6000 SERIES
SINGLE HEAD MINI DIAPHRAGM PUMP

Compact. Precise. Reliable performance in miniature design.

Product Snapshot

- Max flow: up to **5.0 L/min** (0.18 cfm)
- Max vacuum: **26 inHg** (133 mbar abs)
- Max pressure: **50 psig** (3.4 bar)
- Motor options: **Brushed or Brushless DC**
- Operating voltage: **12 VDC** or custom

Key Features

- **Compact & lightweight:**
  3.0 oz (85 g), portable, space-saving
- **Precise control:**
  Short pressure/vacuum bursts, accurate flow
- **Reliable under load:**
  Safe restarts, consistent performance
- **Durable design:**
  Tested for thousands of on/off cycles
- **Customizable:**
  Motors, voltages, materials

Technical Specifications

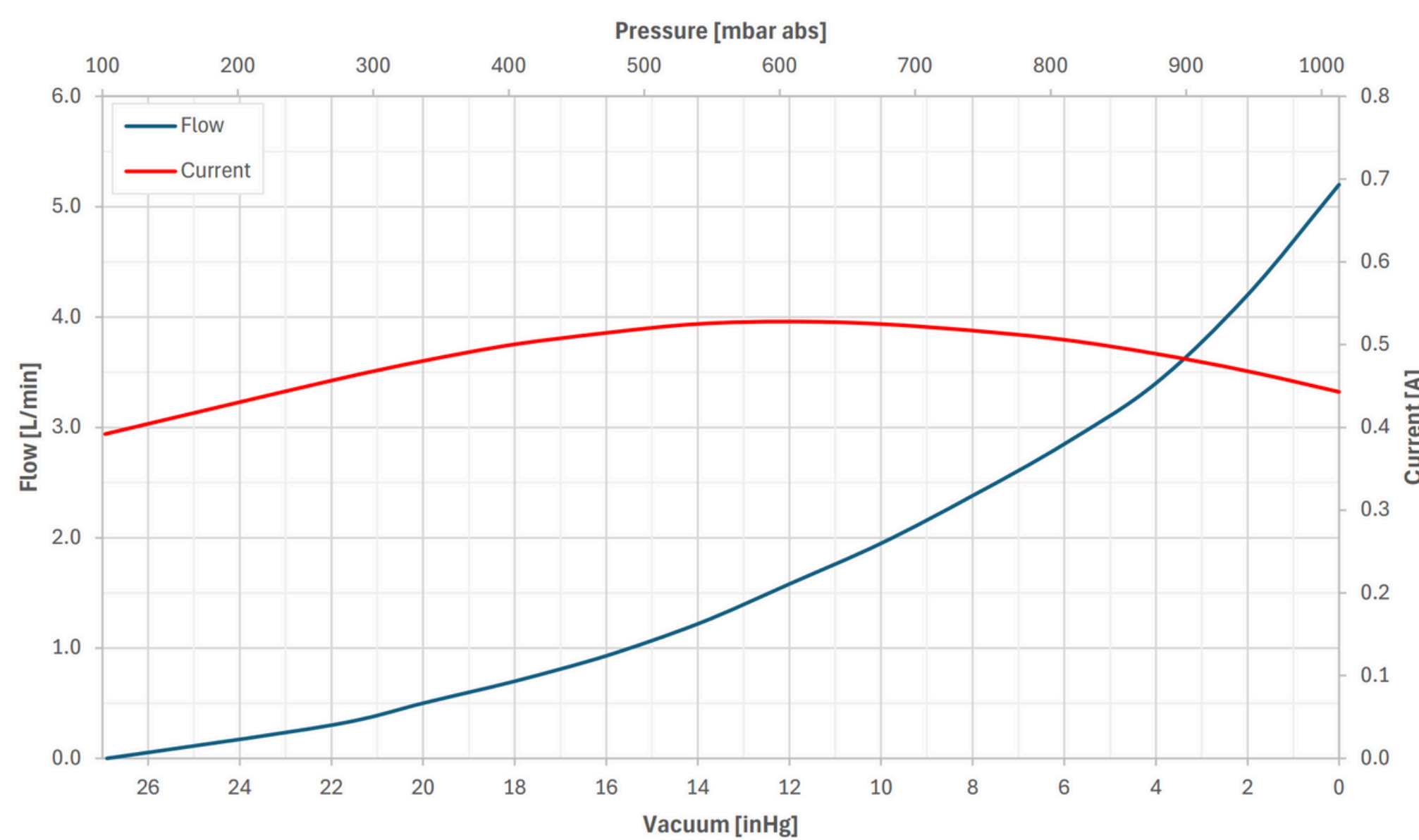| Parameter	Value
Max Flow	5.0 L/min (0.18 cfm)
Max Pressure	50 psig (3.4 bar)
