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1

1

Measuring cylinders, borosilicate glass 3.3, tall form, class A, blue graduated

- Conformity certified with batch ID
- DIN EN ISO 4788
- Hexagonal foot with spout
- Calibrated to contain (IN)
- Inscriptions are printed with blue enamel
- Batch certificate can be downloaded from website

ISOLAB

Capacity	Tolerance	Max. height	PK	Cat. No.
ml	± ml	mm		
5	0.05	115	1	9.274 170
10	0.10	140	1	9.274 171
25	0.25	170	1	9.274 172
50	0.50	200	1	9.274 173
100	0.50	260	1	9.274 174
250	1.00	335	1	9.274 175
500	2.50	390	1	9.274 176
1000	5.00	470	1	9.274 177
2000	10.00	570	1	9.274 178

2

2

Measuring cylinders, DURAN®, tall form, class A, blue graduation

IN (TD) calibrated. With spout and hexagonal glass base. Main point ring graduation. With dated batch identification. Declaration of conformity acc. to DIN 12600.

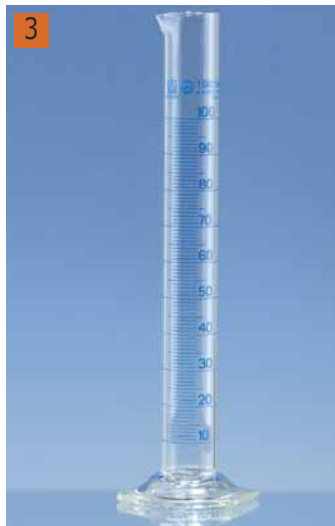
Hirschmann

Graduation in durable blue enamel, acc. to DIN EN ISO 4788.

For those products batch calibration reports, which are free of charge, can be generated and printed on www.hirschmannlab.com. Additional single calibration reports or DAkkS certificates (former DKD calibration reports) are available.

Capacity	Grad.	Tolerance	Height	PK	Cat. No.
ml	ml	± ml	mm		
5	0.1	0.05	115	1	9.274 180
10	0.2	0.1	140	1	9.274 181
25	0.5	0.25	170	1	9.274 182
50	1	0.5	200	1	9.274 183
100	1	0.5	260	1	9.274 184
250	2	1.0	335	1	9.274 185
500	5	2.5	390	1	9.274 186
1000	10	5.0	470	1	9.274 187
2000	20	10.0	500	1	9.274 188

Also available with dated batch identification acc. to USP (US Pharmacopeia).

3

3

Measuring cylinders, borosilicate glass 3.3, tall form, class A, blue graduated

With spout, tall form. BLAUBRAND®. To DIN EN ISO 4788.

BRAND

DE-M marking with works certified batch number. With spout and hexagonal foot.

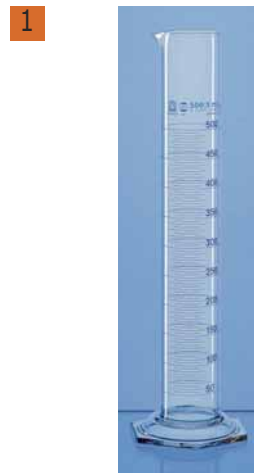
Graduations and inscriptions in highly contrasting blue enamel. Calibrated to contain (IN). All BLAUBRAND® cylinders are delivered with batch number and batch certificate. Also available with individual works, USP, or DAkkS (former DKD) calibration certificate on request. The batch certificate is also available to download from the manufacturer's website.

Capacity	Grad.	Tolerance	Height	PK	Cat. No.
ml	ml	± ml	mm		
5	0.1	0.05	115	1	9.274 105
10	0.2	0.10	140	1	9.274 108
25	0.5	0.25	170	1	9.274 120
50	1	0.5	200	1	9.274 128
100	1	0.5	260	1	9.274 138
250	2	1.0	335	1	9.274 148
500	5	2.5	365	1	9.274 154
1000	10	5.0	465	1	9.274 162
2000	20	10	505	1	9.274 164

1 Measuring cylinders USP, borosilicate glass 3.3, tall form, class A, blue graduated

DIN EN ISO 4788, DE-M marking. Calibrated to contain (IN). Ring marks at major graduations. *BRAND*
 Marks and inscriptions in high contrast blue enamel. With spout and hexagonal base.
 Incl. USP batch certificate.
 On request, also available with USP individual certificate.

Capacity	Grad.	Tolerance	Height	PK	Cat. No.
ml	ml	± ml	mm		
5	0.1	0.05	115	1	6.261 319
10	0.2	0.10	140	1	6.261 318
25	0.5	0.17	170	1	6.261 317
50	1	0.25	200	1	6.261 316
100	1	0.5	260	1	6.261 315
250	2	1.0	335	1	6.261 314
500	5	2.0	365	1	9.275 006
1000	10	3.0	465	1	6.261 313
2000	20	6.0	505	1	9.275 007



2 Measuring cylinders, DURAN®, tall form, class A, amber stain graduation

IN (TC) calibrated. With spout and hexagonal glass base. Main point ring graduation. *Hirschmann*
 With dated batch identification. Declaration of conformity acc. to DIN 12600.
 With durable amber stain graduation, acc. to DIN EN ISO 4788.
 For those products batch calibration reports, which are free of charge, can be generated and printed on
 www.hirschmannlab.com. Additional single calibration reports or DAkkS certificates (former DKD calibration reports)
 are available.

Capacity	Grad.	Tolerance	Height	PK	Cat. No.
ml	ml	± ml	mm		
5	0.1	0.05	115	1	6.901 399
10	0.2	0.1	140	1	6.250 413
25	0.5	0.25	170	1	6.700 903
50	1.0	0.5	200	1	6.201 104
100	1.0	0.5	260	1	6.303 988
250	2.0	1.0	335	1	6.250 483
500	5.0	2.5	390	1	6.222 339
1000	10.0	5.0	470	1	6.200 496
2000	20.0	10.0	500	1	6.206 675



3 Measuring cylinders, Borosilicate glass 3.3, tall form, class B, white graduation

Flawless spout design assures pouring without any drips. Thick and durable polypropylene base reduces the risk of breakage during use and cleaning. *ISOLAB*
 Base perfectly fits the cylinder body and can easily be dismantled.

Capacity	PK	Cat. No.
ml		
10	2	6.286 599
25	2	6.286 600
50	2	6.286 601
100	2	6.286 602
250	2	6.286 603
500	2	6.286 604
1000	2	6.286 605



4 Measuring cylinders, DURAN®, tall form, class B, blue graduation

IN (TD) calibrated. With spout and hexagonal glass base, short line. Tolerances better than class B requirements. Graduation in durable blue enamel, acc. to DIN EN ISO 4788. *Hirschmann*

Capacity	Grad.	Tolerance	Height	PK	Cat. No.
ml	ml	± ml	mm		
5	0.1	0.075	115	1	9.274 198
10	0.2	0.15	140	1	9.274 199
25	0.5	0.375	170	1	9.274 200
50	1	0.75	200	1	9.274 201
100	1	0.75	260	1	9.274 202
250	2	1.5	335	1	9.274 203
500	5	3.75	390	1	9.274 204
1000	10	7.5	470	1	9.274 206
2000	20	15.0	500	1	9.274 207



1

1

Measuring cylinders, DURAN®, tall form, class B, amber stain graduation

IN (TC) calibrated. With spout and hexagonal glass base, short line. Tolerances better than class B requirements. With durable amber stain graduation, DIN EN ISO 4788.

Hirschmann

Capacity	Grad.	Tolerance	Height	PK	Cat. No.
ml	ml	± ml	mm		
5	0.1	0.075	115	1	6.078 159
10	0.2	0.15	140	1	6.200 432
25	0.5	0.375	170	1	6.200 433
50	1.0	0.75	200	1	7.200 508
100	1.0	0.75	260	1	6.510 180
250	2.0	1.5	335	1	6.200 434
500	5.0	3.8	390	1	6.510 181
1000	10.0	7.5	470	1	6.510 182
2000	20.0	15.0	500	1	6.510 183
5000*	50.0	37.5	650	1	7.510 242

* Supplementary to DIN.

2

2

Measuring cylinders, borosilicate glass 3.3, tall form, class B, amber graduation

Available with glass, or detachable plastic, feet and PP protective collars (plastic feet and collar are not autoclavable). With spout, tall form. SILBERBRAND Eterna. Class B.

BRAND

To DIN EN ISO 4788. With spout and hexagonal foot.

Graduations and inscriptions in Eterna permanent amber stain. Calibrated to contain (IN).

Capacity	Grad.	Tolerance	Height	Foot	PK	Cat. No.
ml	ml	± ml	mm			
5	0.1	0.08	115	Glass	1	9.274 005
10	0.2	0.15	140	Glass	1	9.274 008
25	0.5	0.4	170	Glass	1	9.274 020
50	1	0.8	200	Glass	1	9.274 028
100	1	0.8	260	Glass	1	9.274 038
250	2	1.5	335	Glass	1	9.274 048
500	5	4	365	Glass	1	9.274 054
1000	10	8	465	Glass	1	9.274 062
2000	20	15	505	Glass	1	9.274 064

3

3

Measuring cylinders, DURAN®, low form, class B, amber stain graduation

IN (TC) calibrated. With spout and hexagonal glass base. Tolerances better than class B requirements. Short line graduation. With durable amber stain graduation, DIN EN ISO 4788.

Hirschmann

Capacity	Grad.	Tolerance	Height	PK	Cat. No.
ml	ml	± ml	mm		
10	1	0.3	100	1	9.274 190
25	1	0.5	125	1	9.274 191
50	2	1.0	150	1	9.274 192
100	2	1.0	170	1	9.274 193
250	5	2.0	220	1	9.274 194
500	10	5.0	255	1	9.274 195
1000	20	10.0	295	1	9.274 196
2000	50	20.0	345	1	9.274 197

4

4

Measuring cylinders, Borosilicate glass 3.3, low form, class B, amber graduations

Low form. SILBERBRAND Eterna. DIN EN ISO 4788. With spout and hexagonal foot. Graduations and inscriptions in Eterna permanent amber stain. Calibrated to contain IN.

BRAND

Capacity	Grad.	Height	Tolerance	PK	Cat. No.
ml	ml	mm	± ml		
10	1	90	0,3	1	9.274 608
25	1	115	0,5	1	9.274 620
50	2	145	1	1	9.274 628
100	2	165	1	1	9.274 638
250	5	195	2	1	9.274 648
500	10	250	5	1	9.274 654
1000	20	285	10	1	9.274 662
2000	50	340	20	1	9.274 664

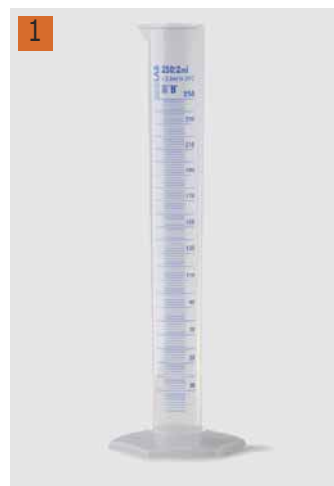
1 Measuring cylinders, PP, tall form, class B, blue graduations



ISOLAB

Tall form, highly transparent, with blue graduations, hexagonal base, calibrated to contain (IN). Tolerances class B according to DIN 12681/ISO 6706. Exposure to temperatures above 60°C may effect accuracy. Cleaning up to max. 60°C is recommended to preserve marks and inscriptions.

Capacity ml	Tolerance ± ml	Height mm	PK	Cat. No.
10	0.200	135	1	9.274 080
25	0.500	160	1	9.274 081
50	1.000	195	1	9.274 082
100	1.000	240	1	9.274 083
250	2.000	320	1	9.274 084
500	5.000	380	1	9.274 085
1000	10.000	465	1	9.274 086



2 Measuring cylinders, PP, tall form, class B, moulded graduations



ISOLAB

- Manufactured from ultra clear, virgin polypropylene and its thick walls eliminate distortion.
- They offer high transparency, chemical resistance and remarkable heat tolerance.
- They meet the highest quality standards according to DIN 12681 and ISO 6706.
- Individually calibrated through automatic calibration process carried out by robots.
- Permanent quality control through all steps eliminate possible deviations from nominal values.
- Cylinders are calibrated to contain (In) and the tolerances are according to DIN/ISO Class "B" standards.
- Graduations are embossed and specially designed for plastic and resistant to 60°C.
- For consistent accuracy, polypropylene measuring cylinders should not be used with liquids over 60°C and should not be kept under direct sunlight or overheated conditions.

Capacity ml	Tolerance ± ml	Grad. ml	Height mm	PK	Cat. No.
10	0.2	0.2	135	1	6.243 541
25	0.5	0.5	160	1	6.243 542
50	1.0	1.0	195	1	6.243 543
100	1.0	1.0	240	1	6.243 544
250	2.0	2.0	320	1	6.243 545
500	5.0	5.0	380	1	6.243 546
1000	10.0	10.0	465	1	6.243 547



3 Graduated cylinders, PP, tall form, class B, embossed scale



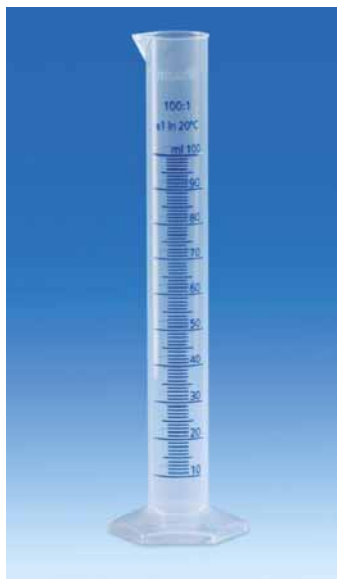
BRAND

Transparent. Exposure to temperatures up to 80°C will not cause permanent exceeding of tolerance limits! Cleaning temperature below 60°C is recommended to preserve marks and inscriptions.

- DIN 12681 and ISO 6706
- Calibrated to contain (TC, In)

Capacity ml	Type	Grad. ml	Tolerance ± ml	Height mm	PK	Cat. No.
10	With batch certificate	0.2	0.2	145	1	9.274 760
25	With batch certificate	0.5	0.5	170	1	9.274 761
50	With batch certificate	1.0	1.0	200	1	9.274 762
100	With batch certificate	1.0	1.0	250	1	9.274 763
250	With batch certificate	2.0	2.0	315	1	9.274 764
500	With batch certificate	5.0	5.0	360	1	9.274 765
1000	With batch certificate	10.0	10.0	440	1	9.274 766
2000	With batch certificate	20.0	20.0	535	1	9.274 767



1

1 Measuring cylinders, PP, tall form, class B, blue moulded graduations

VITLAB



Highly transparent. With easily readable, raised, embossed blue scale and ring marks at the primary scale points. Calibrated 'In'. Class B tolerances according to DIN 12681/ISO 6706. Hexagonal base with bottom studs provides high stability. Thermal stress up to 80°C does not cause tolerance limits to be permanently exceeded. To preserve markings, do not clean at temperatures exceeding 60°C. Food-safe product according to regulation (EU) No. 10/2011.

Capacity	Grad.	Tolerance	Diam.	Height	PK	Cat. No.
ml	ml	± ml	mm	mm		
10	0.20	0.2	15	145	1	9.274 408
25	0.50	0.5	22	170	1	9.274 409
50	1.00	1.0	27	200	1	9.274 410
100	1.00	1.0	33	250	1	9.274 411
250	2.00	2.0	44	315	1	9.274 412
500	5.00	5.0	58	360	1	9.274 413
1000	10.00	10.0	69	440	1	9.274 414
2000	20.00	20.0	97	482	1	9.274 415

2

2 Measuring cylinders, PP, tall form, class B, moulded graduations

VITLAB



Tall form. Highly transparent. With a raised scale and ring marks at the primary scale points, calibrated 'In'. Class B tolerances according to DIN 12681/ISO 6706. Hexagonal base with bottom studs provides high stability. Thermal stress up to 80°C does not cause tolerance limits to be permanently exceeded. Food-safe product according to regulation (EU) No. 10/2011.

Capacity	Grad.	Tolerance	Diam.	Height	PK	Cat. No.
ml	ml	± ml	mm	mm		
10	0.20	0.2	15	145	1	7.075 031
25	0.50	0.5	22	170	1	9.274 420
50	1.00	1.0	27	200	1	9.274 428
100	1.00	1.0	33	250	1	9.274 438
250	2.00	2.0	44	315	1	9.274 448
500	5.00	5.0	58	360	1	9.274 454
1000	10.00	10.0	69	440	1	9.274 462
2000	20.00	20.0	97	482	1	9.274 464

3

3 Measuring cylinders, PP, with handle, moulded graduations

Bel-Art Products



The large handle provides a secure grip for safer, more controlled and convenient pouring. A double scale is accurate and easy to read. The wide hexagonal base prevents tip over and rolling on the benchtop. One litre and two litre sizes. Autoclavable at 121°C

Capacity	Height	PK	Cat. No.
ml	mm		
1000	440	1	7.638 738
2000	490	1	9.274 870

1 Measuring cylinders, PMP, tall form, class A, blue graduations



BRAND

Clear. Exposure to temperatures up to 121 °C (autoclaving) will not cause permanently exceeded error limits. Cleaning at temperatures below 60°C is recommended to preserve graduations and inscriptions. Class A tolerance is not affected even after 20 washes and 10 autoclave treatments. (DIN 12681 requires: 10 washes and 3 autoclave treatments). Supplied with batch number and one batch certificate per packing unit. On request, they are also available with an individual certificate, USP individual certificate or DAkkS calibration certificate. Batch and individual certificates can also be downloaded at the supplier's website.

- DIN 12681 and ISO 6706
- DE-M marking
- With blue printed graduations and inscriptions



Capacity	Type	Grad.	Tolerance	Height	PK	Cat. No.
ml		ml	A ± ml	mm		
10	With batch certificate	0.2	0.10	145	1	9.274 790
25	With batch certificate	0.5	0.25	170	1	9.274 791
25	With DAkkS calibration certificate	0.5	0.25	170	1	6.222 951
50	With batch certificate	1	0.5	200	1	9.274 792
50	With individual certificate	1	0.5	200	2	6.290 030
100	With batch certificate	1	0.5	250	1	9.274 793
250	With batch certificate	2	1.0	315	1	9.274 794
500	With batch certificate	5	2.5	360	1	9.274 795
1000	With batch certificate	10	5	440	1	9.274 796
2000	With batch certificate	20	10	535	1	9.274 797

2 Measuring cylinders, SAN, low form, class B, moulded graduations



VITLAB

Short form. Crystal clear. With a raised scale and ring marks at the primary scale points, calibrated IN. Thermal stress up to 60 °C does not cause tolerance limits to be permanently exceeded. Food-safe product according to regulation (EU) No. 10/2011.

Capacity	Grad.	Tolerance	Diam.	Height	PK	Cat. No.
ml	ml	± ml	mm	mm		
50	1,00	1,00	27	142	1	7.060 691
100	2,00	2,00	37	163	1	7.008 999
250	5,00	5,00	51	192	1	7.060 692
500	10,00	10,00	67	218	1	7.060 693
1000	20,00	20,00	78	285	1	7.060 694



3 Measuring cylinders, SAN, tall form, class B, moulded graduations

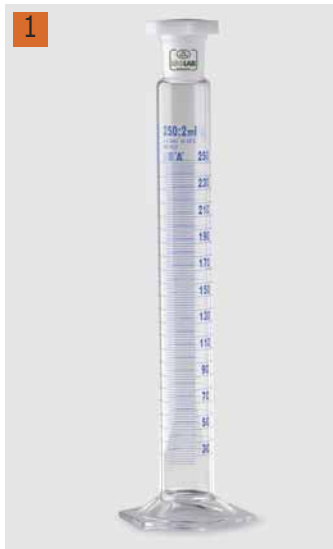


VITLAB

Tall form. Crystal clear. With a raised scale and ring marks at the primary scale points, calibrated IN. Class B tolerances according to DIN 12681/ISO 6706. Hexagonal base with bottom studs provides high stability. Thermal stress up to 60 °C does not cause tolerance limits to be permanently exceeded. Food-safe product according to regulation (EU) No. 10/2011.

Capacity	Grad.	Tolerance	Diam.	Height	PK	Cat. No.
ml	ml	± ml	mm	mm		
50	1,00	1,00	28	199	1	7.009 011
100	1,00	1,00	34	260	1	7.009 014
250	2,00	2,00	47	315	1	7.009 017
500	5,00	5,00	61	350	1	7.009 020
1000	10,00	10,00	76	415	1	7.009 023



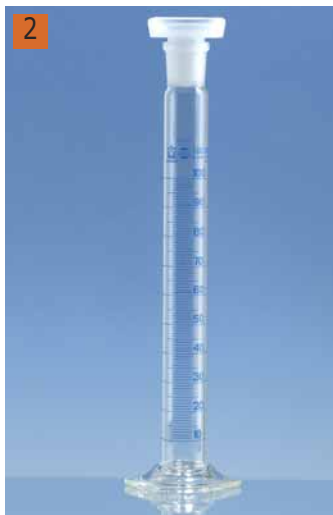


1 Mixing cylinders, borosilicate glass 3.3, tall form, class A, blue graduated

- Conformity certified
- DIN EN ISO 4788
- With PE-stopper
- Hexagonal foot
- Inscriptions are printed with blue enamel
- Batch certificate can be downloaded from website

ISOLAB

Capacity	Tolerance	Max. height	PK	Cat. No.
ml	± ml	mm		
10	0.100	160	1	9.275 070
25	0.250	195	1	9.275 071
50	0.500	230	1	9.275 072
100	0.500	290	1	9.275 073
250	1.000	370	1	9.275 074
500	2.500	410	1	9.275 075
1000	5.000	520	1	9.275 076



2 Mixing cylinders, borosilicate glass 3.3, tall form, class A, blue graduated

All BLAUBRAND® cylinders are supplied with batch number and one batch certificate per packing unit. On request, they are also available with an individual certificate, USP individual certificate or DAkkS calibration certificate. Batch and individual certificates can also be downloaded at the supplier's website.

BRAND

- BLAUBRAND®
- DIN EN ISO 4788
- DE-M marking
- PP stoppers and hexagonal foot
- Graduations and inscriptions in highly contrasting blue enamel
- Calibrated to contain (IN)

Capacity	Type	Grad.	Height	Neck	PK	Cat. No.
ml		ml	mm	NS		
10	With batch certificate	0,2	160	10/19	1	9.275 208
25	With batch certificate	0,5	190	14/23	1	9.275 220
50	With batch certificate	1	220	19/26	1	9.275 228
50	With individual certificate	1	220	19/26	2	6.290 029
100	With batch certificate	1	285	24/29	1	9.275 238
250	With batch certificate	2	350	29/32	1	9.275 248
250	With DAkkS calibration certificate	2	350	29/32	1	6.269 685
500*	With batch certificate	5	395	34/35	1	9.275 254
1000*	With batch certificate	10	500	45/40	1	9.275 262

* Fitted with PE octagonal stoppers.



3 Mixing cylinders, borosilicate glass 3.3, stoppered, class B, amber graduated

SILBERBRAND Eterna. Class B. To DIN EN ISO 4788.

BRAND

With PP stoppers and hexagonal foot. Graduations and inscriptions in Eterna amber stain. Calibrated to contain (IN). Height given is overall height without stopper

Capacity	Grad.	Height	Joint size (NS)	PK	Cat. No.
ml	ml	mm			
10	0.2	160	10/19	1	9.275 008
25	0.5	190	14/23	1	9.275 020
50	1.0	220	19/26	1	9.275 028
100	1.0	285	24/29	1	9.275 038
250	2.0	350	29/32	1	9.275 048
500*	5	395	34/35	1	9.275 054
1000*	10	500	45/40	1	9.275 062

* Fitted with PE octagonal stoppers.

1 Volumetric trapezoidal flasks, Borosilicate glass 3.3, class A, blue graduated NEW

- Conformity certified, with batch certificate
- DIN EN ISO 1042
- With NS and PE stoppers

ISOLAB

Nominal capacity ml	Joint size (NS)	PK	Cat. No.
1	7/16	2	4.678 051
2	7/16	2	4.678 052
3	7/16	2	4.678 053
4	7/16	2	4.678 054
5	7/16	2	4.678 036
10	10/19	2	4.678 055
20	10/19	2	4.678 056
25	10/19	2	4.678 057
50	12/21	2	4.678 037



2 Volumetric trapezoidal flasks, DURAN®, class A, blue graduation, with PE stopper

IN (TD) calibrated. With dated batch identification. Declaration of conformity acc. to DIN 12600. Hirschmann
 NS ground with poly stopper. Ring mark and graduation in high contrasting blue enamel.
 According to DIN EN ISO 1042.

For those products batch calibration reports, which are free of charge, can be generated and printed on www.hirschmannlab.com. Additional single calibration reports or DAkkS certificates (former DKD calibration reports) are available.

Capacity ml	Tolerance ± ml	Height mm	Joint size (NS)	PK	Cat. No.
1	0.025	60	7/16	1	9.276 645
2	0.025	70	7/16	1	9.276 646
5	0.025	70	7/16	1	9.276 647
5*	0.04	70	10/19	1	9.276 648
10	0.025	90	7/16	1	9.276 649
10*	0.04	90	10/19	1	9.276 650
20	0.04	110	10/19	1	9.276 651
25	0.04	110	10/19	1	9.276 652
50	0.06	140	12/21	1	9.276 653

* wide neck.



3 Volumetric trapezoidal flasks, borosilicate glass 3.3, class A, blue graduations

All BLAUBRAND® volumetric flasks are delivered with batch number and one batch certificate included per pack. Also available with individual works or DAkkS calibration certificate, please enquire. BRAND

BLAUBRAND® volumetric flasks (except wide-neck flasks). Individual and batch works, USP calibration certificates are also available on request. Models with glass stoppers available on request. The batch certificate is also available to download from the supplier's website.

- DIN EN ISO 1042
- DE-M marking
- Graduations and inscriptions in highly contrasting blue enamel
- Calibrated to contain (IN)

Nominal capacity ml	Tolerance ± ml	Joint size (NS)	Description	PK	Cat. No.
1	0.025	7/16	With PP stoppers, incl. one batch certificate	1	9.276 001
2	0.025	7/16	With PP stoppers, incl. one batch certificate	1	9.276 002
5	0.025	7/16	With PP stoppers, incl. one batch certificate	1	9.276 003
10 *	0.04	10/19	With PP stoppers, incl. one batch certificate	1	9.276 004
20	0.04	10/19	With PP stoppers, incl. one batch certificate	1	9.276 006
25	0.04	10/19	With PP stoppers, incl. one batch certificate	1	9.276 007
50	0.06	12/21	With PP stoppers, incl. one batch certificate	1	9.276 008

* Wide neck version





1 Volumetric flasks, borosilicate glass 3.3, class A, blue graduated, with PE stoppers

Borosilicate glass 3.3. Conformity certified, with batch certificate. With NS and PE stoppers, to DIN EN ISO 1042. Calibrated to contain (IN) and all the tolerances are according to DIN/ISO Class A standards.

ISOLAB

Capacity	Tolerance	Joint size (NS)	PK	Cat. No.
ml	± ml			
5	0,025	10/19	1	9.276 600
10	0,025	10/19	1	9.276 601
20	0,040	10/19	1	9.276 602
25	0,040	10/19	1	9.276 603
25	0,060	12/21	1	4.008 300
50	0,060	12/21	1	9.276 604
50	0,060	14/23	1	9.276 605
100	0,100	12/21	1	9.276 606
100	0,100	14/23	1	9.276 607
150	0,150	14/23	1	6.241 814
200	0,150	14/23	1	9.276 608
250	0,150	14/23	1	9.276 609
300	0,200	14/23	1	4.008 301
400	0,200	19/26	1	4.008 302
500	0,250	19/26	1	9.276 610
1000	0,400	24/29	1	9.276 611
2000	0,600	29/32	1	9.276 612
5000	1,200	34/35	1	9.276 613
10000	2,000	45/40	1	9.276 614



2 Volumetric flasks, borosilicate glass 3.3, class A, blue graduated, with PE stoppers, coated

NEW

The flasks are coated with a special formulated coating that holds the broken parts together in case of breakage. The transparent coating can resist up to 135°C with maximum period of 30 minutes. Coated flasks should not be exposed directly to open flame.

ISOLAB

- Conformity certified, with batch certificate
- DIN EN ISO 1042
- Calibrated to contain (IN)

Nominal capacity	Joint size (NS)	PK	Cat. No.
ml			
5	10/19	2	4.678 019
10	10/19	2	4.678 020
20	10/19	2	4.678 021
25	10/19	2	4.678 022
25	12/21	2	4.678 023
50	12/21	2	4.678 024
50	14/23	2	4.678 025
100	12/21	2	4.678 026
100	14/23	2	4.678 027
150	14/23	2	4.678 028
200	14/23	2	4.678 029
250	14/23	2	4.678 030
300	14/23	2	4.678 031
400	19/26	2	4.678 032
500	19/26	2	4.678 033
1000	24/29	2	4.678 034
2000	29/32	2	4.678 035



1 Volumetric Flasks, Borosilicate Glass 3.3, Class A, Blue Graduations, with PP-/PE-stoppers

All BLAUBRAND® volumetric flasks are delivered with batch number and one batch certificate included per pack. Also available with individual works or DAKKS (former DKD) calibration certificate, please enquire.

BRAND

- DIN EN ISO 1042
- DE-M marking
- Ring marks and inscriptions in highly contrasting blue enamel
- Calibrated to contain (IN)

Capacity ml	Tolerance ± ml	Joint size (NS)	Cover type	PK	Cat. No.
5 *	0.04	10/19	PP	1	9.276 438
10 *	0.025	7/16	PP	1	6.272 008
10 *	0.04	10/19	PP	1	9.276 443
20	0.04	10/19	PP	1	9.276 446
20 *	0.06	12/21	PP	1	6.239 438
25	0.04	10/19	PP	1	9.276 447
25 *	0.06	12/21	PP	1	4.000 074
50	0.06	12/21	PP	1	9.276 448
50 *	0.10	14/23	PP	1	9.276 456
100	0.10	12/21	PP	1	9.276 449
100	0.10	14/23	PP	1	9.276 457
200	0.15	14/23	PP	1	9.276 450
250	0.15	14/23	PP	1	9.276 451
500	0.25	19/26	PP	1	9.276 452
1000	0.40	24/29	PP	1	9.276 453
2000	0.60	29/32	PP	1	9.276 454
5000	1.20	34/35	PE	1	9.276 455
1000 *	0.60	28/32	PP	1	7.408 401
10000**	2.00	45/40	PE	1	9.276 436

*Wide mouth

**Supplementary to DIN.

1

**2** Volumetric flasks, DURAN®, class A, blue graduation, with PE stoppers

IN (TD) calibrated. With dated batch identification. Declaration of conformity acc. to DIN 12600. With NS ground and polystopper. Ring mark and graduation in durable blue enamel, acc. to DIN EN ISO 1042.

Hirschmann

For those products batch calibration reports, which are free of charge, can be generated and printed on www.hirschmannlab.com. Additional single calibration reports or DAKKS certificates (former DKD calibration reports) are available.

Capacity ml	Tolerance ± ml	Height mm	Joint size (NS)	PK	Cat. No.
5	0.025	70	7/16	1	9.276 680
5 **	0.04	70	10/19	1	9.276 681
10	0.025	90	7/16	1	9.276 682
10 **	0.04	90	10/19	1	9.276 683
20	0.04	110	10/19	1	9.276 684
20 **	0.06	105	12/21	1	9.276 679
25	0.04	110	10/19	1	9.276 685
25 **	0.06	110	12/21	1	9.276 686
50	0.06	140	12/21	1	9.276 687
50 **	0.08	140	14/23	1	9.276 688
100	0.1	170	12/21	1	9.276 689
100	0.1	170	14/23	1	9.276 690
200	0.15	210	14/23	1	9.276 691
250	0.15	220	14/23	1	9.276 692
500	0.25	260	19/26	1	9.276 693
1000 **	0.6	300	29/32	1	9.276 694
1000	0.4	300	24/29	1	9.276 695
2000	0.6	370	29/32	1	9.276 696
5000	1.2	470	34/35	1	9.276 697
10000*	2.0	570	45/40	1	9.276 698

* Supplementary to DIN.

**Wide neck.

Also available with dated batch identification acc. to USP (US Pharmacopeia)

2



1

1

Volumetric flasks, DURAN®, class A, blue graduation, with hollow glass stopper

IN (TD) calibrated. With dated batch identification. Declaration of conformity acc. to DIN 12600. NS ground with glass stopper. Ring mark and graduation in high contrasting blue enamel.

Hirschmann

According to DIN EN ISO 1042.

For those products batch calibration reports, which are free of charge, can be generated and printed on www.hirschmannlab.com. Additional single calibration reports or DAkkS certificates (former DKD calibration reports) are available.

Capacity ml	Tolerance ± ml	Height mm	Joint size (NS)	PK	Cat. No.
5	0.025	70	7/16	1	9.276 470
5**	0.04	70	10/19	1	9.276 471
10	0.025	90	7/16	1	9.276 472
10**	0.04	90	10/19	1	9.276 473
20	0.04	110	10/19	1	9.276 474
20**	0.06	105	12/21	1	9.276 489
25	0.04	110	10/19	1	9.276 475
25**	0.06	110	12/21	1	9.276 476
50	0.06	140	12/21	1	9.276 477
50**	0.08	140	14/23	1	9.276 478
100	0.1	170	12/21	1	9.276 479
100	0.1	170	14/23	1	9.276 480
200	0.15	210	14/23	1	9.276 481
250	0.15	220	14/23	1	9.276 482
500	0.25	260	19/26	1	9.276 483
1000**	0.6	300	29/32	1	9.276 484
1000	0.4	300	24/29	1	9.276 485
2000	0.6	370	29/32	1	9.276 486
5000	1.2	470	34/35	1	9.276 487
10000*	2.0	570	45/40	1	9.276 488

* Supplementary to DIN.

**wide neck.

2

2

Volumetric Flasks, Borosilicate Glass 3.3, Class A, Blue Graduations, with Glass Stoppers

All BLAUBRAND® volumetric flasks are delivered with batch number and one batch certificate included per pack. Also available with individual works or DAkkS (former DKD) calibration certificate, please enquire.

BRAND

- DIN EN ISO 1042

- DE-M marking

- Ring marks and inscriptions in highly contrasting blue enamel

- Calibrated to contain (IN)

Nominal capacity ml	Tolerance ± ml	Joint size (NS)	PK	Cat. No.
5 *	0.04	10/19	1	7.018 535
10 *	0.04	10/19	1	7.018 546
20	0.04	10/19	1	7.018 536
20 *	0.06	12/21	1	6.238 693
25	0.04	10/19	1	7.018 537
25 *	0.06	12/21	1	7.018 553
50	0.06	12/21	1	7.018 538
50 *	0.08	14/23	1	7.018 549
100	0.10	12/21	1	7.018 539
100	0.10	14/23	1	7.018 550
200	0.15	14/23	1	7.018 540
250	0.15	14/23	1	7.018 541
500	0.25	19/26	1	7.018 542
1000	0.4	24/29	1	7.018 543
2000	0.6	29/32	1	7.018 544
5000	1.2	34/35	1	7.018 545
5000	1.2	34/35	1	6.231 160

*Wide mouth



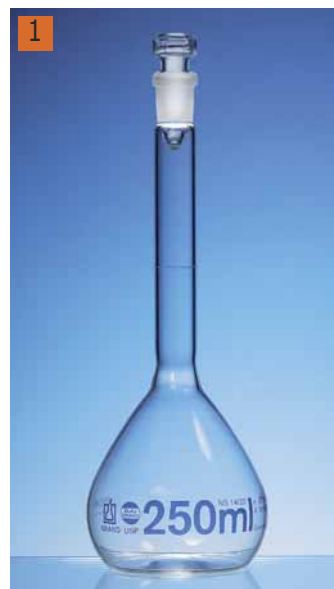
1 Volumetric flasks USP, borosilicate glass 3.3, class A, blue graduations

BLAUBRAND®, DIN EN ISO 1042, DE-M marking. Calibrated to contain (TC, IN).
 Marks and inscriptions in high contrast blue enamel. Incl. USP batch certificate.
 On request, also available with USP individual certificate.

BRAND

Capacity ml	Tolerance ± ml	Joint size (NS)	With	PK	Cat. No.
5	0.02	10/19*	PP stopper	1	6.231 839
10	0.02	10/19*	PP stopper	1	6.231 840
20	0.02	10/19*	PP stopper	1	6.231 841
25	0.03	10/19	PP stopper	1	6.231 842
50	0.05	12/21	PP stopper	1	6.231 843
100	0.08	14/23	PP stopper	1	6.229 183
200	0.10	14/23	PP stopper	1	6.231 844
250	0.12	14/23	PP stopper	1	6.231 845
500	0.20	19/26	PP stopper	1	6.231 846
1000	0.30	24/29	PP stopper	1	6.229 184
2000	0.50	29/32	PP stopper	1	6.231 849
5	0.02	10/19*	glass stopper	1	6.265 803
10	0.02	10/19*	glass stopper	1	6.265 769
20	0.02	10/19*	glass stopper	2	6.285 869
25	0.03	10/19	glass stopper	1	6.265 770
50	0.05	12/21	glass stopper	1	6.265 771
100	0.08	14/23	glass stopper	1	6.265 772
200	0.10	14/23	glass stopper	1	6.265 773
250	0.12	14/23	glass stopper	1	6.265 774
500	0.20	19/26	glass stopper	1	7.660 539
1000	0.50	24/29	glass stopper	1	7.659 410
2000	0.30	29/32	glass stopper	1	6.265 775

*additionally to ISO



2 Volumetric flasks, DURAN®, with beaded rim, class A, blue graduation

IN (TD) calibrated. With beaded rim and dated batch identification. Declaration of conformity acc. to DIN 12600. Ring mark and graduation in high contrasting blue enamel.

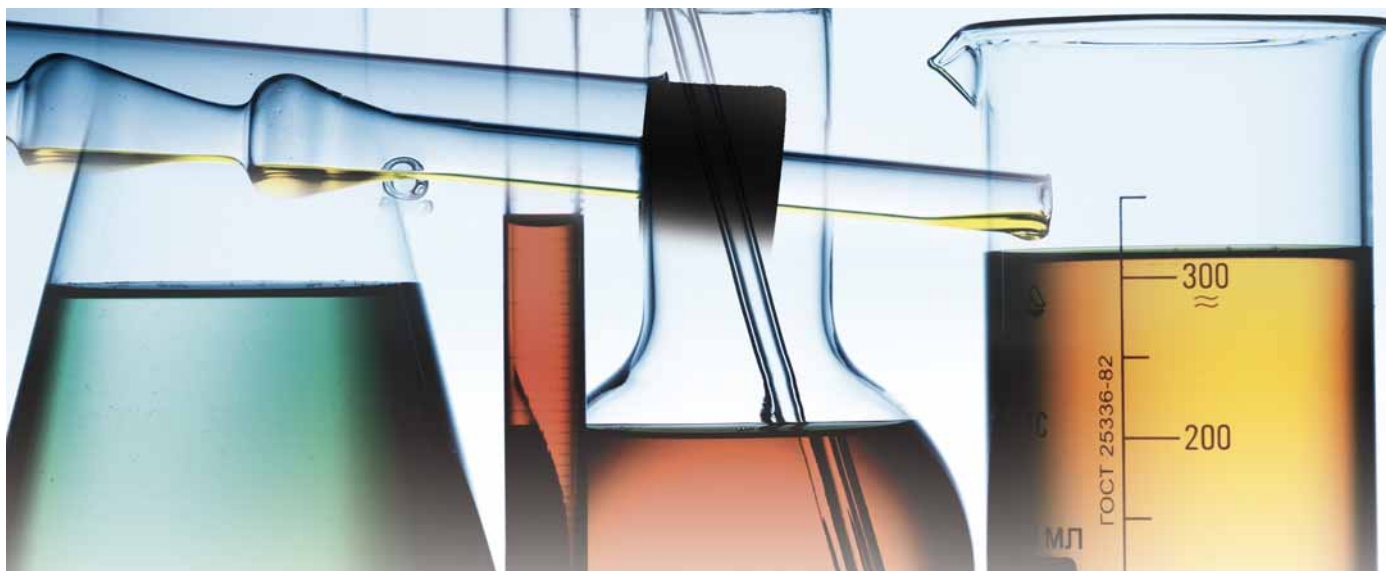
Hirschmann

According to DIN EN ISO 1042.

For those products, batch calibration reports, which are free of charge, can be generated and printed on www.hirschmannlab.com. Additional single calibration reports or DAkkS certificates (former DKD calibration reports) are available.

Capacity ml	Tolerance ± ml	Height mm	PK	Cat. No.
5	0.025	70	1	9.276 715
10	0.025	90	1	9.276 716
20	0.04	110	1	9.276 717
25	0.04	110	1	9.276 718
50	0.06	140	1	9.276 719
100	0.1	170	1	9.276 720
200	0.15	210	1	9.276 733
250	0.15	220	1	9.276 734
500	0.25	260	1	9.276 735
1000	0.4	300	1	9.276 736
2000	0.6	370	1	9.276 737
5000	1.2	470	1	9.276 738
10000*	2.0	570	1	9.276 739

* additional to DIN



1

1

Volumetric flasks, DURAN®, class A, amber stain graduation, with PE stoppers

IN (TD) calibrated. With dated batch identification. Declaration of conformity acc. to DIN 12600. NS ground with polystopper. With durable amber stain graduation. According to DIN EN ISO 1042.

Hirschmann

For those products batch calibration reports, which are free of charge, can be generated and printed on www.hirschmannlab.com. Additional single calibration reports or DAkkS certificates (former DKD calibration reports) are available.

Capacity ml	Tolerance ± ml	Height ± 5mm	NS	PK	Cat. No.
5	0,025	70	7/16	1	6.252 081
5*	0,04	70	10/19	1	9.276 758
10	0,025	90	7/16	1	6.240 839
10*	0,04	90	10/19	1	9.276 759
20	0,04	110	10/19	1	9.276 760
20*	0,06	105	12/21	1	6.250 442
25	0,04	110	10/19	1	9.276 761
25*	0,06	110	12/21	1	6.201 520
50	0,06	140	12/21	1	9.276 762
50*	0,08	140	14/23	1	9.276 763
100	0,1	170	12/21	1	9.276 764
100	0,1	170	14/23	1	9.276 765
200	0,15	210	14/23	1	9.276 766
250	0,15	220	14/23	1	9.276 767
500	0,25	260	19/26	1	9.276 768
1000*	0,6	300	19/32	1	6.260 422
1000	0,4	300	24/29	1	9.276 769
2000	0,6	370	29/32	1	9.276 770
5000	1,2	470	34/35	1	6.230 835
10000	2	570	45/40	1	6.260 423

* wide neck

2

2

Volumetric Flasks, Borosilicate Glass 3.3, Class A, Amber Graduations, with PP Stoppers

BLAUBRAND® Eterna. To DIN EN ISO 1042. DE-M marking. With batch number. Graduation and inscriptions in Eterna amber stain. Calibrated to contain (IN). PP stoppers.

BRAND

All BLAUBRAND® volumetric flasks are delivered with batch number and one batch certificate included per pack.

Also available with individual works or DAkkS (former DKD) calibration certificate, please enquire.

BLAUBRAND® volumetric flasks (except wide-neck flasks) are also available with individual and batch USP certification.

The batch certificate is also available to download from the manufacturer's website.

Capacity ml	Tolerance ± ml	Joint size (NS)	PK	Cat. No.
5 *	0,04	10/19	1	9.276 260
10 *	0,04	10/19	1	9.276 261
20	0,04	10/19	1	9.276 262
20 *	0,06	12/21	1	4.007 850
25	0,04	10/19	1	4.007 849
25 *	0,06	12/21	1	9.276 263
50	0,06	12/21	1	9.276 264
50 *	0,10	14/23	1	9.276 265
100	0,10	14/23	1	9.276 270
200	0,15	14/23	1	9.276 271
250	0,15	14/23	1	9.276 272
500	0,25	19/26	1	9.276 273
1000	0,40	24/29	1	9.276 274
2000	0,60	29/32	1	9.276 275

*Wide mouth



1 Volumetric flasks, borosilicate glass, amber, class A, white graduated, with PE stoppers

Amber Borosilicate glass with PE stoppers, DE-M marking, with batch certificate and white enamel graduations. According to DIN EN ISO 1042. Calibrated to contain (IN) and all the tolerances are according to DIN/ISO Class A standards.

ISOLAB

Capacity	Tolerance	Joint size (NS)	PK	Cat. No.
ml	± ml			
5	0,025	10/19	1	9.276 620
10	0,025	10/19	1	9.276 621
20	0,040	10/19	1	9.276 622
25	0,040	10/19	1	9.276 623
25	0,060	12/21	1	4.008 303
50	0,060	12/21	1	9.276 624
50	0,060	14/23	1	9.276 625
100	0,100	12/21	1	9.276 626
100	0,100	14/23	1	9.276 627
200	0,150	14/23	1	9.276 628
250	0,150	14/23	1	9.276 629
500	0,250	19/26	1	9.276 630
1000	0,400	24/29	1	9.276 631
2000	0,600	29/32	1	4.008 306



2 Volumetric Flasks, Borosilicate Glass 3.3, Class A, Amber Glass, White Graduation

BLAUBRAND®, DIN EN ISO 1042, DE-M marking. Calibrated to contain (TC, IN). Marks and inscriptions in high contrast white enamel. All BLAUBRAND® volumetric flasks are supplied with a batch number and an accompanying batch certificate in the original packaging. On request, they are also available with an individual certificate or DAkkS calibration certificate.

BRAND



7.018 562

Capacity	Tolerance	With	PK	Cat. No.
ml	± ml			
5 *	0.04	PP stoppers	1	7.018 554
10*	0.04	PP stoppers	1	7.018 555
20	0.04	PP stoppers	1	7.018 556
25	0.04	PP stoppers	1	7.018 557
50	0.06	PP stoppers	1	7.018 558
50*	0.08	PP stoppers	1	7.018 559
100	0.10	PP stoppers	1	7.018 560
200	0.15	PP stoppers	1	7.018 561
250	0.15	PP stoppers	1	7.018 562 2
500	0.25	PP stoppers	1	7.018 563
1000	0.4	PP stoppers	1	7.018 564
5 *	0.04	Glass stoppers	1	7.018 565
10*	0.04	Glass stoppers	1	7.018 566
20	0.04	Glass stoppers	1	7.018 568
25	0.04	Glass stoppers	1	7.018 569
50	0.06	Glass stoppers	1	7.018 570
50*	0.08	Glass stoppers	1	7.018 567
100	0.10	Glass stoppers	1	7.018 571
200	0.15	Glass stoppers	1	7.018 572
250	0.15	Glass stoppers	1	7.018 573 3
500	0.25	Glass stoppers	1	7.018 574
1000	0.4	Glass stoppers	1	7.018 575



7.018 573

*Wide mouth

1

1

Volumetric flasks, DURAN® amber glass, class A, with PE stopper

IN (TD) calibrated. Amber glass. With dated batch identification. Declaration of conformity acc. to DIN 12600. With NS and polystopper. Ring mark and graduation in durable white enamel, acc. to DIN EN ISO 1042.

Hirschmann

For these products batch calibration reports, which are free of charge, can be generated and printed on www.hirschmannlab.com. Additional single calibration reports or DAkkS certificates (former DKD calibration reports) are available.

Capacity ml	Tolerance ± ml	Height mm	Joint size (NS)	PK	Cat. No.
5	0.025	70	7/16	1	9.276 699
5*	0.04	70	10/19	1	9.276 700
10	0.025	90	7/16	1	9.276 701
10*	0.04	90	10/19	1	9.276 702
20	0.04	110	10/19	1	9.276 703
25	0.04	110	10/19	1	9.276 704
25*	0.06	110	12/21	1	9.276 710
50	0.06	140	12/21	1	9.276 705
50*	0.08	140	14/23	1	9.276 713
100	0.1	170	12/21	1	9.276 706
100	0.1	170	14/23	1	9.276 714
200	0.15	210	14/23	1	9.276 707
250	0.15	220	14/23	1	9.276 708
500	0.25	260	19/26	1	9.276 709
1000	0.4	300	24/29	1	9.276 711
2000	0.6	370	29/32	1	9.276 712

* Wide neck.

Also available with dated batch identification acc. to USP (US Pharmacopeia).

2

2

Volumetric flasks, DURAN® amber glass, class A, white graduation, with amber glass stopper

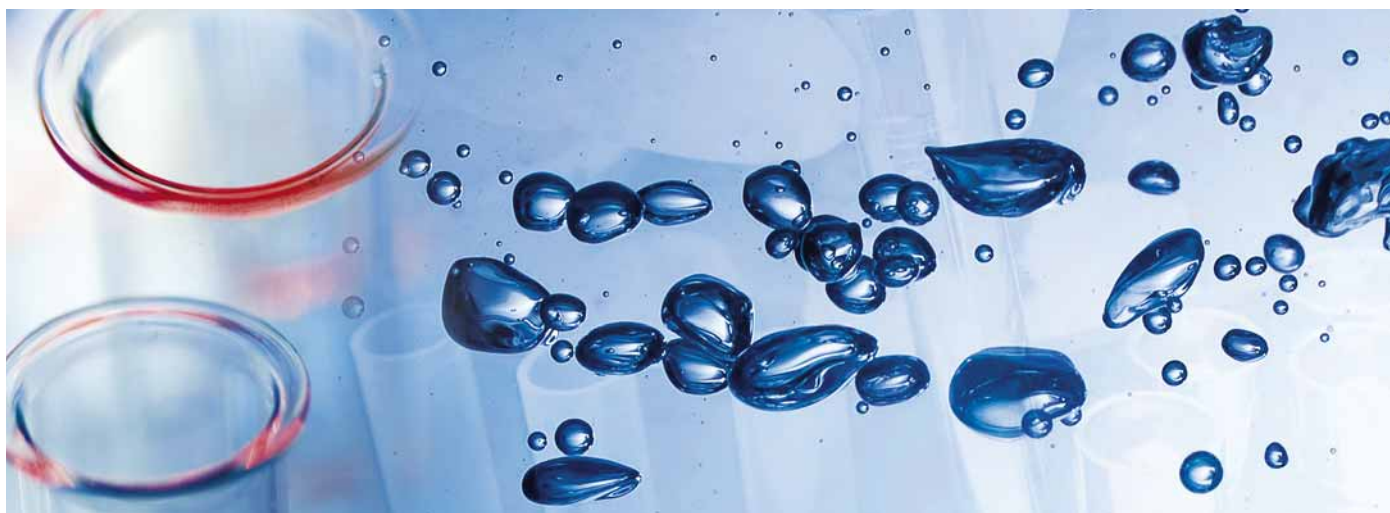
IN (TD) calibrated. With dated batch identification. Declaration of conformity acc. to DIN 12600. With hollow amber glass stopper. Ring mark and graduation in white enamel. According to DIN EN ISO 1042.

Hirschmann

For these products batch calibration reports, which are free of charge, can be generated and printed on www.hirschmannlab.com. Additional single calibration reports or DAkkS certificates (former DKD calibration reports) are available.

Capacity ml	Tolerance ± ml	Height mm	Joint size (NS)	PK	Cat. No.
5	0.025	70	7/16	1	9.276 500
5*	0.04	70	10/19	1	9.276 501
10	0.025	90	7/16	1	9.276 502
10*	0.04	90	10/19	1	9.276 503
20	0.04	110	10/19	1	9.276 504
25	0.04	110	10/19	1	9.276 505
50	0.06	140	12/21	1	9.276 506
50*	0.08	140	14/23	1	9.276 507
100	0.1	170	12/21	1	9.276 508
100	0.1	170	14/23	1	9.276 509
200	0.15	210	14/23	1	9.276 510
250	0.15	220	14/23	1	9.276 511
500	0.25	260	19/26	1	9.276 512
1000	0.4	300	24/29	1	9.276 513
2000	0.6	370	29/32	1	9.276 514

* Wide neck.



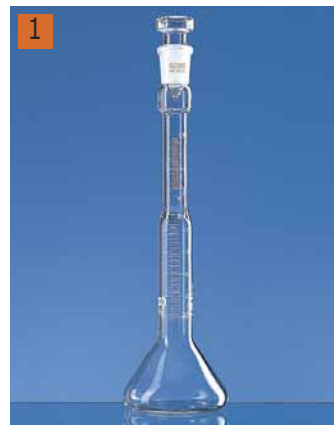
1 Volumetric flasks for determination of oil content, SILBERBRAND, Borosilicate glass 3.3

DIN 51 368. For determination of oil content in aqueous oil emulsions (e.g. drilling oil). With NS19/26, hollow glass stoppers. Graduations and inscriptions in highly contrasting white enamel. Capacity 100 ml, tolerance ± 0.2 ml. Calibrated to contain (IN).

BRAND

Subdivisions: 0 to 5 ml : 0.1 ml, tolerance: ± 0.1 ml.
Subdivisions: 5 to 30 ml : 0.5 ml, tolerance: ± 0.5 ml.

Sample volume ml	PK	Cat. No.
100	1	9.276 880

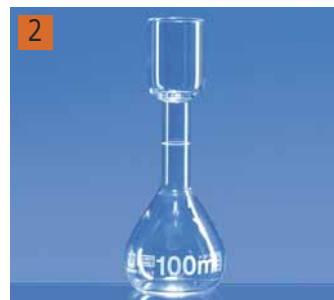


2 Volumetric flasks for sugar tests, Borosilicate glass 3.3, class B, white graduated

For sugar tests in the style of Kohlrausch. SILBERBRAND. Tolerance equivalent to class B. Ring marks and inscriptions in highly contrasting white enamel. Calibrated to contain (IN).

BRAND

Capacity ml	Tolerance \pm ml	PK	Cat. No.
100	0.2	1	9.276 885
200	0.3	1	9.276 887



3 Volumetric flasks, PMP, class A



VITLAB

With NS stoppers, PP. Highly transparent. With ring mark individually calibrated to (IN). Class A tolerances according to DIN EN ISO 1042. With printed lot number and batch certificate. Thermal stress up to 121°C (autoclaving) does not permanently exceed the tolerance limit. To preserve markings, do not clean at temperatures exceeding 60°C. On request also with DAKKS calibration certificate or single certificate.

Capacity ml	Tolerance \pm ml	Height mm	Stopper NS	PK	Cat. No.
10	0.04	90	10/19	1	9.276 949
25	0.04	115	10/19	1	9.276 950
50	0.06	150	12/21	1	9.276 951
100	0.10	180	14/23	1	9.276 952
250	0.15	235	19/26	1	9.276 953
500	0.25	270	19/26	1	9.276 954
1000	0.40	310	24/29	1	9.276 955



4 Volumetric Flasks, PMP, Class B, with PP Screw Cap



VITLAB

Volumetric flasks made of polymethylpentene. Highly transparent. Calibrated to contain (IN). DIN EN ISO 1042. Thermal stress up to 121°C (autoclaving) does not permanently exceed the tolerance limit. To preserve markings, do not clean at temperatures exceeding 60°C.

Capacity ml	Tolerance \pm ml	Thread GL	Height mm	PK	Cat. No.
100	0.20	18	180	1	7.009 038





9.276 973

Volumetric flasks VITLAB® UV-protect, PMP, Class A with NS stoppers, PP

VITLAB



UV-absorbing, highly transparent. For storage of light-sensitive substances.
 With ring mark individually calibrated to In'. Class A tolerances according to DIN EN ISO 1042.
 With printed lot number and batch certificate.
 Thermal stress up to 121°C (autoclaving) does not permanently exceed the tolerance limit.
 To preserve markings, do not clean at temperatures exceeding 60°C

Capacity ml	Tolerance ± ml	Height mm	NS	PK	Cat. No.
10	0.04	90	10/19	1	9.276 970
25	0.04	115	10/19	1	9.276 971
50	0.06	150	12/21	1	9.276 972
100	0.10	180	14/23	1	9.276 973 I
250	0.15	235	19/26	1	9.276 974
500	0.25	270	19/26	1	9.276 975
1000	0.40	310	24/29	1	9.276 976



2 Volumetric flasks, plastic, class B, PE NS-stoppers

To DIN EN ISO 1042, adjusted to IN, with PE standard ground joint stoppers.

ISOLAB

Capacity ml	Tolerance ± ml	Joint size (NS)	PK	Cat. No.
25	0,08	10/19	1	9.276 590
50	0,12	12/21	1	9.276 591
100	0,20	14/23	1	9.276 592
250	0,30	14/23	1	9.276 593
500	0,50	19/26	1	9.276 594
1000	0,80	24/29	1	9.276 595



3 Volumetric flasks, PP, Class B, NS-stoppers, PP

VITLAB



Ajusted to IN. Highly transparent. Class B tolerances according to DIN EN ISO 1042.
 Thermal stress up to 60 °C does not permanently exceed the tolerance limits.
 To preserve markings, do not clean at temperatures exceeding 60 °C.

Capacity ml	Tolerance ± ml	Height mm	Joint size (NS)	PK	Cat. No.
10	0.08	90	10/19	1	9.276 818
25	0.08	115	10/19	1	9.276 820
50	0.12	150	12/21	1	9.276 828
100	0.20	180	14/23	1	9.276 838
250	0.30	235	19/26	1	9.276 848
500	0.50	270	19/26	1	9.276 854
1000	0.80	310	24/29	1	9.276 862



4 Volumetric Flasks, PP, Class B, with Screw Cap, PP

VITLAB



Highly transparent. Class B tolerances according to DIN EN ISO 1042. Calibrated to IN.
 Do not clean at temperatures exceeding 60 °C.
 Thermal stress up to 60 °C cause no permanently exceed of the tolerance limit.

