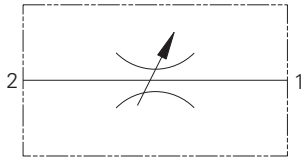


# MRV2-10 - Flow Restrictor Valve

Semi-rotary

Up to 57 L/min (15 USgpm) • 210 Bar (3000 psi)



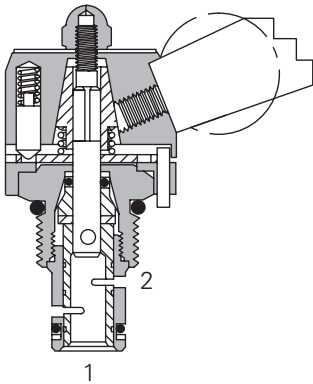
## Operation

This valve will increase or decrease flow by changing the variable orifice with the rotary adjustment. Recommended flow path is 2 to 1.

## Features

Hardened and ground working components. Cartridge construction for maximum mounting flexibility. Flexible mounting for the handle position, detent available.

## Sectional View



## 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) |                                                                                                                                                                    | 210 bar (3000 psi) |
|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| Rated inlet flow                         | 05 - 0-18,9 L/min                                                                                                                                                  | (0-5 USgpm)        |
|                                          | 10 - 0-37,8 L/min                                                                                                                                                  | (0-10 USgpm)       |
|                                          | 15 - 0-56,7 L/min                                                                                                                                                  | (0-15 USgpm)       |
| Internal leakage                         | 164 cm <sup>3</sup> /min (10 in <sup>3</sup> /min) maximum 210 bar (3000 psi)                                                                                      |                    |
| Temperature range                        | -40° to 120°C (-40° to 248°F)                                                                                                                                      |                    |
| Manual operators                         | B - Ball lever (friction lock)*<br>E - Ball lever (10 position detent)*<br>D - Lever (10 position detent)*<br>L - Lever (friction lock)*<br>K - Knob (non-locking) |                    |
| * Light duty housing only                | C-10-2                                                                                                                                                             |                    |
| Cavity                                   | All general purpose hydraulic fluids such as:<br>MIL-H-5606, SAE 10, SAE 20 etc.                                                                                   |                    |
| Fluids                                   | Cleanliness code 18/16/13                                                                                                                                          |                    |
| Filtration                               | Aluminum                                                                                                                                                           |                    |
| Standard housing material                | 0,79 kg (1.74 lbs)                                                                                                                                                 |                    |
| Weight cartridge only                    | 561810 (Buna-N), 889609 (Viton®)                                                                                                                                   |                    |
| Seal kit                                 |                                                                                                                                                                    |                    |

Viton is a registered trademark of E.I. DuPont

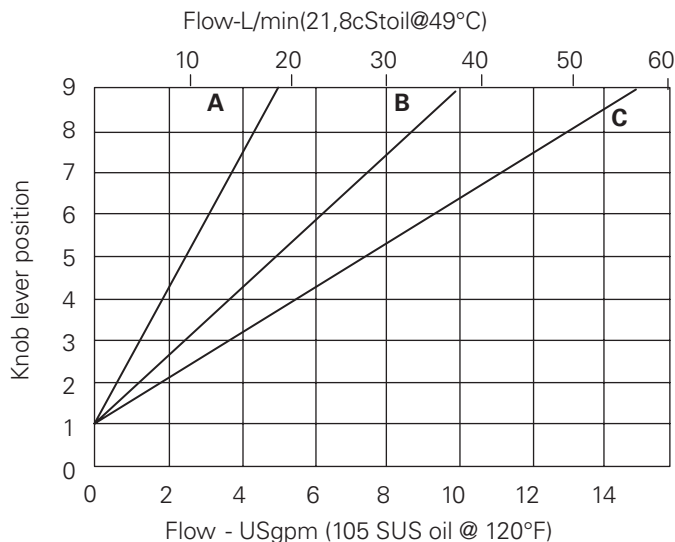
## Description

This is a 2 way 2 position manually operated semi rotary restrictor screw in cartridge valve. This can be used in conjunction with a compensator to give an increase in flow in proportion to the movement of the lever.

