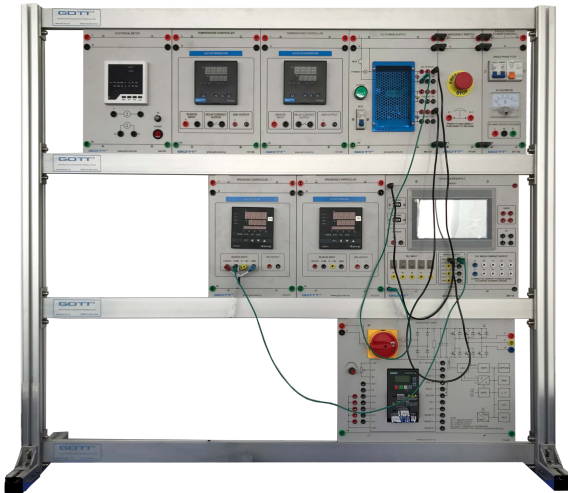


EXPERIMENTS WITH A GEAR PUMP

Model Number : GOTT-EGP-01



DESCRIPTION

- Gear pumps belong to the group of positive displacement pumps with a continuous flow. Two counter-rotating gears transport the medium. The transported medium is between the housing and the tooth spaces. The pulsation-free flow increases linearly with speed. These pumps are particularly suitable for the generation of medium-high pressure at low flow rates.

FEATURES

- GOTT-EGP-01 provides the basic experiments to get to know the operating behaviour and the important characteristic variables of gear pumps
- GOTT-EGP-01 features a closed oil circuit contains a gear pump with variable speed via frequency converter and a transparent tank
- Flow rate and head are adjusted via a needle valve and overflow valve
- is fitted with sensors for Sensors for temperature and pressure at inlet and outlet of the pump
- All the advantages of software-supported experiments and evaluation are offered by the GOTT software and the microprocessor. The connection to a PC is made by USB.

TECHNICAL SPECIFICATIONS

- Functioning and operating behavior of an a gear pump
- Closed oil circuit contains a gear pump with variable speed via frequency converter and a transparent tank
- Transparent housing for observing the pump gear
- Needle valve for adjusting the flow rate
- Overflow valve for adjusting the head
- Sensors for temperature and pressure at inlet and outlet of the pump
- Oval wheel meter as flow sensor
- GOTT software with control functions and data acquisition via USB under Windows 7, 8.1, 10

Gear pump

- Power consumption: 370W
- nominal speed: 100...750min-1
- max. flow rate: 32cm³ per revolution
- max. head: approx. 80m

Measuring ranges

- pressure (inlet): ±1bar
- Pressure (outlet): 0...5bar
- flow rate: 0...25L/min
- temperature: 0...100°C

230V, 50Hz, 1 phase

PC with Windows

EXPERIMENT TOPICS

- Principle of operation of a gear pump
- Recording of pump characteristics
- Relationship between head and speed
- Effect of pressure limitation
- Determination of efficiencies

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- GOTT software CD + USB cable

Manuals :

- (1) All manuals are written in English.
- (2) Model Answer
- (3) Teaching Manuals

General Terms :

- (1) Accessories will be provided where applicable.
- (2) Manual & Training will be provided where applicable.
- (3) Design & specifications are subject to change without notice.
- (4) We reserve the right to discontinue the manufacturing of any product.

Warranty :

2 Years

ORDERING INFORMATION :

ITEM	MODEL NUMBER	CODE
EXPERIMENTS WITH A GEAR PUMP	GOTT-EGP-01	133-103

*Proposed design only, subject to changes without any notice.