

Диспенсеры CARL ROTH ROTILABO II, Dispensette S, Dispensette S Organic, Dispensette S Trace, FORTUNA POLYFIX, OPTIFIX, PP, Ultra, Ultra HF

Технические характеристики

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Казахстан (772)734-952-31

Киргизия (996)312-96-26-47



Dispensers

Dispensers ROTILABO® II

Carl ROTH. Autoclavable: Yes.

- Direct displacing piston with wiping PFA lip seal reduces crystallisation of liquids
- Improved volume adjustment due to internal toothed rack, volumes can be set quickly and precisely
- Valve block rotatable by 360° on the bottle, with GL 45 thread
- Swivelling cap does not obstruct dispensing
- Vent valve with safety bulb closes dosing channel if discharge tube is not fitted
- Screwable ventilation stoppers for quick assembly of a drying tube
- Telescopic intake tube, infinitely adjustable to different bottle heights
- Suitable for calibration in conjunction with measuring instrument inspection acc. to ISO 9001 and GLP; change to factory calibration is displayed
- Autoclavable at 121 °C (2 bar), acc. to DIN EN 285, with no need to disassemble



A 121 °C

Materials in contact with media: Borosilicate glass, Al₂O₃ ceramic, ETFE, FEP, PFA, PTFE, platinum-iridium, PP (cap).

Limits of use:

Temperature from +15 °C to +40 °C, steam pressure up to max. 500 mbar, kinematic viscosity up to 500 mm²/s, density up to 2.2 g/cm³.

Technical specifications:

Art. No.	HAC6.1	HAC7.1	HAC8.1	HAC9.1	HAE0.1	HAE1.1
Nominal volume	2 ml	5 ml	10 ml	25 ml	50 ml	100 ml
Correctness	±10	±25	±50	±125	±250	±500
Variation coefficient	±2	±5	±10	±25	±50	±100
Operating temperature	+15 – +40 °C					
Adapter	GL 25, GL 28/S 28, GL 32, GL 38, S 40			GL 32, GL 38, S 40		
Suction tube length	240 mm			330 mm		

Delivery incl. quality certificate, telescopic filling tube, valve mounting tool and PP thread adapter.

Volume (ml)	Graduation	Art. No.	Pack Qty.
0,2–2	0,05	HAC6.1	1 unit(s)
0,5–5	0,10	HAC7.1	1 unit(s)
1–10	0,20	HAC8.1	1 unit(s)
2,5–25	0,50	HAC9.1	1 unit(s)
5–50	1,0	HAE0.1	1 unit(s)
10–100	1,0	HAE1.1	1 unit(s)

Dispensers

Dispensers Dispensette® S

BRAND. Autoclavable: Yes.

Range of applications:

Colour code: red. For dispensing aggressive reagents directly from the supply bottle, e.g. concentrated bases and acids such as H_3PO_4 , H_2SO_4 (excluding, e.g., HCl , HNO_3 and HF), saline solutions and a wide range of organic solvents.

Properties:

- The "floating piston" design makes dispensing easy
- Rapid ventilation through improved fluid mechanics
- Valves without additional seals for easier cleaning
- Rotates through 360°, valve block with GL 45 thread
- Discharge tube with swivel-mounted screw cap for protection against media contact
- Telescopic suction tube adjustable to different bottle sizes
- DE-M approved
- Suitable for calibration in conjunction with measuring instrument inspection according to ISO 9011 and GLP
- Change to factory calibration is shown
- Easy to disassemble for cleaning
- Fully autoclavable at 121 °C
- Microfilter can be connected to the ventilation opening for sterile dispensing



A 121 °C

Materials in contact with media:

Borosilicate glass, Al_2O_3 ceramic, platinum-iridium, ETFE, FEP, PFA, PTFE and PP.

Limits of use:

Max. vapour pressure 600 mbar; max. viscosity 500 mm²/s; max. temperature +40 °C; max. density 2.2 g/cm³.

Analogue without recirculation valve

Quickly adjustable dispensing volume, safe and reliable volume adjustment via the internal toothed rack.

Discharge tube without recirculation valve, prevents contamination of the bottle contents.

Technical specifications:

Art. No.	1HNK.1	1HNL.1	1HNN.1	1HNP.1	1HNT.1	1HNX.1	1HNY.1
Nominal volume	1 ml	2 ml	5 ml	10 ml	25 ml	50 ml	100 ml
Correctness	±6 µl	±10 µl	±25 µl	±50 µl	±125 µl	±250 µl	±500 µl
Variation coefficient	±2 µl		±5 µl	±10 µl	±25 µl	±50 µl	±100 µl
Operating temperature	+15 – +40 °C						
Adapter	GL 24-25, GL 28/S 28, GL 32-33, GL 38, S 40				GL 32-33, GL 38, S 40		
Suction tube length	240 mm				330 mm		

Delivery incl. quality certificate, telescopic filling tube, valve mounting tool and PP thread adapter.

