

# Instruction Manual

## Compressed Air Service Unit

51362



Illustration similar, may vary depending on model

Please read and follow the operating instructions and safety information prior to initial operation.

Technical changes reserved!

Illustrations, functional steps, and technical data may deviate insignificantly due to continuous further developments.



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## Introduction

Thank you for choosing to purchase this quality product. To minimise the risk of injury, we ask you to always take some basic safety precautions when using this product. Please read this operating manual carefully and make sure that you understand it.  
Keep these operation instructions in a safe place.

## Use





### *Intended use*

Use the pressure regulator for compressed or liquefied gases discharged under pressure. The pressure reducer reduces intake pressures of up to 200 bar to the desired pressure value, maintaining it constant. Thus, the pre-set flow rate is ensured.

### *Improper use*

- Do not use the pressure regulator with gases in liquid state.
- Do not use unstable or corrosive gases.

## Safety instructions

- The pressure regulator for gas cylinders must not be changed or modified.
- No adaptors may be used between the gas cylinder valve and pressure regulator.
- If operated or used improperly, the device can cause dangers to the user and other persons and damages to the device.
- The local prescriptions about the proper use of the device must be obeyed.
-   All parts coming into contact with oxygen must stay free of oil and grease. **Fire and explosion hazard!**
-   Smoking or open flames near any gas supply system is strictly forbidden. **Fire and explosion hazard!**
- Always open the valve slowly.
- The pressure regulator must not be exposed to temperatures beneath  $-30\text{ °C}$  or above  $+60\text{ °C}$ .
- The gas cylinder must be protected from downfalls.

**Attention!** Obey the warning precautions found on the stickers on the device!



## Technical specifications

The system pressure range, average temperature range, and pressure regulation range for the operation of the air filtering unit should match the following parameters:

<b>Max. operating pressure (bar)</b>	10
<b>Ambient temperature and temperature of liquids (°C)</b>	5–60
<b>Recommended oil</b>	Vacuum pump oil
<b>Pressure regulation range (bar)</b>	0.5–8.5
<b>Valve type</b>	Overflow valve

<b>Oxygen intake pressure (bar)</b>	<b>Flow velocity (m<sup>3</sup>/h) with outlet pressure (bar)</b>				
	1	2.5	4	10	20
40	15	30	40	50	60
20	15	20	25	30	—
10	15	15	15	—	—
5	10	10	10	—	—

The pressure regulator corresponds to the newest DIN/EN/ISO 2503 standards. In case of special versions, these data serve as reference.

<b>Acetylene intake pressure (bar)</b>	<b>Flow velocity (m<sup>3</sup>/h) with outlet pressure (bar)</b>				
	0.5	1	1.2	—	—
18	5	6	8	—	—
10	4.5	5.5	6.5	—	—
4	3	4	5	—	—
2	1.5	2	3	—	—

The following conversion values are applicable for other gases:

- Nitrogen (N): 1.05
- Hydrogen (H): 4.00
- Argon (Ar): 0.90
- Carbon dioxide (CO<sub>2</sub>): 0.85



## Assembly

1. Before assembling, clean the threads and lines. Make sure that no contaminants may get into the pressure line.
2. Make sure that the air flows into the direction of the arrow found on the product. Before use, re-check all connections.
3. **Pressure regulation:** Pull the knob upwards and turn it clockwise to increase the pressure. Turn the knob counter-clockwise to reduce the pressure. Once the desired pressure is set, press the knob to lock it.
4. **Drain:** The water can be drained automatically when there is no pressure build-up. If pressure has built up, the water is drained by pressing the water drain knob. After draining the water, release the knob to stop drain. In case the water level exceeds its maximum, immediately drain the water by hand, for otherwise the drain line might deteriorate.
5. **Oil quantity regulation:** The oil drain is reduced by turning the needle valve clockwise. The oil drain is increased by turning the needle valve anti-clockwise. Once the needle valve is adjusted, the oil drain adapts to the air flow.
6. **Re-filling:** Re-filling can be done without interrupting the air flow. Untighten the oil screw counter-clockwise to re-fill. The level must not exceed 80 %. Re-tighten the oil screw after re-filling. Do not remove the oil container itself for re-filling.

## Maintenance

1. **Clean/replace the filter:** Remove the filter, let the air escape from the inside to outside. The filter is now operational again.
2. **Transparent plastic cap:** Remove the plastic cap to clean it with a dry and clean cloth. Do not use chemical products that might with plastics.

## Manufacturer's codes

<b>A2000</b>	01
<b>Model</b>	Threaded connection (RC)
<b>AC FRL combination</b>	M5-M5
<b>AF filter</b>	01-1/4
<b>AW filter regulator</b>	02-1/4
<b>AR regulator</b>	03-3/8
<b>AL lubricator</b>	04-1/2 06-3/4 10-1

## Important note!

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