Capacity ml	Tolerance ± ml	Height mm	Neck thread GL	PK	Cat. No.
25	0.08	115	18	1	7.009 032
50	0.12	150	6	1	7.009 035
100	0.20	180	18	1	7.009 037
250	0.30	235	25	1	7.009 039
500	0.50	270	25	1	7.009 041
1000	0.80	310	32	1	7.009 043

1 LLG-Volumetric pipettes, soda glass, class AS, 1 mark, blue graduated **NEW**

- DIN EN ISO 648, DIN 12687
- Conformity-certified
- With batch date identification
- Calibrated to deliver (EX)
- Ring mark and inscriptions in permanent blue enamel

Nominal capacity ml	Tolerance ± ml	Length mm	PK	Cat. No.
1	0.007	310	10	6.272 207
2	0.010	330	10	6.272 208
3	0.010	360	10	6.272 209
4	0.015	360	10	6.272 210
5	0.015	400	10	6.272 211
10	0.020	440	10	6.272 212
15	0.030	455	10	6.272 213
20	0.030	510	10	6.272 214
25	0.030	520	10	6.272 215
50	0.050	540	10	6.272 216



2 Volumetric pipettes, soda glass, class AS, 1 mark, blue graduated

Soda glass. Conformity-certified. With batch date identification. ISOLAB
 DIN EN ISO 648, DIN 12687. Calibrated to deliver (EX).
 Ring mark and inscriptions in permanent blue enamel.

Volume ml	Tolerance ± ml	Length mm	PK	Cat. No.
1	0,008	315 ± 5	1	9.272 260
2	0,010	340 ± 5	1	9.272 261
3	0,010	360 ± 5	1	9.272 262
4	0,015	360 ± 5	1	9.272 263
5	0,015	390 ± 5	1	9.272 264
10	0,020	445 ± 5	1	9.272 265
11	0,020	445 ± 5	1	9.272 266
15	0,030	445 ± 5	1	9.272 267
20	0,030	515 ± 5	1	9.272 268
25	0,030	520 ± 5	1	9.272 269
50	0,050	530 ± 5	1	9.272 270



3 Volumetric pipettes, Soda-lime glass, class AS, 1 mark, blue graduation

EX (TD) calibrated. With dated batch identification. Declaration of conformity Hirschmann
 acc. to DIN 12600. One mark pipettes, graduation in high-contrast blue colour.
 Acc. to DIN EN ISO 648.
 For those products, batch calibration reports, which are free of charge, can be generated and printed on
 www.hirschmannlab.com. Additional single calibration reports or DAkkS certificates (former DKD calibration reports)
 are available.

Volume ml	Tolerance ± ml	Overall length ± 10 mm	PK	Cat. No.
1	0.008	325	1	9.273 270
2	0.01	350	1	9.273 271
2.5*	0.01	350	1	9.273 272
3*	0.01	350	1	9.273 273
5	0.015	410	1	9.273 276
10	0.02	450	1	9.273 280
15*	0.03	520	1	9.273 281
20	0.03	520	1	9.273 282
25	0.03	530	1	9.273 284
50	0.05	550	1	9.273 286
100	0.08	600	1	9.273 288

* Supplementary to DIN.





1 Volumetric pipettes, class AS, AR-glass®, 1 marking, blue graduation

All BLAUBRAND® volumetric pipettes are supplied with batch number and one batch certificate per manufacturer's outer pack (up to 2ml: 12 cylinders, above 2.5ml: 6 cylinders per pack). Also available with individual certificate or DAkkS (former DKD) calibration certificate, please enquire.

BRAND

- DIN EN ISO 648
- DE-M marking
- Graduations and inscriptions in highly contrasting blue enamel
- Calibrated to deliver (EX)

Nominal capacity ml	Tolerance ± ml	Overall length ± 10 mm	Description	PK	Cat. No.
0.5	0.005	300	Incl. one batch certificate	1	9.273 101
1.0	0.008	300	Incl. one batch certificate	1	9.273 102
2.0	0.010	330	Incl. one batch certificate	1	9.273 103
2.5	0.010	2,5	Incl. USP certificate	1	7.910 025
2.5	0.010	330	Incl. one batch certificate	1	9.273 104
3.0	0.010	330	Incl. one batch certificate	1	9.273 105
4.0	0.015	400	Incl. one batch certificate	1	9.273 106
5.0	0.015	400	Incl. one batch certificate	1	9.273 107
6.0	0.015	400	Incl. one batch certificate	1	9.273 108
7.0	0.015	400	Incl. one batch certificate	1	9.273 109
8.0	0.02	440	Incl. one batch certificate	1	9.273 110
9.0	0.02	440	Incl. one batch certificate	1	9.273 111
10.0	0.02	440	Incl. one batch certificate	1	9.273 112
15.0	0.03	510	Incl. one batch certificate	1	9.273 113
20.0	0.03	510	Incl. one batch certificate	1	9.273 114
25.0	0.03	520	Incl. one batch certificate	1	9.273 115
30.0	0.03	520	Incl. one batch certificate	1	9.273 116
40.0	0.05	540	Incl. one batch certificate	1	9.273 117
50.0	0.05	540	Incl. one batch certificate	1	9.273 118
100.0	0.08	585*	Incl. one batch certificate	1	9.273 119

* ±15 mm



2 Volumetric pipettes, USP, class AS, AR-glass®, blue graduation

BLAUBRAND®, DE-M marking. DIN EN ISO 648. Calibrated to deliver (TD, EX). Marks and inscriptions in high contrast blue enamel. Incl. one USP batch certificate. On request, also available with USP individual certificate or DAkkS certificate.

BRAND

The batch certificate or individual certificate is also available to download from the manufacturer's website.

Volume ml	Tolerance ± ml	Overall length ± 10 mm	PK	Cat. No.
0,5*	0.005	300	1	6.262 520
1	0.006	300	1	7.659 228
2	0.006	330	1	6.262 521
3	0.01	330	1	6.262 522
4	0.01	400	1	6.262 523
5	0.01	400	1	7.659 239
6	0.01	400	1	6.262 524
7	0.01	400	1	6.262 525
8	0.02	440	1	6.262 526
9	0.02	440	1	6.262 527
10	0.02	440	1	7.659 240
15	0.03	510	1	6.262 528
20	0.03	510	1	6.262 529
25	0.03	520	1	6.262 530
30	0.03	520	1	7.659 241
40	0.05	540	1	6.262 531
50	0.05	540	1	6.262 532
100	0.8	585 (±15mm)	1	7.659 242

* Error limit USP ±0.006ml

1 Volumetric pipettes, Soda-lime glass, class AS, 1 mark, amber stain graduation

EX (TD) calibrated. With dated batch identification. Declaration of conformity acc. to DIN 12600. With durable amber stain graduation, acc. to DIN EN ISO 648. *Hirschmann*
For those products, batch calibration reports, which are free of charge, can be generated and printed on www.hirschmannlab.com. Additional single calibration reports or DAkkS certificates (former DKD calibration reports) are available.

Volume ml	Tolerance ± ml	Overall length ± 10 mm	PK	Cat. No.
0,5	0.005	300	1	6.200 955
1	0.008	325	1	6.052 959
1,5*	0.01	350	1	7.200 075
2	0.01	350	1	6.092 721
2,5*	0.01	350	1	6.079 397
3*	0.01	350	1	6.303 738
4*	0.015	410	1	6.300 028
5	0.015	410	1	6.081 798
6*	0.015	410	1	6.300 025
7*	0.015	410	1	6.300 026
8*	0.02	450	1	6.077 361
9*	0.02	450	1	6.300 299
10	0.02	450	1	6.050 827
15*	0.03	520	1	6.057 100
20	0.03	520	1	6.084 029
25	0.03	530	1	6.084 072
30*	0.03	530	1	6.057 101
40*	0.05	550	1	6.077 366
50	0.05	550	1	6.054 343
100	0.08	600	1	6.055 472

* Supplementary to DIN.

Also available with dated batch identification acc. to USP (US Pharmacopeia).

2 Volumetric pipettes, AR-glas®, class AS, 1 mark, amber graduation

BLAUBRAND® Eterna. DIN EN ISO 648. Calibrated to deliver (TD, EX). DE-M marking. *BRAND*
Graduations and inscriptions in Eterna amber stain (particularly resistant to aggressive cleaning methods). All BLAUBRAND® bulb pipettes are supplied with a batch number and one batch certificate per manufacturer's outer pack. Also available with an individual works, USP, or DAkkS (former DKD) calibration certificate on request.

The batch certificate is also available to download from the supplier's website.

Volume ml	Tolerance ± ml	Overall length ± 10 mm	PK	Cat. No.
1	0.008	300	1	9.273 220
2	0.010	330	1	9.273 221
5	0.015	400	1	9.273 222
10	0.02	440	1	9.273 223
20	0.03	510	1	9.273 224
25	0.03	520	1	9.273 225
50	0.05	540	1	9.273 226

3 Volumetric pipettes, Soda-lime glass, class AS, 2 marks, amber stain graduation

EX (TD) calibrated. Volume between two marks (partial delivery). *Hirschmann*
With dated batch identification. Declaration of conformity acc. to DIN 12600.
Volume mark, ringmark and graduation in durable amber stain graduation, acc. to DIN EN ISO 648.
For those products, batch calibration reports, which are free of charge, can be generated and printed on www.hirschmannlab.com. Additional single calibration reports or DAkkS certificates (former DKD calibration reports) are available.

Volume ml	Tolerance ± ml	Overall length mm	PK	Cat. No.
0.5	0.005	300	1	6.801 018
1	0.008	325	1	6.801 019
2	0.01	350	1	6.801 020
3*	0.01	350	1	6.056 820
5	0.015	410	1	6.801 021
10	0.02	450	1	6.071 748
15*	0.03	520	1	6.225 909
20	0.03	520	1	6.801 022
25	0.03	530	1	6.801 023
50	0.05	550	1	6.801 024
100	0.08	600	1	6.800 124

* Supplementary to DIN.





1 Volumetric pipettes, AR-glas®, class AS, 2 marks, blue graduation

BLAUBRAND®. DE-M marking. DIN EN ISO 648. Adjusted to EX. Graduations and inscriptions in highly contrasting blue enamel. All BLAUBRAND® volumetric pipettes are supplied with batch number and one works batch certificate per manufacturer's outer pack. Also available with individual works or DAkkS (former DKD) calibration certificate on request. The batch certificate is also available to download from the supplier's website. BRAND

Volume ml	Tolerance ± ml	Overall length ± 10 mm	PK	Cat. No.
0.5	0.005	300	1	9.273 121
1.0	0.008	300	1	9.273 122
2.0	0.010	330	1	9.273 123
3.0	0.010	330	1	9.273 125
5.0	0.015	400	1	9.273 127
10.0	0.02	440	1	9.273 132
15.0	0.03	510	1	9.273 133
20.0	0.03	510	1	9.273 134
25.0	0.03	520	1	9.273 135
50.0	0.05	540	1	9.273 138



2 Volumetric pipettes, Soda-lime glass, 1 mark, class B, amber stain graduation

EX (TD) calibrated. Tolerances better than class B requirements. With durable amber stain graduation, acc. to DIN EN ISO 648. Hirschmann

Volume ml	Tolerance ± ml	Overall length ± 10 mm	PK	Cat. No.
0.5	0.008	300	1	9.273 258
1	0.012	325	1	9.273 259
2	0.015	350	1	9.273 260
3*	0.015	350	1	9.273 261
4*	0.023	410	1	9.273 257
5	0.023	410	1	9.273 262
10	0.03	450	1	9.273 263
15*	0.045	520	1	9.273 264
20	0.045	520	1	9.273 265
25	0.045	530	1	9.273 266
50	0.075	550	1	9.273 268
100	0.12	600	1	9.273 269

* Supplementary to DIN.



3 Volumetric pipettes, Class B, AR-glass®, amber graduation

SILBERBRAND Eterna. DIN EN ISO 648. Graduations and inscriptions in Eterna permanent amber diffusion stain. Adjusted to EX. BRAND

Volume ml	Tolerance ± ml	Overall length ± 10 mm	PK	Cat. No.
0.5	0.007	300**	1	6.254 546
0.5	0.007	300	1	9.273 001
1	0.010	300	1	9.273 002
2	0.015	330	1	9.273 003
5	0.025	400	1	9.273 007
10	0.03	440	1	9.273 012
20	0.04	510	1	9.273 014
25	0.04	520	1	9.273 015
50	0.07	540	1	9.273 018
100	0.12	585*	1	9.273 019

* ±15 mm

**Incl. DAkkS calibration certificate



4 Volumetric pipettes, PP, 1 mark

Highly translucent. Streak-resistant, blue-printed graduations and inscriptions. Adjusted to EX. Exposure to temperatures up to 60°C will not affect tolerances. Cleaning at temperatures below 60°C is recommended to preserve graduations and inscriptions. BRAND

Volume ml	Tolerance ± ml	Overall length ± 10 mm	PK	Cat. No.
1	0.02	300	1	9.273 232
2	0.02	300	1	9.273 233
5	0.03	300	1	9.273 235
10	0.04	440	1	9.273 236
25	0.06	450	1	9.273 238
50	0.1	460	1	9.273 239

1 LLG-Graduated pipettes, soda glass, class AS, type 3

NEW

- DIN EN ISO 835, DIN 12699
- Conformity-certified
- With batch date identification
- Calibrated to deliver (EX)
- Ring marks and graduations in permanent blue enamel

Nominal capacity ml	Graduations ml	Tolerance ± ml	Length mm	PK	Cat. No.
1	0.01	0.007	360	10	6.272 200
2	0.02	0.01	360	10	6.272 201
5	0.05	0.03	360	10	6.272 202
10	0.1	0.05	360	10	6.272 203
20	0.1	0.1	450	10	6.272 204
25	0.1	0.1	450	10	6.272 205
50	0.1	0.2	720	10	6.272 206

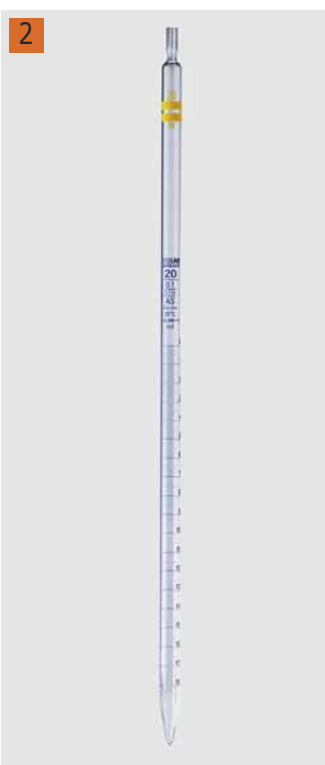


2 Graduated pipettes, soda glass, class AS, type 3

Soda glass. Conformity-certified. With batch date identification.
DIN EN ISO 835, DIN 12699. Calibrated to deliver (EX).
Ring marks and graduations in permanent blue enamel.

ISOLAB

Volume ml	Graduations ml	Tolerance ± ml	Length mm	PK	Cat. No.
1	0.01	0.007	360 ± 5	10	4.672 377
2	0.02	0.010	360 ± 5	10	4.672 378
5	0.05	0.030	360 ± 5	10	4.672 379
10	0.1	0.050	360 ± 5	10	4.672 380
20	0.1	0.100	450 ± 5	10	4.672 381
25	0.1	0.100	450 ± 5	10	4.672 382
50	0.1	0.200	720 ± 5	10	4.672 383



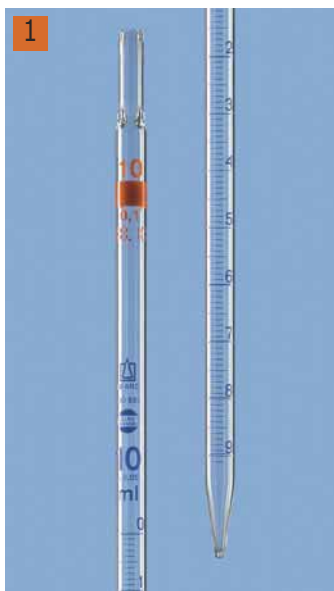
3 Graduated pipettes, Soda-lime glass, class AS , blue graduation, type 3

EX (TD) calibrated. Main point ring graduation. With dated batch identification. *Hirschmann*
Declaration of conformity acc. to DIN 12600. Main point ring graduation.
High-contrast blue graduation. Graduated to the tip, zero on top. Type 3, acc. to DIN EN ISO 835.
From 5ml with cotton plug end as standard.
For those products batch calibration reports, which are free of charge, can be generated and printed on www.hirschmannlab.com. Additional single calibration reports or DAkkS certificates (former DKD calibration reports) are available.

Volume ml	Grad. ml	Tolerance ± ml	Overall length ± 5 mm	PK	Cat. No.
0.5	0.01	0.006	360	1	9.272 380
1	0.01	0.007	360	1	9.272 381
1	0.10	0.007	360	1	9.272 382
2*	0.01	0.01	360	1	9.272 383
2	0.02	0.01	360	1	9.272 384
2	0.10	0.01	360	1	9.272 385
5	0.05	0.03	360	1	9.272 387
5	0.10	0.03	360	1	9.272 388
10	0.10	0.05	360	1	9.272 389
20	0.10	0.1	360	1	9.272 390
25	0.10	0.1	450	1	9.272 391
50*	0.20	0.2	450	1	9.272 392

* Supplementary to DIN





1 Graduated pipettes, AR-GLAS®, class AS, blue graduation

All BLAUBRAND® graduated pipettes are supplied with batch number and one batch certificate per packing unit. On request, they are also available with an individual certificate, USP individual certificate or DAkkS calibration certificate. Batch and individual certificates can also be downloaded at the supplier's website.

BRAND

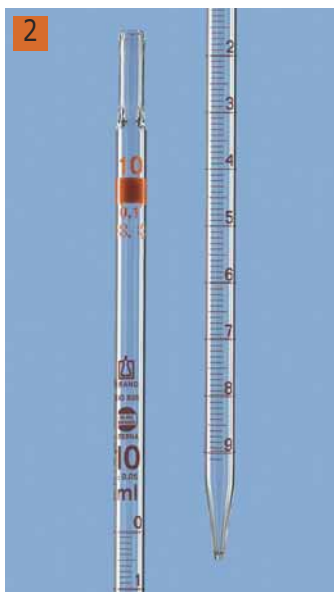
- BLAUBRAND®
- Type 3 (zero at top)
- DIN EN ISO 835
- DE-M marking
- Ring mark and inscriptions in high contrast, blue enamel
- Calibrated to deliver (Ex)
- Waiting time 5 sec.

Volume ml	Grad. ml	Tolerance ± ml	Length (± 10mm) mm	PK	Cat. No.
0.5	0.01	0.006	360	1	9.272 105
1	0.01	0.007	360	1	9.272 106
1***	0.01	0.007	360	1	9.272 117
1	0.1	0.007	360	1	9.272 107
2**	0.01	0.010	360	1	9.272 108
2	0.02	0.010	360	1	9.272 109
2***	0.02	0.010	360	1	9.272 118
2	0.1	0.010	360	1	9.272 110
5***	0.05	0.030	360	1	9.272 111
5***	0.1	0.030	360	1	9.272 112
10***	0.1	0.05	360	1	9.272 113
20***	0.1	0.10	360	1	9.272 114
25***	0.1	0.10	450	1	9.272 115
50* ***	0.5	0.2	450	1	9.272 116
5	0.05	0.030	360	1	6.251 046

* Supplementary to ISO.

**Supplementary to ISO, not DE-M marked.

***Cotton plugged



2 Graduated pipettes, AR-glass®, Class AS, amber graduations, type 3

BLAUBRAND® ETERNA, DE-M marking, AR-glass®. DIN EN ISO 835. Type 3 (Zero point at the top), total delivery. Calibrated to deliver (TD, Ex). Waiting time 5 seconds. Ring mark and inscription in ETERNA amber stain.

BRAND

All BLAUBRAND® graduated pipettes are supplied with a batch number and an accompanying batch certificate in the original packaging. On request, they are also available with an individual certificate, USP individual certificate or DAkkS (former DKD) calibration certificate.

Volume ml	Graduations ml	Tolerance ± ml	Suitable for cotton plugs	PK	Cat. No.
0.5	0.01	0.006	-	1	9.272 031
1	0.01	0.007	-	1	9.272 032
1	0.01	0.007	+	1	7.018 397
2	0.02	0.010	-	1	9.272 033
2	0.02	0.010	+	1	7.018 398
5	0.05	0.030	+	1	7.060 678
5	0.1	0.030	+	1	9.272 034
10	0.1	0.05	+	1	9.272 036
20	0.1	0.10	+	1	7.018 413
25	0.1	0.10	+	1	9.272 037



1 Graduated pipettes, Soda-lime glass, class AS, amber stain graduation, type 3

EX (TD) calibrated. Main point ring graduation. With dated batch identification. *Hirschmann*
 Declaration of conformity acc. to DIN 12600. With durable amber stain graduation.
 Graduated to the tip, zero on top. Type 3, acc. to DIN EN ISO 835.
 From 5ml with cotton plug end as standard.
 For those products, batch calibration reports, which are free of charge, can be generated and printed on www.hirschmannlab.com. Additional single calibration reports or DAkkS certificates (former DKD calibration reports) are available.

Volume ml	Grad. ml	Tolerance ± ml	Overall length ± 5 mm	PK	Cat. No.
0.5	0.01	0.006	360	1	6.059 364
1	0.01	0.007	360	1	6.301 732
1	0.1	0.007	360	1	6.303 032
2*	0.01	0.01	360	1	6.305 430
2	0.02	0.01	360	1	6.059 699
2	0.1	0.01	360	1	6.202 868
5	0.05	0.03	360	1	6.081 209
5	0.1	0.03	360	1	6.059 800
10	0.1	0.05	360	1	6.058 191
20	0.1	0.1	360	1	6.200 448
25	0.1	0.1	450	1	6.303 743
50*	0.2	0.2	450	1	6.234 515

* in addition to DIN.
 Available also with dated batch USP (U.S. Pharmacopeia).

2 Graduated pipettes, Soda-lime glass, class AS, amber stain graduation, type 2

EX (TD) calibrated. Main point ring graduation. With dated batch identification. *Hirschmann*
 Declaration of conformity acc. to DIN 12600. With durable amber stain graduation.
 Graduated to the tip, zero in tip. Type 2, acc. to DIN EN ISO 835.
 From 5ml with cotton plug end as standard.
 For those products, batch calibration reports, which are free of charge, can be generated and printed on www.hirschmannlab.com. Additional single calibration reports or DAkkS certificates (former DKD calibration reports) are available.

Volume ml	Grad. ml	Tolerance ± ml	Overall length ± 5 mm	PK	Cat. No.
0.5	0.01	0.006	360	1	9.272 350
1	0.01	0.007	360	1	9.272 351
1	0.1	0.007	360	1	9.272 352
2	0.02	0.01	360	1	9.272 353
2	0.1	0.01	360	1	9.272 354
5	0.05	0.03	360	1	9.272 355
5	0.1	0.03	360	1	6.202 713
10	0.1	0.05	360	1	6.202 714
20	0.1	0.1	360	1	9.272 358
25	0.1	0.1	450	1	9.272 359

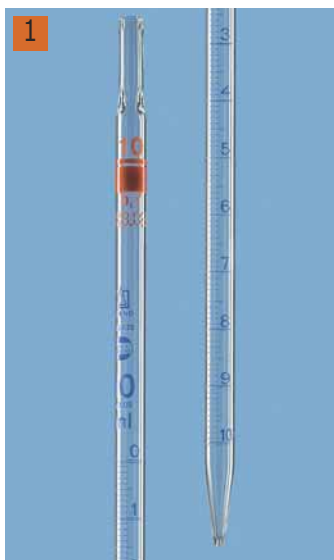
3 Graduated pipettes, Class AS, AR-glas®, blue graduation, type 2

BLAUBRAND®, DIN EN ISO 835, DE-M marking. Type 2 (nominal volume at top), *BRAND*
 total delivery. Calibrated to deliver (TD, EX). Waiting time 5 seconds.
 Marks and inscriptions in high contrast blue enamel.
 All BLAUBRAND® graduated pipettes are supplied with batch number and one batch certificate per manufacturer's outer pack. Also available with individual works, USP, or DKD calibration certificate on request.
 The batch certificate is also available to download from the supplier's website.

Volume ml	Grad. ml	Tolerance ± ml	Overall length ± 10 mm	PK	Cat. No.
0,5	0.01	0.006	360	1	9.272 016
1	0.01	0.007	360	1	9.272 017
1	0.1	0.007	360	1	9.272 018
1***	0.01	0.007	360	1	9.272 027
2**	0.01	0.010	360	1	9.272 029
2	0.02	0.010	360	1	9.272 019
2	0.1	0.010	360	1	9.272 020
2***	0.02	0.010	360	1	9.272 028
5***	0.05	0.030	360	1	9.272 021
5***	0.1	0.030	360	1	9.272 022
10***	0.1	0.05	360	1	9.272 023
20***	0.1	0.10	360	1	9.272 024
25***	0.1	0.10	450	1	9.272 025
50* ***	0.5	0.2	450	1	9.272 026

* Supplementary to ISO.
 **Supplementary to ISO, not DE-M marked
 ***Cotton plugged





1 Graduated pipettes, BLAUBRAND®, partial delivery, blue graduations, type 1

AR-glas®. DE-M marking. DIN EN ISO 835. Type 1 (Zero at top).

BRAND

Calibrated to deliver (TD, EX). Waiting time 5 seconds.

Ring mark and inscriptions in high contrast blue enamel.

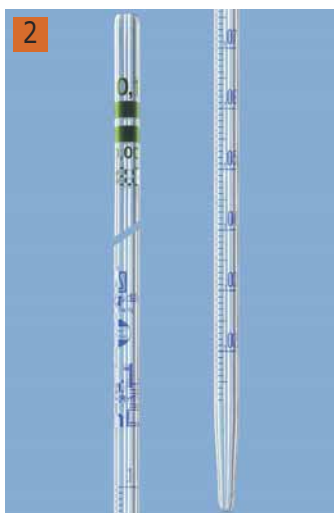
All BLAUBRAND® graduated pipettes are supplied with batch number and one batch certificate per manufacturer's outer pack (up to 10ml: 12 pipettes, 25 ml: 6 pipettes). Also available with individual works, USP, or DAkkS (former DKD) calibration certificate on request.

The batch certificate is also available to download from the supplier's website.

Volume ml	Graduations ml	Tolerance ± ml	Overall length ± 10 mm	PK	Cat. No.
0,5	0.01	0.006	360	1	9.272 121
1	0.01	0.007	360	1	9.272 122
2*	0.01	0.010	360	1	9.272 124
2	0.02	0.010	360	1	9.272 125
5**	0.05	0.030	360	1	9.272 127
10**	0.1	0.050	360	1	9.272 129
25**	0.1	0.100	450	1	9.272 131

* in completion to ISO, not with conformity certificate

**Cotton plugged



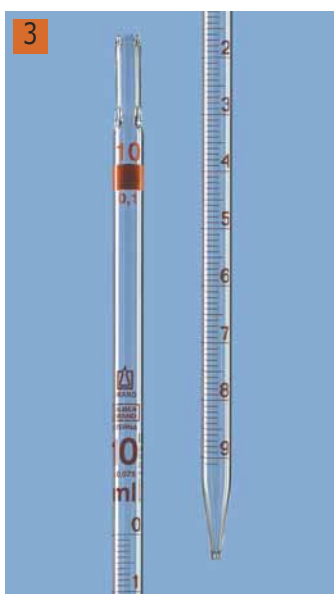
2 Graduated pipettes AR-GLAS®, class A, type graduated to contain, blue graduations

All BLAUBRAND® bulb pipettes are supplied with batch number and one batch certificate per packing unit. On request, they are also available with an individual certificate, USP individual certificate or DAkkS calibration certificate. Batch and individual certificates can also be downloaded at the supplier's website.

BRAND

- BLAUBRAND®
- DIN 12689
- DE-M marking
- Graduations and inscriptions in high contrast blue enamel
- Calibrated to contain (TC, IN)

Volume ml	Type	Graduations ml	Tolerance ± ml	Overall length ± 10 mm	PK	Cat. No.
0.1	Incl. individual certificate	0.001	0.001	360	1	6.281 967
0.1	Incl. DAkkS calibration certificate	0.001	0.001	360	1	6.281 968
0.1	Incl. batch certificate	0.001	0.001	360	1	9.272 102
0.2	Incl. batch certificate	0.002	0.002	360	1	9.272 104



3 Graduated pipettes, Class B, AR-glass®, amber graduations, type 3

SILBERBRAND Eterna. DIN EN ISO 835. Type 3 (zero at top).

BRAND

Graduations and inscriptions in Eterna permanent amber diffusion stain.

Adjusted to EX.

Volume ml	Grad. ml	Tolerance ± ml	Overall length ± 10 mm	PK	Cat. No.
1	0.01	0.010	360	1	9.272 070
1	0.1	0.010	360	1	9.272 071
2*	0.01	0.015	360	1	9.272 072
2	0.02	0.015	360	1	9.272 073
5**	0.05	0.05	360	1	9.272 075
5**	0.1	0.05	360	1	9.272 076
10**	0.1	0.08	360	1	9.272 077
20**	0.1	0.150	360	1	9.272 078
25**	0.1	0.150	450	1	9.272 079

* Supplementary to ISO.

**Cotton plugged

1 Graduated pipettes, Soda-lime glass, class B, amber stain graduation, type 3

EX (TD) calibrated. Tolerances better than class B requirements.
With durable amber stain graduation, short line, graduated to tip,
zero on top, type 3, acc. to DIN EN ISO 835.
From 5ml with cotton plug end as standard.

Hirschmann

Volume ml	Grad. ml	Tolerance ± ml	Overall length ± 5 mm	PK	Cat. No.
0.5	0.01	0.0075	360	1	9.272 366
1	0.01	0.01	360	1	9.272 367
1	0.1	0.01	360	1	9.272 368
2*	0.01	0.015	360	1	9.272 376
2	0.02	0.015	360	1	9.272 369
2	0.1	0.015	360	1	9.272 370
5	0.05	0.045	360	1	9.272 371
5	0.1	0.045	360	1	9.272 372
10	0.1	0.075	360	1	9.272 373
20	0.1	0.15	360	1	9.272 374
25	0.1	0.15	450	1	9.272 375
50*	0.2	0.3	450	1	9.272 377

* Supplementary to DIN.



2 Graduated pipettes FORTUNA®, with suction piston, AR-Glass, similar to class A

With permanent, blue or amber enamelled graduations.
Tolerances similar to class A.

Poulsen & Graf

Capacity ml	Grad. ml	Graduations	PK	Cat. No.
1	0,01	blue	1	6.205 081
2	0,02	blue	1	6.235 819
5	0,1	blue	1	6.072 024
5	0,05	blue	1	7.510 539
10	0,1	blue	1	6.071 992
20	0,1	blue	1	6.262 718
25	0,1	blue	1	6.801 187
1	0,01	amber	1	9.273 301
2	0,02	amber	1	9.273 302
5	0,1	amber	1	6.252 857
5	0,05	amber	1	9.273 305
10	0,1	amber	1	9.273 310
20	0,1	amber	1	9.273 320
25	0,1	amber	1	9.273 325



3 Graduated pipettes, PP, blue graduations



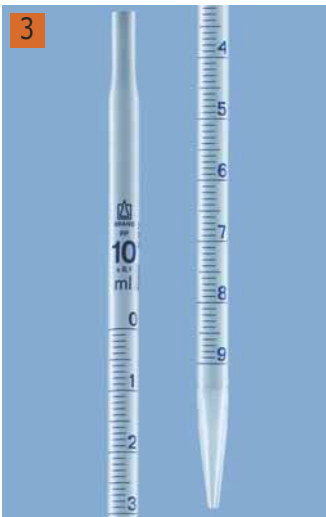
BRAND

Transparent. Particularly suitable for education and for applications where glass pipettes should not be used.
Exposure to temperatures up to 60°C will not cause permanent exceeding of tolerance limits.
Cleaning below 60°C is recommended to preserve graduations and inscriptions.

- Type 3 (Zero point at the top)
- Streak resistant
- Suction tube outer Ø max. 8 mm
- Calibrated to deliver (EX)

Capacity ml	Graduations ml	Tolerance ± ml	Overall length ± 10 mm	PK	Cat. No.
1	0.1	0.02	300	1	9.272 507
2	0.1	0.02	300	1	9.272 510
5	0.1	0.05	330	1	9.272 512
10	0.1	0.1	320	1	7.200 375
10*	0.1	0.1	330	1	9.272 513

* Suction tube outer Ø 10 mm





1 LLG-Pasteur pipettes, Soda-lime-glass

Single use. With uniform shape and length. With long drawn, 1.1mm diameter fine tip, 20mm suction tube and constriction for tight fitting of cotton wool plugs. External diameter: 7.1mm. Please order Pipette teats separately.

Length mm	Acc. to	PK	Cat. No.
150	ISO 7712	1000	9.411 015
230	ISO 7712	1000	9.411 020



2 Pasteur pipettes, Soda-lime-glass

ISO 7712. Long drawn-out capillary tip. Suction end with constriction for a cotton plug.

BRAND

Nominal capacity ml	Length mm	PK	Cat. No.
1.5	145	250	7.020 294
1.5	225	250	7.020 295
1.5	270	1000	4.665 820
1.5	310	1000	4.665 821

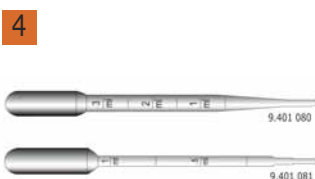


3 Pasteur pipettes, soda glass

Extra long tip, optimal for NMR applications. With constriction, without cotton wool.

NEW
Hilgenberg

Length mm	PK	Cat. No.
300	1000	4.672 077
350	1000	4.672 078



4 LLG-Pasteur Pipettes, PE

Manufactured from transparent PE. Sterile or non-sterile. Graduated.

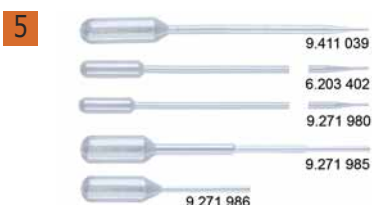
Type	Capacity ml	Length mm	PK	Cat. No.
non-sterile	1	150	500	4.672 670
non-sterile	3	150	500	4.672 671
sterile, single wrapped	1	150	1000	9.401 085
sterile, single wrapped	3	150	1000	9.401 084

5 6 Pipettes, Pasteur, PE

For transfer of liquids. Resistant against almost all acids. Soft and elastic bulb.

Type	Capacity ml	Length mm	Sterile	Graduations	PK	Cat. No.
Standard	1.0	138	-	+	500	6.204 264
Standard	1.0	150	-	+	500	9.411 031
Standard, single wrapped*	1.0	150	+	+	500	9.411 038
Capillary, single wrapped*	1.0	144	+	+	500	9.411 039
Standard	1.5	230	-	+	400	7.200 111
Standard	2.0	153	-	+	500	7.631 961
Standard	2.5	150	-	+	500	6.229 723
Macro	3.0	155	-	+	500	9.411 030
Macro, single wrapped	3.0	150	+	+	500	9.411 035
Micro*	3.0	152	-	-	500	9.411 032
Standard, with ring mark	10.0	170	-	-	200	9.411 033
Standard	10.0	300	-	-	100	6.203 402
Mini Pastette®	1.0	104	-	-	400	9.271 985
Ultra Pastette®	1.0	63	-	-	500	9.271 986
Jumbo Pastette®	7.3	300	-	-	100	9.271 980

* Total volume



1 Transfer pipettes Samco™, PE

Repeatable Results

- Inert, non-toxic Polyethylene
- Manufactured without mold release agents that could interfere with test results

Confidence

- Precision-cut tips deliver a uniform drop size
- Controlled processes produce a uniform bulb with uncompromised integrity
- Certified ISO 13485:2003

Design

- Grips easily with latex gloves 13 no slipping
- Fine tip accuracy
- Packaging materials greatly reduce airborne mold spores from entering testing areas

Thermo Scientific



Pipettes Samco™, PE, general purpose and B/B Pet™

For tissue cultures and applications, sample transfer of serum and plasma, blood culture, urine analysis.

Thermo Scientific

Description	Length	Capacity	Sterile	Stem diam.	PK	Cat. No.
	mm	ml		mm		
General Purpose, extra small bulb	72	0.6	-	3.3	500	4.654 058
General Purpose, 3"	87	1.8	-	4.8	500	4.654 047
General Purpose, 3"	87	1.8	+	4.8	500	4.654 048
General Purpose, 4" B/B Pet (Blood Bank)	103	3.1	-	2.5	400	4.654 071
General Purpose, 4" B/B Pet (Blood Bank)	103	3.1	-	2.5	400	4.654 072
General Purpose, small bulb	127	13.7	-	2.5	500	4.654 070
62 µL Large Aperture Pipette	137	9.5	-	6.1	250	4.654 083
General Purpose, 62 µL Large Aperture Pipette	137	9.5	+	6.1	250	4.654 084
General Purpose, 62 µL Large Aperture Pipette	137	9.5	-	6.1	250	4.654 086
General Purpose, 62 µL Large Aperture Pipette	137	9.5	+	6.1	250	4.654 087
General Purpose, Beral	145	5.5	-	2.8	500	4.654 107
General Purpose, large bulb	151	8.6	-	6.1	400	4.653 958
General Purpose, large bulb	151	8.6	+	6.1	400	4.653 959
General Purpose, large bulb	151	8.6	-	6.1	400	4.653 961
General Purpose, large bulb	151	8.6	+	6.1	400	4.653 962
6" B/B Pet (Blood Bank)	154	4.9	-	6.6	500	4.654 076
General Purpose, 6" B/B Pet (Blood Bank)	154	4.9	+	6.6	500	4.654 078
General Purpose, standard bulb	156	7.7	-	7.9	500	4.653 952
General Purpose, standard bulb	156	7.7	+	7.9	500	4.653 953
General Purpose, standard bulb	156	7.7	-	7.9	500	4.653 955
General Purpose, standard bulb	156	7.7	+	7.9	500	4.653 956

Further models can be found in our online shop.

2 Aspiration pipettes, PS



Transfer pipets without graduation, ideal for liquid transfer.

- Available in sterile or non-sterile version
- Colourless and transparent
- Pyrogen-free
- Bulk package in easy-to-open plastic bags

Capacity ml	Sterile	PK	Cat. No.
1	+	1000	4.672 564
2	+	1000	4.672 565
5	+	400	4.672 566
10	+	400	4.672 567
25	+	150	4.672 568
50	+	100	4.672 569
2	-	1000	4.672 570
5	-	400	4.672 571
10	-	400	4.672 572
25	-	150	4.672 573
50	-	100	4.672 574



1 LLG-Serological pipettes, PS, sterile

Serological pipettes from LLG are ideally suited for sterile serological and cell culture applications. Easy to read graduation scales facilitate volume measurement and dosing. All LLG serological pipettes are plugged, sterile, pyrogen-free and have an increased volume capacity through extra graduations.

- Also available as short-pipettes (5 ml, 10 ml and 25 ml) or wide-mouth pipette (10 ml)
- 1 ml, 5 ml, 10 ml, 25 ml and 50 ml pipettes contain a bi-directional secondary graduation scale for precise dosing
- Colour coded ringmark for easy volume identification
- Single packed in easy-to-open plastic/paper packaging

Volume ml	Grad. ml	Colour code	Negative graduations	PK	Cat. No.
1	1/100	yellow	0,3	500	9.380 440
2	1/50	green	0,6	500	9.380 441
5	1/10	blue	3	200	7.930 401
10	1/10	orange	3	200	6.268 240
10	1/10	orange (wide mouth)	3	200	9.380 442
25	2/10	red	8	150	7.930 403
50	5/10	purple	10	100	9.380 443
5	1/10	blue (short form)	3	200	6.265 881
10	2/10	orange (short form)	10	150	6.265 882
25	5/10	red (short form)	9	100	6.265 883



2 Serological pipettes, PS, bulk package, sterile

- Single packed in bulk package
- Increased volume capacity through extra graduations
- Colour coded for easy volume identification
- Plugged, filters/plugs made of PET
- Pyrogen-free
- DNase-/RNase-free
- Free of human DNA
- Sterile

Thermo Scientific

Plastic/Plastic-Peel packaging

Capacity ml	Grad. ml	additional scale ml	Tolerance \pm ml	Colour code	PK	Cat. No.
1	1/100	0.3	0.02	yellow	1000	9.380 464
2	1/100	0.3	0.04	black	500	9.380 465
5	1/10	2	0.10	blue	200	9.380 466
10	1/10	3	0.20	orange	200	9.380 467
25	2/10	10	0.50	green	200	9.380 468
50	2/10	10	0.75	purple	100	9.380 469



1 | 2 LLG-Electrical pipette *Plus*



Ergonomic and precise - the cordless and lightweight LLG-Electrical pipette *Plus* enables fast and exact pipetting with glass and plastic pipettes.

- UV resistant housing
- Fatigue-proof pipetting due to ergonomically shaped handle
- Suitable for left and right handers
- Exchangeable filters protect the device mechanism from contamination
- LED display with speed display: High, Low or Gravity mode (for free liquid flow without drive operation)
- 5 different coloured autoclavable nose pieces and labelling area enables customisation of the pipette
- Extremely quiet and powerful drive
- Low-Battery LED indicator

Scope of supply: Charger (5 V micro USB), Li-Ion battery, 5 coloured nose pieces, 3 membrane filters, adapter for 1 ml pipettes, benchtop rack, magnetic wall mounting

Specifications

Membrane filters:	PTFE/Ø 25 mm /0.45 µm
Capacity:	1 to 100 ml, glass and plastic pipettes
Pipette attachment:	Polypropylene, autoclavable
Dimensions:	15 x 152 x 41 mm
Weight:	approx. 200 g
Power supply:	rechargeable Li-Ion battery, 8 h continuous operation
Warranty:	1 year

Description	PK	Cat. No.
LLG-Electrical pipette <i>Plus</i>	1	9.281 041
Membrane filter, 0.45µm, PTFE, non-sterile	5	9.281 005
Replacement accu	1	6.267 647



3 Pipette Fillers Profiller™ 447

Electronic pipette filler which allows longer and fatigue-free pipetting due to comfortable hand adjustment. Shape is ideal for working with glass or plastic pipettes. A powerful, quiet motor and a switch to set both aspiration and dispensing speeds enable maximal working efficiency even with large pipetting volumes.

Socorex

- Powerful pump (fills 25 mL in 3 seconds)
- Comfortable finger triggers
- Low battery light
- NiMH battery rechargeable during use
- Interchangeable protection membrane filter

Scope of delivery: Pipette filler Profiller™ 447, power supply, four plug adaptors (EU, US/JP, GB, AUS/NZ), two spare hydrophobic filters (0.45 µm and 0.2 µm), bench and wall stands and instruction manual.

Type	PK	Cat. No.
Profiler™ 447	1	4.665 542





1 Pipette Filler, pipetus®

The pipetus® is ergonomically sophisticated in every detail despite most modern technology, powerful and light-weight. Fits graduated, volumetric and Pasteur pipettes from 0.1 ml to 200 ml. Without reloading it can be operated up to one week. The colour display shows the selected defaults (speed) and the current battery capacity

Hirschmann

- Automatic inductive charge in the park station guarantees constant readiness
- Controlled pipetting by a simple push of a button
- EX/Blow out switch for precise operating
- Speed key for 5 operating speeds
- No memory effect by inserted microcontroller
- Clear colour display with permanent display
- Optimal meniscus adjustment by sensitive valve technique
- Standard relief valve against penetration of liquid
- Ergonomic design for fatigue-free serial pipetting
- Power supply 100-240 V, with EU, UK, US plugs

Supplied with:

pipetus® complete with mains operated charging unit and inductive charging stand, color display with battery level indicator, 2 additional round PTFE filters, additional safety valve and wall mount.

Type	PK	Cat. No.
pipetus®	1	9.283 958



Pipette controllers, pipetus®, accessories

Hirschmann

Type	PK	Cat. No.
Pipette holder, complete	1	9.283 970 2
Round filter set with one-sided connection	5	9.283 965
Spare silicone adapter	1	9.283 961
Spare safety valve	1	9.283 962
Charging set 230 V including inductive charging station, EU, UK, US plug	1	9.283 966
Mounting bracket	1	9.283 967
Retainer Ring, chrome	1	9.283 968 3
Pipette holder housing	1	9.283 969
Table Stand	1	9.287 859



4 Pipette controller accu-jet® pro

BRAND

- Additional battery compartment cover (included) allows instrument to be inverted on the bench to avoid contamination of the pipette adapter
- Corrosion protection by direct exhaust of liquid vapours
- Safety valve/membrane filter for protection against fluid penetration
- One-hand operation
- Stepless regulation of the maximum pipetting speed
- Powerful motor for fast filling times (50ml in 10 seconds)
- Liquid discharge optionally in gravity-delivery or motorised blow-out
- Engine speed variable
- A flashing LED light will alert you approx. two hours in advance
- 8 hours of continuous pipetting with a 10 ml pipette without recharging
- For glass and plastic pipettes from 0.1 to 200 ml

Scope of delivery: accu-jet® pro, incl. wall support, 2 membrane filters 0.2µm sterile, NiMH battery pack, 2 battery compartment covers, instruction manual and power supply unit (100 - 240 V, 50/60 Hz).

Specifications:

Operating and charging temperature: 10 ... 35 °C
 Pipetting speed: 50 ml in less than 10 seconds
 Weight: 190 g
 Battery pack: NiMH battery 2.4 V/700 mAh

Type	Colour	PK	Cat. No.
With AC adapter for Europe (continental)	dark blue	1	9.281 090
With AC adapter for Europe (continental)	magenta	1	9.281 086
With AC adapter for Europe (continental)	green	1	9.281 087
With AC adapter for Europe (continental)	royal blue	1	9.281 088
With AC adapter for UK / Ireland	dark blue	1	4.000 031
With AC adapter for UK / Ireland	magenta	1	4.000 032
With AC adapter for UK / Ireland	green	1	4.000 033
With AC adapter for UK / Ireland	royal blue	1	4.000 034
Without AC adapter	dark blue	1	4.000 030

Accessories for accu-jet® controller

BRAND

Description	PK	Cat. No.
NiMh-Akku battery pack only	1	9.281 096
Silicone adapter, with non-return valve (PTFE)	1	9.281 094
Membrane filter, 0.2 µm, in blister pack, sterile*	1	9.281 092
Membrane filter, 0.2 µm, in PE bag, non-sterile	10	9.281 091 1
Membrane filter, 3 µm in blister pack, non-sterile	1	9.273 868
Membrane filter, 3 µm, in PE bag, non-sterile	10	9.281 095
Recharger for accu-jet® pro, Europe	1	6.224 985
Recharger for accu-jet® pro, UK / Ireland	1	4.000 047
Adapter support for accu-jet® pro, PP, dark blue	1	7.082 717 2
Adapter support for accu-jet® pro, PP, magenta	1	4.000 051
Adapter support for accu-jet® pro, PP, green	1	4.000 052
Adapter support for accu-jet® pro, PP, royal blue	1	4.000 053
Wall support for accu-jet® pro	1	7.018 383
Snap tapes for accu-jet® pro	1	7.018 384

* Sterilized with ethylene oxide (ETO), SAL of 10⁻⁶, with red colour code



9.281 091



7.082 717

3 Macropipette controllers

The handwheel allows precise suction of the liquid into the pipette with one hand. When the wheel stops, the piston remains in the desired position. The liquid can be blown out by pressing the piston back or allowed to flow out by setting the lateral switch to "Ex".

ISOLAB

For	PK	Cat. No.
Pipette volume up to 2ml	1	4.008 322
Pipette volume up to 10ml	1	4.008 323
Pipette volume up to 25ml	1	4.008 324



4 Pipette filler Pi-pump

Pipette filler Pi-pump made of acid-proof plastic, suitable for all pipettes. By turning the knurled wheel, a piston is moved and liquids can be sucked up or released from the pipette. This technique allows for safe and precise pipetting by hand. Releasing the liquids precisely, i.e. line by line, is easily possible. Sizes 2, 10 and 25 are additionally equipped with a fast release valve which allows for free release of liquids instantly.

Glasfirn Gießen

For pipettes up to ml	Colour	PK	Cat. No.
0,2	yellow	1	9.273 872
2,0	blue	1	9.273 873
10,0	green	1	9.273 874
25,0	red	1	9.273 875



5 Maxi pipette filler, 1 to 100ml

Large capacity bulb which works perfectly with all pipette sizes from 1ml up to 100ml. First squeeze the silicone bulb and the thumb lever controls both the aspirate and dispense modes. Incorporates central button to blow out the residual liquid into the pipettes

ISOLAB

Type	PK	Cat. No.
Maxi pipette filler	1	6.238 525



Pipettes/Pipette controllers-Pipette balls



1 Pipette controllers macro 0.1 to 200ml

BRAND



One single macro pipette controller covers the entire range of bulb and graduated pipettes from 0.1 to 200 ml. The conical silicone adapter offers a secure fit for the different diameters. The unique valve system allows for easy compression of the newly designed bellows. The spring loaded lever enables an even more sensitive filling and delivery of liquids. The meniscus is easily adjustable. The unit is fully autoclavable at 121 °C (2 bar) according to DIN EN 285. A hydrophobic membrane filter protects the system from liquid penetration.

Supplied with: pipette controller incl. 3 µm spare membrane filter.

Type	PK	Cat. No.
Pipette controller macro, grey	1	9.273 850
Pipette controller macro, magenta	1	9.273 853
Pipette controller macro, green	1	9.273 851
Pipette controller macro, blue	1	9.273 852
Spare hydrophobic membrane filter	1	9.273 868
Valve assembly	1	9.273 860
Spare adapter, silicone	1	9.273 861



2 Pipette teats

Natural rubber(NR)/Latex or Silicone (VMQ)

Deutsch & Neumann

Capacity ml	Colour	Material	PK	Cat. No.
2	red	NR/Latex	100	4.661 160
2	transparent/white	VMQ	10	9.072 682



3 Pipette teats, silicone

NEW

Hilgenberg

The pipette teats are available in different colours and are suitable for pasteur pipettes with Ø 7 mm.

- With roll-away lock
- Slightly flattened shape with structured, nonskid grip area
- Extra large volume of over 2 ml
- Oval body for better handling

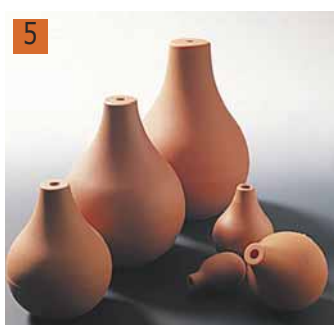
Colour	PK	Cat. No.
Transparent turquoise	100	4.672 074
Transparent anthracite	100	4.672 075
Transparent red	100	4.672 076



4 Pipette bulbs

Rubber. For quick and easy pipetting. Colour coding to prevent confusion.

Colour	Capacity ml	PK	Cat. No.
Grey	2	1	9.115 502



5 Rubber blowballs

Non-rigid PVC. Red-brown, smooth. With 6mm i.d. outlet hole.

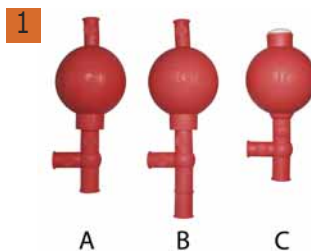
Deutsch & Neumann

Type	Capacity ml	Diam. mm	PK	Cat. No.
B oval	5	30	1	9.115 404
0	10	30	1	9.115 411
2	28	42	1	9.115 430
3	42	48	1	9.115 450
5	90	62	1	9.115 480
7	145	72	1	9.115 485
9	225	84	1	9.115 487

1 LLG-Safety pipette bulb, rubber, red

Chemically resistant rubber. With valves for suction, emptying and air release, controlled by thumb and finger pressure.

Type	Figure	PK	Cat. No.
LLG-Safety pipette bulb, normal	A	1	6.270 265
LLG-Safety pipette bulb, universal	B	1	6.270 266
LLG-Safety pipette bulb, "Flip"	C	1	6.270 267



2 Safety pipette bulb Howorka-Ball®

- no rigid connection with tube
- no valves or side vent on tubes
- suitable for all standard tube diameters, including pipettes, burettes, filter tubes etc.
- no unstable air pockets
- long operational life due to durable components
- Easily cleaned and steam sterilized if contaminated with liquids

Capacity ml	PK	Cat. No.
20	1	9.273 826
50	1	9.273 827



3 Pipette stand, horizontal, PP

Pipette stand for 12 pipettes, horizontal is made from moulded polypropylene which is autoclavable. On each side, 6 pipettes (longer than 22 cm) can be stored horizontally. Easy to clean. ISOLAB

Dimensions mm	PK	Cat. No.
210 x 155 x 230	1	9.273 896



4 Pipette stand, vertical, PP

The pipette carousel can be rotated 360° and can hold up to 94 pipettes. The pipettes are placed vertically in the stand. The base plate has a raised edge which catches dripping liquids. ISOLAB

Type	PK	Cat. No.
Pipette stand, vertical	1	9.273 895



5 Pipettes stand, PP, chrome-plated steel

Frame for pipettes with two rotating perforated plates and drip pan. For drying and space-saving storage of pipettes, thermometers and test tubes. The holders are suitable for up to 40 pipettes up to a max. diameter of 18 mm. **NEW**
Bürkle

- Rotatable
- Very sturdy pedestal
- Magnetic concept, no clamping screws necessary
- Adjustable height up to 450 mm

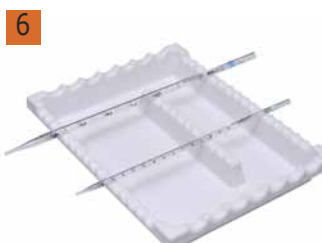
Type	PK	Cat. No.
Pipettes stand	1	6.079 517



6 Pipette stand, PS

Manufactured from polystyrene for easy organisation of all kinds of pipettes. Cranated design enables safe holding of large size pipettes in longitudinal direction and short size pipettes in transverse direction. Can also be used in drawers as well as on bench tops. ISOLAB

Width mm	Length mm	Height mm	PK	Cat. No.
216	283	40	1	6.286 606





1 Pipette tray, PVC

PVC. For pipettes of all sizes. Can accommodate 7 pipettes with overall stem diameter not exceeding 20mm longitudinally or 16 pipettes with stem diameter not exceeding 10mm laterally.

Kartell

Width mm	Length mm	Height mm	PK	Cat. No.
216	283	40	1	9.200 392



2 Pipette tray, PVC

PVC. Tidy tray. With 4 long compartments for approx. 30 graduated pipettes (1ml to 20ml).

Kartell

Width mm	Length mm	Height mm	PK	Cat. No.
300	426	30	1	9.200 394



3 Pipette storage container

With lid. Suitable for dust-proof storage of pipettes up to 400 mm long.

Kartell

Type	Dimensions (dia. x H) mm	PK	Cat. No.
With lid (PP container, HDPE lid)	82 x 426	1	9.273 900



9.273 985

Pipette rinser system

For easy and gentle cleaning of pipettes according to the suction lifter principle.

Kartell

A complete rinsing system consists of pipette washer, pipette soaking jar and pipette basket, please order separately. Heat resistant up to 105 °C, good chemical resistance.

Pipette basket: For holding pipettes up to 600 mm or burettes acc. to Mohr. The basket is equipped with a handle and a height-adjustable ring. The bottom of elastic PE reduces the risk of damage to the pipettes.

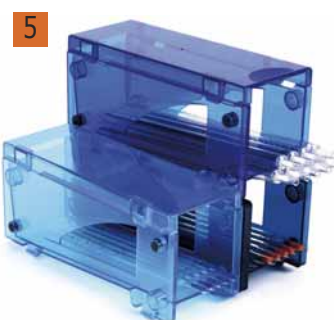
Pipette soaking jar: For pre-cleaning of the pipettes

Pipette rinser: For rinsing the pre-cleaned pipettes. The emptying siphon permits constant water exchange. The water inlet should be approx. 2 l/min.

Type	Diam. mm	Height Insert mm	Height mm	PK	Cat. No.
Pipette baskets	145	280	495*	1	9.273 980
Pipette baskets	145	280	645*	1	9.273 985 4
Pipette baskets	145	280	870*	1	9.273 990
Pipette soaking jar	125	-	250	1	9.273 928
Pipette soaking jar	165	-	503	1	9.273 920
Pipette soaking jar	165	-	650	1	9.273 925
Pipette rinser	170	-	734	1	9.409 238
Pipette rinser	173	-	980	1	9.409 239

*with handle

➔ Further pipette cleaning devices please see chapter 11



5 Rack for serological pipettes

Ideal for your serological pipettes. Use as individual units, or click together horizontally or vertically. Magnets on both sides of units connect safely to metal surface such as file cabinets, fume hoods, refrigerators, and freezers. Angled shelves store your 0.1ml to 50ml pipettes within arm's reach for use. Protective lid encloses the unit to prevent dust build up. Colour: 3 different shades of blue. Dimensions (L x W x H): 301mm x 100mm x 127.5mm each.

Heathrow Scientific

Type	PK	Cat. No.
Cargo Manual Pipette Rack	3	9.273 930

1 Variable pipette boxes

Comprising two, sliding aluminium sections which can be gently pressed together in a telescopic fashion to fit the length of the pipettes to be sterilized. This means that only one container size for 280 to 420 mm long standard pipettes and one for 145 to 235 mm long short or pasteur pipettes are required. 2 mm thick silicone rubber pad prevents damage to pipettes when loading and transporting.

ISOLAB

Type	Int. diam. mm	Variable length mm	PK	Cat. No.
Pipette box	60	145-235	1	9.010 801
Pipette box	60	280-420	1	9.010 800
Silicone pad	58		1	9.010 770

1



2 Pipette sterilizing boxes

Cylindrical. 18/10 stainless steel. With silicone pad in base and lid. Rotating the lid exposes or hides the lid perforations. Sterilizable up to 205 °C.

Bochem

Diam. mm	Height mm	Effective length mm	PK	Cat. No.
50	390	382	1	9.010 790
50	425	417	1	9.010 791
65	380	372	1	9.010 792
65	450	442	1	9.010 793
80	380	372	1	9.010 794
80	500	492	1	9.010 795

2



3 Pipette sterilizing boxes, square

Square section. Stackable. 18/10 stainless steel. With silicone pad in base and lid. Box W x D: 70 x 70 mm. Sterilizable up to 205 °C.