Volume (ml)	Graduation (ml)	Art. No.	Pack Qty.
0,1–1	0,02	1HNK.1	1 unit(s)
1–10	0,20	1HNP.1	1 unit(s)
0,2–2	0,05	1HNL.1	1 unit(s)
0,5–5	0,10	1HNN.1	1 unit(s)
5–50	1,00	1HNX.1	1 unit(s)
10–100	1,00	1HNY.1	1 unit(s)
2,5–25	0,50	1HNT.1	1 unit(s)



Dispensers

Analogue with recirculation valve

Quickly adjustable dispensing volume, safe and reliable volume adjustment via the internal toothed rack.

Discharge tube with recirculation valve prevents reagent loss and allows quick, bubble-free ventilation.

Technical specifications:

Art. No.	1HK3.1	ECL9.1	ECN0.1	ECN1.1	ECN2.1	ECN3.1	ECN4.1
Nominal volume	1 ml	2 ml	5 ml	10 ml	25 ml	50 ml	100 ml
Correctness	±6 µl	±10 µl	±25 µl	±50 µl	±125 µl	±250 µl	±500 µl
Variation coefficient	±2 µl		±5 µl	±10 µl	±25 µl	±50 µl	±100 µl
Operating temperature	+15 – +40 °C						
Adapter	GL 24-25, GL 28/S 28, GL 32-33, GL 38, S 40				GL 32-33, GL 38, S 40		
Suction tube length	240 mm				330 mm		

Delivery incl. quality certificate, telescopic filling tube, recirculation valve and tube, valve mounting tool and PP thread adapter.

Volume (ml)	Graduation (ml)	Art. No.	Pack Qty.
0,1–1	0,02	1HK3.1	1 unit(s)
1–10	0,20	ECN1.1	1 unit(s)
0,2–2	0,05	ECL9.1	1 unit(s)
0,5–5	0,10	ECN0.1	1 unit(s)
5–50	1,00	ECN3.1	1 unit(s)
10–100	1,00	ECN4.1	1 unit(s)
2,5–25	0,50	ECN2.1	1 unit(s)

Digital without recirculation valve

Easy-to-read digital display via mechanical counter. Easy-Calibration technology for fast calibration.

Discharge tube without recirculation valve, prevents contamination of the bottle contents.

Technical specifications:

Art. No.	1HK6.1	1HK7.1	1HK8.1	1HK9.1	1HKA.1	1HKC.1
Nominal volume	1 ml	2 ml	5 ml	10 ml	25 ml	50 ml
Correctness	±6 µl	±10 µl	±25 µl	±50 µl	±125 µl	±250 µl
Variation coefficient	±2 µl		±5 µl	±10 µl	±25 µl	±50 µl
Operating temperature	+15 – +40 °C					
Adapter	GL 24-25, GL 28/S 28, GL 32-33, GL 38, S 40				GL 32-33, GL 38, S 40	
Suction tube length	240 mm				330 mm	

Delivery incl. quality certificate, telescopic filling tube, valve mounting tool and PP thread adapter.

Volume (ml)	Graduation (ml)	Art. No.	Pack Qty.
0,1–1	0,005	1HK6.1	1 unit(s)
1–10	0,05	1HK9.1	1 unit(s)
0,2–2	0,01	1HK7.1	1 unit(s)
0,5–5	0,02	1HK8.1	1 unit(s)
5–50	0,20	1HKC.1	1 unit(s)
2,5–25	0,10	1HKA.1	1 unit(s)

Digital with recirculation valve

Easy-to-read digital display via mechanical counter. Easy-Calibration technology for fast calibration.

Discharge tube with recirculation valve prevents reagent loss and allows quick, bubble-free ventilation.

Technical specifications:

Art. No.	1HK4.1	ECL4.1	ECL5.1	ECL6.1	ECL7.1	ECL8.1
Nominal volume	1 ml	2 ml	5 ml	10 ml	25 ml	50 ml
Correctness	±6 µl	±10 µl	±25 µl	±50 µl	±125 µl	±250 µl
Variation coefficient	±2 µl		±5 µl	±10 µl	±25 µl	±50 µl
Operating temperature	+15 – +40 °C					
Adapter	GL 24-25, GL 28/S 28, GL 32-33, GL 38, S 40				GL 32-33, GL 38, S 40	
Suction tube length	240 mm				330 mm	

Delivery incl. quality certificate, telescopic filling tube, recirculation valve and tube, valve mounting tool and PP thread adapter.

Volume (ml)	Graduation (ml)	Art. No.	Pack Qty.
0,1–1	0,005	1HK4.1	1 unit(s)
1–10	0,05	ECL6.1	1 unit(s)
0,2–2	0,01	ECL4.1	1 unit(s)
0,5–5	0,02	ECL5.1	1 unit(s)
5–50	0,20	ECL8.1	1 unit(s)
2,5–25	0,10	ECL7.1	1 unit(s)

Dispensers

Fixed-volume without recirculation valve

Non-adjustable dispensing volume for routine applications.

Discharge tube without recirculation valve, prevents contamination of the bottle contents.

Technical specifications:

Art. No.	1HNA.1	1HNC.1	1HNE.1	1HNN.1
Nominal volume	1 ml	2 ml	5 ml	10 ml
Correctness	±6 µl	±10 µl	±25 µl	±50 µl
Variation coefficient	±2 µl		±5 µl	±10 µl
Operating temperature	+15 – +40 °C			
Adapter	GL 24-25, GL 28/S 28, GL 32-33, GL 38, S 40			
Suction tube length	240 mm			

Delivery incl. quality certificate, telescopic filling tube, valve mounting tool and PP thread adapter.