## Pressure Drop

Cartridge only

@ 5,5 bar (80 psi) pressure drop



Rated flow (See model code position 6)

A - 05

B - 10

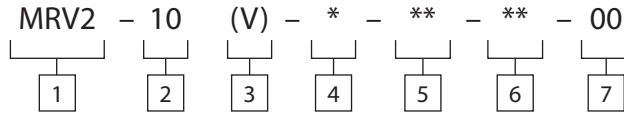
C - 15

# MRV2-10 - Flow Restrictor Valve

Semi-rotary

Up to 57 L/min (15 USgpm) • 210 Bar (3000 psi)

## Model Code



### 1 Function

MRV2 - Manual rotary valve

### 2 Size

10 - 10 size

### 3 Seal Material

Blank - Buna-N  
V - Viton®

### 4 Adjustment

O - Cartridge only  
B - Ball lever (friction lock)\*  
E - Ball lever  
(10 position detent)\*

D - Lever (10 position detent)\*  
L - Lever (friction lock)\*  
K - Knob (non-locking)

\*Light duty housings only

### 6 Max Flow Ranges

05 - 0-18,9 L/min (0-5 USgpm)  
10 - 0-37,8 L/min (0-10 USgpm)  
15 - 0-56,7 L/min (0-15 USgpm)

### 7 Special Features

00 - None  
(Only required if valve has special features, omit if ("00")  
SS - 316 Stainless Steel external components

### 5 Port Size

| Code | Port Size      | Housing Number       |                         |
|------|----------------|----------------------|-------------------------|
|      |                | Aluminium Light duty | Aluminium Fatigue rated |
| 0    | Cartridge only |                      |                         |
| 3B   | 3/8" BSPP      | 02-175462            | -                       |
| 6T   | SAE 6          | 566151               | -                       |
| 2G   | 1/4" BSPP      | -                    | 876702                  |
| 3G   | 3/8" BSPP      | -                    | 876703                  |
| 6H   | SAE 6          | -                    | 876700                  |
| 8H   | SAE 8          | -                    | 876701                  |

See section J for housing details.

## Dimensions

mm (inch)

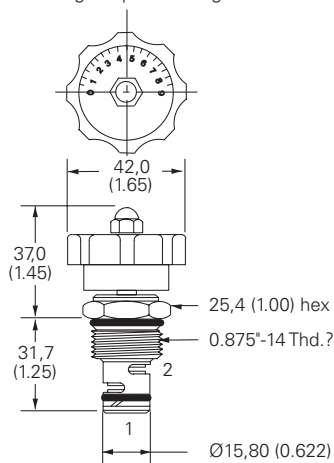
Cartridge Only  
Basic Code  
MRV2-10

Torque cartridge in aluminum housing 47-54 Nm (35-50 ft lbs)

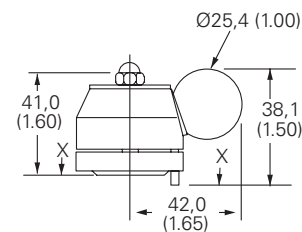
## Installation Drawing

### MRV2-10-K Knob Operated

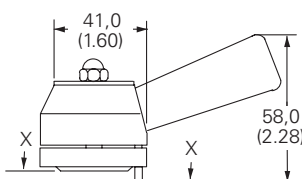
Arrow can be re-located by slacking the plate. Re-tighten nut.



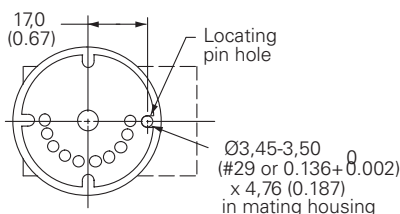
### MRV2-10-B/E Models



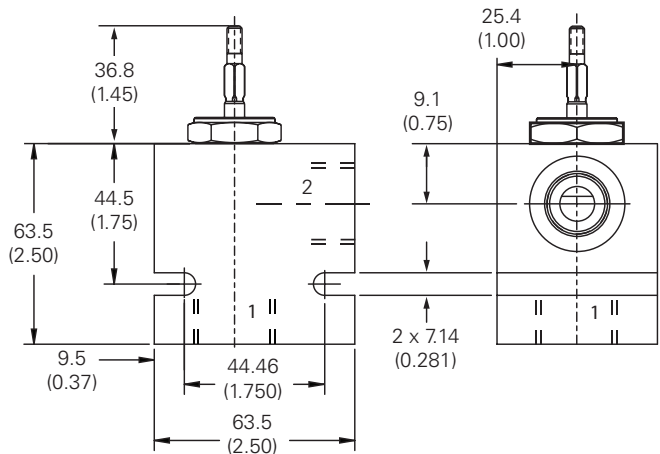
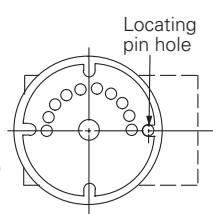
### MRV2-10-D/L Models



### MRV2-10-E/D Models



### MRV2-10-B/L Models



## 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).