

Автоклавы CARL ROTH model 0, model I, model II, model IV

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Autoclaves



High-pressure laboratory autoclaves model 0

Carl ROTH. Material: Stainless steel 1.4571 (V4A).

50 ml/100 bar

Model 0 is the smallest autoclave in the ROTH range. Initially it was developed for preliminary tests at room temperature. **It is the steel test tube for all preliminary tests where work is carried out under high pressure. It is the ideal and cost-effective alternative for situations where glass carious tubes may present a danger.** Model 0 has a screw-on head with a threaded opening for fitting to equipment. The opening can be closed with a screw stopper. Sealed with PTFE gaskets (max. 180 °C) or pure silver gaskets (max. 300 °C).

Depending on the scope of the autoclave system, delivery times may apply!

Technical specifications:

Empty space	75 ml
Working volume	50 ml
Height	135 mm
Weight	835 g
Material	Stainless steel 1.4571 (V4A)
Operating temperature	-60 to 300 °C
Max. working pressure	100 bar
Test pressure	300 bar
Additional data	Test pressure at 20 °C
Outer beaker Ø	40 mm
Outer head Ø	54 mm
Inner beaker Ø	30 mm
Bottom shape	flat outside and inside
Connection opening in head	G 1/4"

Basic equipment

Pic.	Designation	Art. No.	Pack Qty.	
(1)	Model 0, 50 ml beaker and head	2970.1	1 unit(s)	
(2)	Adapter I	2207.1	1 unit(s)	
(3)	Fine control valve and check valve	H745.1	1 unit(s)	
(4)	Display pressure gauge up to 160 bar	2031.1	1 unit(s)	
	Bursting disc type 8.100 E, 100 bar	2199.1	1 unit(s)	
	PTFE gasket set I (with silver gasket for bursting disc)	2067.1	1 unit(s)	
	Pure silver gasket set I	2065.1	1 unit(s)	
	Wrench set I, Size No.. 14 - 17 - 19 - 22 - 27 - 41	2071.1	1 set	

Accessories for gas injection

Accessories:

Designation	Art. No.	Pack Qty.	
PTFE high-pressure hose with NPT inner thread 1/4"	H996.1	1 unit(s)	
Reducer union of direct connection to gas cylinders (please specify type of gas)	2066.1	1 unit(s)	

Option

Accessories:

Designation	Art. No.	Pack Qty.	
Glass sleeve for 50 ml beaker, height 104 mm, Ø 28 mm	H976.1	1 unit(s)	
Base plate 41, as mount for screwing autoclave models 0 and I	2072.1	1 unit(s)	
Tablet stirring magnet Ø 22 mm, H 15 mm	3003.1	1 unit(s)	
Screw stopper type A for 1/4" connection opening	2052.1	1 unit(s)	

Replacement seals

Accessories:

Designation	Art. No.	Pack Qty.	
PTFE seal 12 - for connections to head, valve and reducer	2160.1	1 unit(s)	
PTFE seal 20 - for pressure gauge	2161.1	1 unit(s)	
PTFE seal 42 - for autoclave beaker/head (models 0 and I) or head opening for sampling (models II and IV)	2163.1	1 unit(s)	
Silver gasket 12 - for connections to head, valve and reducer union	2170.1	1 unit(s)	
Silver gasket 18 - for pressure gauge	2172.1	1 unit(s)	
Silver gasket 40 - for autoclave beaker/head (models 0 and I), for bursting disc holder at the top of the autoclave head II/IV and for adapter with immersion tubes 2, 3 and 4	2174.1	1 unit(s)	
Silver gasket 15 - for bursting disc type 8.100 E, 100 bar	2173.1	1 unit(s)	

Autoclaves



High-pressure laboratory autoclaves model I

Carl ROTH. Material: Stainless steel 1.4571 (V4A).

100 ml/100 bar

Model I is the standard model in the ROTH range. It is used primarily for preliminary testing. Model I consists of a cylindrical autoclave beaker and a threaded autoclave head. The head has a threaded opening on top for attachment of adapter I (to fit bursting disc, pressure gauge and valve). The opening can be closed with a screw stopper. Sealed with PTFE gaskets (max. 180 °C) or pure silver gaskets (max. 300 °C).

Depending on the scope of the autoclave system, delivery times may apply!

