



5.8

# 35MD08-3401 TYPE

## Directional Valve with Manual Operation

Rated pressure (bar / psi)	240 / 3500
Peak flow (L/min / gpm)	37.9 / 10

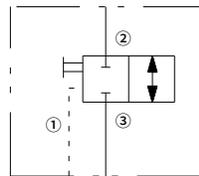
### Features

- Hardened parts for long life and low leakage
- Pressure to 14 bar (200 psi) on ①
- Optional rotational lock position
- Industry common cavity

### Contents

Description	02
Operation	02
Ordering code	02
Materials	02
Technical data	03
Performance	03
Dimensions	04

### Symbol



## Description

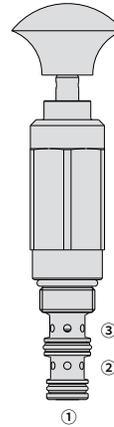
A manual, 3-way, pull-to-shift, spring-return, directional hydraulic cartridge valve.

## Operation

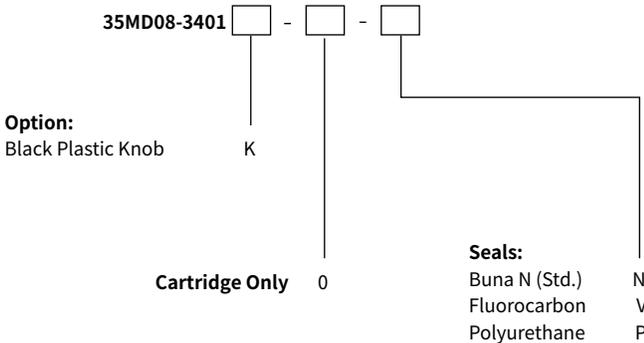
In its steady-state, spring-offset position, the valve blocks flow from ② to ③ .

In the actuated (pulled) position, the cartridge directs flow from ③ to ② . The spring chamber is vented at ① . When released, the valve returns to its steady state.

**Note:** Pressure at port ① will directly act on the spool and spring. Port ① is intended to be a tank port only.



## Ordering Code



## Materials

### Cartridge:

Weight: 0.23 kg; Steel with hardened work surfaces. Zinc-plated exposed surfaces; Buna N (Std. ) seal.

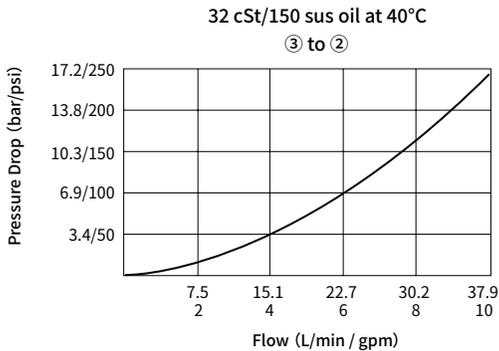
### Standard Ported Body:

Anodized high-strength aluminum alloy, rated to 240 bar; Ductile iron and steel bodies available; Dimensions may differ, consult factory.

## Technical Data

Rated pressure	240 bar (3500 psi)
Proof pressure	350 bar (5075 psi)
Peak flow	37.9 L/min (10 gpm)
Internal leakage ( ② to ① )	≤ 33 ml/min @ 240 bar
Mechanical pull effort required	7.3 kg installed; 8.6 kg to travel 3.2 mm; 9.1 kg to detent
Cavity	VC10-2 (See technical reference)
Fluid	Mineral-based or synthetics with lubricating properties
Viscosity range	7.4 to 420 mm <sup>2</sup> /s
Temperature range	-40 to 100 °C (Buna N seals)
	-26 to 204 °C (Fluorocarbon seals)
	-54 to 107 °C (Polyurethane seals)
Degree of fluid contamination	The minimum pollution level is ISO4406 level 18/16/13, and level 15/13/11 is recommended to prolong the service life

## Performance (Cartridge Only)



## Dimensions

