

Monoblock Directional Control Valve

This directional control valve features a maximum operating pressure of 25 bar, allowing for high flow rates. The monoblock control valve is equipped with an overload valve and charging valve and is suitable for a wide range of applications.



General Overview

High-Performance Hydraulic Control

This monoblock directional control valve is engineered for precise hydraulic control in demanding environments. Featuring a robust construction and smoothly polished spool surfaces, it ensures reliable operation and responsive flow control. Designed for versatility, this unit is suitable for a wide range of mobile and industrial hydraulic applications.

Technical Parameters

Parameters

Rated pressure (MPa)	25
Rated flow (L/min)	100
Pressure range of main overflow valve (MPa)	10-25
Pressure range of secondary overflow valve (MPa)	15-31.5
Charging valve opening pressure (MPa)	≥0.15
Solenoid valve	Voltage: 12VDC, electric current: 1.5A (max)
Hydraulic oil	Mineral oil (HL, HLP) in accordance with DIN 51 524
Fluid temperature range (°C)	- 20-100
Fluid cleanliness	Not lower than GB/T 14039-93 level 19/16 or NAS 1638 level 10
Weight (kg)	20

Detailed technical specifications including pressure, flow, and electrical requirements.

Solenoid Specifications

12 VDC
Voltage

1.5 A
Max Current

Fluid Requirements

- Mineral oil (HL, HLP) in accordance with DIN 51 524
- Fluid temperature range: -20 to 100°C
- Cleanliness: GB/T 14039-93 level 19/16 or NAS 1638 level 10

Rated Pressure	25 MPa
Rated Flow	100 L/min
Main Overflow Valve Pressure Range	10-25 MPa
Secondary Overflow Valve Pressure Range	15-31.5 MPa
Charging Valve Opening Pressure	≥0.15 MPa
Weight	20 kg

Design Features

Key Features	Monoblock Construction, Polished Spool Surfaces, Overload Valve Equipped, Charging Valve Equipped, Hydraulic Pilot-Operated, Four Positions, Spring Return
Loop Type	Serial-parallel connection

Applications

● Applications

- Skid steer loader
- Small sized loader
- Tractor auxiliary function
- Multi-purpose engineer vehicle
- Material handling machinery

Versatile compatibility with various mobile equipment and industrial machinery.

Suitable Applications

- Skid steer loaders
- Small sized loaders
- Tractor auxiliary functions
- Multi-purpose engineer vehicles
- Material handling machinery