

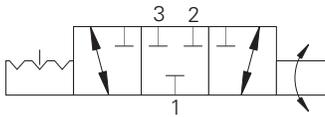
# MRV13-10 - Manual Rotary Valve

Manual semi-rotary directional control valve

23 L/min (6 USgpm) • 350 bar (5000 psi)

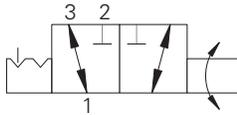
## MRV13-10(V)-D/E

3 position models

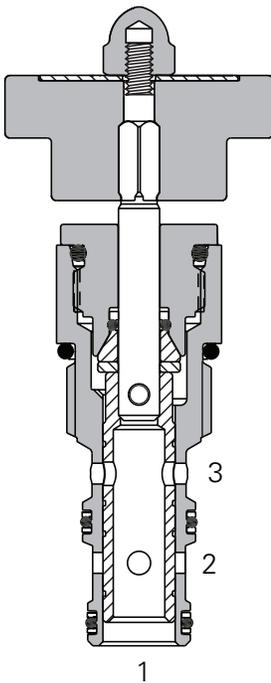


## MRV13-10(V)-D2/2E

2 position models



## Sectional View



"K" TYPE OPTION

## Description

This is a high pressure 3 way 2 or 3 position manual semi-rotary directional control valve. Can be used as a diverter or a dump valve

## Operation

This valve will direct flow between ports 1 and 3 and block port 2 in one position.

By turning the operator 90°, flow will be directed between ports 1 and 2 and port 3 will be blocked. During cross-over transition, all ports are blocked.

## Features

Hardened, ground and honed working parts to limit leakage and prolong life. Various levers and knobs available with and without detent. Working pressure 350 bar.

## Performance Data

### Ratings and Specifications

Performance data is typical with fluid at 21,8 cSt (105 SUS) and 49°C (120°F)

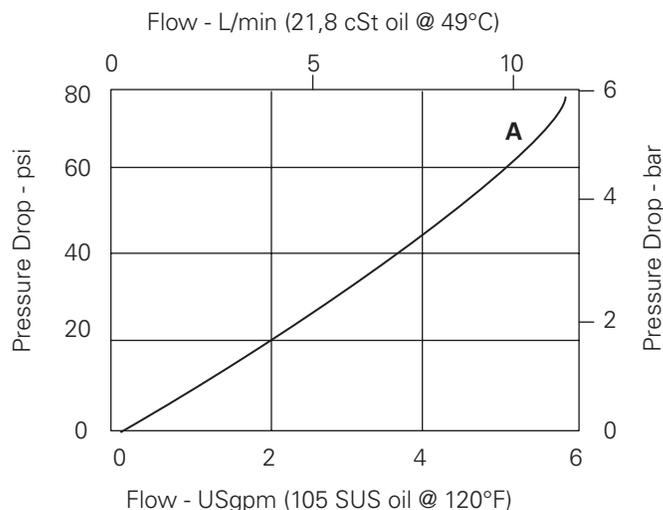
Typical application pressure (all ports)	350 bar (5000 psi)
Cartridge fatigue pressure (infinite life)	350 bar (5000 psi)
Rated flow	23 L/min (6 USgpm)
Internal leakage	250 cc/min (15in <sup>3</sup> /min) @ 350 bar (5000 psi)
Temperature range	-40° to 120°C (-40° to 248°F)
Manual operators	D- Lever (3-position detent)* D2 - Lever (2-position detent)* E - Ball (3-position detent)* E2- Ball (2-position detent)* K- Knob (2-position, no detent)
Cavity	C-10-3
Fluids	All general purpose hydraulic fluids such as MIL-H-5606, SAE 10, SAE 20, etc.
Filtration	Cleanliness code 18/16/13
Standard housing materials	Aluminum or Steel
Weight cartridge only	0,22 kg (0.48 lbs)
Seal kit	565804 (Buna-N), 889599 (Viton®)

\* Light duty housing only.

