

Sectional Directional Hydraulic Control Valve



This sectional directional control valve provides precise control of fluid direction in hydraulic systems. Its modular construction allows easy customization and expansion for various hydraulic functions.

Overview

Versatile Sectional Hydraulic Control

The DL20CD is a high-performance sectional directional control valve designed for precise fluid management in demanding hydraulic systems. Its modular construction allows for multiple sections and a wide choice of spool functions, making it highly customizable for diverse industrial and mobile applications. Engineered with dual inlets and a safety-focused solenoid valve integration, it ensures optimal performance while maintaining strict pressure control.

Performance Metrics

Key Performance Metrics

160 L/min

Rated Flow

25 MPa

Rated Pressure

170 N

Actuating Force

Technical Specifications

Parameters

Rated pressure (MPa)	25
Rated flow (L/min)	160 (maximum flow: 200 L/min)
Pressure range of main overflow valve (MPa)	10-25
Pressure range of secondary overflow valve (MPa)	15-31.5
Solenoid valve working volatage (electric current)	DC24V (electric current: 0.7A)
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

Detailed technical parameters including rated pressure, flow rates, and solenoid specifications.

Flow & Pressure Details

Parameter	Value
Maximum Flow Rate	200 L/min
Main Overflow Valve Pressure Range	10 - 25 MPa
Secondary Overflow Valve Pressure Range	15 - 31.5 MPa
Solenoid Working Voltage	DC24V
Solenoid Electric Current	0.7A

Operating Conditions

Fluid & Temperature Requirements

Property	Specification
Hydraulic Oil Type	Mineral oil (HL, HLP) per DIN 51 524
Fluid Temperature Range	-20 to 100 °C
Viscosity Range	10 - 380 mm ² /s

Design Features

Structural Features

- Sectional design with multiple available sections
- Wide choice of spool functions
- Dual inlet design for improved performance
- Optimized piping layout for reduced pressure loss
- Integrated safety, overload, charge, and check valves
- Parallel and series loop circuit types supported

Applications

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- Excavator/loader
- Forklift
- Agricultural tractor auxiliary function
- Drilling rig
- Hoisting machinery
- Material handling machinery

The DL20CD valve is ideal for heavy machinery including excavators, forklifts, and agricultural equipment.

Supported Machinery

Excavator, Loader, Forklift, Agricultural Tractor, Drilling Rig, Hoisting Machinery, Material Handling