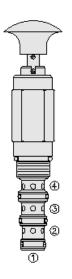


Overview



Description

The MP10-40X is a 4-way, manual, 2-position, pull to shift, spring return, directional hydraulic cartridge valve with locking feature.

Operation

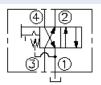
In its neutral position the valve directs flow from port 3 to port 2 and from port 4 to port 1. In the actuated (pulled) position it directs flow from port 3 to port 4 and from port 2 to port 1. All ports are open in transition. The spring chamber is vented at port 1. When released the valve returns to its neutral position.

note: pressure at port 1 will directly act on spool and spring.

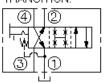
Features

- Hardened spool and cage for long life.
- Remains closed to 14 bar (200 psi) back-pressure.
- Optional rotational lock position.
- Industry-common cavity.

Symbol



TRANSITION:



Ratings

Pressure Ratings

Pressure rating 207 bar (3000 psi) - Note: Ports 2, 3, and 4

14 bar (200 psi) - Note: Port 1

Flow Ratings

Flow rating See performance graph

Maximum internal leakage 82 ml/min (5 in³/min) - **Note**: At 207 bar (3000 psi)

Temperature Ratings

Operating fluid temperature -40 to 100 °C (-40 to 212 °F) - Note: With buna N seals -26 to 204 °C (-15 to 400 °F) - Note: With fluorocarbon seals

Storage temperature -40 to 70 °C (-40 to 160 °F) Ambient temperature -40 to 90 °C (-40 to 194 °F)

Operating Parameters

Fluids Mineral based or synthetic hydraulic fluid with lubricating properties

Fluid viscosity range 7.4 to 420 cSt

Maximum operating contamination 20/18/14 per ISO 4406

level

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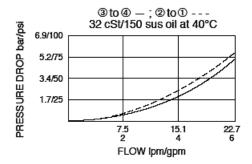
Properties

- Note: Installed Mechanical pull effort required

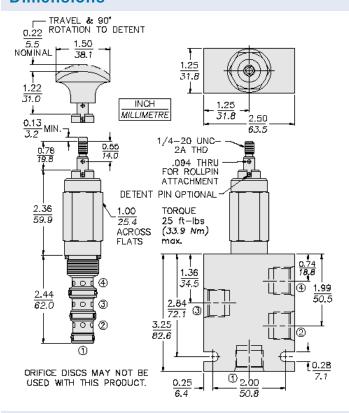
7.3 kg (16 lb) 8.2 kg (18 lb) 8.6 kg (19 lb) - Note: To travel - Note: To detent

0.32 kg (0.7 lb) Unit weight 201 cm² (31.1 in²) Internal wetted surface area

Performance



Dimensions



Installation Specifications

VC10-4 Cavity

32.5 to 35.3 N-m (24 to 26 ft-lb) Cartridge installation torque

Orientation restriction None

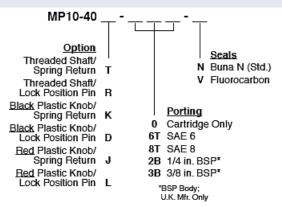
Accessories

- Note: X = seal option Seal kit SK10-4X-MMT

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Order Code



Model Options

MP10-40F-H-J

F Adjustment

CODE	DESCRIPTION
D	Black Plastic Knob with Lock Position Pin
J	Red Plastic Knob with Spring Return
K	Black Plastic Knob with Spring Return
L	Red Plastic Knob with Lock Position Pin
R	Threaded Shaft with Lock Position Pin
Т	Threaded Shaft with Spring Return

H Line Body

CODE	DESCRIPTION
0	No Body
6T	Aluminum SAE 6
8T	Aluminum SAE 8
6TD	Ductile Iron SAE 6

J Seal

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

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