

Аксессуары для автоклав CARL ROTH

Технические характеристики

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Autoclave accessories



Accessories fine control and check valve

ROTH SELECTION.

Made of stainless steel. For high-pressure laboratory autoclaves. With 6 mm swagelock tube connection on both sides. Multi-positioning range. Pressure range up to max. 210 bar, temperature range up to max. +205 °C.

Delivery incl. valve with thread adapter made of stainless steel (6 mm pipe to 1/4").

Pic.	Type	Art. No.	Pack Qty.	
(3)	Fine control valve and check valve	H745.1	1 unit(s)	

Accessories

Carl ROTH.

Tube connector fitting for fine control and check valve

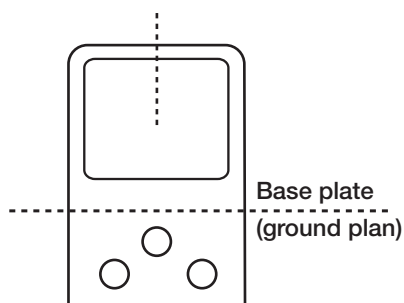
Made of stainless steel. For fine control and check valve (output side). Matches hose inner diameter 1/4".

Type	Art. No.	Pack Qty.	
Tube connection fitting AD 6.35 mm	H746.1	1 unit(s)	

Thread adapter for fine control and check valve

Made of stainless steel. (6 mm pipe to 1/4").

Type	Art. No.	Pack Qty.	
Thread adapter 6 mm pipe to 1/4"	P437.1	1 unit(s)	



Accessories retaining plate

Carl ROTH.

Type	Art. No.	Pack Qty.	
Base plate 41, as mount for screwing autoclave models 0 and I	2072.1	1 unit(s)	
Base plate 55, as mount for screwing autoclave model II	2074.1	1 unit(s)	



Accessories pressure gauge

ROTH SELECTION.

The parts that have contact with the medium (thread adapter and spring pipe) are made of stainless steel. The white face has black numbers. Spring pipe measuring system. With composite glass pane (safety glass). For a maximum medium temperature up to +100 °C. Thread adapter G1/2", at radial bottom. Outer Ø 100 mm.

Pic.	Type	Art. No.	Pack Qty.	
(4)	Display pressure gauge up to 160 bar	2031.1	1 unit(s)	
	Display pressure gauge up to 250 bar	2036.1	1 unit(s)	



Accessories bursting disc

Carl ROTH.

Use to seal the bursting disc **pure silver gaskets!**

Working temperature up to +300 °C. Made of stainless steel.

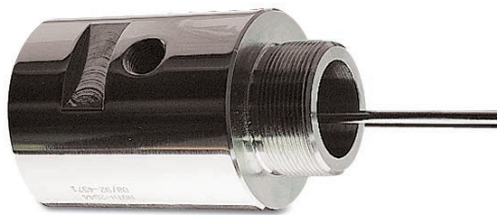
Technical specifications:

Art. No.	2199.1	2203.1	8135.1	2204.1
Ø Internal	8 mm	28 mm		
Ø ext.	14 mm	40 mm		

Type	Response pressure (bar)	Art. No.	Pack Qty.	
8.100 E	100	2199.1	1 unit(s)	
28.100 E	100	2203.1	1 unit(s)	
28.060 E	60	8135.1	1 unit(s)	
28.200 E	200	2204.1	1 unit(s)	



Autoclave accessories



Accessories sampling

Carl ROTH.

Adapter with welded supply pipe. For inserting or removing gaseous or liquid samples.

- Material: V4A stainless steel 1.4571
- Working temperature: max. +300 °C
- Working pressure: max. 200 bar

Type	Art. No.	Pack Qty.	
Adapter with immersion tube 2 for 200 ml autoclave beaker	2043.1	1 unit(s)	
Adapter with immersion tube 3 for 250/300 ml autoclave beaker	2044.1	1 unit(s)	
Adapter with immersion tube 4 for 500 ml autoclave beaker	K457.1	1 unit(s)	



Accessories screw stopper

Carl ROTH.

For closing a connection opening G $\frac{1}{4}$ " or G $\frac{1}{2}$ " (e.g. adapter 2207.1).

Type	Art. No.	Pack Qty.	
Screw stopper type A for $\frac{1}{4}$ " connection opening	2052.1	1 unit(s)	
Screw stopper type C for $\frac{1}{2}$ " connection opening	2038.1	1 unit(s)	



Accessories temperature measurement

Carl ROTH.

The temperature sensor consist of a thermoelement with iron-copper thermocouple. The thermoelement is sealed in a protective pipe made of stainless steel 1.4541. It records the temperature directly inside the autoclave and transfers the values to the WRT 2000x temperature controller. The unit displays the relevant temperature value and controls the performance of the heating mantle. Only the pure silver gaskets offered should be used for sealing, as too frequent insertion and removal of the seals could unduly reduce the service life of the sensor.

Temperature sensor Fe-Cu-Ni, with pure silver gasket, Ø 1.5 mm

Type	Art. No.	Pack Qty.	
Temperature sensor for model II (200 ml), L 220 mm	2115.1	1 unit(s)	
Temperature sensor for model II (250/300 ml), L 280 mm	A880.1	1 unit(s)	
Temperature sensor for model IV (500 ml), L 330 mm	K456.1	1 unit(s)	

Accessories connection cable between heating mantle/sensor

Carl ROTH.

