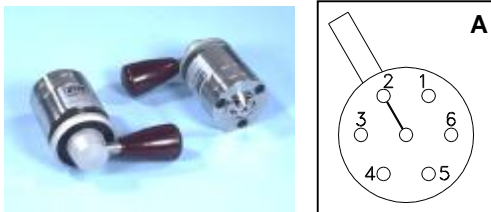


## SWITCHING AND INJECTION VALVES

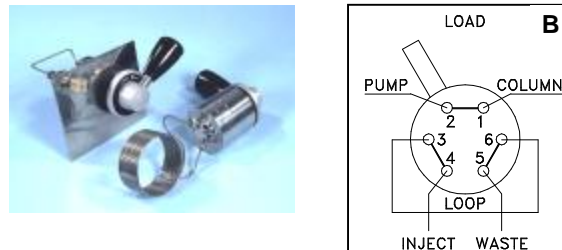
### Switching valve A



It is designed for switching hydraulic paths for pressures up to 35 MPa, e.g. for switching columns without stopping the flow of a mobile phase (without stopping a pump).

The valve is controlled manually by means of a handle. According to the type of connection the valve may serve either for switching of up to six inlets to a single outlet, or for switching of up to six outlets to a single inlet. In the valves, which allow for switching to more positions, the individual positions of the handle are fixed by a ball, which is pressed to grooves in the rotor.

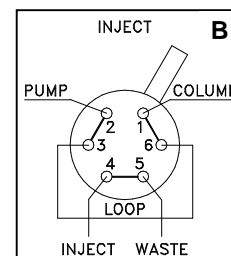
### Preparative injection valve B



It makes possible injection of a larger amount of a sample (of up to millilitres using an injection loop) to an uninterrupted flow of a mobile phase, typically in preparative chromatography. A maximum pressure is 35 MPa.

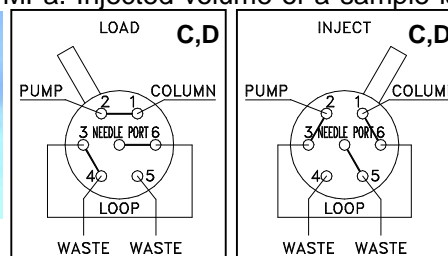
An injection system (LUER) for the valve B and its holder is optional.

The valve B may also be used as a switching valve 3 x 2. The valve is controlled manually by means of a handle.



### Analytical injection loop valve type C and D

It may be used especially in HPLC to pressures up to 35 MPa. Injected volume of a sample is given by an exchangeable loop used (3 µl to 1 ml) fastened to the back of the valve. The loop should be filled using a Hamilton syringe with a needle for HPLC, or a LUER syringe with a needle supplied as an accessory.



Injection valve type D is a modification of the valve type C and has an additional switch, which makes possible to start an integrator, LCD 2084 detector software and LCP 4100 pump software, simultaneously with switching the valve to the INJECT position.

<b>Specification:</b>	Maximum operating pressure .....	35 MPa
	Control .....	manual
	Dimensions .....	φ 41mm/72mm
	Material .....	stainless steel, Vespel
	Capillary connection .....	UNF 10 standard thread