

Monoblock Directional Control Valve

This monoblock directional control valve can be extended to multiple sections and offers a wide choice of spool functions. The hydraulic pilot-operated valve has four positions to allow cylinder float.



Product Overview

High-Performance Monoblock Directional Control Valve

This monoblock directional control valve is engineered for demanding hydraulic systems, offering a robust 2-section design that can be expanded with sandwich plate valves. It features advanced load-sensing capabilities and regenerative flow technology to optimize energy efficiency and ensure precise fluid control. Equipped with comprehensive safety mechanisms including overload, charge, and check valves, this unit is designed for reliability, easy maintenance, and versatile performance in heavy-duty machinery.

Technical Parameters

Parameters

Rated pressure MPa	31.5
Rated flow L/min	300 (maximum flow: 350 L/min)
Pressure range of main overflow valve MPa	15-31.5
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	64

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

Performance Metrics

31.5 MPa

Rated Pressure

300 L/min

Rated Flow

350 L/min

Max Flow

64 kg

Weight

Operating Conditions

Parameter	Specification
Fluid Type	Mineral oil (HL, HLP) per DIN 51 524
Temperature Range	-20 to 100 °C
Viscosity Range	10-380 mm ² /s
Fluid Cleanliness	GB/T 14039-2002 19/16 or NAS 1638 level 10

Design Features

Valve Configuration

- Parallel connection loop type
- Spring return location mode
- Four-position hydraulic pilot-operated valve
- Expandable to multi-sections via sandwich plates

Integrated Safety Valves

Safety valve, Overload valve, Charge valve, Check valve, Anti-cavitation

Applications

● Applications

- Wheel loader
- Excavator/loader
- Bulldozer
- Telehandler
- Material handling machinery

Typical applications include wheel loaders, excavators, and material handling equipment.

Compatible Machinery

Wheel Loaders • Excavator/Loaders • Bulldozers • Telehandlers • Material Handling Machinery