Volume (ml)	Art. No.	Pack Qty.	
1	1HNA.1	1 unit(s)	
2	1HNC.1	1 unit(s)	
5	1HNE.1	1 unit(s)	
10	1HNN.1	1 unit(s)	

Fixed with recirculation valve

Non-adjustable dispensing volume for routine applications.

Discharge tube with recirculation valve prevents reagent loss and allows quick, bubble-free ventilation.

Technical specifications:

Art. No.	ECN5.1	ECN6.1	ECN7.1	ECN8.1
Nominal volume	1 ml	2 ml	5 ml	10 ml
Correctness	±6 µl	±10 µl	±25 µl	±50 µl
Variation coefficient	±2 µl		±5 µl	±10 µl
Operating temperature	+15 – +40 °C			
Adapter	GL 24-25, GL 28/S 28, GL 32-33, GL 38, S 40			
Suction tube length	240 mm			

Delivery incl. quality certificate, telescopic filling tube, recirculation valve and tube, valve mounting tool and PP thread adapter.

Volume (ml)	Art. No.	Pack Qty.	
1	ECN5.1	1 unit(s)	
2	ECN6.1	1 unit(s)	
5	ECN7.1	1 unit(s)	
10	ECN8.1	1 unit(s)	



Dispensers

Dispensers Dispensette® S Organic

BRAND. Autoclavable: Yes.

Range of applications:

Colour code: Yellow. Ideal for accurately dispensing organic solvents, e.g. chlorinated and fluorinated hydrocarbons such as trichlorofluoroethane and dichloromethane, acids such as concentrated HCl and HNO₃ (excluding HF) as well as for trifluoroacetic acid (TFA), tetrahydrofuran (THF) and peroxides.

Properties:

- The "floating piston" design makes dispensing easy
- Rapid ventilation through improved fluid mechanics
- Valves without additional seals for easier cleaning
- Rotates through 360°, valve block with GL 45 thread
- Discharge tube with swivel-mounted screw cap for protection against media contact
- Telescopic suction tube adjustable to different bottle sizes
- DE-M approved
- Suitable for calibration in conjunction with measuring instrument inspection according to ISO 9011 and GLP
- Change to factory calibration is shown
- Easy to disassemble for cleaning
- Fully autoclavable at 121 °C
- Microfilter can be connected to the ventilation opening for sterile dispensing



A 121 °C

Materials in contact with media:

Borosilicate glass, Al₂O₃ ceramic, tantalum, ETFE, FEP, PFA, PTFE and PP.

Limits of use:

Max. vapour pressure 600 mbar; max. viscosity 500 mm²/s; max. temperature +40 °C; max. density 2.2 g/cm³.

Analogue without recirculation valve

Quickly adjustable dispensing volume, safe and reliable volume adjustment via the internal toothed rack.

Discharge tube without recirculation valve, prevents contamination of the bottle contents.

Technical specifications:

Art. No.	1K03.1	1K04.1	1K05.1	1K06.1	1K07.1
Nominal volume	5 ml	10 ml	25 ml	50 ml	100 ml
Correctness	±25 µl	±50 µl	±125 µl	±250 µl	±500 µl
Variation coefficient	±5 µl	±10 µl	±25 µl	±50 µl	±100 µl
Operating temperature	+15 – +40 °C				
Adapter	GL 24-25, GL 28/S 28, GL 32-33, GL 38, S 40		GL 32-33, GL 38, S 40		
Suction tube length	240 mm		330 mm		

Delivery incl. quality certificate, telescopic filling tube, valve mounting tool and PP thread adapter.

Volume (ml)	Graduation (ml)	Art. No.	Pack Qty.
1–10	0,2	1K04.1	1 unit(s)
0,5–5	0,1	1K03.1	1 unit(s)
5–50	1,0	1K06.1	1 unit(s)
10–100	1,0	1K07.1	1 unit(s)
2,5–25	0,5	1K05.1	1 unit(s)

Analogue with recirculation valve

Quickly adjustable dispensing volume, safe and reliable volume adjustment via the internal toothed rack.

Discharge tube with recirculation valve prevents reagent loss and allows quick, bubble-free ventilation.

Technical specifications:

Art. No.	ECN9.1	ECP0.1	ECP1.1	ECP2.1	ECP3.1
Nominal volume	5 ml	10 ml	25 ml	50 ml	100 ml
Correctness	±25 µl	±50 µl	±125 µl	±250 µl	±500 µl
Variation coefficient	±5 µl	±10 µl	±25 µl	±50 µl	±100 µl
Operating temperature	+15 – +40 °C				
Adapter	GL 24-25, GL 28/S 28, GL 32-33, GL 38, S 40		GL 32-33, GL 38, S 40		
Suction tube length	240 mm		330 mm		

Delivery incl. quality certificate, telescopic filling tube, recirculation valve and tube, valve mounting tool and PP thread adapter.

Volume (ml)	Graduation (ml)	Art. No.	Pack Qty.
1–10	0,2	ECP0.1	1 unit(s)
0,5–5	0,1	ECN9.1	1 unit(s)
5–50	1,0	ECP2.1	1 unit(s)
10–100	1,0	ECP3.1	1 unit(s)
2,5–25	0,5	ECP1.1	1 unit(s)

Dispensers

Digital without recirculation valve

Easy-to-read digital display via mechanical counter. Easy-Calibration technology for fast calibration.