Bochem

Diam. mm	Length mm	Effective length mm	PK	Cat. No.
70 x 70	210	202	1	9.010 781
70 x 70	290	282	1	9.010 782
70 x 70	340	332	1	9.010 783
70 x 70	435	427	1	9.010 784
70 x 70	490	482	1	9.010 785

3



4 Pipette container, Aluminium

Pipette boxes with optimized easy handling in everyday work. The cylindrical pipette boxes are the best option for autoclaving various glass items with a length from 150 to 480mm like mixing rods, pasteur, volumetric and graduated pipettes.

Ratiolab

- autoclaving: the new construction guarantees the entrance of steam into the container and optimizes the process of autoclaving
- opening and closing: soft sliding performance of top section onto the base section makes working easy
- base and top section are filled with a silicon layer at the bottom as a shock absorber to protect the glass items from splintering

Description	Length mm	PK	Cat. No.
Pipet box aluminium	160 ... 200	1	6.266 679
Pipet box aluminium	235 ... 305	1	6.266 680
Pipet box aluminium	315 ... 385	1	6.266 681
Pipet box aluminium	315 ... 485	1	6.266 682

4



5 Stainless steel rack for 4 pipette containers

For space-saving and safe storage of up to 4 pipette containers.

NEW

Ratiolab

5



Type	Dimensions (W x D x H) mm	PK	Cat. No.
Stainless steel rack	250 x 265 x 120	1	6.312 262



9.411 333

Disposable micropipettes ring marked, intraMARK

BLAUBRAND®. DIN ISO 7550.

BRAND

DE-M marking from 5µl upwards, in accordance with German Weights and Measure Regulations. Calibrated to contain (IN). Colour code according to ISO for clear identification.

Length 125 mm

Accuracy ±0.25 %

Precision ≤ 0.5 %

(Capacity 5 µl: Accuracy ±0.3 %, precision ≤ 0.6 %)

Marks at	Colour	PK	Cat. No.
µl			
1/2/3/4/5*	White	250	9.411 307
10	Orange	250	9.411 309
20	Black	250	9.411 318
25*	White - white	250	9.411 322
40*	Red - red	250	9.411 327
20 + 40*	Red - red	250	9.411 328
50	Green	250	9.411 333 1
100	Blue	250	9.411 344
50 + 100	Blue	250	9.411 345
200	Red	200	9.411 357

* DE-M marking for 5 µl division only.



2 Pipetting aid, intraEnd

For BLAUBRAND® intraEnd micropipettes.

BRAND

Consists of the PET plastic tube, silicone adapter, and TPE suction bellows with venting hole.

Type	PK	Cat. No.
Pipetting aid, intraEnd	10	9.411 440

3 Capillary pipettes, ringcaps®

Disposable capillary pipettes with ring marks. ringcaps® are exclusively made out of DURAN® glass.

Hirschmann

The accurately designed ring mark guarantees precise determination of volume, the international color code on every single micropipette prevents the risk of confusion.

Unit = 1 box of 250 pieces.

Version 100 + 200 = 1 box of 100 pieces.

Advantages:

- No risk of cross contamination owing to single use
- DURAN® glass
- Handy length of 125mm
- Declaration of conformity acc. to DIN 12600

Type	Capacity µl	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	PK	Cat. No.
5 marks	1 + 2 + 3 + 4 + 5	0.30	0.6	250	9.600 105
1 mark	10	0.25	0.5	250	9.600 110
1 mark	20	0.25	0.5	250	9.600 120
1 mark	25	0.25	0.5	250	9.600 125
1 mark	40	0.25	0.5	250	9.600 140
1 mark	50	0.25	0.5	250	9.600 150
1 mark	100	0.25	0.5	250	9.600 199
1 mark	200	0.25	0.5	100	9.600 122
2 marks	5 + 10	0.25	0.5	250	9.600 210
2 marks	20 + 40	0.25	0.5	250	9.600 240
2 marks	50 + 100	0.25	0.5	250	9.600 299
2 marks	100 + 200	0.25	0.5	100	9.600 222

3



1 Disposable Capillary pipettes, DURAN®, minicaps® end-to-end

Non-heparinized. Declaration of conformity acc. to DIN 12600, ISO 7550.

Hirschmann

Capacity µl	Length mm	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	PK	Cat. No.
0.5	30 - 32	0.5	1.0	100	9.411 265
1	30 - 32	0.5	1.0	100	9.411 266
2	30 - 32	0.5	1.0	100	9.411 267
3	30 - 32	0.5	1.0	100	9.411 268
4	30 - 32	0.5	1.0	100	9.411 270
5	30 - 32	0.5	1.0	100	9.411 271
10	30 - 32	0.5	1.0	100	9.411 273
20	30 ± 0.5	0.5	1.0	100	9.411 274
25	30 - 32	0.5	1.0	100	9.411 275
30	30 - 32	0.5	1.0	100	9.411 276
40	30 ± 0.5	0.5	1.0	100	9.411 277
50	30 ± 0.5	0.5	1.0	100	9.411 279
100	100	0.5	1.0	100	9.411 280

1



2 Haematocrit capillary tubes

Disposable capillaries for blood centrifugation tests, length 75mm, with heavy wall thickness and color-coded acc. to DIN 12 772.

Hirschmann

Type	Capacity µl	Outer diam. mm	Int. diam. mm	PK	Cat. No.
Sodium-heparinized	60	1.3 ... 1.4	0.9 ... 1.0	1000	6.078 500
Sodium-heparinized	75	1.42 ... 1.68	1.07 ... 1.23	1000	7.200 409
Sodium-heparinized	100	1.5 ... 1.6	1.1 ... 1.2	1000	7.602 312
Plain	75	1.42 ... 1.68	1.07 ... 1.23	1000	6.200 639
Plain	60	1.3 ... 1.4	0.9 ... 1.0	1000	6.200 957

2



3 Micro-haematocrit capillary tubes

Comply with BS 4316-68 and DIN ISO 12 772 specifications.

For use in microhaematocrit centrifuges. Without calibration marks.

BRAND

Heparinised: For capillary blood sampling. The entire inner surface is coated with sodium-heparinate. Code: red.

Non-heparinised: To determine heparinised venous blood. Code: blue.

Length:	75 mm ±0.5 mm
Wall thickness:	approx. 0.2 mm
Internal diameter:	1.1 to 1.2 mm
External diameter:	1.5 to 1.6 mm

Type	PK	Cat. No.
Heparinised	100	9.411 215
Non-heparinised	100	9.411 220

3



4 Micro capillaries

These disposable micro capillaries fill automatically from end to end. Their accuracy is better than 1%.

A capillary tube holder is supplied with each pack. Also contains a small bulb with aperture which can be inserted into capillary and used as an effective support for filling and emptying tubes.

Capacity µl	PK	Cat. No.
0.5	100	9.020 192
1.0	100	9.020 193
2.0	100	9.020 194
5.0	100	9.020 195
10.0	100	9.020 196

4





1 Haematocrit sealing compound

Non-drying vinyl plastic compound on a plastic plate.
For rapid and safe sealing of micro-haematocrit capillaries.
24 capillaries can be placed upright in the numbered storage places on each side of the plate.
CE marked.

BRAND

Type	PK	Cat. No.
Haematocrit sealing compound	10	9.411 240



2 Micropipette controller



For disposable pipettes with micro ring mark and many other small glass pipettes up to 1ml.
Autoclavable (121 °C). The micropipette controller reduces risk of infection.
Contaminated disposable micropipettes can be removed using the integral ejection button.

BRAND

Type	PK	Cat. No.
Micropipette controller	1	9.288 200
Spare suction system	3	9.288 201



3 Pipette controllers, micro-classic



Comfortable and reliable. Thanks to its ergonomic design and easy handling, the micro-classic pipette controller provides the comfort needed for difficult work under the microscope. Suitable for disposable micropipettes with ring marks and other microlitre volume pipettes with a capacity up to 1ml. Suitable for left, or right-handed operation. The adapter and suction tube are autoclavable at 121 °C.

BRAND

Description	PK	Cat. No.
Micro-classic, complete, with 2 spare tubes	1	9.281 080
Spare adapter with suction tube	3	9.281 085



1 2 3 4 5 6 LLG single channel microliter pipettes



Available with fixed or adjustable volume.

Ergonomic shape for a very comfortable handling

The rounded shape and the unique soft grip of the LLG pipette ensures a safe and comfortable handling. A minimal effort is required for pipetting so that the risk of repetitive strain injuries (RSI) is reduced.

Maximum Precision and Accuracy

Thermal insulation of the internal components, using the innovative soft grip, improves the accuracy.

Universal Blow-out System

The two-step plunger operation allows reverse pipetting. This also facilitates last drop dispensing by soft plunger movements. High accuracy and precision are guaranteed.

Colour-coded push-button for quick operation

The colour code enables a quick choice of the right pipette depending of the volume to be pipetted (see corresponding column in the table below).

Easy Maintenance and Adjustment

The volume setting is easy and precise, using the push-button, even when wearing gloves. Maintenance and adjustment take only a few minutes with just one tool. (Included in delivery)

Contamination-free Pipetting

The pipette is fully autoclavable, ideal for applications where sterility is important.

Satisfaction Guaranteed

Each pipette is individually tested and calibrated twice, conforming to EN ISO 8655 and DIN 12600 Standards. A certificate is included.

Made in Germany, CE certified.

LLG single channel microliter pipettes, fix

Capacity µl	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	Colour code	PK	Cat. No.
5	1.0	0.5	grey	1	9.277 515
10	1.0	0.5	grey	1	9.277 516
20	4.5	1.0	grey	1	9.277 517
25	2.5	0.6	yellow	1	9.277 518
50	2.5	0.6	yellow	1	9.277 519
250	2.9	0.6	blue	1	9.277 522
2500	2.4	0.6	violet	1	9.277 526



LLG single channel microliter pipettes, variable

Capacity µl	Increments µl	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	Colour code	PK	Cat. No.
0.1 - 2.5	0.05	2.50	1.60	grey	1	9.280 000
0.5 - 10	0.1	1.00	0.80	grey	1	9.280 001
2 - 20	0.5	0.90	0.40	grey	1	9.280 002
10 - 100*	1.0	0.80	0.15	yellow	1	9.280 003
20 - 200	1.0	0.60	0.15	yellow	1	9.280 004
100 - 1000*	5.0	0.60	0.20	blue	1	9.280 005
500 - 5000*	50.0	0.50	0.15	purple	1	9.280 006
1000 - 10000**	100.0	0.60	0.20	turquoise	1	9.280 007

*Filters for pipettes available on request.

1 LLG-Digital single channel microliter pipettes, Packages, variable

Package 1 Micro contains:

- a) 3 Microlitre pipettes with the volumes
 - LLG-microlitre pipette 0.5 to 10µl
 - LLG-microlitre pipette 10 to 100µl
 - LLG-microlitre pipette 100 to 1000µl
- b) for each pipette one bag of tips
 - crystal (0.1 to 10µl) 1000 tips
 - yellow (10 to 100µl), 1000 tips
 - blue (100 to 1000µl), 1000 tips

Package 2 Macro contains:

- a) 3 Microliter pipettes with the volumes
 - LLG-microlitre pipette 100 to 1000µl
 - LLG-microlitre pipette 500 to 5000µl
 - LLG-microlitre pipette 1000 to 10000µl
- b) for each pipette one bag of tips
 - blue (100 to 1000µl), 1000 tips
 - clear (100 to 5000µl), 250 tips
 - clear (1000 to 10000µl), 100 tips

Package 1 Micro and 2 Macro are also available as packages with 4-place or 6-place pipette stand, made of PMMA.

Type	PK	Cat. No.
Package 1 Micro	1	9.280 008
Package 2 Macro	1	9.280 009
Package 1 Micro + 4-place-pipette stand	1	6.237 000
Package 1 Micro + 6-place-pipette stand	1	6.237 001
Package 2 Macro + 4-place-pipette stand	1	6.237 002
Package 2 Macro + 6-place-pipette stand	1	6.237 003

1



2



2 LLG-Pipette stands for single channel microliter pipettes, PMMA

White, stable plastic (PMMA), industrial grade. Pipettes are held in an ergonomic position for easy withdrawal and replacement. Adjustable heights. Suitable for all kind of pipettes.

Description	PK	Cat. No.
for 4 pipettes	1	9.280 014
for 6 pipettes	1	9.280 011

3



6.290 241

4



6.290 247

Pipette stand Universal for single and multi-channel microliter pipettes

- Holds up to 8 single-channel, 4 multi-channel, or a combination of both pipettes. *Heathrow Scientific*
- For all pipette brands
- Inserts on the upper holders can be added or removed to accommodate the fit of different pipette widths
- Weighted base allows for easy one-handed removal or replacement of pipettes
- Pipettes are held in a vertical position to help prevent contamination
- Assorted color options allow for color coding pipette location
- Dimensions (W x H): 229 x 408 mm

Colour	Lower Holder	Upper Holder	PK	Cat. No.
Assorted*/clear	8 x clear	8 x clear / 8 x assorted*	1	6.290 241 3
Purple/clear	8 x purple	8 x purple / 8 x clear	1	6.290 246
Blue/green	8 x blue	8 x blue / 8 x green	1	6.290 247 4

*purple, yellow, red, orange, green, grey, clear, blue

1 2 3 Single channel microliter pipettes LLG-proMLP



The LLG-proMLP single channel microliter pipettes combine high accuracy and reliability with ergonomic and extremely low force pipetting relieving stress from your hand and thumb. This high precision instrument has been built to maintain accuracy for many years making it the ideal choice for all scientific work requiring exact and reproducible pipetting. The LLG-proMLP pipettes are equipped with an adjustable eject button allowing right and left handed users to set the button*according to their preferences. The built in volume locking mechanism and competitive pricing complete these high quality precision pipettes. Available volume ranges from 0.2 µl to 10 ml.

- High quality **Made in France**
- High accuracy, reliability and reproducibility
- Extremely light weight while the robustness still remains
- Perfect ergonomics for highest comfort
- Colour-coded push-button for quick operation
- Extremely low pipetting forces
- **Built-in volume locking** for error-free results
- **Tip ejector button***, adjustable for right- and left-handed users
- Completely autoclavable at 121°C
- Including individual calibration certificate (according to EN ISO 8655)

*not available for 5 ml and 10 ml pipettes

Scope of supply: microliter pipette, calibration tool

Capacity µl	Increments µl	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	Colour code	PK	Cat. No.
0.2-2	0.002	1.65	0.75	dark orange	1	6.270 420
0.5-10	0.02	1.10	0.44	red	1	6.270 421
2-20	0.02	1.00	0.33	light yellow	1	6.270 422
10-100	0.2	0.80	0.17	light orange	1	6.270 423
20-200	0.2	0.80	0.17	dark yellow	1	6.270 424
100-1000	2	0.80	0.17	dark blue	1	6.270 425
500-5000	2	0.66	0.18	purple	1	6.270 426
1000-10000	20	0.60	0.18	light blue	1	6.270 427

1



2



3



Accessories for Single channel microliter pipettes LLG-proMLP

Description	PK	Cat. No.
Filters for Single channel microliter pipettes LLG-proMLP 5K und 10K	10	6.288 219
Piston grease for Single channel microliter pipettes LLG-proMLP 5K und 10K	5	6.290 477

7 Pipette stands Flip & Grip™ for single and multi-channel microliter pipettes

Unique pipette holder that gives you the option of using on the bench top, or hanging under shelf holder to help maximize your working space available.

Heathrow Scientific

- Will hold up to 12 single channel pipette, or a combo of 3 single and 3 multichannel
- Holds most common brands. Rubber grips prevent scratching pipette
- Holder rotates for easy pipette selection and storage
- Weighted base. Fixing screw provided for under shelf option
- Dimensions (W x H): 193 x 332mm (bench top style); 193 x 187mm (under shelf style)

Colour	PK	Cat. No.
Blue	1	9.194 002 4
Lime	1	9.194 003 5
Magenta	1	9.194 004 6

4



9.194 002

5



9.194 003

6



9.194 004

7



Microliter pipettes, Transferpette® S



BRAND

The Transferpette® S is available with fixed or adjustable volume. Low operating forces and a short stroke ensure relaxed pipetting, even during long pipetting series.

- One-hand operation for right- and left-handed users
- Volume-change protection
- Easy Calibration technology: Calibration without tools
- Universal tip cone
- Completely autoclavable at 121 °C
- Color code on volume adjustment wheel, shaft and volume-change protection
- DE-M marking

1



1

Single channel microliter pipettes, Transferpette® S, fixed



BRAND

Volume range from 10 µl to 2000 µl.

Scope of supply: Transferpette® S type fixed volume, with performance certificate, shelf/rack mount, labeling foil, silicone grease

Capacity µl	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	Tip µl	PK	Cat. No.
10	1,0	0,5	0,5 ... 20	1	9.280 150
20	0,8	0,4	2 ... 200	1	9.280 151
25	0,8	0,4	2 ... 200	1	9.280 152
50	0,8	0,4	2 ... 200	1	9.280 153
100	0,6	0,2	2 ... 200	1	9.280 154
200	0,6	0,2	2 ... 200	1	9.280 155
500	0,6	0,2	50 ... 1000	1	9.280 156
1000	0,6	0,2	50 ... 1000	1	9.280 157
2000	0,8	0,3	500 ... 5000	1	9.280 158

2



2

Single channel microliter pipettes, Transferpette® S, variable



BRAND

Volume range from 0.1 µl to 10000 µl.

Scope of supply: Transferpette® S type adjustable volume, with performance certificate, shelf/rack mount, labeling foil, silicone grease

Capacity µl	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	Tip µl	PK	Cat. No.
0.1 ... 1	2	1.2	0.1 ... 20	1	9.280 140
0.1 ... 2.5	1.4	0.7	0.5 ... 20	1	9.280 141
0.5 ... 10	1.0	0.5	0.5 ... 20	1	9.280 142
2 ... 20	0.8	0.4	2 ... 200	1	9.280 143
5 ... 50	0.8	0.3	2 ... 200	1	9.280 144
10 ... 100	0.6	0.2	2 ... 200	1	9.280 145
20 ... 200	0.6	0.2	2 ... 200	1	9.280 146
100 ... 1000	0.6	0.2	50 ... 1000	1	9.280 147
500 ... 5000	0.6	0.2	500 ... 5000	1	9.280 148
1000 ... 10000	0.6	0.2	1000 ... 10000	1	9.280 149

1 Single channel pipettes Transferpette® S, variable, Starter-kits



1

Starter kit micro: 3 x pipettes (0.1 - 2.5 µl, 0.5 - 10 µl, 10 - 100 µl), 3 x TipBox pipette tips (2 x 0.5 - 20 µl, 2 - 200 µl), 3 shelf mounts
Starter kit standard: 3 x pipettes (0.5 - 10 µl, 10 - 100 µl, 100 - 1000 µl), 3 x TipBox pipette tips (0.5 - 20 µl, 2 - 200 µl, 50 - 1000 µl), 3 shelf mounts
Starter kit midi: 3 x pipettes (2 - 20 µl, 20 - 200 µl, 100 - 1000 µl), 3 x TipBox pipette tips (2 x 2 - 200 µl, 50 - 1000 µl), 3 shelf mounts
Starter kit macro: 3 x pipettes (100 - 1000 µl, 500 - 5000 µl, 1000 - 10000 µl), 3 x TipBox pipette tips (50 - 1000 µl, 0.5 - 5 ml, 1 - 10 ml), 3 shelf mounts
Pipette package 1: 5 x pipettes (0.1 - 2.5 µl, 0.5 - 10 µl, 2 - 20 µl, 20 - 200 µl, 100 - 1000 µl), 3 x TipBox pipette tips (0.5 - 20 µl, 2 - 200 µl, 50 - 1000 µl), table stand for 6 pipettes
Pipette package 2: 5 x pipettes (0.5 - 10 µl, 10 - 100 µl, 20 - 200 µl, 100 - 1000 µl, 500 - 5000 µl), 4x TipBox pipette tips (0.5 - 20 µl, 2 - 200 µl, 50 - 1000 µl, 0.5 - 5 ml), table stand for 6 pipettes

BRAND



Type	PK	Cat. No.
Starter kit micro	1	9.280 160
Starter kit standard	1	9.280 163
Starter kit midi	1	9.280 161
Starter kit macro	1	9.280 162
Pipette package 1	1	9.280 164
Pipette package 2	1	9.280 165

2 Accessories for Single and Multichannel Microliter Pipettes Transferpette® S

BRAND

Description	PK	Cat. No.
Bench stand for 1 multi channel pipette	1	7.510 391
Bench stand for 6 single and multi channel pipettes	1	6.312 381
Filter for all Transferpette® S single channel pipettes 0.5-5 ml	25	6.230 119
Filter for Transferpette® S 1-10 ml pipettes	25	6.230 120
Wall mount for Transferpette® S, S-8, S-12	1	4.674 938

2



3 Single channel microliter pipettes, Transferpette® electronic, variable

BRAND

The optimal design, the arrangement of the operating keys and the adjustable finger rest allow the motorized Transferpette® electronic to be tailored to the shape of your hand.

- Motor-driven, to reduce the risk of RSI and imprecision/inaccuracy caused by operator variability
- Five operating modes: Pipetting mode, Reverse pipetting, Mixing, Dispensing, Gel-electrophoresis modes
- Easy Calibration function for rapid adjustment of the unit without tools
- Extremely fast pipetting speed
- NiMH rechargeable battery pack and battery regeneration-mode
- Optionally, the Transferpette® can also be charged via the 3-fold charging stand

Items supplied: Transferpette® electronic, DE-M marking, with performance certificate, battery, power supply, silicone grease.

3



Capacity	Increments	Tip	Accuracy max. vol.	Precision max. vol.	Connector	PK	Cat. No.
µl	µl	µl	(± R%)	(≤ CV%)			
0.5 - 10	0.01	0.1 - 20, 0.5 - 20, 1 - 50, 0.1 - 1*, 0.5 - 10*, 1 - 20*	1.0	0.4	EU	1	9.280 113
0.5 - 10	**	0.1 - 20, 0.5 - 20, 1 - 50, 0.1 - 1*, 0.5 - 10*, 1 - 20*	1.0	0.4	EU	1	9.280 115
2 - 20	0.02	0.1 - 20, 0.5 - 20, 1 - 50, 0.5 - 10*, 1 - 20*	1.0	0.4	EU	1	9.280 100
2 - 20	**	0.1 - 20, 0.5 - 20, 1 - 50, 0.5 - 10*, 1 - 20*	1.0	0.4	-	1	9.280 103
10 - 200	0.2	2 - 200, 5 - 300, 2 - 20*, 5 - 100*, 5 - 200*	0.8	0.2	EU	1	9.280 101
10 - 200	**	2 - 200, 5 - 300, 2 - 20*, 5 - 100*, 5 - 200*	0.8	0.2	-	1	9.280 104
10 - 200	***	2 - 200, 5 - 300, 2 - 20*, 5 - 100*, 5 - 200*	0.8	0.2	-	1	6.241 958
50 - 1000	1.0	50 - 1000, 50 - 1000*	0.6	0.2	EU	1	9.280 102
50 - 1000	**	50 - 1000, 50 - 1000*	0.6	0.2	-	1	9.280 105
50 - 1000	***	50 - 1000, 50 - 1000*	0.6	0.2	-	1	6.241 959
250 - 5000	5.0	500 - 5000	0.6	0.2	EU	1	9.280 114
250 - 5000**	5.0	500 - 5000	0.6	0.2	-	1	9.280 116
250 - 5000***	5.0	500 - 5000	0.6	0.2	-	1	6.241 960

* Filter tips

**without a. c. adapter, please order with 3-device charging stand 9.280 106

***incl. DAKS calibration certificates

You can find suitable pipette stands online.

1



1

Multichannel microliter pipettes Transferpette® S-8/S-12, variable

NEW


BRAND

Transferpette® S -8/-12 pipettes are available in 5 different models and cover the volume range from 0.5 µl to 300 µl.

Scope of supply: Transferpette® S -8/-12, supplied with performance certificate, 2 x TipBox filled with pipette tips from BRAND, shelf mount, reagent reservoir, mounting tool, labeling foil, silicone grease and 1 set of sealing rings

Type	Capacity µl	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	Tip max. vol. µl	PK	Cat. No.
S-8	0,5 ... 10	1,6	1,0	0,5 ... 20	1	9.280 170
S-8	5 ... 50	0,8	0,4	2 ... 200	1	9.280 171
S-8	10 ... 100	0,8	0,3	2 ... 200	1	9.280 172
S-8	20 ... 200	0,8	0,3	2 ... 200	1	9.280 173
S-8	30 ... 300	0,6	0,3	5 ... 300	1	9.280 174
S-12	0,5 ... 10	1,6	1,0	0,5 ... 20	1	9.280 175
S-12	5 ... 50	0,8	0,4	2 ... 200	1	9.280 176
S-12	10 ... 100	0,8	0,3	2 ... 200	1	9.280 177
S-12	20 ... 200	0,8	0,3	2 ... 200	1	9.280 178
S-12	30 ... 300	0,6	0,3	5 ... 300	1	9.280 179

2



2

Multichannel microliter pipettes Transferpette® -8/-12 electronic, variable

BRAND



The effortless ease of operation and its unique ergonomic shape make working with the Transferpette® -8/-12 piston-operated pipette so comfortable. The use of high-quality materials makes it exceptionally light in weight, while special FKM V-rings and the stepped shape of the ejector significantly reduces the ejection force needed. Your hand remains relaxed and loose, even during a prolonged pipetting operation.

- Individual shafts and seals can easily be replaced in the laboratory, for long instrument life
- Easy Calibration Technique: Calibration and adjustments are done in seconds without tools
- Autoclavable lower housing (121°C), freely rotatable over 360°
- Separate tip ejector: minimal tip ejection force needed
- Colored tip ejector caps indicate appropriate tips to use
- Corrosion resistant design
- CE-marked according to IVD-Directive 98/79 EC.

Items supplied: Transferpette® electronic 8 or 12 channel, DE-M marking, with performance certificate, battery, power supply, TipBox refill, 1 stand, 1 reagent reservoir, silicone grease, 1 extra set of sealing rings made of FKM and assembling aid

Channels	Capacity µl	Increments µl	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	Tip max. vol. µl	Connector	PK	Cat. No.
8	0,5 - 10	0,01	1,2	0,8	0,1 - 20, 0,5 - 20, 0,1 - 1*, 0,5 - 10*, 1 - 50, 1 - 20*	EU	1	9.280 117
8	1 - 20	0,02	1,0	0,5	0,1 - 20, 0,5 - 20, 0,5 - 10*, 1 - 50, 1 - 20*	EU	1	9.280 107
8	5 - 100	0,1	0,8	0,25	2 - 200, 5 - 300, 2 - 20*, 5 - 100*, 5 - 200*	EU	1	9.280 108
8	10 - 200	0,2	0,8	0,25	2 - 200, 5 - 300, 2 - 20*, 5 - 100*, 5 - 200*	EU	1	9.280 118
8	15 - 300	0,5	0,6	0,25	2 - 200, 5 - 300, 5 - 100*, 5 - 200*	EU	1	9.280 109
12	0,5 - 10	0,01	1,2	0,8	0,1 - 20, 0,5 - 20, 0,1 - 1*, 0,5 - 10*, 1 - 50, 1 - 20*	EU	1	9.280 119
12	1 - 20	0,02	1,0	0,5	0,1 - 20, 0,5 - 20, 0,5 - 10*, 1 - 50, 1 - 20*	EU	1	9.280 110
12	5 - 100	0,1	0,8	0,25	2 - 200, 5 - 300, 2 - 20*, 5 - 100*, 5 - 200*	EU	1	9.280 111
12	10 - 200	0,2	0,8	0,25	2 - 200, 5 - 300, 2 - 20*, 5 - 100*, 5 - 200*	EU	1	9.280 128
12	15 - 300	0,5	0,6	0,25	2 - 200, 5 - 300, 5 - 100*, 5 - 200*	EU	1	9.280 112

* Filter tips

1 Single channel microliter pipettes Acura® manual 825/835



Available with fixed or adjustable volume. The latest Acura® manual pipette line was built with the same attention to detail that made the brand famous over several instrument generations. Introducing a smooth, modern design with easy volume reading. It also features a number of innovations enabling safe and easy, high performance pipetting.

- Effortless activation
- Smart and reliable volume adjustment
- Precision digital display visible at all times
- Justip™ adjustable tip ejector fitting most tips
- Swift-set user calibration system
- Shock, UV-light and autoclaving resistance
- Three-year warranty



Single channel microliter pipettes Acura® manual 835, fix

Socorex

Type	Capacity µl	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	PK	Cat. No.
835	2000	0.8	0.5	1	6.235 043
835	2500	0.8	0.5	1	6.258 006
835	5000	0.7	0.3	1	6.205 429
835	10000	0.5	0.2	1	6.205 430

Single channel microliter pipettes Acura® manual 825/835, variable

Socorex

Type	Capacity µl	Increments µl	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	PK	Cat. No.
825	0,1 - 2	0.002	2.0	1.5	1	9.411 590
825	0,5 - 10	0.01	1.0	0.5	1	9.411 591
825	1 - 10	0.01	1.0	0.7	1	9.411 592
825	2 - 20	0.02	1.0	0.5	1	9.411 593
825	5 - 50	0.1	1.0	0.4	1	9.411 594
825	10 - 100	0.1	0.8	0.2	1	9.411 595
825	20 - 200	0.2	0.6	0.2	1	9.411 596
825	100 - 1000	1	0.5	0.2	1	9.411 597
835	200 - 2000	0.002	0.5	0.2	1	6.230 186
835	500 - 5000	0.01	0.6	0.3	1	9.411 598
835	1000 - 10000	0.01	0.5	0.2	1	9.411 599

2 Single channel microliter pipettes Acura® manual 825/835 Triopack™, variable

Set with 3 pipettes. Nine different packs up to 10ml, each containing three adjustable micropipettes to cover all individual requirements in any research or routine application. Available at attractive saver prices.

Socorex



Type	Capacity µl	PK	Cat. No.
Acura 825 Triopack.C	0.1 - 2, 0.5 - 10, 5 - 50	3	9.411 620
Acura 825 Triopack.J	0.1 - 2, 2 - 20, 20 - 200	3	9.411 621
Acura 825 Triopack.M	1 - 10Y*, 5 - 50, 20 - 200	3	9.411 622
Acura 825 Triopack.O	0.5 - 10, 10 - 100, 100 - 1000	3	9.411 628
Acura 825 Triopack.P	1 - 10Y*, 10 - 100, 100 - 1000	3	9.411 623
Acura 825 Triopack.S	2 - 20, 20 - 200, 100 - 1000	3	9.411 624
Acura 825 Triopack.T	5 - 50, 20 - 200, 100 - 1000	3	9.411 625
Acura 825 Triopack.V	10 - 100, 100 - 1000, 500 - 5000	3	9.411 626
Acura 825 Triopack.Y	100 - 1000, 500 - 5000, 1000 - 10000	3	9.411 627

*10µl pipette for use with 200 µl tips

1

1 Single channel microliter pipettes, Calibra® digital 822/832

Socorex



- Instant, volume adjustment
- Unsurpassed performance and calibration stability
- Shock, heat, chemicals and UV light resistance
- Reliable user calibration
- Macro models accommodate interchangeable nozzle filters
- Autoclavable at 121°C/250°F
- Three-year warranty

Type	Capacity	Increments	Tip	Accuracy max. vol.	Precision max. vol.	PK	Cat. No.
	µl	µl	µl	(± R%)	(≤ CV%)		
822	20 - 200	1	200	0.6	0.2	1	9.411 478
822	100 - 1000	5	1000	0.5	0.2	1	9.411 479
832	200 - 2000	10	2000	0.5	0.2	1	9.411 480
832	1000 - 10000	100	10000	0.5	0.15	1	9.411 481

2

2 Accessories for Single Channel Microliter Pipettes Calibra® digital 832

Socorex

Description	PK	Cat. No.
Protection Filter for 2ml model	250	9.411 482
Glass Pasteur Pipette for 2ml model	250	9.411 731
Protection Filter for 10ml model	100	9.411 484

3

3 Microliter pipettes TwiXS Pack Acura® manual XS 826, variable

Socorex

Six different pipette packs up to 1.000 µl. For all individual requirements in any research application. Available at attractive saver prices.

Ready-to-use set includes:

- Two Acura® manual XS pipettes
- Shelf pipette holder for two pipettes
- Qualitix® samples
- QC certificate
- Operating instructions

Type	Capacity	Tip	PK	Cat. No.
	µl	µl		
Pack E	0,1 - 2 + 2 - 20	Ultra 10 - 200	2	9.411 650
Pack G	0,5 - 10 + 10 - 100	Ultra 10 - 200	2	9.411 651
Pack H	2 - 20 + 20 - 200	200 - 200	2	9.411 654
Pack K	5 - 50 + 20 - 200	200 - 200	2	9.411 652
Pack N	10 - 100 + 100 - 1000	200 - 1000	2	9.411 653
Pack Q	20 - 200 + 100 - 1000	200 - 1000	2	9.411 655

4

4 Dilution microliter pipette Acura® manual 810, fix

Socorex

This air displacement micropipette allows subsequent pipetting of 1 and 0.1mL of same liquid. The two pre-calibrated fixed volumes eliminate any setting. A universal metal nozzle accommodates straw tips (length 190mm, diameter 4 mm), most adequate to aspirate from deep, narrow vials or Stomacher bags. Ideal alternative to conventional graduated glass pipettes when performing serial 1:10 dilutions in bacteriology.

Volume	Increments	Accuracy max. vol.	Precision max. vol.	PK	Cat. No.
ml	µl	(± R%)	(≤ CV%)		
1 / 0.1	-	0.5	0.4	1	6.203 235

5

5 Straw tips, PP, for Dilution pipette Acura® manual 810

Socorex

Colourless Polypropylene straw tips with a diameter of 4mm are specially designed for easy reach deep into narrow vials and Stomacher bags. Their large diameter allows pick up of particle containing liquids. Qualitix® straw tips can be used directly in microbiological tests. They are supplied sterilized, in sealed bags.

Capacity	Length	PK	Cat. No.
ml	mm		
1.1	190	1000	6.210 059

1 Single channel microliter pipettes Acura® *electro* XS 926/936, variable

Microprocessor-controlled instrument line featuring intuitive software avoiding any complicated programming steps. No particular skills are required to get quick access to six working modes and many volumes to select from. Unsurpassed metrological performance and stability.

Socorex

Pipetting modes:

- Forward: aspiration and pipetting of set volume
- Reverse: aspiration in excess, followed by dosing of set volume
- Stepper: tip filling and step-by-step distribution
- Dilution: aspiration of 2 or 3 different volumes for restitution in one shot
- Tactile: "start-stop-start" slow liquid measurement, titration and gel loading
- Mixing: "Up and down" liquid flow

The Acura® *electro* features:

- Optimal ergonomics, light weight
- Easy, intuitive, self-teaching programme
- Large display, reversible right/left reading
- Swift-interchange battery pack
- Fast charge, long working autonomy
- Adjustable tip ejector fitting most tips
- Pipetting cycle counter
- Interchangeable volumetric modules
- Two years warranty

Supplied with: Electronic pipette with 4.8V battery, operating instructions and QC certificate, Qualitix® pipette tips samples, silicone grease



Type	Capacity	Increments	Tip	Accuracy max. vol.	Precision max. vol.	PK	Cat. No.
	µl	µl	µl	(± R%)	(≤ CV%)		
Acura® <i>electro</i> XS 926	0.1 - 2	0.01	Ultra 10	0.9	0.8	1	9.411 660
Acura® <i>electro</i> XS 926	0.5 - 10	0.05	Ultra 10	0.6	0.35	1	9.411 661
Acura® <i>electro</i> XS 926	0.5 - 10	0.05	200	0.6	0.4	1	9.411 662
Acura® <i>electro</i> XS 926	1 - 20	0.1	200	0.5	0.3	1	9.411 663
Acura® <i>electro</i> XS 926	2.5 - 50	0.25	200	0.5	0.25	1	9.411 664
Acura® <i>electro</i> XS 926	5 - 100	0.5	200	0.5	0.2	1	9.411 665
Acura® <i>electro</i> XS 926	10 - 200	1.0	200	0.4	0.15	1	9.411 666
Acura® <i>electro</i> XS 926	50 - 1000	5.0	1000	0.4	0.1	1	9.411 667
Acura® <i>electro</i> 936	100 - 2000	10	2000	0.5	0.15	1	9.411 680
Acura® <i>electro</i> 936	250 - 5000	50	5000	0.5	0.15	1	9.411 681
Acura® <i>electro</i> 936	500 - 10000	50	10000	0.5	0.15	1	9.411 682

We can supply this
manufacturer's
 whole
product range !



1 Single channel microliter pipettes Initial package Acura® *electro* XS 926/electro 936, variable

Initial package is recommended when purchasing an Acura® *electro* for the first time. Each initial package contains one electronic pipette, QC certificate and operating instructions, charging stand, power supply, additional battery pack, Qualitix® pipette tips samples. Thereafter, additional pipettes can be purchased alone and charged on existing stand.

Socorex

Initial package supplied with:
 electronic pipette with 4.8V battery, additional battery pack, charging stand, power supply, operating instructions and QC certificate, Qualitix® pipette tips samples, silicone grease

Type	Capacity	Increments	Tip	Accuracy max. vol.	Precision max. vol.	PK	Cat. No.
	µl	µl	µl	(± R%)	(≤ CV%)		
Initial package Acura® <i>electro</i> XS 926	0.1 - 2	0.01	Ultra 10	0.9	0.8	1	9.411 668
Initial package Acura® <i>electro</i> XS 926	0.5 - 10	0.05	Ultra 10	0.6	0.35	1	9.411 669
Initial package Acura® <i>electro</i> XS 926	0.5 - 10	0.05	200	0.6	0.4	1	9.411 670
Initial package Acura® <i>electro</i> XS 926	1 - 20	0.1	200	0.5	0.3	1	9.411 671
Initial package Acura® <i>electro</i> XS 926	2.5 - 50	0.25	200	0.5	0.25	1	9.411 672
Initial package Acura® <i>electro</i> XS 926	5 - 100	0.5	200	0.5	0.2	1	9.411 673
Initial package Acura® <i>electro</i> XS 926	10 - 200	1.0	200	0.4	0.15	1	9.411 674
Initial package Acura® <i>electro</i> XS 926	50 - 1000	5.0	1000	0.4	0.1	1	9.411 675
Initial package Acura® <i>electro</i> 936	100 - 2000	10	2000	0.5	0.15	1	9.411 683
Initial package Acura® <i>electro</i> 936	250 - 5000	50	5000	0.5	0.15	1	9.411 684
Initial package Acura® <i>electro</i> 936	500 - 10000	50	10000	0.5	0.15	1	9.411 685

2 Multichannel microlitre pipettes Acura® *manual* 855, variable

Socorex



- 8- and 12-channel models up to 350µl
- Light weight and perfect hand fitting
- Easy to handle
- Precision digital display visible at all times
- 360° rotation of volumetric module
- Adjustable tip ejector fitting most tips
- Integrated user calibration system
- Autoclavable at 121 °C/250 °F
- Three-year warranty

Capacity	Increments	Tip	Accuracy max. vol.	Precision max. vol.	Channels	PK	Cat. No.
µl	µl	µl	(± R%)	(≤ CV%)			
0.5 - 10	0.01	10	1.5	1.0	8	1	9.411 630
5 - 50	0.1	200	0.8	0.4	8	1	9.411 631
10 - 100	0.1	200	0.8	0.4	8	1	6.286 775
20 - 200	0.2	200	0.7	0.3	8	1	9.411 632
40 - 350	0.4	350	0.8	0.3	8	1	9.411 633
0.5 - 10	0.01	10	1.5	1.0	12	1	9.411 634
5 - 50	0.1	200	0.8	0.4	12	1	9.411 635
20 - 200	0.2	200	0.7	0.3	12	1	9.411 636
40 - 350	0.4	350	0.8	0.3	12	1	9.411 637

1



2



1 Multichannel microliter pipettes Acura® electro 956, variable

Microprocessor-controlled instrument line featuring intuitive software avoiding any complicated programming steps. No particular skills are required to get quick access to six working modes and many volumes to select from. Unsurpassed metrological performance and stability.

Socorex

Pipetting modes:

- Forward: aspiration and pipetting of set volume
- Reverse: aspiration in excess, followed by dosing of set volume
- Stepper: tip filling and step-by-step distribution
- Dilution: aspiration of 2 or 3 different volumes for restitution in one shot
- Tactile: "start-stop-start" slow liquid measurement, titration and gel loading
- Mixing: "Up and down" liquid flow

The Acura® electro features:

- Optimal ergonomics, light weight
- Easy, intuitive, self-teaching programme
- Large display, reversible right/left reading
- Swift-interchange battery pack
- Fast charge, long working autonomy
- Adjustable tip ejector fitting most tips
- Pipetting cycle counter
- Interchangeable volumetric modules
- Two years warranty

Supplied with: Electronic pipette with 4.8V battery, operating instructions and QC certificate, Qualitix® pipette tips samples, silicone grease



Capacity	Increments	Tip	Accuracy max. vol.	Precision max. vol.	Channels	PK	Cat. No.
µl	µl	µl	(± R%)	(≤ CV%)			
0.5 - 10	0.05	Ultra 10	1.0	0.7	8	1	9.411 690
2.5 - 50	0.25	200	0.8	0.4	8	1	9.411 691
10 - 200	1.0	200	0.6	0.25	8	1	9.411 692
20 - 350	5.0	350	0.6	0.25	8	1	9.411 693
0.5 - 10	0.05	Ultra 10	1.0	0.7	12	1	9.411 694
2.5 - 50	0.25	200	0.8	0.4	12	1	9.411 695
10 - 200	1.0	200	0.6	0.25	12	1	9.411 696
20 - 350	5.0	350	0.6	0.25	12	1	9.411 697

2 Shelf pipette holder for Single and Multi channel microliter pipettes, Type 332

Socorex



For two Acura® and Calibra® micro and/or multichannel pipettes.
Material: polycarbonate (PC). Maintenance: clean with mild detergent.
Not autoclavable.

Type	PK	Cat. No.
Shelf pipette holder 332	1	6.235 370



3 Pipette stands Twister™ universal 336 for single channel microliter pipettes

Unique design 6-position pipette work station with great characteristics.
Model fits six pipettes of most brands providing for an ideal storage solution in any laboratory.
Rotation enables quick instrument selection. Easy disassembling for simple maintenance.
Available in seven translucent colours. Discs are exchangeable.

Socorex

Colour	PK	Cat. No.
Sapphire blue	1	6.253 916
Emerald green	1	6.253 917
Topaz orange	1	6.253 918
Quartz grey	1	6.253 919
Ruby red	1	6.253 920
Diamond white	1	6.253 921
Citrine yellow	1	6.253 922



1



1 Pipette stand for Single and Multichannel microliter pipettes, for Calibra® and Acura® models

Innovative design fits all Calibra® and Acura® models. Easy reach of each instrument. Heavy base plate and anti-slip pads guarantee high stability. Polyamide construction.

Socorex

Description	PK	Cat. No.
Pipette stand 340 for 3 pipettes	1	9.411 505

2



2 Pipette stands for Single channel microliter pipettes, Type 337

- Holds up to 7 single-channel pipettes of most brands
- Available in 5 attractive colours
- Space-saving table-mounted models
- Polyacrylamide (PA) material is easy to clean

Socorex

Colour	PK	Cat. No.
Light grey	1	9.411 491
Pink	1	9.411 504
Ice blue	1	9.411 492
Mint green	1	9.411 493
Vanilla yellow	1	9.411 494

3

3 Microliter Pipette Tacta

Sartorius Lab Instruments



Tacta is a premium mechanical pipette available in volume range from 0.1 to 10 000 µl in single channel models, and from 0.5 to 300 µl in multichannel models.



- Low pipetting cycle forces reduce the risk of WRULD (Work Related Upper Limb Disorder)
- Ergonomic design for comfortable pipetting
- Optiload feature in both single and multichannel models for easy and light tip loading with perfect tip sealing
- Optiject soft tip ejection feature detaches the tip in a smooth, controlled manner
- Optilock's dual-function volume locking prevents accidental volume changes
- Easy-to-read, four-digit volume display helps to set exact volumes
- Color-coding of volumes to ease the selection of corresponding pipette tips
- Safe-Cone Filters available for models above 10 µl with convenient built-in filter ejection mechanism
- Fully autoclavable without disassembling
- Simple to clean and maintain with only three parts to disassemble
- Easy calibration adjustment with adjustment scale ensures accurate results, also in cases where factory calibration does not apply, for example when pipetting viscous liquids
- Materials have high chemical and UV-resistance to ensure a long life span for the pipette

4

4 Single channel pipette Tacta

Sartorius Lab Instruments



Capacity µl	Increments µl	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	PK	Cat. No.
0.1 - 3	0.002	1.30	0.80	1	6.284 794
0.5 - 10	0.01	1.00	0.60	1	6.282 658
2 - 20	0.02	0.90	0.40	1	7.645 491
10 - 100	0.10	0.80	0.15	1	6.282 657
20 - 200	0.20	0.60	0.15	1	7.645 492
100 - 1000	1.00	0.70	0.20	1	6.282 656
500 - 5000	10.0	0.50	0.20	1	6.285 006
1000 - 10000	20.0	0.60	0.20	1	7.645 568

Single Channel Pipette Tacta, Multipacks

Three different multipacks:

- Tacta® pipette 3-pack 20, incl. linear stand and Tacta® pipettes 2 - 20 µl, 20 - 200 µl, 100 - 1000 µl and Sartorius Optifit Tip tray Box
- Tacta® pipette 4-pack 20, incl. linear stand and Tacta® pipettes 0.5 - 10 µl, 2 - 20 µl, 20 - 200 µl, 100 - 1000 µl and Sartorius Optifit Tip tray Box
- Tacta® pipette 5-pack 20, incl. linear stand and Tacta® pipettes 2 - 20 µl, 10 - 100 µl, 20 - 200 µl, 100 - 1000 µl, 500 - 5000 µl and Sartorius Optifit Tip tray Box

Sartorius Lab Instruments



1

6.310 494

Description	PK	Cat. No.
Tacta® Pipette 3-pack 20	1	6.310 494 1
Tacta® Pipette 4-pack 20	1	6.273 255
Tacta® Pipette 5-pack 20	1	7.982 708

2 Multichannel microliter pipette Tacta

Sartorius Lab Instruments

Channels	Capacity µl	Increments µl	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	PK	Cat. No.
8	0.5-10	0.01	1.50	1.00	1	6.284 614
8	5-100	0.10	0.70	0.25	1	4.658 723
8	30-300	0.20	0.60	0.25	1	4.658 724
12	0.5-10	0.01	1.50	1.00	1	4.658 725
12	5-100	0.10	0.70	0.25	1	4.658 726
12	30-300	0.20	0.60	0.25	1	4.658 727

Suitable accessories can be found in our online shop.

2



3 Single channel pipette mLine®, mechanical, variabel

The mechanical pipettes of Sartorius are known for their ergonomic, user-friendly design and reliability. mLINE® pipettes represent an ergonomic choice for quality-conscious users who perform long lasting and repetitive manual pipetting. These pipettes are used in (bio)pharmaceutical laboratories, research institutes, universities, health care and industrial laboratories for various liquid handling tasks

Sartorius Lab Instruments

Capacity µl	Increments µl	Optifit Tips µl	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	PK	Cat. No.
0.1 - 3	0.002	10	1.30	0.80	1	6.234 095
0.5 - 10	0.01	10	1.00	0.60	1	6.234 096
2 - 20	0.02	200	0.90	0.40	1	6.237 371
10 - 100	0.10	200, 350	0.80	0.15	1	6.228 993
20 - 200	0.20	200, 350	0.60	0.15	1	6.228 995
100 - 1000	1.00	1000	0.60	0.20	1	6.206 379
500 - 5000	10.0	5000	0.50	0.20	1	6.237 372
1000 - 10000	20.0	10000	0.60	0.20	1	6.239 043

3



Accessories for Picus and eLINE® electronic micropipettors

Sartorius Lab Instruments

Type	PK	Cat. No.
Charging stand for 1 pipette	1	6.254 913
Charging carousel for 4 pipettes	1	6.238 584 4
replacement battery eLINE®	1	6.240 793

4



6.238 584

1



1 Electronic Microliter pipettes Picus®/Picus® NxT

Sartorius Lab Instruments

Picus®/Picus® NxT are compact and lightweight pipettes. Fully electronic operation assures high accuracy and precision of results. Picus® NxT provides distinct advantages for highly regulated laboratories. Fully electronic liquid handling in the volume range of 0.2 µl to 10 ml.

- Highest level of ergonomics provided by low weight, light electronic tip ejection and comfortable handle design
- Extensive range of pipetting modes reduces the needed pipetting steps and speeds up work
- Electronic brake and piston control system provide outstanding accuracy and repeatability of pipetting results, independent of the user
- Intuitive user interface in four language options: English, French, German, Russian
- Adjustment wheel offers fast volume setting and menu navigation
- Optiload enables perfect tip sealing for accurate delivery from each channel
- Safe-Cone Filters prevent the risk of contamination cost-effectively
- Microwell plate tracker guides the user to pipette into the correct wells
- Calibration adjustment in 1, 2 or 3 points

Picus® NxT

- Certificate of accredited 3-point calibration (per ISO 17025 and ISO 8655)
- User programmable pipetting protocols enable the storage of three frequently needed pipetting workflows
- 2-level password protection for stored programs to prevent unauthorized changes (optional)
- Pipette locking, e.g. in case of contamination, increases lab safety by disabling the pipette from use.
- Service and calibration reminders help the users to remember important service dates.
- Repeated blow-out helps to dispense the last droplets of e.g. viscous liquids

2



2 Electronic single channel pipette Picus®/Picus® NxT

Sartorius Lab Instruments

Type	Capacity	Increments	Accuracy max. vol.	Precision max. vol.	Optifit Tips	PK	Cat. No.
	µl	µl	(± R%)	(≤ CV%)	µl		
Picus®	0.2-10	0.01	0.90	0.40	10	1	6.266 285
Picus®	5-120	0.10	0.40	0.15	200, 350	1	7.657 874
Picus®	10-300	0.20	0.40	0.15	350	1	7.657 739
Picus®	50-1000	1.00	0.40	0.15	1000	1	6.257 443
Picus®	100-5000	5.00	0.50	0.15	5000	1	6.261 420
Picus®	500-10000	10.00	0.60	0.20	10000	1	6.261 421
Picus® NxT	0.2-10	0.01	0.90	0.40	10	1	4.658 709
Picus® NxT	5-120	0.10	0.40	0.15	200, 350	1	4.658 710
Picus® NxT	10-300	0.20	0.40	0.15	350	1	4.658 711
Picus® NxT	50-1000	1.00	0.40	0.15	1000	1	4.658 712
Picus® NxT	100-5000	5.00	0.50	0.15	5000	1	4.658 713
Picus® NxT	500-10000	10.00	0.60	0.20	10000	1	4.658 714

3



3 Electronic multichannel microliter pipettes Picus®/Picus® NxT

Sartorius Lab Instruments

Type	Channels	Capacity	Increments	Accuracy max. vol.	Precision max. vol.	Optifit Tips	PK	Cat. No.
		µl	µl	(± R%)	(≤ CV%)	µl		
Picus®	8	0.2-10	0.01	0.90	0.50	10	1	6.284 894
Picus®	8	5-120	0.10	0.50	0.20	200, 350	1	7.910 253
Picus®	8	10-300	0.20	0.50	0.20	350	1	4.658 704
Picus®	8	50-1200	1.00	0.50	0.20	1200	1	4.652 483
Picus® NxT	8	0.2-10	0.01	0.90	0.50	10	1	4.658 715
Picus® NxT	8	5-120	0.10	0.50	0.20	200, 350	1	4.658 716
Picus® NxT	8	10-300	0.20	0.50	0.20	350	1	4.658 717
Picus® NxT	8	50-1200	1.00	0.50	0.20	1200	1	4.658 718
Picus®	12	0.2-10	0.01	0.90	0.50	10	1	4.658 705
Picus®	12	5-120	0.10	0.50	0.20	200, 350	1	4.658 706
Picus®	12	10-300	0.20	0.50	0.20	350	1	4.658 707
Picus®	12	50-1200	1.00	0.50	0.20	1200	1	4.658 708
Picus® NxT	12	0.2-10	0.01	0.90	0.50	10	1	4.658 719
Picus® NxT	12	5-120	0.10	0.50	0.20	200, 350	1	4.658 720
Picus® NxT	12	10-300	0.20	0.50	0.20	350	1	4.658 721
Picus® NxT	12	50-1200	1.00	0.50	0.20	1200	1	4.658 722

1 2 Single channel/Multichannel microliter pipettes F1-ClipTip™

Available with fixed or adjustable volume.

The innovative ClipTip™ interlocking technology ensures a complete seal with minimal tip attachment and ejection force. Achieve newfound confidence knowing that once attached, your tips are locked firmly in place, and will not loosen or fall off regardless of application pressure. The innovative three interlocking clip design ensures the tip is held securely on the F1-ClipTip™ pipette only until it is released.

- Tip is locked and sealed in place until ejected, no dropped tips that waste valuable samples
- Complete seal to secure the sample volume in the tip, enhanced accuracy and precision
- Tips are attached and ejected with a light touch, which eliminates the frustration of banging tips on the pipette
- Ergonomic design and Soft-touch tip ejection: Offering low attachment, ejection and plunger forces for safe and comfortable use
- Remarkably lightweight: Modern design protects user from the risk of Repetitive Strain Injuries (RSI)
- Adjustable comfort: The 120° adjustable finger rest for both right- and left-handed operator comfort, allows the hand to relax during pipetting cycles
- Super blow-out: 150% increase in air boost to ensure efficient delivery of micro-volumes and prevent capillary action (Available for models up to 50µl)
- Silent, effortless volume adjustment with over 50% lower forces compared to earlier models. Improved grip on the volume adjustment knob ensures precise adjustment.
- Secure volume lock prevents undesirable volume drift during operation.
- Industry-leading lifetime warranty: With convenient online registration
- Certifications: Manufactured according to ISO 9001, ISO 14001 and ISO 13485.
- "Snap and Seal" technology uses small incorporated protrusions inside the tip that snap on the tip fitting collar. The flexible plastic lip design seals the tip against the tip fitting.



Single channel microliter pipettes F1-ClipTip, variable

Thermo Scientific

Capacity	Increments	Accuracy max. vol.	Precision max. vol.	Colour code	Tip	PK	Cat. No.
µl	µl	(± R%)	(≤ CV%)				
0.1 - 2 *	0.002	33.0	25.0	pink	ClipTip™ 12.5 Ext	1	4.665 072
1 - 10	0.02	2.5	2.0	pink	ClipTip™ 20	1	6.284 607
1 - 10 *	0.02	2.5	2.0	pink	ClipTip™ 12.5 Ext	1	4.665 073
2 - 20	0.02	3.0	2.5	pink	ClipTip™ 20	1	4.658 828
5 - 50	0.1	3.0	2.5	violet	ClipTip™ 50	1	4.658 829
10 - 100	0.2	3.0	1.0	yellow	ClipTip™ 200	1	4.658 830
20 - 200	0.2	1.8	0.7	yellow	ClipTip™ 200	1	4.658 831
30 - 300	1.0	1.5	0.6	orange	ClipTip™ 300	1	4.658 832
100 - 1000	1.0	1.0	0.6	blue	ClipTip™ 1000	1	4.658 833

* With "Snap and Seal" technology

Single channel microliter pipettes F1-ClipTip™, fix

Thermo Scientific

Capacity	Accuracy max. vol.	Precision max. vol.	Tip	PK	Cat. No.
µl	(± R%)	(≤ CV%)			
10	0.9	0.8	ClipTip™ 20	1	4.658 834
10	0.9*	0.8	ClipTip™ 12.5 Ext	1	4.665 074
20	0.7	0.5	ClipTip™ 20	1	4.658 835
25	0.6	0.5	ClipTip™ 50	1	4.658 836
50	0.6	0.4	ClipTip™ 50	1	4.658 837
100	0.4	0.3	ClipTip™ 200	1	4.658 838
200	0.4	0.3	ClipTip™ 200	1	4.658 839
250	0.4	0.3	ClipTip™ 300	1	4.658 840
500	0.3	0.3	ClipTip™ 1000	1	4.658 841
1000	0.3	0.3	ClipTip™ 1000	1	4.658 842

* With "Snap and Seal" technology

Multichannel microliter pipettes F1-ClipTip™, variable

Thermo Scientific

Capacity	Increments	Accuracy max. vol.	Precision max. vol.	Channels	Colour code	Tip	PK	Cat. No.
µl	µl	(± R%)	(≤ CV%)					
1 - 10 *	0.02	12.0	8.0	8	pink	ClipTip™ 12.5 Ext	1	4.665 075
5 - 50	0.1	5.0	2.0	8	violet	ClipTip™ 50	1	4.658 844
10 - 100	0.2	5.0	2.0	8	yellow	ClipTip™ 200	1	4.658 845
30 - 300	1.0	5.0	2.0	8	orange	ClipTip™ 300	1	4.658 846
1 - 10 *	0.02	12.0	8.0	12	pink	ClipTip™ 12.5 Ext	1	4.665 076
5 - 50	0.1	5.0	2.0	12	violet	ClipTip™ 50	1	4.658 848
10 - 100	0.2	5.0	2.0	12	yellow	ClipTip™ 200	1	4.658 849
30 - 300	1.0	5.0	2.0	12	orange	ClipTip™ 300	1	4.658 850

* With "Snap and Seal" technology

Electronic single channel microliter pipettes E1-ClipTip™, variable

Thermo Scientific

Capacity	Increments	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	Colour code	Tip	PK	Cat. No.
µl	µl						
0.5 - 12.5	0.01	1.0 - 4.0	0.4 - 4.0	Pink	ClipTip™ 12.5	1	9.282 694
2 - 125	0.1	0.6 - 2.4	0.2 - 0.8	Yellow	ClipTip™ 200	1	9.282 695
10 - 300	0.1	0.6 - 1.7	0.2 - 0.5	Orange	ClipTip™ 300	1	9.282 696
50 - 1250	1.0	0.5 - 2.4	0.1 - 0.5	Turquoise	ClipTip™ 1250	1	9.282 697

Electronic multichannel microliter pipettes E1-ClipTip™, variable

Thermo Scientific

Capacity	Increments	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	Channels	Colour code	Tip	PK	Cat. No.
µl	µl							
0.5 - 12.5	0.01	2.5 - 12.0	1.6 - 12.0	8	Pink	ClipTip™ 12.5	1	9.282 698
2 - 125	0.1	2.0 - 8.0	0.6 - 4.0	8	Yellow	ClipTip™ 200	1	9.282 699
10 - 300	0.1	2.0 - 5.0	0.6 - 2.0	8	Orange	ClipTip™ 300	1	9.282 700
50 - 1250	1	1.4 - 4.0	0.6 - 1.5	8	Turquoise	ClipTip™ 1250	1	9.282 701
0.5 - 12.5	0.01	2.5 - 12.0	1.6 - 12.0	12	Pink	ClipTip™ 12.5	1	9.282 702
2 - 125	0.1	2.0 - 8.0	0.6 - 4.0	12	Yellow	ClipTip™ 200	1	9.282 703
10 - 300	0.1	2.0 - 5.0	0.6 - 2.0	12	Orange	ClipTip™ 300	1	9.282 704
30 - 850	1	1.5 - 4.7	0.6 - 2.0	12	Blue	ClipTip™ 1000	1	9.282 705
0.5 - 12.5	0.01	2.5 - 12.0	1.6 - 12.0	16	Pink	ClipTip™ 384 12.5	1	9.282 706
1 - 30	0.01	2.0 - 10.0	0.9 - 7.0	16	Violet	ClipTip™ 384 30	1	9.282 707
2 - 125	0.1	2.0 - 8.0	0.6 - 4.0	16	Yellow	ClipTip™ 384 125	1	9.282 708

1



1 Pipette Tips ClipTip™

Thermo Scientific ClipTip™ pipette tips provide security with a unique and innovative interlocking technology that ensures a complete seal on every channel with minimal tip attachment and ejection force. Achieve newfound confidence knowing that once attached, your tips are locked firmly in place, and will not loosen or fall off.

