

# 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 <sup>2</sup> /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 <sup>2</sup> /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