

Sectional Directional Hydraulic Control Valve



This sectional directional control valve manages fluid flow in hydraulic systems. Its modular design simplifies installation and offers multiple spool options for precise control.

Overview

Versatile Sectional Control Solution

The DL25Y is a high-performance sectional directional control valve designed for precise fluid management in demanding hydraulic systems. Its modular construction allows for configurations ranging from 1 to 8 sections, providing exceptional flexibility for mobile and industrial applications. Engineered for durability, it features smoothly polished spools and integrated safety valves to ensure reliable performance and simplified maintenance in the field.

Performance Metrics

Key Performance Metrics

20 MPa

Rated Pressure

200 L/min

Rated Flow

190 N

Actuating Force

58.3 kg

Unit Weight

Technical Specifications

Parameters

| | |
|--|---|
| Rated pressure (MPa) | 20 |
| Rated flow (L/min) | 200 (maximum flow: 200 L/min) |
| Pressure range of main overflow valve (MPa) | 10-25 |
| Pressure range of secondary overflow valve (MPa) | 15-31.5 |
| Actuating force (N) | 190 |
| 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 14039-2002 level 19/16 or NAS 1638 level 10 |
| Weight (kg) | 58.3 |

Detailed technical specifications including pressure ratings, flow rates, and fluid requirements.

Pressure & Flow Settings

| Parameter | Value |
|--------------------------------|-------------|
| Main Overflow Valve Range | 10-25 MPa |
| Secondary Overflow Valve Range | 15-31.5 MPa |
| Maximum Flow Rate | 200 L/min |

Fluid Requirements

Hydraulic Fluid Requirements

| Property | Requirement |
|----------------------|--------------------------------------|
| Oil Type | Mineral oil (HL, HLP) DIN 51 524 |
| Temperature Range | -20 to 100 °C |
| Viscosity Range | 10-380 mm ² /s |
| Cleanliness Standard | GB/T 14039-2002 19/16 or NAS 1638 10 |

Design Features

Construction & Design

- Sectional design available from 1 to 8 sections
- Compact footprint for simplified piping and installation
- Smoothly polished spool surfaces for precise flow control
- Integrated safety, overload, charge, and check valves
- Parallel, series-parallel, or dual circuit loop types

Operation

Actuation Methods

Mechanically Operated, Hydraulically Operated

Applications

Applications

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

The DL25Y is widely used in construction, agriculture, and material handling machinery including loaders and forklifts.

Recommended Applications

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