

D1 Proportional Linear Motor Valve Driver



Compact and easy to use, the D1 proportional linear motor valve driver is designed to optimize the performance of Enfield Technologies' valves. With selectable input options, the D1 allows for quick interfacing between the valve and PLC, computer or motion controller.

Features

- Lightweight
- Compact Size
- Enclosed Circuit
- No Heat Sink Required
- RoHs Compliant
- Digital Closed Loop Current Control
- Accepts PWM Input from PLC
- LED Indicators for Power and Status

Applications

- Rotary Positioning
- Pump & Compressor Control
- Lane Divide & Divert
- Material Processing
- Lifecycle Testing
- Pneumatic Press
- Material Processing
- Tensioning and Braking

Compatibility

LS-Series Valves

- LS-V05s
- LS-V15s
- LS-V25s

M-Series Valves

- M2s

Mechanical Specifications:

- Temperature Range:**
-40° to 65°C (-40° to 150°F)
- Connector:**
6 pin Pluggable Terminal Block
- Mounting:**
Removable DIN Clip w/ Flush Option
- Height:**
45 mm (1.76 in)
- Width:**
46 mm (1.76 in)
- Length:**
56 mm (2.20 in)
- Weight:**
45 g (1.6 oz)

Material Specifications:

- Main Body:**
ABS
- Gray Cap:**
PAGF 30%
- DIN Clip:**
ABS

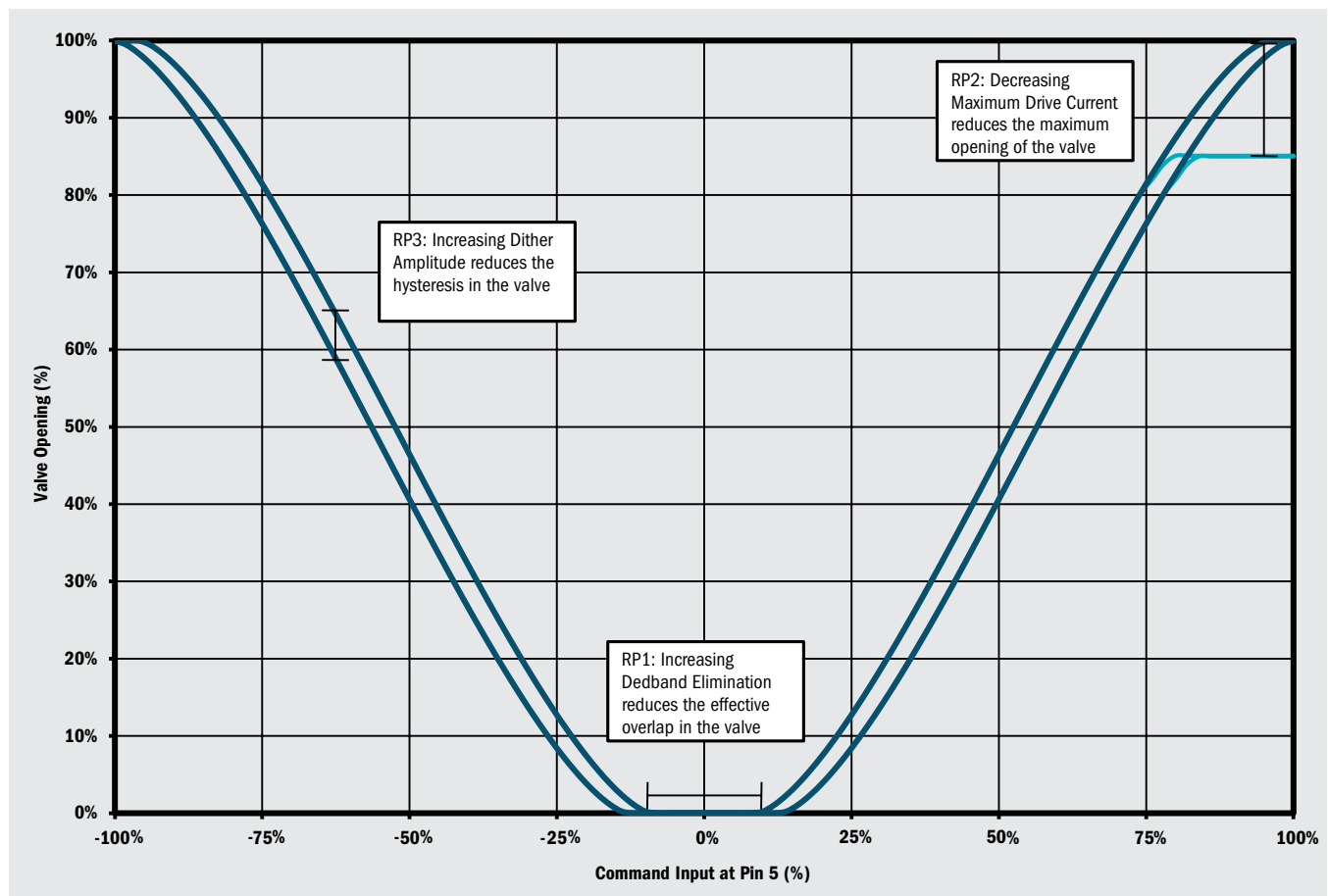
Electrical Specifications

- Power Requirement:**
12 ± 2 VDC
24 ± 4 VDC @ 15W
- Command Input Impedance:**
0...5VDC or 0...10VDC: 100kΩ
0...20mA or 4...20mA: 210Ω
- Command Input:**
Selectable 0...5 VDC, 0...10 VDC,
PWM (>2 kHz), 0...20mA, 4...20mA
- Output:**
-1A...0...1A
- Electronic Adjustments:**
Three Configurable Potentiometers
Jumpers Select Analog Input Signal Types
- Status Indications:**
2 Power and Status LEDs
- Electrical Connection:**
6 pin Pluggable Terminal Block
- Potentiometer Adjustments:**
- Deadband Elimination:**
11 Turn Potentiometer (RP1)
- Dither Amplitude:**
11 Turn Potentiometer (RP2)
- Maximum Drive Current:**
11 Turn Potentiometer (RP3)

D1 Proportional Linear Motor Valve Driver

The **D1 Proportional Linear Motor Valve Driver** provides a readily available solution that is compact and easy to implement. The D1 helps users avoid the effort and expense of characterizing valves and developing electronics for their application. For applications using PLCs or computers, the D1 easily interfaces with the valve. This eliminates the need to write valve management routines which consume valuable processing cycles needed for other machine functions.

Driver Adjustments



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