

Sectional Directional Control Valve

This sectional directional control valve offers versatile spool functions and supports 1 to 8 sections. Designed with load-sensing control, it provides pressure-compensated flow regardless of load pressure, saving energy.



Overview

High-Performance Sectional Control

The DLV20 is a versatile sectional directional control valve designed for precise hydraulic management in heavy-duty machinery. Featuring a modular design that supports 1 to 8 sections, it utilizes load-sensing technology to provide consistent flow regardless of load pressure changes, significantly improving energy efficiency. This valve is engineered for durability and low leakage, making it an ideal choice for demanding applications such as excavators, loaders, and drilling rigs.

Performance Metrics

Key Performance Metrics

160 L/min

Rated Flow

25 MPa

Rated Pressure

200 L/min

Max Flow

Technical Specifications

Applications

- Small sized excavator
- Excavator/loader
- Drilling rig

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
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)	70

Detailed technical parameters including pressure ranges, flow rates, and fluid requirements for the DLV20 series.

Main Overflow Valve Pressure Range	10-25 MPa
Secondary Overflow Valve Pressure Range	15-31.5 MPa
Loop Type	Parallel circuit
Available Sections	1 to 8 sections

Fluid Requirements

Hydraulic Oil Compatibility	Mineral oil (HL, HLP) in accordance with DIN 51 524
Fluid Temperature Range	-20 to 100 °C
Viscosity Range	10 mm ² /s
Fluid Cleanliness	GB/T 14039-2002 19/16, NAS 1638 Level 10

Applications

Target Machinery

Small Sized Excavator • Excavator/Loader • Drilling Rig • Concrete Machinery • Truck Mixers

Physical Properties

Weight	70 kg
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Features

Integrated Safety Components

- Safety Valve
- Overload Valve
- Charge Valve
- Check Valve

Design Advantages

- Load sensing control for energy savings
- Pressure-compensated flow control
- Smoothly polished spool surfaces for low leakage
- Optimized piping layout for low pressure drop