- Low retention: Special technology to enable maximum sample recovery
- Versatile Tip Range: Choose from five sizes: 20, 50, 200, 300 and 1000µL
- Immediate traceability
- Compliance: The F1-ClipTip™ pipetting system is CE-marked in accordance with IVD Directive in Europe.
- Certifications: Manufactured according to ISO 9001, ISO 14001, ISO 13485 and free of RNase, DNase, DNA, ATP and endotoxin contamination

Pipette Tips ClipTip™ 20 for 96

Length 4.6cm, volume range 1-20µl, colour code pink.

Thermo Scientific

Suitable for F1-ClipTip™ Cat. No. 9.282 631, 9.282 632, 9.282 638, 9.282 639, 9.282 640, 9.282 641, 9.282 651 and 9.282 655.

Description	Capacity	Package contents	PK	Cat. No.
	µl			
non sterile	1 - 20	10 racks of 96	960	9.282 661
sterile	1 - 20	10 racks of 96	960	9.282 662
non sterile	1 - 20	10 refill packs of 96	960	9.282 663
sterile	1 - 20	10 refill packs of 96	960	9.282 664
Filter tips, sterile	1 - 20	10 racks of 96	960	9.282 665
Filter tips, sterile	1 - 20	10 refill packs of 96	960	9.282 666

Pipette Tips ClipTip™ 200 for 96

Length 5.6cm, volume range 10-200µl, colour code yellow.

Thermo Scientific

Suitable for F1-ClipTip™ Cat. No. 9.282 634, 9.282 635, 9.282 644, 9.282 645, 9.282 653 and 9.282 657.

Description	Capacity	Package contents	PK	Cat. No.
	µl			
non sterile	10 - 200	10 racks of 96	960	9.282 673
sterile	10 - 200	10 racks of 96	960	9.282 674
non sterile	10 - 200	10 refill packs of 96	960	9.282 675
sterile	10 - 200	10 refill packs of 96	960	9.282 676
Filter tips, sterile	10 - 200	10 racks of 96	960	9.282 677
Filter tips, sterile	10 - 200	10 refill packs of 96	960	9.282 678

Pipette Tips ClipTip™ 300 for 96

Length 6.3cm/Extended Version 10.0 cm (with long, narrow tip, ideal for pipetting in narrow vessels), volume range 30-300µl, colour code orange.

Thermo Scientific

Suitable for F1-ClipTip™ Cat. No. 9.282 636, 9.282 646, 9.282 654 and 9.282 658.

Description	Capacity µl	Package contents	PK	Cat. No.
non sterile	30 ... 300	10 racks of 96	960	9.282 679
sterile	30 ... 300	10 racks of 96	960	9.282 680
non sterile	30 ... 300	10 inserts of 96	960	9.282 681
sterile	30 ... 300	10 inserts of 96	960	9.282 682
Filter tips, sterile	30 ... 300	10 racks of 96	960	9.282 683
Filter tips, sterile	30 ... 300	10 inserts of 96	960	9.282 684
Extended, non sterile	30 ... 300	10 racks of 96	768	4.672 131
Extended, sterile	30 ... 300	10 racks of 96	768	4.672 132
Extended, filter tips, sterile	30 ... 300	10 racks of 96	768	4.672 133
Extended, reload tower, non sterile	30 ... 300	10 inserts of 96	960	4.672 134

Pipette Tips ClipTip™ 1000 for 96

Length 9.5cm, volume range 100-1000µl, colour code blue.

Thermo Scientific

Suitable for F1-ClipTip™ Cat. No. 9.282 637, 9.282 647 and 9.282 648.

Description	Capacity µl	Package contents	PK	Cat. No.
non sterile	100 - 1000	8 racks of 96	768	9.282 685
sterile	100 - 1000	8 racks of 96	768	9.282 686
non sterile	100 - 1000	8 refill packs of 96	768	9.282 687
sterile	100 - 1000	8 refill packs of 96	768	9.282 688
Filter tips, sterile	100 - 1000	8 racks of 96	768	9.282 689
Filter tips, sterile	100 - 1000	8 refill packs of 96	768	9.282 690

Further models can be found in our online shop.

1 Single Channel Microliter Pipettes FinnpiPETTE™ Digital, variabel

The Thermo Scientific FinnpiPETTE Digital combines robust durability and consistent performance. The lightweight design and the finger rest reduce hand fatigue to make pipetting comfortable.

Thermo Scientific

- Completely autoclavable for use in sterile lab environments
- Durable and reliable
- Precise pipetting even with low volumes
- With the improved super blow-out system
- Clearly read selected volumes while securing plunger into place to avoid volume drift
- Release tips using minimal effort with the geared tip ejector



Capacity µl	Increments µl	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	Colour code	Suitable FinnTip Tips	PK	Cat. No.
0.2 - 2*	0.01	2.5	2.0	Pink	Finntip 10, Flex 10, 20 micro, 50 micro	1	6.224 244
0.5 - 10*	0.1	1.0	0.5	Grey	Finntip 10, Flex 10, 20 micro, 50 micro	1	6.084 360
0.5 - 10	0.1	1.0	0.8	Grey	Finntip 300, Flex 200, 200 Ext, 250 Univ, Flex 300	1	6.083 925
2 - 20	0.1	1.0	0.4	Orange	Finntip 300, Flex 200, 200 Ext, 250 Univ, Flex 300	1	6.084 361
5 - 50	0.5	0.6	0.3	Orange	Finntip 300, Flex 200, 200 Ext, 250 Univ, Flex 300	1	9.283 752
10 - 100	1	0.8	0.2	Yellow	Finntip 300, Flex 200, 200 Ext, 250 Univ, Flex 300	1	6.056 307
20 - 200	1	0.6	0.2	Yellow	Finntip 300, Flex 200, 200 Ext, 250 Univ, Flex 300	1	9.283 753
100 - 1000	5	0.6	0.2	Blue	Finntip 1000, Flex 1000, 1000 Ext, Flex 1200	1	6.084 365
1000 - 5000	50	0.5	0.2	Green	Finntip 5 ml	1	9.283 755
2000 - 10000	100	0.5	0.2	Red	Finntip 10 ml, Flex 10 ml Ext	1	6.051 306

*Microtip

1



1 Single channel microliter pipettes Finn timer™ F1

The Thermo Scientific™ Finn timer™ F1 system delivers performance with precision, all in a lightweight design that maximizes user comfort and reduces strain. It's the ideal system for applications using expensive reagents and valuable samples. The Finn timer F1 now takes pipetting to a whole new level with significant new enhancements:

- Volume adjustment is virtually effortless and silent, also enabling one-handed volume changes for convenience.
- Textured adjustment knob provides a feel of confidence when setting volumes. Optional handle strips also enable a firmer grip.
- Lower pipetting forces now reduce Repetitive Stress Injury (RSI) even further without compromising results
- 120° adjustable finger rest - for both right- and left-handed operator comfort
- Soft touch tip ejection combined with the softer collar of Finntip Flex tips reduces ejection forces
- Super blow-out: 150% increase in air boost ensures efficient delivery of micro-volumes and prevents capillary action in 50 µL models and below
- Convenient Color-coding: Finn timer and Finntips are color-coded by volume to make it easy to select the right pipette and tips
- F1 Finn timer are certified to meet standards - ISO 9001, ISO 14001 and ISO 13485.
- 5-year warranty with online registration

Single channel microliter pipettes Finn timer™ F1, fix

Thermo Scientific

Capacity µl	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	Suitable Finntip Tips	PK	Cat. No.
10	0.9	0.8	Finntip 250, Filter 10, Flex 200, Flex Filter 10, 200 Ext	1	4.658 801
25	0.6	0.5	Finntip 250, Filter 10, Flex 200, Flex Filter 10, 200 Ext	1	4.658 802
50	0.6	0.4	Finntip 250, Filter 10, Flex 200, Flex Filter 10, 200 Ext	1	4.658 803
100	0.4	0.3	Finntip 250, Filter 10, Flex 200, Flex Filter 10, 200 Ext	1	4.658 804
250	0.4	0.3	Finntip 1000, Filter 1000, Flex 1000, Flex Filter 1000, 1000 Ext, Filter 1000 Ext	1	4.658 805
500	0.3	0.3	Finntip 1000, Filter 1000, Flex 1000, Flex Filter 1000, 1000 Ext, Filter 1000 Ext	1	4.658 806
1000	0.3	0.3	Finntip 5 ml, Filter 5 ml	1	4.658 807
2000	0.3	0.2	Finntip 5 ml, Filter 5 ml	1	4.658 808
3000	0.3	0.2	Finntip 5 ml, Filter 5 ml	1	4.658 809
5000	0.3	0.2	Finntip 5 ml, Filter 5 ml	1	4.658 810
10000	0.3	0.2	Finntip 10 ml, Filter 10 ml, Flex 10 ml Ext	1	4.658 811
20	0.7	0.5	Finntip 250, Filter 10, Flex 200, Flex Filter 10, 200 Ext	1	4.658 812
200	0.4	0.3	Finntip 250, Filter 10, Flex 200, Flex Filter 10, 200 Ext	1	4.658 813

Single channel microliter pipettes Finn timer™ F1, variable

Thermo Scientific

Capacity µl	Increments µl	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	Colour code	Suitable Finntip Tips	PK	Cat. No.
0.2 - 2*	0.002	12.0	2.0	pink	Finntip 10, Filter 10, Flex 10, Flex Filter 10	1	4.658 787
0.5 - 5*	0.01	6.0	1.0	pink	Finntip 10, Filter 10, Flex 10, Flex Filter 10	1	4.658 788
1 - 10*	0.02	2.5	0.5	pink	Finntip 10, Filter 10, Flex 10, Flex Filter 10	1	4.658 789
1 - 10	0.02	3.5	0.8	yellow	Finntip 250, Filter 10, Flex 200, Flex Filter 10, 200 Ext	1	4.658 790
2 - 20*	0.02	3.0	0.4	turquoise	Finntip 50, Filter 50	1	4.658 791
2 - 20	0.02	3.0	0.4	yellow	Finntip 250, Filter 20, Flex 200, Flex Filter 30, 200 Ext	1	4.658 792
5 - 50*	0.2	3.0	3.0	turquoise	Finntip 50, Filter 50	1	4.658 799
5 - 50	0.2	3.0	3.0	yellow	Flex 200, 250 Univ., 300, 200 Ext	1	4.658 800
10 - 100	0.2	3.0	0.2	yellow	Finntip 250, Filter 100, Flex 200, Flex Filter 100, 200 Ext, Filter 100 Ext	1	4.658 793
20 - 200	0.2	1.8	0.2	yellow	Finntip 250, Filter 200, Flex 200, Flex Filter 200, 200 Ext, Filter 200 Ext	1	4.658 794
30 - 300	1.0	1.5	0.2	orange	Finntip 300, Filter 300, Flex 300, Flex Filter 300	1	4.658 795
100 - 1000	1.0	1.0	0.2	blue	Finntip 1000, Filter 1000, Flex 1000, Flex Filter 1000, 1000 Ext, Filter 1000 Ext	1	4.658 796
500 - 5000	10.0	2.0	0.2	green	Finntip 5 ml, Filter 5 ml	1	4.658 797
1000 - 10000	20.0	2.0	0.2	red	Finntip 10 ml, Filter 10 ml, Flex 10 ml Ext	1	4.658 798

*Microtip

1 Single channel microliter pipettes FinnpiPETTE™ F2

1



Introducing the new Thermo Scientific FinnpiPETTE™ F2, a pipette that has all the right qualities. It has a light pipetting action, it is easy to use, and it is fully autoclavable. Furthermore, the FinnpiPETTE™ F2 offers outstanding reliability, which we guarantee with a 5 year warranty. Add to this great accuracy and precision, and you know the FinnpiPETTE™ F2 is a winner.

- Advanced Volume Gearing (AVG) mechanism - increased accuracy, precision and durability
- Light pipetting forces - improved ergonomics to minimise the risk of RSI
- Double-action pipetting button - prevents accidental volume alteration during pipetting
- Very large Ergovisio display - very big and clear display
- Both single channel and multichannel pipettes are fully autoclavable
- 5 year warranty



Single channel microliter pipettes FinnpiPETTE™ F2, fix

Thermo Scientific

Capacity µl	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	Suitable Finntip Tips	PK	Cat. No.
1	4.0	4.0	Finntip 10, Filter 10, Flex 10, Flex Filter 10	1	9.282 450
5	1.4	1.4	Finntip 10, Filter 10, Flex 10, Flex Filter 10	1	9.282 451
10	0.9	0.8	Finntip 250, Filter 10, Flex 200, Flex Filter 10, 200 Ext	1	9.282 452
25	0.6	0.5	Finntip 250, Filter 10, Flex 200, Flex Filter 10, 200 Ext	1	9.282 453
20	0.6	0.5	Finntip 250, Filter 10, Flex 200, Flex Filter 10, 200 Ext	1	9.282 463
50	0.6	0.4	Finntip 250, Filter 10, Flex 200, Flex Filter 10, 200 Ext	1	9.282 454
100	0.4	0.3	Finntip 250, Filter 10, Flex 200, Flex Filter 10, 200 Ext	1	9.282 455
200	0.4	0.3	Finntip 250, Filter 10, Flex 200, Flex Filter 10, 200 Ext	1	9.282 464
250	0.4	0.3	Finntip 1000, Filter 1000, Flex 1000, Flex Filter 1000, 1000 Ext, Filter 1000 Ext	1	9.282 456
500	0.3	0.3	Finntip 1000, Filter 1000, Flex 1000, Flex Filter 1000, 1000 Ext, Filter 1000 Ext	1	9.282 457
1000	0.3	0.3	Finntip 5 ml, Filter 5 ml	1	9.282 458
2000	0.3	0.2	Finntip 5 ml, Filter 5 ml	1	9.282 459
3000	0.3	0.2	Finntip 5 ml, Filter 5 ml	1	9.282 460
5000	0.3	0.2	Finntip 5 ml, Filter 5 ml	1	9.282 461
10000	0.3	0.2	Finntip 10 ml, Filter 10 ml, Flex 10 ml Ext	1	9.282 462

Single channel microliter pipettes FinnpiPETTE™ F2, variable

Thermo Scientific

Capacity µl	Increments µl	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	Colour code	Suitable Finntip Tips	PK	Cat. No.
0,2 - 2*	0.002	12.0	2.0	Pink	Finntip 10, Filter 10, Flex 10, Flex Filter 10	1	6.240 102
0,5 - 5*	0.01	6.0	1.0	Pink	Finntip 10, Filter 10, Flex 10, Flex Filter 10	1	6.233 742
1 - 10*	0.02	2.5	0.5	Pink	Finntip 10, Filter 10, Flex 10, Flex Filter 10	1	9.282 465
1 - 10	0.02	3.5	0.8	Yellow	Finntip 250, Filter 10, Flex 200, Flex Filter 10, 200 Ext	1	6.240 360
2 - 20*	0.02	3.0	0.4	Turquoise	Finntip 50, Filter 50	1	9.282 466
2 - 20	0.02	3.0	0.4	Yellow	Finntip 250, Filter 20, Flex 200, Flex Filter 30, 200 Ext	1	6.233 743
5 - 50*	0.1	0.3	0.3	Turquoise	Finntip 50, Filter 50	1	6.251 900
5 - 50	0.1	0.3	0.3	Yellow	Finntip 250, Filter 100, Flex 200, Flex Filter 100, 200 Ext, Filter 100 Ext	1	6.239 178
10 - 100	0.2	3.0	0.2	Yellow	Finntip 250, Filter 100, Flex 200, Flex Filter 100, 200 Ext, Filter 100 Ext	1	9.282 467
20 - 200	0.2	1.8	0.2	Yellow	Finntip 250, Filter 200, Flex 200, Flex Filter 200, 200 Ext, Filter 200 Ext	1	6.233 744
100 - 1000	1.0	1.0	0.2	Blue	Finntip 1000, Filter 1000, Flex 1000, Flex Filter 1000, 1000 Ext, Filter 1000 Ext	1	6.233 745
500 - 5000	10.0	2.0	0.2	Green	Finntip 5 ml, Filter 5 ml	1	6.238 106
1000 - 10000	20.0	2.0	0.2	Red	Finntip 10 ml, Filter 10 ml, Flex 10 ml Ext	1	6.239 136

*Microtip

1



1 Single channel microliter pipettes Finn timer™ F3

Ergonomic comfort, high accuracy and precision, reliability and easy maintenance in one of the lightest pipettes. With AVG - Advanced Volume Gearing - a self-supportive modular mechanism for light movement and smaller steps in volume adjustment.

Thermo Scientific

- Colour-coded for easy volume identification
- Large display with white digits on black background
- Built-in supporting finger rest to relax the hand and avoid RSI symptoms
- Dual-function pipetting knob with rotatable top prevents accidental volume alteration
- High-quality blow-out piston for volumes of 50 µl and below enables the safe dispensing of microdroplets
- Autoclavable (tip cone and tip ejector)

Single Channel Microliter Pipettes Finn timer™ F3, variable

Thermo Scientific

Capacity µl	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	Colour code	Suitable Finntip Tips	PK	Cat. No.
1 - 10*	2.5	2.0	pink	Finntip 10, Flex 10	1	4.665 771
1 - 10	3.5	3.0	yellow	Finntip 250 Universal, 200 Ext, Flex 300	1	7.920 376
2 - 20*	3.0	2.5	turquoise	Finntip 50	1	4.665 773
2 - 20	3.0	2.5	yellow	Finntip 250 Universal, 200 Ext, Flex 200	1	4.665 774
5 - 50*	3.0	2.5	turquoise	Finntip 50	1	4.665 775
5 - 50	3.0	2.5	yellow	Finntip 250 Universal, Flex 200	1	6.274 836
500 - 5000	2.0	0.8	green	Finntip 5 ml	1	6.266 423
10 - 100	3.0	1.0	yellow	Finntip 250 Universal, 200 Ext, Flex 300	1	6.265 747
20 - 200	3.0	1.5	yellow	Finntip 250 Universal, 200 Ext, Flex 200	1	6.255 795
100 - 1000	1.5	0.6	blue	Finntip 1000, Flex 1000	1	6.236 331
1000 - 10000	2.0	0.8	red	Finntip 10 ml, Flex 10 ml Ext	1	6.264 795

*Microtip

2



2 Pipette stand for single and multichannel microliter pipettes F1/F2

Provide safe and convenient storage for manual and electronic pipettes using.

Thermo Scientific

Description	PK	Cat. No.
With 6 slots	1	9.282 440

3



6.224 912

Pipette stands for Single channel microliter pipettes

3-, 4-, and 6-place pipette stands are designed to hold most major pipette brands.

Heathrow Scientific

4



6.236 495

Array	Material	Colour	PK	Cat. No.
3	Acrylic	Transparent	1	6.224 912 3
4	Acrylic	Transparent	1	6.242 001
6	Acrylic	Transparent	1	6.243 244
6	Acrylic	Blue, transparent	1	6.236 495 4
6	ABS	Blue	1	9.283 171

1 Electronic single channel microliter pipettes Finnpi[™] Novus, variable

1



Thermo Scientific



Thermo Scientific Finnpi[™] Novus Single Channel Electronic Pipettors offer performance with simple operation and reduced stress for comfortable, productive pipetting.

- Easy to use simple text guided user interface and operator button layout.
- Large display shows all the names of the functions without abbreviations.
- Ergonomic and lightweight design with balanced weight distribution enables longer work periods without fatigue.
- Finger rest is adjustable by 120 degrees to find the optimal pipetting position for both left hand and right hand users.
- Adjustable finger rest leaves your index finger free to control pipetting with minimum effort using the trigger action pipetting button.
- Light-touch tip ejector minimizes strain on your thumb with the very low tip ejection force and can be used with both right and left-hand.
- Finnpi[™] Novus has 10 different pipetting functions to cover most pipetting applications in the laboratory.
- 9 different speeds which can be separately adjusted for dispensing and aspirating, to optimize pipetting with different reagents.
- 9 built-in memory slots to store your own combination of the 10 different pipetting functions.
- Intuitive menu ensures easy access to pipetting functions for all laboratory pipetting applications.
- Light, long lasting battery allowing over 4000 pipetting actions.
- Fast recharge battery, fully recharged within 1 hour and the pipette is fully operational while recharging.
- Finnpi[™] Novus designed for easy in-lab calibration and service.
- The tip cone is fully autoclavable.
- Color coded buttons and color coded ring help identify the matching Finntip model.

Capacity µl	Increments µl	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	Colour code	Suitable Finntip Tips	PK	Cat. No.
1 - 10*	0.01	3.5	3.0	pink	Finntip 10, Filter 10, Flex 10, Flex Filter 10	1	6.228 698
1 - 10	0.01	7.0	6.0	yellow	Finntip 250, Filter 10, Flex 200, Flex Filter 10, 200 Ext	1	9.282 480
5 - 50*	0.1	3.0	2.5	turquoise	Finntip 50, Filter 50	1	6.228 699
5 - 50	0.1	3.0	2.5	yellow	Finntip 250 Univ, Filter 100, Flex 200, Flex Filter 100, 200 Ext, Filter 100 Ext	1	6.228 700
10 - 100	0.1	3.0	1.0	yellow	Finntip 250 Univ, Filter 100, Flex 200, Flex Filter 100, 200 Ext, Filter 100 Ext	1	6.228 701
30 - 300	1.0	3.0	0.7	orange	Finntip 300, Filter 300, Flex 300, Flex Filter 300	1	6.228 702
100 - 1000	1.0	3.0	0.6	blue	Finntip 1000, Filter 1000, Flex 1000, Flex Filter 1000, 1000 Ext, Filter 1000 Ext	1	6.228 703
500 - 5000	10.0	3.0	0.8	green	Finntip 5 ml, Filter 5 ml	1	6.228 704
1000 - 10000	10.0	3.0	0.8	red	Finntip 10 ml, Filter 10 ml, Flex 10 ml Ext	1	6.228 705

*Microtip



We can **supply** this
manufacturer's
whole
product range !



1 Multichannel microliter pipettes FinnpiPETTE™ F1, variable

FinnpiPETTE™ F1 multichannel pipettes are available in 8-, 12- and 16-channel models with a wide selection of volume ranges. As with the single channel FinnpiPETTE™ F1 pipettes, the AVG mechanism ensures a high level of accuracy and precision. The soft-touch tip ejection is especially useful on multichannel models, significantly reducing the effort needed to eject multiple tips. In addition, in the low volume models the super blow-out function ensures accurate dispensing for even the lowest volumes.

Thermo Scientific

Capacity µl	Increments µl	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	Channels	Colour code	Suitable Finntip Tips	PK	Cat. No.
1 - 10	0,02	12,0	8,0	8	pink	Finntip 10, Filter 10, Flex 10, Flex Filter 10	1	4.658 814
5 - 50	0,1	5,0	2,0	8	yellow	Finntip 250, Filter 100, Flex 200, Flex Filter 100, 200 Ext, Filter 100 Ext	1	4.658 815
10 - 100	0,2	5,0	2,0	8	yellow	Finntip 250, Filter 100, Flex 200, Flex Filter 100, 200 Ext, Filter 100 Ext	1	4.658 816
30 - 300	1,0	5,0	2,0	8	orange	Finntip 300, Filter 300, Flex 300, Flex Filter 300	1	4.658 817
1 - 10	0,02	12,0	8,0	12	pink	Finntip 10, Filter 10, Flex 10, Flex Filter 10	1	4.658 818
5 - 50	0,1	5,0	2,0	12	yellow	Finntip 250, Filter 100, Flex 200, Flex Filter 100, 200 Ext, Filter 100 Ext	1	4.658 819
10 - 100	0,2	5,0	2,0	12	yellow	Finntip 250, Filter 100, Flex 200, Flex Filter 100, 200 Ext, Filter 100 Ext	1	4.658 820
30 - 300	1,0	5,0	2,0	12	orange	Finntip 300, Filter 300, Flex 300, Flex Filter 300	1	4.658 821
1 - 10	0,02	12,0	8,0	16	violet	Finntip 20, Filter 20	1	4.658 822
5 - 50	0,1	5,0	2,0	16	turquoise	Finntip 50, Filter 50	1	4.658 823

2 Multichannel microliter pipettes FinnpiPETTE™ F2, variable

The FinnpiPETTE™ F2 multichannel pipettes are available in 8-, 12- and 16-channel models with a selection of volume ranges. As with the single channel FinnpiPETTE™ F2 pipettes, the AVG mechanism ensures a high level of accuracy and precision. In addition, in the low volume models the super blow-out function ensures accurate dispensing for even the lowest volumes.

Thermo Scientific

Capacity µl	Increments µl	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	Channels	Colour code	Suitable Finntip Tips	PK	Cat. No.
1 - 10	0.02	0.24	8.0	8	pink	Finntip 10, Filter 10, Flex 10, Flex Filter 10	1	9.282 470
5 - 50	0.1	0.75	2.0	8	yellow	Finntip 250, Filter 100, Flex 200, Flex Filter 100, 200 Ext, Filter 100 Ext	1	9.282 471
10 - 100	0.2	1.3	2.0	8	yellow	Finntip 250, Filter 100, Flex 200, Flex Filter 100, 200 Ext, Filter 100 Ext	1	9.282 472
30 - 300	1.0	3.0	2.0	8	orange	Finntip 300, Filter 300, Flex 300, Flex Filter 300	1	9.282 473
1 - 10	0.02	0.24	8.0	12	pink	Finntip 10, Filter 10, Flex 10, Flex Filter 10	1	9.282 474
5 - 50	0.1	0.75	2.0	12	yellow	Finntip 250, Filter 100, Flex 200, Flex Filter 100, 200 Ext, Filter 100 Ext	1	9.282 475
10 - 100	0.2	1.3	2.0	12	yellow	Finntip 250, Filter 100, Flex 200, Flex Filter 100, 200 Ext, Filter 100 Ext	1	9.282 476
30 - 300	1.0	3.0	2.0	12	orange	Finntip 300, Filter 300, Flex 300, Flex Filter 300	1	9.282 477
1 - 10	0.02	0.24	8.0	16	violet	Finntip 20, Filter 20	1	9.282 478
5 - 50	0.1	0.75	2.0	16	turquoise	Finntip 50, Filter 50	1	9.282 479

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2



1 Electronic multichannel microliter pipettes FinnpiPETTE™ Novus, variable



Thermo Scientific

Thermo Scientific FinnpiPETTE™ Novus Multichannel Pipettors offer superior performance for microplate applications.

- Easy to use simple text guided user interface and operator button layout.
- Large display shows all the names of the functions without abbreviations.
- Features multi-language programming: English, French, German, Italian, Japanese, Spanish, and Swedish.
- Ergonomic and lightweight design with balanced weight distribution enables longer work periods without fatigue.
- Finger rest is adjustable by 120 degrees to find the optimal pipetting position for both left hand and right hand users.
- Adjustable finger rest leaves your index finger free to control pipetting with minimum effort using the trigger action pipetting button.
- Light-touch tip ejector minimizes strain on your thumb with the very low tip ejection force and can be used with both right and left-hand.
- FinnpiPETTE™ Novus has 10 different pipetting functions to cover most pipetting applications in the laboratory.
- 9 different speeds which can be separately adjusted for dispensing and aspirating, to optimize pipetting with different reagents.
- 9 built-in memory slots to store your own combinations of the 10 different pipetting functions.
- Intuitive menu ensures easy access to pipetting functions for all laboratory pipetting applications.
- Light, long lasting battery allowing over 4000 pipetting actions.
- Fast recharge battery, can be fully recharged within 1 hour and the pipette is fully operational while recharging.
- FinnpiPETTE™ Novus designed for easy in-lab calibration and service.
- The module is fully autoclavable.
- Color coded buttons to help identify the matching Finntip model.
- Wide range of multichannel models for demanding laboratory tasks.
- Lightweight handle and module has a balanced weight distribution preventing muscle stress and strain.

1



Capacity µl	Increments µl	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	Channels	Colour code	Suitable Finntip Tips	PK	Cat. No.
1 - 10	0.01	12.0	8.0	8	pink	Finntip 10, Filter 10, Flex 10, Flex Filter 10	1	6.228 706
5 - 50	0.1	5.0	2.0	8	yellow	Finntip 250, Filter 100, Flex 200, Flex Filter 100, 200 Ext, Filter 100 Ext	1	6.228 707
30 - 300	1.0	3.0	0.9	8	orange	Finntip 300, Filter 300, Flex 300, Flex Filter 300	1	6.228 708
100 - 1200	1.0	3.0	0.9	8	turquoise	Flex 1200, Flex Filter 1200	1	6.228 709
1 - 10	0.01	12.0	8.0	12	pink	Finntip 10, Filter 10, Flex 10, Flex Filter 10	1	9.282 481
5 - 50	0.1	5.0	2.0	12	yellow	Finntip 250, Filter 100, Flex 200, Flex Filter 100, 200 Ext, Filter 100 Ext	1	9.282 482
30 - 300	1.0	3.0	1.0	12	orange	Finntip 300, Filter 300, Flex 300, Flex Filter 300	1	9.282 483
5 - 50	0.1	5.0	2.0	16	turquoise	Finntip 50, Filter 50	1	9.282 484

2 Electronic multichannel microliter pipettes E1-ClipTip™ Equalizer, variable

Perform sample transfers between virtually any tube, rack, microplate or horizontal gel box quickly and efficiently with the Thermo Scientific™ E1-ClipTip™ Equalizer Pipette. Adjustable tip spacing allows you to set the distance between tips by simply sliding the scale to expand or contract to the desired labware format. Feel the difference.

Thermo Scientific

An ideal choice for sample transfers: Reduce repetition and save time between labware formats with adjustable tip spacing in Equalizer models.

2



Capacity µl	Increments µl	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	Channels	Colour code	Tip	Adjustable Tip spacing mm	PK	Cat. No.
50 - 1250	1	1.4 - 4.0	0.6 - 1.5	6	Turquoise	ClipTip™ 1250	9.0 - 19.8	1	9.282 709
2 - 125	0.1	2.0 - 8.0	0.6 - 4.0	8	Yellow	ClipTip™ 200	9.0 - 14.2	1	9.282 710
10 - 300	0.1	2.0 - 5.0	0.6 - 2.0	8	Orange	ClipTip™ 300	9.0 - 14.2	1	9.282 711
50 - 1250	1	1.4 - 4.0	0.6 - 1.5	8	Turquoise	ClipTip™ 1250	9.0 - 14.2	1	9.282 712
0.5 - 12.5	0.01	2.5 - 12.0	1.6 - 12.0	8	Pink	ClipTip™ 384 12.5	4.5 - 14.2	1	9.282 713
1 - 30	0.01	2.0 - 10.0	0.9 - 7.0	8	Violet	ClipTip™ 384 30	4.5 - 14.2	1	9.282 714
2 - 125	0.1	2.0 - 8.0	0.6 - 4.0	8	Yellow	ClipTip™ 384 125	4.5 - 14.2	1	9.282 715
0.5 - 12.5	0.01	2.5 - 12.0	1.6 - 12.0	12	Pink	ClipTip™ 384 12.5	4.5 - 9.0	1	9.282 716
1 - 30	0.01	2.0 - 10.0	0.9 - 7.0	12	Violet	ClipTip™ 384 30	4.5 - 9.0	1	9.282 717
2 - 125	0.1	2.0 - 8.0	0.6 - 4.0	12	Yellow	ClipTip™ 384 125	4.5 - 9.0	1	9.282 718

Further models can be found in our online shop.

Single channel microliter pipettes Eppendorf Research® plus (General Lab Product)



Eppendorf AG

Available with fixed or adjustable volume. The ultra light Eppendorf Research plus pipettor meets the highest requirements in precision and accuracy.

Ergonomic:

- Color-coded control buttons for volume detection
- Four-digit volume display with magnifying display
- Just a few turns to set the desired volume
- Very low operating forces (control knob, ejector)
- Spring-loaded tip cone for optimum tip fit with minimal attachment force

Flexible:

- Selection between single-channel, multi-channel and fixed volume pipettes in different sizes
- Adjustment possibilities for liquids of different density than water

Robust:

- High resistance to chemicals and mechanical stress
- Fully autoclavable

This pipette is a General Lab Product for research purposes.

Online also available as IVD version.

1



1 Single channel microliter pipettes Eppendorf Research® plus (General Lab Product), fix

- Eppendorf PerfectPiston™: ultra-light piston made of Fortron® (except 10µl pipettors)
- quick connection clip: remove lower housing easily

Eppendorf AG

Capacity µl	Increments µl	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	Colour code	PK	Cat. No.
10	-	1.2	0.6	mid grey	1	4.661 842
10	-	1.2	0.3	yellow	1	4.661 843
20	-	0.8	0.6	light grey	1	4.661 844
20	-	1.0	0.3	yellow	1	4.661 845
25	-	1.0	0.3	yellow	1	4.661 846
50	-	0.7	0.3	yellow	1	4.661 847
100	-	0.6	0.2	yellow	1	4.661 848
200	-	0.6	0.2	yellow	1	4.661 849
200	-	0.6	0.2	blue	1	4.661 850
250	-	0.6	0.2	blue	1	4.661 851
500	-	0.6	0.2	blue	1	4.661 852
1000	-	0.6	0.2	blue	1	4.661 853

2



2 Single channel microliter pipettes Eppendorf Research® plus (General Lab Product), variable



Eppendorf AG

- Manual pipetting with lateral tip ejector for the volume range from 0.1 µl up to 10 ml
- Low weight, low operating forces (PhysioCare concept)
- 4-digit volume display
- Adjustment opening for reversible readjustment of the pipette when using non-aqueous solutions
- Completely autoclavable

Capacity µl	Increments µl	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	Colour code	PK	Cat. No.
0.1 - 2.5	0.002	1.4	0.7	dark grey	1	6.291 700
0.5 - 10	0.01	1.0	0.4	mid grey	1	6.310 668
2 - 20	0.02	1.0	0.3	yellow	1	6.291 701
2 - 20	0.02	1.0	0.2	light grey	1	6.291 704
10 - 100	0.01	0.8	0.2	yellow	1	6.291 702
20 - 200	0.02	0.6	0.2	yellow	1	6.291 703
30 - 300	0.02	0.6	0.2	orange	1	6.291 705
100 - 1000	1.0	0.6	0.2	blue	1	7.648 488
500 - 5000	2.0	0.6	0.15	purple	1	6.290 013
1000 - 10000	10.0	0.6	0.15	turquoise	1	7.649 105

1 Single channel microliter pipettes Eppendorf Research plus 3-Packs (General Lab Product), variable

3 adjustable Eppendorf Research® plus pipettes per pack, choice of 3 packs. Special "mL" large-volume pack with up to 10ml nominal volume, ideal for pipetting cell culture media. Ready-to-use: delivered with matching Eppendorf pipette tips for ultimate user comfort and precision!

Eppendorf AG



- Option 1:** 0.5-10µl, 10-100µl, 100-1.000µl + 3 reusable epT.I.P.S.® boxes with 96 pipette tips each.
- Option 2:** 2-20µl, 20-200µl, 100-1.000µl + 3 reusable epT.I.P.S.® boxes with 96 pipette tips each.
- Option 3:** 100-1.000µl, 0.5-5ml, 1-10ml with samples of matching pipette tips.

Type	PK	Cat. No.
Research® plus 3-Packs, Option 1	3	6.291 172
Research® plus 3-Packs, Option 2	3	6.310 667
Research® plus 3-Packs, Option 3	3	6.291 706

Single channel microliter pipettes Eppendorf Reference® 2 (General Lab Product)



The Reference® 2 is the successor to the highly successful Reference pipette, and enhances the range's already high standards with a new design, reduced weight and operating forces and multi-channel versions. As the premium product in Eppendorf's pipette portfolio, the Reference® 2 provides the most accurate results possible alongside robust, reliable handling and optimum user safety.

New features: An embedded RFID chip contains all relevant data regarding the pipette and offers with Eppendorf TrackIT a simple identification and documentation. The range of the variable single channel pipettes have been extended by the volume sizes up to 5000µl and 10.000µl.

- Color coded and volume labeled for quick identification of the volume size/ tip size
- Round upper part makes it possible to work in every position
- 4-digit display for exact volume setting (clearly visible from every angle)
- Quick and secure volume setting, include volume lock
- Fully autoclavable
- Movable parts and external edges made from stainless steel equip the pipette with outstanding robustness at potential impact sites and for internal components

This pipette is a General Lab Product for research purposes.

Online also available as IVD version.

2 Single channel microliter pipettes Reference® 2 (General Lab Product), fix

Eppendorf AG



Capacity	Increments	Accuracy max. vol.	Precision max. vol.	Control button	PK	Cat. No.
µl	µl	(± R%)	(≤ CV%)	colour		
1	-	2,5	1,8	dark grey	1	4.662 393
2	-	2,0	1,2	dark grey	1	4.662 394
5	-	1,5	0,8	mid grey	1	4.662 395
10	-	1,0	0,5	mid grey	1	4.662 396
10	-	1,0	0,5	yellow	1	4.662 397
20	-	0,8	0,3	light grey	1	4.662 398
20	-	0,8	0,3	yellow	1	4.662 399
25	-	0,8	0,3	yellow	1	4.662 400
50	-	0,7	0,3	yellow	1	4.662 401
100	-	0,6	0,2	yellow	1	4.662 402
200	-	0,6	0,2	yellow	1	4.662 403
200	-	0,6	0,2	blue	1	4.662 404
250	-	0,6	0,2	blue	1	4.662 405
500	-	0,6	0,2	blue	1	4.662 406
1000	-	0,6	0,2	blue	1	4.661 941
2000	-	0,6	0,2	red	1	4.662 407
2500	-	0,6	0,15	red	1	4.662 408



1 Single channel microliter pipettes Eppendorf Reference® 2 (General Lab Product), variable

Eppendorf AG

Capacity	Increments	Accuracy max. vol.	Precision max. vol.	Control button	PK	Cat. No.
μl	μl	(\pm R%)	(\leq CV%)	colour		
0.1 - 2.5	0.002	1.4	0.7	dark grey *	1	4.662 385
0.5 - 10	0.01	1.0	0.4	medium grey	1	6.273 363
0.5 - 10	0.01	1.0	0.4	medium grey *	1	4.662 386
2 - 20	0.02	1.0	0.3	light grey *	1	6.272 839
2 - 20	0.02	1.0	0.3	yellow *	1	6.290 331
10 - 100	0.1	0.8	0.2	yellow *	1	6.272 840
20 - 200	0.2	0.6	0.2	yellow	1	6.273 365
20 - 200	0.2	0.6	0.2	yellow *	1	4.662 387
30 - 300	0.2	0.6	0.2	orange *	1	4.662 388
100 - 1000	1.0	0.6	0.2	blue *	1	6.272 841
250 - 2500	2.0	0.6	0.2	red **	1	7.648 598
500 - 5000	5.0	0.6	0.15	violet **	1	4.662 389
1000 - 10000	10.0	0.6	0.15	turquoise **	1	4.662 234

* incl. epT.I.P.S.® Box

***incl. epT.I.P.S.® Sample bag

2 Single channel microliter pipettes epReference® 2 (General Lab Product), 3-Pack

Economic package containing three variable single channel pipettes and suitable tips for each pipette.

Eppendorf AG

Option 1: 0.5-10 μl , 10-100 μl , 100-1000 μl + 3 reusable epT.I.P.S.® boxes with 96 pipette tips each.

Option 2: 2-20 μl , 20-200 μl , 100-1000 μl + 3 reusable epT.I.P.S.® boxes with 96 pipette tips each.

Option 3: 100-1000 μl , 0.5-5ml, 1-10ml with musters of the fitting pipette tips.

Type	PK	Cat. No.
Option 1: 0.5-10 μl , 10-100 μl , 100-1000 μl	1	4.662 390
Option 2: 2-20 μl , 20-200 μl , 100-1000 μl	1	4.662 391
Option 3: 100-1000 μl , 0.5-5ml, 1-10ml	1	4.662 392



3 4 Electronic single channel microliter pipettes Eppendorf Xplorer®, variable

The new electronic pipette Eppendorf Xplorer® sets new standards in terms of simplicity, precision and reproducibility.

Eppendorf AG

- Multifunctional rocker: "Up is up and down is down"™ principle
- Easy selection of all functions with the practical selection dial
- Operate in the language of your choice
- Clearly arranged colour display
- No sub-menus
- Help function
- Innovative rocker: When the tip is ejected, the piston automatically returns to zero position
- Tips always rest in the same position
- Volume & speed precisely and reproducibly adjustable
- Adjustable to your work environment and requirements
- Incl. 230V/50Hz charging adapter. The pipette can be charged directly with the charging adapter. Additionally the charging adapter can also be used with the optional charging stand (Cat. No. 9.283 254) which holds the pipette safely whilst charging.

Capacity	Increments	Accuracy max. vol.	Precision max. vol.	Control button	PK	Cat. No.
μl	μl	(\pm R%)	(\leq CV%)	colour		
0.5 - 10	0.01	1.0	0.4	medium grey	1	9.283 240
5 - 100	0.1	0.8	0.2	yellow	1	9.283 241
15 - 300	0.2	0.6	0.2	orange	1	9.283 242
50 - 1000	1.0	0.6	0.2	blue	1	9.283 243
250 - 5000	5.0	0.6	0.15	purple	1	9.283 244
500 - 10000	10.0	0.6	0.15	turquoise	1	9.283 245



1 Electronic single channel microliter pipettes Eppendorf Xplorer® plus, variable

The electronic pipettes Eppendorf Xplorer plus were specially designed for high professional standards to provide optimal support for you in your work, with a new intuitive operating concept and design based on the proven Eppendorf PhysioCare® Concept.

Eppendorf AG

- Autodispense
- Manual pipetting, multi-aspirate, dilution, sequential pipetting, sequential dispensing, reverse pipetting
- Programming of multiple modes in a sequence
- Setting of fixed volumes
- Password protection
- History function
- Service interval warning

1



Capacity	Increments	Accuracy max. vol.	Precision max. vol.	Control button	PK	Cat. No.
μl	μl	(\pm R%)	(\leq CV%)	colour		
0.5 - 10	0.01	1.0	0.4	medium grey	1	9.283 181
5 - 100	0.1	0.8	0.2	yellow	1	9.283 182
15 - 300	0.2	0.6	0.2	orange	1	9.283 183
50 - 1000	1.0	0.6	0.2	blue	1	9.283 184
250 - 5000	5.0	0.6	0.15	purple	1	9.283 185
500 - 10000	10.0	0.6	0.15	turquoise	1	9.283 186

2 Multichannel microliter pipettes Eppendorf Research® plus (General Lab Product), variable

Eppendorf AG



The ultra light Eppendorf Research plus pipettor meets the highest requirements in precision and accuracy - combined with ultimate ergonomics and increased flexibility. A spring loaded tip cone, a secondary calibration option, an improved volume display - and all this within a fully autoclavable pipette.

- volume adjustment: Only a few turns needed to reach your desired volume
- control button: Requires minimal operating force, colour indicates volume, ergonomically positioned for comfort
- ejector: requires minimal operating force, ergonomically positioned for comfort
- volume display: 4 digits, magnifying window
- calibration display & adjustment opening: Calibrate your pipettor to a specific liquid and volume.
- channel indicator: - use the pipette the same way round - all the time
- remove individual channels: gain flexibility for individual needs
- Eppendorf PerfectPiston™: ultra-light piston made of Fortron® (except 10 μl pipettors)
- quick connection clip: Easily removable lower housing
- spring loaded tip cone: improved ergonomics, tight fit to the tip

This pipette is a General Lab Product for research purposes.

2



Capacity	Increments	Accuracy max. vol.	Precision max. vol.	Channels	Control button	PK	Cat. No.
μl	μl	(\pm R%)	(\leq CV%)		colour		
0.5 - 10	0,01	1,0	0,4	8	mid grey	1	4.661 854
10 - 100	0,1	0,8	0,2	8	yellow	1	4.661 855
30 - 300	0,2	0,6	0,2	8	orange	1	4.661 856
0.5 - 10	0,01	1,0	0,4	12	mid grey	1	4.661 857
10 - 100	0,1	0,8	0,2	12	yellow	1	4.661 858
30 - 300	0,2	0,6	0,2	12	orange	1	4.661 859

Online also available as IVD version.

Pipette stands Eppendorf

Eppendorf AG

Description	PK	Cat. No.
Pipette carousel 2, for 6 Eppendorf Research® / plus, Eppendorf Reference® / 2, Biomaster®	1	6.288 689 1
Pipette stand 2, for 1 Eppendorf Multipipette® M4	1	6.288 693
Pipette holder 2, for 1 Eppendorf Research® / plus, Eppendorf Reference® / 2, Biomaster®, for Pipette carousel 2 and Charging carousel 2 or wall mounting, incl. adhesive tape, without charging function	1	6.288 694
Pipette holder 2, for 1 Eppendorf Xplorer® / plus, for Pipette carousel 2 or wall mounting, incl. adhesive tape, without charging function	1	6.288 695 2
Pipette holder 2, for 1 Eppendorf Multipipette® E3/E3x / stream/Xstream, for Pipette carousel 2 or wall mounting, incl. adhesive tape, without charging function	1	6.288 696
Pipette holder 2, for 1 Eppendorf Multipipette® M4, for Pipette carousel 2 and Charging carousel 2 or wall mounting, incl. adhesive tape, without charging function	1	6.288 697
Charging carousel 2, for 6 Eppendorf Xplorer® / plus, incl. power supply with magnetic contact	1	6.288 690 3
Charging stand 2, for 1 Eppendorf Xplorer® / plus, to use with the power supply included in the delivery of the Eppendorf Xplorer® / plus	1	6.288 691
Charging stand 2, for 1 Eppendorf Multipipette® E3/E3x / stream/Xstream, to use with the power supply included in the delivery of the Multipipette® E3/E3x / stream/Xstream	1	6.288 692 4
Charging cradle 2, for 1 Eppendorf Xplorer® / plus, for Charging carousel 2, with charging function	1	6.288 698
Charging cradle 2, for 1 Eppendorf Multipipette® E3/E3x / stream/Xstream, for Charging carousel 2, with charging function	1	6.288 699



6.288 689



6.288 695



6.288 690



6.288 692

Accessories for pipette stands

Eppendorf AG

Type	PK	Cat. No.
Power adapter for charger carousel 2, with magnetic power connector	1	6.288 700

We can **supply** this
manufacturer's
whole
product range !



1 Multichannel microliter pipettes Eppendorf Reference® 2 (General Lab Product), variable



Eppendorf AG



The Reference® 2 is the successor to the highly successful Reference pipette, and enhances the range's already high standards with a new design, reduced weight and operating forces and multi-channel versions. As the premium product in Eppendorf's pipette portfolio, the Reference® 2 provides the most accurate results possible alongside robust, reliable handling and optimum user safety.

New features: An embedded RFID chip contains all relevant data regarding the pipette and offers with Eppendorf TrackIT simple identification and documentation. The new Reference 2 multi channel offers a channel indicator and a spring-loaded tip cone for optimum tip fit and reduced effort. The range of the variable single channel pipettes have been extended by the volume sizes up to 5000µl and 10.000µl.

- Color coded and volume labeled for quick identification of the volume size/ tip size
- Round upper part makes it possible to work in every position
- 4-digit display for exact volume setting (clearly visible from every angle)
- Quick and secure volume setting, include volume lock
- Fully autoclavable
- Movable parts and external edges made from stainless steel equip the pipette with outstanding robustness at potential impact sites and for internal components
- Channel indicator guarantees a continuously identical pipette alignment during the work process
- Spring-loaded tip cone for reproducible tip fit and reduced effort (to be switched on/off optionally)
- High flexibility and simple maintenance with the ability to remove single cones

This pipette is a General Lab Product for research purposes.

Capacity	Increments	Accuracy max. vol.	Precision max. vol.	Channels	Control button	PK	Cat. No.
µl	µl	(± R%)	(≤ CV%)		colour		
0,5 - 10	0,01	2,0	1,0	8	medium grey	1	4.662 409
10 - 100	0,1	0,8	0,3	8	yellow	1	4.662 411
30 - 300	0,2	0,6	0,3	8	orange	1	4.662 413
0,5 - 10	0,01	2,0	1,0	12	medium grey	1	4.662 410
10 - 100	0,1	0,8	0,3	12	yellow	1	4.662 412
30 - 300	0,2	0,6	0,3	12	orange	1	4.662 414

Online also available as IVD version.

2 Electronic multichannel microliter pipettes Eppendorf Xplorer®, variable

The new electronic pipette Eppendorf Xplorer® sets new standards in terms of simplicity, precision and reproducibility.

Eppendorf AG



- Multifunctional rocker: "Up is up and down is down"™ principle
- Easy selection of all functions with the practical selection dial
- Operate in the language of your choice
- Clearly arranged colour display
- No sub-menus
- Help function
- Innovative rocker: When the tip is ejected, the piston automatically returns to zero position
- Tips always rest in the same position
- Volume & speed precisely and reproducibly adjustable
- Adjustable to your work environment and requirements
- Incl. 230V/50Hz charging adapter. The pipette can be charged directly with the charging adapter. Additionally the charging adapter can also be used with the optional charging stand (Cat. No. 9.283 254) which holds the pipette safely whilst charging.

Capacity	Increments	Accuracy max. vol.	Precision max. vol.	Channels	Control button	PK	Cat. No.
µl	µl	(± R%)	(≤ CV%)		colour		
0,5 - 10	0.01	2.0	0.8	8	medium grey	1	9.283 246
5 - 100	0.1	0.8	0.25	8	yellow	1	9.283 248
15 - 300	0.2	0.6	0.25	8	orange	1	9.283 250
50 - 1200	1.0	1.2	0.3	8	green	1	9.283 252
0,5 - 10	0.01	2.0	0.8	12	medium grey	1	9.283 247
5 - 100	0.1	0.8	0.25	12	yellow	1	9.283 249
15 - 300	0.2	0.6	0.25	12	orange	1	9.283 251
50 - 1200	1.0	1.2	0.3	12	green	1	9.283 257

1



1

Electronic multichannel microliter pipettes Eppendorf Xplorer® plus, variable

Eppendorf AG

The electronic pipettes Eppendorf Xplorer plus were specially designed for high professional standards to provide optimal support for you in your work, with a new intuitive operating concept and design based on the proven Eppendorf PhysioCare® Concept.

- Autodispense
- Manual pipetting, multi-aspirate, dilution, sequential pipetting, sequential dispensing, reverse pipetting
- Programming of multiple modes in a sequence
- Setting of fixed volumes
- Password protection
- History function
- Service interval warning

Capacity	Increments	Accuracy max. vol.	Precision max. vol.	Channels	Control button	PK	Cat. No.
µl	µl	(± R%)	(≤ CV%)		colour		
0.5 - 10	0.01	2.0	0.8	8	medium grey	1	9.283 187
5 - 100	0.1	0.8	0.25	8	yellow	1	9.283 189
15 - 300	0.2	0.6	0.25	8	orange	1	9.283 191
50 - 1200	1.0	1.2	0.3	8	green	1	9.283 193
0.5 - 10	0.01	2.0	0.8	12	medium grey	1	9.283 188
5 - 100	0.1	0.8	0.25	12	yellow	1	9.283 190
15 - 300	0.2	0.6	0.25	12	orange	1	9.283 192
50 - 1200	1.0	1.2	0.3	12	green	1	9.283 194

2



2

Pipette Leak Testing Unit (PLT unit)

BRAND

Improved process reliability with functional validation of air-displacement pipettes. The most frequent cause of inaccuracy in piston-operated pipettes is leakage. This arises from damage either to the seals, pistons or tip cones. Often not detectable by the naked eye, leaks lead to significant volume errors. The BRAND pipette leak tester (PLT unit) for air displacement pipettes finds even the smallest leaks within seconds.

- Limit values for the commercially available single- and multichannel pipettes in the volume range 1µl to 10ml are pre-programmed.
- Testing with and without tips
- Test results in seconds
- Patent pending

According to monitoring of measuring instruments, air-displacement pipettes must be checked at regular intervals and the results must be compared with the ISO 8655-2 error limits. However, a calibration certificate only reflects the results at the time of testing. The time between these calibrations is crucial, since leaks can occur at any time. Well over 80% of pipettes sent in for repair have leaks and are outside their volume tolerances, even if they don't drip.

While the PLT unit cannot replace regular gravimetric testing, daily pipette checks can provide a safeguard during the periods between calibrations. Even the smallest leaks are detected. Process reliability for the pipettes is thus significantly improved.

Items supplied:

PLT unit (Pipette Leak Testing Unit) including one adapter each for testing air-displacement pipettes with tip (mounted) and without tip, 2 plugs, 3 replacement PE filters for the pipette adapters, universal AC adapter, quality certificate and operating manual.

Type	PK	Cat. No.
Pipette Leak Testing Unit	1	4.007 886

Further accessories can be found in our online shop.

1 Positive displacement pipettes, Transferpettor

For easy, clean pipetting of problematic media.
Transferpettor operates by positive displacement, which makes it ideal for pipetting:

- Highly viscous media such as oils, resins and fats up to a viscosity of 140.000mm²/sec. (dependent on instrument size)
- Media with high vapour pressure up to 500mbar (Alcohols, ethers, hydrocarbons etc.)
- Media with a high density up to 13.6g/cm³ (e.g. mercury and sulphuric acid)
- Media that tend to foam (surfactant solutions).
- Working temperature range: 15°C to 40°C

Capillary tubes and tips can be used over and over again, since residual wetting is negligible and generally has no influence on the overall result. This leads to lower material costs and reduced waste.

But: In cases, where no contamination is permitted, e.g. with infectious or radioactive media, the Brand Transferpette® is recommended, an air displacement pipettor for comfortable working with disposable tips.

Items supplied: Transferpettor, DE-M marking, with quality certificate.



Single channel pipettes Transferpettor Fixed-volume

With pipette caps and seals.

BRAND

Capacity µl	Increments µl	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	Seal material	Cap material	PK	Cat. No.
1	-	4.0	4.0	-	glass	1	9.280 696
50	-	0.6	0.4	PTFE	glass	1	9.280 705
100	-	0.6	0.4	PTFE	glass	1	9.280 710
200	-	0.5	0.2	PTFE	glass	1	9.280 720

Single channel pipettes Transferpettor Digital-adjustable

BRAND

Capacity µl	Increments µl	Colour coding	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	Cap material	PK	Cat. No.
2.5 - 10	0.01	orange	1.0	0.8	glass*	1	9.280 602
5 - 25	0.1	2 x white	0.8	0.5	glass*	1	9.280 605
10 - 50	0.1	green	0.6	0.4	glass*	1	9.280 610
20 - 100	0.1	blue	0.6	0.4	glass*	1	9.280 620
100 - 500	1.0	green	0.5	0.2	PP**	1	9.280 724
200 - 1000	1.0	yellow	0.5	0.2	PP**	1	9.280 726
1000 - 5000	10.0	red	0.5	0.2	PP**	1	9.280 730
2000 - 10000	10.0	orange	0.5	0.2	PP**	1	9.280 732

* PTFE-Seals
**PE-Seals

2 3 Caps for single channel pipettes Transferpettor

BRAND

Capacity µl	Material	PK	Cat. No.
1, 2, 5	glass	100	9.280 800
10	glass	100	9.280 801
20	glass	100	9.280 802
25	glass	100	9.280 803
50	glass	100	9.280 805
100 / 200	glass	50	9.280 810
100 to 500	PP	10	9.280 741
200 to 1000	PP	10	9.280 742
1000 to 5000	PP	10	9.280 743
2000 to 10000	PP	10	9.280 745



4 Seals for pipettes Transferpettor

BRAND

Capacity µl	Material	PK	Cat. No.
20 / 25	PTFE	3	9.280 901
50	PTFE	3	9.280 903
100 / 200	PTFE	3	9.280 905
100 to 500	PE	10	9.280 751
200 to 1000	PE	10	9.280 752
1000 to 5000	PE	10	9.280 753
2000 to 10000	PE	10	9.280 755



Pipettes/Positive displacement pipettes

1



1 Stands for single channel pipettes Transferpettor

Transferpettor stations. For storage of 4 instruments up to 200 µl with accessories or 2 instruments from 0.5 to 10 ml with accessories.