Discharge tube without recirculation valve, prevents contamination of the bottle contents.

Technical specifications:

Art. No.	1K6L.1	1K6N.1	1K6P.1	1K6T.1
Nominal volume	5 ml	10 ml	25 ml	50 ml
Correctness	±25 µl	±50 µl	±125 µl	±250 µl
Variation coefficient	±5 µl	±10 µl	±25 µl	±50 µl
Operating temperature	+15 – +40 °C			
Adapter	GL 24-25, GL 28/S 28, GL 32-33, GL 38, S 40		GL 32-33, GL 38, S 40	
Suction tube length	240 mm		330 mm	

Delivery incl. quality certificate, telescopic filling tube, valve mounting tool and PP thread adapter.

Volume (ml)	Graduation (ml)	Art. No.	Pack Qty.
1–10	0,05	1K6N.1	1 unit(s)
0,5–5	0,02	1K6L.1	1 unit(s)
5–50	0,20	1K6T.1	1 unit(s)
2,5–25	0,10	1K6P.1	1 unit(s)

Digital with recirculation valve

Easy-to-read digital display via mechanical counter. Easy-Calibration technology for fast calibration.

Discharge tube with recirculation valve prevents reagent loss and allows quick, bubble-free ventilation.

Technical specifications:

Art. No.	1K69.1	1K6A.1	1K6C.1	1K6E.1
Nominal volume	5 ml	10 ml	25 ml	50 ml
Correctness	±25 µl	±50 µl	±125 µl	±250 µl
Variation coefficient	±5 µl	±10 µl	±25 µl	±50 µl
Operating temperature	+15 – +40 °C			
Adapter	GL 24-25, GL 28/S 28, GL 32-33, GL 38, S 40		GL 32-33, GL 38, S 40	
Suction tube length	240 mm		330 mm	

Delivery incl. quality certificate, telescopic filling tube, recirculation valve and tube, valve mounting tool and PP thread adapter.

Volume (ml)	Graduation (ml)	Art. No.	Pack Qty.
1–10	0,05	1K6A.1	1 unit(s)
0,5–5	0,02	1K69.1	1 unit(s)
5–50	0,20	1K6E.1	1 unit(s)
2,5–25	0,10	1K6C.1	1 unit(s)

Fixed-volume without recirculation valve

Non-adjustable dispensing volume for routine applications.

Discharge tube without recirculation valve, prevents contamination of the bottle contents.

Technical specifications:

Art. No.	1K67.1	1K68.1
Nominal volume	5 ml	10 ml
Correctness	±25 µl	±50 µl
Variation coefficient	±5 µl	±10 µl
Operating temperature	+15 – +40 °C	
Adapter	GL 24-25, GL 28/S 28, GL 32-33, GL 38, S 40	
Suction tube length	240 mm	

Delivery incl. quality certificate, telescopic filling tube, valve mounting tool and PP thread adapter.

Volume (ml)	Art. No.	Pack Qty.
5	1K67.1	1 unit(s)
10	1K68.1	1 unit(s)



Dispensers

Fixed-volume with recirculation valve

Non-adjustable dispensing volume for routine applications.

Discharge tube with recirculation valve prevents reagent loss and allows quick, bubble-free ventilation.

Technical specifications:

Art. No.	1K65.1	1K66.1
Nominal volume	5 ml	10 ml
Correctness	±25 µl	±50 µl
Variation coefficient	±5 µl	±10 µl
Operating temperature	+15 – +40 °C	
Adapter	GL 24-25, GL 28/S 28, GL 32-33, GL 38, S 40	
Suction tube length	240 mm	

Delivery incl. quality certificate, telescopic filling tube, recirculation valve and tube, valve mounting tool and PP thread adapter.

Volume (ml)	Art. No.	Pack Qty.
5	1K65.1	1 unit(s)
10	1K66.1	1 unit(s)

Dispensers seripettor®

BRAND.

Properties:

- Dispensing: Push plunger down, fills automatically
- Dispensing sterile media: Screw the valve block with filling tube onto the filled bottle, seal the valve block with the cap, attach the autoclavable sterile filter (0.2 µm) at the side and autoclave at 121 °C. Remove the cap from the valve block under clean bench conditions, screw in the sterile dispensing unit and attach the actuating unit
- Suitable for serial dispensing by means of flexible PTFE dispensing hose with a safety handle, length approx. 800 mm, please order separately
- If the snug fitting plunger seal is worn, the dispensing unit can be changed
- Screws directly onto bottle with thread GL 45



Limits of use:

15 to 40 °C, max. vapour pressure 500 mbar, max. density 2.2 g/cm³, viscosity 300 mm²/s (2-ml device), 150 mm²/s (10-ml device) or 75 mm²/s (25-ml device)

Technical specifications:

Art. No.	PP91.1	PP92.1	PP93.1	PP94.1	HX64.1	HX65.1
Nominal volume	2 ml	10 ml	25 ml	2 ml	10 ml	25 ml
Correctness	±24 µl	±120 µl	±300 µl	±24 µl	±120 µl	±300 µl
Variation coefficient	±4 µl	±20 µl	±50 µl	±4 µl	±20 µl	±50 µl
Operating temperature	+15 – +40 °C					
Adapter	GL 32-33, GL 38, S 40					
Suction tube length	250 mm			125 - 240 mm		

Delivery incl. discharge tube, filling tube, replacement dispensing unit and PP thread adapter.

