

# FLUIDIC HIGH TECHNOLOGY

Made with PTFE and PCTFE, the FHT Stepper Motor Rotary Valves are designed for Medical, chemical, biological, environmental industries and the laboratory instruments and devices. These valves will replace the existing fluidic control systems such as manifolds installed with multi isolation valves and are being widely used for various new fluidic control projects and innovations.

## Stepper Motor Rotary Valve Characteristics

No metal parts contact fluid path. Compatible with aggressive and/or reactive fluids

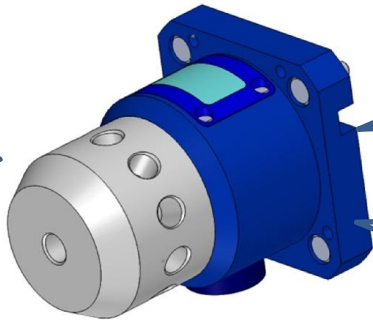
Exclusive sealing surface design maintains consistent torque in a specified range

Precisely machined and polished assembly process guarantees highly reliable valves

Exclusive optical sensor and encoder design for highly accurate positioning

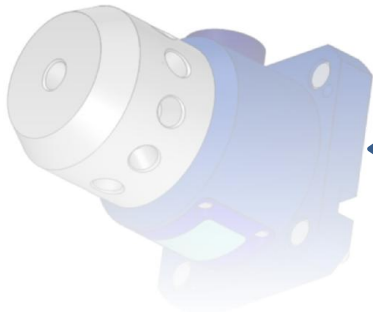
Orifice sizes up to 6.0mm (.236")

Valves designed for Up to 20 Ports

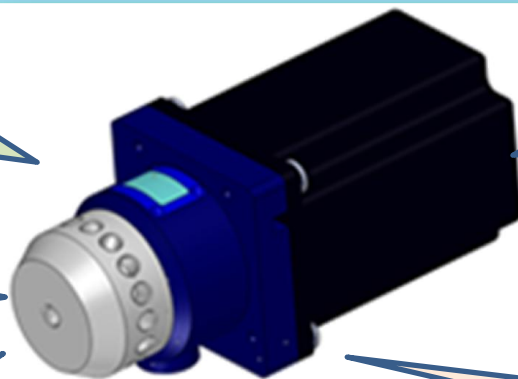


Valves designed for the longest life, up to 10M cycles

Modified housing design provide a better and easier way to mount the valves on instruments



Designed and manufactured with smooth internal flow paths for easy flushing and cleaning of internal paths



Designed for using standard NEMA 17 or 23 size, 1.8° Stepper Motors

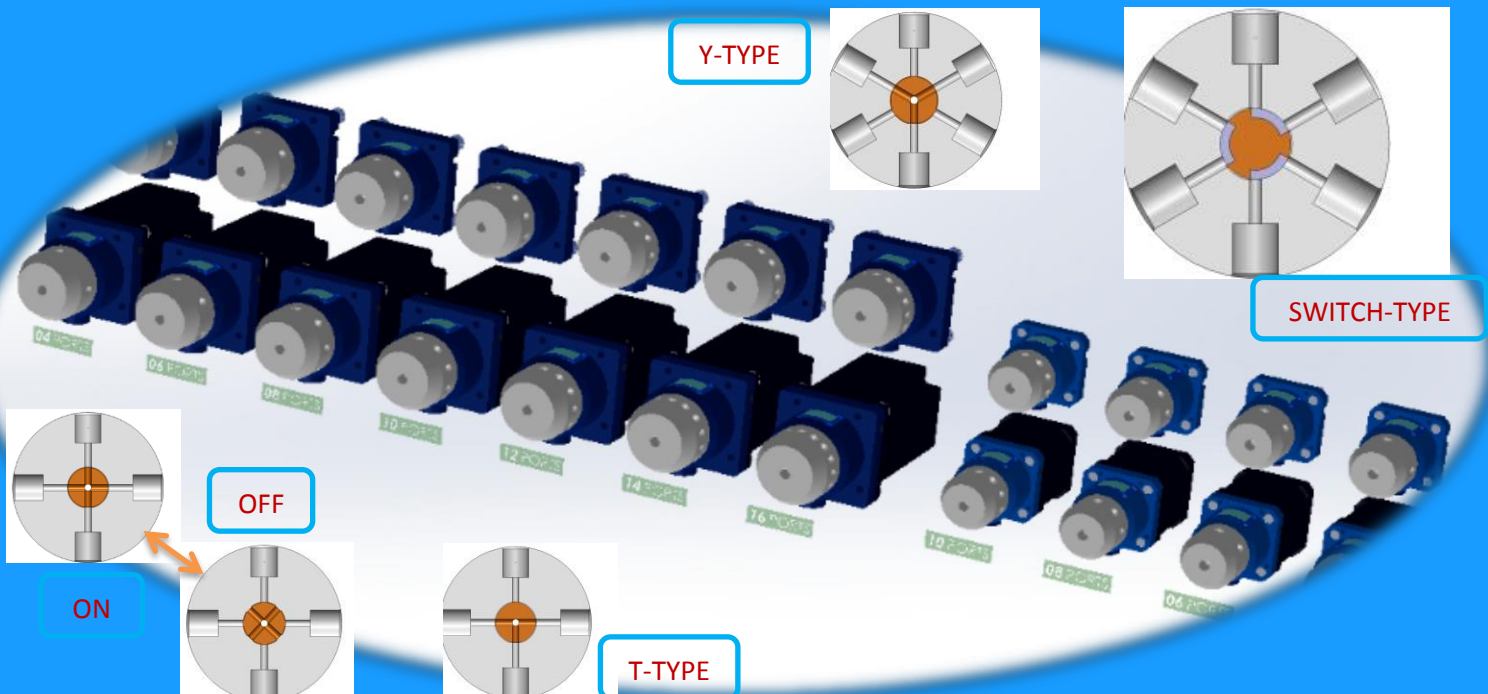
10 – 30 VDC voltage working range.

Smallest internal volumes

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FHT Stepper Motor Rotary Valves are available for many flow paths applications, such as port selection valves, flow path switch valves, multi-ON/OFF valves, "Y" type, "T" type flow path valves. The FHT team is able to design special configurations to meet customer needs and will work very closely with you to find the best options for your system and device designs.

## Stepper Motor Rotary Valve Configurations



## Stepper Motor Rotary Valve Driver

FHT Stepper Motor Rotary Valves are designed for standard NEMA 17 or NEMA 23 size Motors and provide HOME and PORT signals. These valves are easily driven by the customers own controller or driver circuit. Also, customers are able to find standard controllers from many different manufacturers who design and manufacture controllers to drive these NEMA 17 and NEMA 23 Stepper Motors. FHT suggests using controllers developed by Trinamic ([www.trinamic.com](http://www.trinamic.com)) or Lin Engineering ([www.linengineering.com](http://www.linengineering.com)). The FHT engineering team will fully support customers to select right controllers and programs to run these stepper motor rotary valves properly.

