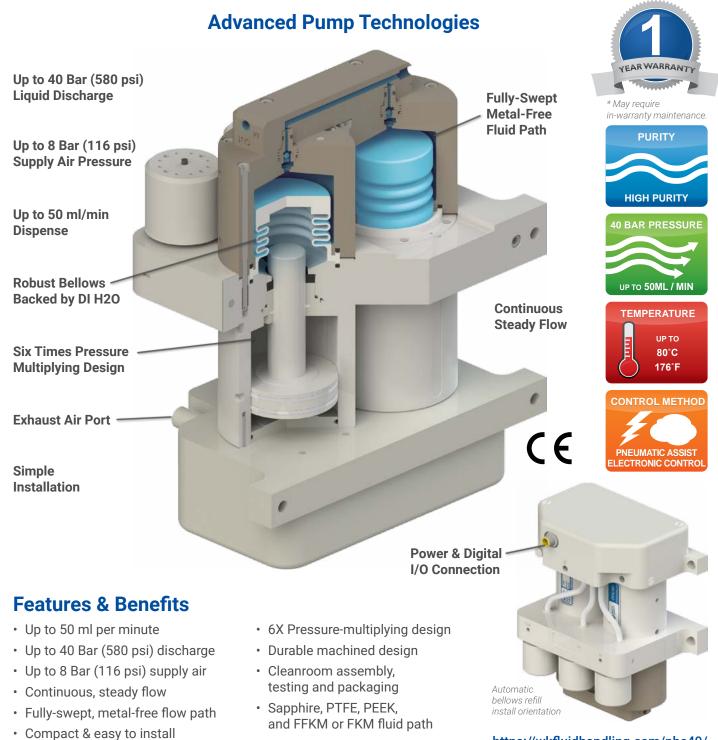


# **PHC SERIES PUMPS**

## **High-Pressure Pumps for Continuous Flow**

PHC40 electronically-controlled pneumatic metering pump dispenses up to 50 ml per minute. It is capable of 40 Bar (580 psi) liquid discharge and up to 8 Bar (116 psi) air supply pressures. It features fully-swept, metal-free flow paths to prevent ionic contamination.



### https://wkfluidhandling.com/phc40/



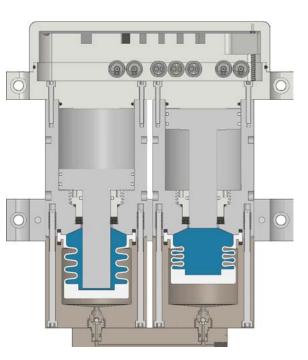
Version: 2.0.2 | Published: 9 Jan 2018 | P. 1 Specifications subject to change without notice



# PHC SERIES PUMPS

### Operation

PHC40 high-pressure pump provides continuous flow by overlapping pressures between two chambers, which eliminates pressure spikes in the fluid line. The pump is controlled by an on-board controller that operates air pressure through four internal solenoid valves. The valves route the air to refill each piston and dispense at the appropriate time. The pump multiplies the supplied air pressure by six times to obtain the high-pressure fluid output. An external digital signal is used to turn the pump on /off, and digital outputs are transmitted to enable the user to monitor the pump's operation.

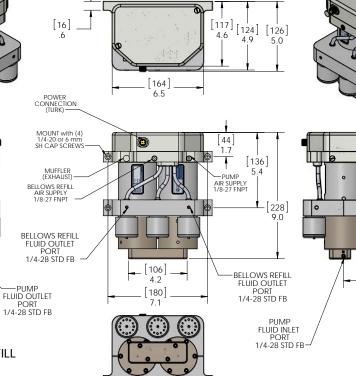


### **Specifications**

Model		PHC40
Max Flow Rate		50 ml/min
Max Discharge Pressure		40 bar (580 psi)
Max Air Pressure		× 1 /
		8 bar (116 psi)
Max Cycles Per Minute		≤ 5
Air Consumption		1-3 SCFM
Fluid Connection		1/4 in-28 flat bottom or M6 flat bottom
Fluid Inlet Pressure		2 bar (30 psi)
Fluid Path Materials		Sapphire, PEEK, PTFE, FFKM or FKM
Fluid Temperature		0-80°C (32-176°F)
Hydraulic Actuation Fluid		DI Water
NEMA Classification		5
Weight		1.7 kg (3.7 lb)
Solenoid Valves	24V Manifold Valves 0.7 CV	
Turck Connector	5 Pin O-ring Sealed	
On Board Controller	Power: 24 VDC Max Power Consumption: 12 Watts Internal I/O: • Four 24 VDC Valve outputs External I/O: • One PNP Compatible Input • Two PNP Compatible Signal Output	

#### **Dimensions** Dimensions in mm (inches)

[223] 8.8



[196] 7.7



Contact us for copy exact details.

PHC40-2-B01-E3-OR1 ① ① ② ③ ④

**Pump Type** PHC40 = High-pressure

1 Ports 2 = Two chambers

(2) Fitting Style B01 = M6 Flat Bottom B02 = 1/4 - 28 Flat Bottom

③ Electrical Connection

E1 = 15 ft PVC Jacket Cable E3 = Turk Connector E4 = Turk Connector with

mating 6 m pigtail

④ O-ring Material

[210]

8.3

[51]

2.0

OR1 = FKM OR2 = FFKM

### https://wkfluidhandling.com/phc40/

WK

[64] 2.5

PHC40-2

With AUTO BELLOWS REFILL

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