

**FLUIDPRO**

Dosing Systems

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**PSV-D**

Pulse width modulated PSV-D Driver Modules regulate the power supplied to PSV Regulating valves based on a reference signal.

Set-point signals, 0-5 Vdc or 4-20 mA, input are employed to control the output pulse width modulated voltage at a fixed frequency (>30KHz) and amplitude. Incoming power to the valve coil is applied and discontinued for pre-determined periods of time by a low loss solid state switching element.

As incoming power is applied, energy in the inductive coils increases and when it is discontinued energy stored in the coil maintains the magnetic flux level required to hold flow at the controlled rate. This cycle takes place many thousands of times per second.

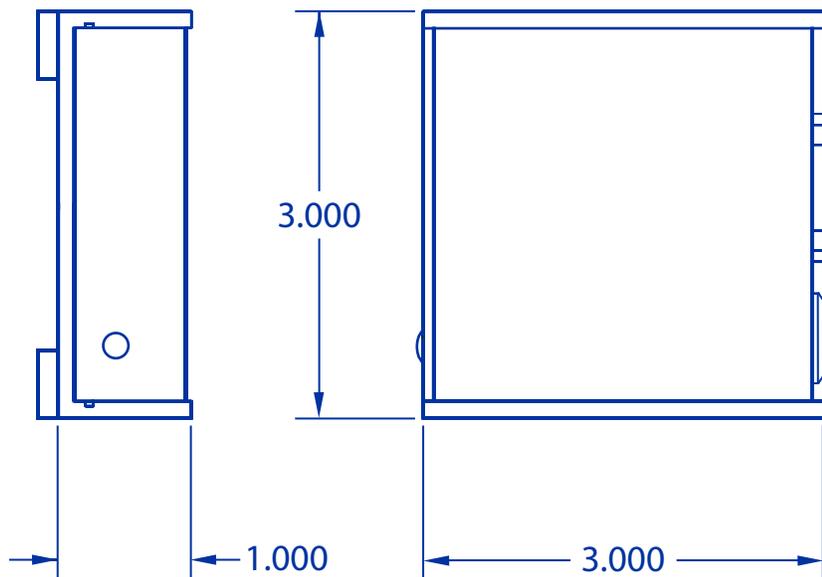
**The wide range of power input features conveniently accommodates 12 to 32 Vdc sources.**

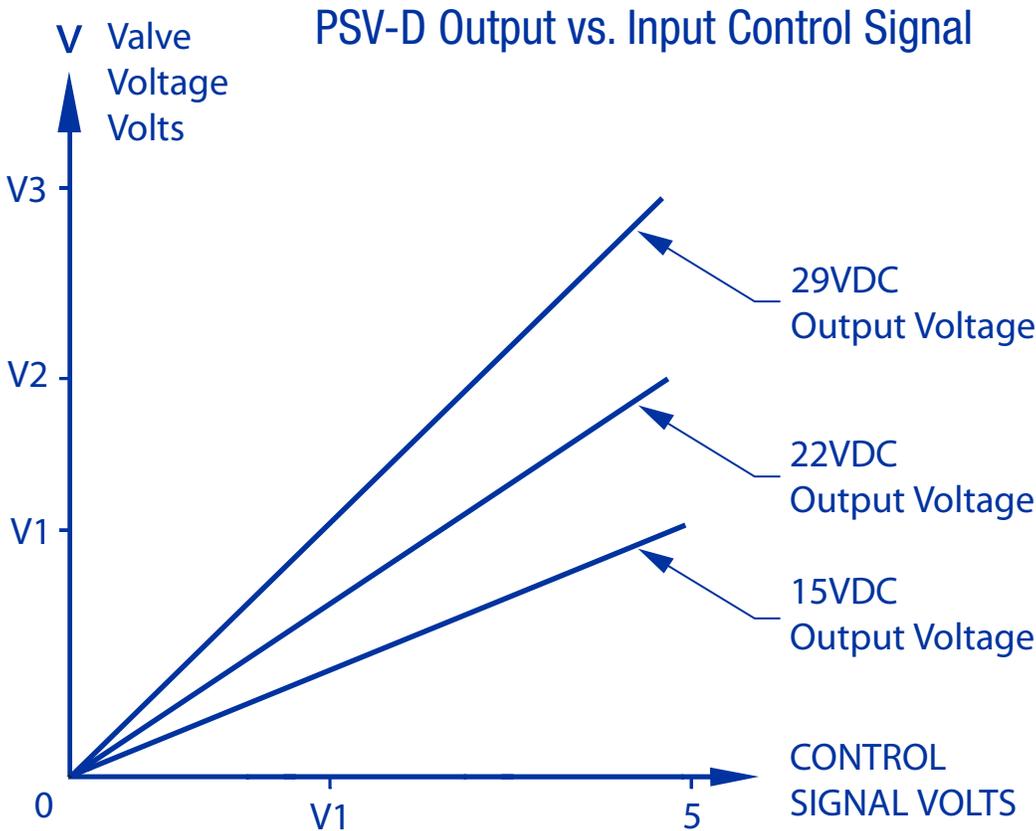
The Auto-Select feature of the Driver Module recognizes the type of reference signal received and defaults to 0 - 5 Vdc if both signals are provided.



