

2024-05-16

Signature:

## Operating Instructions

According to the  
Betriebssicherheitsverordnung

UNIVERSITÄT  
DUISBURG  
ESSEN

Offen im Denken

Faculty of Chemistry

Institute: AAC

Work place: AAC Labs

### EQUIPMENT

#### Transport gas cylinders

#### DANGERS FOR HUMANS AND ENVIRONMENT



- Danger of bursting due to pressure increase during heating
- Danger of suffocation and lack of oxygen in case of gas leakage
- Danger of valve rupture if the cylinder falls.
- 50 L gas cylinders weigh at least over 50 kg.
- Please observe the BA of the intermediate gas storage/garage.

#### PROTECTIVE MEASURES AND RULES OF CONDUCT



- Always wear a lab coat, protective goggles and cold-protective gloves.
- Always transport gas cylinders with two people.
- Only use the freight lift to transport the gas cylinders.
- Do not forget the warning!
- Never transport persons and gas cylinders (neither full nor empty) together in the goods lift.
- Transport only with the cap screwed on in the gas cylinder trolley.
- Chain the pressurised gas cylinders.
- Use protective caps for the shoes when changing cylinders in the cabinet. They are located on the trolley.
- Follow the procedure for changing cylinders.
- Do not throw gas cylinders.
- Never open the valve by force.
- Never oil the valve.
- Special gas require separate instructions.
- Mark damaged cylinders.

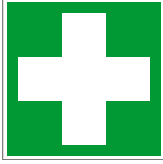
#### RESPONSE TO MALFUNCTIONS



Shut down device immediately, faults must be reported to:

- Constanze Dietrich Tel.: 1834559
- Dr. Sven Meckelmann Tel.: 1833295
- Prof. Dr. Oliver Schmitz Tel.: 1833950

## BEHAVIOR IN CASE OF ACCIDENT / FIRST AID



- Keep calm.
- Call first responders.
- Emergency call: 0112
- Report accident.

## MAINTENANCE / DISPOSAL

- Maintenance only by Air Liquide