

# Hydraulic Flow Amplifier

This hydraulic flow amplifier features a compact design with a simple piping layout, optimizing steering capacity. It delivers flow in proportion to the steering wheel rotation, with quick response to pressure changes and an integrated pressure limiting valve.



## Overview

### High-Performance Hydraulic Flow Amplification

This hydraulic flow amplifier is designed to optimize steering capacity in heavy machinery by providing a flow rate proportional to the steering wheel rotation. It features a compact design with a simplified piping scheme, ensuring a comfortable and responsive operating experience. With an integrated pressure limiting valve and rapid response to pressure changes, it delivers reliable performance across various load conditions.

## Key Performance Metrics

### Performance Highlights

**25 MPa**

Nominal Pressure

**160 L/min**

Nominal Flow Rate

**21 kg**

Net Weight

## Technical Specifications

Outlet Flow Rate	80 - 145 L/min
Viscosity Range	10 - 380 mm <sup>2</sup> /s
Operating Temperature Range	-20 to 100 °C

## Fluid Requirements

### Fluid Cleanliness Standard

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

Recommended Fluid	Mineral oil (HL, HLP) conforming to DIN 51 524
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## Applications

### ● 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

The ZLF25E series is suitable for a wide range of construction and agricultural machinery, offering robust performance in demanding environments.

### Target Applications

Loaders, Bulldozers, Agricultural Machinery, Material Handling Equipment, Excavators

## Features

### System Benefits

- Compact design with simplified piping
- Optimized steering capacity
- Constant flow ratio regardless of load pressure changes
- Proportional flow supply relative to steering rotation
- Integrated pressure limiting valve
- Rapid response to pressure signal changes