

BENCOR (Pty) Ltd.

Directional spool valves



Manually actuated directional spool valves type DL

The directional spool valve banks type DL are used in mobile or stationary hydraulic systems with single and double acting consumers enabling flow control by means of manually controlled throttling.

This throttling process means closing of the by-pass gallery for idle pump circulation and simultaneously opening of the consumer duct. The consumer will start moving as soon as the required pressure level for the consumer is achieved by throttling the by-pass.

The directional spool valve versions type DLS are intended for industrial trucks (stackers), featuring a connection block incorporating the first valve section (commonly used for the lifting cylinder). The connection block may be equipped optionally with a priority flow divider.

The other valve sections may feature many other options e.g. shock valves etc. widening the field of application even further.



Nomenclature: Throttling directional spool valve

Design: Valve bank, featuring integrated by-pass idle pump circulation

Actuation: Manual

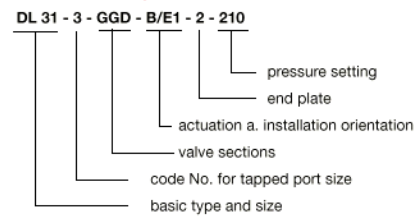
P_{max}: 250 ... 315 bar

Q_{max}: 12 ... 90 l/min

Basic types and general parameters

| Basic type and size | Flow Q _{max} (l/min) | Oper. pressure P _{max} (bar) | Tapped ports | | |
|---------------------|-------------------------------|---------------------------------------|--------------|----------------|----------------|
| | | | code No. | A, B | H, P, R |
| DL 1 | 12 ... 16 | 315 | 1 | G 1/4 | G 1/4 |
| DL 2 | 20 ... 30 | 315 | 1 2 | G 1/4 G 3/8 | G 3/8 G 3/8 |
| DL 3 | 30 ... 60 | 250 | 2 3 | G 3/8 G 1/2 | G 1/2 G 1/2 |
| DL 4 | 90 | 250 | 3 | G 1/2 | G 3/4 |

Valve bank coding



Additional versions (Basic types)

- Directional spool valve type DLS for industrial trucks (e.g. stackers) (see also "Further informations")

- Directional spool valve type DLSR for variable displacement pumps (see also "Further informations")