Viton is a registered trademark of E.I. DuPont

## Pressure Drop Curves

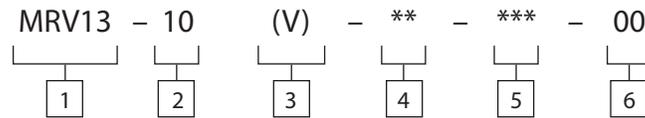
Cartridge only



# MRV13-10 - Manual Rotary Valve

Manual semi-rotary directional control valve  
23 L/min (6 USgpm) • 350 bar (5000 psi)

## Model Code



### 1 Function

MRV13 - Manual rotary valve

### 2 Size

10 - 10 Size

### 3 Seals

Blank - Buna-N  
V - Viton®

### 4 Manual Operator

0 - No operator  
D - Lever (3-position detent)  
D2 - Lever (2-position detent)  
E - Ball (3-position detent)  
E2 - Ball (2-position detent)  
K - Knob (2-position, no detent)

### 5 Port Size

0 - Cartridge only

### 6 Special Features

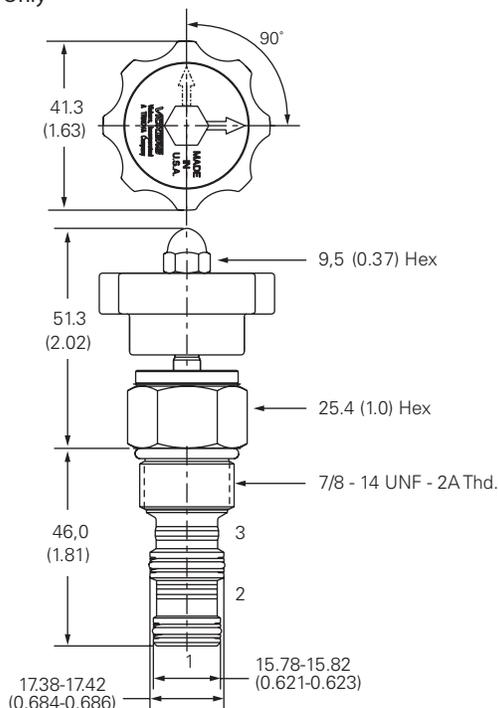
00 - Non (Only required if valve has special features, omitted if "00")

Code	Port Size	Housing Number
0		Aluminum Fatigue rated
		Steel
A2G	1/4" BSPP	02-185804
A3G	3/8" BSPP	02-185805
A6H	SAE 6	02-185802
A8H	SAE 8	02-185803
S2G	1/4" BSPP	02-175127
S3G	1/3" BSPP	02-175128
S6T	SAE 6	02-175124
S8T	SAE 8	02-175125

## Dimensions

mm (inch)

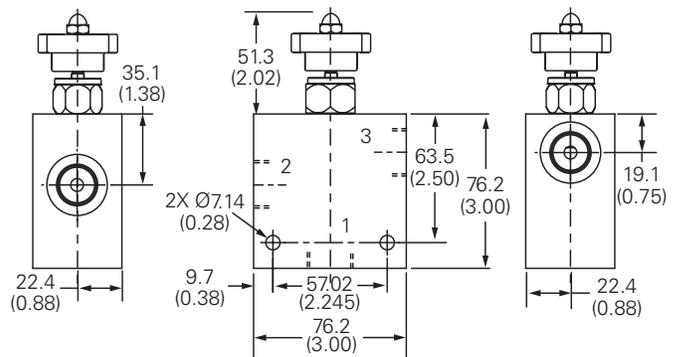
### Cartridge Only



### Torque cartridge in housing

A - 47-54 Nm (35-40 ft. lbs)  
S - 68-75 Nm (50-55 ft. lbs)

### Installation Drawing (Steel)



### WARNING

Aluminum housings can be used for pressures up to 210 bar (3000 psi). Steel housings must be used for operating pressures above 210 bar (3000 psi).