

Solenoid Valve PSV-50

Instructions

Solenoid Valve PSV-50 (Code No. 19-1994-01) is a 24 V DC 3-port/2-way valve for use in chromatography systems. The valve can be controlled from Gradient Programmer GP-250 Plus, Liquid Chromatography Controller LCC-501 Plus, GradiFrac or Fraction Collector FRAC-100 or FRAC-200.

The valve may be used as a switching valve for gradient formation or as a sample application valve for switching between sample and buffer solutions.

Unpacking

Check the contents of the package against the packing list. Contact your Cytiva representative if components are missing or damaged.

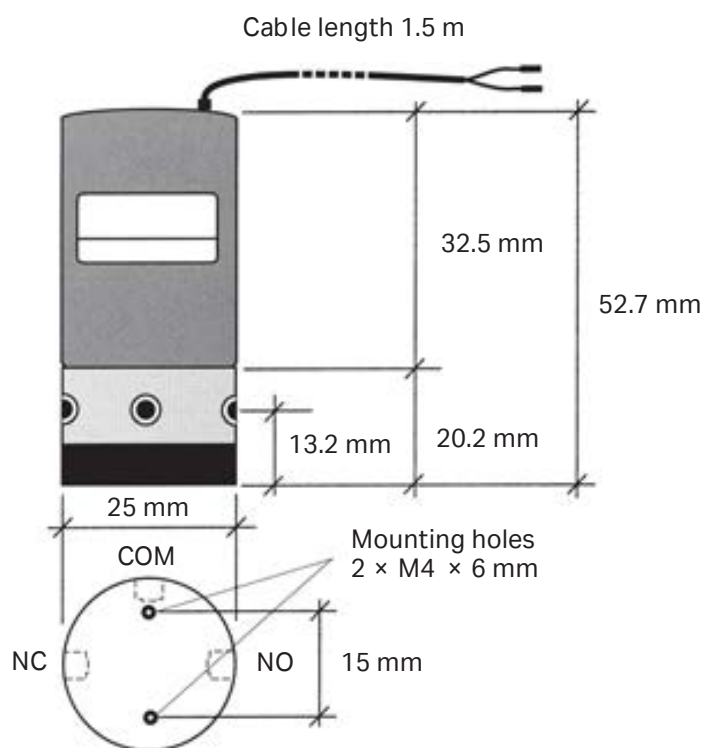


Fig 1. Solenoid Valve PSV-50 dimensions.

Fitting to mounting brackets

A rubber Holder PSV-50 for the valve can be seated in a 15 mm diameter circular hole in sheet metal or plastic. There are also two threaded holes in the base of the valve (for M4 x 6.0 mm screws) for alternative mounting. Valve dimensions are shown in the Figure above.

Tubing connections

Solenoid Valve PSV-50 has one permanently open port marked COM and two ports marked NC (normal closed) and NO (normal open) (see the Figure below). Port COM may be used as an inlet or outlet port as required. The ports are threaded for M6 tubing connectors (FPLC).

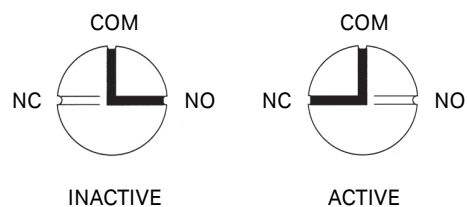


Fig 2. Flow connections i Solenoid Valve PSV-50 in inactive states

Electrical connections

A 3-pole female connector is available for connecting the valve to the SWITCH VALVE contact on Gradient Programmer GP-250 and Liquid chromatography controller LCC-501. The valve cable leads should be connected to the outer contacts on the connector. The central contact is not used.

Ordering information

Designation	Code No.
Solenoid Valve PSV-50	19-1994-01

Accessories

Designation	Code No.
Holder PSV-50	19-1992-55
Tubing connector M6 (FPLC), for 1.2 mm I.D. tubing	19-7476-01
Tubing connector M6 (FPLC), for 1.9 mm I.D. tubing	18-4652-01

Specifications

Power supply	24 V DC
Power consumption	1.9 W
Duty cycle	Continuous operation
Response time	
inactive - active	15–20 msec
active - inactive	5–10 msec
Operating pressure	0–0.2 MPa (29 psi)
Operating temperature	4–40 °C

Wetted materials	Fluoroplastic (PTFE, ECTFE)
Tubing connector	M6 (FPLC)
Internal volumes	
IN port	70 µl
NO and NC ports	90 µl
Cv factor	0.065
Operating life	$> 5 \times 10^6$ cycles
Weight	125 g
Dimensions	see Fig. 1, on page 1

cytiva.com

Cytiva and the Drop logo are trademarks of Global Life Sciences IP Holdco LLC or an affiliate.

All other third-party trademarks are the property of their respective owners.

© 2020–2021 Cytiva

All goods and services are sold subject to the terms and conditions of sale of the supplying company operating within the Cytiva business. A copy of those terms and conditions is available on request. Contact your local Cytiva representative for the most current information.

For local office contact information, visit cytiva.com/contact

19199405 AK V:5 06/2021

