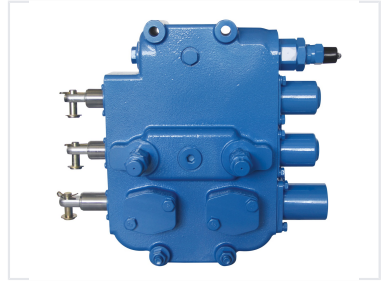


# Manual Monoblock Directional Control Valve

This monoblock directional control valve controls fluid flow with excellent characteristics. The mechanically operated control valve features low actuation force and is suitable for various applications.



## Product Overview

### Versatile Hydraulic Control

This manual monoblock directional control valve is engineered for demanding hydraulic systems, offering precise fluid flow control with low actuation force. Available in 2 or 3 section configurations, it is equipped with integrated safety, overload, and charge valves for enhanced reliability. Suitable for a wide range of heavy-duty applications, this valve features excellent flow characteristics and robust construction for long-term operational stability.

## Technical Specifications

### Parameters

Model	GDF32	GDF25
Rated pressure (MPa)	20	20
Rated flow (L/min)	250 (maximum flow: 350L/min)	160 (maximum flow: 250L/min)
Pressure range of main overflow valve (MPa)	8-20	
Pressure range of secondary overflow valve (MPa)	10-25	
Hydraulic oil	Mineral oil (HL, HLP) in accordance with DIN 51 524	
Fluid temperature range (°C)	- 20-100	
Viscosity range (mm <sup>2</sup> /s)	10-380	
Fluid cleanliness	Not lower than GB/T 14039-93 level 19/16 or NAS 1638 level 10	
Weight (Kg)	37.5 (2 sections)	44 (3 sections)
	<a href="#">INQUIRY</a>	<a href="#">INQUIRY</a>

Technical parameters and performance specifications for GDF series valves.

### Key Performance Metrics

**20 MPa**

Rated Pressure

**250 L/min**

Rated Flow (GDF32)

**160 L/min**

Rated Flow (GDF25)

### Detailed Technical Data

Feature	GDF32 Specification	GDF25 Specification
Max Flow Rate	350 L/min	250 L/min
Main Overflow Valve Pressure	8-20 MPa	8-20 MPa
Secondary Overflow Valve Pressure	10-25 MPa	10-25 MPa
Weight (2 sections)	37.5 Kg	N/A
Weight (3 sections)	N/A	44 Kg

## Operational Details

### Fluid & Environment

- Hydraulic Oil: Mineral oil (HL, HLP) per DIN 51 524
- Fluid Temperature Range: -20 to 100 °C
- Viscosity Range: 10-380 mm<sup>2</sup>/s
- Fluid Cleanliness: GB/T 14039-93 level 19/16 or NAS 1638 level 10

### Design & Configuration

2 Sections, 3 Sections, Serial-Parallel Connection, Parallel Connection, 3 Spool Positions, 4 Spool Positions, Stainless Steel Ball Spring Plunger

## Applications

### Ideal Applications

Loader • Bulldozer • Agricultural Machinery • Material Handling Machinery