

Marine Transmission Hydraulic Shift Control Valve

This marine transmission shift valve ensures quick and smooth shifting. The control valve consists of a reversing valve, accumulator valve, and relief valve.



Product Overview

Marine Hydraulic Shift Control Valve

This hydraulic shift control valve is engineered for marine transmission systems, designed to ensure quick and smooth gear shifting. Its compact construction integrates a reversing valve, accumulator valve, and relief valve to effectively manage pressure changes and maintain predetermined set pressures. The unit is built for operator comfort, minimizing fatigue while providing low shock and low differential pressure during gear transitions.

Performance Metrics

Applications

- Ship

Parameters

Nominal flow (L/min)	40 (maximum flow: 72 L/min)
Gear pressure (MPa)	1.6-1.9
Differential pressure of each gear (MPa)	≤0.1
Fluid temperature range (°C)	-20-120
Viscosity range (mm ² /s)	28-50
Fluid cleanliness	Not lower than GB/T 14039-93 level 19/16 or NAS 1638 level 10
Weight (kg)	9

Technical specifications and performance parameters for the Q06 marine transmission shift valve.

Nominal Flow

40 L/min

Nominal Flow

72 L/min

Maximum Flow

Gear Pressure 1.6 - 1.9 MPa

Differential Pressure 0.1 MPa

Operating Environment

Fluid Temperature Range -20 to 120 °C

Viscosity Range 28-50 mm²/s

Required Fluid Cleanliness GB/T 14039-93 level 19/16, NAS 1638 level 10

Physical Specifications

Applications

Ship

Weight

9 kg

Features

Key Features

- Easy and comfortable operation to reduce operator fatigue
- Compact design integrating reversing, accumulator, and relief valves
- Quick and smooth shifting performance
- Low shock during gear shifting
- Integrated relief valve for pressure sensing