

Hydraulic Priority Valve

This hydraulic priority valve supplies oil to steering and hydraulic systems using a single pump. It maintains a consistent flow to the primary circuit, regardless of input fluctuations, and bypasses excess flow.



Product Overview

High-Efficiency Priority Valve

This hydraulic priority valve is engineered to supply consistent oil flow to steering systems and primary hydraulic circuits using a single pump. It features a low pressure drop at high flow rates and supports integration with load-sensing steering units and variable pumps for optimized energy savings. Designed for demanding conditions, this valve ensures reliable operation and can be configured with auxiliary components such as relief, sequence, and diverter valves.

Technical Specifications

Applications

- Wheel loader
- Forklift
- Excavator/loader
- Agricultural machinery
- Material handling machinery
- Compactor
- Forestry machinery

Parameters

| | |
|--------------------------------------|---|
| Rated pressure (MPa) | 25 |
| Rated flow (L/min) | 160 |
| Differential control pressure (MPa) | 1 |
| 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) | 5.5 |

A high-performance hydraulic priority valve suitable for various heavy-duty machinery applications.

Key Performance Metrics

25 MPa

Rated Pressure

160 L/min

Rated Flow

1 MPa

Differential Control Pressure

5.5 Kg

Weight

Operating Parameters

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

Applications

Supported Machinery

Wheel loader, Forklift, Excavator, Agricultural machinery, Material handling, Compactor, Forestry machinery