



4000 SERIES MICRO DIAPHRAGM PUMP

Ultra-compact. High-performance. Unmatched efficiency.

Product Snapshot



Max flow: up to **360 mL/min**



Battery runtime: up to **31 hrs**



Volume: **Smallest** footprint in class



Dual function: **Vacuum & Compression**



Operating voltage: **3.7 to 4.2 VDC**

Key Features



Extremely compact:
Designed for miniaturized systems



Outstanding output:
Maintains up to 360 mL/min



Low current draw:
Efficient for battery-powered devices



Dual-use:
Works in compression and vacuum modes



Customizable:
Voltage and mounting options.

Technical Specifications

Parameter	Value
Operating RPM	4000 to 7000 RPM
Flow Rate Range	250 to 360 mL/min
Unrestricted Max Flow	520 to 550 mL/min @ ~45 mA
Max Pressure	20 psig (1.4 bar)
Max Vacuum	18 inHg (400 mbar abs)
Operating Voltage	3.7 to 4.2 VDC
Max Current Draw	112 mA
Ambient / Media Temperature	41° F to 104° F (5° C to 40° C)
Weight	0.5 oz (15 g)
Wetted Materials	PC, Neoprene, Silicone

Battery Runtime

Battery (mAh)	Runtime
2000	17:51
2500	22:19
3000	26:47
3500	31:25

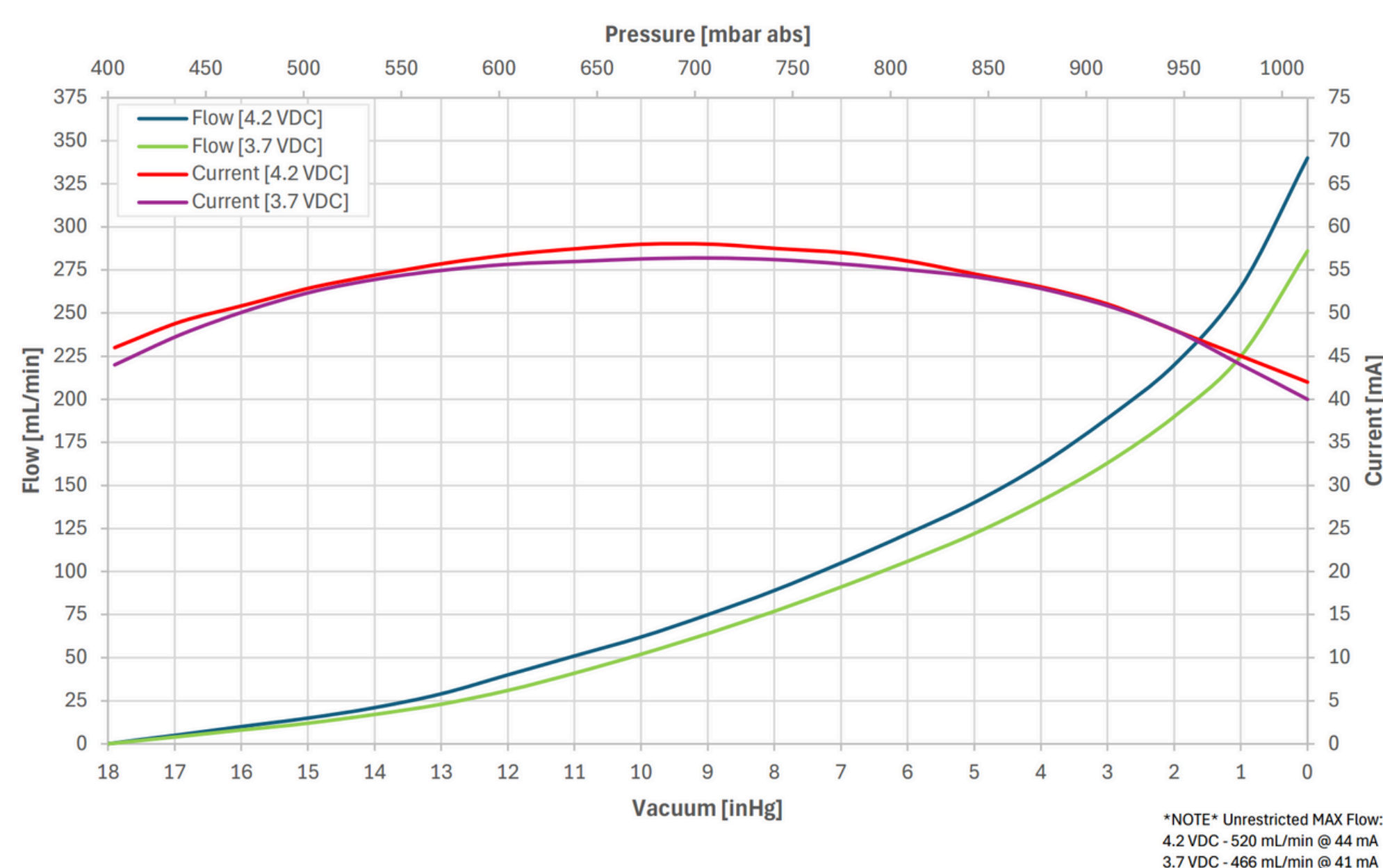
The **4000 Series** delivers exceptional performance in the **smallest package** Dynaflo has ever engineered – making it the ideal solution for compact, battery-powered systems **where space, efficiency, and reliability are critical.**



