

TitanHT™

HT715-221

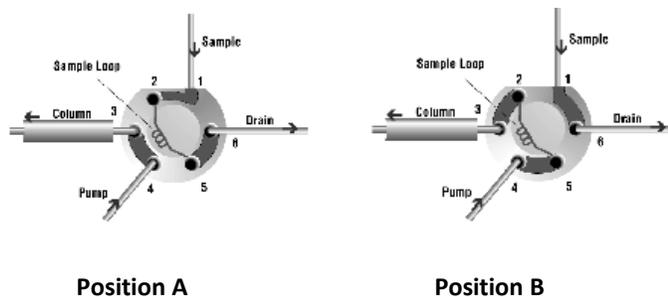
2-Position, 6-Port, Vertical Port

Description

The HT715-221 is a SupraLife™ 2-position, 6-port motorized vertical port switching valve with Rheodyne's® unique MBB® "Make-Before-Break" architecture. The MBB design insures that flow is not interrupted when the injector is switched between LOAD and INJECT when a loop is installed between ports 2 and 5.

Flow Diagram

The flow switching pattern of the valve is shown below. The dark circles represent the ports in the valve stator. The dark slots represent the connecting passages in the rotor seal. Please note that this is a representation of the flow path and may not show the true position of the ports and grooves.



Position A

Position B

Specifications

Liquid Contacts: SupraLife™: coated stainless steel and a advanced polyimide based polymer, RPC-13, rotor seal

Connections: accepts 10-32 male threaded fittings

Flow Passage Diameters: **Stator:** 0.28-mm (0.011"), **Rotor Seal:** 0.30 mm (0.012")

Volume in Flow Passages: **Stator:** 0.12 µL/hole, 0.23 µL for vertical port **Rotor Seal:** 0.09 uL/groove

Port to Port Volume: 340nL (448nL with vertical port)

Maximum Pressure: 15,000 psi

Position Sensors: Optoelectric position sensors with encoder wheels

RoHS-Compliant: Yes

Electrical: Consult factory. Position A (Load with loop installed) corresponds to encoder Position 6 and Position B corresponds to encoder Position 1 (disregard if using Rheodyne PCB and level logic command mode).

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

Dimensional Drawing

Dimensions are in inches/millimeters

