

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 ² /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 ² /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