

Pump Performance System - add-on 8180035 (46107-10)

FESTO

LabVolt Series

Datasheet



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General Description

The Pump Performance System is an add-on to the Single-Pump Systems. It consists of a digital flowmeter, a digital pressure gauge, and accessories required to assess the performance of centrifugal pumps in various contexts such as cavitation and air ingestion among others.

The project-based pedagogical approach makes it possible to contextualize the tasks performed by the learner. The exercises develop advanced skills required for workers interacting with any industrial process involving pumps.

Features:

- Clear pump cover for direct observation of cavitation
- Additional impeller to observe the effects of a change in diameter
- Industrial-grade components for a realistic learning experience
- Single tool to secure components on the worksurface for quick assembly
- 5S-type storage for all components in lockable drawers to keep the workspace tidy and organized

Learning outcomes:

- Trace, read and compare pump curves at various speeds.
- Evaluate the efficiency of a pump after changing its impeller.
- Compare major pump output control methods.
- Describe what causes cavitation and observe its effects.
- Describe what causes air ingestion and observe its effects.

List of Equipment

Qty	Description	Model number
1	Magnetic-inductive Flowmeter Assembly _____	8180048 (47410-00)
1	Digital Pressure Gauge Assembly _____	8180049 (47411-00)
1	Pump Performance Accessories _____	8180050 (47419-00)

Equipment Description

Magnetic-inductive Flowmeter Assembly 8180048 (47410-00)



The Magnetic-inductive Flowmeter Assembly is used to measure the water flow rate in a piping system.

Features:

- Quick connect cam lever couplings for easy hose and pipe connections
- Quick connect push-in fitting for easy pneumatic tubing connection

Digital Pressure Gauge Assembly 8180049 (47411-00)



The Digital Pressure Gauge Assembly is used to measure pressure in a piping system.

Features:

- Tilted dial to facilitate reading
- Quick installation of mounting base to worksurface with single rotating knob
- Quick connect push-in fitting for easy pneumatic tubing connection

Pump Performance Accessories 8180050 (47419-00)



The Pump Performance Accessories consists of a clear pump cover for observation of cavitation in the centrifugal pump, one additional impeller to observe the effects of a change in diameter on pump performance, a connecting cable to supply power to the Magnetic-inductive Flowmeter Assembly and plastic tubing.

Reflecting the commitment of Festo Didactic to high quality standards in product, design, development, production, installation, and service, our manufacturing and distribution facility has received the ISO 9001 certification.

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