Standard

For aqueous solutions, buffer solutions, culture media, thinned, non-oxidised acids and agar culture media up to max. 60 °C.

Materials in contact with media: FEP, PP, PE, EPDM

Volume (ml)	Graduation (ml)	Art. No.	Pack Qty.
1–10	0,20	PP92.1	1 unit(s)
0,2–2	0,04	PP91.1	1 unit(s)
2,5–25	0,50	PP93.1	1 unit(s)

Pro

For aqueous solutions, buffer solutions, culture media, acids (e.g. concentrated HCl), polar solvents (e.g. acetone) and UV-sensitive media.

Materials in contact with media: PP, PE, borosilicate glass, Al₂O₃ ceramic, ETFE, PFA, FEP, PTFE, Pt-Ir

Volume (ml)	Graduation (ml)	Art. No.	Pack Qty.
0,2–2	0,04	PP94.1	1 unit(s)
1–10	0,20	HX64.1	1 unit(s)
2,5–25	0,50	HX65.1	1 unit(s)

Dispensers



Dispensers Dispensette® S Trace Analysis analogue BRAND.

Range of application: For accurate dispensing of high purity media in trace analysis. Dispensing of metal traces, usually in the low ppb range, or even in the ppt range, depending on the application. The established cleaning process for use in trace analysis is explained in the operating instructions. Can be used as a dispenser for hydrofluoric acid with a platinum-iridium valve spring.

Properties:

- Depending on requirements, the spring material is made of platinum-iridium or tantalum
- Valves without additional ring seals for easier cleaning
- Dispensing plunger with snug fitting seal
- Complete dispensing unit easily replaceable when worn
- Reliable volume control via internal toothed rack
- Rotates through 360°, valve block with GL 45 thread
- Discharge tube with swivel-mounted screw cap for protection against media contact
- Telescopic suction tube adjustable to different bottle sizes
- DE-M approved
- Suitable for calibration in conjunction with measuring instrument inspection according to ISO 9011 and GLP
- Change to factory calibration is shown
- Microfilter can be connected for sterile dispensing

Materials in contact with media:

High-purity plastics (PTFE, ETFE, PCTFE, FEP and PFA), sapphire valves, platinum-iridium or tantalum spring material.

Limits of use:

Max. vapour pressure 600 mbar; max. viscosity 500 mm²/s; max. temperature +40 °C; max. density 3.8 g/cm³.

Technical specifications:

Art. No.	ECX1.1	ECX3.1	ECX2.1	ECX4.1
Correctness	±50 µl			
Variation coefficient	±10 µl			
Operating temperature	+15 – +40 °C			
Adapter	GL 28/ S 28 (ETFE), GL 32 (ETFE), S 40 (PTFE)			
Suction tube length	240 mm			

With recirculation valve

Discharge tube with recirculation valve prevents reagent loss and allows quick, bubble-free ventilation

Delivery incl. quality certificate, recirculation tune, telescopic filling tube, valve mounting tool and thread adapter

Version	Volume (ml)	Graduation (ml)	Art. No.	Pack Qty.
Tantalum, with RDV	1–10	0,2	ECX4.1	1 unit(s)
Platinum-iridium, with RDV	1–10	0,2	ECX2.1	1 unit(s)

Without recirculation valve

Discharge tube without recirculation valve, prevents contamination of the bottle contents

Delivery incl. quality certificate, telescopic filling tube, valve mounting tool and thread adapter

Version	Volume (ml)	Graduation (ml)	Art. No.	Pack Qty.
Platinum-iridium, without RDV	1–10	0,2	ECX1.1	1 unit(s)
Tantalum, without RDV	1–10	0,2	ECX3.1	1 unit(s)



Bottle holders for dispensers

BRAND. Material: PP.

For secure attachment of bottle top dispensers or digital burettes during work with small storage bottles. Made entirely from plastic and therefore ideal for trace analysis and use in aggressive environments (e.g. acid vapours in extraction).

- Base plate: L 220 x W 160 mm
- Stand rod length: 325 mm
- Weight approx. 1.1 kg

Version	Art. No.	Pack Qty.
Bottle holders	CNN2.1	1 unit(s)



Dispensers

Dispensers FORTUNA® POLYFIX®

Poulten & Graf. Autoclavable: Yes.

- Conformity-certified
- Precision dispensing plunger
- Quick adjustment with easy action
- Rotatable fine adjustment
- Screws directly onto bottle with thread GL 32



A 121 °C

Technical specifications:

Art. No.	P312.1	PK97.1	PK99.1	P313.1	PK98.1	PL00.1
Nominal volume	10 ml			50 ml		
Correctness	±60 µl			±300 µl		
Variation coefficient	±20 µl			±100 µl		
Operating temperature	+15 – +50 °C					
Adapter	GL 40, GL 45					
Suction tube length	350 mm					

Delivery incl. discharge tube set, PTFE intake hose, two PP thread adapters.

