Microtorque® Valve 518, 526 Series

Features

- Original Shear-Seal® technology
- Compact design
- Non-interflow option
- Spring return option
- Multiple handle types
- 2 or 3 position detent

Applications

- Work holding clamps and systems
- Hydraulic presses and lifting systems
- Hydraulic test equipment
- Grease injection equipment
- Hydraulic power units



General Specifications*

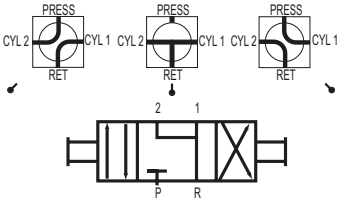
Media:	Hydraulic oil
Working Pressure:	6,000 psi (415 bar) **
Flow Capacity, Cv:	See table
Back Pressure:	Must not exceed 250 psi (17.2 bar)*** at return port for satisfactory operation
Proof Pressure:	1-1/2 times working pressure except at return port
Burst Pressure:	2-1/2 times working pressure except at return port
Media Temperature Range:	-40° to +250°F (-40° to +121°C)
Porting:	1/4" NPT, SAE for 1/4" tubing, or DO3 pattern for manifold mounting
Panel Mounting:	Panel mounting nut (-P option)
Manifold Mounting:	ISO 4401-03 mounting pad DO3 Manifold mounting shipped with (4) #10-24 screws and O-Rings
Handle Rotation:	90°; 45° each side of center position

Detent: 2-position: 3-position:	 Detent at 90° positions Detents at center and 2 extreme positions
Optional Spring Return:	Available to center or either shifted position 5,000 psi (345 bar) max working pressure on spring return option
Body & Housing:	Anodized aluminum
Shaft, Rotor, Pressure Seals:	400 series stainless steel
Standard O-Rings:	Buna N, others available
Back-up Rings:	PTFE
Bearings:	Hardened steel
Shipping Weight:	.95 lbs

* See product configurator for additional options.
** Consult factory for pressure up to 10,000 psi (690 bar)
*** For requirements in excess of 250 psi (17.2 bar) at return port consult factory

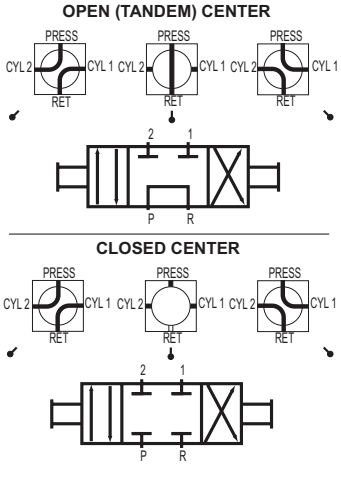
	Flow Capacity (Approx.)			
	20 ft/sec (6.1 m/s) gpm (l/min)	40 ft/sec (12.2 m/s) gpm (l/min)	Min. Flow Passage Dia.	Cv Factor
518 Series Interflow	1.4 (5.6)	2.8 (11)	0.17"	0.40
526 Series Non-Interflow	0.36 (1.4)	0.72 (2.7)	0.086"	0.09

CLOSED CENTER MANIPULATOR

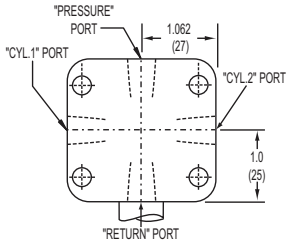


OPEN (TANDEM) CENTER

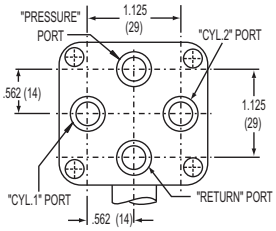
CLOSED CENTER



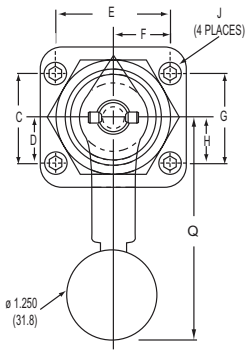
Technical Drawings

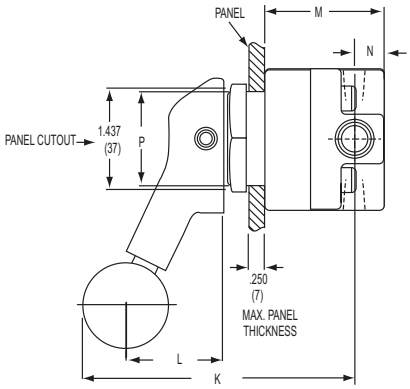


REGULAR (SIDE) PORTING

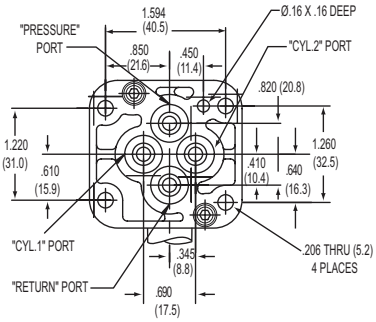


STRAIGHT (BOTTOM) PORTING

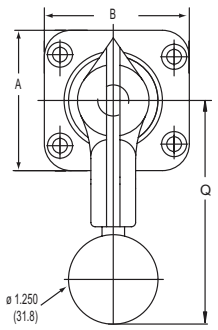


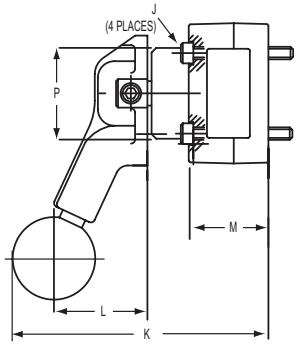


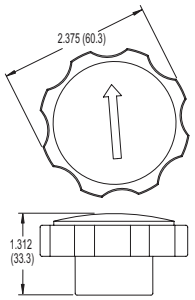
Regular and Straight Porting



MANIFOLD PORTING
(Mounting per DO3 Spec)







Optional Knob (-E)

Series	Porting	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q
518 or 526	21R , 61S Porting	1.968 (50.0)	2.031 (51.6)	1.281 (32.5)	.640 (16.3)	1.594 (40.5)	.850 (21.6)	1.219 (31.1)	.610 (15.5)	1/4-28 UNF	3.812 (96.8)	1.437 (36.5)	1.781 (45.2)	.437 (11.1)	1.375 (34.9)	3.125 (79.4)
	41M Manifold Porting	1.968 (50.0)	2.031 (51.6)							10-24 UNC	3.875 (98.4)	1.437 (36.5)	1.406 (29.0)		1.375 (34.9)	3.125 (79.4)
	Spring Return Option										5.562 (141.3)	2.500 (63.3)				5.437 (138.1)

Product Configurator

Example:	518	41M	6	H	C	3		

Series

518	Interflow
526	Non-interflow

Porting

21R	Regular (side) porting
41M	Manifold porting (D03)
61S	Straight (bottom) Porting

Pressure Range

6	6,000 psi

Working Media

H	Hydraulic oil

Flow Pattern

C	4-way closed center
O	4-way open center
M	4-way manipulator Closed center

Detent Position

2	2-position 90° rotation
3	3-position

Position

-Zxx	Optional O-ring material [2]

Options

-MC	Spring return to center [1]
-MR	Spring return to right (Pressure port to C1) [1]
-ML	Spring return to left (Pressure port to C2) [1]
-MS	SAE porting for 1/4" tubing
-E	Black knob (not available with spring return)
-P	Panel mounting nut p/n 22357

1. 5,000psi max working pressure for spring return option
2. See supplemental guide for the appropriate "Z number"