Technical specifications:

Empty space	135 ml
Working volume	100 ml
Height	220 mm
Weight	1210 g
Material	Stainless steel 1.4571 (V4A)
Operating temperature	-60 to +300 °C
Max. working pressure	100 bar
Test pressure	300 bar
Outer beaker Ø	40 mm
Outer head Ø	54 mm
Inner beaker Ø	30 mm
Connection opening in head	G 1/4"

Adapter (T-piece), with bursting disc protection

Material	V4A stainless steel 1.4571 (adapter to accommodate the bursting disc, valve and pressure gauge)
Connection openings	G 1/2" for pressure gauge G 1/4" for valve

Basic equipment

Pic.	Designation	Art. No.	Pack Qty.
(1)	Model I, 100 ml beaker and head	2001.1	1 unit(s)
(2)	Adapter I	2207.1	1 unit(s)
(3)	Fine control valve and check valve	H745.1	1 unit(s)
(4)	Display pressure gauge up to 160 bar	2031.1	1 unit(s)
	Bursting disc type 8.100 E, 100 bar	2199.1	1 unit(s)
	PTFE gasket set I (with silver gasket for bursting disc)	2067.1	1 unit(s)
	Pure silver gasket set I	2065.1	1 unit(s)
	Tablet stirring magnet Ø 22 mm, H 15 mm	3003.1	1 unit(s)
	Wrench set I, Size No.. 14 - 17 - 19 - 22 - 27 - 41	2071.1	1 set
	Heating mantle 10 S for 100 ml, with magnetic stirrer	KCX5.1	1 unit(s)

Accessories for gas injection

Designation	Art. No.	Pack Qty.
PTFE high-pressure hose with NPT inner thread 1/4"	H996.1	1 unit(s)
Reducer union of direct connection to gas cylinders (please specify type of gas)	2066.1	1 unit(s)

Accessories for assembly/option

Designation	Art. No.	Pack Qty.
Base plate 41, as mount for screwing autoclave models 0 and I	2072.1	1 unit(s)
Screw stopper type A for 1/4" connection opening	2052.1	1 unit(s)
Glass sleeve for 100 ml beaker, height 185 mm, Ø 28 mm	2196.1	1 unit(s)
Tube connection fitting AD 6.35 mm	H746.1	1 unit(s)

Replacement seals

Designation	Art. No.	Pack Qty.
PTFE seal 12 - for connections to head, valve and reducer	2160.1	1 unit(s)
PTFE seal 20 - for pressure gauge	2161.1	1 unit(s)
PTFE seal 42 - for autoclave beaker/head (models 0 and I) or head opening for sampling (models II and IV)	2163.1	1 unit(s)
Silver gasket 12 - for connections to head, valve and reducer union	2170.1	1 unit(s)
Silver gasket 15 - for bursting disc type 8.100 E, 100 bar	2173.1	1 unit(s)
Silver gasket 18 - for pressure gauge	2172.1	1 unit(s)
Silver gasket 40 - for autoclave beaker/head (models 0 and I), for bursting disc holder at the top of the autoclave head II/IV and for adapter with immersion tubes 2, 3 and 4	2174.1	1 unit(s)



High-pressure laboratory autoclaves model II

Carl ROTH. Material: Stainless steel 1.4571 (V4A).

200/300 ml/100 bar, 250 ml/200 bar

Model II encompasses devices for all reactions where spontaneous gas development and a quick increase in pressure are to be expected. The devices are operated with a large bursting disc, that is incorporated in the autoclave head. They thus offer maximum operational safety.

The enlarged autoclave head is screwed directly onto the cylindrical autoclave beaker. It contains the bursting disc holder at the top and three threaded openings at the side.

For connections with: valves, reducers for pressure gauges and temperature sensors or burst disc safety device II (when using magnetic stirrer head MRK 10).

Threaded openings can be closed with screw stoppers. Sealed with PTFE gaskets (max. 180 °C) or pure silver gaskets (max. 300 °C).

Depending on the scope of the autoclave system, delivery times may apply!



Autoclaves

Autoclave beakers	200 mm	300 ml	250 ml
Empty space (ml)	265	350	320
Working capacity (ml)	200	300	250
Height (mm)	220	300	300
Weight (g)	1375	1900	2250
Max. working pressure (bar)	100	100	200
Test pressure at +20 °C (bar)	300	300	400
Outside Ø (mm)	50	50	50
Inside Ø (mm)	40	40	37
Bottom shape	flat outside and inside		
Material	V4A stainless steel 1.4571		
Working temperature	-60 to +300 °C		

Basic equipment

Technical specifications:

Material	Stainless steel 1.4571 (V4A)
Outer beaker Ø	69 mm top head opening for bursting disc 28.100/28.200 or magnetic stirrer head MRK 10
Connection opening in head	G ¼"
Weight	1250 g

