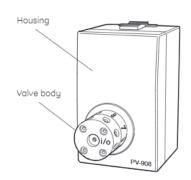
6 Reference information

Description

The valve consists of two main parts:

- · Housing which encloses the motor and electronics.
- Valve body with a rotating 360° central core.



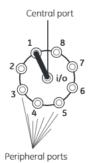
The main difference between the IV-908 and PV-908 is the diameter of the flow channels and the maximum pressure ratings. PV-908 has 0.8 mm channels while IV-908 has 1.2 mm channels which allow higher flow rates at lower back pressure.

As the channel plate is turned by the motor, the central port on the front is connected to one of the peripheral ports 1-8, allowing a clear liquid path.

Valve switching is controlled from UNICORN by reading the actual position of the channel plate.

The material used in the switching parts ensures both long mechanical and chemical lifetime.

The valve housing contains no user replaceable items.



Technical specifications

Operating data

Max Flow rate

100 ml/min IV-908 PV-908 100 ml/min

Max Pressure

IV-908 2 MPa (20 bar, 290 psi) PV-908 25 MPa (250 bar, 3600 psi)

Back pressure

< 3 kPa at 100 ml/min with water IV-908 PV-908 < 40 kPa at 100 ml/min with water

Leakaae

IV-908 < 0.1 µl/min at 2 MPa < 0.1 µl/min at 25 MPa PV-908

pH stability range 1-13, 1-14 (<1 day exposure)

Viscositu Max. 5 cP

Switch time <260 ms between two adjacent positions

Operating life time >50 000 cycles, two adjacent positions

+4 to +40 °C Environment

20-95% relative humidity 84-106 kPa (840-1060 mbar)

atmospheric pressure

Physical data

Internal volume, in/out to port

IV-908 26 µl PV-908 7 µl

Flow channel diameter

IV-908 1.2 mm PV-908 0.8 mm

Valve principle Motor controlled valve

Functions Switching 8-way, 8 positions controlled from UNICORN

Degree of protection IP 43

Wetted materials Channel and

Distribution plates PEEK (poluetheretherketone)

Chemical resistance The wetted parts are resistant to organic solvents and

salt buffers commonly used in chromatography of biomolecules, except 100% ethylacetate, 100% hexane

and 100% tetrahydrofuran (THF)

Power requirement 32 V DC ±10% from the system pump

Power consumption Up to 9 W

UniNet 2 address 0-9

Inlet and outlet tubing

IV-908 PV-908

5/16"-24 UNF 2B for tubing with 3/16" outer diameter UNF 10-32 2B "Fingertights" for capillary tubing 1/16"

outer diameter

Dimensions,

 $H \times W \times D$ 135 × 80 × 120 mm

Weight 1.2 kg

EMC Standards This product meets the requirement of the EMC Directive

> 89/336/EEC through the harmonized standards EN 50081-1 (emission) and EN 50082-1 (immunity)

Note: The declaration of conformity is valid for the

instrument when it is

· used in laboratory locations

· used in the same state as it was delivered from GE Healthcare except for alterations described

in the user manual

 connected to other CF labelled GF Healthcare instruments or other products as recommended.