With glass piston and clear glass cylinder

For dispensing aqueous media.

Volume (ml)	Graduation (ml)	Art. No.	Pack Qty.	
2–10	0,2	P312.1	1 unit(s)	
10–50	1,0	P313.1	1 unit(s)	

With PTFE-coated piston and clear glass cylinder

For dispensing weak acids and bases.

Volume (ml)	Graduation (ml)	Art. No.	Pack Qty.	
2–10	0,2	PK97.1	1 unit(s)	
10–50	1,0	PK98.1	1 unit(s)	

With glass piston and brown glass cylinder

For dispensing light-sensitive media.

Volume (ml)	Graduation (ml)	Art. No.	Pack Qty.	
2–10	0,2	PK99.1	1 unit(s)	
10–50	1,0	PL00.1	1 unit(s)	

Dispensers

Dispensers FORTUNA® OPTIFIX®

Poultien & Graf. Autoclavable: Yes.

Properties:

- Ergonomic design with colour-code system
- Resistant to abrasion, UV radiation, acids and acid vapours
- Valve block without metal springs; no contamination of the dispensed liquid
- Quick volume adjustment with easy action and additional rotatable fine adjustment
- Visually recognisable dosing direction
- Screws directly onto bottle with thread GL 32
- Easy to dismantle and clean
- Conformity testing acc. to DIN EN ISO 8655-5



A 121 °C

BASIC

For dosing aqueous media, crystallizing substances and diluted acids and alkalis.

Plastic-coated, glass dispensing cylinder. Dosing cylinder made of glass, PTFE-coated.

Technical specifications:

Nominal volume	2 ml	5 ml	10 ml	30 ml	50 ml	100 ml	200 ml	300 ml	500 ml
Correctness	±12 µl	±30 µl	±60 µl	±180 µl	±300 µl	±600 µl	±1200 µl	±1800 µl	±3000 µl
Variation coefficient	±4 µl	±10 µl	±20 µl	±60 µl	±100 µl	±200 µl	±400 µl	±600 µl	±1000 µl
Operating temperature	+15 – +35 °C								
Adapter	GL 40, GL 45								
Suction tube length	350 mm						510 mm		

Delivery incl. PTFE intake hose and two PP thread adapters.

Volume (ml)	Graduation (ml)	Art. No.	Pack Qty.
1–5	0,1	E822.1	1 unit(s)
2–10	0,2	E823.1	1 unit(s)
0,5–2	0,1	E821.1	1 unit(s)
6–30	0,5	E824.1	1 unit(s)
10–50	1,0	E825.1	1 unit(s)
20–100	2,0	E826.1	1 unit(s)
40–200	5,0	E827.1	1 unit(s)
60–300	5,0	E828.1	1 unit(s)
100–500	5,0	E829.1	1 unit(s)

SOLVENT

For dosing solvents and low-viscosity media (up to 100 mPa · s).

Plastic-coated, glass dispensing cylinder. Dosing piston made of glass, without coating.

Delivery incl. PTFE intake hose and two PP thread adapters.

Volume (ml)	Graduation (ml)	Art. No.	Pack Qty.
1–5	0,1	E834.1	1 unit(s)
2–10	0,2	E835.1	1 unit(s)
0,5–2	0,1	E833.1	1 unit(s)
6–30	0,5	E836.1	1 unit(s)
10–50	1,0	E837.1	1 unit(s)
20–100	2,0	E838.1	1 unit(s)
40–200	5,0	E839.1	1 unit(s)
60–300	5,0	E840.1	1 unit(s)
100–500	5,0	E841.1	1 unit(s)



Dispensers

SAFETY

For dosing strong acids and aggressive chemicals.

Plastic-coated, glass dispensing cylinder. Dosing cylinder made of glass, PTFE-coated with sealing lip.

Delivery incl. PTFE intake hose and two PTFE thread adapters.

Volume (ml)	Graduation (ml)	Art. No.	Pack Qty.	
1–5	0,1	E843.1	1 unit(s)	
2–10	0,2	E844.1	1 unit(s)	
0,5–2	0,1	E842.1	1 unit(s)	
6–30	0,5	E845.1	1 unit(s)	
10–50	1,0	E846.1	1 unit(s)	
20–100	2,0	E847.1	1 unit(s)	

SAFETY S

For dispensing fuming acids and other aggressive chemicals as well as odorous liquids.

Plastic-coated, glass dispensing cylinder. Dosing cylinder made of glass, PTFE-coated with sealing lip.

With safety stopcock on the discharge tube and an additional safety valve in the ventilation channel.

Delivery incl. PTFE intake hose and two PTFE thread adapters.

Volume (ml)	Graduation (ml)	Art. No.	Pack Qty.	
1–5	0,1	PL12.1	1 unit(s)	
2–10	0,2	PL13.1	1 unit(s)	
0,5–2	0,1	PL11.1	1 unit(s)	
10–50	1,0	PL15.1	1 unit(s)	
20–100	2,0	PL16.1	1 unit(s)	
6–30	0,5	PL14.1	1 unit(s)	

HF

With robust PTFE-encased dispensing plunger, dispensing cylinder made of PTFE. For dispensing highly aggressive and toxic chemicals (e.g. hydrofluoric acid).

