

Sectional Directional Control Valve

This sectional directional control valve is available with 1 to 8 sections. The hydraulic valve is designed to be compact, which simplifies piping design and installation.



Overview

Versatile Sectional Control Solutions

The DL20 sectional directional control valve is a modular hydraulic component designed for precise fluid management in demanding industrial and mobile applications. Featuring a compact design that simplifies piping and installation, it offers configurations from 1 to 8 sections to meet specific machinery requirements. With its smoothly polished spool surfaces and integrated safety valves, it ensures reliable performance and easy maintenance for professional hydraulic systems.

Performance Metrics

Key Performance Metrics

25 MPa

Rated Pressure

160 L/min

Rated Flow

350 L/min

Max Flow

170 N

Actuating Force

Technical Specifications

Parameters

Rated pressure (MPa)	25
Rated flow (L/min)	160 (maximum flow: 350L/min)
Pressure range of main overflow valve (MPa)	10-25
Pressure range of secondary overflow valve (MPa)	15-31.5
Actuating force (N)	170
Hydraulic oil	Mineral oil (HL, HLP) in accordance with DIN 51 524
Fluid temperature range (°C)	- 20-100
Viscosity range (mm ² /s)	10-380
Fluid cleanliness	Not lower than GB/T 14039-93 level 19/16 or NAS 1638 level 10
Weight (kg)	DL20-02: 21.5 DL20Y-03: 28

Detailed performance parameters including rated pressure of 25 MPa and flow rates up to 350 L/min.

Pressure Ranges

Component	Pressure Range (MPa)
Main Overflow Valve	10 - 25
Secondary Overflow Valve	15 - 31.5

Fluid & Operating Conditions

- Hydraulic Oil: Mineral oil (HL, HLP) per DIN 51 524
- Fluid Temperature: -20 to 100 °C
- Viscosity Range: 10 - 380 mm²/s
- Cleanliness: GB/T 14039-93 level 19/16 or NAS 1638 level 10

Design Features

Configuration Options

- Sections: 1 to 8 sections available
- Actuating Methods: Mechanical or Hydraulic operation
- Loop Types: Parallel, Series-Parallel, or Dual circuit

Integrated Safety Components

Safety Valve, Overload Valve, Charge Valve, Check Valve

Applications

Applications

- Small sized loader, excavator
- Forklift
- Agricultural tractor auxiliary function
- Drilling rig
- Hoisting machinery
- Material handling machinery

The DL20 valve is ideal for small loaders, excavators, forklifts, and diverse material handling machinery.

Target Applications

Loaders • Excavators • Forklifts • Tractors • Drilling Rigs • Hoisting Machinery • Material Handling

Physical Properties

Model Weights

Model	Weight (kg)
DL20-02	21.5
DL20Y-03	28