

**DEVICE SET HYDRAULIX 203 FOR HYDRAULIX 200/300 WORKSTATION  
"ON/OFF HYDRAULICS – TROUBLESHOOTING, MANUAL OPERATION"**







**Material number R901545892**

Material short text GERAETE-SET TS-HS 203-3X

The device set comprises components with installed defects for exercise setups for the systematic troubleshooting in hydraulic systems.

The device set matches the exercise book "On/off hydraulics – Troubleshooting, manual operation".

The exercises with the listed components can be carried out at the Hydraulix 200 workstation as well as at Hydraulix 300 workstation.

Pos.	Component	Mat.-no.	Quantity	Image
1	4/3 directional control valve 4WMM6E5X manipulated	<b>R901530323</b>	1	
2	Pressure relief valve DBDH6G1X/100 manipulated	<b>R961006549</b>	1	
3	Non-return valve S6A05-1X/, manipulated	<b>R901467464</b>	1	
4	Sight glass	<b>R961006596</b>	1	

\* Items 2 to 3 are not separately available

The recommended accessories are listed at Rexroth Store in the category Academy/Systems/Hydraulics device sets.

# On/off hydraulics – Troubleshooting

The contents and targets of this learning topic provide support on how systematic troubleshooting in hydraulic systems can be imparted in a targeted manner. The troubleshooting refers to hydraulic circuits with manual-operated directional control valves, pressure control valves and non-return valves. The successful completion of the practical exercises provides for practice-oriented training in the different training levels of on/off hydraulics.

## Exercise books

The exercise books are tailored to the device sets. They build on the contents of the device sets "On/off hydraulics – Manual operation (BIBB, A-H)" and "On/off hydraulics – Electrical operation (BIBB, A-H)" and go deeper into the topics of commissioning and troubleshooting.

The described exercises and tasks provide basic information and methods. The setup is structured in a uniform manner and provides the step-by-step description for completion of the individual exercises.

## Teaching and learning document in one book

- ▶ Exercises with solutions: more far-reaching trainer information and contents such as measured values, calculation results, etc.
- ▶ Exercises: independent completion of calculations and measured value tables, etc.

## Learning content

With the help of logically structured, practice-related exercises, the trainee shall learn the following:

- ▶ understand physical laws of hydraulics such as pressure difference, opening cross-section and flow,
- ▶ get to know and apply the legal regulations and safety provisions,
- ▶ understand the function of basic hydraulic circuits,
- ▶ get to know the systematic troubleshooting with different error types (adjustment errors, system errors).

## The following exercises are included

No.	Exercise	Industrial applications
1	Hydraulic load holding 1	Press with a pressing load
2	Hydraulic load holding 2	Hydraulic lift
3	Workpiece fixation	Press-in device for joining workpieces
4	Material feed of a press	Workpiece feed of a press by means of a swivel arm and a hydraulic motor
5	Motion of a lock gate	Opening and closing a lock gate by means of hydraulic cylinders
6	Hydraulic cylinder with pulling load	Storm bulkhead of a barrage
7	Lifting device	Pallet stacker

**EXERCISE BOOKS**  
**"ON/OFF HYDRAULICS – TROUBLESHOOTING"**



◀ Exercise book example

	Language	Material number	Material short text
Exercises with solutions (trainer's manual)	DE	<b>R901485990</b>	UEBUNGSBUCH TW-HY-LH-2/X 204DE
Exercises with solutions (trainer's manual)	EN	<b>R901485992</b>	EXERCISE BOOK TW-HY-LH-2/X 204EN
Exercises (trainee's manual)	DE	<b>R901485991</b>	UEBUNGSBUCH TW-HY-SH-2/X 204DE
Exercises (trainee's manual)	EN	<b>R901485993</b>	EXERCISE BOOK TW-HY-SH-2/X 204EN