BRAND

Type	PK	Cat. No.
For 2 pipettes with accessories	1	9.280 581
For 4 pipettes with accessories	1	9.280 850

2



2 Positive displacement micropipettes Acura® capillar 846

High performance positive displacement micropipettes with interchangeable glass capillary tube and ETFE tipped plunger. The soft shaped handle and smooth plunger activation provides for enhanced hand comfort while handling viscous liquids, foaming solutions or volatile solvents.

Socorex

Five models cover a range from 1 to 200 µL.

- Slim body shape, comfortable finger rest
- Smooth plunger activation
- Reliable, step-wise volume adjustment
- Colour codes matching on pipettes, plungers and capillaries
- Stainless steel, ETFE tipped plunger
- Three-year warranty

Capacity	Increments	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	Cap material	PK	Cat. No.
µl	µl					
1 - 5	1	2.0	1.2	ETFE	1	6.263 911
5 - 25	5	0.8	0.6	ETFE	1	6.263 912
10 - 50	10	0.7	0.4	ETFE	1	6.263 913
60 - 100	10	0.7	0.3	ETFE	1	6.263 914
100 - 200	25	0.7	0.3	ETFE	1	6.263 915

3



3 Accessories for Positive displacement micropipettes Acura® capillary 846

Socorex

Description	PK	Cat. No.
Spare glass capillary, white	200	6.308 832
Spare glass capillary, 2 x white	200	6.225 698
Spare glass capillary, green	200	6.307 233
Spare glass capillary, blue	200	6.803 126
Spare glass capillary, red	100	6.210 150
Spare plunger, steel	5	6.308 831
Spare plunger, white	5	6.304 882
Spare plunger, green	5	6.210 135
Spare plunger, blue	5	6.803 127
Spare plunger, red	5	6.320 887



All pipette tips made of PP are autoclavable.



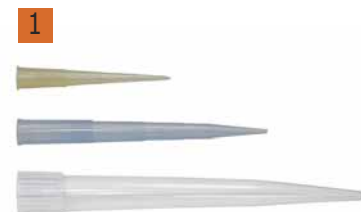
1 LLG-Labware pipette tips, economy 2.0, PP NEW

The new generation of LLG Labware Pipette tips economy.

Available in bulk quantities in bags or in easy-to-open boxes with color coded racks. Racked-tip boxes are delivered in a dispenser, which can be opened from two sides facilitating the use of the product on two work spaces.

Compatible with all common pipette brands. You can find the appropriate compatibility list on www.llg-labware.com in the Downloads section.

- Improved optical clarity and pipette fit
- Colored coded rack inserts for easy identification
- Graduated (5 and 10 ml tips without graduation)
- Autoclavable
- DNase and RNase free



Capacity µl	Colour	Package contents	PK	Cat. No.
0.1 ... 10	transparent	1000 tips in bag	1000	4.668 775
0.1 ... 10	transparent	10 x 96 tips in rack	960	4.668 776
1 ... 200	transparent	10 x 96 tips in rack	960	4.668 778
1 ... 200	yellow	1000 tips in bag	1000	4.668 777
1 ... 200	yellow	10 x 96 tips in rack	960	4.668 779
100 ... 1000	transparent	1000 tips in bag	1000	4.668 780
100 ... 1000	transparent	8 x 96 tips in rack	768	4.668 782
100 ... 1000	blue	1000 tips in bag	1000	4.668 781
100 ... 1000	blue	8 x 96 tips in rack	768	4.668 783
100 - 5000*	clear	1 bag of 250	250	9.409 097
100 - 5000**	clear	1 bag of 250	250	6.254 364
1000 - 10000	clear	1 bag of 100	100	9.409 098

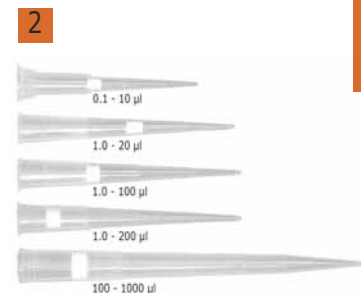
*for manual pipettors

**for electronic pipettors

2 LLG-Filter tips 2.0 Low Retention, PP NEW

The new generation of LLG Labware filter tips with low liquid retention. Available in easy-to-open boxes with color coded racks. Compatible with all common pipette brands. You can find the appropriate compatibility list on www.llg-labware.com in the Downloads section.

- Improved optical clarity and pipette fit
- Colored coded rack inserts for easy identification
- Graduated
- Sterile
- DNase and RNase free



Colour	Capacity µl	Package contents	PK	Cat. No.
Clear	0,1 ... 10	10 x 96	960	4.668 784
Clear	0,1 ... 10 *	10 x 96	960	4.668 785
Clear	1 ... 20	10 x 96	960	4.668 786
Clear	1 ... 100	10 x 96	960	4.668 787
Clear	1 ... 200	10 x 96	960	4.668 788
Clear	100 ... 1000	8 x 96	768	4.668 789

* Tip XL

3 LLG-Pipette Tips *ULTRALOW*, bulk, non-sterile NEW

All LLG-Pipette tips *ULTRALOW* feature an extremely low liquid retention compared to standard tips due to their hydrophobic inner side. This enables accurate, more complete and more precise dispensing of fluids, even of viscous ones. LLG-Pipette tips *ULTRALOW* is compatible with all major pipette brands such as LLG-proMPL, Gilson, Eppendorf, Brand, Sartorius, Socorex and others. You can find the appropriate compatibility list on www.llg-labware.com in the Downloads section.

- With easy visible volume graduations
- Universal fit tips, compatible with common pipette brands



Capacity µl	PK	Cat. No.
10	960	6.291 866
200	960	6.291 867
1250	960	6.291 868

1



1 LLG-Pipette tip Refill system *ULTRALOW*



The new LLG-Pipette tip Refill system *ULTRALOW* consists of racked tips and easy-to-use, environmentally friendly pipette tip refills.

All LLG-Pipette tips *ULTRALOW* feature an extremely low liquid retention compared to standard tips due to their hydrophobic inner side. This enables accurate, more complete and more precise dispensing of fluids, even of viscous ones!

LLG refills are easy to use allowing a quick filling of empty racks. Its packaging is made out of recyclable paperback which reduces the overall waste production and thus is absolutely environmentally friendly!

LLG-Pipette tip Refill system *ULTRALOW* is compatible with all major pipette brands such as LLG-proMLP, Gilson, Eppendorf, Brand, Sartorius, Socorex and others. You can find the appropriate compatibility list on www.llg-labware.com in the Downloads section.

Features:

- Ultralow retention tips with easy visible volume graduations
- Universal fit tips, compatible with common pipette brands
- Easy-to-use lift-and-load refill system
- Refill inserts are imprinted with volume and LOT No. for easy identification
- 50 % less storage space than full racks
- 70 % reduction in total materials compared to other refill systems
- environmentally friendly and recyclable packing materials made out of paperboard
- Rack footprint is compatible with automation and facilitates stacking, autoclavable

2



2 LLG-Pipette Tips *ULTRALOW*, Refill System

Capacity µl	Package contents	PK	Cat. No.
10	10 x 96	960	6.283 565
200	10 x 96	960	6.283 568
1250	8 x 96	768	6.283 570

3



3 Racks for LLG-Pipette Tips *ULTRALOW*, empty

Description	PK	Cat. No.
for 10 µl XL and 200 µl LLG- Pipette Tips <i>ULTRALOW</i> Refill System	5	6.283 566
for 1250 µl LLG- Pipette Tips <i>ULTRALOW</i> Refill System	5	6.283 571

4



4 LLG-Pipette Tips *ULTRALOW*, Rack

Capacity µl	Package contents	PK	Cat. No.
10	10 racks of 96 tips	960	6.283 567
200	10 racks of 96 tips	960	6.283 569
1250	8 racks of 96 tips	768	6.283 572

1 Pipette tips, non-sterile



- Precise design and manufacture ensures highest quality tips.
- Moulded with high quality polypropylene
 - Firm fit on pipettor cones
 - Optimum handling due to straight shape
 - Special ionization process guarantees dust free tip production
 - Excellent transparency due to optimum surface quality
 - Minimum fluid retention due to controlled raw material quality
 - Excellent volumetric accuracy due to precisely moulded tip orifices
 - Most practical tip volumes
 - Non-sterile
 - Autoclavable

- A:** all pipettes, ratiopetta®
- B:** Gilson Pipetman®/Neo®
- C:** Oxford®
- D:** Dr. Lange®
- E:** Thermo-Scientific Finnpiquette® F1/F2
- F:** Biohit® Proline
- G:** Biohit mLINE®
- H:** Brand®
- I:** Eppendorf Reference®
- J:** Socorex Calibra®

Ratiolab



9.409 140

Fits	Colour	Capacity µl	Package contents	PK	Cat. No.
B	Crystal	0,1 - 10	1 bag of 1000	1000	9.409 130
A	Crystal	0,5 - 20	1 bag of 1000	1000	9.409 129
A	Yellow	1 - 200	1 bag of 1000	1000	9.409 138
A	Transparent	1 - 200	1 bag of 1000	1000	6.070 440
A	Yellow	1 - 250	1 bag of 1000	1000	9.409 128
A	Blue	100 - 1200	1 bag of 1000	1000	9.409 139
F, I	Transparent	1000 - 5000	1 bag of 300	300	6.308 744
D, E	Transparent	1000 - 5000	1 collapsible box of 75	75	9.409 140

3 Filter tips, HDPE

Pipette tips with special filters, to effectively prevent the inner pipettor shaft from contamination with aerosols and liquids to be drawn into the pipettor.

Ratiolab

- Sterile
- Free of DNA, DNase, pyrogens and ATP
- Pipette tips and aerosol filters made of ultra-hydrophobic HDPE
- Minimized retention due to special surface treatment
- Perfect and close fit on all major pipettor brands
- Packed in plastic racks with hinge lids
- *aeroject® ultra with extended length for operation with narrow vessels and reduced risk of cross-contamination

Fits pipettors: ratiopetta®, Biohit® Proline, Biohit® m-Line, Brand® Transferpette®, CappAero, Eppendorf® Research®, Eppendorf® Reference®, Finnpiquette® Digital, Finnpiquette® Focus, Gilson® Pipetman®, Gilson® Ultra, Labmate® and Socorex® Calibra, Labpipetten



Capacity µl	Package contents	PK	Cat. No.
0,1 - 10*	10 racks of 96	960	6.262 343
1 - 20	10 racks of 96	960	6.262 867
1 - 100	10 racks of 96	960	6.262 868
1 - 200	10 racks of 96	960	6.262 869
100 - 1000	10 racks of 60	600	6.262 275



1 2 Pipette tips and filter tips



Pipette tips and filter tips are manufactured by BRAND in a cleanroom under the most modern production conditions, and are automatically rack packed and packaged to ensure that the tips are of consistently high quality.

Quality features:

- High-purity polypropylene, free from DiHEMA and oleamide
- Manufactured without lubricants
- Graduation for a quick volume check
- All tips and filter tips up to 1000 µl are free of DNA (<40 fg), RNase (<8.6 fg), endotoxins (<1 pg) and ATP (<1 fg)
- All sterile products in BIO-CERT® Quality: sterile acc. ISO 11 137 and AAMI guidelines, a SAL of 10⁻⁶ is obtained.
- Autoclavable at 121°C (2 bar), acc. DIN EN 285
- Environmentally friendly packaging systems
- Pipette and filter tips from BRAND are tested for BRAND pipettes and most of the pipette types of Gilson®, Thermo Fisher Scientific FinnpiPETTE®, Eppendorf® and Biohit.

The 5 ml tip is exclusively tested for BRAND pipettes and Thermo Fisher Scientific FinnpiPETTE®. The 10 ml tip is suitable for BRAND, Eppendorf® and Gilson®.

Ultra Low Retention-tips

The surfaces of the Ultra Low Retention tips are produced through a physicochemical process.

Filter Tips

Non-self-sealing filter tips from BRAND have a PE filter that is free from chemical additives. Permeability is controlled by the combination of pore size and filter length, so that no aerosols can reach the pipette shaft.

Bulk packed in reclosable bags.

The batch number is printed on every bag.

TipBox, sterile and non sterile, BIO-CERT®

PP. Two different sizes. Stackable and repeatedly autoclavable at 121 °C (2 bar), acc. DIN EN 285.

TipStack™, non sterile and sterile, BIO-CERT®

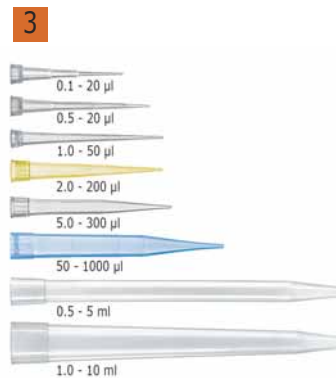
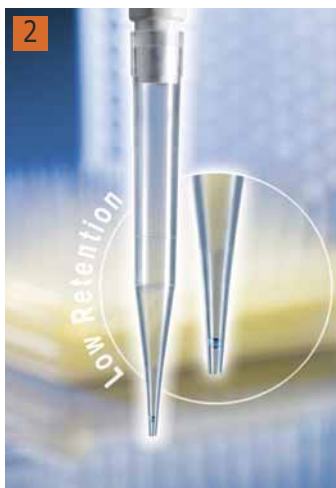
A tip tower containing 5 filled tip-trays and a TipBox constitute the new, space-saving refill system for 20 µl, 200 µl and 1000 µl tips.

TipRack, sterile and non sterile, BIO-CERT®

Refill unit for TipBox. Compared to the filled TipBoxes, the amount of waste with the new refill units is reduced by over 20%.

TipBox 5/10 ml, non sterile

The 5 ml and 10 ml tips are only available as a racked tip version in these specially corresponding TipBox.



3 Pipette tips, bulk, in reclosable bags, non-sterile

All tips and filter tips are produced under supervised state-of-the-art Cleanroom conditions and automatically shrink-wrapped in reclosable bags and packaged in cardboard boxes. The batch number is printed on every bag.

BRAND

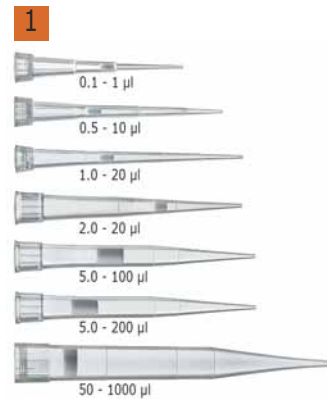
Colour	Capacity µl	Package contents	PK	Cat. No.
natural	0,1 - 20	2 bags of 1000	2000	9.409 669
natural	0,5 - 20	2 bags of 1000	2000	9.409 670
natural	1 - 50	2 bags of 1000	2000	9.409 671
yellow	2 - 200	1 bag of 1000	1000	9.409 672
natural	5 - 300	1 bag of 1000	1000	9.409 673
blue	50 - 1000	2 bags of 500	1000	9.409 674
natural	500 - 5000	1 bag 200	200	9.409 223
natural	1000 - 10000	2 bags of 100	200	9.409 191
natural	0,1 - 20	10 bags of 1000 (XXL)	10000	9.409 675
natural	0,5 - 20	10 bags of 1000 (XXL)	10000	9.409 676
natural	1- 50	10 bags of 1000 (XXL)	10000	9.409 677
yellow	2 - 200	10 bags of 1000 (XXL)	10000	9.409 678
natural	5 - 300	10 bags of 1000 (XXL)	10000	9.409 679
blue	50 - 1000	10 bags of 500 (XXL)	5000	9.409 680
natural	500 - 5000	5 bags of 200 (XXL)	1000	9.409 199
natural	1000 - 10000	10 bags of 100 (XXL)	1000	9.409 192

1 Filter pipette tips, in reclosable bags, non-sterile

All tips and filter tips are produced under supervised state-of-the-art Cleanroom conditions and automatically shrink-wrapped in reclosable bags and packaged in cardboard boxes. The batch number is printed on every bag.

BRAND

Capacity	Package contents	PK	Cat. No.
μl			
0.1 - 1	1 bag of 960	960	9.409 681
0.5 - 10	1 bag of 960	960	9.409 682
1.0 - 20	1 bag of 960	960	9.409 683
2 - 20	1 bag of 960	960	9.409 684
5 - 100	1 bag of 960	960	9.409 685
5 - 200	1 bag of 960	960	9.409 686
50 - 1000	1 bag of 960	960	9.409 687



2 Pipette tips, racked in TipRack, non-sterile

For TipBox. Refill unit, protected in an environmentally compatible packaging of recyclable PET.

BRAND

Capacity	Package contents	PK	Cat. No.
μl			
0.1 - 20	10 TipRacks of 96	960	9.409 757
0.5 - 20	10 TipRacks of 96	960	9.409 758
1 - 50	10 TipRacks of 96	960	9.409 759
2 - 200	10 TipRacks of 96	960	9.409 760
5 - 300	10 TipRacks of 96	960	9.409 761
50 - 1000	10 TipRacks of 96	960	9.409 762



3 Filter tips racked in TipRack, non-sterile

For TipBox. Refill unit, protected in an environmentally compatible packaging of recyclable PET.

BRAND

Capacity	Package contents	PK	Cat. No.
μl			
0.1 - 1	10 TipRacks of 96	960	9.409 769
0.5 - 10	10 TipRacks of 96	960	9.409 770
1.0 - 20	10 TipRacks of 96	960	9.409 771
2 - 20	10 TipRacks of 96	960	9.409 772
5 - 100	10 TipRacks of 96	960	9.409 773
5 - 200	10 TipRacks of 96	960	9.409 774
50 - 1000	10 TipRacks of 96	960	9.409 775



4 Pipette tips racked in TipRack, sterile, BIO-CERT®

For TipBox. Refill unit, protected in an environmentally compatible packaging of recyclable PET. Sterile TipRacks are supplied with a transfer aid so that the rack can be put into a previously autoclaved box without hand contact.

BRAND

Capacity	Package contents	PK	Cat. No.
μl			
0.1 - 20	10 TipRacks à 96	960	9.409 763
0.5 - 20	10 TipRacks à 96	960	9.409 764
1 - 50	10 TipRacks à 96	960	9.409 765
2 - 200	10 TipRacks à 96	960	9.409 766
5 - 300	10 TipRacks à 96	960	9.409 767
50 - 1000	10 TipRacks à 96	960	9.409 768



5 Filter tips racked in TipRack, sterile, BIO-CERT®

For TipBox. Refill unit, protected in an environmentally compatible packaging of recyclable PET. Sterile TipRacks are supplied with a transfer aid so that the rack can be put into a previously autoclaved box without hand contact.

BRAND

Capacity	Package contents	PK	Cat. No.
μl			
0.1 - 1	10 TipRacks à 96	960	9.409 776
0.5 - 10	10 TipRacks à 96	960	9.409 777
1.0 - 20	10 TipRacks à 96	960	9.409 778
2 - 20	10 TipRacks à 96	960	9.409 779
5 - 100	10 TipRacks à 96	960	9.409 780
5 - 200	10 TipRacks à 96	960	9.409 781
50 - 1000	10 TipRacks à 96	960	9.409 782



1

1 2 Filter tips, racked in TipBox, PP, non-sterile

PP. With hinged lid/push-on lid. Simply rotate 180° to change closure method.
Usable with a partially loaded multichannel pipette. Two different sizes.
Stackable and repeatedly autoclavable at 121 °C (2 bar), acc. DIN EN 285.

BRAND

Description	Capacity	Package contents	PK	Cat. No.
		µl		
Standard	0.1 - 1	5 boxes of 96	480	9.409 700
Standard	0.5 - 10	5 boxes of 96	480	9.409 701
Standard	1.0 - 20	5 boxes of 96	480	9.409 702
Standard	2 - 20	5 boxes of 96	480	9.409 703
Standard	5 - 100	5 boxes of 96	480	9.409 704
Standard	5 - 200	5 boxes of 96	480	9.409 705
Standard	50 - 1000	5 boxes of 96	480	9.409 706
Low Retention	0.1 - 1	5 boxes of 96	480	9.409 707
Low Retention	0.5 - 10	5 boxes of 96	480	9.409 708
Low Retention	1.0 - 20	5 boxes of 96	480	9.409 709
Low Retention	2 - 20	5 boxes of 96	480	9.409 712
Low Retention	5 - 100	5 boxes of 96	480	9.409 713
Low Retention	5 - 200	5 boxes of 96	480	9.409 714
Low Retention	50 - 1000	5 boxes of 96	480	9.409 715

2

3

3 Pipette tips, racked in TipBox, PP, non-sterile

PP. With hinged lid/push-on lid. Simply rotate 180° to change closure method.
Usable with a partially loaded multichannel pipette. Two different sizes.
Stackable and repeatedly autoclavable at 121 °C (2 bar), acc. DIN EN 285.

BRAND

Description	Capacity	Package contents	PK	Cat. No.
		µl		
Standard	0.1 - 20	5 Boxes of 96	480	9.409 688
Standard	0.5 - 20	5 Boxes of 96	480	9.409 689
Standard	1 - 50	5 Boxes of 96	480	9.409 690
Standard	2 - 200	5 Boxes of 96	480	9.409 691
Standard	5 - 300	5 Boxes of 96	480	9.409 692
Standard	50 - 1000	5 Boxes of 96	480	9.409 693
Low Retention	0.1 - 20	5 Boxes of 96	480	9.409 694
Low Retention	0.5 - 20	5 Boxes of 96	480	9.409 695
Low Retention	1 - 50	5 Boxes of 96	480	9.409 696
Low Retention	2 - 200	5 Boxes of 96	480	9.409 697
Low Retention	5 - 300	5 Boxes of 96	480	9.409 698
Low Retention	50 - 1000	5 Boxes of 96	480	9.409 699

4

4 Pipette tips, racked in Tip-Box, sterile, Bio-Cert®

PP. With hinged lid/push-on lid. Simply rotate 180° to change closure method.
Usable with a partially loaded multichannel pipette. Two different sizes.
Stackable and repeatedly autoclavable at 121 °C (2 bar), acc. DIN EN 285.

BRAND

Description	Capacity	Package contents	PK	Cat. No.
		µl		
Standard	0.1 - 20	10 boxes of 96	960	9.409 716
Standard	0.5 - 20	10 boxes of 96	960	9.409 717
Standard	1 - 50	10 boxes of 96	960	9.409 718
Standard	2 - 200	10 boxes of 96	960	9.409 719
Standard	5 - 300	10 boxes of 96	960	9.409 721
Standard	50 - 1000	10 boxes of 96	960	9.409 722
Low Retention	0.1 - 20	10 boxes of 96	960	9.409 730
Low Retention	0.5 - 20	10 boxes of 96	960	9.409 733
Low Retention	1 - 50	10 boxes of 96	960	9.409 734
Low Retention	2 - 200	10 boxes of 96	960	9.409 735
Low Retention	5 - 300	10 boxes of 96	960	9.409 736
Low Retention	50 - 1000	10 boxes of 96	960	9.409 737

1 Filter tips, racked in TipBox, sterile, Bio-Cert®

PP. With hinged lid/push-on lid. Simply rotate 180° to change closure method.
Usable with a partially loaded multichannel pipette. Two different sizes.
Stackable and repeatedly autoclavable at 121 °C (2 bar), acc. DIN EN 285.

BRAND

Description	Capacity	Package contents	PK	Cat. No.
	µl			
Standard	0.1 - 1	10 boxes of 96	960	9.409 723
Standard	0.5 - 10	10 boxes of 96	960	9.409 724
Standard	1.0 - 20	10 boxes of 96	960	9.409 725
Standard	2 - 20	10 boxes of 96	960	9.409 726
Standard	5 - 100	10 boxes of 96	960	9.409 727
Standard	5 - 200	10 boxes of 96	960	9.409 728
Standard	50 - 1000	10 boxes of 96	960	9.409 729
Low Retention	0.1 - 1	10 boxes of 96	960	9.409 738
Low Retention	0.5 - 10	10 boxes of 96	960	9.409 739
Low Retention	1.0 - 20	10 boxes of 96	960	9.409 740
Low Retention	2 - 20	10 boxes of 96	960	9.409 741
Low Retention	5 - 100	10 boxes of 96	960	9.409 742
Low Retention	5 - 200	10 boxes of 96	960	9.409 743
Low Retention	50 - 1000	10 boxes of 96	960	9.409 744

**2 Pipette tips refill TipStack™, non-sterile**

Space-saving, environmentally compatible refill system for TipBox.
5 racks, each having 96 tips incl. 1 TipBox.
Each packaging unit contains 2 TipStacks.

BRAND

Description	Capacity	Package contents	PK	Cat. No.
	µl			
Standard	0.5 - 20	2 x 5 TipRacks à 96	960	9.409 745
Standard	2 - 200	2 x 5 TipRacks à 96	960	9.409 746
Standard	50 - 1000	2 x 5 TipRacks à 96	960	9.409 747
Low Retention	0.5 - 20	2 x 5 TipRacks à 96	960	9.409 751
Low Retention	2 - 200	2 x 5 TipRacks à 96	960	9.409 752
Low Retention	50 - 1000	2 x 5 TipRacks à 96	960	9.409 753

**3 Pipette tips refill TipStack™, sterile, BIO-CERT®**

Space-saving, environmentally compatible refill system for TipBox.
5 racks, each having 96 tips incl. 1 TipBox. Sterile TipStacks are supplied with a transfer aid so that the rack can be put into a previously autoclaved box without hand contact.
Each packaging unit contains 2 TipStacks.

BRAND

Description	Capacity	Package contents	PK	Cat. No.
	µl			
Standard	0.5 - 20	2 x 5 racks of 96	960	9.409 748
Standard	2 - 200	2 x 5 racks of 96	960	9.409 749
Standard	50 - 1000	2 x 5 racks of 96	960	9.409 750
Low Retention	0.5 - 20	2 x 5 racks of 96	960	9.409 754
Low Retention	2 - 200	2 x 5 racks of 96	960	9.409 755
Low Retention	50 - 1000	2 x 5 racks of 96	960	9.409 756

**4 TipBox 5/10 ml, non-sterile**

The 5 ml and 10 ml tips are only available as a racked tip version in these specially corresponding TipBox.

BRAND

Description	Volume	Package contents	PK	Cat. No.
	ml			
Standard	0.5 - 5	1 TipBox of 28	28	9.408 905
Standard	1 - 10	1 TipBox of 18	18	9.408 909

**5 TipBox, PP, with Tip-Tray, empty**

PP. With hinged lid/push-on lid. Two different sizes. Stackable and repeatedly autoclavable at 121 °C (2 bar), acc. DIN EN 285. This box can be refilled with TipRack (non-sterile) and TipStack (sterile).

BRAND

Description	Capacity	PK	Cat. No.
	µl		
TipBox, empty	up to 50	1	9.409 783
TipBox, empty	up to 200	1	9.409 784
TipBox, empty	up to 300	1	9.409 785
TipBox, empty	up to 1000	1	9.409 786



8. Liquid Handling

Pipettes/Pipette tips

1

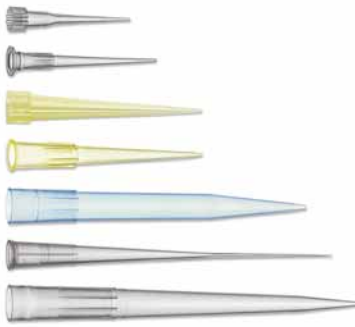
1 Pipette tips Qualitix®

Socorex



The Socorex Qualitix® are exclusively made from high grade, virgin, metal-free polypropylene. Precision injection moulding care for air-tight fit. Stringent quality procedures ensure lot by lot consistency.

- Wide selection, superior quality
- High density filter prevents aerosol contamination
- DNase, RNase, ATP and pyrogen-free tips
- Compatibility with various pipette brands



Pipette tips Qualitix®, natural, thin, 10 µl

Socorex

Description	Capacity	Length	Package contents	PK	Cat. No.
	µl	mm			
Ultra-microtips, graduated, autoclavable	10	31.4	1 bag of 1000	1000	6.289 204 2
Ultra-microtips, graduated, autoclavable	10	31.4	12 racks of 96	1152	6.289 205
Ultra-microtips, graduated, sterile	10	31.4	12 racks of 96	1152	6.289 208
Ultra-microtips, graduated, low protein binding, autoclavable	10	31.4	12 racks of 96	1152	6.289 210 3
Ultra-microtips, graduated, low protein binding, sterile	10	31.4	12 racks of 96	1152	6.289 211
Microtips, long, autoclavable	10	38.1	1 bag of 1000	1000	6.289 212 4
Microtips, long, autoclavable	10	38.1	10 racks of 96	960	6.289 213
Microtips, long, low protein binding, autoclavable	10	38.1	10 racks of 96	960	6.289 215 5
Microtips, long, low protein binding, sterile	10	38.1	10 racks of 96	960	6.289 216
Natural microtip for gel, autoclavable	10	70.9	4 racks of 204	816	9.282 104

2

3

4

5



6.289 204



6.289 210



6.289 212



6.289 215

Pipette tips Qualitix®, oblique graduated, 200 µl

Socorex

Description	Capacity	Length	Package contents	PK	Cat. No.
	µl	mm			
Natural universal tips, autoclavable	200	49.6	1 bag of 1000	1000	6.289 219 6
Natural universal tips, autoclavable	200	49.6	10 racks of 96	960	6.289 220
Natural universal tips, sterile	200	49.6	10 racks of 96	960	6.289 223
Natural ultra-microtips, low protein binding,	200	49.6	10 racks of 96	960	6.289 225 7
Natural universal tips, low protein binding, sterile	200	49.6	10 racks of 96	960	6.289 226
Yellow tips, autoclavable	200	49.6	1 bag of 1000	1000	6.289 227 8
Yellow tips, autoclavable	200	49.6	10 racks of 96	960	6.289 228
Yellow tips, sterile	200	49.6	10 racks of 96	960	6.289 229
Natural capillary tips for gel, autoclavable	200	82.5	6 racks of 96	576	6.289 230 9
Yellow tips for Calibra® pipettes, autoclavable	200	49.6	2 bags of 500	1000	9.282 114
Yellow tips for Calibra® pipettes, autoclavable	200	49.6	10 racks of 96	960	9.282 115

6

7

8

9



6.289 219



6.289 225



6.289 227



6.289 230

Pipette tips Qualitix®, 350 µl

Socorex

Description	Capacity	Length	Package contents	PK	Cat. No.
	µl	mm			
Pipette tips, natural	350	58.8	1 bag of 1000	1000	9.282 116
Pipette tips, natural	350	58.8	10 racks of 96	960	9.282 117

Pipette tips Qualitix®, 1000 µl

Socorex

Description	Capacity	Length	Package contents	PK	Cat. No.
	µl	mm			
Natural universal tips, thin, autoclavable	1000	88.9	1 bag of 1000	1000	6.289 232 1
Natural universal tips, thin, autoclavable	1000	88.9	6 racks of 96	576	6.289 233
Natural universal tips, thin, sterile	1000	88.9	6 racks of 96	576	6.289 236
Natural ultra-microtips, thin, low protein binding, autoclavable	1000	88.9	6 racks of 96	576	6.289 238 2
Natural universal tips, thin, low protein binding, sterile	1000	88.9	6 racks of 96	576	6.289 239
Natural tips, oblique, autoclavable	1000	75.9	1 bag of 1000	1000	6.289 243
Natural tips, oblique, graduated, autoclavable	1000	75.9	6 racks of 96	576	6.289 244
Blue universal tips	1000	72.0	4 bags of 250	1000	9.282 122
Blue universal tips	1000	72.0	8 racks of 60	480	9.282 123
Blue tips, oblique, autoclavable	1000	75.9	1 bag of 1000	1000	6.289 240 3
Blue tips, oblique, autoclavable	1000	75.9	6 racks of 96	576	6.289 241
Blue tips, oblique, sterile	1000	75.9	6 racks of 96	576	6.289 242



Pipette tips Qualitix®, natural, autoclavable

Socorex

Description	Capacity	Length	Package contents	PK	Cat. No.
	ml	mm			
Macro tips	2	115.5	2 bags of 250	500	9.411 501
Macro tips	2	115.5	30 bags of 250	7500	6.289 245
Macro tips, graduated	5	123.2	2 bags of 250	500	9.411 449 5
Macro tips, graduated	5	123.2	25 bags of 250	6250	6.289 246
Macro tips, graduated	5	123.2	2 racks of 50	100	6.224 893
Macro tips	10	150.0	3 bags of 100	300	9.411 502 4
Macro tips	10	150.0	40 bags of 100	4000	6.289 247



6 Refill system Tipfill, autoclavable

Socorex



Description	Capacity	Package contents	PK	Cat. No.
	µl			
Ultra-microtips, natural, thin, graduated	10	13 inserts of 96	1248	6.289 206
Universal-tips, natural, oblique, graduated	200	10 inserts of 96	960	6.289 221
Universal-tips, natural, thin	1000	5 inserts of 96	480	6.289 234
Empty racks for refill system Tipfill	10 / 200		10	6.289 207
Empty racks for refill system Tipfill	1000		6	6.289 235

Filter tips Qualitix®, natural, sterile

Socorex

Description	Capacity	Length	Package contents	PK	Cat. No.
	µl	mm			
Ultra microtips, thin, graduated	10	31.4	12 racks of 96	1152	6.289 209 7
Microtips, long, thin	10	38.1	10 racks of 96	960	6.289 214 8
Tips, oblique	20	49.6	10 racks of 96	960	6.289 217 9
Tips, oblique	100	49.6	10 racks of 96	960	6.289 218
Universal tips, oblique	200	52.1	10 racks of 96	960	6.289 224
Tips, extra long, thin	200	83.8	6 racks of 96	576	6.289 231 10
Universal tips, thin	1000	88.9	6 racks of 96	576	6.289 237



1


1 Pipette tips Optifit


Sartorius Lab Instruments

Optifit tips are designed for best possible fitting and sealing to secure the highest possible accuracy and precision. These pipette tips enable ergonomic and light tip attachment by being compatible with the Optiload feature in Sartorius Picus® NxT, Picus®, eLINE®, mLINE® and Proline® Plus pipettes. While Optifit Tip trays are colour coded for easy matching with a corresponding, colour coded Sartorius pipette, they do also match with most other pipettes due to their universal design. Optifit tips are manufactured in an ISO 8 certified cleanroom environment and are available in various packaging types.

Description	Capacity µl	Length mm	Package contents	PK	Cat. No.
non-sterile	100 - 5000	150,0	1 rack of 50	50	6.206 247
pre-sterilised	100 - 5000	150,0	1 rack of 50	50	6.238 066
non-sterile*	0,5 - 10	242,0	1 box of 100	100	6.205 144
non-sterile	0,5 - 200	51,0	10 racks of 96	960	6.902 461
non-sterile	50 - 1200	71,5	10 racks of 96	960	6.204 651
pre-sterilised	50 - 1200	71,5	10 racks of 96	960	6.251 705
non-sterile	50 - 1200	71,5	Refill Pack, 10 racks of 96	960	6.224 347
pre-sterilised	50 - 1200	71,5	Refill Pack, 10 racks of 96	960	7.658 803
non-sterile	10 - 1000	71,5	10 racks of 96	960	6.226 809
pre-sterilised	10 - 1000	71,5	10 racks of 96	960	6.234 568
non-sterile	10 - 1000	71,5	10 racks of 96	960	6.226 833
pre-sterilised	10 - 1000	71,5	Refill Pack, 10 racks of 96	960	6.259 767
pre-sterilised	10 - 1000	68,5	10 racks of 96	960	6.233 869
non-sterile	50 - 1200	90,0	10 racks of 96	960	6.206 521
non-sterile	5 - 350	54,0	10 racks of 96	960	6.225 217
pre-sterilised	5 - 350	54,0	10 racks of 96	960	6.234 567
non-sterile	5 - 350	54,0	Refill Tower, 10 racks of 96	960	6.239 400
non-sterile	0,1 - 10	31,5	10 racks of 96	960	6.241 795
pre-sterilised	0,1 - 10	31,5	10 racks of 96	960	6.238 320
non-sterile	0,1 - 10	31,5	Refill Tower, 10 racks of 96	960	7.970 516
pre-sterilised	0,1 - 10	31,5	Refill Pack, 20 racks of 96	1920	7.970 541
pre-sterilised	0,5 - 200	51,0	10 racks of 96	960	6.238 319
non-sterile	0,5 - 200	51,0	Refill Tower, 10 racks of 96	960	6.235 565

* Extra long Tip for MidiPlus

2


2 Filter Tips SafetySpace™

Sartorius Lab Instruments

SafetySpace™ Filter Tips leave more space between the sample and the filter than conventional filter tips. This allows pipetting any type of liquid or using any pipetting technique without the risk of the precious sample absorbing into the filter. In effect, this secures 100% sample recovery and thus greater accuracy. Particularly suitable for pipetting foaming liquids such as buffers and proteins, pipetting solvents, multiple dispensing functions of electronic pipettes, reverse pipetting. Certified DNase, RNase and endotoxin free.

Capacity µl	Description	Package contents	Length mm	PK	Cat. No.
0,1 - 10	pre-sterilised	10 racks of 96	31.5	960	6.230 410
0,1 - 10 Extended*	pre-sterilised	10 racks of 96	46	960	6.901 776
0,5 - 20	pre-sterilised	10 racks of 96	51	960	6.227 887
2 - 120	pre-sterilised	10 racks of 96	51	960	6.240 886
5 - 200	pre-sterilised	10 racks of 96	52.5	960	6.233 695
5 - 300	pre-sterilised	10 racks of 96	52.5	960	6.230 069
50 - 1000	pre-sterilised	10 racks of 96	78	960	6.232 435
50 - 1200	pre-sterilised	10 racks of 96	90	960	6.228 053

*with regular air gap



1 Optifit Tips in FlexiBulk Pack

The tips in FlexiBulk packs are of the same high quality as the other Sartorius Optifit Tips available in tip racks and refill packages. Optifit Tips provide the following advantages: *Sartorius Lab Instruments*

- Perfect fit and seal with Sartorius pipettes to ensure the highest possible accuracy and precision
- Ergonomic and light tip attachment and ejection enabled by the Optoload feature in Sartorius Picus® NXT, Picus®, eLINE®, mLINE® and Proline® Plus pipettes
- Compatibility with most other pipette brands
- Materials, including the FlexiBulk PET pack, 100% suitable to be used as energy waste
- Compliance with ISO 9001, ISO 14001 and ISO 13485 quality standards



Description	Capacity	Length	Pack size	PK	Cat. No.
	µl	mm			
Free of RNase, DNase and endotoxins	0.5 - 200	51	1 box of 960	960	7.661 472
Free of RNase, DNase and endotoxins	5 - 350	54	1 box of 960	960	6.288 468
Free of RNase, DNase and endotoxins	10 - 1000	71,5	1 box of 480	480	6.269 234
Free of RNase, DNase and endotoxins	50 - 1200	71,5	1 box of 480	480	6.272 394
non-sterile	0.1 - 10	31,5	1 box of 1000	1000	6.225 481
non-sterile	100 - 5000	150,0	1 box of 100	100	7.607 378
non-sterile	100 - 5000	150,0	1 box of 1000	1000	6.203 851
non-sterile	1000 - 10000	161,0	1 box of 250	250	6.251 309

2 Pipette tips Finntip 10

This tip is specially designed for pipetting micro-sized drops. It is ideal for use with micro volume Finnpiettes. *Thermo Scientific*

Description	Capacity	Package contents	PK	Cat. No.
	µl			
non sterile	0.2 - 10	1 bag of 1000	1000	6.080 908
non sterile	0.2 - 10	10 racks of 96	960	6.084 681
sterile	0.2 - 10	10 racks of 96	960	6.224 231
non sterile	0.2 - 10	4 racks of 192 + 10 refill packs of 192	2688	6.228 718
non sterile	0.2 - 10	20 refill packs of 196	3840	6.228 719



3 Pipette tips Finntip 50

For use with 16-channel pipettes. Will also fit micro volume single channel pipettes, volume 50 µl length 43 mm. *Thermo Scientific*

Description	Capacity	Package contents	PK	Cat. No.
	µl			
non sterile	0.5 - 50	1 bag of 1000	1000	6.301 604
non sterile	0.5 - 50	10 racks of 384	3840	6.301 538
sterile	0.5 - 50	10 racks of 384	3840	9.282 501



4 Pipette tips Finntip 250 Universal

This quality product is ideal for single channel and multichannel Finnpiettes. It was also designed to be used with pipettes from other manufacturers. Finntip universals are also available in refill packs. *Thermo Scientific*

Description	Capacity	Package contents	PK	Cat. No.
	µl			
non sterile	0.5 - 250	1 box of 500	500	6.070 424
non sterile	0.5 - 250	1 bag of 1000	1000	6.092 728
non sterile	0.5 - 250	1 bag of 20,000	20000	6.228 715
non sterile	0.5 - 250	10 racks of 96	960	6.082 633
sterile	0.5 - 250	10 racks of 96	960	6.510 864
non sterile	0.5 - 250	4 racks of 96 + 10 refill packs of 96	1344	6.228 716
non sterile	0.5 - 250	20 refill packs of 96	1920	6.803 185



1



1 Pipette tips Finntip 300

These tips were specially designed for the FinnpiPETTE multichannels (reverse pipetting is possible with the 300µl). The Finntip 300µl is also suitable for single channel pipettes in the 5-300µl range. The packaging options include refill packs.

Thermo Scientific

Description	Capacity µl	Package contents	PK	Cat. No.
non sterile	5 - 300	1000/Bag	1000	6.057 011
non sterile	5 - 300	20.000/Bulk	20000	6.224 235
non sterile	5 - 300	10x96/Rack	960	6.056 947
sterile	5 - 300	10x96/Rack	960	6.084 976
non sterile	5 - 300	10x192/Refill	1920	6.204 184

Further models can be found in our online shop.

2



2 Pipette tips Finntip Flex

The Thermo Scientific Finntip Flex system offers flexible, soft and sophisticated high-end tips for discerning users. Finntip Flex system consisting new-generation tips and easy-to-use operation rack and space-saving refill kit. All elements in the system have been designed to fulfill the most demanding requirements for ergonomics and flexibility in pipetting tasks for today's fast-paced laboratories.

- Low attachment and ejection forces
- High precision molding with virgin polypropylene
- Smooth surface for low liquid retention
- Non-slip rack with hinged cover
- Easy to use and economical refill system

3



3 Pipette tips Finntip Flex 10

Thermo Scientific

Description	Capacity µl	Package contents	PK	Cat. No.
non sterile	0.2 - 10	1 bag of 1000	1000	9.282 510
non sterile	0.2 - 10	10 racks of 96	960	9.282 511
sterile	0.2 - 10	10 racks of 96	960	9.282 512
non sterile	0.2 - 10	1 rack of 96 + 20 refill packs of 96	2016	9.282 513
non sterile	0.2 - 10	20 refill packs of 96	1920	9.282 514

4



9.282 516

Pipette tips Finntip Flex 200

Thermo Scientific

Description	Capacity µl	Package contents	PK	Cat. No.
non sterile	1 - 200	1 bag of 1000	1000	9.282 515
non sterile	1 - 200	10 racks of 96	960	9.282 516
sterile	1 - 200	10 racks of 96	960	9.282 517
non sterile	1 - 200	1 rack of 96 + 20 refill packs of 96	2016	9.282 518
non sterile	1 - 200	20 refill packs of 96	1920	9.282 519

5



5 Pipette tips Finntip Flex 300

Thermo Scientific

Description	Capacity µl	Package contents	PK	Cat. No.
non sterile	5 - 300	1 bag of 1000	1000	6.228 755
non sterile	5 - 300	10 racks of 96	960	6.224 234
sterile	5 - 300	10 racks of 96	960	6.228 752
non sterile	5 - 300	1 rack of 96 + 20 refill packs of 96	2016	6.228 753
non sterile	5 - 300	20 refill packs of 96	1920	6.228 754

Pipette tips Finntip Flex 1000

Thermo Scientific

Description	Capacity	Package contents	PK	Cat. No.
	µl			
non sterile	100 - 1000	1 bag of 1000	1000	6.235 571
non sterile	100 - 1000	10 racks of 96	960	6.230 775 1
sterile	100 - 1000	10 racks of 96	960	9.282 520
non sterile	100 - 1000	1 rack of 96 + 16 refill packs of 96	1632	9.282 521
non sterile	100 - 1000	16 refill packs of 96	1536	9.282 522

1



6.230 775

Pipette tips Finntip Flex 1200

Thermo Scientific

Description	Capacity	Package contents	PK	Cat. No.
	µl			
non sterile	50 - 1200	1 bag of 1000	1000	6.228 758
non sterile	50 - 1200	10 racks of 96	960	6.228 756 2
sterile	50 - 1200	10 racks of 96	960	6.228 757
non sterile	50 - 1200	1 rack of 96 + 16 refill packs of 96	1632	9.282 523
non sterile	50 - 1200	16 refill packs of 96	1536	9.282 524

2



6.228 756

3 Pipette tips Finntip Flex Filter, sterile

Thermo Scientific

Description	Capacity	Package contents	PK	Cat. No.
	µl			
sterile	0.2 - 10	10 racks of 96	960	9.282 526
sterile	1 - 30	10 racks of 96	960	9.282 527
sterile	1 - 100	10 racks of 96	960	9.282 528
sterile	1 - 200	10 racks of 96	960	9.282 529
sterile	5 - 300	10 racks of 96	960	9.282 530
sterile	100 - 1000	10 racks of 96	960	9.282 531
sterile	50 - 1200	10 racks of 96	960	9.282 532
sterile	1000 - 10000	1 bag of 50	50	9.282 533

3



4 Pipette tips Finntip 1000

This mid-size tip comes in several pack sizes. The 10 x 96 rack is available sterile.

Thermo Scientific

Description	Capacity	Package contents	PK	Cat. No.
	µl			
non sterile	100 - 1000	1 box of 200	200	6.085 561
non sterile	100 - 1000	1 bag of 1000	1000	6.085 852
non sterile	100 - 1000	1 bag of 10,000	10000	6.076 481
non sterile	100 - 1000	10 racks of 96	960	6.802 498
sterile	100 - 1000	10 racks of 96	960	6.206 884
non sterile	100 - 1000	5 refill packs of 192	960	6.228 679

4



5 Pipette tips Finntip 1000 Extended

Tapered to 105mm in length the Finntip 1000 extended allows access to the narrowest container.

Thermo Scientific

Description	Capacity	Package contents	PK	Cat. No.
	µl			
non sterile	100 - 1000	1 bag of 1000	1000	7.200 433
non sterile	100 - 1000	5 racks of 96	480	6.224 236
sterile	100 - 1000	5 racks of 96	480	6.228 676

5



1


1 Pipette tips Finntip 5ml

Designed to prevent foaming and vortexing, this tip fits into all common sizes of laboratory vessels.

Thermo Scientific

Description	Capacity µl	Package contents	PK	Cat. No.
non sterile	1000 - 5000	1 box of 75	75	6.076 989
non sterile	1000 - 5000	1 bag of 500	500	6.510 003
non sterile	1000 - 5000	1 bag of 3000	3000	6.058 016
non sterile	1000 - 5000	5 racks of 54	270	6.053 602
sterile	1000 - 5000	5 racks of 54	270	6.900 937

2


2 Pipette tips Finntip 10 ml

The Finntip 10 ml was designed to eliminate vortexing and prevent foaming in the sample liquid.

Thermo Scientific

Description	Capacity µl	Package contents	PK	Cat. No.
non sterile	2000 - 10000	1 bag of 40	40	6.051 993
non sterile	2000 - 10000	1 bag of 100	100	6.051 307
non sterile	2000 - 10000	5 racks of 24	120	6.051 881
sterile	2000 - 10000	5 racks of 24	120	6.228 721

3


3 Pipette tips Finntip with Filter Tips

- Volume range 0.2µl-10ml
- Thirteen different models including extended versions
- Filters made from polyethylene, cannot be autoclaved
- Supplied in vacuum sealed sterilized tip racks
- Ideal for PCR and other amplification methods
- Pipetting of radioactive and infectious samples
- Certified free from endotoxin, DNA, DNase, RNase Type

Thermo Scientific

Description	Capacity µl	Length mm	Package contents	PK	Cat. No.
sterile	0.2 - 10	32	10 racks of 96	960	6.224 227
sterile	0.2 - 20	33	10 racks of 384	3840	9.282 544
sterile	0.2 - 50	48	10 racks of 384	3840	6.228 742
sterile	0.5 - 10	52	10 racks of 96	960	6.224 228
sterile	0.5 - 20	52	10 racks of 96	960	6.228 743
sterile	0.5 - 30	52	10 racks of 96	960	6.228 744
sterile	0.5 - 100	52	10 racks of 96	960	6.076 896
sterile	5 - 100	78	10 racks of 96	960	6.228 745
sterile	0.5 - 200	52	10 racks of 96	960	6.224 229
sterile	5 - 200	78	10 racks of 96	960	6.228 746
sterile	5 - 300	52	10 racks of 96	960	6.228 747
sterile	100 - 1000	71	10 racks of 96	960	6.085 289
sterile	100 - 1000	105	5 racks of 96	480	6.228 748
sterile	500 - 5000	147	5 racks of 54	270	6.224 230
sterile	1000 - 10000	15	5 racks of 24	120	6.228 750

4


4 Pipette tips Finntip Wide

With its wide orifice tip, the Finntip Wide was designed especially for pipetting fragile cell suspensions and macromolecules like genomic DNA. This tip eliminates the mechanical shearing that causes cell fragmentation.

Thermo Scientific

Description	Capacity µl	Package contents	PK	Cat. No.
non sterile	10 - 250	1 bag of 1000	1000	9.282 552
non sterile	10 - 250	10 racks of 96	960	9.282 554
sterile	10 - 250	10 racks of 96	960	9.282 555
non sterile	100 - 1000	1 bag of 400	400	6.206 960
non sterile	100 - 1000	1 bag of 6500	6500	6.228 740
non sterile	100 - 1000	10 racks of 96	960	6.089 601
sterile	100 - 1000	10 racks of 96	960	9.282 556

1 MBP Filter Tips, ART™

Manufactured using a special process, tips are furnished with a unique ART™ filter to eliminate any risk of cross-contamination between samples, which is particularly important in molecular biology. They are suitable for applications involving the use of DNA or RNA, as well as radioactive and infectious samples.

Thermo Scientific



- Certified free of RNase, DNase, DNA and pyrogens
- Sterile tips: Sterilised by gamma radiation
- Low Retention tips: Extremely hydrophobic surface for lower retention, superior precision and reproducibility of measurements

Type	Capacity µl	Package contents	Sterile	PK	Cat. No.
Standard	0,1-10	10 racks, 96 each	+	960	6.900 171
ART 10 REACH, extended	0,1-10	10 racks, 96 each	+	960	6.900 172
ART 10, MicroPoint, extended	0,5-10	10 racks, 96 each	+	960	6.801 103
ART 100E, MicroPoint	1-100	10 racks, 96 each	+	960	7.631 281
ART 100, MicroPoint	1-100	10 racks, 96 each	+	960	6.239 836
ART 200, Universal Fit	1-200	10 racks, 96 each	+	960	6.238 196
ART XLP 200, wide bore, REACH, extended	1-200	8 racks, 96 each	+	768	6.238 199
ART XLG, REACH, extended	1-200	8 racks, 96 each	+	768	6.269 284
ART 300, MicroPoint	1-300	10 racks, 96 each	+	960	6.256 423
ART 1000E, Universal Fit	1-1000	8 racks, 100 each	+	800	6.238 197
ART 1000 REACH, wide bore	1-1000	8 racks, 100 each	+	800	7.615 698
ART 1000G, SoftFit, wide bore	1-1000	8 racks, 100 each	+	800	7.658 822
ART 1000, Ergonomie, extended	100-1000	8 racks, 100 each	+	800	7.631 211

2 epT.I.P.S. Set (General Lab Product)



Eppendorf AG

Starter kit, consisting of one epT.I.P.S box filled with tips and 4 reload trays.

This pipette tips are General Lab Products for research purposes.



Colour	Capacity µl	Length mm	Package contents	PK	Cat. No.
anthracite	0.1 - 10	34	1 box with 5 trays of 96	480	6.273 879
grey	0.1 - 20	40	1 box with 5 trays of 96	480	6.273 880
light grey	0.5 - 20	46	1 box with 5 trays of 96	480	4.662 347
yellow	2 - 200	53	1 box with 5 trays of 96	480	6.273 881
orange	20 - 300	55	1 box with 5 trays of 96	480	4.662 348
green	50 - 1250	76	1 box with 5 trays of 96	480	4.662 350
red	500 - 2500	115	1 box with 5 trays of 48	240	4.662 351
blue	50 - 1000	71	1 box with 5 trays of 96	480	4.663 193

Online also available as IVD version.

3 Pipette tips epT.I.P.S. Box (General Lab Product)



Eppendorf AG

- Work box, filled with tips
- autoclavable
- contamination-free refilling system suitable for loading epT.I.P.S reloads

This pipette tips are General Lab Products for research purposes.



Colour	Capacity µl	Length mm	Package contents	PK	Cat. No.
anthracite	0,1 - 10	34	1 box of 96	96	4.662 338
grey	0,1 - 20	40	1 box of 96	96	4.662 339
light grey	0,5 - 20	46	1 box of 96	96	4.662 340
yellow	2 - 200	53	1 box of 96	96	4.662 341
orange	20 - 300	55	1 box of 96	96	4.662 342
blue	50 - 1000	71	1 box of 96	96	4.662 343
green	50 - 1250	76	1 box of 96	96	4.662 344
red	250 - 2500	115	1 box of 48	48	4.662 345
purple	100 - 5000	120	1 box of 24	24	4.662 346

Online also available as IVD version.

1

1 Pipette tips epT.I.P.S. Standard

Eppendorf AG



Original Eppendorf, high quality, pipette tips at an attractive price.
 - packed in multi sealable bag
 - tips available in various sizes from 10 µl up to 10.000 µl

Colour	Capacity µl	Length mm	Package contents	PK	Cat. No.
anthracite	0.1 - 10	34	2 bags of 500	1000	9.409 410
grey	0.1 - 20	40	2 bags of 500	1000	9.409 411
light grey	0.5 - 20	46	2 bags of 500	1000	9.409 412
yellow	2 - 200	53	2 bags of 500	1000	9.409 413
orange	20 - 300	55	2 bags of 500	1000	9.409 414
blue	50 - 1000	71	2 bags of 500	1000	9.409 415
green	50 - 1250	76	2 bags of 500	1000	9.409 416
dark green	50 - 1250	103	2 bags of 500	1000	6.238 121
red	250 - 2500	115	5 bags of 100	500	9.409 417
purple	100 - 5000	120	5 bags of 100	500	9.409 418
purple	200 - 5000	175	3 bags of 100	300	6.284 714
turquoise	500 - 10000	165	2 bags of 100	200	9.409 403
turquoise	500 - 10000	243	2 bags of 100	200	9.409 404

2

2 epT.I.P.S. Standard, clear

Eppendorf AG



Colour	Capacity µl	Length mm	Package contents	PK	Cat. No.
clear	2 - 200	53	1 pack of 1000	1000	9.409 407
clear	20 - 300	55	1 pack of 1000	1000	9.409 408
clear	50 - 1000	71	1 pack of 1000	1000	9.409 409

3

3 epT.I.P.S. Reloads (General Lab Product)

Eppendorf AG



- Practical refilling system for epT.I.P.S. box
- Trays supplied either double-sided or as stack packs, depending on tip size
- Contamination-free transfer to the trays into the work box
- Autoclavable trays are available
- Colour-coded trays for simple identification of the tips.

This pipette tips are General Lab Products for research purposes.

Colour	Capacity µl	Length mm	Package contents	PK	Cat. No.
anthracite	0,1 - 10	34	10 trays of 96	960	4.662 352
grey	0,1 - 20	40	10 trays of 96	960	4.662 353
light grey	0,5 - 20	46	10 trays of 96	960	4.662 354
yellow	2 - 200	53	10 trays of 96	960	4.662 355
orange	20 - 300	55	10 trays of 96	960	4.662 356
blue	50 - 1000	71	10 trays of 96	960	4.662 357
green	50 - 1250	76	10 trays of 96	960	4.662 358
red	500 - 2000	115	10 trays of 96	480	4.662 359

Online also available as IVD version.

1 epT.I.P.S. Reloads (General Lab Product)



Eppendorf AG

- practical refilling system for epT.I.P.S. Box
- workbox with tips
- autoclavable
- PCR quality
- certified free from human DNA, DNase, RNase and PCR inhibitor



This pipette tips are General Lab Products for research purposes.

Colour	Capacity µl	Length mm	Package contents	PK	Cat. No.
anthracite	0,1 - 10	34	10 trays of 96	960	4.662 363
grey	0,1 - 20	40	10 trays of 96	960	4.662 364
light grey	0,5 - 20	46	10 trays of 96	960	4.662 365
yellow	2 - 200	53	10 trays of 96	960	4.662 366
orange	20 - 300	55	10 trays of 96	960	4.662 367
blue	50 - 1000	71	10 trays of 96	960	4.662 368
green	50 - 1250	76	10 trays of 96	960	4.662 369
dark green	50 - 1250	103	10 trays of 96	960	4.662 361
red	500 - 2500	115	10 trays of 48	480	4.662 370

Online also available as IVD version.