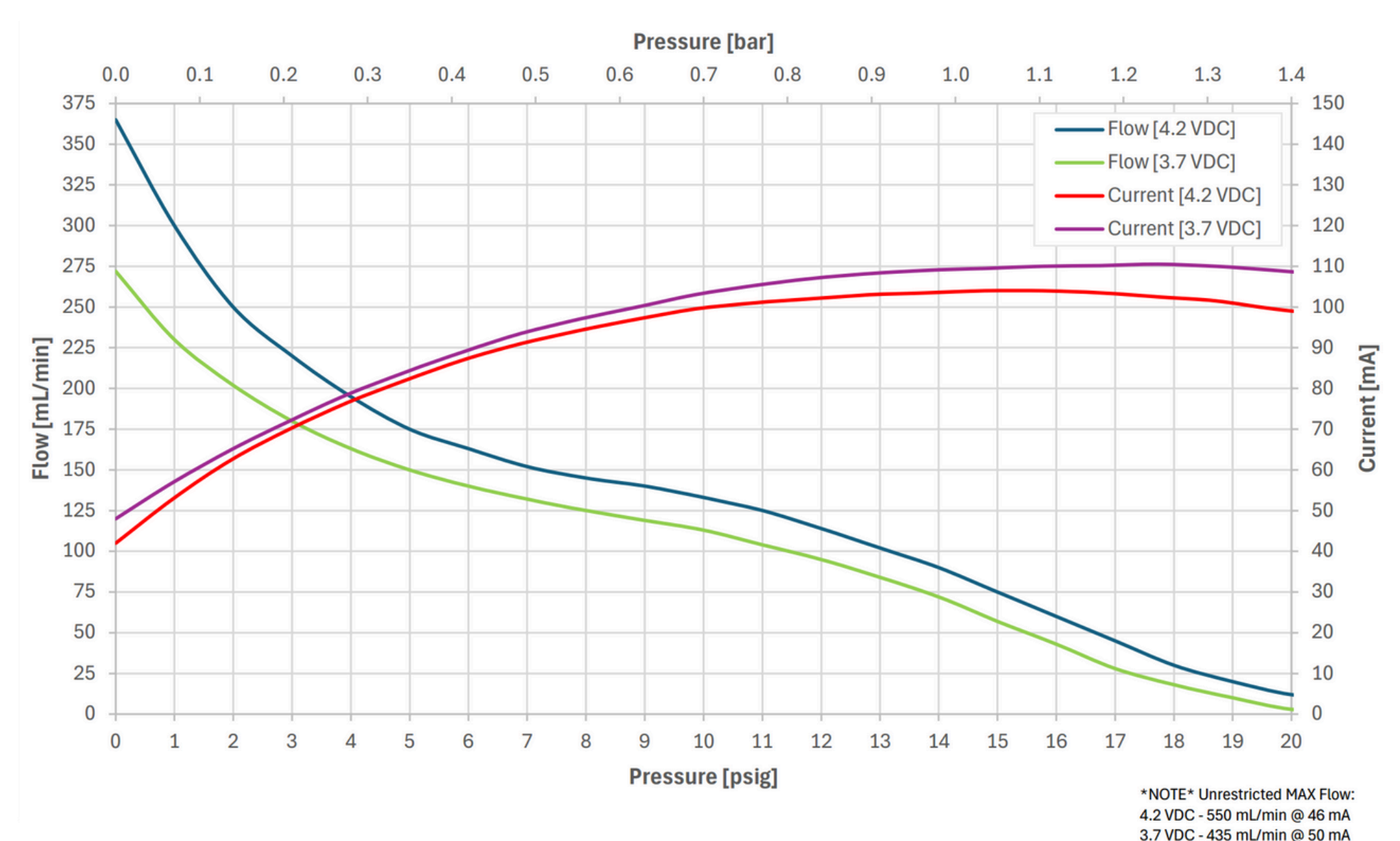
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Flow Curves

