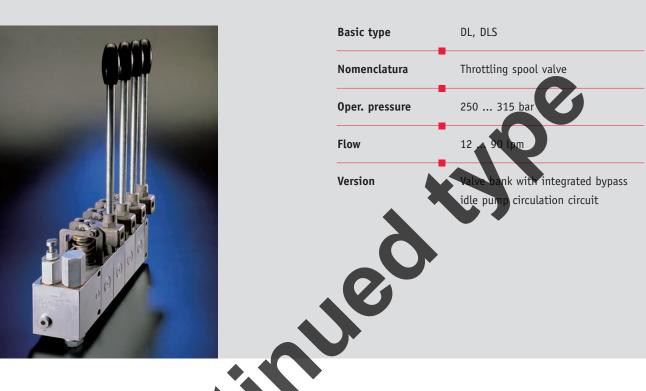


Directional spool valves type DL and DLS



The manually actuated directional spool values type DL control the direction of movement of single- and double acting consumers. The speed is control via variation of the throttling degree for the pump circulation (bypass circulation). Areas of application are simple control of lifting devices and industrial trucks, e.g. fork-lifts, cranes.

The valves are available either with manual or pneumatic actuation. A shielded version of the spring centered manual actuation which protects it during rough operation, is also available Type DLS is primarily used on industrial trucks.



- Favorable performance/price ratio
- Compact design
- Maximum operation pressure up to 315 bar
- 4 sizes available
- Maximum flow up to 90 lpm
- Valve banks consisting of up to 10 sections

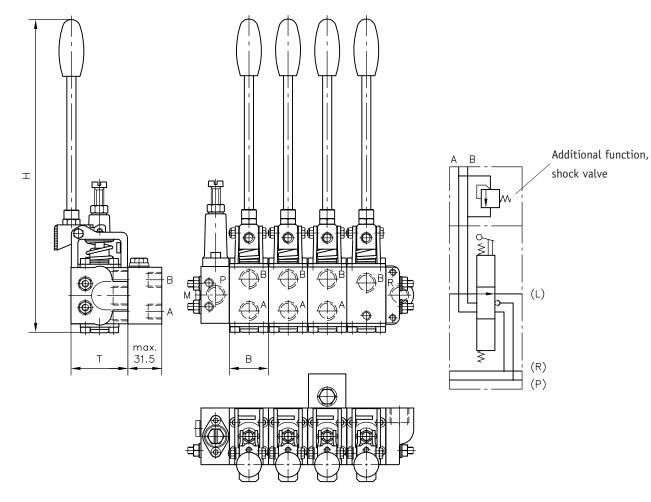
- Intermediate plates and add-on blocks with additional functions
- Various additional functions
- 3/3- and 4/3- way directional spool valve, various flow pattern
- Special variants on request

Technical data

Basic type	DL1 DLS1	DL2 DLS2	DL3 DLS3	DL4	G, B	D	E	N	R	A	Р
Oper. pressure (bar)	315	315	250	250	Ţ						
Flow (lpm)	12 16	2030	30 60	90			┝ ┼ ┝ ┼ ┝	┝┵ <u></u> ┬┊┙┼ ┥			

Symbols

Type DL 21-2

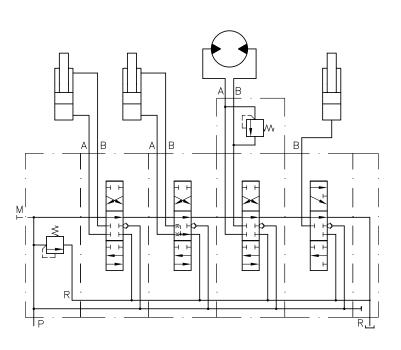


Basic type	DL1 DLS1	DL2 DLS2	DL3 DLS3	DL4
н		approx. 278		
В	31.5	34.5	39.5	39.5
т	45	50	60	70

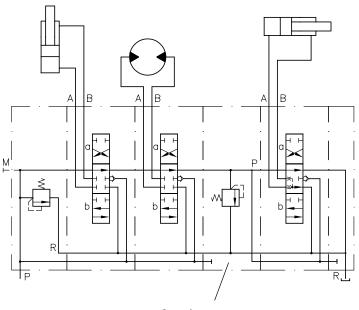
All dimensions in mm, subject to change without notice !

Example circuit

Order example for this circuit **DL21-2-GDG71A-B/E1-2-180**



Order example for this circuit **DL31-3-GGX1D-B/E1-2-210**



Second pressure stage

Additional information related to this topic

Product overview	K 177
 Directional spool valve banks type DL and DLS 	D 7260
• Directional spool valve banks especially for stackers	
type DLSR (size 2 and 3)	D 7260 SR
• Prop. directional spool valve type PSL and PSV (size 3)	D 7700-3
• Prop. directional spool valve type PSL and PSV (size 5)	D 7700-5
• Prop. directional spool valve type PSLF and PSVF	D 7700 F
• Over-center valves type LHK	D 7100
• Over-center valves type LHT	D 7918
 Pressure limiting and sequence valves 	
type MV, DMV, SVC etc.	D 7000/1
• Sequence valves type VR	D 7340
• Drop-rate braking valves type SB and SQ	D 6920
• Drop-rate braking valves type DSJ	D 7825



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