2 epT.I.P.S. Racks, Biopur® (General Lab Product)

Highest biological purity Eppendorf Biopur pipette tips (sterile, pyrogen-, RNase-, DNA-, ATP-free)

Eppendorf AG

- Batch controlled
- Batch specific certificate available on request
- Individually boxed racks, 5 Boxes per pack

This pipette tips are General Lab Products for research purposes.

Colour	Capacity µl	Length mm	Package contents	PK	Cat. No.
yellow	2 - 200	53	5 racks of 96	480	4.671 448
orange	20 - 300	55	5 racks of 96	480	4.662 373
violet	100 - 5000	120	5 racks of 24	120	4.671 454
violet	200 - 5000	175	5 racks of 24	120	4.662 380
turquoise	500 - 10000	165	5 racks of 24	120	4.671 456

Online also available as IVD version.



3 4 epT.I.P.S. Dualfilter tips

- Pipette tips boxed in racks with integral, twin-layer ep Dualfilter made from hydrophobic polyethylene without additives. One layer protects the user against aerosols, the other against airborne microbes

Eppendorf AG

- All tips are **sterile, pyrogen-free** and **PCR clean** (free from human DNA, DNase, RNase, PCR Inhibitors)
- Batch specific certificate available on request
- The filter doesn't retain liquid when accidentally wetted during aspiration, the whole sample can be recovered easily

Colour	Capacity µl	Length mm	Package contents	PK	Cat. No.
anthracite	0.1 - 10	34	10 racks of 96	960	6.315 154
mid grey	0.1 - 10	40	10 racks of 96	960	6.314 721
light grey	0.5 - 20	46	10 racks of 96	960	6.315 065
yellow	2 - 20	53	10 racks of 96	960	6.315 155
yellow	2 - 100	53	10 racks of 96	960	6.314 988
yellow	2 - 200	55	10 racks of 96	960	6.314 811
orange	20 - 300	55	10 racks of 96	960	6.315 156
blue	50 - 1000	76	10 racks of 96	960	4.678 130
dark green	50 - 1250	103	5 racks of 96	480	6.314 733
purple	100 - 5000	120	5 racks of 24	120	4.674 945
purple	200 - 5000	175	5 racks of 24	120	6.314 551
turquoise	1000 - 10000	243	100 tips, single packed	100	9.409 406



1

2


1 2 Pipette tips epT.I.P.S. LoRetention



Eppendorf AG

Ideally suited for all applications with samples that contain detergents:

- PCR and real-time PCR preparation of enzyme solutions and master mixes
- Isolation, purification and denaturation of proteins
- Restriction digestions and ligations
- Pipetting DNA ladders during gel electrophoresis

Features:

- Ultrahomogeneous surface for maximum reproducibility
- Ultrahydrophobic surface for minimum loss of sample
- Air bubbles and foaming are significantly reduced during pipetting
- Autoclavable, high chemical resistance - 5 year shelf life

Simple differentiation of racks and reloads through a new, clear lid with a white seal. When open, the text **LoRetention** can be seen from the inside. The reusable seal makes it also possible to label existing ep T.I.P.S. boxes.

Pipette tips epT.I.P.S. LoRetention Dual Filter, racks

PCR clean, sterile, pyrogen-free.

Eppendorf AG

Capacity µl	Length mm	Package contents	PK	Cat. No.
2 - 100	53	10 racks of 96	960	4.671 478
20 - 300	55	10 racks of 96	960	4.671 480
50 - 1000	76	10 racks of 96	960	9.409 429

3


3 Pipette Tips epT.I.P.S.® LoRetention, Set

Sets, consisting of one epT.I.P.S box filled with tips and 4 reload trays.

Eppendorf AG

Colour	Capacity µl	Length mm	Package contents	PK	Cat. No.
dark grey	0.1 - 10	34	1 box with 5 trays of 96	480	9.409 520
light grey	0.5 - 20	46	1 box with 5 trays of 96	480	9.409 521
yellow	2 - 200	53	1 box with 5 trays of 96	480	9.409 522
blue	50 - 1000	71	1 box with 5 trays of 96	480	9.409 523

Pipette tips epT.I.P.S. LoRetention, Reloads

10 x 96 tips.

Eppendorf AG

Type	Length mm	Package contents	PK	Cat. No.
0.1 - 10	34	10 trays of 96	960	9.409 495
0.5 - 20	46	10 trays of 96	960	9.409 496
2 - 200	59	10 trays of 96	960	9.409 497
50 - 1000	76	10 trays of 96	960	9.409 498

Pipette tips epT.I.P.S. LoRetention, Reloads PCR clean

PCR clean, sterile, pyrogen-free. 10 x 96 tips.

Eppendorf AG

Capacity µl	Length mm	Package contents	PK	Cat. No.
0.1 - 10	34	10 trays of 96	960	9.409 490
0.5 - 20	46	10 trays of 96	960	9.409 491
2 - 200	59	10 trays of 96	960	9.409 492
50 - 1000	76	10 trays of 96	960	9.409 493

Robotic Tips blackKnights

Due to an increased level of automation within pipetting processes there is a growing demand for high-quality consumables. With blackKnights robotic tips even smallest volumes can be pipetted precisely and without contamination. Conductive robotic tips are used to recognize the liquid level automatically, therefore the tips dip into the liquid only as far as necessary for a secure pipetting and dispensing.

Ritter

- Material: virgin polypropylene
- Packed in racks, blister packs or in a PE-bag
- Volumes: 10, 50, 200, 300, 1000, 1100, 1200 and 1300 µl
- High compatibility

Depending on the type of robotic tips, they are compatible with the following robotic systems:

Type Tecan®: Tecan: Genesis, Freedom EVO, MiniPrep, Cavo/Qiagen/Corbett: CAS1200/4200/4800, QIAgility/PerkinElmer: Multiprobe II, Janus (with Multiprobe-head), only tips without filter/Abbott Diagnostic: m2000#

Type Qiagen®: Abbott Diagnostic: en4lisa/bioMerieux: DaVinci/Bio-Rad: Evolis/Biotest: QuickStep/Dade Behring (Siemens): BEP 2000 Advance/DiaSorin: ETI-Max 3000/Diffchamb: T4U/Euroimmun: Euroimmun Analyzer/Grifols: Triturus/Human: Elisys Quattro/Qiagen: Biorobot 3000, 8000, 9600, 9604, Biorobot universal/Stratec: Gemini/Virion: Immunomat TWINsystem

Typ Hamilton®: Hamilton Microlab Star™, Nimbus®, Vantage™

Typ Dynex®: Dynex DSX, Dynex DS2

Typ Olympus®: Beckman Coulter: AutoMate 1250/2550/Olympus: OLA 2500

1



6.283 762

2



6.283 784

Capacity µl	Package contents	Description	For	PK	Cat. No.
10	180 racks of 96	in Dual-Pack	Tecan®	17280	6.283 766
10	24 racks of 96	in blister-2	Tecan®	2304	6.285 843
50	180 racks of 96	in Dual-Pack	Tecan®	17280	6.283 768
50	24 racks of 96	in blister-2	Tecan®	2304	6.285 844
50	24 racks of 96	in blister-2, sterile with filter	Tecan®	2304	6.290 645
200	180 racks of 96	in Dual-Pack	Tecan®	17280	6.283 770
200	24 racks of 96	in blister-2, sterile with filter	Tecan®	2304	6.290 651
1000	100 racks of 96	in Dual-Pack	Tecan®	9600	6.283 773
300	180 racks of 96	in Dual-Pack	Qiagen®	17280	6.283 762 1
300	10 bags of 960	in PE bag	Qiagen®	9600	6.283 763
1100	100 racks of 96	in Dual-Pack	Qiagen®	9600	6.283 764
1100	5 bags of 960	in PE bag	Qiagen®	4800	6.283 765
10	80 racks of 96	in blister-5	Hamilton®	7680	6.283 775
50	80 racks of 96	in blister-5	Hamilton®	7680	6.283 777
50	80 racks of 96	in blister-5, with filter	Hamilton®	7680	6.290 652
300	80 racks of 96	in blister-5, with filter	Hamilton®	7680	6.290 653
300	80 racks of 96	in blister-5	Hamilton®	7680	6.283 779
1000	80 racks of 96	in blister-5	Hamilton®	4800	6.283 781
1000	80 racks of 96	in blister-5, with filter	Hamilton®	4800	6.290 654
300	72 racks of 108	blue Sample Tips in rack*	Dynex®	7776	6.283 783
1300	72 racks of 108	clear Reagent Tips in rack*	Dynex®	7776	6.283 784 2
1200	8 racks of 140	in rack	Olympus®	1120	9.409 558

*non-conductive

Tecan is a registered trademark of Tecan AG.

Qiagen is a registered trademark of Qiagen GmbH.

Olympus is a registered trademark of Olympus GmbH.

DSX and DS2 are registered trademarks of Dynex Technologies.

MagNA Pure is a registered trademark of Roche.

Microlab Star, Nimbus and Vantage are registered trademarks of Hamilton AG.

3 Storage system "MultiStore"

White, made of highly impact resistant plastic. Tilt bins made of crystal clear PS.

- for small components and accessories e.g. in industries, hospitals and laboratories
- dust-free and clean storage of contents
- multifunctional for individual storage solutions

3



Description	External dimensions (W x D x H) mm	Dimensions* (W x D x H) mm	PK	Cat. No.
4 tilt bins	601 x 171,5 x 206	125,5 x 128 x 133,5	1	9.301 553
3 tilt bins	601 x 198 x 238	176 x 149 x 161	1	9.301 554
2 tilt bins	601 x 310,5 x 353	265 x 221 x 241	1	9.301 555

*Dimensions of each single tilt bin

1


1 Workstation Dispensing Bin for Pipette tips

Crystal-clear bins let you see your small items inventory. See inventory levels of pipette tips, tubes, fittings, finger cots, and other bulk small items at a glance. Flip-top covers on generous openings make filling and dispensing easy and keep products dust-free. 4 sizes available to cater to a wide variety of storage needs. With non-skid rubber feet.

Heathrow Scientific

Description	External dimensions (W x D x H) mm	PK	Cat. No.
1 compartment	180 x 175 x 235	1	6.243 164
2 compartments	139 x 160 x 368	1	6.224 367
3 compartments	210 x 155 x 212	1	6.224 368
4 compartments	278 x 158 x 217	1	6.243 165

2


2 Dispensing bins

- Nonskid rubber feet
- Pre-drilled holes for wall mounting
- Mounting screws included
- Green bin includes a removable divider

Heathrow Scientific

Colour	Dimensions (W x D x H) mm	PK	Cat. No.
Neon green	180 x 155 x 165	1	6.243 700
Neon blue	155 x 155 x 170	1	6.290 709

3


3 LLG-Disposable Reagent reservoirs economy, PS

Made from polystyrol. Designed for use with multi-channel pipettes and can accommodate up to 12-channel standard pipettes. Angled sides and a V-shaped bottom allow maximum recovery of reagents. All reservoirs have internal graduated volume lines and pour-spouts on the corners. 25 ml or 50 ml versions. Available as sterile and non-sterile versions.

- DNase-, RNase- and pyrogen-free certified

Description	Capacity ml	PK	Cat. No.
non-sterile, bulk	25	100	6.282 144
sterile, single packed	25	100	6.282 145
non-sterile, bulk	50	100	6.282 146
sterile, single packed	50	100	6.282 147

4


4 Reagent Reservoirs

Disposable Reagent Reservoirs with a V-shaped bottom to ensure that all the reagent is accessible and can be easily aspirated. Thick wall construction and wide base adds stability and durability making the reservoir easy to handle without product deformation.

Heathrow Scientific

- Graduation markings allow for measurement of the liquid
- With pour-off spouts on all corners
- Stackable, with nesting system for easy separation
- Sterile versions are sealed in bags, electron beam sterilised and Dnase, Rnase and pyrogen-free
- Quality certificate available on request

Capacity ml	Description	Package contents	PK	Cat. No.
5	PS, white, sterile	50 bags of 1	50	4.666 436
10	PS, white, non-sterile	1 bag of 100	100	4.666 437
10	PS, white, sterile	100 bags of 1	100	4.666 438
25	PS, white, sterile	40 bags of 5	200	4.666 439
25	PS, white, sterile	100 bags of 1	100	4.666 440
25	PS, white, non-sterile	1 bag of 100	100	4.666 441
50	PS, white, sterile	40 bags of 5	200	4.666 442
50	PS, white, sterile	100 bags of 1	100	4.666 443
50	PS, white, non-sterile	1 bag of 100	100	4.666 444
55	PS, white, sterile	100 bags of 1	100	4.667 980
55	PS, white, non-sterile	1 bag of 100	100	4.667 915
100	PS, white, sterile	40 bags of 5	200	4.666 447
100	PS, white, sterile	100 bags of 1	100	4.666 448
100	PS, white, non-sterile	1 bag of 100	100	4.666 449
50	PVC, transparent, sterile	20 bags of 5	100	4.666 445
50	PVC, transparent, non-sterile	1 bag of 100	100	4.666 446
55	PVC, transparent, non-sterile	1 bag of 100	100	4.667 913
100	PVC, transparent, non-sterile	1 bag of 100	100	4.666 450
25	PS, white, sterile, divided in 10 and 15 ml	40 bags of 5	200	4.666 451
25	PS, white, sterile, divided in 10 and 15 ml	100 bags of 1	100	4.666 452

1 Reagent Reservoir Coolers

Ice-free, non-toxic way to extend working period for temperature sensitive reagents. Suitable for Heathrow Scientific 50, 55 or 100 ml reservoirs.

Heathrow Scientific

- Reagents are kept at less than 5 °C for approximately 3 hours
- Ice-free solution eliminates the risk of contamination from ice baths
- Non-toxic blend of water and bacteriostatic agent chills and freezes quickly
- Leak-free due to sonic welded polypropylene
- Not intended for autoclave, do not use with liquid nitrogen
- Stackable
- 2 year warranty

Capacity ml	Colour	PK	Cat. No.
55	purple	2	6.292 150
55	blue	2	6.292 151
55	1 x purple + 1 x blue	2	6.292 152
100	purple	2	6.292 153
100	blue	2	6.292 154
100	1 x purple + 1 x blue	2	6.292 155

1



2 Reagent Reservoirs Matrix™, PS, sterile

Sterile trough-shaped reservoirs with pour-off spouts on all 4 corners. With graduations on inside wall.

Thermo Scientific

Capacity ml	Description	PK	Cat. No.
25	without divider, in bags of 10	100	6.254 234
25	without divider, single packed	50	6.255 755
25	with divider, in bags of 10	100	6.254 233
25	with divider, single packed	50	6.253 543
100	without divider, single packed	50	6.255 754

2



3 Multichannel pipette reservoir



BRAND

PP. Translucent. Maximum filling volume 60ml. Suitable for multichannel pipettes with 8 or 12 channels. Autoclavable (121 °C).

Description	PK	Cat. No.
non-sterile, with lid	10	9.280 131
sterile, without lid (single packed)	100	9.280 132
sterile, without lid (in bags with 5 pieces)	200	9.280 133

3



1



1 Manual Serial Dispenser LLG-uniDISPENS pro

The **ergonomically designed** manual dispenser LLG-uniDISPENS pro enables single-handed volume selection, loading and dispensing. Due to its lightweight design, it is ideally suited for serial dosing. You can flexibly select your desired dosing volume from **120 dosing programs** for 12 tip sizes and with 10 stroke adjustments. You can view all settings and volumes at a single glance through the viewing window of the manual dispenser. The dispenser is **compatible with Ritips® from Ritter, PD-Tips® from Brand, Combitips® and Combitips advanced® from Eppendorf™**. Thanks to a purely mechanical, maintenance-free construction, the manual dispenser is a practical and convenient device for daily laboratory use. **Dosing volume 1 µl to 5500 µl.**

Scope of supply: Dispenser, adapter for 25 ml tips, 3 years warranty

Description	PK	Cat. No.
LLG-uniDISPENS pro	1	9.284 239

Accessories for manual serial dispenser

Spare adapter for 25 and 50 ml Tips, for LLG-uniDISPENS, LLG-uniDISPENS pro, manual step dispenser ripette®, dispenser tips Ritips®, dispenser tips Ritips® evolution.

Description	PK	Cat. No.
Spare adapter for 50 ml	1	6.310 548

2



2 Manual step dispenser, ripette®

Ritter ripette® is a very comfortable device for hand dispensing of long series. A special technical mechanism guarantees the precision of all selected dosage volumes: 1 to 5000µl.

Ritter

Product advantages:

- Chart with dosage setting volumes incorporated into each dispenser.
- Lightweight (approx. 100g)
- Easy-to-use adjustment dial for the selection of dosage volume and the number of steps
- No mechanical parts that wear out, no maintenance

Dispenser tips ritips® 25ml and 50ml cannot be used without adapter (Adapter included in delivery).

Description	PK	Cat. No.
ripette® with 25/50 ml adapter	1	9.284 190

We can **supply** this
manufacturer's
whole
product range !



1 Dispenser Tips Ritips® Evolution

Universal dispenser tips for a variety of steppers. The nine tip sizes are equipped with colour-coded adapters for faster identification.

- Easy, high-precision work even in the low µl range
- Suitable for viscous, infectious and volatile liquids due to direct displacement method
- Tips individually and mechanically tested for safe and repeatable application
- Available in standard and bioclean® quality (individually wrapped and sterile)
- bioclean® label is certified by accredited laboratories and means sterilized, pyrogen-, ATP-, RNase- and DNA-free
- A batch certificate is available on request
- Lot number on each box

Suitable for Ripette®, Ripette® pro, Ripette® genX (Ritter), eLine™ Dispenser (Sartorius), Multipette® 4780, Multipette® plus (Eppendorf), Minilab 100, Minilab 101, Minilab 201, Distriman®(Gilson), StepMate, EasyStep, EasyStep electronic, RepeatOne®(Starlab), Handrop, HandyStep®, HandyStep® S, HandyStep® electronic (Brand).

**Please note: Dispenser tips 25 ml and 50 ml cannot be used without adapter.
If necessary, please order Cat. No. 6.310 203 or 6.310 548 separately.**

Type	PK	Cat. No.
0.1 ml / standard	100	6.291 326
0.2 ml / standard	100	6.291 327
0.5 ml / standard	100	6.291 328
1.0 ml / standard	100	6.291 329
2.5 ml / standard	100	6.291 330
5.0 ml / standard	100	6.291 331
10.0 ml / standard	100	6.291 332
25.0 ml / standard	25	6.291 333
50.0 ml / standard	25	6.291 334
0.1 ml / bioclean® sterile	100	6.291 335
0.2 ml / bioclean® sterile	100	6.291 336
0.5 ml / bioclean® sterile	100	6.291 337
1.0 ml / bioclean® sterile	100	6.291 338
2.5 ml / bioclean® sterile	100	6.291 339
5.0 ml / bioclean® sterile	100	6.291 340
10.0 ml / bioclean® sterile	100	6.291 341
25.0 ml / bioclean® sterile	25	6.291 342
50.0 ml / bioclean® sterile	25	6.291 343



Dispenser tips, Ritips®

- 8 sizes, standard and bioclean® (sterile).
- Maximum of safety and repeatability as all tips are individually and mechanically tested.
- Guaranteed purity under the logo bioclean® is tested and confirmed by independent testing laboratories. Ritter bioclean® stands for sterile, pyrogen-free, DNA-, RNase- and ATP-free.
- A quality certificate per lot can be obtained upon request.

Suitable for use together with Ritter ripette®, Multipette® 4780, HandyStep®, Minilab 100/101, Stepmate, EasyStep, Distriman® and HandyStep® electronic.

**Please note: Dispenser tips Ritips® 25 ml and 50 ml cannot be used without adapter.
If necessary, please order Cat.-No. 6.310 203 or 6.310 548 separately.**

Type	PK	Cat. No.
0.05 ml / standard	100	6.265 688 2
0.5 ml / standard	100	4.663 307
1.25 ml / standard	100	6.265 689 3
2.5 ml / standard	100	4.663 308
5.0 ml / standard	100	4.663 309
12.5 ml / standard	100	9.284 225 4
25.0 ml / standard	25	6.310 204
50.0 ml / standard	25	4.663 310
0.05 ml / bioclean® sterile	100	6.290 742
0,5 ml / bioclean® steril	100	6.310 600
1.25 ml / bioclean® sterile	100	6.265 691
2.5 ml / bioclean® steril	100	4.663 311
5.0 ml / bioclean® steril	100	4.663 312
12.5 ml / bioclean® sterile	100	6.288 768
25.0 ml / bioclean® steril	25	4.663 313
50.0 ml / bioclean® steril	25	4.663 314

Ritter

2



6.265 688

3



6.265 689

4



9.284 225



1

1 Manual repetitive pipette HandyStep® S

HandyStep® S - the repetitive pipette for any occasion!

BRAND

Ideal for routine or research applications in diagnostics, molecular biology, environmental analysis, and many more. HandyStep® S and PD-tips work on the direct displacement principle. This offers the highest-precision dispensing of liquid media with high viscosity, high density, or high vapor pressure. Direct displacement permits contamination-free operation, since no aerosols are formed.

More data and facts:

- increased chemical resistance through innovative plastic materials
- easy tip mounting - PD-tip is now simply inserted from below
- dispensed volume range from 2 µl to 5ml
- up to 49 dispensing steps
- weighs only 108g
- suitable for use with BRAND PD-tips, Encode™ tips, Repet tips, Combitips®, Combitips® plus and other compatible dispenser tips
- CE- IVD -compliant

Items supplied

HandyStep® S, DE-M marking, with serial number, performance certificate, operating manual, shelf/rack mount, 3 PD-Tips: 0.1ml, 1ml and 10ml.

Type	PK	Cat. No.
HandyStep® S incl. rack holder	1	9.280 944
Rack holder for HandyStep® S	1	9.280 945



2

Repetitive pipette HandyStep® touch/HandyStep® touch S

Repetitive pipette with colour touch display and automatic tip size recognition.

BRAND

The automatic tip size recognition of the PD-Tips II, with patented coding on the piston, automatically displays the tip size after inserting the tip. By inserting a new PD-tip of the same size, all instrument settings are maintained.

HandyStep® touch with the standard modes Multi-Dispensing, Auto-Dispensing, Pipetting and Favorites
HandyStep® touch S with the additional functions Sequential Dispensing, Multi-Aspiration and Titration

- Touchscreen operation with intuitive menu navigation and integrated help function
- Important functions and parameters visible at a glance
- Automatic tip ejection by the press of a button
- Ergonomically arranged STEP button
- Variable volume adjustment from 1.0 µl to 50 ml
- USB-C connection for quick charging by cable
- Inductive charging with optional charging stand
- Compatible third party tips can also be used

9.284 015



3

Scope of supply: Repetitive pipette, includes universal AC adapter (for Europe, UK, USA, Japan, Australia and New Zealand), shelf/rack mount, sample PD-Tips II, operating manual, performance certificate

9.284 016

Type	PK	Cat. No.
HandyStep® touch	1	9.284 015 2
HandyStep® touch S	1	9.284 016 3



4

Accessories for repetitive pipette HandyStep® touch/HandyStep® touch S

BRAND

9.284 065

Description	PK	Cat. No.
Charging stand without universal AC adapter	1	9.284 065 4
Support stand	1	9.284 066
Universal AC adapter	1	9.284 067
Shelf / rack mount	1	9.284 068
Spare battery	1	9.284 069

1 Dispenser tips, PD-Tips II

Thanks to patented size coding, HandyStep® touch, HandyStep® touch S, HandyStep® electronic, Gilson® Repetman® and Rainin AutoRep™ E automatically detect the tip volume. The tips are also compatible with all other instruments of the HandyStep® family and with repetitive pipettes from other manufacturers.

BRAND

- Cylinder: PP/piston: HDPE, 0.1 ml piston: LCP
- Volumes from 0.1 ml to 50 ml
- Available in BIO-CERT® quality (free of DNA, RNase, endotoxins and ATP)
- Comply with the requirements of ISO 8655
- Supplied with batch certificate
- Adapter for sizes 25 ml and 50 ml included
- PD-Tips II cannot be autoclaved; the adapters are autoclavable



Nominal capacity ml	Description	Sterile	PK	Cat. No.
0.10	bulk	-	100	9.280 950
0.50	bulk	-	100	9.280 951
1.00	bulk	-	100	9.280 952
1.25	bulk	-	100	9.280 953
2.50	bulk	-	100	9.280 954
5.00	bulk	-	100	9.280 955
10.00	bulk	-	100	9.280 956
12.50	bulk	-	100	9.280 957
25.00	bulk	-	50	9.280 958
50.00	bulk	-	25	9.280 959
0.10	BIO-CERT®, individually wrapped	+	100	9.280 960
0.50	BIO-CERT®, individually wrapped	+	100	9.280 961
1.00	BIO-CERT®, individually wrapped	+	100	9.280 962
1.25	BIO-CERT®, individually wrapped	+	100	9.280 963
2.50	BIO-CERT®, individually wrapped	+	100	9.280 964
5.00	BIO-CERT®, individually wrapped	+	100	9.280 965
10.00	BIO-CERT®, individually wrapped	+	100	9.280 966
12.50	BIO-CERT®, individually wrapped	+	100	9.280 967
25.00	BIO-CERT®, individually wrapped, incl. adapter	+	25	9.280 968
50.00	BIO-CERT®, individually wrapped, incl. adapter	+	25	9.280 969
	Set PD-Tips II, 20 pcs. of each size 0,5, 1, 1,25, 2,5, 5, 10 and 12,5 ml, bulk	-	140	9.280 949

2 Pipettors, positive displacement, variable, repeating, Stepper™ 416

NEW

Highly comfortable pipette, intended for reliable repeat dispensing from 10 to 5000 µl. Unique trigger action mechanism eliminates thumb fatigue. Selected materials ensure reliability in use, day after day. Compact shape greatly limits internal instrument contamination. Wide selection between 53 different volumes; up to 73 doses per filling. Two-year warranty.

Socorex

- 4-finger activation
- Setting knobs bear clear indication of volumes and number of aliquots
- Three positive displacement syringes, colour coded
- Self-locking mechanism
- Clear setting indication

2



Description	PK	Cat. No.
Stepper™ 416 supplied with colour-coded adjustment knobs, adapter, samples of Ecostep syringes	1	4.678 370

3 Syringe tips, Ecostep for Stepper™ 411/416

Individually wrapped sterile, or loose-packed non-sterile.

Socorex

Bioproof: Sterilized syringes are DNase-, RNase- and pyrogen-free certified.

3



Type	Capacity µl	Capacity	PK	Cat. No.
Non-sterile	10 - 100	0.75	100	9.411 509
Non-sterile	50 - 500	3.75	100	9.411 511
Non-sterile	500 - 5000	37.5	100	9.411 513
Sterile	10 - 100	0.75	50	9.411 578
Sterile	50 - 500	3.75	50	9.411 579
Sterile	500 - 5000	37.5	50	9.411 580

1



1 Dispensers Multipette® M4

On the Multipette®/Combitip system, volumes are dispensed using the positive displacement principle. The liquid is directly dispensed without an air cushion, ensuring the correct volume is always dispensed regardless of the density and viscosity of the liquid. In addition to serial dispensing, the Multipette is also the perfect instrument that is able to go beyond the limitations of a standard pipette.

Eppendorf AG

- Light and ergonomic
- Stress-free work via integrated step counter: dispensing procedures can be continued error-free after an interruption or distraction
- Central Combitip ejector: fully emptied Combitip can be easily ejected with one hand using the operating lever
- Step counter: Displays the number of executed dispensing steps
- Only suitable with Eppendorf Combitips advanced
- Combitip sensor: Automatic Combitip recognition and volume display

Applications

- Repetitive Dispensing of volumes in long series such as plate filling or when aliquoting
- Contamination-free dispensing of toxic, radioactive and or other hazardous liquids
- Precise and accurate dispensing of viscous solutions (e.g. glycerol) or liquids with high vapor pressure (e.g. ethanol)

Type	PK	Cat. No.
Multipette® M4 incl. holder	1	9.283 604
Multipette® M4 Starter Kit, incl. Combitip Rack and Combitip Assortmentpack 1µl - 10ml	1	9.283 681

2



2 Dispensers Multipette® E3 and Multipette® E3x

The new generation of Multipette®, E3 and E3x, exhibit an enlarged color-display and have an intuitive and user-friendly software. No multiple assignment of keys. The Multipette® E3x has a new aspirate and dispensing feature which allows uptake and volume calculation of an unknown volume with immediate dispense in desired partial volumes. In addition to this, up to 225 different parameter settings can be stored saving programming time for routine applications. A new sleep mode saves energy when the Multipette® E3x is not used.

Eppendorf AG

Applications

- Dispensing volumes in long series
- Electronic dispensing with memory functions
- Contamination-free dispensing using positive displacement principle
- Ideal for viscous solutions (e.g. glycerol, oil) or liquids with high vapour pressure (e.g. acetone, ethanol)

Product features, Multipette® E3 and E3x

- Dispensing and pipetting according to positive displacement principle
- Automatic dispensing
- Eight different speed levels for different applications
- One-button tip ejector
- Li-Ion battery
- Selection wheel
- Automatic Combitip® plus tip recognition
- Volume range from 1µl to 50ml
- Charging possible whilst in use
- incl. charging adapter (100-240V), Multipette® E3/E3x Bundle, additionally with charge stand

Additional Multipette® E3x features:

- Aspirate (pipetting of supernatants)
- Titrate
- Sequential dispensing
- Combined aspiration and dispensing mode

E3 Basic and E3x Basic: only available in exchange for a defective electronic hand dispenser.

Type	PK	Cat. No.
Multipette® E3*	1	9.283 687
Multipette® E3x*	1	9.283 688
Multipette® E3 Bundle*	1	9.283 691
Multipette® E3x Bundle*	1	9.283 692

incl. 2 Combitips advanced assortment packs

1 Pipette tips, Eppendorf Combitips advanced®

For viscous liquids up to 200 mPa*s and high vapour pressure, e.g. ethanol and acetone.

Eppendorf AG

- Colour coded with 1 colour ring
- Continuous volume scale
- Automatic tip recognition in Multipette® 4780, Multipette® plus, Multipette® stream and Xstream



Type	Capacity ml	Colour code	PK	Cat. No.
Combitips advanced®	0.1	white	100	9.283 135
Combitips advanced®	0.2	light blue	100	9.283 136
Combitips advanced®	0.5	purple	100	9.283 137
Combitips advanced®	1.0	yellow	100	9.283 138
Combitips advanced®	2.5	green	100	9.283 139
Combitips advanced®	5.0	blue	100	9.283 140
Combitips advanced®	10.0	orange	100	9.283 141
Combitips advanced®	25.0	red	100	9.283 142
Combitips advanced®	50.0	light grey	100	9.283 143
Combitips advanced®, PCR clean	0.1	white	100	9.283 144
Combitips advanced®, PCR clean	0.2	light blue	100	9.283 145
Combitips advanced®, PCR clean	0.5	purple	100	9.283 146
Combitips advanced®, PCR clean	1.0	yellow	100	9.283 147
Combitips advanced®, PCR clean	2.5	green	100	9.283 148
Combitips advanced®, PCR clean	5.0	blue	100	9.283 149
Combitips advanced®, PCR clean	10.0	orange	100	9.283 150
Combitips advanced®, PCR clean	25.0	red	100	9.283 151
Combitips advanced®, PCR clean	50.0	light grey	100	9.283 152
Combitips advanced® Biopur®	0.1	white	100	9.283 153
Combitips advanced® Biopur®	0.2	light blue	100	9.283 154
Combitips advanced® Biopur®	0.5	purple	100	9.283 155
Combitips advanced® Biopur®	1.0	yellow	100	9.283 156
Combitips advanced® Biopur®	2.5	green	100	9.283 157
Combitips advanced® Biopur®	5.0	blue	100	9.283 158
Combitips advanced® Biopur®	10.0	orange	100	9.283 159
Combitips advanced® Biopur®	25.0	red	100	9.283 160
Combitips advanced® Biopur®	50.0	light grey	100	9.283 161
Combitips advanced® Forensic DNA Grade	1.0	yellow	100	6.287 822
Combitips advanced® Forensic DNA Grade	2.5	green	100	6.287 823
Combitips advanced® Forensic DNA Grade	5.0	blue	100	6.287 824
Combitips advanced® Assortment pack			1	9.283 167

(1pc. of each size plus each 1pc. 25ml and 50ml adapter)

2 Accessories for Pipette tips, Eppendorf Combitips advanced®

Eppendorf AG

Type	Capacity ml	Colour code	PK	Cat. No.
advanced® Adapter	25	red	1	9.283 162
advanced® Adapter	50	light grey	1	9.283 163
advanced® Adapter biopur®	25	red	7	9.283 164
advanced® Adapter biopur®	50	light grey	7	9.283 165
advanced® Rack for 8 Combitips			1	9.283 166



3 Pipette Tips, Eppendorf ViscoTip®

For highly viscous liquids from 200 to 14.000 mPa*s, e.g. glycerol, Tween 20, honey or oils.

Eppendorf AG

- 2 colour coded rings
- Continuous volume scale
- Automatic tip recognition in Multipette M4/E3(x)



Type	Capacity ml	Colour code	PK	Cat. No.
ViscoTip®	10	orange	100	9.283 134

1



1 Self-filling laboratory syringes Dosys™

Socorex



- Optimal hand balance and ergonomics
- Fast and reliable volume setting
- Excellent reproducibility
- Plunger tightness without O-ring
- High chemical resistance
- Fully autoclavable at 121°C/250°F
- Self-refilling automatic

Dosys™ basic 162/172

- Fill-by-fill (automatic) through needle or cannula
- Supplied without valve system
- Luer Lock nozzle

Package includes syringe, PVC protection sleeve and operating instructions.

Dosys™ classic 163/173

- Integrated valve system
- Luer Lock nozzle

Package includes syringe, one meter silicone feed tube, sinker, PVC protection sleeve, aspiration and vent cannulas, set of spare for valve, operating instructions.

Dosys™ premium 164/174

- Detachable valve system
- Enhanced corrosion resistance
- Luer Lock nozzle

Package includes syringe, one meter silicone feed tube, sinker, PVC protection sleeve, aspiration, vent and dosing cannulas, set of spare for valve, operating instructions.

Further Self-filling syringes available on request.

Type	Volume ml	Valve	With	PK	Cat. No.
Dosys™ basic 162	0,5 - 5	without	2-ring handle	1	6.229 740
Dosys™ classic 163	0,3 - 2	integrated	2-ring handle	1	6.206 201
Dosys™ premium 164	0,3 - 2	detachable	2-ring handle	1	6.204 472
Dosys™ premium 164	1 - 10	detachable	2-ring handle	1	6.224 207
Dosys™ basic 172	0,1 - 1	without	pistol grip	1	9.411 524
Dosys™ basic 172	0,3 - 2	without	pistol grip	1	9.411 525
Dosys™ basic 172	0,5 - 5	without	pistol grip	1	9.411 526
Dosys™ basic 172	1 - 10	without	pistol grip	1	9.411 527
Dosys™ classic 173	0,025 - 0,3	integrated	pistol grip	1	7.981 548
Dosys™ classic 173	0,1 - 0,5	integrated	pistol grip	1	6.266 515
Dosys™ classic 173	0,1 - 1	integrated	pistol grip	1	6.205 165
Dosys™ classic 173	0,5 - 5	integrated	pistol grip	1	6.231 686
Dosys™ classic 173	1 - 10	integrated	pistol grip	1	6.230 535
Dosys™ classic 173	5 - 20	integrated	pistol grip	1	7.630 775
Dosys™ premium 174	0,1 - 1	detachable	pistol grip	1	9.411 520
Dosys™ premium 174	0,3 - 2	detachable	pistol grip	1	9.411 521
Dosys™ premium 174	0,5 - 5	detachable	pistol grip	1	9.411 522
Dosys™ premium 174	1 - 10	detachable	pistol grip	1	9.411 523



1 Bottletop dispenser LLG-uniTOPDISPENS 2



The combination of a springless PTFE valve and **PTFE piston** with chemically resistant ETP O-ring enables dispensing of both organic reagents as well as bases, thus, eliminating the need to buy different dispensers for different applications. The improved design of the uniTOPDISPENS 2 bottle top dispenser including a **re-circulation valve** allows a smooth, precise and reliable bubble free dispensing without any loss of reagent. The specially designed bottle adaptor which permits a 360° rotation of the unit, the easy volume setting as well as the flexible delivery nozzle underline the user friendliness of this bottletop dispenser. Available in six volume ranges.

- Springless PTFE valve, PTFE piston with chemically resistant ETP O-ring enables **high chemical compatibility**
- Glass cylinder from borosilicate glass 3.3
- Re-circulation valve enables easy priming and bubble free dispensing
- Smooth, reproducible and effortless dispensing
- 360° rotation possible due to specially designed bottle adapter
- Flexible and adjustable delivery nozzle provides **dispensing angle flexibility** to the user
- Specially designed volume adjustment knob for quick and easy volume setting
- **The telescopic extractable intake tube can be easily adjusted to varying bottle heights**
- Nozzle cap reduces contact with air and prevents drying and dripping if the tip cover is attached
- Five bottle adaptors included (28 mm, 32 mm, 37 mm, 40 mm and 45 mm). Standard thread: 30 mm.
- Fully autoclavable at 121 °C, 15 psi for 10 to 15 min
- Individually calibrated in accordance with ISO 8655 standards and each unit is supplied with an individual calibration certificate
- You can find the appropriate compatibility list on www.llg-labware.com in the Downloads section.
- 3 years warranty



Description	Volume ml	Graduations ml	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	PK	Cat. No.
LLG-uniTOPDISPENS 2	0.25 - 2.5	0.05	0.6	0.2	1	6.282 275
LLG-uniTOPDISPENS 2	0.5 - 5	0.1	0.6	0.2	1	6.282 276
LLG-uniTOPDISPENS 2	1 - 10	0.2	0.6	0.2	1	6.282 277
LLG-uniTOPDISPENS 2	2.5 - 30	0.5	0.6	0.2	1	6.282 278
LLG-uniTOPDISPENS 2	5 - 60	1.0	0.6	0.2	1	6.282 279
LLG-uniTOPDISPENS 2	10 - 100	2.0	0.6	0.2	1	6.282 280

2 Bottletop dispenser LLG-uniTOPDISPENS with glass piston and clear glass cylinder

The LLG-uniTOPDISPENS is a **reasonably priced** bottle-top dispenser with **glass piston**. Available in 2 sizes (2-10 and 10-50 ml). Precise, reliable and robust. The high quality of the material used and the precision of the grinding ensures the perfect seal of the complete dispensing system. 3 years warranty.

- Precise and reliable volume setting
- Visible dosing procedure
- Valve block made of PP gives optimised protection of the glass made dosing cylinder
- Precise grinding of the glass piston into the glass cylinder forms a perfect seal
- Ergonomic finger guard
- Delivered with 2 PP-adapters GL 40 and 45
- With glass piston and clear glass cylinder
- You can find the appropriate compatibility list on www.llg-labware.com in the Downloads section.

Scope of supply: dispenser, 1 bottle adapter each 28 mm, 32 mm, 37 mm, 40 mm, 45 mm

Description	Volume ml	Graduations ml	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	PK	Cat. No.
LLG-uniTOPDISPENS	2 - 10	0.2	0.6	0.2	1	9.283 806
LLG-uniTOPDISPENS	10 - 50	1.0	0.6	0.2	1	9.283 808





1 Dispensers, VITLAB® SIMPLEX²



VITLAB

With variable volume and calibration mechanism.

- quick, easy and precise volume adjustment due to interior scalloped track and practical screw mechanism
- no drips after tube has been capped
- easy calibration adjustment
- high-quality materials (PTFE, PFA, FEP, borosilicate glass, platinum-iridium) ensure high chemical resistance against most acids, solvents and bases
- a positive displacement plunger with a PFA seal minimizes the crystallization of liquids and thus the clogging of the plunger
- easy to dismantle for cleaning, no tools necessary
- completely autoclavable at 121°C
- device can be rotated 360° on bottle
- DE-M marked
- with GL 45 thread
- with screwable discharge valve

Scope of supply: 3 respectively 5 threaded adapters*made of PP, 1 telescopic filling tube, 1 mounting tool, operation manual, quality certificate

Volume ml	Graduations ml	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	Neck thread GL	PK	Cat. No.
0.2 ... 2.0	0.05	0.5**	0.1	45	1	6.283 967
0.5 ... 5.0	0.10	0.5**	0.1	45	1	6.283 968
1.0 ... 10.0	0.20	0.5**	0.1	45	1	6.283 969
2.5 ... 25.0	0.50	0.5**	0.1	45	1	6.283 970
5.0 ... 50.0	1.00	0.5**	0.1	45	1	6.283 971
10.0 ... 100.0	1.00	0.5**	0.1	45	1	6.283 972

* Nominal volume 2 - 10 ml: with adapters GL 25, GL 28, GL 32, GL 38, S 40 and telescopic intake tube (length 125 - 240 mm).

Nominal volume 25 - 100 ml: with adapters GL 32, GL 38, S 40 and telescopic intake tube (length 170 - 330 mm).

**Accuracy and Coefficient of variation according to DIN EN ISO 8655-5.



2 Bottle top dispenser VITLAB® genius²



VITLAB

With recirculation valve and calibration mechanism.

- Quick, easy and precise volume adjustment due to interior scalloped track and practical screw mechanism
- Innovative recirculation valve avoids reagent waste
- No drips after tube has been capped
- Easy calibration adjustment
- High-quality materials (PTFE, PFA, FEP, borosilicate glass, platinum-iridium) ensure good chemical resistance to most acids, solvents and bases
- A positive displacement plunger with PFA seal minimizes the crystallization of liquids and therefore the possibility of the plunger jamming
- Easy to dismantle for cleaning, no tools necessary
- Completely autoclavable at 121 °C
- Can be rotated 360° on bottle
- Certificate of conformity according to DIN 12600 DE-M marked
- Margin of error according to DIN EN ISO 8655-5
- With recirculation valve and calibration mechanism
- With GL 45 thread
- With screwable discharge valve

Items supplied: 3 respectively 5 threaded adapters*made of PP (see chart), 1 telescopic filling tube, 1 mounting tool, operation manual, quality certificate stating all test values

Volume ml	Grad. ml	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	PK	Cat. No.
0.2 - 2	0.05	0.5**	0.1	1	6.283 976
0.5 - 5	0.10	0.5**	0.1	1	6.283 977
1 - 10	0.20	0.5**	0.1	1	6.283 978
2.5 - 25	0.50	0.5**	0.1	1	6.283 979
5 - 50	1	0.5**	0.1	1	6.283 980
10 - 100	1	0.5**	0.1	1	6.283 981

* Nominal volume 2 - 10 ml: with adapters GL 25, GL 28, GL 32, GL 38, S 40 and telescopic intake tube (length 125 - 240 mm).

Nominal volume 25 - 100 ml: with adapters GL 32, GL 38, S 40 and telescopic intake tube (length 170 - 330 mm).

**Accuracy and Coefficient of variation according to DIN EN ISO 8655-5

1 Dispensers, bottle-top, POLYFIX®

For dispensing of all chemicals, where polypropylene is resistant. With glass dispensing barrel. Valve block not detachable for safety reasons.

Poulten & Graf

- conformity-certified
- ergonomically designed plunger handle for comfortable operation
- user-friendly, volume setting with easy movement and rotatable fine adjustment
- PP valve block (GL32) with FIX adapter which aligns the dispenser on the bottle.

Supplied with 2 x PP bottle adapters (GL40 and GL45).

1



9.283 804

Description	Volume	Graduations	Accuracy	Precision	PK	Cat. No.
	ml	ml	max. vol. (± R%)	max. vol. (≤ CV%)		
with glass piston and clear glass cylinder*	2 - 10	0.2	0.6	0.2	1	9.283 800
with glass piston and clear glass cylinder*	10 - 50	1.0	0.6	0.2	1	9.283 810
with PTFE-coated piston and clear glass cylinder**	2 - 10	0.2	0.6	0.2	1	9.283 801
with PTFE-coated piston and clear glass cylinder**	10 - 50	1.0	0.6	0.2	1	9.283 802
with glass piston and amber dosing cylinder***	2 - 10	0.2	0.6	0.2	1	9.283 803
with glass piston and amber dosing cylinder***	10 - 50	1.0	0.6	0.2	1	9.283 804 1

* For dosing of aqueous media
 **For dosing of weak acids and bases
 ***For dispensing light sensitive liquids

2 Dispensers, bottle-top, FORTUNA® OPTIFIX® BASIC

Poulten & Graf



For problem-free dispensing of aqueous media and acids as well as solutions subject to crystallization. With solid, PTFE-sleeved dispensing piston, highly polished, 100 % corrosion-free, plastic-coated, precision glass cylinder (visible dispensing process). Black-graduated, dispensing cylinder. PTFE valve block (no metal springs to contaminate the dispensed liquid). With colour-coded handle inscriptions. Sizes 2 to 100 ml autoclavable (Please read the autoclaving instructions carefully before proceeding). Sizes 200 to 500 ml in autoclavable version only available on request.

Items supplied: Dispenser without reservoir bottle, PTFE suction and discharge tube and two PP bottle adapters (GL40 and GL45). Conformity-certified, with precision certificate.

2



Type	Volume	Graduations	Accuracy	Precision	PK	Cat. No.
	ml	ml	max. vol. (± R%)	max. vol. (≤ CV%)		
BASIC-27	0,5 - 2	0,1	0,6	0,2	1	9.287 902
BASIC-33	1 - 5	0,1	0,6	0,2	1	9.287 903
BASIC-38	2 - 10	0,2	0,6	0,2	1	9.287 904
BASIC-44	5 - 30	0,5	0,6	0,2	1	9.287 905
BASIC-48	10 - 50	1,0	0,6	0,2	1	9.287 906
BASIC-51	20 - 100	2,0	0,6	0,2	1	9.287 907
BASIC-53	40 - 200	5,0	0,6	0,2	1	9.287 908
BASIC-56*	60 - 300	5,0	0,6	0,2	1	9.287 909
BASIC-56**	60 - 300	5,0	0,6	0,2	1	6.237 320
BASIC-58*	100 - 500	5,0	0,6	0,2	1	9.287 951

* not included in ISO 8655/5
 **autoclavable



1



1 Dispensers, bottle-top, FORTUNA® OPTIFIX® SOLVENT

Poulsen & Graf



For organic solvents and liquid compounds that may swell PTFE. With glass dispensing barrel and precision glass piston. Barrel graduated in black. Visible dispensing. PTFE valve block (GL32). With colour-coded plunger handles. Autoclavable (Please read the autoclaving instructions carefully before proceeding).

Items supplied: Dispenser without reservoir bottle, PTFE suction and discharge tube and two PP bottle adapters (GL40 and GL45). Conformity-certified, with precision certificate.

Type	Volume ml	Graduations ml	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	PK	Cat. No.
SOLVENT-27	0,5 - 2	0,1	0,6	0,2	1	9.287 953
SOLVENT-33	1 - 5	0,1	0,6	0,2	1	9.287 954
SOLVENT-38	2 - 10	0,2	0,6	0,2	1	9.287 955
SOLVENT-44	5 - 30	0,5	0,6	0,2	1	9.287 956
SOLVENT-48	10 - 50	1,0	0,6	0,2	1	9.287 957
SOLVENT-51	20 - 100	2,0	0,6	0,2	1	9.287 958
SOLVENT-53	40 - 200	5,0	0,6	0,2	1	9.287 959
SOLVENT-56*	60 - 300	5,0	0,6	0,2	1	9.287 960
SOLVENT-58*	100 - 500	5,0	0,6	0,2	1	9.287 961

* in addition to ISO 8655

2



2 Dispensers, bottle-top, FORTUNA® OPTIFIX® SAFETY

Poulsen & Graf

For strong acids (excl. HF) and aggressive chemicals. Visible dispensing process, dispensing piston made of PTFE-sleeved, solid glass, with additional sealing lip at the end of the piston to prevent acid fumes and odours from escaping. No metal springs in the valve block (no contamination of the dispensed liquid). With colour-coded handle inscriptions.

Items supplied: Dispenser without reservoir bottle, 1 discharge tube, incl. 2 PTFE-adapters (GL 40+45), 1 PTFE suction tube.

Type	Volume ml	Grad. ml	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	PK	Cat. No.
Safety-27	0.5 - 2	0.1	0.6	0.2	1	9.287 962
Safety-33	1 - 5	0.1	0.6	0.2	1	9.287 963
Safety-38	2 - 10	0.2	0.6	0.2	1	9.287 964
Safety-44	5 - 30	0.5	0.6	0.2	1	9.287 965
Safety-48	10 - 50	1.0	0.6	0.2	1	9.287 966
Safety-51	20 - 100	2.0	0.6	0.2	1	9.287 967

3



3 Dispensers, bottle-top, FORTUNA® OPTIFIX® SAFETY S

Poulsen & Graf

Bottle-top dispensers for dispensing strong fuming acids and very aggressive liquids, with safety stopcock and additional safety valve in the ventilation tube, with PTFE-encased dispensing piston with sealing lip, FIX adaptor made of solid PTFE, no metal springs in the valve block (no contamination), comes with 2 x PTFE GL40/GL45 adapters and PTFE inlet tube.

Type	Volume ml	Grad. ml	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	PK	Cat. No.
Safety S-27	0.5 - 2	0.1	0.6	0.2	1	6.206 600
Safety S-33	1 - 5	0.1	0.6	0.2	1	6.227 942
Safety S-38	2 - 10	0.2	0.6	0.2	1	9.287 995
Safety S-44	5 - 30	0.5	0.6	0.2	1	9.287 996
Safety S-48	10 - 50	1.0	0.6	0.2	1	9.287 997
Safety S-51	20 - 100	2.0	0.6	0.2	1	9.287 998

4



4 Dispensers, bottle-top, FORTUNA UNIVERSAL® OPTIFIX® HF

Poulsen & Graf

With solid PTFE dispensing barrel and glass-cored, PTFE coated plunger with seal (prevents acid vapours escaping from the storage bottle). No metal springs in the valve block (no contamination).

Items supplied: Hydrofluoric acid dispenser without reservoir bottle, with PTFE valve block (GL32), PTFE suction and discharge tubes and two PTFE bottle adapters (GL40 and GL45).

Type	Volume ml	Graduations ml	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	PK	Cat. No.
HF-33	1 - 5	0.1	0.6	0.2	1	9.287 970
HF-38	2 - 10	0.2	0.6	0.2	1	9.287 968
HF-44	5 - 30	0.5	0.6	0.2	1	9.287 969
HF-48	10 - 50	1.0	0.6	0.2	1	6.241 198

1 Bottle-top dispensers Calibrex™ organo 525/Calibrex™ solutae 530

Calibrex *organo* 525 models include a ground glass plunger, best suited for organics, non-crystallizing acid and base solutions. Calibrex *solutae* 530 dispensers have a PFA coated plunger preventing plunger and barrel from seizing together. This enables trouble free distribution of salt solutions, weak and strong acids, as well as bases.

Socorex

- 45 mm base thread
- Integrated calibration system
- Autoclavable at 121°C fully assembled

Scope of delivery: Delivery jet and stopper, feed tube, 3 alternative adapters (25, 28, 32 mm for 1 and 2.5 ml versions; 28, 32, 40 mm for 5 and 10 ml version; 32, 38, 40 mm from 25 ml onwards), QC certificate and operating instructions

1



Type	Volume ml	Grad. ml	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	Recycle valve	PK	Cat. No.
Calibrex™ <i>solutae</i> 530	0,1 - 1	0.02	0.6	0.17	without	1	6.281 543
Calibrex™ <i>solutae</i> 530	0.25 - 2.	0.05	0.6	0.17	without	1	6.281 544
Calibrex™ <i>solutae</i> 530	0.5 - 5	0.1	0.6	0.1	without	1	6.281 545
Calibrex™ <i>solutae</i> 530	1 - 10	0.2	0.6	0.1	without	1	6.281 546
Calibrex™ <i>solutae</i> 530	2.5 - 25	0.5	0.6	0.1	without	1	9.411 565
Calibrex™ <i>solutae</i> 530	5 - 50	1.0	0.6	0.1	without	1	9.411 566
Calibrex™ <i>solutae</i> 530	10 - 100	1.0	0.6	0.1	without	1	6.258 446
Calibrex™ <i>solutae</i> 530	0.1 - 1	0.02	0.6	0.17	with	1	6.281 547
Calibrex™ <i>solutae</i> 530	0.25 - 2.5	0.05	0.6	0.17	with	1	6.281 548
Calibrex™ <i>solutae</i> 530	0.5 - 5	0.1	0.6	0.1	with	1	6.281 549
Calibrex™ <i>solutae</i> 530	1 - 10	0.2	0.6	0.1	with	1	6.281 550
Calibrex™ <i>solutae</i> 530	2.5 - 25	0.5	0.6	0.1	with	1	6.261 221
Calibrex™ <i>solutae</i> 530	5 - 50	1.0	0.6	0.1	with	1	6.261 222
Calibrex™ <i>solutae</i> 530	10 - 100	1.0	0.6	0.1	with	1	6.261 223
Calibrex™ <i>organo</i> 525	0,1 - 1	0.02	0.6	0.17	without	1	6.281 538
Calibrex™ <i>organo</i> 525	0.25 - 2.5	0.05	0.6	0.17	without	1	6.270 246
Calibrex™ <i>organo</i> 525	0.5 - 5	0.1	0.6	0.1	without	1	6.270 247
Calibrex™ <i>organo</i> 525	1 - 10	0.2	0.6	0.1	without	1	6.270 248
Calibrex™ <i>organo</i> 525	2.5 - 25	0.5	0.6	0.1	without	1	9.411 562
Calibrex™ <i>organo</i> 525	5 - 50	1.0	0.6	0.1	without	1	9.411 563
Calibrex™ <i>organo</i> 525	10 - 100	1.0	0.6	0.1	without	1	9.411 564
Calibrex™ <i>organo</i> 525	0.1 - 1	0.02	0.6	0.17	with	1	6.281 539
Calibrex™ <i>organo</i> 525	0.25 - 2.5	0.05	0.6	0.17	with	1	6.281 540
Calibrex™ <i>organo</i> 525	0.5 - 5	0.1	0.6	0.1	with	1	6.281 541
Calibrex™ <i>organo</i> 525	1 - 10	0.2	0.6	0.1	with	1	6.281 542
Calibrex™ <i>organo</i> 525	2.5 - 25	0.5	0.6	0.1	with	1	6.261 218
Calibrex™ <i>organo</i> 525	5 - 50	1.0	0.6	0.1	with	1	6.261 219
Calibrex™ <i>organo</i> 525	10 - 100	1.0	0.6	0.1	with	1	6.261 220
Calibrex™ digital 520	0.25 - 2.0					1	9.411 529
Calibrex™ digital 520	1 - 5					1	9.411 530
Calibrex™ digital 520	1 - 10					1	9.411 531



1



1 Dispensers, bottle-top, ceramus® classic

With ceramic pistons. High precision, bottle-top dispensers adjustable in fixed steps for the reproducible dispensing of liquids. Declaration of conformity acc. to DIN 12600. With patented, high-purity, alumino-ceramic pistons and highly polished, DURAN® glass cylinders, guaranteeing continual durability and precision.

- no surface abrasion
- no sticking due to plastic swelling
- no thermal expansion problems

Hirschmann

Ratchet adjustment mechanism prevents accidental adjustment of the set volume. When not in use the pistons can be locked and the delivery tubes capped to prevent loss of reagent. The glass cylinders are encased in plastic for added safety and have a window for viewing the contents. Autoclavable up to max. 121°C/2 bar.

- inlet and outlet valves are easily replaced
- fully supported delivery jet prevents 'side fling' of reagent
- screw-fixed, inlet suction tube
- High-grade materials (ECTFE, DURAN® glass, FEP) are used throughout.
- Discharge valves and valve seats consisting of high-purity aluminium oxide ceramic

Supplied with: complete with thread A 32 mm, 3 thread adapters (A 28, A 45, S 40), 1 screw-coupled suction tube, 1 discharge tube unit, one spanner for valve, with individual serial number and Single Calibration Report.

Volume ml	Grad. ml	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	PK	Cat. No.
0.2 - 1	0.05	0.6	0.2	1	9.287 831
0.4 - 2	0.05	0.6	0.2	1	9.287 832
1 - 5	0.10	0.6	0.2	1	9.287 833
2 - 10	0.25	0.6	0.2	1	9.287 834
5 - 30	0.50	0.6	0.2	1	9.287 835
10 - 60	1.00	0.6	0.2	1	9.287 836

2



2 Dispensers, bottle-top, ceramus®

New dispenser technology from Hirschmann laboratory apparatus, with ceramic pistons. ceramus® are a high-precision, bottle-top dispenser range for almost all liquids.

Hirschmann

- Environmentally-friendly, reagent-saving, recirculation valves
- Tough, ceramic pistons
- Simple, self-locking volume selection
- When not in use, pistons can be locked and delivery tubes capped to prevent loss of reagent.
- Fixed interval graduations give excellent reproducibility
- 45mm screw neck and adapters supplied allow use with a variety of reservoir bottles
- Smooth-action piston minimises operator fatigue during serial dispensing
- High-grade construction materials provide long operational life
- autoclavable at 121°C

Supplied with: ceramus® complete with thread adapters A 45mm, 3 thread adapters (A 32, S 40 Merck bottles and A 38), 1 screw-coupled suction tube, 1 discharge tube unit complete, 1 spanner for valve, with individual serial number and single calibration report.

Type	Volume ml	Grad. ml	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	PK	Cat. No.
Variable	0.2 - 1.0	0.05	0.6	0.2	1	9.287 800
Variable	0.4 - 2.0	0.05	0.6	0.2	1	9.287 801
Variable	1.0 - 5.0	0.1	0.6	0.2	1	9.287 802
Variable	2.0 - 10.0	0.25	0.6	0.2	1	9.287 803
Variable	5.0 - 30.0	0.5	0.6	0.2	1	9.287 804
Variable	10.0 - 60.0	1.0	0.6	0.2	1	9.287 805
Fixed	1.0	-	0.6	0.2	1	9.287 806
Fixed	2.0	-	0.6	0.2	1	9.287 807
Fixed	5.0	-	0.6	0.2	1	9.287 808
Fixed	10.0	-	0.6	0.2	1	9.287 809
Fixed	25.0	-	0.6	0.2	1	9.287 815
Fixed	50.0	-	0.6	0.2	1	9.287 816

Further accessories can be found in our online shop.

