PHV Series Booster Valve

PHV10RNC-E311E-3C024



Clippard's PHV Series booster valve delivers high performance in a compact, pressure-piloted design. Engineered for manifold mounting, it drives output flows up to 400 l/min at 100 psig with a fast 10 ms nominal response. Its low power consumption ensures efficient, cool-running operation—ideal for dense assemblies and space-constrained environments. The PHV integrates seamlessly into control systems across medical, packaging, and industrial automation applications, offering reliable actuation and high flow without compromising energy efficiency or speed.

Accessories	Connector Cables: 12" (300 mm), 20" (500 mm), 40" (1,000 mm)
Connector	In-line (standard for 10 mm)
Data Sheet	Technical Data Sheet
Function	3-way normally-closed
Manifolds	1/8" NPT, G1/8
Material, Body	Nickel-Plated Brass, Stainless Steel, Nylon
Material, Seals	FKM, polyurethane, NBR, HNBR
Max Flow	400 l/min @ 100 psig (7 bar)
Medium	Air
Operating Pressure Range	30 to 100 psig (2 to 7 bar)
Operating Temperature Range	30 to 122°F (-1 to 50˚C)
Orientation	Right (coil up, standard)
Pilot	10 mm
Ports	Manifold Mount
Response Time	10 ms nominal
Valve	10 mm ISO Series
Voltage	24 VDC (standard)
Voltage Tolerance	±10%
Weight (lbs.)	0.0480

ORDERING INFORMATION

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Orientation

R	Right *(coil up—standard)*
L	Left *(coil down—available)*

Pilot

10	10 mm
15	15 mm*

Valve

If 10 mm pilot is selected:	11E-3C	10 mm ISO Series
If 15 mm pilot is selected:	15D-1W	15 mm, 0.032" (0.8 mm) Orifice

Voltage

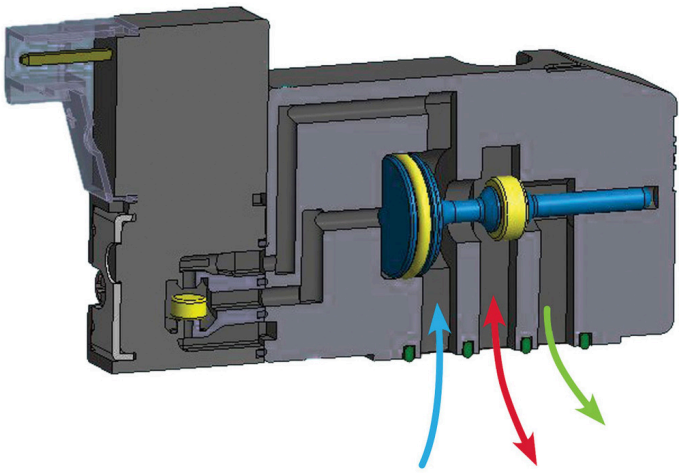
012	12 VDC
024	24 VDC

**Additional connectors and voltages available. See website or contact Clippard.*

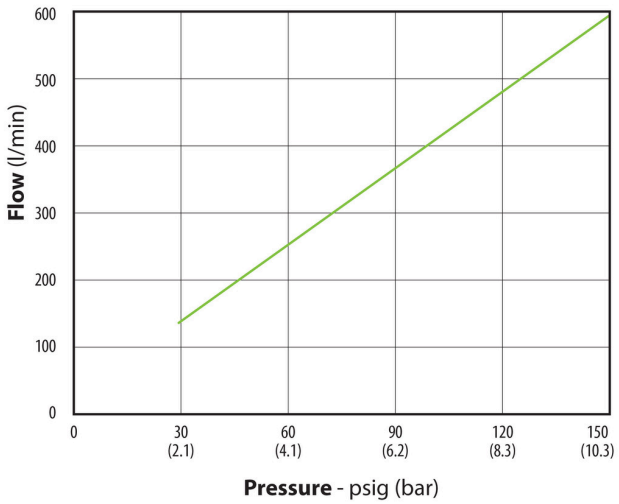
MANIFOLDS

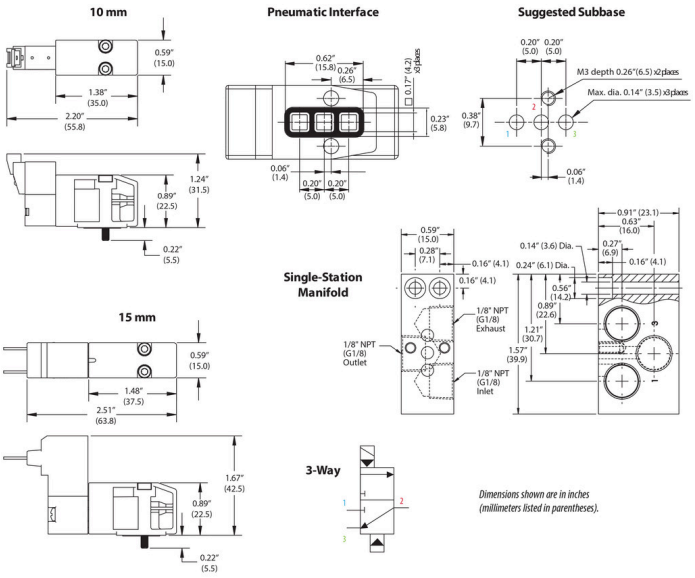
EPHVM-01	Single-Station, 1/8" NPT
M-EPHV-01	Single-Station, G1/8

Example Part Number:
PHV15RNC-E315D-1W-012



TYPICAL FLOW




10 mm
Pneumatic Interface
Suggested Subbase
0.59" (15.0)
1.38" (35.0)
2.20" (55.8)
1.24" (31.5)
0.89" (22.5)
0.22" (5.5)
0.62" (15.8)
0.26" (6.5)
0.17" (4.2) x2places
0.23" (5.8)
0.06" (1.4)
0.20" (5.0)
0.20" (5.0)
0.20" (5.0)
0.20" (5.0)
M3 depth 0.26"(6.5) x2places
Max. dia. 0.14" (3.5) x3places
0.38" (9.7)
0.06" (1.4)
Single-Station Manifold
0.59" (15.0)
0.28" (7.1)
0.16" (4.1)
0.16" (4.1)
1/8" NPT (G1/8) Exhaust
1/8" NPT (G1/8) Outlet
1/8" NPT (G1/8) Inlet
0.14" (3.6) Dia.
0.24" (6.1) Dia.
0.91" (23.1)
0.63" (16.0)
0.27" (6.9)
0.16" (4.1)
0.56" (14.2)
0.89" (22.6)
1.21" (30.7)
1.57" (39.9)
15 mm
0.59" (15.0)
1.48" (37.5)
2.51" (63.8)
1.67" (42.5)
0.89" (22.5)
0.22" (5.5)
3-Way
1
2
3
Dimensions shown are in inches (millimeters listed in parentheses).