Delivery incl. PTFE intake hose and two PTFE thread adapters.

Volume (ml)	Graduation (ml)	Art. No.	Pack Qty.	
1–5	0,1	PL17.1	1 unit(s)	
2–10	0,2	PL18.1	1 unit(s)	
6–30	0,5	PL19.1	1 unit(s)	
10–50	1,0	PL20.1	1 unit(s)	

Dispensers



A 121 °C

Dispensers ceramus® classic

Hirschmann. Autoclavable: Yes.

Properties:

- Ceramic flasks: No abrasion, no swelling, no thermal problems and high chemical resistance
- Variable volume setting
- Intake hose firmly screwed on, creating a tight seal
- Complete reproducibility of work
- Quick and safe volume adjustment
- Components are easy to change
- Rotates through 360°, valve block with GL 32 thread
- Can be steam sterilised at 121 °C/2 bar without needing to be dismantled
- Conformity certified

Materials in contact with media:

Borosilicate glass, Al₂O₃ ceramic, ECTFE, Hastelloy

Technical specifications:

Art. No.	1591.1	1592.1	1593.1	1594.1	1595.1	1596.1
Nominal volume	1 ml	2 ml	5 ml	10 ml	30 ml	60 ml
Correctness	±6 µl	±12 µl	±30 µl	±60 µl	±180 µl	±360 µl
Variation coefficient	±2 µl	±4 µl	±10 µl	±20 µl	±60 µl	±120 µl
Operating temperature	+4 – +50 °C					
Adapter	GL 28, S40, GL 45					
Suction tube length	310 mm					

Delivery incl. 3 thread adapters, one assembly key, quality certificate.

Volume (ml)	Graduation (ml)	Art. No.	Pack Qty.	
1–5	0,10	1593.1	1 unit(s)	
0,2–1	0,05	1591.1	1 unit(s)	
2–10	0,25	1594.1	1 unit(s)	
0,4–2	0,05	1592.1	1 unit(s)	
5–30	0,50	1595.1	1 unit(s)	
10–60	1,00	1596.1	1 unit(s)	



A 121 °C

Dispensers PP

Hirschmann. Autoclavable: Yes.

With glass flasks for dispensing aqueous and organic media. Sterilisable up to 121 °C, with a A32 screw thread. Conformity certified.

Materials in contact with media:

Borosilicate glass, Al₂O₃ ceramic, PP, Hastelloy

Technical specifications:

Art. No.	P207.1	P208.1
Nominal volume	10 ml	60 ml
Correctness	±60 µl	±360 µl
Variation coefficient	±20 µl	±120 µl
Operating temperature	+4 – +50 °C	
Adapter	GL 28, S 40, GL 45	
Suction tube length	310 mm	

Delivery incl. three thread adapters, quality certificate.

Volume (ml)	Graduation (ml)	Art. No.	Pack Qty.	
2–10	0,25	P207.1	1 unit(s)	
10–60	1,00	P208.1	1 unit(s)	



Dispenser



A 121 °C

Dispensers ceramus®

Hirschmann. Autoclavable: Yes.

Properties:

- Media return system
- Ceramic flasks: No abrasion, no swelling, no thermal problems and high chemical resistance
- Intake hose firmly screwed on, creating a tight seal
- Freely rotatable dispenser on the bottle
- Luer lock connection at the back
- Ergonomic grip
- Quick and safe volume adjustment
- Complete reproducibility of work
- Components are easy to change
- Rotates through 360°, valve block with GL 45 thread
- Can be steam sterilised at 121 °C/2 bar without needing to be dismantled
- Conformity certified

Delivery incl. three thread adapters, one assembly key, quality certificate.

Variable

Materials in contact with media:

Borosilicate glass, Al₂O₃ ceramic, ECTFE, Hastelloy

Technical specifications:

Art. No.	T300.1	T301.1	T302.1	T303.1	T304.1	T305.1
Nominal volume	1 ml	2 ml	5 ml	10 ml	30 ml	60 ml
Correctness	±6 µl	±12 µl	±30 µl	±60 µl	±180 µl	±360 µl
Variation coefficient	±2 µl	±4 µl	±10 µl	±20 µl	±60 µl	±120 µl
Operating temperature	+4 – +50 °C					
Adapter	GL 32, GL 38, S 40					
Suction tube length	310 mm					

Volume (ml)	Graduation	Art. No.	Pack Qty.
1–5	0,10	T302.1	1 unit(s)
0,2–1	0,05	T300.1	1 unit(s)
2–10	0,25	T303.1	1 unit(s)
0,4–2	0,05	T301.1	1 unit(s)
5–30	0,50	T304.1	1 unit(s)
10–60	1,00	T305.1	1 unit(s)

Fixed

Materials in contact with media:

Borosilicate glass, Al₂O₃ ceramic, ECTFE, Hastelloy

Technical specifications:

Art. No.	T326.1	T327.1	T328.1	T329.1	T330.1	T331.1
Nominal volume	1 ml	2 ml	5 ml	10 ml	25 ml	50 ml
Correctness	±6 µl	±12 µl	±30 µl	±60 µl	±150 µl	±300 µl
Variation coefficient	±2 µl	±4 µl	±10 µl	±20 µl	±50 µl	±100 µl
Operating temperature	+4 – +50 °C					
Adapter	GL 32, GL 38, S 40					
Suction tube length	310 mm					

Volume (ml)	Art. No.	Pack Qty.
1	T326.1	1 unit(s)
2	T327.1	1 unit(s)
5	T328.1	1 unit(s)
10	T329.1	1 unit(s)
25	T330.1	1 unit(s)
50	T331.1	1 unit(s)

HF

For dispensing hydrofluoric acid and other problematic media.

