# Positive-Displacement Pumps Training System - add-on
8180037 (46107-30)

**LabVolt Series**

Datasheet

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## General Description

The Positive-Displacement Pumps package is an add-on to the Pump Performance package. It consists of an external gear pump, two pressure relief valves and the required accessories.

Through practical tasks and projects, learners will be introduced to these pumping circuits to develop installation, operation, maintenance, and troubleshooting skills.

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

Features:

- Mounting base of pump allows easy installation and alignment.

- Choice of fittings makes it impossible for students to forget the pressure relief valves in their setups.

- Two pressure relief valves are included to ensure safety and prevent equipment damage in case of overpressure.

- 5S-type storage for all components in lockable drawers to keep the workspace tidy and organized.

Learning outcomes:

- Explain the basic operating principles of an external gear pump, and its main parts.

- Set up an external gear pump circuit and start it.

- Draw the pumps curve of an external gear pump under various conditions.

- Perform the inspection, lubrication, and maintenance of an external gear pump.

- Disassemble and re-assemble an external gear pump.

## List of Equipment

| Qty | Description | Model number |
|---|---|---|
| 1 | Positive-Displacement Pump Accessories | 8180055 (47430-00) |
| 1 | External Gear Pump | 8180056 (47431-00) |


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# Equipment Description

## Positive-Displacement Pump Accessories 8180055 (47430-00)

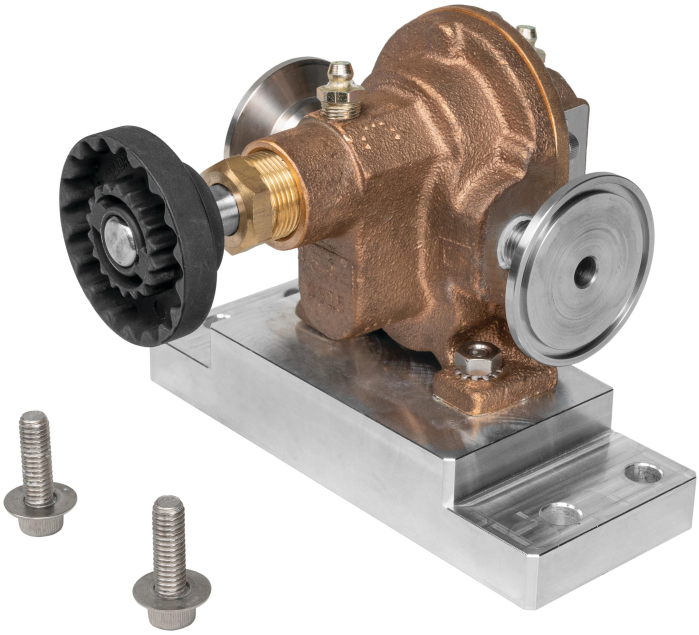
This model, included in the Positive-Displacement pumps Package, contains the accessories needed to connect the External Gear Pump.

Features:

- Choice of fittings makes it impossible for students to forget the pressure relief valves in their setups.

- Two pressure relief valves are included to ensure safety and prevent equipment damage in case of overpressure.

## External Gear Pump 8180056 (47431-00)



This model, included in the Positive-Displacement Pumps package, contains and external gear pump and its mounting base.

Features:

- Mounting base allows easy installation and alignment.

- Choice of fittings makes it impossible for students to forget the pressure relief valves in their setups.

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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**Festo Didactic SE**

Rechbergstrasse 3
73770 Denkendorf
Germany

P. +49(0)711/3467-0
F. +49(0)711/347-54-88500

**Festo Didactic Inc.**

607 Industrial Way West
Eatontown, NJ 07724
United States

P. +1-732-938-2000
F. +1-732-774-8573

**Festo Didactic Ltée/Ltd**

675 rue du Carbone
Québec QC G2N 2K7
Canada

P. +1-418-849-1000
F. +1-418-849-1666

**www.labvolt.com**

**www.festo-didactic.com**