Pic.	Designation	Art. No.	Pack Qty.
(1)	200 ml autoclave beaker/100 bar	2098.1	1 unit(s)
	300 ml autoclave beaker/100 bar	2108.1	1 unit(s)
	250 ml autoclave beaker/200 bar	2094.1	1 unit(s)
(2)	Autoclave head II	2126.1	1 unit(s)

	Bursting disc type 28.100 E, 100 bar	2203.1	1 unit(s)
	Bursting disc type 28.200 E, 200 bar	2204.1	1 unit(s)
(3)	Fine control valve and check valve	H745.1	1 unit(s)
(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)
(5)	Reducer for pressure gauge	2033.1	1 unit(s)
	Screw stopper type A for ¼" connection opening	2052.1	1 unit(s)
	PTFE gasket set with silver gasket	2082.1	1 unit(s)
	Pure silver gasket set II	2102.1	1 unit(s)
	Tablet stirring magnet Ø 30 mm, H 12 mm	4490.1	1 unit(s)
	Wrench set II, Size No. 14 - 17 - 19 - 22 - 27 - 50 - 2 x 55	2078.1	1 set
	Heating mantle 20 S for 200 ml beaker with magnetic stirrer	KCX6.1	1 unit(s)
	Heating mantle 30 S for 250/300 ml beaker, with magnetic stirrer	KCX7.1	1 unit(s)

Accessories for gas injection

Designation	Art. No.	Pack Qty.
PTFE high-pressure hose with NPT inner thread ¼"	H996.1	1 unit(s)
Reducer union of direct connection to gas cylinders (please specify type of gas)	2066.1	1 unit(s)

Special accessories for temperature measurement in autoclaves

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)
Connection cable between heating mantle/sensor, L 1.5 m	KCX9.1	1 unit(s)

Special accessories for insertion or removal of gaseous or liquid samples

Designation	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)
Fine control valve and check valve	H745.1	1 unit(s)
PTFE seal 12 - for connections to head, valve and reducer	2160.1	1 unit(s)
Silver gasket 40 - for autoclave beaker/head (models 0 and I), for bursting disc holder at the top of the autoclave head II/IV and for adapter with immersion tubes 2, 3 and 4	2174.1	1 unit(s)

Designation	Art. No.	Pack Qty.
PTFE seal 42 - for autoclave beaker/head (models 0 and I) or head opening for sampling (models II and IV)	2163.1	1 unit(s)

Special accessories for stirring

Designation	Art. No.	Pack Qty.
Magnetic stirrer head MRK 10	2359.1	1 unit(s)
Adapter for magnetic stirrer head M 42 to M 30	2358.1	1 unit(s)
Bursting disc safety device II	3167.1	1 unit(s)
Bursting disc type 8.100 E, 100 bar	2199.1	1 unit(s)
Silver gasket 15 - for bursting disc type 8.100 E, 100 bar	2173.1	1 unit(s)
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)

Special accessories for assembly/option

Designation	Art. No.	Pack Qty.
Base plate 55, as mount for screwing autoclave model II	2074.1	1 unit(s)
Tube connection fitting AD 6.35 mm	H746.1	1 unit(s)
Glass sleeve for 200 ml beaker, height 205 mm, Ø 38 mm	2197.1	1 unit(s)
Glass sleeve for 300 ml beaker, height 285 mm, Ø 38 mm	2198.1	1 unit(s)
Glass sleeve for 250 ml beaker, height 285 mm, Ø 38 mm	2192.1	1 unit(s)

Replacement seals

Designation	Art. No.	Pack Qty.
PTFE seal 12 - for connections to head, valve and reducer	2160.1	1 unit(s)
PTFE seal 20 - for pressure gauge	2161.1	1 unit(s)
PTFE seal 51 - for autoclave beaker/head (model II)	2164.1	1 unit(s)
Silver gasket 12 - for connections to head, valve and reducer union	2170.1	1 unit(s)
Silver gasket 18 - for pressure gauge	2172.1	1 unit(s)
Silver gasket 40 - for autoclave beaker/head (models 0 and I), for bursting disc holder at the top of the autoclave head II/IV and for adapter with immersion tubes 2, 3 and 4	2174.1	1 unit(s)
Silver gasket 50 - for autoclave beaker/head (model II)	2175.1	1 unit(s)

Autoclaves



High-pressure laboratory autoclaves model IV

Carl ROTH. Material: Stainless steel 1.4571 (V4A).

