

EZ450-000

TitanEZ™

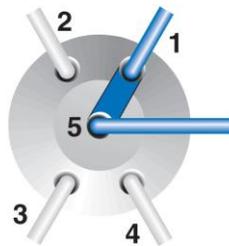
4-Position, 5-Port, Ceramic on Ceramic

Description

The EZ450-000 is a 4-Position, 5-Port ceramic-on-ceramic motorized valve. The valve has a small footprint and is capable of millions of actuations due to the ceramic-on-ceramic dynamic surfaces.

Flow Diagram

The flow switching pattern is shown below. Please note that this is a representation of the flow path and may not show the true position of the ports and grooves.



Specifications

Liquid Contacts: Coated ceramic.

Flow Passage Diameters: *Ceramic Stator Face*- 0.060" (1.52mm); *Ceramic Rotor Seal*- 0.060" (1.52mm)

Internal Volume: 24µL

Maximum Pressure: 102psi (7.0 bar)

Motor: 12 ohm, 7.5 degree stepper motor

Motor Power Requirements: Consult factory

Motor Position Sensors: Optoelectric position sensors with fixed 8 position encoder wheels

Gear Reduction: Dual

RoHS-Compliant: Yes

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

Encoder Information

This 4 position valve uses an 8 position encoder, only the odd BCD codes are used.

BCD Code	Valve Position
1	1
3	2
5	3
7	4

Note: For information on developing your own PCB Driver please refer to the Motion Profile Development Assistance Package for TitazEZ, Rheodyne® document number 2321808. For information regarding using the Rheodyne® PCB, please refer to Rheodyne® document number 2321380, Driver/Controller Development Assistance Package for Rheodyne Titan and MV Driver Boards.

Dimensional Drawings

Dimensions are in inches [millimeters]

