

# Hydraulic Valve Block for Construction Machinery

This hydraulic valve block is designed for construction machinery, specifically engineering drills. It controls the flow of hydraulic fluid to various components, enabling precise operation.



## Product Overview

### High-Performance Hydraulic Control

This hydraulic valve block is engineered for construction machinery, featuring a new type of accumulator that enables rapid friction clutch connection between two shafts for minimized gear shifting time. Designed for mechanical operation with low actuation force, it integrates a brake valve for enhanced safety and operational simplicity. Its robust construction ensures high reliability and stable pressure, making it an essential component for loaders and material handling equipment.

## Operational Features

### Gear Configuration

- 2 Front gears
- 1 Reverse gear
- 1 Neutral position

### Safety & Control

Reverse Alarm, Integrated Brake Valve, Optional Neutral Safety Switch, Mechanical Operation

## Technical Performance

### ● Aplicaciones

- Cargadora
- Equipo para manejo de material

### ● Parámetros

|   |   |
|---|---|
| Caudal nominal (L/min)                        | 120   |
| Presión de engranaje (MPa)                    | 1.2 ~ 1.5   |
| Diferencia de presión de cada engranaje (MPa) | ±0.1  |
| Oscilación de presión (MPa)                   | ±±0.1   |
| Fuerza de accionamiento (N)                   | ±150  |
| Aceite hidráulico                             | Aceite mineral (HL, HLP) conforme con DIN 51 524          |
| Rango de temperatura de caudal (°C)           | - 20 ~ 120  |
| Rango de viscosidad (mm <sup>2</sup> /s)      | 10 ~ 380  |
| Limpieza del fluido                           | No bajo que GB/T 14039-93 nivel 19/16 o NAS 1638 nivel 10 |
| Peso (kg)                                     | 12.5  |

Detailed technical specifications including flow rates, pressure tolerances, and fluid requirements for heavy machinery applications.

## Performance Metrics

**120 L/min**

Nominal Flow Rate

**150 N**

Max Actuation Force

**12.5 kg**

Unit Weight

## Pressure Specifications

| Parameter                    | Value         |
|------------------------------|---------------|
| Gear Pressure                | 1.2 ~ 1.5 MPa |
| Pressure Difference per Gear | d 0.1MPa      |
| Pressure Oscillation         | d ±0.1MPa     |

## Fluid Requirements

### Hydraulic Oil Specifications

| Property          | Requirement                              |
|-------------------|--|
| Oil Type          | Mineral oil (HL, HLP) per DIN 51 524     |
| Temperature Range | -20 to 120 °C                            |
| Viscosity Range   | 10 to 380 mm <sup>2</sup> /s             |
| Cleanliness Level | GB/T 14039-93 19/16 or NAS 1638 Class 10 |

## Applications

### Suitable Equipment

Loaders • Material Handling Equipment • Engineering Drills • Rock Drilling Machinery • Piling Machinery