

TitanHT™

HT650-100-4

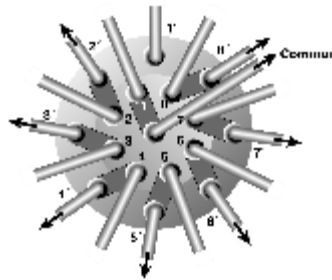
8-Position, 17-Port

Description

The HT650-100-4 is a PEEK 8-position, 17-port motorized stream selector with a circuit board. This board is referred to as the Motor Driver/Valve Controller Board and is programmed for 4-line BCD control. There are 7 positions off-line from the common (center) port. There is continuous flow going into and out of these corresponding 14 ports. The port in-line with the common port has flow going into the port and then out the common port. When the valve is switched one position, the common port will be in-line with the next port.

Flow Diagram

A schematic of the flow switching pattern of the valve is shown below. The small circles represent the ports in the valve stator and stator face assembly. The connecting passages in the rotor seal are shown as oblong shapes. Port 1 is shown in-line with the common port.



Specifications

Liquid Contacts: PEEK, Kel-F, and UHMWPE

Port Size: Accepts 1/4-28 male threaded fittings.

Flow Passage Diameters: 1.5-mm (.060-inch).

Volume in Flow Passages: Stator- (includes stator face assembly)-23.4-μL/hole (center port), 27.8-μL/hole (90° port), 24.9-μL/hole (35° port)

Rotor Seal –10.1-μL (center groove), 8.4-μL (outside grooves)

Maximum Pressure: 0.69 MPa, 6.9 bar, 100psi.

Motor: Power train design includes a stepper motor and planetary gearing system.

Motor Power Requirements: 24-35 VDC at 2.0 amps.

Motor Position Sensors: Optoelectric position sensors with encoder wheels.

NOTE: Shipping, storing or operating this valve below 0°C with water in the fluid passages may cause failure of the sealing surfaces.

Dimensional Drawings on page 2

Dimensions are in inches (millimeters)

