**

To monitor the rotor operation. If the rotor is not detected within 5s, the alarm will sound to prevent abnormal rotor running during normal motor operation.

**Self-adjustment Tube Holder**

Quick-load design for easy tube loading and unloading with one hand.



**Magnetic Switch Protective Facility**

Cease pumping in case of opening cassette by accident during operation.

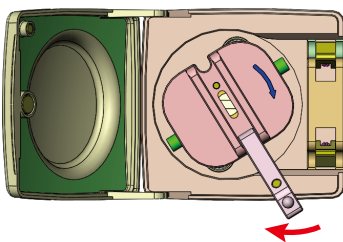
**Sprung Rotor**

Different sized tube options for transferring different physical properties blood.

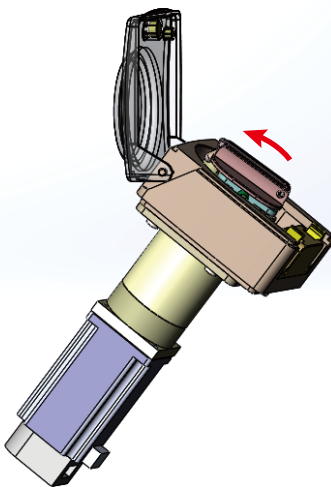
**High Precision Encoder**

Pump status signal feedback.

★ **In charged State**

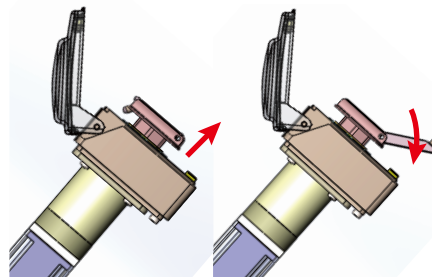


Unfold the hand-crank to rotate the rotor for keeping normal flow

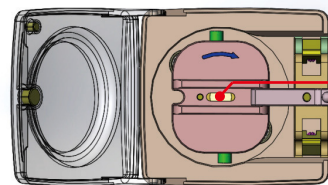


Fold the hand-crank back when finished

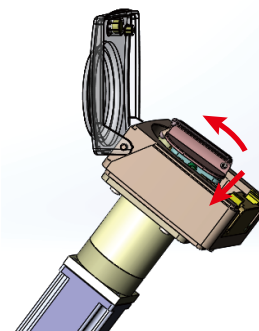
★ **Accidently Power Outage**



For easier operation, roll out the interface from motor shaft and then unfold the hand-crankd to rotate

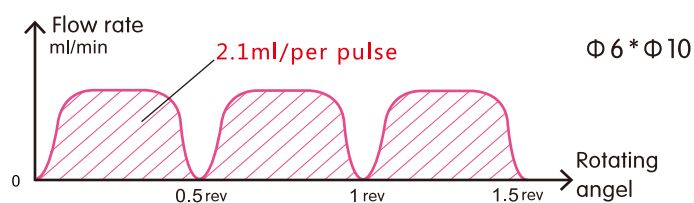


When completed, Align the central position hole of console disk with motor shaft by turning



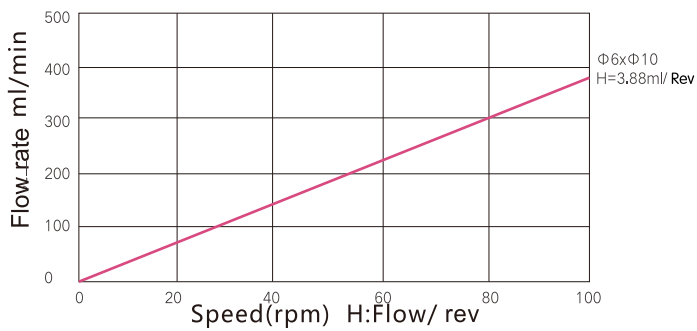
Press the interface down to the original position, fold back the crank

**Pulsation Diagram**



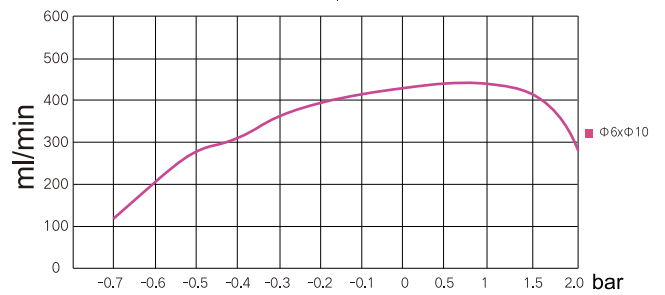
**Flow rate curve**

Obtained with pumping water at 25°C, 1 atm



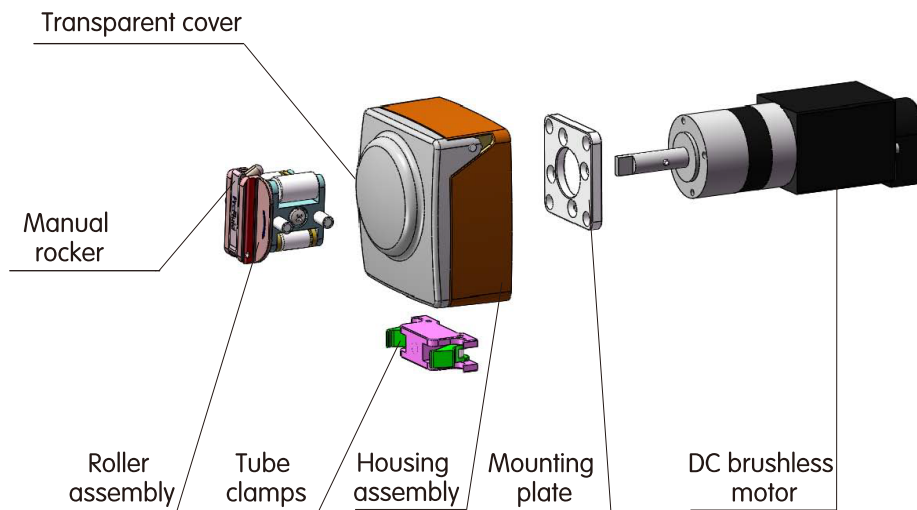
**Export back pressure flow rate curve**

Working condition: zero import pressure/pump speed  
100rpm/medium 20  
100rpm/min



when the export reach to 1.5bar, the spring release the pressure to stop the liquid

**TH152 Structure**



**Tubing loading**



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