

Hydraulic Flow Diverter Valve

This hydraulic flow diverter valve is designed for steering and hydraulic systems, diverting flow directly at a low pressure drop. It can also act as a pilot valve supply unit, which is suitable for machinery without a pilot pump, saving energy.



Overview

High-Efficiency Hydraulic Feeding Unit

This hydraulic flow diverter valve serves as an efficient feeding unit for steering and working hydraulic systems, offering a reliable substitute for traditional pilot pumps. By integrating an accumulator, it provides an instantaneous flow rate of up to 40 L/min, significantly enhancing flexibility and response compared to standard pilot pumps. Designed for robust performance, it is equipped with four solenoid valves to precisely direct oil flow through P and F ports.

Key Performance Metrics

Nominal Flow

16 L/min

Nominal Flow

40 L/min

Instantaneous Flow (with accumulator)

Technical Specifications

Applications

- Loader
- Bulldozer
- Hoisting machinery
- Agricultural machinery
- Material handling machinery

Parameters

Input nominal pressure (MPa)	20
Output nominal pressure (MPa)	3
Solenoid valve operating voltage (V)	24
Unloading pressure (MPa)	4.5
Nominal flow (L/min)	16
Hydraulic fluid	Mineral oil (HL, HLP) in accordance with DIN 51 524
Fluid temperature range (°C)	- 20-80
Viscosity range (mm ² /s)	10-380
Fluid cleanliness	Not lower than GB/T 14039-93 level 19/16 or NAS 1638 level 10
Weight (kg)	9.5

Technical overview of the feeding unit, highlighting application areas and key operational parameters.

Input Nominal Pressure	20 MPa
Output Nominal Pressure	3 MPa
Unloading Pressure	4.5 MPa
Solenoid Valve Voltage	24 V
Weight	9.5 kg

Fluid Requirements

Hydraulic Fluid	Mineral oil (HL, HLP) in accordance with DIN 51 524
Fluid Temperature Range	-20 to 80 °C
Viscosity Range	10-380 mm ² /s
Fluid Cleanliness Standards	GB/T 14039-93 level 19/16, NAS 1638 level 10

Applications

Compatible Machinery

- Loaders
- Bulldozers
- Hoisting machinery
- Agricultural machinery
- Material handling machinery