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1 Bottle-top dispensers Dispensette® S



The Dispensette® S bottle-top dispenser makes liquid dosing easy and secure.

- Discharge tube, with and without recirculation valve
- Valve system - tight sealing without additional sealing rings
- Fast venting through improved aerodynamics
- Minimal force needed to operate - especially with high-volume devices
- Secure volume fixing with analog slide
- 1 ml dispenser - available as digital and analog version
- Autoclavable (121 °C)
- Easy to calibrate and adjust in order to comply with ISO 9001 and GLP guidelines
- Easy to disassemble for cleaning
- Removable filling and exhaust valve with safety bulb (closes when discharge tube is not mounted)
- To allow the bottle label to face the user, the valve block can be rotated by 360 °
- Telescope filling tube easily adjusts to different bottle sizes
- DE-M marking
- Analog volume display
- Quickly adjustable dosing volume

Included items:

Bottletop dispensers Dispensette® S, DE-M marked and supplied with performance certificate, telescope filling tube, recirculation valve (optional), mounting tool and adapters made of PP.



2 Bottle-top dispenser Dispensette® Analog S

Red color code. Wide range of applications, ideal for dispensing aggressive reagents, e.g. concentrated bases and acids such as H₃PO₄, H₂SO₄ (except as HCl, HNO₃ and HF), saline solutions and a variety of organic solvents.

BRAND

Volume	Grad.	Accuracy	Precision	Recycle	Description	PK	Cat. No.
ml	ml	max. vol.	max. vol.	valve			
		(± R%)	(≤ CV%)				
0.1 - 1	0.02	0.6	0.2	without	Incl. performance certificate	1	9.284 380
0.1 - 1	0.02	0.6	0.2	with	Incl. performance certificate	1	9.284 381
0.2 - 2	0.05	0.5	0.1	without	Incl. performance certificate	1	9.284 459
0.2 - 2	0.05	0.5	0.1	with	Incl. performance certificate	1	9.284 462
0.5 - 5	0.10	0.5	0.1	without	Incl. performance certificate	1	9.284 384
0.5 - 5	0.10	0.5	0.1	with	Incl. performance certificate	1	9.284 385
1 - 10	0.20	0.5	0.1	without	Incl. performance certificate	1	9.284 386
1 - 10	0.20	0.5	0.1	with	Incl. performance certificate	1	9.284 387
1 - 10	0.20	0.5	0.1	with	Incl. DAKS calibration certificate	1	6.285 509
2.5 - 25	0.50	0.5	0.1	without	Incl. performance certificate	1	9.284 388
2.5 - 25	0.50	0.5	0.1	with	Incl. performance certificate	1	9.284 389
5 - 50	1.00	0.5	0.1	without	Incl. performance certificate	1	9.284 390
5 - 50	1.00	0.5	0.1	with	Incl. performance certificate	1	9.284 391
10 - 100	1.00	0.5	0.1	without	Incl. performance certificate	1	9.284 392
10 - 100	1.00	0.5	0.1	with	Incl. performance certificate	1	9.284 393
10 - 100	1.00	0.5	0.1	with	Incl. DAKS calibration certificate	1	6.291 624

1 Bottle-top dispenser Dispensette® S Fix

Red color code (applications see Dispensette® S Analog).
Further fixed volumes are available on request

BRAND



Volume	Accuracy max. vol.	Precision max. vol.	Recycle valve	Description	PK	Cat. No.
ml	(± R%)	(≤ CV%)				
1	0.6	0.2	without	Incl. performance certificate	1	9.284 394
1	0.6	0.2	with	Incl. performance certificate	1	9.284 395
2	0.5	0.1	without	Incl. performance certificate	1	9.284 396
2	0.5	0.1	with	Incl. performance certificate	1	9.284 397
5	0.5	0.1	without	Incl. performance certificate	1	9.284 398
5	0.5	0.1	with	Incl. performance certificate	1	9.284 399
10	0.5	0.1	without	Incl. performance certificate	1	9.284 402
10	0.5	0.1	with	Incl. performance certificate	1	9.284 456
10	0.5	0.1	with	Incl. DAkkS calibration certificate	1	6.285 291

2 Bottle-top dispenser Dispensette® Digital S

Red color code (applications see Dispensette® S Analog).
Especially easy to read digital display.

BRAND



Volume	Grad.	Accuracy max. vol.	Precision max. vol.	Recycle valve	Description	PK	Cat. No.
ml	ml	(± R%)	(≤ CV%)				
0.1 - 1	0.005	0.6	0.2	without	Incl. performance certificate	1	9.284 382
0.1 - 1	0.005	0.6	0.2	with	Incl. performance certificate	1	9.284 383
0.2 - 2	0.01	0.5	0.1	without	Incl. performance certificate	1	9.284 407
0.2 - 2	0.01	0.5	0.1	with	Incl. performance certificate	1	9.284 408
0.5 - 5	0.02	0.5	0.1	without	Incl. performance certificate	1	9.284 409
0.5 - 5	0.02	0.5	0.1	with	Incl. performance certificate	1	9.284 412
1 - 10	0.05	0.5	0.1	without	Incl. performance certificate	1	9.284 413
1 - 10	0.05	0.5	0.1	with	Incl. performance certificate	1	9.284 416
1 - 10	0.05	0.5	0.1	with	Incl. DAkkS calibration certificate	1	6.280 429
2.5 - 25	0.10	0.5	0.1	without	Incl. performance certificate	1	9.284 417
2.5 - 25	0.10	0.5	0.1	with	Incl. performance certificate	1	9.284 419
5 - 50	0.20	0.5	0.1	without	Incl. performance certificate	1	9.284 422
5 - 50	0.20	0.5	0.1	with	Incl. performance certificate	1	9.284 423



1 Bottle-top dispenser Dispensette® Organic Analog S

Yellow color code. Ideal for dispensing organic solvents, e.g., chlorinated and fluorinated hydrocarbons such as trichlorotrifluoroethane and methylene chloride, or concentrated acids such as HCl and HNO₃ (not HF) as well as trifluoroacetic acid (TFA), tetrahydrofuran (THF) and peroxides.

BRAND

Volume ml	Grad. ml	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	Recycle valve	Description	PK	Cat. No.
0.5 - 5	0.1	0.5	0.1	without	Incl. performance certificate	1	9.284 426
0.5 - 5	0.1	0.5	0.1	with	Incl. performance certificate	1	9.284 427
1 - 10	0.2	0.5	0.1	without	Incl. performance certificate	1	9.284 428
1 - 10	0.2	0.5	0.1	without	Incl. DAkkS calibration certificate	1	6.288 430
1 - 10	0.2	0.5	0.1	with	Incl. performance certificate	1	9.284 429
2.5 - 25	0.5	0.5	0.1	without	Incl. performance certificate	1	9.284 432
2.5 - 25	0.5	0.5	0.1	with	Incl. performance certificate	1	9.284 433
5 - 50	1.0	0.5	0.1	without	Incl. performance certificate	1	9.284 436
5 - 50	1.0	0.5	0.1	with	Incl. performance certificate	1	9.284 437
10 - 100	1.0	0.5	0.1	without	Incl. performance certificate	1	9.284 438
10 - 100	1.0	0.5	0.1	with	Incl. performance certificate	1	9.284 439



2 Bottle-top dispenser Dispensette® Organic Fix S

Color code yellow (applications see Dispensette® S Organic Analog). Further fixed volumes are available on request.

BRAND

Volume ml	Grad. ml	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	Recycle valve	PK	Cat. No.
5	-	0.5	0.1	without	1	9.284 442
5	-	0.5	0.1	with	1	9.284 443
10	-	0.5	0.1	without	1	9.284 446
10	-	0.5	0.1	with	1	9.284 447



3 Bottle-top dispenser Dispensette® Organic Digital S

Yellow color code (applications see Dispensette® S Organic Analog). Especially easy to read digital display

BRAND

Volume ml	Grad. ml	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	Recycle valve	PK	Cat. No.
0.5 - 5	0.02	0.5	0.1	without	1	6.269 500
0.5 - 5	0.02	0.5	0.1	with	1	6.269 501
1 - 10	0.05	0.5	0.1	without	1	6.269 502
1 - 10	0.05	0.5	0.1	with	1	6.269 503
2.5 - 25	0.1	0.5	0.1	without	1	6.269 504
2.5 - 25	0.1	0.5	0.1	with	1	6.269 505
5 - 50	0.2	0.5	0.1	without	1	6.269 506
5 - 50	0.2	0.5	0.1	with	1	6.269 507

1 Bottle-top dispenser Dispensette® S Trace Analysis Analog

Dispensette® S Trace Analysis is ideal for precise volume dosing of high purity media for trace analysis. Can be used as hydrofluoric acid dispenser with Pt/Ir valve.

BRAND

Included items: Bottle-top dispenser Dispensette® S TA, DE-M marked and supplied with performance certificate, telescope filling tube, recirculation valve (optional), mounting tool and bottle adapters GL 28/S 28 (ETFE), GL 32 (ETFE) and S40 (PTFE), operating manual.

Volume	Grad.	Accuracy max. vol.	Precision max. vol.	Valve spring	Recycle valve	PK	Cat. No.
ml	ml	(± R%)	(≤ CV%)				
1 - 10	0.2	0.5	0.1	Pt / Ir	without	1	9.284 452
1 - 10	0.2	0.5	0.1	Pt / Ir	with	1	9.284 453
1 - 10	0.2	0.5	0.1	Tantalum	without	1	9.284 457
1 - 10	0.2	0.5	0.1	Tantalum	with	1	9.284 458



2 Bottle-top dispensers, seripettor®/seripettor® pro

The economy dispensers for routine dispensing.

BRAND

The seripettor® and seripettor® pro are innovative bottle-top dispensers with a special design. A lifting spring provides automatic filling. When the piston seal is worn out, the entire dispensing unit can be exchanged by the user rapidly and easily, without tools. Eliminating expensive repairs!

- low-cost replaceable dispensing cartridge with wiping seal. One spare dispensing cartridge included.
- semi-automatic dispensing. The spring loaded piston refills the cylinder after dispensing.
- volume setting. Toothed setting track allows quick and precise adjustment of desired volume.
- disassembles without tools. All parts can be replaced quickly. The innovative design of seripettor®/seripettor® pro makes cleaning and maintenance easy
- fits most bottles

seripettor®

For dispensing alkaline, buffer and vitamin solutions, as well as culture media, e.g. agar nutrient medium, up to 60 °C.

seripettor® pro

Broader scope of application compared to the seripettor®; for dispensing many acidic, alkaline and saline solutions, and solvents.

Scope of supply: Discharge tube, filling tube, spare dispensing cartridge and adapters, PP (GL 45/32, GL 45/S40 and GL 45/38).



Type	Volume	Grad.	Accuracy max. vol.	Precision max. vol.	PK	Cat. No.
	ml	ml	(± R%)	(≤ CV%)		
seripettor®	0.2 - 2	0.04	1.2	0.2	1	9.284 849
seripettor®	1 - 10	0.2	1.2	0.2	1	9.284 850
seripettor®	2.5 - 25	0.5	1.2	0.2	1	9.284 851
seripettor® pro	0.2 - 2	0.04	1.2	0.2	1	9.284 854
seripettor® pro	1 - 10	0.2	1.2	0.2	1	9.284 852
seripettor® pro	2.5 - 25	0.5	1.2	0.2	1	9.284 853

End test values relate to the nominal values (= max. volume) printed on the dispenser when the temperature (20 °C) of the device, environment and distilled water is uniform, and when operated smoothly.

Suitable accessories can be found in our online shop.



1

1 Bottle-top dispenser opus®

opus® dispenser for motor-powered dispensing directly from the reagent bottle. In conjunction with the "dispenser" touch screen containing the complete electronic control, it represents an extremely sensitive precision dispensing instrument that guarantees excellent degrees of accuracy (e.g. during serial dispensing). With USB interface for linking to a PC.

Hirschmann

Outstanding features:

- Simple menu-guided user instructions with tab cards on an external coloured TFT touch screen. Screen legibility is also guaranteed in even strong daylight
- Versatile application options, thanks to superior quality materials (ECTFE, DURAN glass, FEP); media-conveying components are suitable for steam sterilisation (121°C)
- Configuration of up to 9999 dispensing repetitions possible, intervals of up to 9999 seconds can be selected between individual dispensing operations
- Stepper function: Dispensing of several volume dosages (differing volumes possible) from a single cylinder charge (10ml, 20ml or 50ml)
- Individual problem-free calibration options
- Individual adaptation options, e.g. language selection (DE, UK, FR, ES), specification of charging and dispensing velocity in ml/sec (option for coordination with medium viscosity)
- Method memory, capacity for up to 9 different settings (e.g. volume, velocity, cycle duration, etc.)
- Accessories: pedal switch for triggering dispensing, USB interface connection cable 750, 2000 or 5000mm long touch screen connection cable, special lengths available, silicone system platform with bottle holder, batteries available for selective battery operation
- Discharge valves and valve seats consisting of high-purity aluminium oxide ceramic
- Saving of last setting ensures speedy further processing when the instrument is reactivated
- Declaration of conformity acc. to DIN 12600
- Quality assurance in compliance with DIN EN ISO 8655
- Power supply 100-240V, with EU, UK, US plug

Supplied with: opus® dispenser, complete with thread A 45 mm, 3 adapters (A 32, A 38 and S 40 Merck bottles), 1 screw coupled suction tube, 1 dispensing discharge unit and 1 power supply, 1 brown light protection window, touch screen module "dispenser", Data Power Cable 0.75 m, instruction manual, single calibration report.



Description	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	PK	Cat. No.
Volumen 10 ml	0.6	0.2	1	9.287 874
Volumen 20 ml	0.6	0.2	1	9.287 872
Volumen 50 ml	0.6	0.2	1	9.287 873

Further accessories can be found in our online shop.

2

2 Dispenser/bottle-top flasks, amber soda-lime glass

Available ethylene-acrylate-coated or uncoated. The coating envelops the glass bottle like a protection skin. Should the bottle break, the splintering hazards are reduced considerably. To preserve the coating, do not clean at temperatures exceeding 60 °C.

BRAND

- PP screw cap
- LDPE pouring ring
- Space-saving square design
- The maximum operating temperature for coated bottles is 80 °C

Type	Nominal capacity ml	Width mm	Height mm	Neck thread GL	PK	Cat. No.
Ethylene-acrylate coated	100	50	125	32	1	6.073 469
Ethylene-acrylate coated	250	65	160	32	1	6.701 658
Ethylene-acrylate coated	500	80	195	32	1	6.701 659
Ethylene-acrylate coated	1000	95	230	45	1	7.604 011
Ethylene-acrylate coated	2500 *	140	300	45	1	7.510 519
Uncoated	100	50	125	32	1	9.284 541
Uncoated	250	65	160	32	1	9.284 542
Uncoated	500	80	195	32	1	9.284 543
Uncoated	1000	95	230	45	1	9.284 544
Uncoated	2500 *	140	300	45	1	9.284 545

* Cylindrical design

➔ More bottles please see page 62

1 Burettes, with straight stopcock, DURAN®, class AS

Schellbach line for easier reading, declaration of conformity acc. to DIN 12600, with dated batch identification, high-contrast blue graduations, main point ring graduation at major subdivisions, EX (TD) calibrated, acc. to DIN EN ISO 385. Scale length approx. 500mm. Hirschmann
 For those products batch calibration reports, which are free of charge, can be generated and printed on www.hirschmannlab.de. Additional single calibration reports or DAkkS certificates (former DKD calibration reports) are available.

Capacity	Grad.	Tolerance	Stopcock with	PK	Cat. No.
ml	ml	± ml			
10	0.02	0.02	Glass key	1	9.270 161
25	0.05	0.03	Glass key	1	9.270 162
50	0.1	0.05	Glass key	1	9.270 163
10	0.02	0.02	PTFE spindle	1	9.270 164
25	0.05	0.03	PTFE spindle	1	9.270 165
50	0.1	0.05	PTFE spindle	1	9.270 166
10	0.02	0.02	PTFE key	1	9.270 167
25	0.05	0.03	PTFE key	1	9.270 168
50	0.1	0.05	PTFE key	1	9.270 169



2 Burettes, with straight stopcock, borosilicate glass 3.3, Class AS

All BLAUBRAND® burettes are supplied with batch number and an accompanying batch certificate in the original packaging. On request, they are also available with an individual certificate, USP individual certificate or DAkkS calibration certificate. Batch and individual certificates can also be downloaded at the supplier's website. BRAND

- BLAUBRAND®
- DIN EN ISO 385
- DE-M marking
- Marks and inscriptions in high contrast blue enamel
- Ring graduations at major subdivisions
- Schellbach stripe
- Calibrated to deliver (TD, EX)

Nominal capacity	Type	Grad.	Stopcock with	PK	Cat. No.
ml		ml			
10	Incl. batch certificate	0,02	PTFE spindle	1	9.270 115
25	Incl. batch certificate	0,05	PTFE spindle	1	9.270 116
50	Incl. batch certificate	0,1	PTFE spindle	1	9.270 117
10	Incl. DAkkS calibration certificate	0,02	PTFE spindle	1	6.259 806
25	Incl. DAkkS calibration certificate	0,05	PTFE spindle	1	6.253 878
50	Incl. DAkkS calibration certificate	0,1	PTFE spindle	1	6.253 559
25	Incl. individual certificate	0,05	PTFE spindle	1	6.235 293



3 Burettes, with straight stopcock, borosilicate glass 3.3, class AS

With class AS, conformity certified, with batch identification, blue graduations, DIN EN ISO 385. PTFE spindle. ISOLAB

Description	Capacity	Grad.	Tolerance	PK	Cat. No.
	ml	ml	± ml		
with Schellbach line	10	0.02	0.020	1	4.008 311
with Schellbach line	25	0.05	0.030	1	9.270 100
with Schellbach line	50	0.10	0.050	1	9.270 101
without Schellbach line	10	0.02	0.020	1	9.270 102
without Schellbach line	25	0.05	0.030	1	9.270 103
without Schellbach line	50	0.10	0.050	1	9.270 104





1 Burette with straight standard ground stopcock, DURAN®, class AS

The original DURAN® burettes are manufactured from chemically highly resistant borosilicate glass 3.3. Thanks to the precise scale, they are ideal for titration. Calibration is based on the released volume ("Ex") at a + 20°C reference temperature. This means the fluid quantity released can be taken exactly from the scale, as the liquid adhesion to the glass is taken into account in the calibration. Volume content tolerances conform to DIN and ISO accuracy limits. From now on the approved DURAN® burettes are also available with PTFE keys. Unlike the glass keys, the PTFE keys need not be greased, which makes work in the laboratory easier.

DWK Life Sciences

- Available in three sizes, the right burette for each application
- Proven DURAN® properties
- With Schellbach stripe and main graduations as circular divisions
- Conforms to ISO 385
- Autoclavable
- Corresponds to USP/EP and JP guidelines

Capacity	Grad.	Tolerance	Height	Stopcock with	PK	Cat. No.
ml	ml	± ml	mm			
10	0.02	0.02	750	Glass key	1	7.022 042
25	0.05	0.03	750	Glass key	1	7.022 043
50	0.1	0.05	750	Glass key	1	7.022 044
100	0.2	0.1	750	Glass key	1	9.270 925
10	0.02	0.02	750	PTFE key	1	9.270 921
25	0.05	0.03	750	PTFE key	1	9.270 922
50	0.1	0.05	750	PTFE key	1	9.270 923
100	0.2	0.1	750	PTFE key	1	9.270 924

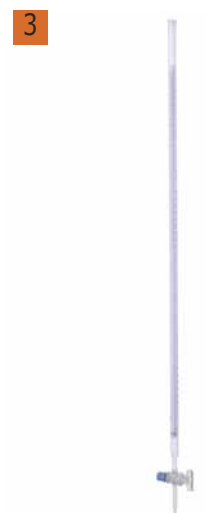


2 Burettes, with lateral stopcock, DURAN®, class AS

With Schellbach stripe. EX (TD) calibrated. With dated batch identification. Declaration of conformity acc. to DIN 12600. High-contrast blue graduation for easier reading. Main point ring graduation, lateral stopcock with glass key or with PTFE-Spindle, DIN EN ISO 385. Scale length 500mm. For those products, batch calibration reports, which are free of charge, can be generated and printed on www.hirschmannlab.com. Additional single calibration reports or DAkkS certificates (former DKD calibration reports) are available.

Hirschmann

Capacity	Grad.	Tolerance	Stopcock with	PK	Cat. No.
ml	ml	± ml			
10	0.02	0.02	Glass key	1	9.270 155
25	0.05	0.03	Glass key	1	9.270 156
50	0.1	0.05	Glass key	1	9.270 157
10	0.02	0.02	PTFE spindle	1	9.270 158
25	0.05	0.03	PTFE spindle	1	9.270 159
50	0.1	0.05	PTFE spindle	1	9.270 160



3 Burettes with straight glass stopcock, DURAN®, Class B

Blue graduated, with line graduation and Schellbach stripe. adjusted to EX, according to DIN EN ISO 385, scale length approx. 500 mm.

Hirschmann

Capacity	Grad.	Tolerance	PK	Cat. No.
ml	ml	± ml		
10	0.02	0.03	1	6.224 373
25	0.05	0.045	1	7.511 170
50	0.1	0.075	1	6.803 354

1 Burettes, with lateral stopcock, borosilicate glass 3.3, Class AS

All BLAUBRAND® burettes are supplied with batch number and an accompanying batch certificate in the original packaging. On request, they are also available with an individual certificate, USP individual certificate or DAkkS calibration certificate. Batch and individual certificates can also be downloaded at the supplier's website.

BRAND

- BLAUBRAND®
- DIN EN ISO 385
- DE-M marking
- Graduations and inscriptions in high contrast blue enamel
- With Schellbach stripe
- Calibrated to deliver (EX)

Nominal capacity ml	Type	Grad. ml	Tolerance ± ml	Stopcock with	Length mm	PK	Cat. No.
10	Incl. batch certificate	0.02	0.02	PTFE spindle	800	1	9.270 144
25	Incl. batch certificate	0.05	0.03	PTFE spindle	800	1	9.270 147
50	Incl. batch certificate	0.1	0.05	PTFE spindle	800	1	9.270 148
10	Incl. USP certificate	0.02	0.02	PTFE spindle	800	1	6.272 397
25	Incl. USP certificate	0.05	0.03	PTFE spindle	800	1	7.673 666
50	Incl. USP certificate	0.1	0.05	PTFE spindle	800	1	7.673 667
50	Incl. DAkkS calibration certificate	0.1	0.05	PTFE spindle	800	1	6.254 839

1



2 Compact Burette, Boro 3.3, class AS, DE-M marking

BLAUBRAND®, DE-M marking, removable PTFE stopcock. DIN EN ISO 385. Calibrated to deliver (TD, Ex).

Scope of supply: Burette tube with Schellbach stripe, stopcock with precision tip. Incl. one batch certificate.

Capacity ml	Grad. ml	Length mm	Tolerance ± ml	PK	Cat. No.
10	0.02	795	0.02	1	4.000 014
25	0.05	800	0.03	1	7.617 437
50	0.1	800	0.05	1	4.000 015

2



3 Compact burettes, borosilicate glass 3.3, class AS

NEW

BRAND

BLAUBRAND®, Amber glass. Fast to dismantle and easy to clean. All individual components are replaceable. All BLAUBRAND® burettes are delivered with batch number and enclosed one batch certificate per packing unit of the manufacturer. On demand also available with individual certificate, USP Individual certificate or DAkkS calibration certificate.

- With PTFE stopcock
- DIN EN ISO 385
- DE-M marking
- Schellbach stripe
- Calibrated to deliver (TD, Ex)

Nominal capacity ml	Grad. ml	Tolerance ± ml	PK	Cat. No.
10	0.02		1	4.668 796
25	0.05	0.03	1	4.668 797
50	0.1	0.05	1	4.668 798

3



4 Micro burettes with straight stopcock, Bang pattern, borosilicate glass 3.3, Class AS

BLAUBRAND®, class AS, DE-M marking. Boro 3.3. DIN EN ISO 385. Calibrated to deliver (TD, EX).

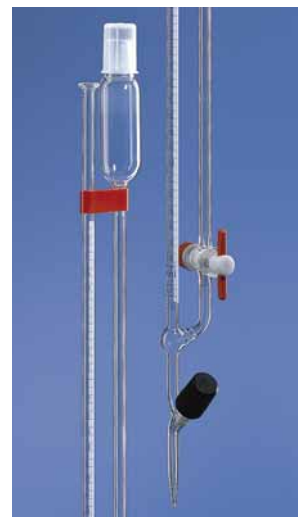
BRAND

Schellbach stripe. With needle valve stopcock with PTFE spindle (PTFE key in intermediate stopcock). All BLAUBRAND® burettes are delivered with batch number and one batch certificate included per manufacturer's pack. Also available with individual works, USP or DAkkS (former DKD) calibration certificate, please enquire. The batch certificate is also available to download from the manufacturer's website.

Capacity ml	Grad. ml	Tolerance ± ml	Stopcock with	PK	Cat. No.
2	0.01	0.01	PTFE spindle	1	7.018 361
5	0.01	0.01	PTFE spindle	1	7.018 362
10	0.02	0.02	PTFE spindle	1	7.018 363
2	0.01	0.01	PTFE spindle *	1	9.271 235
5	0.01	0.01	PTFE spindle *	1	9.271 237
10	0.02	0.02	PTFE spindle *	1	7.018 365

* with lateral stopcock

4



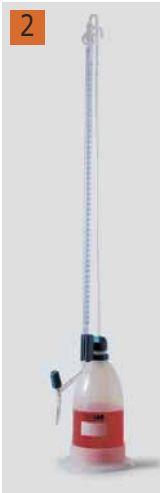
1


1 Automatic burettes with splinter protection, Schilling pattern, borosilicate glass 3.3

Burette according to Dr. Schilling with splinter protection, with Schellbach stripes, automatic zero point extraction and Bürkle dosing device. The glass burette is covered with a plastic sheet which increases the tensile strength and serves as splinter protection. The probability that the burette breaks is reduced compared to conventional burettes and even in case the burette breaks, no dangerous splinters will be produced. The dosing device allows precise dosage via the pushbutton or via the micro-screw as well as precise dispensing via a fine spout tip. *Bürkle*

- With splinter protection
- Adjusted to Ex
- Shatterproof, resistant to chemicals
- Exact spout tip, fine droplet formation
- Parts in contact with the medium: PE, natural rubber, PP, Borosilicate glass

Capacity	Grad.	Tolerance	Height	PK	Cat. No.
ml	ml	± ml	mm		
15	0.1	0.045	520	1	6.280 403
25	0.1	0.045	650	1	6.280 404
50	0.1	0.075	920	1	6.280 405

2

3


2 3 Automatic burettes, schilling pattern, borosilicate glass 3.3/LDPE

- Described as automatic burettes with fast titration and practical usage. *ISOLAB*
- Especially suitable for field analysis where there is a risk of breaking.
- The entire system consists of a burette tubing with automatic zeroing system together with a valve stopcock, a reservoir bottle and a bottle stand.
- Rapid filling by squeezing the bottle and fast titration by valve stopcock
- Inscriptions and graduations are printed either with blue enamel or with white enamel which is specially designed for glass use.
- Clear burettes are manufactured with schellbach stripe.
- Amber burettes are manufactured without schellbach stripe.
- 10ml burette has a polyethylene reservoir bottle of 500ml volume whereas 25 and 50ml burettes are used with bottles of 1000ml volume.

Description	Capacity	Grad.	Tolerance	PK	Cat. No.
	ml	ml	± ml		
clear glass, schellbach, blue graduated	10	0,05	0,030	1	4.008 314
clear glass, schellbach, blue graduated	25	0,10	0,050	1	6.241 904
clear glass, schellbach, blue graduated	50	0,10	0,050	1	4.008 315
amber, without schellbach, white graduated	10	0,05	0,030	1	4.008 316
amber, without schellbach, white graduated	25	0,10	0,050	1	4.008 317
amber, without schellbach, white graduated	50	0,10	0,050	1	4.008 318

4


4 Automatic burettes acc. to Schilling pattern, blue graduation, DURAN®

Fast flow burette with 500ml plastic reservoir bottle (up to 10ml) or 1000ml (up to 15ml). *Hirschmann*
Schellbach stripe and graduation in high contrast blue enamel, scale length approx. 330mm.

Capacity	Grad.	Tolerance	Bottle size	Scale length	PK	Cat. No.
ml	ml	± ml	ml	approx. mm		
5	0.05	0.03	500	330	1	6.070 009
10	0.05	0.045	500	330	1	7.510 426
15	0.1	0.045	1000	330	1	6.223 256
25	0.1	0.075	1000	330	1	7.510 427
50	0.1	0.075	1000	550	1	6.070 072

1 Automatic burettes, glass, Schilling pattern, borosilicate glass 3.3/HDPE, class B

SILBERBRAND. Tolerances to class B, DIN EN ISO 385. Borosilicate glass 3.3 burette. BRAND
 PVC filling tube and silicone outlet tubing. HDPE reservoir bottle with HDPE base.
 Brass/PP micrometer screw. Graduations and inscriptions are in highly contrasting black enamel.
 With Schellbach stripes. Squeezing of bottle allows rapid filling. Fine titration is easy using the micrometer screw.
 Coarse titration is achieved by removal of the micrometer screw and using the push button. Calibrated to deliver (EX).

Capacity	Grad.	Tolerance	Capacity	Height	PK	Cat. No.
ml	ml	± ml	ml	mm		
10*	0.05	0.05	500	530	1	9.271 053
15*	0.1	0.08	500	510	1	9.271 055
25*	0.1	0.08	1000	620	1	9.271 056
50*	0.1	0.1	1000	830	1	9.271 058
25* **	0.1	0.10	100	650	1	7.981 360
50**	0.1	0.1	1000	900	1	6.239 724

* Narrower divisions

**amber, borosilicate glass 5.4



2 Automatic burettes, Schilling pattern, borosilicate glass 3.3, class B

Conformity with DIN ISO 384. Class B. With easily readable, black scaling. Calibrated to deliver, EX. VITLAB
 Automatic zeroing. The burette stopcock is made of high quality plastic. Its PTFE key turns easily and allows fine titration. Special protection against breakage if the apparatus gets knocked over: A small bumper has been attached to the upper end of the upright measuring tube. This feature reduces the chance of breakage.

Materials: burette of borosilicate glass 3.3, burette made of amber glass for light sensitive substances, PP filling tube, PTFE burette stopcock, PMP titration tip, LDPE reservoir bottle.

Type

[1] With plastic coating, with Schellbach stripes (blue/white)

[2] Without plastic coating, with Schellbach stripes (blue/white)

[3] Amber glass, without plastic coating, without Schellbach stripes

Bottle capacity: 1000 ml
 Height: 900 mm

Type	Burette capacity		Grad.	Tolerance	PK	Cat. No.
	ml	ml				
[1]	25	0.05	0.05		1	9.271 082
[1]	50	0.10	0.10		1	9.271 084
[2]	25	0.05	0.05		1	9.271 085
[2]	50	0.10	0.10		1	9.271 086
[3]	25	0.05	0.05		1	9.271 087
[3]	50	0.10	0.10		1	9.271 088



3 4 Automatic burettes, borosilicate glass 3.3, class AS

- Manufactured from pre-vacuum calibrated borosilicate glass. They meet the highest quality standards according to DIN EN ISO 385 ISOLAB
- Permanent quality control through all steps eliminates possible deviations from nominal values
- Calibrated to deliver (Ex) and the tolerances are according to DIN/ISO Class "AS" standards
- Conformity ("DE-M") certified, with a batch number printed on the body. Batch certificate can be downloaded from the suppliers website
- Supplied with an automatic zeroing system, VALVE stopcock and also an intermediate PTFE stopcock to recirculate the remaining liquid
- Clear burettes are manufactured with schellbach stripe
- Inscriptions and graduations are printed with special blue enamel. For amber burettes, white enamel is used to maximise visibility and durability

Glass bottle - Please order separately.



Description	Capacity		Grad.	Tolerance	Glass	Graduations	PK	Cat. No.
	ml	ml						
schellbach	10	0.02	0.020	clear	blue graduated		1	4.008 312
schellbach	25	0.05	0.030	clear	blue graduated		1	6.241 216
schellbach	50	0.10	0.050	clear	blue graduated		1	6.237 627
without schellbach	10	0.02	0.020	amber	white graduated		1	6.238 473
without schellbach	25	0.05	0.030	amber	white graduated		1	6.242 463
without schellbach	50	0.10	0.050	amber	white graduated		1	6.241 116



4.668 800

Compact-Automatic burette, amber glass with bottle, class AS, BLAUBRAND®



Fast to dismantle and easy to clean. All individual components are replaceable.
 All BLAUBRAND® automatic burettes are supplied with a batch number and an accompanying batch certificate in the original packaging. On request, they are also available with an individual certificate, USP individual certificate or DAKKS calibration certificate.

BRAND

- With PTFE stopcock
- DIN EN ISO 385
- DE-M marking
- Calibrated to deliver (TD, Ex)

Nominal capacity ml	Grad. ml	Tolerance ± ml	Description	PK	Cat. No.
10	0.02	0.02	With PE bottle	1	4.668 800 1
50	0.1	0.05	With PE bottle	1	4.668 802
10	0.02	0.02	With glass bottle	1	4.668 803
25	0.05	0.03	With glass bottle	1	4.668 804
50	0.1	0.05	With glass bottle	1	4.668 805

2



2 Automatic burettes acc. Pellet, without intermediate stopcock, class AS, DURAN®

Lateral PTFE-spindle without intermediate stopcock. Main point ring graduation. Schellbach stripe. With dated batch identification. Declaration of conformity acc. to DIN 12600. Graduation in high-contrast blue enamel, acc. to DIN EN ISO 385. Incl. 2L clear glass bottle. Scale length approx. 500mm.

Hirschmann

For those products, batch calibration reports, which are free of charge, can be generated and printed on www.hirschmannlab.com. Additional single calibration reports or DAKKS certificates (former DKD calibration reports) are available.

Capacity ml	Grad. ml	Tolerance ± ml	PK	Cat. No.
10	0.02	0.02	1	6.079 718
25	0.05	0.03	1	7.630 409
50	0.1	0.05	1	9.270 785

3



3 Automatic burettes acc. Pellet, with stopcock, class AS, DURAN®

Lateral glass stopcock and intermediate stopcock. Scale length approx. 500mm. Main point ring graduation. Schellbach stripe. With dated batch identification. Declaration of conformity acc. to DIN 12600. Graduation in high-contrast blue enamel, acc. to DIN EN ISO 385. Incl. 2 l clear glass bottle. For those products, batch calibration reports, which are free of charge, can be generated and printed on www.hirschmannlab.com. Additional single calibration reports or DAKKS certificates (former DKD calibration reports) are available.

Hirschmann

Capacity ml	Grad. ml	Tolerance ± ml	PK	Cat. No.
10	0.02	0.02	1	6.079 157
25	0.05	0.03	1	6.056 580
50	0.1	0.05	1	6.079 156

4



4 Automatic burettes acc. Pellet, with PTFE-spindle and intermediate stopcock, class AS, DURAN®

Lateral PTFE-spindle and intermediate stopcock. Scale length approx. 500mm. Main point ring graduation. Schellbach stripe. With dated batch identification. Declaration of conformity acc. to DIN 12600. Graduation in high-contrast blue enamel, acc. to DIN EN ISO 385. Incl. 2 l clear glass bottle. For those products, batch calibration reports, which are free of charge, can be generated and printed on www.hirschmannlab.com. Additional single calibration reports or DAKKS certificates (former DKD calibration reports) are available.

Hirschmann

Capacity ml	Grad. ml	Tolerance ± ml	PK	Cat. No.
10	0.02	0.02	1	6.228 424
25	0.05	0.03	1	6.228 425
50	0.1	0.05	1	9.270 780

1 Automatic burettes, Pellet pattern, borosilicate glass 3.3, Class AS, with stopcock

BLAUBRAND®. Class AS, to DIN EN ISO 385. Boro 3.3. With intermediate stopcock. DE-M marking. *BRAND*
 With batch number. Graduations and inscriptions in highly contrasting blue enamel. With Schellbach stripes.
 Intermediate stopcock allows residual reagent in the burette after titration to be recycled into the reservoir.
 Automatic zero point setting. Calibrated to deliver (EX). Choice of models, either with needle-valve stopcock with PTFE spindle (intermediate stopcock with PTFE-key) or with NS glass stopcock (intermediate stopcock with glass key).

Complete with 2 litre, soda-lime glass reservoir (160mm dia. x 200mm height, with 29/32 ground glass neck).
 Overall height with bottle approx. 1m. All BLAUBRAND® burettes are delivered with batch number and one batch certificate included per pack. Also available with individual works, USP or DAkkS (former DKD) calibration certificate, please enquire. The batch certificate is also available to download from the manufacturer's website.

Capacity	Grad.	Tolerance	Stopcock	PK	Cat. No.
ml	ml	± ml			
10	0.02	0.02	PTFE	1	9.270 764
25	0.05	0.03	PTFE	1	9.270 767
50	0.1	0.05	PTFE	1	9.270 768

**2** Automatic burettes, Pellet pattern, borosilicate glass 3.3, with stopcock, Class AS, without bottle

BLAUBRAND®. Class AS, to DIN EN ISO 385. Boro 3.3. With intermediate stopcock. DE-M marking. *BRAND*
 With batch number. Graduations and inscriptions in highly contrasting blue enamel. With Schellbach stripes.
 Intermediate stopcock allows residual reagent in the burette after titration to be recycled into the reservoir.
 Automatic zero point setting. Calibrated to deliver (EX). Choice of models, either with needle-valve stopcock with PTFE spindle (intermediate stopcock with PTFE-key) or with NS glass stopcock (intermediate stopcock with glass key).
 All BLAUBRAND® burettes are delivered with batch number and one batch certificate included per pack. Also available with individual works, USP or DAkkS (former DKD) calibration certificate, please enquire. The batch certificate is also available to download from the manufacturer's website.

Capacity	Grad.	Tolerance	Stopcock	PK	Cat. No.
ml	ml	± ml			
10	0.02	0.02	PTFE	1	7.609 930
25	0.05	0.03	PTFE	1	7.602 941
50	0.1	0.05	PTFE	1	7.631 635

**3** Automatic burettes, Pellet pattern, borosilicate glass 3.3, class B, without stopcock

SILBERBRAND, class B. Boro 3.3. DIN EN ISO 385. Calibrated to deliver (TD, EX). *BRAND*
 Schellbach stripe. With needle-valve stopcock with PTFE spindle. Automatic zeroing.
 Total height approx. 1 m incl. 2000 ml bottle (soda-lime glass).

Description	Capacity	Grad.	Tolerance	PK	Cat. No.
	ml	ml	± ml		
with bottle	10	0.02	0.03	1	7.018 326
with bottle	25	0.05	0.05	1	7.018 327
with bottle	50	0.1	0.08	1	7.018 328
without bottle	10	0.02	0.03	1	7.300 388
without bottle	25	0.05	0.05	1	7.077 524
without bottle	50	0.1	0.08	1	7.076 570





1 Automatic burettes, Pellet pattern, borosilicate glass 5.4 amber, class B, with stopcock

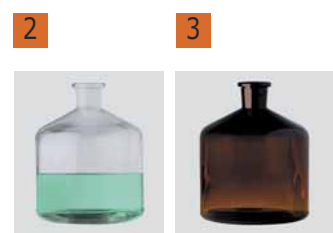
Amber borosilicate glass type 5.4.SILBERBRAND. With intermediate stopcock.
25ml: Class B, Tolerance to DIN EN ISO 385.
50ml: Class B, to DIN EN ISO 385.

BRAND

Automatic zero point setting. Graduations and inscriptions in white enamel. Intermediate stopcock for evacuation of remaining liquid. Calibrated to deliver (EX). Choice of models, either with PTFE or glass key dispensing and intermediate stopcocks. With 2-litre soda-lime glass reservoir (160mm dia. x 200mm height, with 29/32 ground glass neck) as indicated. Overall height with bottle approx. 1m.

Description	Capacity	Grad.	Tolerance	Keys	PK	Cat. No.
	ml	ml	± ml			
with bottle	25*	0.1	0.08	PTFE	1	9.270 540
with bottle	50	0.1	0.1	PTFE	1	9.270 542
without bottle	25*	0.1	0.08	PTFE	1	7.200 776
without bottle	50	0.1	0.1	PTFE	1	7.200 775

* Narrower divisions.



2 3 Burette bottles, borosilicate glass 3.3

Burette bottle for automatic burettes is made from heat resistant glass.
Each bottle has a NS 29/32 neck grinding that fits to burette.

Colour	Capacity	Diam.	Height	PK	Cat. No.
	ml	mm	mm		
clear	1000	110	200	1	9.270 905
clear	2000	160	200	1	6.237 628
brown	2000	160	200	1	6.238 474



4 Spare reservoir bottles, glass

Boro 3.3. Available in clear glass or amber glass or soda-lime glass.
Volume: 2000ml, diameter: 160mm, height: 200mm.

BRAND

Colour	Capacity	Diam.	Height	Material	PK	Cat. No.
	ml	mm	mm			
clear	2000	160	200	Boro 3.3	1	6.018 346
amber	2000	160	200	Boro 3.3	1	6.018 347
clear	2000	160	200	Soda-lime glass	1	7.059 541
amber	2000	160	200	Soda-lime glass	1	7.400 768



5 Orsat blowball

Natural rubber. Translucent.

Deutsch & Neumann

Type	PK	Cat. No.
Orsat blowball	1	9.115 510



6 Hand bellows

Single spray. Without net.
Size 3.

Deutsch & Neumann

Type	PK	Cat. No.
Hand bellows	1	9.270 995



7 Hand bellows

Double spray. With net.
Size 5.

Deutsch & Neumann

Type	PK	Cat. No.
Hand bellows	1	9.270 990

1 2 Digital Burettes, VITLAB® continuous

The pulse-free, dispensing operation of the Continuous burettes makes titration safer at high-level precision. The Continuous series can be used for titration agents up to a concentration of 1 Mol/l. The patented dual pistons pump provides permanent and pulse-free the liquid requested. Refills are not necessary. The Continuous burette series undercuts the margins of error defined by DIN EN ISO 8655-3 especially in partial volumes. All operation controls and the digital display have an ergonomic and functional design and are arranged clearly.

VITLAB

- Pulse-free dispensing technique for continuous and quick titration
- patented recirculation valve avoids reagent waste
- Clear and precise display of titrated volume
- Battery-operated, easily replaceable micro-batteries (1.5V)
- Dispensing volume per hand wheel revolution: 2.5ml (Continuous E), 5.0ml (Continuous RS)
- Device can be rotated on the bottle 360°
- Telescopic discharge tube extendible from 140 to 220mm
- Telescopic filling tube extendible from 200 to 350mm
- Adapters for drying tube and filter
- Certificate of conformity according to DIN 12600

Supplied with: Burette continuous, 3 PP adapter (GL 32, GL 38, S 40), 1 telescopic suction tube, 1 telescopic discharge tube, 2 micro batteries 1.5 V (LR 03/AAA), manual, quality certificate.

1



2



Type	Capacity ml	Capacity/U ml	Neck thread GL	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	PK	Cat. No.
E	2.5	2.5	45	0,2*	0,1*	1	9.284 020
RS	5.0	5.0	45	0,2*	0,1*	1	9.284 021

* Accuracy and Coefficient of variation according to DIN EN ISO 8655-3

3 Digital burettes, solarus®

A titration unit with a reagent recirculation system for manual titration directly from the reagent bottle. Power supplied by a solar cell. Available in three volumes (10 ml, 20 ml and 50 ml). The world's first digital burette with integrated solar cell. The power supply for the electronics and display is derived exclusively from an integrated solar cell. Easily replaceable valves. The vivid digital display prevents meniscus reading errors and is always clearly legible, regardless of the viewing angle. The handwheels with soft touch surface are ergonomically optimised for particularly precise control.

Hirschmann

- Power supplied by a solar cell
- Free rotation
- Media recirculating system for simple and rapid venting without reagent loss
- Handwheels with soft touch surface
- Clearly legible display, regardless of the viewing angle
- A light protection window for the valve block is also included in the scope of delivery
- Individual calibration of user-specified adaptations with "Quick-Cal"
- Discharge valves and valve seats consisting of high-purity aluminium oxide ceramic
- Serial bidirectional interface (RS 232 and USB)

Supplied with: solarus® with A 45 mm thread, 3 thread adapters (A 32, A 38 and S 40), discharge tube, 1 suction tube with retainer screw, 1 spanner for valve, brown light protection window, with individual serial number and single calibration report.

3



Description	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	PK	Cat. No.
Capacity 10 ml	0.3	0.1	1	9.287 779
Capacity 20 ml	0.2	0.1	1	9.287 780
Capacity 50 ml	0.2	0.1	1	9.287 781
Interface cable			1	9.287 756

Suitable accessories can be found in our online shop.



1 Bottle top burette Titrette®

For quickly and reliably titration with highest precision, even in close quarters, with no mains supply needed - in the lab, in production, or in the field! The Titrette® bottle-top burette has an innovative new measuring system which matches the Class A accuracy of glass burettes and, if needed, can offer the precision of 3 decimal places below 20ml. This is an important feature for users who need to work within the Class A error limits as with glass burettes according to DIN EN ISO 385 (e.g., pharmaceutical work). The titrating tube can be adjusted horizontally and vertically. This provides flexibility when positioning the instrument, e.g., when using a magnetic stirrer or different bottle sizes.

BRAND

- High accuracy
- Smooth-running operation for sensitive, drop-wise titration and fast filling of the device
- Compact design
- Light and stable, easy handling
- No switching between fill and titrate
- Simple maintenance
- Cleaning and parts replacement right in the lab
- Titrette® SH to determinate the acid content of milk and liquid dairy according to Soxhlet-Henkel ($4^{\circ}\text{SH} = 1\text{ml}$)

Items supplied: Titrette® bottle-top burette, DE-M marking, performance certificate, telescoping filling tube (170 to 330 mm), recirculation tube, 2 x 1.5V batteries (AAA/UM4/LR03), 4 x PP bottle adapters (GL45/32, GL 45/38, GL 45/S40 and GL32/NS 29/32), 2 coloured light shield inspection windows, operating manual.

Volume ml	Accuracy max. vol. ($\pm R\%$)	Precision max. vol. ($\leq CV\%$)	Interface	Description	PK	Cat. No.
$^{\circ}\text{SH}$ (25)	0.07	0.025	without	Incl. performance certificate	1	4.007 918
10	0.10	0.05	without	Incl. performance certificate	1	6.259 209
25	0.07	0.025	without	Incl. performance certificate	1	9.271 332
25	0.07	0.025	without	Incl. DAkkS calibration certificate	1	7.658 501
50	0.06	0.02	without	Incl. performance certificate	1	9.271 333
50	0.06	0.02	without	Incl. DAkkS calibration certificate	1	6.233 892
10	0.10	0.05	incl.	Incl. performance certificate	1	9.271 338
25	0.07	0.025	incl.	Incl. performance certificate	1	9.271 334
50	0.06	0.02	incl.	Incl. performance certificate	1	9.271 335

Suitable accessories can be found in our online shop.

2

2 Digital-burette, opus®

A titration unit with a reagent recirculation system for motor-powered titration directly from the reagent bottle. Available in three volumes (10 ml, 20 ml and 50 ml). Electronic control of titration enables the achievement of reproducible results and precisely defined dynamics each time. Time-saving rapid titration with subsequent fine titration enhances accuracy and efficiency. The titration impulse triggered by the motor enables the achievement of a droplet break-up with output volumes from 10 μl to 99.999 ml and delivers resolutions up to the third decimal place.

Hirschmann



- Electronic control and dispensing of volumes
- A light protection window for the valve block is also included in the scope of delivery
- Titration impulse triggered by the motor enables the achievement of a droplet break up from 10 μl for precision determination
- Media recirculating system for simple and rapid venting without reagent loss
- Free rotation
- TFT touchscreen with user-friendly menu
- Method memory for nine different titration procedures with storage of all settings
- USB and RS232 interface for PC connection
- Integration in automated procedures possible
- Discharge valves and valve seats consisting of high-purity aluminium oxide ceramic
- Power supply 100-240V, with EU, UK, US plug

Supplied with: opus® titration complete with thread 45 mm, 3 adapters (A 32, A 38 and S 40), 1 screw coupled suction tube, 1 titration discharge unit and 1 power supply, 1 brown light protection window, touch screen module "titration", Data Power Cable 0.75 m, instruction manual, single calibration report.

Description	Accuracy max. vol. ($\pm R\%$)	Precision max. vol. ($\leq CV\%$)	PK	Cat. No.
Volume 10 ml	0.6	0.2	1	9.287 875
Volume 20 ml	0.6	0.2	1	9.287 870
Volume 50 ml	0.6	0.2	1	9.287 871

1 Motor-driven piston burette Titronic® 300

1

Motor-driven piston burette with 20 or 50ml dosing unit. For manual titrations and highly precise dosing tasks. The TITRONIC® 300 can be completely controlled from a PC via the USB- or RS-232-interface. Up to 16 burettes can be connected to one another via the RS232 interface according to the daisy chain principle.

SI Analytics

T 300/20 M1: Basic unit without magnetic stirrer with ready to use assembled 20 ml dosing unit TZ 3130 with hoses, fittings and titration tip, controller TZ 3880, titration clamp Z 305, stand rod TZ 1748 and power supply 100-240 V

T 300/50 M1: as T 300/20 M1, only with ready to use assembled 50 ml dosing unit TZ 3160

T 300/20 M2: as T 300/20 M1, additionally with magnetic stirrer TM 50

T 300/50 M2: as T 300/20 M2, only with ready to use assembled 50 ml dosing unit TZ 3160

Specifications

Interfaces:	USB A and B, 2x RS 232
Stirrer connection:	TM 50 power supply directly through piston burette
Keyboard connection:	The unit is operated using the keys on the device itself, the controller TZ 3880 and optional PC-keyboard (USB)
Display:	graphics-capable TFT display
Volume indicator:	000.005 to 9999.999 ml
Display resolution:	0.005
Dosing speed:	max. 100ml/min (with 50 ml unit)
Fill time:	30secs. to 999secs. adjustable (time depends on cylinder volume)
Dosing units:	20ml or 50ml dosing unit, interchangeable
Burette resolution:	8000
Dispensing accuracy:	0.15% system measurement deviation, 0.05% accidental measurement deviation determined in accordance with EN ISO 8665, Part 3
Supply requirements:	230V, 50/60Hz
Conformity:	ISO 8665, Part 6
CE mark:	EMC: 2004/108/EG; safety EG- Directive 2006/95



Type	Burette attachment ml	PK	Cat. No.
T 300/20 M1	20	1	9.863 180
T 300/50 M1	50	1	9.863 181
T 300/20 M2	20	1	9.863 182
T 300/50 M2	50	1	9.863 183



1 Motor-driven piston burette TITRONIC® 500

Motor-driven piston burette with intelligent exchangeable dosing units with automatic recognition of unit size and reagent data. *SI Analytics*
 Besides manual titration and highly precise dosing tasks the TITRONIC® 500 can also be used for the preparation of solutions by entering the weights. The connection of an analytical balance allows the easy automatization of the solution preparation. The TITRONIC® 500 can completely controlled from a PC via the USB- or RS-232-interface. Up to 16 burettes can be connected to one another via the RS232 interface according to the daisy chain principle.

T 500: TITRONIC® 500 basic unit without magnetic stirrer, with stand rod TZ 1510, titration clamp Z 305, controller TZ 3880, power supply 100 - 240 V

T 500-M1: TITRONIC® 500 basic unit with magnetic stirrer TM 235, with stand rod TZ 1510, titration clamp Z 305, controller TZ 3880, power supply 100 - 240 V

T 500-M2/20: TITRONIC® 500 basic unit with magnetic stirrer TM 235 and exchangeable unit WA 20, with stand rod TZ 1510, titration clamp Z 305, controller TZ 3880, power supply 100 - 240 V

Technical specification

Interfaces:	3x USB (2 x USB A and 1x USB B), 2 x RS-232-C, 1 x LAN
Stirrer connection:	TM 235 or alternative paddle stirrer
Keyboard:	The unit is operated using the keys on the device itself, the controller TZ 3880 and optional PC-keyboard (USB)
Display:	graphics-capable 3.5" TFT display
Volume display:	00.00 to 999.9ml
Display resolution:	0.001ml (depending on exchangeable unit)
Dosing speed:	max. 100ml/min (with 50ml unit)
Filling speed:	min. 20 to 999 sec adjustable (time according to the cylinder volume)
Exchangeable units:	5, 10, 20ml or 50ml exchangeable units with reagent recognition
Burette resolution:	20000 steps
Dosing accuracy:	systematic error 0.15%, random error 0.05% in compliance with EN ISO 8655-6
Power supply:	100-240V; 50/60Hz
Conformity:	ISO 8655, part 6
CE-mark:	EMC: 2004/108/EG; safety EG- Directive 2006/95

Type	Description	PK	Cat. No.
T 500	Basic unit	1	9.863 210
T 500-M1	With magnetic stirrer	1	9.863 211
T 500-M2/20	With magnetic stirrer and 20ml exchangeable unit	1	9.863 212

1



Accessories for TITRONIC® 500 and TitroLine® 7000/7500 KF/7750/7800

SI Analytics

Type	Description	PK	Cat. No.
TM 235	Magnetic stirrer	1	9.863 154
WA 05	5ml exchangeable unit, complete	1	9.863 155
WA 10	10ml exchangeable unit, complete	1	9.863 156
WA 20	20ml exchangeable unit, complete	1	9.863 157
WA 50	50ml exchangeable unit, complete	1	9.863 158
TZ 3835	USB keyboard	1	9.863 159

1 Automatic Titrators TitroLine® 5000**1**

Very compact titrator for simple routine titrations. Thanks to the standard methods the creating of methods is no longer required. Just load the method and press the start button. GLP compliant results with titration curve can be documented on a connected printer or USB-memory stick.

SI Analytics

- Following titration modes are possible:
- Titrations to pH, mV and μA endpoint (2 EP)
- Titrations to one equivalence point (pH und mV) with dynamic or linear titration addition
- Manual titrations with the controller
- Dosing tasks
- Number of methods: 5

Typical applications for the TitroLine® 5000 are:

- Salt content in foodstuffs (cheese, soy sauce, ketchup)
- Total acidity in wine and beverages
- Nitrogen according to Kjeldahl
- Chloride in drinking water and other samples
- Alkalinity (p + m-value)
- FOS/TAC

Supplied with:

TL 5000/20 M1: Basic unit without electrode, with ready to use assembled 20 ml dosing unit TZ 3130 with hoses, fittings and titration tip, controller TZ 3880, titration clamp Z 305, stand rod TZ 1748 magnetic stirrer TM 50 and power supply 100-240 V

TL 5000/50 M1: as TL 5000/20 M1, only with ready to use assembled 50 ml dosing unit TZ 3160

TL 5000/20 M2: as TL 5000/20 M1, additionally with pH combination electrode and buffer set

TL 5000/50 M2: as TL 5000/20 M2, only with ready to use assembled 50 ml dosing unit TZ 3160

TL 5000/20 M3: as TL 5000/20 M1 additionally with Ag electrode and electrode cable

**Specifications**

Measuring input electrode	pH/mV-input with DIN or BNC socket
Measuring input Pt 1000/NTC 30:	Temperature sensor connection for resistance probes Pt 1000 or NTC 30 (socket: 2 x 4 mm)
Interfaces:	1 x USB A und 1 x USB-B 2 x RS-232-C
Stirrer connection:	TM 50 power supply directly through piston burette
Keyboard:	The unit is operated using the keys on the device itself, the controller TZ 3880 and optional PC-keyboard (USB)
Display:	graphics-capable TFT display
Dosing units:	20 ml or 50 ml dosing unit, interchangeable
Burette resolution:	8000
Dosing accuracy:	systematic error 0.15 %, random error 0.05 % in compliance with EN ISO 8655-6
Supply requirements:	230V, 50/60Hz
Conformity:	ISO 8655, part 6
CE-mark:	EMC: 2004/108/EG; safety EG- Directive 2006/95

Type	PK	Cat. No.
TL 5000/20 M1	1	9.863 184
TL 5000/50 M1	1	9.863 185
TL 5000/20 M2	1	9.863 186
TL 5000/50 M2	1	9.863 187
TL 5000/20 M3	1	9.863 191

Accessories for Titronic® 300 and TitroLine® 5000

SI Analytics

Type	Description	PK	Cat. No.
TM 50	Magnetic stirrer	1	9.863 188
TZ 3835	USB keyboard	1	9.863 159
TZ 3830	USB-HUB	1	9.863 189
TZ3803	Reagent bottle brown, 1 Litre	1	9.863 190

1 Automatic Titrators, TitroLine® 7000

Compact titrator with intelligent exchangeable units with automatic recognition of unit size and reagent data. Thanks to the modern USB- and additional RS232 interfaces, connection of printer, balance and further accessories are possible at the same time. The brilliant, very high-contrast TFT-display allows the easy parameterisation and tracking of the titration curve.

SI Analytics

Supplied with:

TL 7000-M1/10: basic unit with magnetic stirrer TM 235 and 10ml exchangeable unit WA 10, incl. amber glass bottle for titration reagent, GL 45 and S 40-bottle adapter, tubes, drip off tube and titration tip.

TL 7000-M1/20: basic unit with magnetic stirrer TM 235 and 20ml exchangeable unit WA 20, incl. amber glass bottle for titration reagent, GL 45 and S 40-bottle adapter, tubes, drip off tube and titration tip.

