

Hydraulic Steering Valve Orbitrol

This hydraulic steering valve, also known as an orbitrol, supplies oil to the steering and hydraulic system with low pressure drop. It diverts pump flow to the tank in response to system pressure.



Product Overview

High-Performance Orbitrol Steering Valve

This hydraulic steering valve, commonly referred to as an orbitrol, is engineered to provide precise directional control in heavy-duty machinery. By efficiently managing oil supply to steering and hydraulic systems at low pressure drops, it optimizes energy consumption by redirecting excess flow. It is a robust, reliable solution designed for high-performance applications in demanding environments.

Technical Specifications

Aplicaciones

- Pala cargadora
- Excavadora/cargadora
- Equipo para manejo de material

Parámetros

Presión nominal (MPa)	20
Caudal nominal (L/min)	160
Presión de control deferente (MPa)	1.1
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 14039-2002 nivel 19/16 o NAS 1638 nivel 10
Peso (Kg)	12

Technical diagram detailing the valve's operational parameters and system integration.

Key Performance Metrics

20 MPa

Nominal Pressure

160 L/min

Nominal Flow Rate

12 Kg

Weight

Operating Parameters

Parameter	Value
Differential Control Pressure	1.1 MPa
Flow Temperature Range	-20 ~ 100 °C
Viscosity Range	10 ~ 380 mm ² /s
Fluid Cleanliness Standard	GB/T 14039-2002 19/16 or NAS 1638 level 10

Hydraulic Medium

Mineral oil (HL, HLP) according to DIN 51 524

Compatibility

Suitable Applications

- Wheel loader
- Excavator/loader
- Material handling equipment