

ceramus® Dispensers, Hirschmann

ceramus® dispenser technology with ceramic piston and recirculation system

ceramus® is a highly precise bottle dispenser with a broad range of application for dispensing nearly all liquids.

Ceramic dispensing piston:

ceramus® has a resistant special piston made of high-purity Al_2O_3 .

Advantages of the ceramic piston:

- no abrasion
- no swelling
- no thermal problems

High resistance to chemicals:

- top-grade materials guarantee very high resistance to chemicals

Best handling:

- user-friendly recirculation system for fast venting without loss of reagent - good ecology and economy
- latching setting ring for fast and extremely precise settings
- ergonomic handle and excellent sliding properties of the dispensing piston facilitate operation for series dispensings

Modern, well arranged design

Precision and accuracy:

- **no re-calibration**

necessary thanks to a combination of self-latching settings and permanently calibrated volume steps

individual quality certificate acc. to DIN ISO 9000 ff., suitable for use as test equipment conformity certified (acc. to Annex 12 of the German Calibration Regulations)

Exemplary safety and choice of materials:

- protective casing helps to prevent breakage of glass cylinders and dispensing bottles
- **screw-coupled**

suction tube prevents the formation of air bubbles during aspiration

the device is freely rotatable so the label on the supply bottle is always in view
guided discharge cannula prevents „snip effect“ with the dispensing media

User-friendliness

- valves are easy to clean and replace
- sterilizable with steam, also when fully assembled

Additional merits:

- Discharge unit available with Luer-Lock connection
- Spiral discharge tube available for series dispensings
- Venting of bottle via the Luer-Lock connection
- Screw-coupled suction tube
- Environment-friendly packaging, fully recyclable
- 12-month manufacturer's warranty

Items supplied:

- ceramus® with thread adapter A 32/33, A 38, S 40 (Merck bottles), 1 suction tube with union nut, recirculation pipe, 1 ejector unit, 1 mounting wrench, individual quality certificate

Special version for problematic media:

- ceramus® HF is a special version for dispensing hydrofluoric acid and other problematic media
- Innovative dispensing system made of top-grade materials

ceramus® adjustable volume

Volume ml	Sub-division ml	R %	CV %	Order No.
0.2 – 1.0	0.05	0.6	0.1	14 37 93120
0.4 – 2.0	0.05	0.5	0.1	14 37 93220
1.0 – 5.0	0.10	0.5	0.1	14 37 93320
2.0 – 10.0	0.25	0.5	0.1	14 37 93420
5.0 – 30.0	0.50	0.5	0.1	14 37 93520
10.0 – 60.0	1.00	0.5	0.1	14 37 93620

ceramus® fixed volume

Volume ml	Sub-division ml	R %	CV %	Order No.
1	-	0.6	0.1	14 37 93121
2	-	0.5	0.1	14 37 93221
5	-	0.5	0.1	14 37 93321
10	-	0.5	0.1	14 37 93421
25	-	0.5	0.1	14 37 93521
50	-	0.5	0.1	14 37 93621

ceramus® HF

Volume ml	Sub-division ml	R %	CV %	Order No.
2.0 – 10.0	0.25	0.6	0.1	14 37 93423



Thread adapter, ceramus®

Thread adapter made of PP/ETFE for adapting standard internal threads (ceramus®, solarus® und akku-drive®) to bottle external thread.

Thread adapter	to	Material	Order No.
A 45	A 32	PP	14 37 13521
A 45	A 28	PP	10 37 13523
A 45	A 38/430	PP	10 37 13524
A 45	A 38	PP	14 37 13525
A 45	S 40	PP	14 37 13527
A 45	A 32	ETFE	14 37 13621
A 45	A 28	ETFE	10 37 13623
A 45	A 38/430	ETFE	10 37 13624
A 45	A 38	ETFE	14 37 13625
A 45	S 40	ETFE	14 37 13627

Accessories

Article	Order No.
Discharge valve, ball/glass, Hastelloy spring	14 37 16005
Discharge valve, ball/ceramic, platinum-iridium spring (HF)	14 37 16028
Discharge valve, ball/glass, platinum-iridium spring	10 37 16029
Suction valve, ball/glass, Hastelloy spring, ceramus® only	14 37 16505
Suction valve, ball/ceramic, platinum-iridium spring (HF)	14 37 16528
Suction valve, ball/glass, platinum-iridium spring	10 37 16529
Return valve, ball/glass, Hastelloy spring, ceramus® only	14 37 16625
Return valve, ball/ceramic, platinum-iridium spring (HF)	14 37 16626
Return valve, ball/glass, platinum-iridium spring	10 37 16629
Mounting wrench	14 37 16901
Ejection unit standard	14 37 13025
complete, with full-length cannula guide, suitable for ceramus®	
Ejection unit, flexible, spiral-shaped, working length approx. 1 m	14 37 13027
Discharge unit, complete, with Luer-Lock connection adapter	14 37 13028
FEP/PP, suitable for all ceramus®-devices and akku-drive®	
Discharge unit with Luer-Lock connection	10 37 13029
Suction tube with fitting, 310 mm	14 37 15005
Suction tube with fitting, 400 mm	14 37 15007
Return tube with fitting, ceramus® only	14 37 15125