500 ml/100 bar

Model IV is the largest autoclave in the ROTH range. It is an enhanced version of the original from which all other models were developed. Model IV consists of a stainless steel beaker with flange. The solid stainless steel lid is screwed onto the flange using eight screws. The autoclave head is intended for a large bursting disc as standard. It thus provides enhanced operational safety in the case of spontaneous gas development and a quick increase in pressure.

The enlarged autoclave head is screwed directly onto the cylindrical autoclave beaker. It contains the bursting disc holder at the top and three threaded openings at the side.

For connections with: valves, reducers for pressure gauges and temperature sensors or bursting disc safety device II (when using the magnetic stirrer head).

Threaded openings can be closed with screw stoppers. Sealed with PTFE gaskets (max. 180 °C) or with pure silver gaskets (max. 300 °C). The beaker and head combination consists of 8 hexagon bolts and nuts for simple assembly.

Depending on the scope of the autoclave system, delivery times may apply!

Technical specifications:

Empty space	700 ml
Working volume	500 ml
Height	425 mm
Material	Stainless steel 1.4571 (V4A)
Operating temperature	-60 to +300 °C
Max. working pressure	100 bar
Test pressure	300 bar
Additional data	Test pressure at 20 °C
Outer beaker Ø	60 mm
Inner beaker Ø	50 mm
Outer lid Ø	125 mm
Bottom shape	flat outside and inside

Autoclave head II

Material	V4A stainless steel (1.4571)
Outside Ø	64 mm, top head opening for bursting disc 28.100 or Magnetic stirrer head MRK 10
Three lateral connection openings in the head	G $\frac{1}{4}$ " for valve, reducer for pressure gauge and temperature sensor or bursting disc safety device II for use with magnetic stirrer head MRK 10

Basic equipment

Designation	Art. No.	Pack Qty.	
500 ml beaker and head	K172.1	1 unit(s)	
(3) Fine control valve and check valve	H745.1	1 unit(s)	
(4) Display pressure gauge up to 160 bar	2031.1	1 unit(s)	
(5) Reducer for pressure gauge	2033.1	1 unit(s)	
Screw stopper type A for $\frac{1}{4}$ " connection opening	2052.1	1 unit(s)	
PTFE gasket set with pure silver gasket	K454.1	1 set	
Pure silver gasket set IV	K459.1	1 unit(s)	
Wrench set II, Size No. 14 - 17 - 19 - 22 - 27 - 50 - 55 x	K455.1	1 set	
Tablet stirring magnet Ø 40 mm, H 14 mm	4517.1	1 unit(s)	
Heating mantle 50 S for 500 ml beaker, with magnetic stirrer	KCX8.1	1 unit(s)	

Special accessories for gas injection

Designation	Art. No.	Pack Qty.	
PTFE high-pressure hose with NPT inner thread $\frac{1}{4}$ "	H996.1	1 unit(s)	
Reducer union of direct connection to gas cylinders (please specify type of gas)	2066.1	1 unit(s)	

Special accessories for temperature measurement

Designation	Art. No.	Pack Qty.	
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)	

Special accessories for insertion and removal of gaseous or liquid samples

Designation	Art. No.	Pack Qty.	
Adapter with immersion tube 4 for 500 ml autoclave beaker	K457.1	1 unit(s)	
Fine control valve and check valve	H745.1	1 unit(s)	
PTFE seal 12 - for connections to head, valve and reducer	2160.1	1 unit(s)	
Silver gasket 40 - for autoclave beaker/head (models 0 and I), for bursting disc holder at the top of the autoclave head II/IV and for adapter with immersion tubes 2, 3 and 4	2174.1	1 unit(s)	
PTFE seal 42 - for autoclave beaker/head (models 0 and I) or head opening for sampling (models II and IV)	2163.1	1 unit(s)	
Wrench 55	2187.1	1 unit(s)	

Special accessories for stirring

Designation	Art. No.	Pack Qty.	
Magnetic stirrer head MRK 10	2359.1	1 unit(s)	
Adapter for magnetic stirrer head M 42 to M 30	2358.1	1 unit(s)	
Bursting disc safety device II	3167.1	1 unit(s)	
Bursting disc type 8.100 E, 100 bar	2199.1	1 unit(s)	
Silver gasket 15 - for bursting disc type 8.100 E, 100 bar	2173.1	1 unit(s)	
Gas treatment stirrer type 4 for 500 ml beaker	K458.1	1 unit(s)	

Assembly/option

Designation	Art. No.	Pack Qty.	
Tube connection fitting AD 6.35 mm	H746.1	1 unit(s)	
Glass sleeve for 500 ml beaker, height 320 mm, Ø 48 mm	2099.1	1 unit(s)	
Tablet stirring magnet Ø 40 mm, H 14 mm	4517.1	1 unit(s)	



