



## Direct Drive Valve

FEMA Corporation features a number of unique engineering capabilities, innovative products, exceptional production competencies, distinctive cultural philosophies, and attentive services which continually exceed our customers' expectations. We have a rich history, built on the foundation of technical engineering prowess and operational excellence, which has resulted in long-term, stable growth.

### Description:

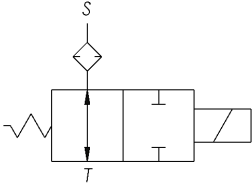
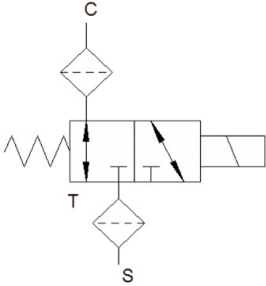
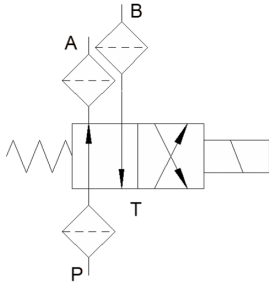
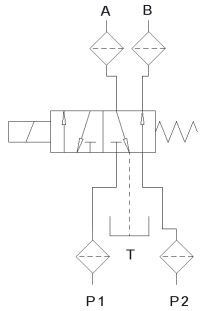
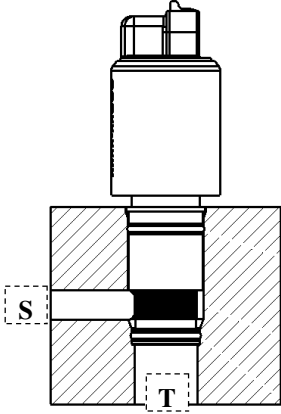
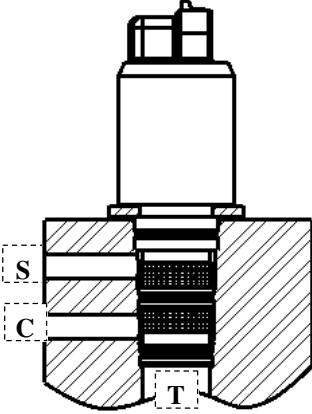
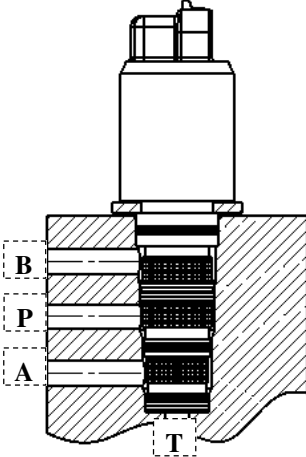
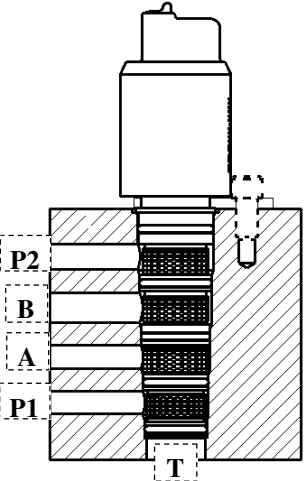
The Direct Drive Valve is an on-off, solenoid-operated 2, 3, 4, or 5 way direct drive valve. As opposed to a traditional brazed tube and over-molded coil design, FEMA Corporation's innovative on-off valves utilize a integrated coil design for high force output in a small package size with easy installation.

### Specifications & Ratings

- ◆ 2, 3, 4, or 5 way On/Off control
- ◆ Normally closed or open configurations
- ◆ Temperature rating -40 °C to 100 °C (High temperature variants available)
- ◆ Typical supply pressure: Up to 100 bar (High pressure variants available)
- ◆ Typical flow:  $\geq 18$  L/min @ 58 cSt and 5 bar differential pressure
- ◆ Typical leakage:  $\leq 0.02$  L/min @ 58 cSt and 17.5 bar differential pressure
- ◆ Actuating voltage range: 9-16 VDC or 19-30 VDC
- ◆ Available with and without filters
- ◆ Available with and without diode

Specification:	SP 28079	Direct Drive Valve Specification Sheet		<b>EN 30007</b>	
Revision:	B	Date:	05/04/2016		

# Circuits and Porting-Examples

Type	2-way On/Off	3-way On/Off	4-way On/Off	5-way On/Off
Schematic				
Typical Porting				
Envelope	Approx. ext. dimension: 33 mm diameter x 63 mm height  Approx. cavity dimension: 24 mm diameter x 42 mm depth	Approx. ext. dimension: 33 mm diameter x 63 mm height  Approx. cavity dimension: 24 mm diameter x 42 mm depth	Approx. ext. dimension: 33 mm diameter x 63 mm height  Approx. cavity dimension: 24 mm diameter x 58 mm depth	Approx. ext. dimension: 33 mm diameter x 63 mm height  Approx. cavity dimension: 24 mm diameter x 70 mm depth



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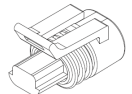
Sales@Fema-Corp.com



## Features & Options for Inquiry or Ordering

<b>Direct Drive Valve</b>	<b><u>3</u></b>	<b><u>S</u></b>	<b><u>12</u></b>	<b><u>NC</u></b>	<b><u>STD</u></b>	<b><u>0</u></b>	<b><u>M</u></b>	<b><u>H</u></b>	<b><u>B</u></b>	<b><u>N75</u></b>	<b><u>050</u></b>	<b><u>0</u></b>
Type	# Ports	Speed	Voltage	State	Port Arrangement	Diode	Connector Type	Connector Orientation	Connector Color	O-ring type	Filter type	Clamp

- **Number of ports:** (2), (3), (4) or (5)
- **Speed:**
  - Standard response time (S)
  - Fast response time for cold oil applications (F)
- **Voltage:** 12 VDC (12) or 24 VDC (24)
- **Control port de-energized state:**
  - Normally open (NO)
  - Normally closed (NC)
  - Controlled latent flow (LF)
- **Porting arrangement:**
  - Standard: Tank at snout end (STD)
  - Reverse port with control at snout end (REV)
- **Diode:** None (0), Uni-directional (1), or Bi-directional (2)
- **Electrical Connector Type:**
  - Standard: connect to Metri-Pack® 150 connector type II (M)
  - Other: contact FEMA for information on developing other connector types
- **Orientation:** Horizontal (H) or Vertical (V)
- **Color:** Black (B), White (W), or Gray (G)
- **O-rings Material/durometer:**
  - Nitrile (N75, N90), Urethane (U90) or Viton (V75)
- **Filter options:**
  - 50x50 mesh (050)
  - 40x200 mesh (200)
  - No filter (000)
- **Mounting clamp options:**
  - Without clamp (0) or With clamp (1). \*Contact FEMA for high pressure clamp



\*\* Not all combinations are available, yet some additional features are available. Contact FEMA

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