

Hydraulic Pilot Control Valve for Industrial Machinery

This hydraulic pilot control valve offers precise control and fast response. It is designed for simple piping installation and low pressure drop in hydraulic systems.



ADDITIONAL IMAGES



Product Overview

High-Precision Hydraulic Pilot Control

This Hydraulic Pilot Control Valve is engineered for demanding industrial and mobile machinery applications, offering accurate control and fast response times. It features an ergonomic handle with customizable switches and a compact design that simplifies piping installation while minimizing pressure drop. Designed for durability in harsh environments, it ensures optimal system performance for heavy equipment like loaders and excavators.

Key Performance Metrics

Performance Highlights

5 MPa

Max Pilot Pressure

16 L/min

Max Control Flow

24 V

Working Voltage

Technical Specifications

Parameters

Pilot pressure (MPa)	Maximum 5
Control flow (L/min)	Maximum 16
Return pressure (MPa)	Maximum 0.3
Control pressure range (MPa)	Rotating bucket slice: 0.5-2.5 Boom slice: 0.5-2.0
Working voltage (V)	DC24V
Working current (mA)	200 - 230 (at normal temperature, voltage 24V)
Operating temperature (°C)	-40 - 120
Rated suction (N)	300±20
Hydraulic oil	Mineral oil (HL, HLP) in accordance with DIN 51 524
Fluid temperature range (°C)	- 20 - 80
Viscosity range (mm ² /s)	10 - 380
Fluid cleanliness	Not lower than GB/T 14039-2002 level 19/16 or NAS 1638 level 10
Weight (kg)	DXS:9.6 GDXS:8.5

Detailed technical specifications including pressure ranges, electrical requirements, and fluid compatibility.

Control Pressure Range

Component	Pressure Range (MPa)
Rotating bucket slice	0.5 - 2.5
Boom slice	0.5 - 2.0

Maximum Return Pressure	0.3 MPa
Working Current	200~230 mA (at 24V)
Rated Suction	300 N

Fluid & Environmental Requirements

Fluid Requirements

Parameter	Requirement
Hydraulic Oil Type	Mineral oil (HL, HLP) DIN 51 524
Fluid Temp Range	-20°C to 80°C
Viscosity Range	10~380 mm ² /s
Fluid Cleanliness	GB/T 14039-2002 19/16 or NAS 1638 level 10

Operating Temperature Range	-40°C to 120°C
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Physical Properties

Unit Weight

- DXS Model: 9.6 kg
- GDXS Model: 8.5 kg

Applications

Target Machinery	Loader, Bulldozer, Agricultural Machinery, Material Handling, Compactor, Forestry Machinery, Container Crane, Drilling Rig, Excavator
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Features

Operational Features

- Accurate control and fast response
- Ergonomic handle with optional buttons/switches
- Low operating force for comfort
- Optional solenoid connection for auto-reset and positioning
- Integrated logic valve (e.g., floating control)
- Low pressure drop design