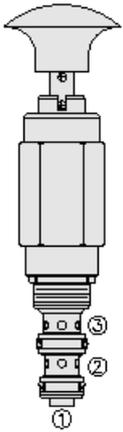




Overview



Description

The MP58-30X is a 3-way, manual pull to shift, spring return, directional hydraulic cartridge valve.

Operation

In its neutral position the valve directs flow from port 2 to 1, while blocking port 3. In the actuated (pulled) position it directs flow from port 3 to 2, blocking port 1. The spring chamber is vented at port 1. When released the valve returns to its neutral position. A unique pull and rotate feature for holding the positive actuated position is optional. A 90° rotation is required to lock the valve in the actuated (pulled) position. The valve resets to spring return (neutral) position with a slight pull and a 90° turn from the locked actuated position.

note: 1. Series operation is prohibited due to the tank port (port 1) pressure rating.

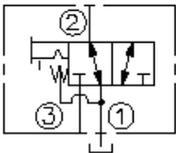
note: 2. Pressure at port 1 will directly act on the spool and spring.

note: port 1 is intended to be a tank port only.

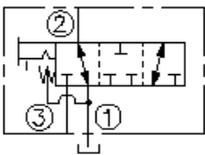
Features

- Hardened spool and cage for long life.
- Pressure to 14 bar (200 psi) on port 1.
- Optional rotational lock position.
- Compact, industry-common cavity.

Symbol



TRANSITION:



Ratings

Pressure Ratings

Pressure rating 345 bar (5000 psi) - **Note:** Port 3 to port 2
 14 bar (200 psi) - **Note:** Port 1 maximum

Flow Ratings

Flow rating See performance graph
 Maximum internal leakage 147 ml/min (9 in³/min) - **Note:** At 345 bar (5000 psi)

Temperature Ratings

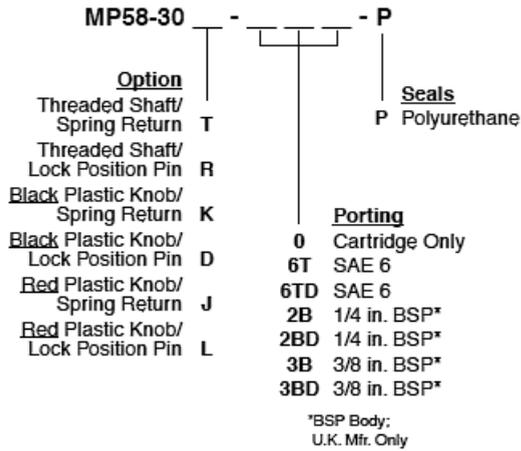
Operating fluid temperature -54 to 107 °C (-65 to 225 °F)
 Storage temperature -40 to 70 °C (-40 to 158 °F)
 Ambient temperature -40 to 90 °C (-40 to 194 °F)

Operating Parameters

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



Order Code



Model Options

Adjustment

F Threaded Shaft with Lock Position Pin

| CODE | DESCRIPTION |
|------|-----------------------------------|
| T | Threaded Shaft with Spring Return |

H Line Body

| CODE | DESCRIPTION |
|------|----------------------------|
| 0 | No Body |
| 4T | Aluminum SAE 4 |
| 6T | Aluminum SAE 6 |
| 6TD | Ductile Iron SAE 6 |
| 8TD | Ductile Iron SAE 8 |
| 3B | Aluminum BSPP 3/8" (3) |
| 3BD | Ductile Iron BSPP 3/8" (3) |

J Seal

| CODE | DESCRIPTION |
|------|--------------|
| N | Buna-N |
| V | Fluorocarbon |
| P | Polyurethane |