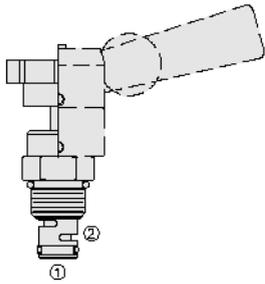




## Overview



### Description

The mr10-20xx is a manual rotary flow control.

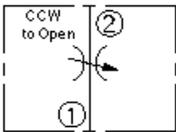
### Operation

Flow is increased from minimum to maximum in a counterclockwise rotation. It is a cartridge style valve for use with general purpose hydraulic fluids.

### Features

- Ten-position detent or infinite friction lock options.
- Good linearity in three flow range options.
- Adaptable to a variety of operators.
- Optional lock-down bracket.
- Heavy-duty construction.
- Low effort adjustment.
- Industry common cavity.

### Symbol



## Ratings

### Pressure Ratings

Pressure rating 241 bar (3500 psi)

### Flow Ratings

Flow rating See charts

Maximum internal leakage 164 ml/min (10 in<sup>3</sup>/min) - **Note:** At 241 bar (3500 psi)

### Temperature Ratings

Operating fluid temperature	-40 to 100 °C (-40 to 212 °F)	- <b>Note:</b> With buna N seals
	-26 to 204 °C (-15 to 400 °F)	- <b>Note:</b> With viton seals
	-54 to 107 °C (-65 to 225 °F)	- <b>Note:</b> With polyurethane seals
Storage temperature	-40 to 70 °C (-40 to 160 °F)	
Ambient temperature	-40 to 70 °C (-40 to 160 °F)	

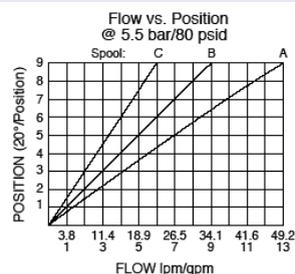
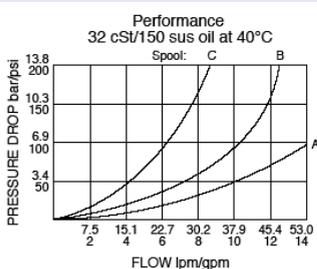
## Operating Parameters

Fluids	Mineral based or synthetic hydraulic fluid with lubricating properties	
Fluid viscosity range	7.4 to 420 cSt	
Maximum operating contamination level	20/18/14 per ISO 4406	

## Properties

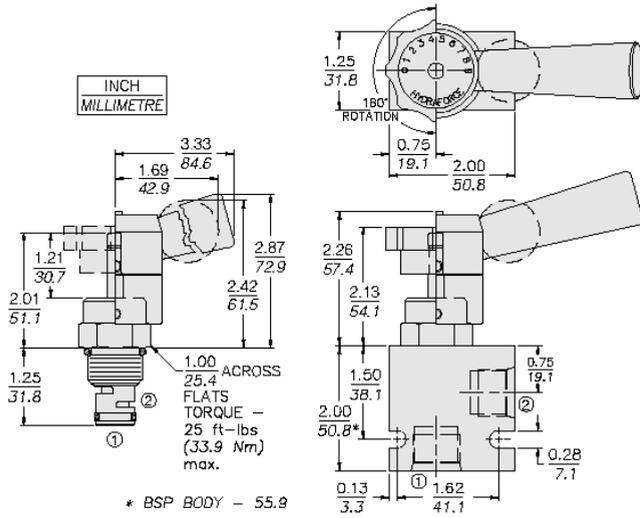
Operating torque required	3.95 N-m (35 in-lb)	- <b>Note:</b> At 6.7 bar (100 psi)
	5.08 N-m (45 in-lb)	- <b>Note:</b> At 241 bar (3500 psi)
Unit weight	0.14 kg (0.3 lb)	
Internal wetted surface area	113 cm <sup>2</sup> (17.5 in <sup>2</sup> )	

## Performance





## Dimensions



## Installation Specifications

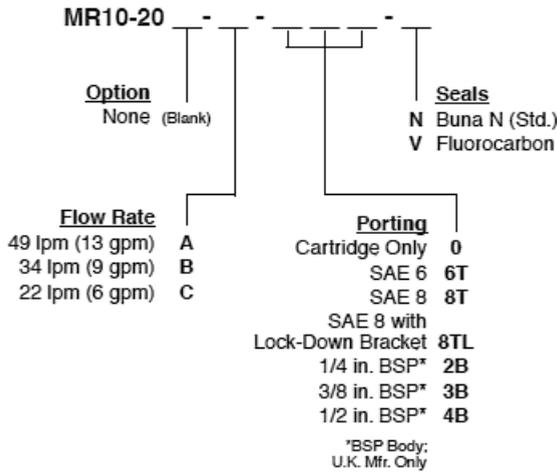
Cavity	VC10-2
Cartridge installation torque	32.6 to 35.4 N-m (24 to 26 ft-lb)
Orientation restriction	None

## Accessories

Seal kit	SK10-2X-M	- <b>Note:</b> X=seal option
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## Order Code



### Model Options

#### MR10-20BG-H-J

#### B Spool Metering Capability

CODE	DESCRIPTION
A	0 to 13 gpm (0 to 49.2 lpm)
B	0 to 9 gpm (0 to 34.1 lpm)
C	0 to 6 gpm (0 to 22.7 lpm)

#### G Screen

CODE	DESCRIPTION
BLANK	NONE
S	100 Mesh Screen

#### H Line Body

CODE	DESCRIPTION
0	No Body
6T	Aluminum SAE 6
8T	Aluminum SAE 8
8TL	Aluminum SAE 8L
6TD	Ductile Iron SAE 6
8TD	Ductile Iron SAE 8
3B	Aluminum BSPP 3/8" (3)
4B	Aluminum BSPP 1/2" (4)
4BD	Ductile Iron BSPP 1/2" (4)

#### J Seal

CODE	DESCRIPTION
N	Buna-N
V	Fluorocarbon
P	Polyurethane
U	PPDI Urethane