Shown with PSV Valve

**Dimensions Pulse Width Modulated Driver Module**





Jumper selectable output power allows a choice of dc voltage range for cooler more efficient operation, as a function of flow rates.

**Internal resettable fuse protects electronics and rectifier circuits, prevents polarity reversal damage.**

The maximum output voltage supplied to the PSV Valve can be set or changed in the field to allow for optimal use of the input reference signal to output voltage based on the specific flow rate and operating pressure applied to the valve.

TABLE 89 - SPECIFICATIONS

<b>CONNECTION:</b>	9-pin male "D" subconnector for input/output signals.
<b>POWER INPUT REQUIRED:</b>	+12 to 30 Vdc 1A @ 12 Vdc, 0.5A (not supplied) @ 24 Vdc via 9-pin "D"-connector or dc power jack (center positive).
<b>INPUT SIGNAL:</b>	Auto-Select feature allows circuit to recognize which analog input reference (0 to 5 Vdc or 4-20 mA) signal is provided.
<b>TTL ON/OFF:</b>	Jumper selectable LOW (0 Vdc) OFF-HIGH (5 Vdc) on, or reverse, to select valve ON/OFF status.
<b>VALVE OUTPUT POWER:</b>	Jumper selectable to +15, +22, and +29 Vdc with adjacent potentiometer to obtain ±2 Vdc.
<b>FUSE RATING:</b>	An internal resettable 1.6A fuse protects the electronics on the power input.
<b>POLARITY PROTECTION:</b>	Internal rectifier circuit protects from reversed polarity on the power input.
<b>OPERATING TEMPERATURE:</b>	32 °F (0 °C) to 122 °F (50 °C).
<b>DIMENSIONS:</b>	3" (7.62mm) wide x 3" (7.62mm) deep x 1" (25.4mm) high.
<b>CE COMPLIANCE :</b>	EMC Directive 89/336/EEC EN55011:1991 Group 1, Class A EN50082-2:1995.

ORDERING INFORMATION FOR PSV-D	
MODEL	
PSV-D	Proportionating Solenoid Valve Driver

TABLE 90- ACCESSORIES FOR FOR PSVD DRIVER MODULE

PS-PSV-110NA-4	Power Supply, 110vac/24 Vdc /North America
PS-PSV-230EU-4	Power Supply, 230vac/24 Vdc /Europe
PS-PSV-240AU-4	Power Supply 240vac/24 Vdc /Australia
PS-PSV-240UK-4	Power Supply 240vac/24 Vdc /United Kingdom
CBL-DP9-6	Female 9 pin D-connector with 6 ft.cable

PSV-D