Pressure valves





Shut-off valves type LV and ALZ

These shut-off valves automatically switch the pump delivery flow into idle circulation as soon as the adjusted pressure is achieved. There is a check valve upstream of the consumer port A preventing any return flow via the port R . The idle circulation switching position is interrupted as soon as the pressure in the consumer port drops approx. 13% under the set pressure figure. The self controlled valves type LV do not require any flow pulsation whereas type ALZ is a piloting valve. Both types are mostly used as accumulator charge valves, and should be installed as near to the pump as possible.

Features and benefits:

- Various means of adjustment
- Various additional functions

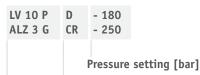
Intended applications:

- General hydraulics
- Test benches



Nomen- clature:	Shut-off valve (idle circulation valve, direct controlled or piloted)
Design:	Individual valve for pipe connection Individual valve Manifold mounting
Adjustment:	Tool adjustable manually adjustable
p _{max} :	350 bar
Q _{max} :	120 lpm

Design and order coding example



Pressure range

- Tool adjustable (-)
- Manually adjustable (R)

Basic type, size, design

Type LV, size 10, 20, 25

- Pipe connection (-)
- Manifold mounting (P)
- Design with low switching hysteresis (type LV 25)

Type ALZ, size 3 to 5

- Pipe connection (G)
- Manifold mounting (P)
- Arbitrary idle pump circulation via 2/2-way solenoid valve

Function

LV, ALZ

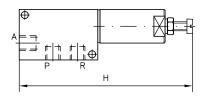
For pipe connection:



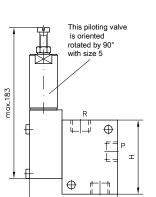
Manifold mounting valve:

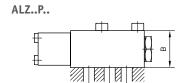


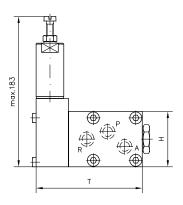












	Control	Q _{max} [lpm]	Pressure range: p _{max} [bar]	Ports (BSPP) ¹⁾	Dimensions [mm]			m [kg]
					Н	В	T	
LV 10	Direct	12	F: 60 E: 140 D: 240 C: 350	G 1/4	155	45	32	0.9
LV 20, LV 25		25	F: 80 E: 140 D: 220 C: 350	G 3/8	205	50	32	1.2
ALZ 3 G	Piloted	50	F: 60	G 1/2	80	40	99	2.0
ALZ 4 G		80	E: 140 D: 240 C: 350	G 3/4	94	40	109	2.4
ALZ 5 G		120		G 1	105	63	135	4.3
ALZ 4 P		80		G 3/4	60	40	119	2.1
ALZ 5 P		120		G 1	80	40	133	4.3

1) For pipe connection versions only

Associated technical data sheets:

- Shut-off valves type LV: <u>D 7529</u>
- Shut-off valves type ALZ: <u>D 6170-ALZ</u>
- Shut-off valves type AL: <u>D 6170</u>

Similar products:

- Release valves type AE: <u>D 6170</u>
- Connection blocks type AL: <u>D 6905 A/1</u>