

Sectional Directional Control Valve

Sectional control valves divert or stop fluid flow in hydraulic systems. The control valve is designed to lock flow in the cylinder and offer speed control.



Overview

High-Performance Sectional Control

The CDV15G is a robust sectional directional control valve engineered for precision in hydraulic systems. It features an integrated inlet section and load-sensing control to ensure consistent flow regardless of load pressure. Designed for high operational safety, it incorporates a solenoid valve for downstream pressure management and specialized flow locking for cylinders.

Performance Metrics

Key Performance Metrics

25 MPa

Rated Pressure

75 L/min

Rated Flow

58.3 kg

Unit Weight

Technical Specifications

Applications

- Forklift (1-3 tons)
- Material handling machinery

Parameters

Rated pressure (MPa)	25
Rated flow (L/min)	75 (maximum flow: 95 L/min)
Pressure range of main overflow valve (MPa)	10-25
Pressure range of secondary overflow valve (MPa)	15-31.5
Actuating force (N)	120
Solenoid valve working voltage	DC12V
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

Comprehensive technical specifications including pressure ranges, flow rates, and fluid requirements for the CDV15G valve.

Flow & Pressure Details

Parameter	Value
Maximum Flow	95 L/min
Main Overflow Valve Pressure Range	10-25 MPa
Secondary Overflow Valve Pressure Range	15-31.5 MPa
Actuating Force	120 N

Electrical & Operation

Solenoid Working Voltage	DC12V
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Fluid Requirements

Hydraulic Fluid Specifications

- Oil Type: Mineral oil (HL, HLP) per DIN 51 524
- Temperature Range: -20 to 100°C
- Viscosity Range: 10-380 mm²/s
- Cleanliness: GB/T 14039-2002 level 19/16 or NAS 1638 level 10

Applications

Recommended Applications

Forklift (1-3 tons), Material Handling Machinery, Construction Machinery, Mobile Hydraulics

Features

Core Functionalities

- Load sensing control for load-independent flow
- Integrated inlet section for compact design
- Solenoid valve for downstream pressure control
- Cylinder flow locking and speed control
- Modular design for easy maintenance