Materials in contact with media:

Borosilicate glass, Al₂O₃ ceramic, ECTFE, platinum-iridium

Technical specifications:

Art. No.	T306.1
Nominal volume	10 ml
Correctness	±60 µl
Variation coefficient	±20 µl
Operating temperature	+4 – +50 °C
Adapter	GL 32, GL 38, S 40
Suction tube length	310 mm

Volume (ml)	Graduation	Art. No.	Pack Qty.
2–10	0,25	T306.1	1 unit(s)

Dispenser



Dispenser Ultra / Ultra HF

ROTH SELECTION.

For dispensing highly pure acids and alkalis.
Suitable for use in ultra trace analysis.

General features of all models:

- **Free of metals**
- Made of high quality and highly pure plastics (PTFE, TFM and PFA)
- Calibrated and mechanically tested for precision and accuracy
- 38-430 thread (fits ROTIPURAN® Ultra products)

When using bottles with a GL45 thread, please order fastening for dispenser KK11.1 separately.

Ultra

Properties:

- Acid cleansed
- Manufactured in cleanroom (class 100)

Volume (ml)	Graduation (ml)	Tolerance (ml)	Art. No.	Pack Qty.	
0,5–5	0,5	±0,02	KK97.1	1 unit(s)	

Ultra HF

Properties:

- Specially for dispensing hydrofluoric acids
- Also suitable for analytical acids

Volume (ml)	Graduation (ml)	Tolerance (ml)	Art. No.	Pack Qty.	
0,5–5	0,5	±0,02	KK98.1	1 unit(s)	

Accessories for Ultra/Ultra HF dispensers

ROTH SELECTION.

Bottle holder for Ultra/Ultra HF dispensers

Stabilises bottles when using a dispenser. The four-screw system is suitable for both square bottles and round bottles. The bottle holder is designed for ROTIPURAN® Supra and Ultra bottles with capacities from 250 ml to 2 litres. Also suitable for bottles with a diameter from approx. 7.0 cm to 11.5 cm.

Version	Art. No.	Pack Qty.	
Bottle holder	KK99.1	1 unit(s)	

Adapter to GL 45

Material: PTFE. For bottles with GL45 thread, specially for the use of ROTIPURAN® Supra products with Ultra and Ultra HF dispensers.

Version	Art. No.	Pack Qty.	
Adapter	KK11.1	1 unit(s)	



Digital dispensers opus® Dispensers

Hirschmann.

For motor-driven dosing directly from the lab bottle. Microprocessor-controlled piston stroke system guarantees maximum accuracy and precise, reproducible results.

Properties:

- Safe and easy handling via external touchscreen with clearly arranged menu keys; with quick-cal function for simple calibration of other temperatures or other media
- High media flexibility thanks to the highly-resistant, inert materials
- Media carrying parts are steam sterilisable (121 °C)
- Valve block with GL 45 thread
- Time-controlled serial dosing up to 9999 reruns, enables integration in automated process runs
- Methods memory for 9 different procedures
- Media feedback system for ventilation without loss of reagent
- Universal Luer connection for dry pipes, filters etc.
- Can be battery- or mains-operated (battery not included in the delivery; please order separately)
- Stepper function for delivery of up to 10 different partial quantities
- Intake and draining speeds can be set
- 4 languages (G, E, F, S) integrated by default
- Optional system platform for stability, please order separately

Materials in contact with media:

Borosilicate glass, PTFE, FEP, ECTFE, Hastelloy

Control panel:

- Touchscreen: 3.5" with 320 x 240 pixel
- PC port: USB or RS 232
- Dimensions: W 110 x D 130 x H 55 mm
- Weight without battery: 230 g

Technical specifications:

Art. No.	PA71.1	LK06.1	LK07.1
Max. piston stroke	10 ml	20 ml	50 ml
Volume range	0,010–99,999 ml	0,10–200 ml	1,00–500 ml
Resolution	<1 µl		<2 µl
Correctness	0,6 %		
Variation coefficient	0,2 %		
Operating temperature	+4 – +40 °C		
Weight	660 g		
Adapter	GL 32, GL 38, S 40		
Mains connection	230 V, 50 Hz		

Delivery incl. thread adapter, intake hose, return hose, output unit dispenser, valve assembly spanner, touchscreen control, power supply unit, data power cable, quality certificate according to DIN EN ISO 8655.

Version	Art. No.	Pack Qty.	
10 ml	PA71.1	1 unit(s)	
20 ml	LK06.1	1 unit(s)	
50 ml	LK07.1	1 unit(s)	

Алматы (7273)495-231
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
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

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Саранск (8342)22-96-24
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Сургут (3462)77-98-35
Тверь (4822)63-31-35

Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
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Казахстан (772)734-952-31

Киргизия (996)312-96-26-47