Max Vacuum	26 inHg (133 mbar abs)
Operating Voltage	12 VDC or custom
Max Current Draw	0.9 A
Ambient / Media Temperature	41° F to 104° F (5° C to 40° C)
Weight	3.0 oz (85 g)
Wetted Materials	Glass-Filled LCP, EPDM, Silicone
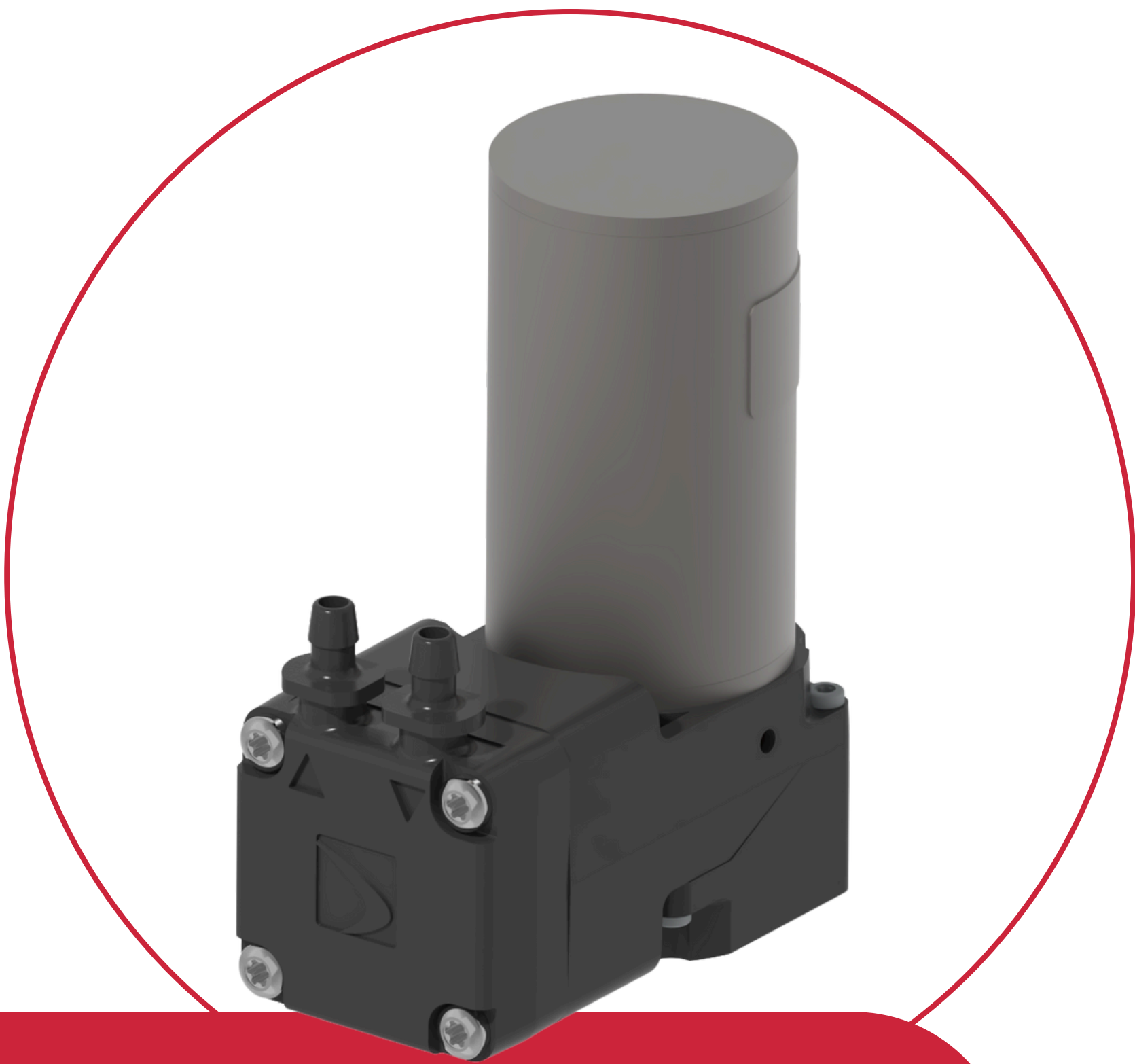
The **6000 Series** combines **precise flow control with** a **compact, ultra-lightweight design**. Delivering short bursts of pressure and vacuum, these miniature diaphragm pumps ensure r**eliable performance even under load**. Tested for thousands of rapid cycles, they offer **long-term durability while maintaining low power consumption.** Fully customizable in motor type, voltages, and materials, the 6000 Series provides **versatile solutions for applications where accuracy, reliability, and portability are essential.**

