



4.7

30MD10-20 TYPE

Directional Valve with Manual Operation

Rated pressure (bar / psi)	207 / 3000
Peak flow (L/min / gpm)	See performance chart

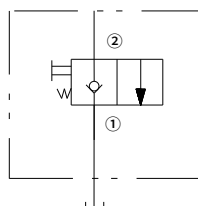
Features

- Hardened parts for long life and low leakage
- Remains closed to 12.4 bar (180 psi) back-pressure
- Optional rotational lock position
- Industry common cavity

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Symbol



Description

A manual, 2-way, pull-to-open, screw-in hydraulic directional valve.

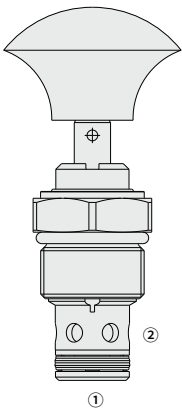
Operation

The valve blocks flow from ② to ① until an operator pulls the shaft outward.

The bias spring allows for up to 12.4 bar (180 psi) back-pressure at ① before the valve will open.

Note: Pressure at port ① will directly act on the spool and spring.
Port ① is intended to be a tank port only.

A unique 90° rotational lock is optional for positive “open” position holding. The valve resets to spring return-to-close with a 90° turn from the locked-open position.



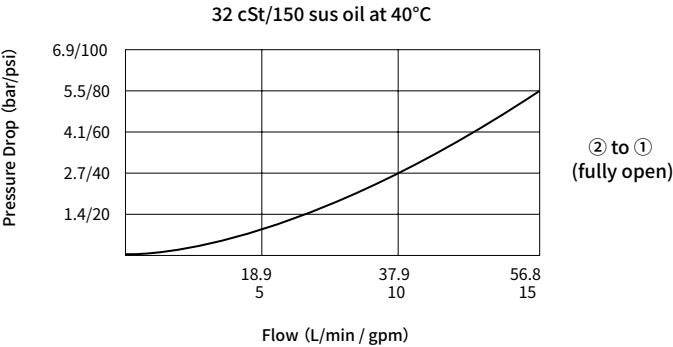
Ordering Code

30MD10-20				-		-		-				
				T	Cartridge Only	0						
				R								
				K								
				D								
				J								
				L								

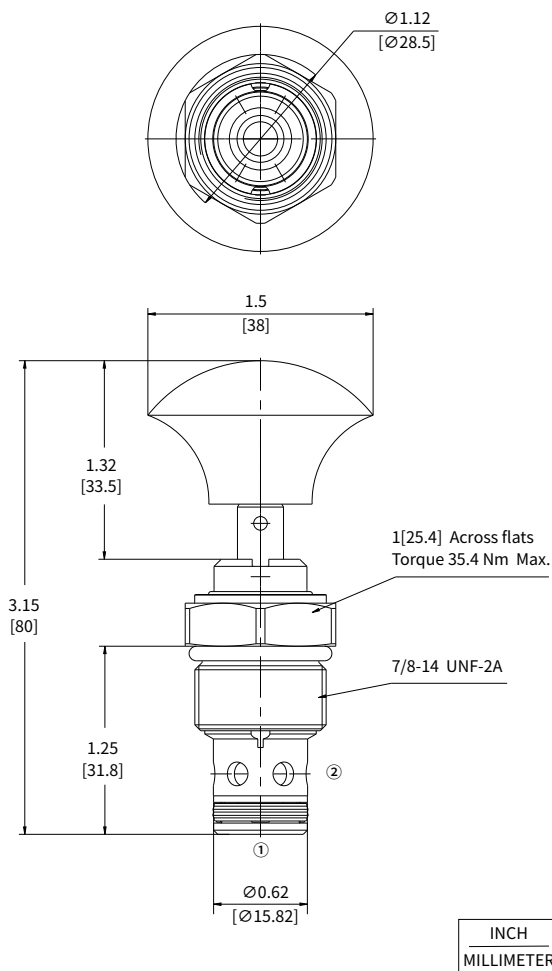
Technical Data

Rated pressure	207 bar (3000 psi)
Proof pressure	350 bar (5075 psi)
Peak flow	See performance chart
Internal leakage (② to ①)	≤ 5 drops/min @ 207 bar
Mechanical pull effort required at rated pressure	7.3 kg
Cavity	VC10-2 (See technical reference)
Fluid	Mineral-based or synthetics with lubricating properties
Viscosity range	7.4 to 420 mm ² /s
Temperature range	-40 to 100 °C (Buna N seals)
	-26 to 204 °C (Fluorocarbon seals)
	-54 to 107 °C (Polyurethane seals)
Degree of fluid contamination	The minimum pollution level is ISO4406 level 20/18/14, and level 17/15/13 is recommended to prolong the service life

Performance (Cartridge Only)



Dimensions



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Flow Control Valves

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