Vacuum, DD4112200

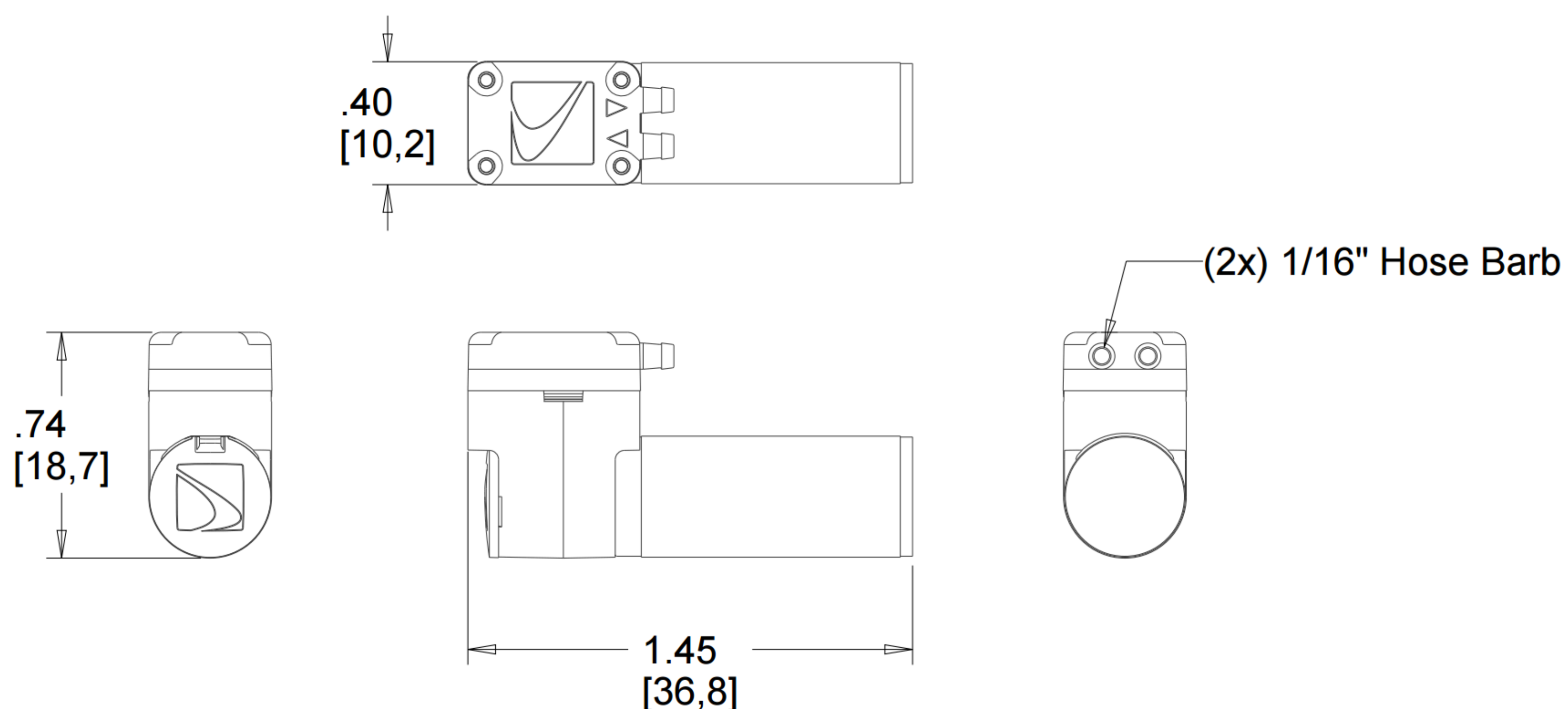


Compression, DD4112200



Mode	Voltage	Max Flow (mL/min)	Max Current (mA)
Compression	4.2 VDC	550	46
Compression	3.7 VDC	435	50
Vacuum	4.2 VDC	520	44
Vacuum	3.7 VDC	466	41

Dimensions



*Dimensions are in inches [mm]. DD4112200 shown. 1.45 [36,8] dimension is motor selection dependent.