Flow Curves

Vacuum, DD6112201

Pressure, DD6112201

Dimensions

(2x) 3/32" Hose Barb

8.3±.4
[210±10]

2.28
[58]

Hirose DF13-2S-1.25 Connector
Pin 1: +12 V
Pin 2: Ground
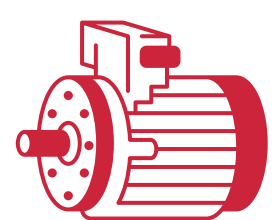
Inlet   Outlet
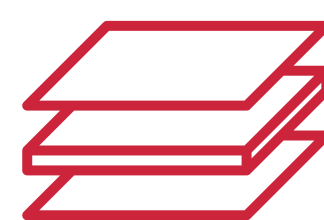
.35
[8,9]

1.20
[30,5]

1.80
[45,8]

.90
[22,9]
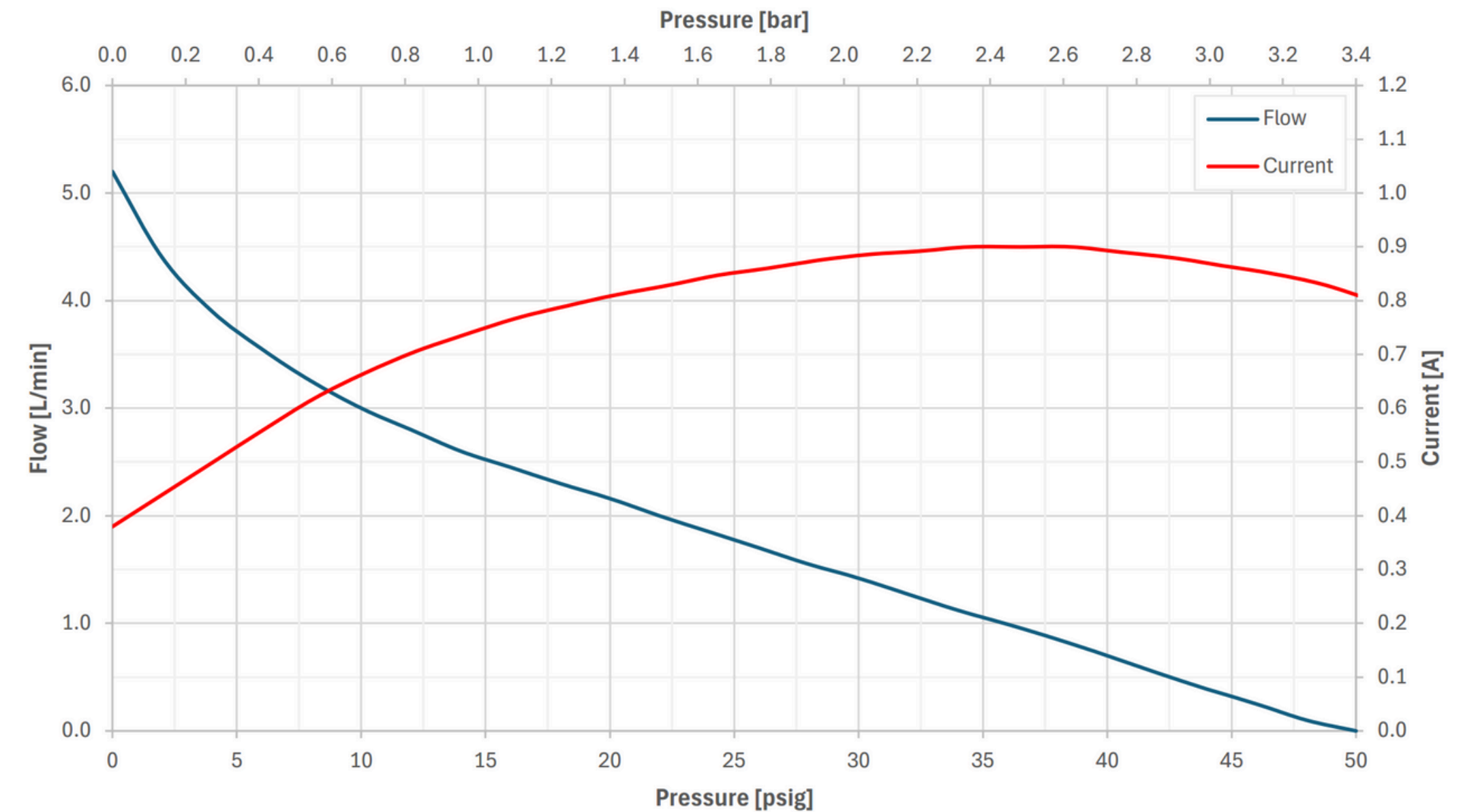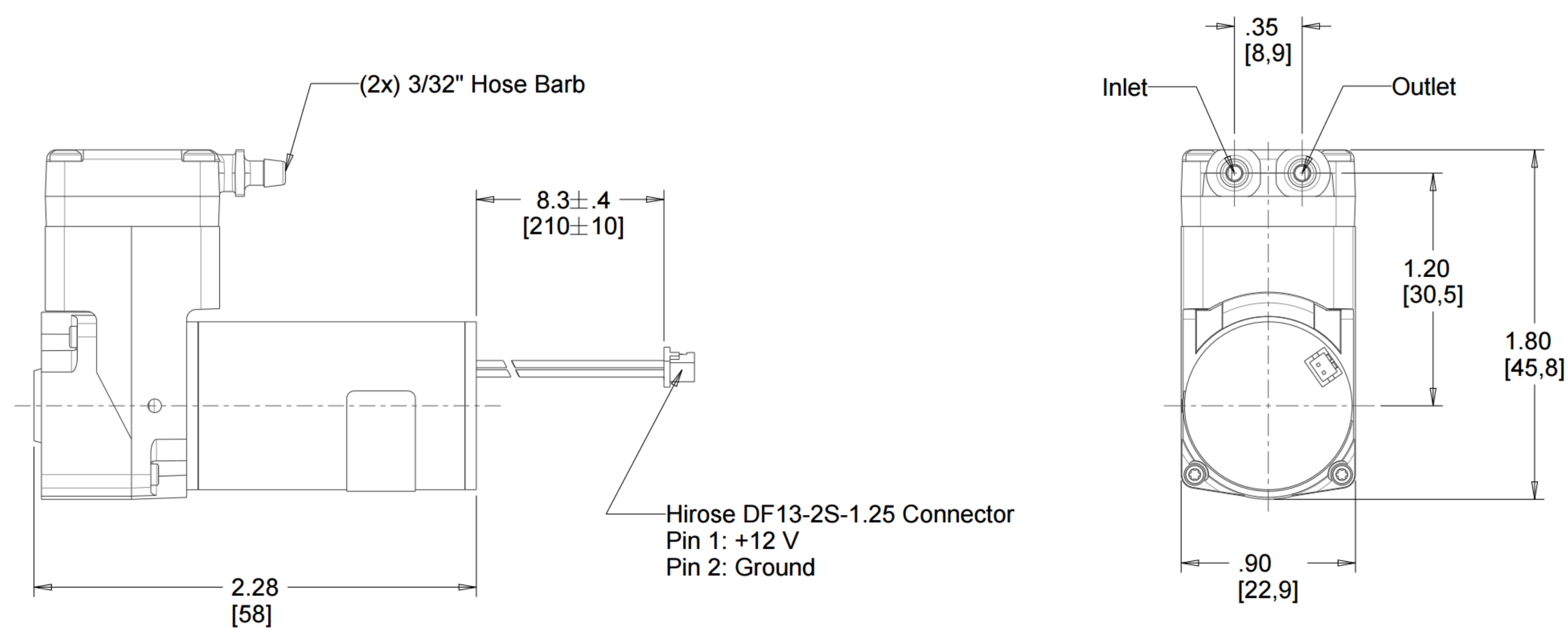
* Dimensions are in inches [mm]. DD6112201 shown. 2.28 [58] dimension is motor selection dependent.
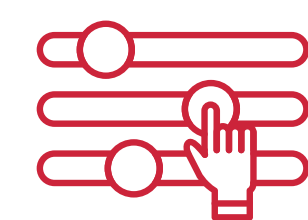
Available Customizations

Motor types:
Brushed or Brushless DC

Valve and diaphragm materials

Optional eccentrics
for flow/pressure tuning