

EZ450-900

TitanEZ™

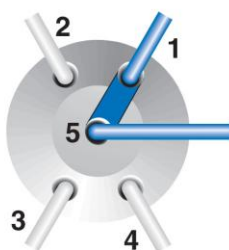
4-Position, 5-Port, Ceramic on Ceramic
w/PEEK Stator

Description

The EZ450-900 is a 4-Position, 5-Port ceramic-on-ceramic motorized valve. The valve has a PEEK stator with a Viton® gasket that insures a leak free seal between the PEEK and ceramic surfaces. 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, PEEK, and Viton

Connections: Accepts ¼-28 male threaded fittings

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

Internal Volume: 54.7µL

Maximum Pressure: 102psi (7bar)

Motor: Consult factory

Motor Power Requirements: 24VDC ± 5% at .59 Amp max

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]