Autoclaves

Replacement seals

Designation	Art. No.	Pack Qty.	
PTFE seal 12 - for connections to head, valve and reducer	2160.1	1 unit(s)	
PTFE seal 20 - for pressure gauge	2161.1	1 unit(s)	
PTFE seal 60 - for autoclave beaker/head (model IV)	2165.1	1 unit(s)	
Silver gasket 12 - for connections to head, valve and reducer union	2170.1	1 unit(s)	
Silver gasket 18 - for pressure gauge	2172.1	1 unit(s)	
Silver gasket 40 - for autoclave beaker/head (models 0 and I), for bursting disc holder at the top of the autoclave head II/IV and for adapter with immersion tubes 2, 3 and 4	2174.1	1 unit(s)	
Seal 60 - for autoclave beaker/head (model IV)	2176.1	1 unit(s)	



Accessories seal made of PTFE

Carl ROTH.

Dimensions = outside Ø in mm.

Seal 60 – for autoclave beaker/head (model IV)

Type	Art. No.	Pack Qty.	
PTFE seal 12 - for connections to head, valve and reducer	2160.1	1 unit(s)	
PTFE seal 20 - for pressure gauge	2161.1	1 unit(s)	
PTFE seal 42 - for autoclave beaker/head (models 0 and I) or head opening for sampling (models II and IV)	2163.1	1 unit(s)	
PTFE seal 51 - for autoclave beaker/head (model II)	2164.1	1 unit(s)	
PTFE seal 60 - for autoclave beaker/head (model IV)	2165.1	1 unit(s)	



Accessories wrench set

ROTH SELECTION.

Type	Art. No.	Pack Qty.	
Wrench set I, size No. 14 - 17 - 19 - 22 - 27 - 41	2071.1	1 set	
Wrench set II, size No. 14 - 17 - 19 - 22 - 27 - 50 - 2 x 55	2078.1	1 set	
Wrench set II, size No. 14 - 17 - 19 - 22 - 27 - 50 - 55 x	K455.1	1 set	

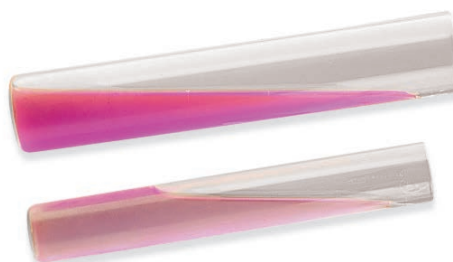


Accessories seal made of pure silver

Carl ROTH.

Dimensions = outside Ø in mm.

Type	Art. No.	Pack Qty.	
Silver gasket 12 - for connections to head, valve and reducer union	2170.1	1 unit(s)	
Silver gasket 15 - for bursting disc type 8.100 E, 100 bar	2173.1	1 unit(s)	
Silver gasket 18 - for pressure gauge	2172.1	1 unit(s)	
Silver gasket 40 - for autoclave beaker/head (models 0 and I), for bursting disc holder at the top of the autoclave head II/IV and adapter with immersion tubes 2, 3 and 4	2174.1	1 unit(s)	
Silver gasket 50 - for autoclave beaker/head (model II)	2175.1	1 unit(s)	
Seal 60 - for autoclave beaker/head (model IV)	2176.1	1 unit(s)	



Accessories glass sleeve

Carl ROTH.

It has proved useful to place highly viscous materials or strong contaminants into laboratory autoclaves in glass sleeves. These special vessels are designed for the high pressure and temperatures in autoclaves.

Type	Art. No.	Pack Qty.	
Glass sleeve for 50 ml beaker, height 104 mm, Ø 28 mm	H976.1	1 unit(s)	
Glass sleeve for 300 ml beaker, height 285 mm, Ø 38 mm	2198.1	1 unit(s)	
Glass sleeve for 100 ml beaker, height 185 mm, Ø 28 mm	2196.1	1 unit(s)	
Glass sleeve for 200 ml beaker, height 205 mm, Ø 38 mm	2197.1	1 unit(s)	
Glass sleeve for 250 ml beaker, height 285 mm, Ø 38 mm	2192.1	1 unit(s)	
Glass sleeve for 500 ml beaker, height 320 mm, Ø 48 mm	2099.1	1 unit(s)	

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Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

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Нижний Новгород (831)429-08-12
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Омск (3812)21-46-40
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Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сыктывкар (8212)25-95-17
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Тверь (4822)63-31-35

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