

# Hydraulic Flow Amplifier

This hydraulic flow amplifier features a compact design with a simple piping layout, optimizing directional capabilities. It provides proportional flow control and incorporates a low-pressure, high-flow discharge function for energy savings.



## Overview

### High-Efficiency Hydraulic Flow Amplification

This hydraulic flow amplifier is designed to optimize steering capacity while maintaining a compact and simple piping layout. It offers proportional flow direction control and maintains a consistent flow ratio regardless of changes in load pressure. Engineered for energy efficiency, it features a low-pressure, high-flow discharge function suitable for demanding industrial applications.

## Performance Metrics

### Key Performance Metrics

**25 MPa**

Nominal Pressure

**160 L/min**

Nominal Flow Rate

**21 kg**

Weight

## Technical Specifications

### Aplicaciones

- Cargadora
- Topadora
- Maquinaria de agricultura
- Equipo para manejo de material

### Parámetros

Presión nominal (MPa)	25
Caudal nominal (L/min)	160
Caudal de salida (L/min)	80-145
Aceite hidráulico	Aceite mineral (HL, HLP) conforme con DIN 51 524
Rango de temperatura de caudal (°C)	-20-100
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)	21

Detailed technical parameters and application scope for the ZLF25 series flow amplifiers.

### Outlet Flow Range

80-145 L/min

### Operating Temperature Range

-20 to 100 °C

### Viscosity Range

10-380 mm<sup>2</sup>/s

## Fluid Requirements

### Hydraulic Oil Type

- Mineral oil (HL, HLP)
- Conforms to DIN 51 524

### Fluid Cleanliness Standards

GB/T 14039-93 Level 19/16, NAS 1638 Level 10

## Applications

### Compatible Machinery

Loaders • Bulldozers • Agricultural Machinery • Material Handling Equipment • Cranes • Construction Elevators

## Design Features

### Key Features

- Compact design with simplified piping
- Proportional flow direction control
- Load-independent flow ratio configuration
- Low-pressure high-flow discharge for energy saving
- Ergonomic and comfortable operation