

## L10N (Proportional Cartridge 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:

FEMA's high-frequency valves are frictionless hydraulic pressure modulation pilot valves often used to control a spool element within a cartridge. These two-stage valves provide high-spool driving forces and maintain excellent function in heavily contaminated systems. The frictionless pilot design and the free-floating cartridge housing allows for exceptionally low hysteresis and simplified high frequency command signal. FEMA's high-frequency valves, often used in transmission clutch and PTO control, offer high reliability, low cost and precision proportionality while maintaining a small size and weight

### Specifications & Ratings

- ◆ 3 way - 2 position proportional control
- ◆ Proportional pressure control
- ◆ Temperature rating -40 °C to 100 °C
- ◆ Typical supply pressure: 20 to 30 bar
- ◆ Pilot tank pressure: 0.1 bar steady state, 1 bar max transient.
- ◆ Main tank pressure: 1 bar max
- ◆ Typical (two-stage) valve resolution: 0.5 to 1.0 mA
- ◆ Typical control pressure: 20 to 30 bar
- ◆ Typical flow: >19 L/min @ 27cSt and 3.5 bar differential pressure
- ◆ Typical pilot leakage @ 27cSt and 20 bar differential pressure:
  - ◆ De-actuated: <1.0 L/min
  - ◆ Actuated: <0.3 L/min

Specification:	SP 28080	L10N Specification Sheet		EN 30007	
Revision:	A	Date:	01/05/2016		



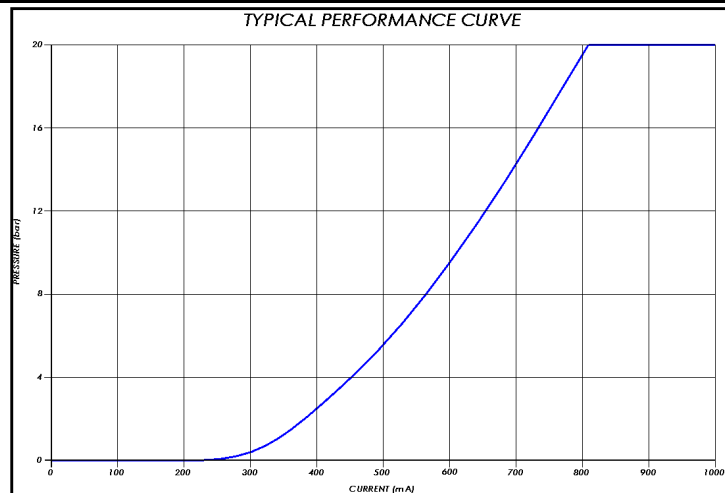
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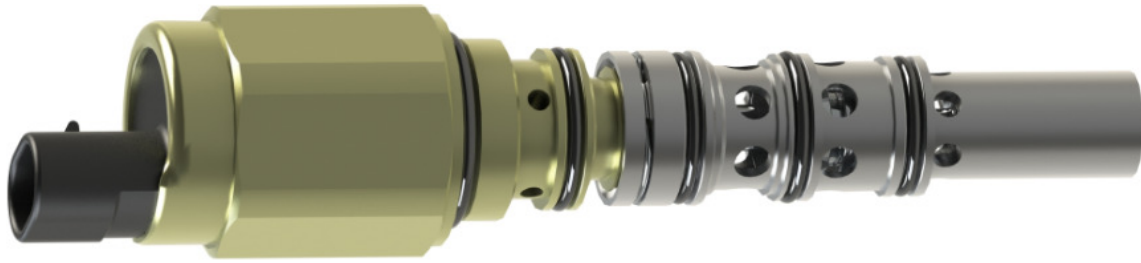
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# Circuits and Porting-Examples

Type	<b>Pressure Control 3w-2p</b>	<b>Pressure Control 3w-2p-Common Supply</b>
Schematic		
Typical Porting		
Envelope	<p>Approximate external dimensions: 35 mm diameter x 63 mm height</p> <p>Approximate cavity dimensions: 22 mm diameter x 100 mm depth</p>	<p>Approximate external dimensions: 35 mm diameter x 63 mm height</p> <p>Approximate cavity dimensions: 22 mm diameter x 100 mm depth</p>



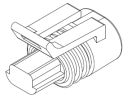
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## Features & Options for Inquiry or Ordering

<u>PCV</u>	<u>3</u>	<u>A</u>	<u>12</u>	<u>NC</u>	<u>STD</u>	<u>M</u>	<u>Y</u>	<u>B</u>	<u>N75</u>	<u>712</u>	<u>20</u>
Type	# Ports	Control	Voltage	State	Port Arrangement	Connector Type	Connector Orientation	Connector Color	O-ring type	Filter type	Supply Pressure

- Number of ports: (3)
- Control:
  - Pressure control (A). Contact FEMA for information on developing flow control options
- Voltage: 12 VDC (12)
- Control port de-energized state:
  - Normally closed (NC)
- Porting arrangement:
  - Standard: Tank at snout end (STD)
- Electrical connector type:
  - Standard: connect to Metri-Pack® 150 connector type II (M)
  - Leadwire: (L)
  - Other: Contact FEMA for information on developing other connector types
- Orientation: Inverted (I)
- Color: Black (B), White (W), or Gray (G)
- O-rings Material/durometer:
  - Nitrile (N75, N90) or Viton (V75)
- Supply Filter :
  - 712 micron nominal (712)
  - No filter (000)
- Supply pressure: 20 bar (20) or 30 bar (30)



\*\* Not all combinations are available, yet some additional features are available. Contact FEMA corporation Sales or your application engineer for any questions.

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