Type	Art. No.	Pack Qty.	
Connection cable between heating mantle/sensor, L 1.5 m	KCX9.1	1 unit(s)	

Autoclave accessories



Accessories gas injection

Carl ROTH.

Stainless steel-coated PTFE hose for possible connection to a pressure reducer and/or direct combination to the high-pressure hose of a gas cylinder, in combination with the gas cylinder connection (Art. No. 2066.1, please order separately).

Technical specifications:

Art. No.	H996.1	N246.1
Additional data	The operating pressure applies for working temperatures from +20 to +50 °C	
Ø Internal	4.8 mm	
Ø ext.	8 mm	
Min. burst pressure	825 bar	
Operating pressure	205 bar	
Temperature range	-55 to +235 °C	
Min. bend radius	51 mm	
Length	1.5 mm	
Wall thickness	1 mm	

PTFE hose with NPT inner thread 1/4"

On 6 mm pipe adapter, for gas cylinder connection (Art. No. 2066.1, please order separately).

Type	Art. No.	Pack Qty.	
PTFE high-pressure hose with NPT inner thread 1/4"	H996.1	1 unit(s)	

PTFE hose with NPT outer thread 1/4"

On 6 mm pipe adapters.

Type	Art. No.	Pack Qty.	
PTFE high-pressure hose with NPT outer thread 1/4"	N246.1	1 unit(s)	



Accessories gas cylinder connection

Carl ROTH.

Type	Art. No.	Pack Qty.	
For direct connection of the high-pressure hose to the gas cylinder (max. bursting disc 200 bar). Please specify type of gas.	2066.1	1 unit(s)	



Accessories stirrer head with permanent magnetic coupling, type MRK 10

ROTH SELECTION. Material: Stainless steel V4A 1.4435.

Absolutely gas tight. Vacuum-tight.

Technical specifications:

Art. No.	2359.1
Max. working pressure	200 bar
Operating temperature	max. 300 °C
Maximum speed	5,000 rpm
Max. temperature	300 °C
Max. viscosity	1,500 mPas
Ø ext.	44 mm
Additional data	Torque 20 N · cm
Height	172 mm

Delivery without adapter and gas treatment stirrer. Please order separately.

Type	Art. No.	Pack Qty.	
Magnetic stirrer head MRK 10	2359.1	1 unit(s)	

Accessories

Carl ROTH.

Adapter M 42 - M 30 for stirrer head with magnetic coupling

Adapter for connection of autoclave head II to magnetic stirrer head.

Type	Art. No.	Pack Qty.	
Adapter for magnetic stirrer head M 42 to M 30	2358.1	1 unit(s)	

Gas treatment stirrer for stirrer head with magnetic coupling

For use with stirrer head MRK 10. Made of stainless steel 1.4435 and PTFE. Ø 25 mm. Working temperature: max. +150 °C.

Type	Art. No.	Pack Qty.	
Gas treatment stirrer type 2 for 200 ml beaker, L 220 mm	3184.1	1 unit(s)	
Gas treatment stirrer type 3 for 250/300 ml beaker, L 299 mm	3189.1	1 unit(s)	
Gas treatment stirrer 4 for 500 ml beaker, L 380 mm	K458.1	1 unit(s)	



Autoclave accessories



Type	Heating output (W)	Suitable for	Art. No.	Pack Qty.	
10 S	200	Model I, 100 ml	KCX5.1	1 unit(s)	
20 S	300	Model II, 200 ml	KCX6.1	1 unit(s)	
30 S	400	Model II, 250/300 ml	KCX7.1	1 unit(s)	
50 S	600	Model IV, 500 ml	KCX8.1	1 unit(s)	

Accessories heating mantle with magnetic stirrer

Carl ROTH.

Specially designed for ROTH's high-pressure laboratory autoclaves. To ensure optimum distribution and use of heat, the heating mantles are precisely adapted to the dimensions of the individual autoclave beaker.

Features:

- High temperature stability
- Integrated magnetic stirrer with continuous speed adjustment without direct drive
- Heating and stirrer can be activated separately
- Temperature adjustment using the digital display and display of the actual temperature of the heating mantles
- **Integrated contact thermometer with full functionality. Option to directly connect the medium temperature sensor thermocouple type J/Fe-Cu-Ni (please order temperature measuring sensor and connection cable separately)**
- Due to the high working temperature range of up to 300 °C, temperatures of over 240 °C can be reached, depending on the medium and application
- Additional safety: Temperature limiter for the internal and external temperature sensors

Technical specifications:

Art. No.	KCX5.1	KCX6.1	KCX7.1	KCX8.1
Speed range	850 to 1500 rpm			
Operating temperature	+8 °C above room temperature up to 300 °C, continuously adjustable			
Setting accuracy	±1 K			
Control accuracy	±8 K			
Control accuracy with sensor	±3 K			
Control	Internally via heating mantle, externally via separate temperature gauge (available as an option)			
Width	220 mm			
Depth	250 mm			
Height	319 mm	334 mm	414 mm	455 mm
Mains connection	230 V, 50/60 Hz			

Delivery without temperature measuring sensor and connecting cable (please order separately).

Accessories:

Designation	Art. No.	Pack Qty.	
Temperature sensor for model II (200 ml), L 220 mm	2115.1	1 unit(s)	
Temperature sensor for model II (250/300 ml), L 280 mm	A880.1	1 unit(s)	
Temperature sensor for model IV (500 ml), L 330 mm	K456.1	1 unit(s)	
Connection cable between heating mantle/sensor, L 1.5 m	KCX9.1	1 unit(s)	

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