Transmission Valve Body with Solenoid for Electro-Hydraulic Control

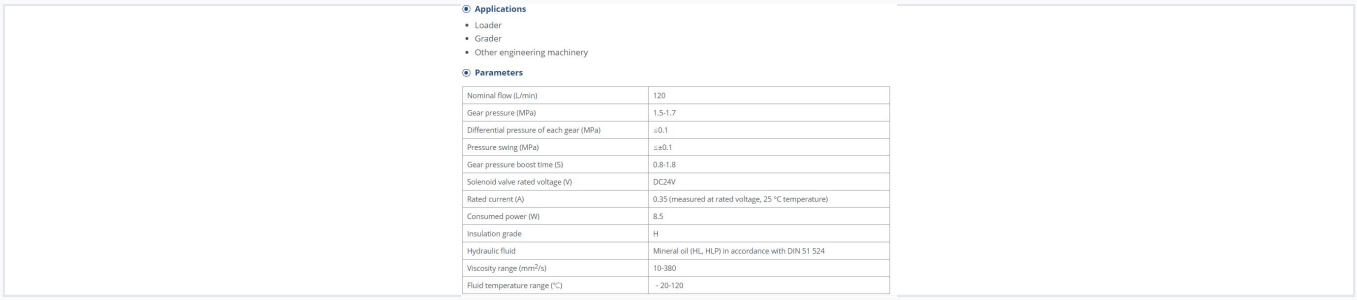
This transmission valve body is equipped with a solenoid valve, providing integrated electro-hydraulic control. The control valve is compact and highly integrated, ensuring simple maintenance and excellent efficiency for various applications.

Product Overview

Integrated Electro-Hydraulic Control

This transmission valve body is engineered with an integrated solenoid valve to provide precise electro-hydraulic control for heavy-duty machinery. Its compact design facilitates simple maintenance while delivering excellent efficiency, ensuring reliable performance in demanding environments. The unit supports 6x3 gear shifting with boost pressure control, resulting in smoother transitions, enhanced operating comfort, and reduced operator fatigue.

Technical Specifications



Applications

- Loader
- Grader
- Other engineering machinery

Parameters

Nominal flow (L/min)	120
Gear pressure (MPa)	1.5-1.7
Differential pressure of each gear (MPa)	≤0.1
Pressure swing (MPa)	≤±0.1
Gear pressure boost time (S)	0.8-1.8
Solenoid valve rated voltage (V)	DC24V
Rated current (A)	0.35 (measured at rated voltage, 25 °C temperature)
Consumed power (W)	8.5
Insulation grade	H
Hydraulic fluid	Mineral oil (HL, HLP) in accordance with DIN 51 524
Viscosity range (mm^2/s)	10-380
Fluid temperature range (°C)	- 20-120

Technical data sheet detailing the operational parameters and performance specifications of the transmission valve.

Performance Metrics

0.1 MPa	0.1 MPa	1.3 s
Differential Pressure	Pressure Swing	Pressure Boost Time

Nominal Flow	120 L/min
Gear Pressure Range	1.5-1.7

Electrical Specifications

Solenoid Configuration

Parameter	Value
Rated Voltage	DC24V
Rated Current	0.35 A
Power Consumption	8.5 W
Insulation Grade	H

Operating Environment

Hydraulic Fluid Compatibility	HL, HLP, DIN 51 524
Viscosity Range	10-380 mm²/s
Fluid Temperature Range	-20 to 120 °C

Applications

Suitable Machinery

- Loader
- Grader
- Mining Machinery
- Engineering Machinery