TL 7000-M1/50: basic unit with magnetic stirrer TM 235 and 50ml exchangeable unit WA 50, incl. amber glass bottle for titration reagent, GL 45 and S 40-bottle adapter, tubes, drip off tube and titration tip.

TL 7000-M2/20: basic unit with magnetic stirrer TM 235 and 20ml exchangeable unit WA 20, incl. amber glass bottle for titration reagent, GL 45 and S 40-bottle adapter, tubes, drip off tube and titration tip. With pH-combination electrode IL-pHT-A120MF-DIN-N and buffer set.

Technical specification

Measuring input pH/mV:	pH/mV-input with DIN or BNC socket, TitroLine® 7000 additionally with ID function for automatic detection of electrode
Measuring input Dead Stop:	µA-input for double platinum electrode (socket 2 x 4mm), pole voltage adjustable
Temperature:	for resistance probes Pt 1000 (socket: 2 x 4mm)
Interfaces:	3 x USB (2 x USB-A und 1 x USB-B), 2 x RS-232-C, 1 x LAN
Stirrer connection:	TM 235 or alternative paddle stirrer
Keyboard:	The unit is operated using the keys on the device itself, the controller TZ 3880 and optional PC-keyboard (USB)
Display:	graphics-capable 3.5" TFT display
Exchangeable units:	5, 10, 20ml or 50ml exchangeable units with reagent recognition
Burette resolution:	20000 steps
Dosing accuracy:	systematic error 0.15%, random error 0.05-0.07% in compliance with EN ISO 8655-6
Supply requirements:	100-240V; 50/60Hz
Conformity:	ISO 8655, part 6
CE-mark:	EMC: 2004/108/EG; safety EG- Directive 2006/95

Type	Description	PK	Cat. No.
TL 7000-M1/10	With 10ml exchangeable unit	1	9.863 160
TL 7000-M1/20	With 20ml exchangeable unit	1	9.863 161
TL 7000-M1/50	With 50ml exchangeable unit	1	9.863 162
TL 7000-M2/20	With 20ml exchangeable unit and pH Electrode	1	9.863 163

1



KF Titrators TitroLine 7500® KF/TitroLine 7500® KF trace

You cannot go wrong with the TitroLine® KF titrators from SI-Analytics. The TitroLine® 7500 KF is the volumetric generalist for a wide range of use and the TitroLine® 7500 KF trace is the specialist for low water contents.

SI Analytics

Both titrators are to be characterized by following features:

- Fast, easy and precise
- With standard methods for different applications (titer determination, blank value...)
- High visible full color display, that can be easily viewed from a distance and extreme angles
- Storage of results via USB and LAN port (PDF and CSV -format)
- with online curve
- With intelligent interchangeable modules (only TitroLine® 7500 KF)

Applications TitroLine 7500® KF: KF volumetry, dead-stop-titrations (SO₂, bromine number)

Applications TitroLine 7500® KF trace: KF coulometry, bromine number

Volumetric KF-Titrators supplied with:

TL 7500 KF 05: titrator unit, interchangeable module WA 05, TM 235 KF titration stand with integrated stirrer and pump, titration vessel TZ 1770, micro-dual platinum electrode KF 1100 and starter kit, power supply 100-240 V

TL 7500 KF 10: titrator unit, interchangeable module WA 10, TM 235 KF titration stand with integrated stirrer and pump, titration vessel TZ 1770, micro-dual platinum electrode KF 1100 and starter kit, power supply 100-240 V

TL 7500 KF 20: titrator unit, interchangeable module WA 20, TM 235 KF titration stand with integrated stirrer and pump, titration vessel TZ 1770, micro-dual platinum electrode KF 1100 and starter kit, power supply 100-240 V

Coulometric KF-titrators supplied with:

TL 7500 KF trace M1: titrator unit, generator electrode TZ 1752 without diaphragm, magnetic stirrer TM 235, titration vessel TZ 1751, micro-dual platinum electrode KF 1150, support rod

TL 7500 KF trace M2: titrator unit, generator electrode TZ 1752 without diaphragm, TM 235 KF titration stand with integrated stirrer and pump, titration vessel TZ 1754, micro-dual platinum electrode KF 1150, support rod

TL 7500 KF trace M3: titrator unit, generator electrode TZ 1753 with diaphragm, magnetic stirrer TM 235, titration vessel TZ 1751, micro-dual platinum electrode KF 1150, support rod

TL 7500 KF trace M4: titrator unit, generator electrode TZ 1753 with diaphragm, TM 235 KF titration stand with integrated stirrer and pump, titration vessel TZ 1754, micro-dual platinum electrode KF 1150, support rod

TL 7500 KF trace M6: titrator unit, generator electrode TZ 1752 without diaphragm, titration stand TM 235 TO, titration vessel TZ 1754, micro-dual platinum electrode KF 1150, connection cable TZ 3094

Specifications

Measuring range TitroLine 7500® KF:	10ppm - 100%
Dosing accuracy:	<0.15%
Measuring range TitroLine 7500® KF trace:	1ppm - 5% (10µg to 100mg)
Accuracy:	0.3% at 1mg water
Number of user methods:	50
Printer:	HP PCL, Seiko DPU S 445, PDF
Interface:	2 x USB-A, 1 x USB-B, 2 x RS 232, 1 x LAN
PC Software:	TitriSoft 3.5

Type	PK	Cat. No.
TL 7500 KF 05	1	9.863 170
TL 7500 KF 10	1	6.255 582 ¹
TL 7500 KF 20	1	9.863 171
TL 7500 KF trace M1	1	9.863 172
TL 7500 KF trace M2	1	9.863 173
TL 7500 KF trace M3	1	9.863 174
TL 7500 KF trace M4	1	9.863 175
TL 7500 KF trace M6	1	6.314 327 ²



6.255 582



6.314 327

1 Titrators TitroLine 7750®

Titroline® 7750 is the all-rounder for both potentiometric titration and volumetric KF titration. The TitroLine® 7750 combines the features of the potentiometric titrator TitroLine® 7000 and the volumetric Karl Fischer titrator TitroLine® 7500.

SI Analytics

The new TitroLine® 7750 is characterized as follows:

- Highly visible full color display, that can be easily viewed from a distance and extreme angles
- With new interchangeable modules which all relevant reagent and unit data can be stored
- Thanks to the 2 x USB-host, 1 x USB-PC and 2 x RS232 ports, very communicable. Connect for example, USB keyboard, USB printer, barcode reader, USB flash drives, balances, PC und further SI Analytics devices such as piston burettes and sample changers
- Storage of results via USB and LAN port (PDF and CSV -format) including method transfer
- With standard methods for potentiometric and KF titration

Supplied with:

TL 7750: Basic unit without magnetic stirrer, with stand rod TZ 1510, titration clamp Z 305, keyboard TZ 3835 and power supply 100-240 V

TL 7750-M1: as TL 7750, additionally with magnetic stirrer TM 235

TL 7750-TitriSoft: as TL 7750-M1, additionally with TitriSoft 3.0 (TZ 3071)

TL 7750 KF 05: Titrator unit, exchange unit WA 05, TM 235 KF titration stand with integrated stirrer and pump, titration vessel TZ 1770, micro double platinum electrode KF 1100 and starter kit, power supply 100-240 V

TL 7750 KF 10: as TL 7750 KF 05, only with exchange unit WA 10

TL 7750 KF 20: as TL 7750 KF 05, only with exchange unit WA 20

Type	PK	Cat. No.
TL 7750	1	9.863 176
TL 7750-M1	1	6.258 235
TL 7750-TitriSoft	1	9.863 177
TL7750 KF 05	1	9.863 178
TL7750 KF 10	1	7.981 381
TL7750 KF 20	1	9.863 179

2 Titrators TitroLine® 7800

The TitroLine® 7800 is the new all-rounder for potentiometric titration with an additional digital measuring input. That enable for example the connection and use of pH and conductivity sensors at the same time.

SI Analytics

An additional external conductometer is not required anymore. The TitroLine® 7800 can also be used as volumetric KF titrator.

The TitroLine® 7800 is to be characterized by following features:

- High visible full color display, that can be easily viewed from a distance and extreme angles
- With intelligent interchangeable modules and storage of all relevant reagent data
- Includes two USB-A, one USB-B, two RS-232 and one LAN port for expansion and connection of devices such as keyboard, printer, barcode reader, memory sticks, balances, PC an further SI Analytics devices
- Storage of results via USB and LAN port (PDF and CSV -format) including method transfer
- With one analogue and one digital measuring input. The digital input allows the connection of digital (IDS) pH and conductivity sensors.
- With standard methods for potentiometric and KF titration

Supplied with: Basic unit with or without magnetic stirrer, with stand rod TZ 1510, titration clamp Z 305, keyboard TZ 3835 and power supply 100-240 V

Type	PK	Cat. No.
TL 7800 (without magnetic stirrer)	1	9.863 168
TL 7800-M1 (with magnetic stirrer)	1	9.863 169



1 Drum pump Pump-it®

For rapid and clean emptying from cans, drums and small barrels up to 60L.

Bürkle

- Precise dosing, without dripping
- Pump connection suitable for 64mm dia. (BSI) container threads
- stepless length adjustment of immersion tube
- Threaded adapters for most commercially-sold containers available
- Not suitable for HCl

Immersion depth mm	Flow rate L / min.	Material	PK	Cat. No.
1000	8	PP/FKM	1	9.001 110



2 Adapter set for Pump-it® container pump

Adapter set consisting of:

- 2" Coarse thread, Mauser, green
- 2" coarse thread, Tri-Sure®, brown
- 2" Fine thread steel drum, blue
- DIN 60, black
- DIN 51, black

Bürkle

Type	PK	Cat. No.
Adapter set for Pump-it can pump	1	9.001 111



3 Drum Pump PumpMaster

Drum pump PumpMaster with gasket of FKM for acids and chemical liquid. The manual pressure pump is ideally suited for drawing off, decanting and emptying canisters and barrels. The hand pump is used to create excess pressure that forces the liquid out of the container. The stopcock also allows extraction of small quantities of liquid. The PumpMaster container pump is mounted on the container using a flexible stopper with a variable and adjustable diameter. No special thread adapters are required. PumpMaster fits all commercial container openings with a diameter from 46.5 mm to 60 mm. The immersion tube has a length of 95 cm and it can be shortened depending on the size of the container.

Bürkle

Scope of supply: Complete with three bungs in different sizes.

Material	Immersion depth mm	Flow rate l / min.	PK	Cat. No.
PP/PE	95	approx. 8	1	6.259 907



4 Foot pumps OTAL

For jerry cans and balloons up to 120 l capacity. Universal bungs for container openings of 30 to 70 mm diameter.

PP: weak acids, caustic solutions and detergents

PVDF: suitable for acids and alkalis, chlorine bleaching, not for strongly oxidizing acids and caustic solutions

Stainless steel: solvents and liquids of VbF Hazard Class AIII (not easily flammable)

Bürkle



Description	Diam. mm	Immersion depth mm	Flow rate L / min.	Material	PK	Cat. No.
Foot pump with tube and stopcock	12	700	12	PP / PVC dispensing tube	1	9.001 133
Foot pump	15	700	20	PP	1	9.001 015
Foot pump	16	700	20	PVDF	1	9.001 130
Foot pump	18	700	26	PP	1	9.001 018
Foot pump	18	900	26	Stainless steel tubing	1	9.001 132
Foot pump	22	900	30	PP	1	9.001 022



1 Hand pumps OtaI

For jerry cans and ballons up to 60l capacity. Universal bungs for container openings of 30 to 70mm diameter.

PP: weak acids, caustic solutions and detergents

PVDF: suitable for acids and alkalis, chlorine bleaching, not for strongly oxidizing acids and caustic solutions

Stainless steel: solvents and liquids of VbF Hazard Class AIII (not easily flammable)

Bürkle

Diam. mm	Immersion depth mm	Flow rate L / min.	Material	PK	Cat. No.
10	450	4	PP*	1	9.001 210
12	700	14	PP	1	9.001 112
15	700	20	PP	1	9.001 115
18	700	26	PP	1	9.001 118
16	700	20	PVDF	1	9.001 135
18	900	26	Stainless steel tubing	1	9.001 137
12	700	12	PP / PVC dispensing tube	1	9.001 138

*Miniature pump for container openings 20 to 36mm.



4.670 769

OTAL® disposable pumps with PE conveying pipes

NEW

Bürkle

Space-saving container pump for single use. The medium to be filled only comes into contact with the conveying pipe. The conveying pipe is made of one piece and can easily be shortened to the respective container height with the supplied cutter for good residual emptying. The disposable conveying pipe can be replaced quickly and easily after use.

Scope of supply: Pump ball, universal plug made of soft PVC for container openings of 30 - 70 mm Ø, cutter and 10 disposable conveying pipes

Type	Diam. mm	Immersion depth mm	Flow rate L / min.	PK	Cat. No.
OTAL® disposable foot pump	12	90	14	1	4.670 768
OTAL® disposable hand pump	12	90	14	1	4.670 769 2



3 Siphons

Transparent with stopcock. Simple to use, suitable for occasional dispensing of non-aggressive liquids from a higher drum to a lower vessel, following the siphoning principle.

Bürkle

Diam. mm	Immersion depth mm	Flow rate L / min.	Material	PK	Cat. No.
15	1000	9	LDPE/PVC	1	9.001 355



4 Barrel pumps, stainless steel

Stainless steel V2A and PTFE.

For safe dispensing of liquids with a low flash point . Electrostatic charge can be dissipated through accessories antistatic set and drum screwthread connection. Not suitable for acetone.

Bürkle

Description	Diam. mm	Immersion depth mm	PK	Cat. No.
rigid dispensing tube	32	570	1	9.001 340
rigid dispensing tube	32	910	1	9.001 341
flexible tubing with stopcock	32	570	1	9.001 362
flexible tubing with stopcock	32	910	1	9.001 363
Removable discharge tube	32	360	1	6.083 463
flexible tubing with stopcock	32	360	1	6.802 513



9.001 345



6.090 497

Barrel pumps, screw joints

Barrel screw joints for stainless steel drum pumps.

Constructed in nickel-plated brass. For containers with R2", internal steel barrel thread.

Bürkle

Description	PK	Cat. No.
Barrel screw joint 2"	1	9.001 345 5
Barrel screw joint, gas-tight 2", hermetic sealing	1	6.090 497 6

1 Barrel pumps, PP

- For decanting acids, caustic solutions and aggressive detergents
- Excellent recovery of residual liquid in the barrel provided by base-sitting, non-return valve and steplessly adjustable immersion tube
- For barrels and tanks from 30 to 1000l.

Bürkle



Type A: With rigid, angled, dispensing nozzle.
Type B: With flexible, PVC dispensing hose and stopcock.

Barrel screw joints and thread adapters for standard containers are available as optional accessories. Please order separately.

Immersion tube diam.: 32mm
Max. pump capacity: up to approx. 12 L/min.

Type	Immersion depth mm	Length mm	PK	Cat. No.
A	500	600	1	9.001 356
B	500	600	1	9.001 366
A	650	740	1	9.001 357
B	650	740	1	9.001 367
A	800	900	1	9.001 358
B	800	900	1	9.001 368
A	1000	1090	1	9.001 359
B	1000	1090	1	9.001 369
A	1250	1340	1	9.001 364
B	1250	1340	1	9.001 370
A	1500	1590	1	9.001 365
B	1500	1590	1	9.001 371

2 Barrel pump, PTFE

- For ultrapure and aggressive liquids
- Made of solid, pure white PTFE, giving an excellent chemical resistance to all media (with the exception of elemental fluorine)
- With stopcock to prevent the escape of harmful or hazardous liquids and unwanted drips
- Barrel screw joints are available as accessories

Bürkle



Description	Tube diam. mm	Immersion depth mm	Flow rate ml / pass	PK	Cat. No.
With discharge tube	32	400	180	1	4.665 336
With discharge tube	32	600	270	1	9.001 260
With discharge tube	32	950	400	1	6.801 515
With discharge hose	32	400	180	1	4.665 337
With discharge hose	32	600	270	1	7.639 613
With discharge hose	32	950	400	1	6.255 584

Screwthread connections for PP and PTFE drum pumps

Bürkle

Type	Material	PK	Cat. No.
Screwthread connection for R2", internal steel barrel thread	PP	1	9.001 335 3
Drum stoppers for drum openings from 40 to 70 mm	PVC	1	9.001 336 4
Screwthread connection for Mauser 2", internal coarse screwthread	PP	1	9.001 337 5
Screwthread connection for Tri-Sure®, internal coarse screwthread	PP	1	9.001 338 6
Screwthread connection R2" with counter nut, for drum openings of 60mm diam.	PP	1	9.001 347 7



8 Thread adapter set

NEW
Bürkle

- Thread adapter set consisting of:
- 3/4" Hünersdorff
 - 3/4" Kautex
 - 3/4" cylindrical R 3/4" barrel thread
 - 3/4" conical R 3/4" barrel thread
 - Hex wrench for threaded adapter

Type	PK	Cat. No.
Thread adapter set complete	1	6.076 152



1


1 Mini solvent pump

The self-closing discharge (with auto-stop function) of the Mini solvent pump ensures absolutely precise filling with no dripping at all. Dosing is even easy in very small containers such as test tubes, which present no problems. A hose can optionally be fastened onto the discharge spout (internal Ø 6 mm), thus making it possible to fill the container from a greater distance.

Bürkle

The Mini solvent pump is especially compact and very well balanced, which makes it possible to fill without tipping, even from very small containers.

Thanks to its sturdy design and high-quality materials, the Mini solvent pump consistently ensures neat and reliable filling throughout its long service life, easily and conveniently.

- Ideal for 1-5 l containers
- Connecting thread GL 45
- Parts in contact with medium made of PTFE and stainless steel (1.4301, 1.4404)
- PTFE hose (6 x 8 mm) 0.4 m
- Including grounding cable 2 m
- Adapters available as accessories for S 40, GL 38 and GL 32

Description	Flow rate l / min.	PK	Cat. No.
Mini solvent pump, GL 45	1.8	1	9.001 351
Adapter, PTFE for S 40		1	9.001 352
Adapter, ETFE for GL 38		1	9.001 353
Adapter, ETFE for GL 32		1	9.001 354

2


9.001 349

2 Solvent pump hand operated

For contamination-free removal of organic solvents and flavouring agents. Can be completely closed off with two ball valves so that no dangerous vapours can escape after dispensing. Electrostatic charge can be dissipated through the accessory antistatic set (please order separately).

Bürkle

- Medium-contacting parts are made of stainless steel (1.4301) and PTFE
- For containers up to 60 litres
- Suitable for containers with R 2" thread
- The solvent pump for tinfoil canisters has a connector thread for pull-out spouts

Description	Immersion depth mm	PK	Cat. No.
Hand pump	600	1	9.001 349 2
Hand pump for tinplate canisters	600	1	6.237 176

3


6.236 800

3 Solvent pump foot operated

For filling off high purity liquids such as solvents. Due to the barrel screw joint and the stopcock, the container and the pump can be hermetically sealed. Electrostatic charge can be dissipated through the accessory antistatic set (please order separately).

Bürkle

- Medium-contacting parts made of stainless steel (1.4301) and PTFE
- For barrels up to 220 litres, immersion tube can be steplessly adjusted to the barrel depth
- Suitable for steel barrels with R 2" thread

Description	Immersion depth mm	Flow rate L / min.	PK	Cat. No.
Foot pump with rigid angled tube	950	30	1	9.001 134
Foot pump with flexible tubing	950	30	1	6.236 800 3

4


4 Drum pumps GLP 25

GLP 25 is your ideal helper for clean and safe liquid transfer from small containers and drums up to 220 litres. Various media such as acids and bases low concentrated, dies, emulsions, dispersions and low-viscosity liquids can be measured out without any problems. Wetted materials are PP, stainless steel and Viton®. The pump is therefore additionally media resistant against aggressive liquids. Driveshaft made from stainless steel. Delivery rates from 1 to 20 l/min adjustable. Pump Set supplied with: motor, pump unit, PP, 3/4" dia. inlet tubing (length 500, 700 or 1000mm), PP discharge tubing, 250mm long and adapter for drum necks of 40 to 58mm.

Grün-Pumpen

Description	Length mm	PK	Cat. No.
Pump set	500	1	9.001 410
Pump set	700	1	9.001 411
Pump set	1000	1	9.001 412

1 2 Accessories for drum pumps GLP 25

Grün-Pumpen

Description	PK	Cat. No.
Motor for all pump units	1	9.001 400
Pump unit with inlet tubing length 500mm, incl. discharge tube	1	9.001 401
Pump unit with inlet tubing length 700mm, incl. discharge tube	1	9.001 402
Pump unit with inlet tubing length 1000mm, incl. discharge tube	1	9.001 403
Discharge tube PP, length 25cm	1	9.001 404
Adapter PP, diam. 65 to 70mm	1	9.001 405
Nozzle PP, reinforced PVC outlet tubing 1.5m, DN19	1	9.001 406



3 4 5 Barrel pumps AccuOne and EnergyOne

The pumps are equipped with two different power supply systems: AccuOne, driven by a high-performance rechargeable battery or EnergyOne, with a power cable for direct connection to mains electricity. Innovative new feature: The power supply units are interchangeable! The rechargeable battery or the power supply unit are fitted with a clip lock and are removable. They can be exchanged quickly and easily. Thus AccuOne can also be operated with the power supply cable unit and EnergyOne can be operated with the rechargeable battery. The Drive can also be disconnected quickly and easily from the pump station with a clip lock. This makes it possible to use one drive for filling at several stationary pump stations. AccuOne and EnergyOne are designed for applications in which even very small amounts of liquid can be added to small containers with narrow openings. The TouchPanel is sealed against dust, dirt and water. By a foil Keyboard it can be used to regulate the flow rate continuously and precisely from 0.4l/min to 12 l/min. The light and powerful pumps are made of high-quality materials, PP, PTFE and Hastelloy C, to ensure outstanding chemical resistance. Please make note of detailed information related to chemical resistance!

Bürklee

	AccuOne EnergyOne
Maximum pumping capacity:	12 l/min
Weight:	750 g 580 g
Discharge connection:	3/4"
Shaft:	Hastelloy C
Pump station, Seals:	PP, PTFE
Power supply:	Battery Li-Ion (up to 600l) 230V incl. international plug adapter



Type	Description	Tube length mm	PK	Cat. No.
AccuOne	with rechargeable battery, rigid discharge tube and charger	500	1	9.001 420
AccuOne	with rechargeable battery, rigid discharge tube and charger	700	1	9.001 421
AccuOne	with rechargeable battery, rigid discharge tube and charger	1000	1	9.001 422
EnergyOne	with power supply unit and rigid discharge tube	500	1	9.001 423
EnergyOne	with power supply unit and rigid discharge tube	700	1	9.001 424
EnergyOne	with power supply unit and rigid discharge tube	1000	1	9.001 425

Suitable accessories can be found in our online shop.

Flow meter TR3

NEW

Can be combined with all drum and container pumps. For thin-bodied fluids.

- Measurement according to the turbine wheel principle
- Free-rotatable after assembly
- Variable display alignment
- Large illuminated display
- Simultaneous display of subset (4-digit) and total quantity (7-digit)
- Display of the partial and total volume
- Customary 1.5 V batteries (AAA)

Specifications

Measuring range:	5 ... 120 l/min
Viscosity range:	0.8 ... 40 mPas
Operating pressure:	max. 10 bar
Bursting pressure:	max. 20 bar
Power supply:	2 x 1.5 V batteries (AAA), replaceable
IP code:	IP 65

Connection	Material	PK	Cat. No.
G 1 1/4	PP	1	6.311 932 6
G 1	PP	1	6.311 933
G 1 1/4	PVDF	1	6.311 934 7

Lutz Pumpen



6.311 932

6.311 934

Pumps/Drum pumps-Peristaltic pumps

1



1 Drum pumps, mains-powered

Lightweight and powerful pump for transferring small amounts of aqueous liquids up to 300 mPas from cans and drums with infinitely variable speed controller.

Lutz Pumpen

- Motor 230 V, 200 W (IP 24)
- Seal less pump tube
- Suitable accessory flow meter required
- Pump with tubing connection

Two options:

- Polypropylene version for acids and alkalis
- Stainless steel version for low-viscosity lubricants

Available as a set (9.880 310-9.880 315) with 1.5 m PVC tubing, nozzle in polypropylene, wall bracket.

Set accessories: Lutz nozzle, 1.5 m PVC hose 3/4", hose connection, hose clamps, wall bracket (for pump B2 Vario PP-SL Ø 32 mm).

Type	Immersion tube diam.	Immersion depth	Delivery head	Flow rate	Material	PK	Cat. No.
	mm	mm	mWS	l / min.			
Pump	32	500	7.0	75	PP	1	9.880 300
Pump	32	700	7.0	75	PP	1	9.880 301
Pump	32	1000	7.0	75	PP	1	9.880 302
Pump	28	500	6.5	68	stainless steel	1	9.880 303
Pump	28	700	6.5	68	stainless steel	1	9.880 304
Pump	28	1000	6.5	68	stainless steel	1	9.880 305
Pump	32	700	7.0	75	PVDF	1	6.283 249
Pump set	32	500	7.0	75	PP	1	9.880 310
Pump set	32	700	7.0	75	PP	1	9.880 311
Pump set	32	1000	7.0	75	PP	1	9.880 312
Pump set	28	500	6.5	68	stainless steel	1	9.880 313
Pump set	28	700	6.5	68	stainless steel	1	9.880 314
Pump set	28	1000	6.5	68	stainless steel	1	9.880 315
Set accessories					PVC	1	7.930 292

2



2 Anti-static set

When dispensing combustible/explosive liquids pump, both dispensing and filling drum involved in the process must be sufficiently earthed, in order to prevent ignition or explosion through electrostatic discharges. Antistatic set, includes three colour-coded connecting cables with clamps, supplied complete in plastic case.

Bürkle

Type	PK	Cat. No.
Antistatic set	1	9.001 346

3



9.880 360

Horizontal centrifugal pumps, magnetically coupled

These new magnetic drive pumps are designed for pumping acids, bases, mixtures of acids and bases, solvents, photochemicals into alkali stripping baths, galvanic baths, as well as radioactive, sterile, expensive or highly corrosive liquids. The pumps are sealless. The impeller is driven by the magnetic force of the outer magnets, therefore no mechanical seal is required. As the pump housing is hermetically sealed no leaks can occur. The use of high performance, permanent magnets, ensures high transmission forces even at elevated temperatures.

Lutz Pumpen

- viscosity up to 20 mPas
- pump complete with flanged-to motor

4



9.880 361

Magnetic drive pump 15 Watt: Motor 230V, material PP (fibre-glass reinforced), stainless steel (shaft), Viton® (O-ring), tubing connection 14mm
 Magnetic drive pump 29 Watt: Motor 230V, material PP (fibre-glass reinforced), ceramics (shaft), Rulon (guide bearing), Viton® (O-ring), suction/discharge G 3/4" OT (BSP)

Description	Delivery head	Flow rate	PK	Cat. No.
	mWS	L / min.		
15 Watt, without thread	2	12	1	9.880 360 3
29 Watt, with 3/4" outer thread	3	24	1	9.880 361 4

1 Peristaltic pump LLG-uniPERISTALTICPUMP 1

NEW

1

The extra compact peristaltic pump. Ideal for continuous dosing applications. Space-saving, robust and with a wide range of easily exchangeable pump heads.

- Stable flow rates
- **Compact design**
- Reversible working direction
- Pump heads easily exchangeable
- Various pump heads with different hose diameters available as accessory
- Low power consumption
- Corrosion-resistant ABS housing
- OLED display for indication of speed and working direction

Scope of supply: Pump, pump head, PharMed® hose connectors 3 mm ID, 5 mm AD

Specifications

Speed range:	0.1 ... 150 min ⁻¹
Speed accuracy:	±0.1 min ⁻¹
Flow rate range:	0.004 ... 63.69 ml/min
Weight:	0.8 kg
Dimensions (W x D x H):	180 x 115 x 125 mm
IP code:	IP 31
Working temperature range:	0 ... 40 °C
Max. humidity:	80 %
Power rating:	10 W
Power supply:	100 ... 240 V, 50/60 Hz
Warranty:	3 years



Type	Plug type	PK	Cat. No.
LLG-uniPERISTALTICPUMP 1	EU	1	6.263 540
LLG-uniPERISTALTICPUMP 1	UK	1	6.263 541

2 Peristaltic pump LLG-uniPERISTALTICPUMP 3

NEW

2

The peristaltic pump with high pumping capacity. Ideal for continuous dosing applications. Space-saving, robust and with stable flow rate.

- **High pumping capacity of 398 ml/min**
- Reversible working direction
- Hose connectors easily exchangeable
- Low power consumption
- Corrosion-resistant ABS housing
- OLED display for indication of speed and working direction

Scope of supply: Pump, pump head, PharMed® hose connectors 6.4 mm ID, 9.6 mm AD

Specifications

Speed range:	0.1 ... 150 min ⁻¹
Speed accuracy:	±0.1 min ⁻¹
Flow rate range:	0.08 ... 398 ml/min
Weight:	0.8 kg
Dimensions (W x D x H):	190 x 128 x 135 mm
IP code:	IP 31
Working temperature range:	0 ... 40 °C
Max. humidity:	80 %
Power rating:	20 W
Power supply:	100 ... 240 V, 50/60 Hz
Warranty:	3 years



Type	Plug type	PK	Cat. No.
LLG-uniPERISTALTICPUMP 3	EU	1	6.263 550
LLG-uniPERISTALTICPUMP 3	UK	1	6.263 551

Accessories for LLG-uniPERISTALTICPUMP 1 and 3

Description	For	PK	Cat. No.
Pumphead with PharMed® tubing ID 1 mm	LLG-uniPERISTALTICPUMP 1	1	6.263 542
Pumphead with PharMed® tubing ID 2 mm	LLG-uniPERISTALTICPUMP 1	1	6.263 543
Pumphead with PharMed® tubing ID 3 mm	LLG-uniPERISTALTICPUMP 1	1	6.263 544
PharMed® tubing ID 1 mm with connector and Tube Clip	LLG-uniPERISTALTICPUMP 1	1	6.263 546
PharMed® tubing ID 2 mm with connector and Tube Clip	LLG-uniPERISTALTICPUMP 1	1	6.263 547
PharMed® tubing ID 3 mm with connector and Tube Clip	LLG-uniPERISTALTICPUMP 1	1	6.263 548
PharMed® tubing (ID: 3.1mm, OD: 6.3mm) with connector and Tube Clip	LLG-uniPERISTALTICPUMP 3	1	6.263 552
PharMed® tubing (ID: 4.8 mm, OD: 8 mm) with connector and Tube Clip	LLG-uniPERISTALTICPUMP 3	1	6.263 553
PharMed® tubing (ID: 6.4 mm, OD: 9.6 mm) with connector and Tube Clip	LLG-uniPERISTALTICPUMP 3	1	6.263 554

ID = Inner diameter
OD = Outer diameter



1 Laboratory peristaltic pumps, PLP

The behrotest peristaltic pumps PLP are suitable for the transport of watery solutions/non aggressive applications. They find their application in the laboratory, the food industry as well as in the analytical, medicinal or biological field. *Dülabo Laborgeräte*

The RPM (rotation per minute) can be adjusted manually and the flow direction can be amended. These PLP pumps have angle connectors to which tubing can be attached either with or without additional brackets, depending on the tube size.

Type	Flow rate ml/min.	Weight g	PK	Cat. No.
PLP 33	7 - 33	1300	1	9.700 420
PLP 66	17 - 66	1300	1	9.700 421
PLP 330	66 - 400	1300	1	9.700 422
PLP 1000	250 - 1000	1440	1	9.700 423



6.287 159

2 Laboratory peristaltic pumps PLP 38

For the Dülabo peristaltic pump PLP38 there are different pump heads which can be used, this results in flexibility in your day to day usage, enabling multiple tubing sizes being applicable. *Dülabo Laborgeräte*

Depending on the tubing material in use, this pump type can be used for various chemicals, corrosive and aggressive as well as sterile solutions.

The user friendly membrane keyboard enables the user to regulate the flow speed (RPM) using the switch arrays. Furthermore the user can make use of the special button on the membrane keyboard which activates a "quick flow mode".

Via RS485 or other external adapters for other signals, steering the pump externally is also possible. Additionally a foot switch can be attached to the pump to enable the pumping function as long as the foot switch is activated.

Specifications:

Speed:	0.1 to 100 rpm, reversible
Speed precision:	0.1 rpm
Speed control:	Membrane keypad
Display:	3-digit LED displays current rpm
Communication interface:	RS485
Power supply:	90 bis 260 V _{ac} 50/ 60 Hz
Power consumption:	< 30 W
Operating condition:	0 to 40 °C
Relative humidity:	< 80%
Dimensions (L x W x H in mm):	232 x 142 x 149
Drive weight (without Pump Head):	2.3 kg
IP code:	IP 31



6.287 160

Type	Description	Flow rate ml/min.	Rollers	PK	Cat. No.
PLP 38_103	Laboratory peristaltic pump with pump head, 1 channel	0,07 - 380	3	1	6.287 159 2
PLP 38_5061	Laboratory peristaltic pump with pump head, 1 channel	0,00025 - 41	6	1	6.287 160 3



4 Compact peristaltic pumps MS-CA

Flow rate 0.021 to 26ml/min. Simple Click'n'go mini tubing assembly cartridges. *Cole-Parmer GmbH*

- 3-stop colour-coded tubing
- fixed-speed motor
- Dimensions MS-CA2 (W x D x H): 88 x 135 x 125mm
- Dimensions MS-CA4 (W x D x H): 88 x 135 x 145mm

Type	Rotation speed rpm	Flow rate ml/min.	Channels	Rollers	PK	Cat. No.
MS-CA 2/620	20	0.028 - 8.5	2	6	1	9.828 142
MS-CA 2/660	60	0.083 - 26.0	2	6	1	9.828 146
MS-CA 2/640	40	0.055 - 17.0	2	6	1	9.828 144
MS-CA 2/840	40	0.043 - 14	2	8	1	9.828 154
MS-CA 2/820	20	0.021 - 7.1	2	8	1	9.828 152
MS-CA 2/860	60	0.064 - 21.0	2	8	1	9.828 156

1 Peristaltic pumps, Reglo ICC

Independent 4-Channel Control Pump

Cole-Parmer GmbH

- Increased efficiency
- Control of complex pump applications with only one pump
- Controlled by computer or directly through the control panel on the pump
- Continuous pumping and precise dosing
- Flexible bi-directional flow direction in each channel
- Self-priming
- Especially for viscous or foaming liquids, also when containing particles or live cells
- Contamination-free pumping even under sterile conditions

Flow rate: 0.0001 to 43 ml/min
 Differential Pressure: Max. 1.0 bar (14.5 psi)
 Tubes: 3 stoppers 0.13 to 3.17 mm ID



Type	Channels	Rollers	Flow rate ml / min.	PK	Cat. No.
Reglo-ICC	2	6	0.0002 - 43	1	6.287 569
Reglo-ICC	3	6	0.0002 - 43	1	6.287 570
Reglo-ICC	4	6	0.0002 - 43	1	6.287 571
Reglo-ICC	2	8	0.0002 - 35	1	6.264 156
Reglo-ICC	3	8	0.0002 - 35	1	9.828 487
Reglo-ICC	4	8	0.0002 - 35	1	4.012 977
Reglo-ICC	2	12	0.0001 - 24	1	6.283 719
Reglo-ICC	3	12	0.0001 - 24	1	6.287 572
Reglo-ICC	4	12	0.0001 - 24	1	6.282 379

Pumps, peristaltic, Ecoline

Flow rate 0.003 to 5400 ml/min. Robust and economical tube pump with a large flow rate range. Stainless steel housing. Easy handling. For all applications in laboratory and industry. Microprocessor-controlled drive and 2-digit digipot for precise speed adjustment. Analogue interface for start/stop and direction of rotation (potential-free contact) as well as speed (0 to 5 V, 0 to 10 V or 0 to 20 mA, 4 to 20 mA). Variable speed drive.

Cole-Parmer GmbH

Ecoline VC-280:

Economical, basic, single-channel drive model for flow rates up to 5.4 l/min with variable speed.

Ecoline VC-280, Ecoline VC-360 and VC-380:

1-channel tubing pumps, for 1.6 mm wall thickness tube.

Ecoline VC-281 and VC381:

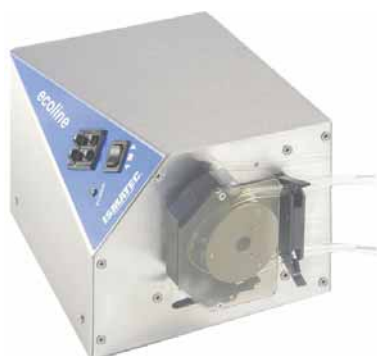
1-channel tubing pumps, for 2.4 mm wall thickness tube.

Ecoline VC-drive without pump heads:

- combinable with Easy-Load®, MS/CA 8-6 and MS/CA 4-12 pumpheads.

Type	To fit tubing mm	Flow rate ml / min.	Channels	Rollers	PK	Cat. No.
VC-280 II	1.6 - 11.1	1.7 - 5400	1	2	1	9.828 513
VC-360 II	0.8 - 6.4	0.25 - 1300	1	3	1	9.828 514
VC-380 II	1.6 - 11.1	1.6 - 5000	1	3	1	9.828 515
ECOLINE VC-drive	-	-	-	-	1	9.828 516
Easy-Load®	0.8 - 8.0	0.23 - 1600	1	3	1	9.828 391
MS/CA 8-6	0.13 - 3.17	0.005 - 150	8	6	1	9.828 376
MS/CA 4-12	0.13 - 3.17	0.003 - 83	4	12	1	9.828 378
VC-281	4.8 - 9.5	13 - 4600	1	2	1	6.287 568
VC-381	4.8 - 9.5	12 - 4200	1	3	1	7.621 423

2



9.828 514

3



9.828 515



4.671 781



4.671 782



4.671 769



4.671 777

Peristaltic pump-Sets rotarus®

NEW

Hirschmann

Sets with peristaltic pump and pump head. The speed and the most important parameters can be programmed directly on the housing front on a TFT touchscreen. Simple and easy loading of the tubing.

Peristaltic pump smart 30 + Single-channel pump head PKF 60-16-3: For endless hoses, for low viscosity media.

Peristaltic pump smart 30 + Multi-channel pump head MKF 60-4-8: For stopper hoses, for low viscosity media. Sturdy hose cassettes with screws for precise adjustment of the delivery rate.

Peristaltic pump smart 40 + Single-channel pump head PKF 60-24-3: For endless hoses. Due to the 2-stage planetary gearbox ideally suited for media with higher viscosity.

Please order tubing separately.

Description	PK	Cat. No.
smart 30 + PKF 60-16-3	1	4.671 781 1
smart 30 + MKF 60-4-8	1	4.671 782 2
smart 40 + PKF 60-24-3	1	4.671 783

Further models can be found in our online shop.

Pump heads rotarus®

Hirschmann

For use with all rotarus® peristaltic pumps.

PK: With double-pivoted rollers made of high-grade, medical stainless steel. With RFID-technology for detection and monitoring of pump head and tubing.

MKF 4/8/12: With components made of anodized aluminum and stainless steel. For tubing cassettes, with lateral set screw for the adjustment of the flow rate. With RFID-technology for detection and monitoring of pump head and tubing.

PKF 60/MKF 60: With components made of durable PPS plastics. Simple and easy loading of the tubing. For attaching the pump heads to the rotarus® drives a PKF/MKF 60 adapter set is required. Please order separately.

Type	Description	Channels	Rollers	PK	Cat. No.
PK 10-16	Single channel pump head for tube with wall thickness 1.6mm	1	3	1	9.880 380
PK 10-16-5	Single channel pump head for tube with wall thickness 1.6mm	1	5	1	4.671 769 3
PK 10-24	Single channel pump head for tube with wall thickness 2.4mm	1	3	1	9.880 381
PKF 60-16-3	Single channel pump head for tube with wall thickness 1.6mm	1	3	1	4.671 770
PKF 60-24-3	Single channel pump head for tube with wall thickness 2.4mm	1	3	1	4.671 771
MKF 4-8	4 Channel pump head for stopper tubes	4	8	1	9.880 382
MKF 8-4	8 Channel pump head for stopper tubes	8	4	1	9.880 383
MKF 12-8	12 Channel pump head for stopper tubes	12	8	1	9.880 384
MKF 60-2-8	2 Channel pump head for stopper tubes	2	8	1	4.671 772
MKF 60-4-8	4 Channel pump head for stopper tubes	4	8	1	4.671 773
MKF 60-8-8	8 Channel pump head for stopper tubes	8	8	1	4.671 774
MKF 60-16-2-4	2 Channel pump head for stopper tubes	2	4	1	4.671 775
MKF 60-16-4-4	4 Channel pump head for stopper tubes	4	4	1	4.671 776

Accessories for Pump heads rotarus®

NEW

Hirschmann

Description	For	PK	Cat. No.
Adapter set PKF 60 for feeding pumps, without RFID	PKF 60-16-3 / PKF 60-24-3	1	4.671 777 4
Adapter set PKF 60 for dispensing pumps, with RFID	PKF 60-16-3 / PKF 60-24-3	1	4.671 778
Adapter set MKF 60 for feeding pumps, without RFID	MKF 60-2-8 / MKF 60-4-8 / MKF 60-8-8 / MKF 60-16-2-4 / MKF 60-16-4-4	1	4.671 779
Adapter set MKF 60 for dispensing pumps, with RFID	MKF 60-2-8 / MKF 60-4-8 / MKF 60-8-8 / MKF 60-16-2-4 / MKF 60-16-4-4	1	4.671 780

Further accessories can be found in our online shop.

1 Peristaltic pump tubing, Tygon® LMT-55 with 2 colour-coded bridges

With 2 colour-coded bridges (international standards). Shore: 55. Fits most common peristaltic pump models, e.g. Verder, Ismatec, Watson-Marlow, IKA and Heidolph. *Saint Gobain*

Standard tubing, transparent. Length 380mm. Long working lifespan. Good resistance to acids and alkalis. Food-safe.

1



Colour	Int. diam. mm	Wall thickness mm	PK	Cat. No.
orange-black	0.13	0.90	12	9.208 201
orange-red	0.19	0.90	12	9.208 202
orange-blue	0.25	0.90	12	9.208 203
orange-green	0.38	0.90	12	9.208 204
green-yellow	0.44	0.90	12	9.208 221
orange-yellow	0.51	0.90	12	9.208 205
white-yellow	0.57	0.90	12	6.251 393
orange-white	0.64	0.90	12	9.208 206
black-black	0.76	0.85	12	9.208 207
orange-orange	0.89	0.85	12	9.208 208
white-black	0.95	0.85	12	6.240 570
white-white	1.02	0.85	12	9.208 209
white-red	1.09	0.85	12	6.901 236
red-red	1.14	0.85	12	9.208 210
red-grey	1.22	0.85	12	6.233 930
grey-grey	1.30	0.85	12	9.208 211
yellow-yellow	1.42	0.85	12	9.208 212
yellow-blue	1.52	0.85	12	9.208 219
blue-blue	1.65	0.85	12	9.208 213
blue-green	1.75	0.85	12	6.227 063
green-green	1.85	0.85	12	9.208 214
purple-purple	2.06	0.85	12	9.208 215
purple-black	2.29	0.85	12	9.208 216
purple-orange	2.54	0.85	12	9.208 217
purple-white	2.79	0.85	12	9.208 218
black-white	3.18	0.85	12	9.208 222

Peristaltic pump tubing, Tygon® LMT-55 with 3 colour-coded bridges

With 3 colour-coded bridges (international standards). Shore: 55. Fits most common peristaltic pump models, e.g. Verder, Ismatec, Watson-Marlow, IKA and Heidolph. *Saint Gobain*

Standard tubing, transparent. Length 380mm. Long working lifespan. Good resistance to acids and alkalis. Food-safe.

Colour	Int. diam. mm	Wall thickness mm	PK	Cat. No.
orange-black	0.13	0.90	12	6.056 875
orange-red	0.19	0.90	12	6.800 824
orange-blue	0.25	0.90	12	6.081 419
orange-green	0.38	0.90	12	6.081 420
green-yellow	0.44	0.90	12	7.510 401
orange-yellow	0.51	0.90	12	6.052 441
white-yellow	0.57	0.90	12	6.241 505
orange-white	0.64	0.90	12	6.052 442
black-black	0.76	0.85	12	6.052 443
orange-orange	0.89	0.85	12	6.051 516
white-black	0.95	0.85	12	6.268 656
white-white	1.02	0.85	12	6.078 175
white-red	1.09	0.85	12	6.077 201
red-red	1.14	0.85	12	6.081 424
red-grey	1.55	0.85	12	6.303 689
grey-grey	1.30	0.85	12	9.208 611
yellow-yellow	1.42	0.85	12	6.052 445
yellow-blue	1.52	0.85	12	4.657 440
blue-blue	1.65	0.85	12	7.079 547
blue-green	1.75	0.85	12	6.052 446
green-green	1.85	0.85	12	6.052 447
purple-purple	2.06	0.85	12	6.056 436
purple-black	2.29	0.85	12	7.616 226
purple-orange	2.54	0.85	12	6.052 449
purple-white	2.79	0.85	12	6.081 520
black-white	3.17	0.85	12	6.056 876

1 Pumps, peristaltic, multichannel, precision, IPC, IPC-N-IP and IP-N

Cole-Parmer GmbH

IP and IP-N series, without dispensing features

- Microprocessor controlled
- very precise pumping

IPC and IPC-N series, with dispensing features

- Microprocessor controlled
- very precise pumping
- with "standby-mode" (prevents draining the tubing line e.g. overnight)
- with dispensing and calibration functions

IPC-N and IP-N series

- 4, 8, 12, 16 or 24 channels
- 8 actively driven stainless steel rollers
- Transparent keyboard and LED-display
- Clickánágo cassettes providing defined and repeatable occlusion conditions.
- different tube sizes can be inserted in each channel.
- 2 Stopper tubes
- Differential pressure: 1.0 bar

Specifications IPC and IPC-N:

Motor type:	d.c. motor
Speed:	IPC: 0.4 up to 44 rpm IPC-N: 0.11 up to 11.25 rpm
Speed setting:	1 to 100 %, resolution 0.1 %
Flow rate setting:	in µl/min to ml/min
Input:	30W
Supply requirements:	230V 50Hz, 115V 60Hz (selectable)
Protection class:	IP 30

Specifications IP and IP-N:

Motor type:	d.c. motor
Speed:	IP: 0.4 up to 44 l/min IP-N: 0.11 up to 11.25 l/min
Speed setting:	1 to 100 %, resolution 0.1 % IP; rpm, resolution 0.1rpm IP-N: rpm, resolution 0.03 rpm
Input:	30W
Supply requirements:	230V 50Hz, 115V 60Hz a.c. (selectable)
Protection class:	IP 30

Type	Dimensions (W x D x H) mm	Flow rate ml/min.	Inputs	PK	Cat. No.
IP-4	175 x 180 x 130	0,002 - 44	4	1	9.828 346
IP-8	175 x 220 x 130	0,002 - 44	8	1	9.828 347
IP-12	175 x 260 x 130	0,002 - 44	12	1	9.828 348
IP-16	175 x 300 x 130	0,002 - 44	16	1	9.828 349
IP-24	175 x 380 x 130	0,002 - 44	24	1	9.828 350
IP-N-4	175 x 180 x 130	0,0004 - 11	4	1	9.828 356
IP-N-8	175 x 220 x 130	0,0004 - 11	8	1	9.828 357
IP-N-12	175 x 260 x 130	0,0004 - 11	12	1	9.828 358
IP-N-16	175 x 300 x 130	0,0004 - 11	16	1	9.828 360
IP-N-24	175 x 380 x 130	0,0004 - 11	24	1	9.828 370
Foot switch	-	-	-	1	9.828 476
IPC-4	175 x 180 x 130	0,002 - 44	4	1	9.828 351
IPC-8	175 x 220 x 130	0,002 - 44	8	1	9.828 352
IPC-12	175 x 260 x 130	0,002 - 44	12	1	9.828 353
IPC-16	175 x 300 x 130	0,002 - 44	16	1	9.828 354
IPC-24	175 x 380 x 130	0,002 - 44	24	1	9.828 355
IPC-N-4	175 x 180 x 130	0,0004 - 11	4	1	9.828 361
IPC-N-8	175 x 220 x 130	0,0004 - 11	8	1	9.828 362
IPC-N-12	175 x 260 x 130	0,0004 - 11	12	1	9.828 363
IPC-N-16	175 x 300 x 130	0,0004 - 11	16	1	9.828 364
IPC-N-24	175 x 380 x 130	0,0004 - 11	24	1	9.828 365

1



1 Peristaltic pump drives, BVP-Standard/BVP-Process

Can be combined with over 20 pump-heads for **flow rates of 0.001 to 3700 ml/min (depending on pump-head).**

Cole-Parmer GmbH

For the continuous pumping of liquids and suspensions with up to 60 % solids content according to capacity or time. Analogue interface for Start/Stop, rotation direction, autostart. LED display on BVP Process. Stainless steel housing, dust-tight and water-proof. Dimensions (W X D x H): 155 x 220 x 260mm (without pump-head).

Specifications: BVP Standard

- speed 3.8 to 240 rpm
- speed setting: 1-99.9 %, resolution 0.1%
- protection rating: IP30
- power supply: 230 V/ 50 Hz - 115 V/60Hz
- weight: 5.7kg (without pump head)

Specifications: BVP Process

- speed 1 to 240 rpm
- speed setting: rpm, resolution: 0.1 rpm
- LED display
- protection rating: IP65
- power supply: 100 - 230 VAC/50 - 60 Hz (autom. switching)
- weight: 6.9 kg (without pump head)

1



Type	Flow rate	PK	Cat. No.
	ml / min.		
BVP-Standard	0.003 - 3700	1	9.828 366
BVP-Process	0.001 - 3700	1	9.828 512

2 Single-channel pumpheads for BVP-Standard (-Process) and MCP-Standard (-Process) peristaltic pump drive units

For tubing with max. wall thickness: 1.6mm

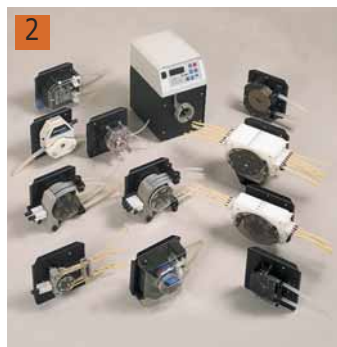
Cole-Parmer GmbH

Pumphead type	Flow rate	Inputs	Rollers	PK	Cat. No.
	ml / min.				
360	0.072 - 530	1	3	1	9.828 371
380	0.44 - 2800	1	3	1	9.828 372
380 AD**	0.41 - 3600	1	3	1	9.828 373
Pro 280	0.49 - 3700	1	2	1	9.828 520
Pro 380	0.45 - 3400	1	3	1	9.828 521
Pro 281*	3.6 - 3100	1	2	1	9.828 394
Pro 381*	3.3 - 2900	1	3	1	9.828 396

* Tubing wall thickness 2.4 mm

**Pump head for tubing wall thickness of 1.6 to 2.4 mm

2



3 Multichannel pumpheads for BVP-Standard/Process and MCP-Standard/Process drive units

Cole-Parmer GmbH

Pumphead type	Flow rate	Inputs	Rollers	PK	Cat. No.
	ml / min.				
SB removable plate	-	-	6	1	9.828 533
SB-3V*	0.09 - 530	3	6	1	9.828 216
SB-2V*	1.1 - 1100	2	6	1	9.828 215

* Removable plate 9.828 533 is required for operation.

3



4 Multichannel pumpheads for BVP-Standard/Process and MCP-Standard/Process drive units

Cole-Parmer GmbH

Pumphead type	Flow rate	Inputs	Rollers	PK	Cat. No.
	ml / min.				
CA4	0,002 - 230	4	8	1	9.828 379
CA12	0,002 - 230	12	8	1	9.828 381
MS/CA8-6*	0,002 - 100	8	6	1	9.828 375
MS/CA4-12**	0,001 - 57	4	12	1	9.828 377
MS/CA8 cartridge block	0,002 - 100	8	6	1	9.828 376
MS/CA4-12 cartridge block	0,001 - 57	4	12	1	9.828 378

*extendible to 24 channels

**extendible to 16 channels

4



1 Peristaltic pump drives, MCP standard/MCP process

Can be combined with over 20 pumpheads for **flow rates of 0.001 to 3700 ml/min (depending on pump-head).**

Cole-Parmer GmbH

Combined peristaltic pump and precise dispenser. Microprocessor controlled, with precise controlled rotation speed and metering unit for 1 to 24 pump channels. The speed (1rpm to 240rpm) is adjustable to 0.1rpm, key-pad with LED-display, programmable. Different dosing modes supply very exact and reproducible results. With RS232 interface, tubing valve operation, dosing handle and foot switch. Can be used for sterile dosing up to 135°C (with adequate tubing). Dimensions (W x D x H): 155mm x 220mm x 260 mm (without pumphead).

Programmable functions:

- ml/min
- drive speed
- drop-free (roller reverse step)
- calibration ml/min (flow rate); ml (volume)
- drive unit on/off

Dosing:

- volume ml
- volume/time unit
- dosing time (0.1s to 999 h)
- intermitten dosing with pre-set pause time;
- number of dosing cycles selectable

Additional functions MCP process:

- programmable sequences
- dust-tight and water-proof

Specifications

Motor type: d.c. motor
 Speed: 1 to 240rpm
 Speed setting: rpm, resolution 0.1rpm
 Flow rate setting: µl/min, ml/min, l/min
 Power consumption: 100W
 Power supply: 100 to 230V, 50 to 60Hz a.c.
 Protection rating: IP65
 Weight: 6.9kg (without pumphead)

MCP-Process

d.c. motor
 1 to 240rpm
 rpm, resolution 0.1rpm
 µl/min, ml/min, l/min
 100W
 100 to 230V, 50 to 60Hz a.c.
 IP65
 6.9kg (without pumphead)

MCP-Standard

Motor type: d.c. motor
 Speed: 1 to 240rpm
 Speed setting: rpm, resolution 0.1rpm
 Flow rate setting: µl/min, ml/min, l/min
 Power consumption: 100W
 Power supply: 230V 50Hz; 115V, 60Hz a.c. selectable
 Protection rating: IP30
 Weight: 6.4kg (without pumphead)

Type	PK	Cat. No.
MCP-Process	1	9.828 510
MCP-Standard	1	9.828 367

1



➔ Suitable pump heads please see page 1049

Analog Pump Drive Hei-FLOW Value

Feed pump for standard applications. The speed is adjustable with the analog control knob and stays constant even under changing loads. *Heidolph*

- Smooth start operation prevents from spills and splashing media
- Feed direction reversible
- For safety in unattended continuous operation, the motor will be switched off in case of an overload situation to prevent overheating
- Optional footswitch to operate pump drive in closed fume hoods and to facilitate filling operations
- Pump heads with convex rollers for cell protection are available for use in cell biology

The pump head is not included. Please order separately.

Specifications

Control accuracy motor:	±2 %
Flow rate accuracy (water without counter pressure):	±5 %
Motor power:	100 W
Permissible ambient conditions:	5 ... 31 °C
Permissible rel. humidity:	80 %
Dimensions (W x D x H):	166 x 256 x 225 mm
Weight:	7.6 kg
Protection class DIN EN 60529:	IP 55

1 Analog Pump drive Hei-FLOW Value 06

This pump drive is only suitable for use with single-channel pump heads. *Heidolph*

Specifications

Speed range:	50 ... 600 rpm
Flow rates single-channel pumps:	4.0 ... 4151 ml/min

Type	PK	Cat. No.
Hei-FLOW Value 06	1	9.829 241

Further models can be found in our online shop.



Single-channel Pump Heads SP standard and SP vario for Pump drives Hei-FLOW

SP standard

- Recommended for standard applications
- Convex rollers do not squeeze or crush organic cell cultures
- Pump head features ball bearings
- Rollers made of stainless steel and polyamide
- For tubes with a 1.6mm or 2.5mm wall thickness (wt)
- Depending on drive and tubing, the flow rate ranges from 2.0 to 4151 ml per minute

SP vario

- Suitable for most Heidolph tubing due to adjustable roller spacing
- Convex rollers do not squeeze or crush organic cell cultures
- Pump head features ball bearings
- Rollers made of stainless steel and aluminum
- Depending on drive and tubing, the flow rate ranges from 2.0 to 4151 ml per minute

Type	Tubing wall thickness	Flow rate ml/min.	PK	Cat. No.
SP standard 1.6*	1.6	0.5 to 3644	1	9.829 254 2
SP standard 2.5*	2.5	0.5 to 3644	1	9.829 255
SP vario**	var.	0.5 to 3644	1	9.829 256 3

* for simple flow requirements.
** rotor with adjustable roller distance.



9.829 254



9.829 256

1 Single-channel Pump Heads SP quick for Pump drives Hei-FLOW

- Fast and convenient tube changes
- Low pulsation due to 5 roller system
- Pump head features ball bearings
- Rollers made of stainless steel
- For tubes with a 1.6mm or 2.5mm wall thickness (wt)
- Depending on drive and tubing, the flow rate ranges from 0.38 to 3436 ml per minute

Heidolph

Type	Tubing wall thickness	Flow rate ml/min.	PK	Cat. No.
SP quick	1.6	0.38 ... 3436	1	9.829 250
SP quick	2.5	0.38 ... 3436	1	9.829 251

1



Multi-channel Pumps for Pump drives Hei-FLOW

- These pump drives are able to be configured for multi-channel use: Value 01, Advantage 01, Precision 01
- Increased output by running up to 12 individual cassettes on one single pump drive and pump head system
- Separate metering into multiple vessels with different feed rates at the same time by using different tubing dimensions to adjust flow rates
- Easy and quick tubing change
- In addition to standard pump heads which feature a 4 roller system, 8 roller pump heads are available for low pulsation
- Easy change of cassettes, even during operation
- Cassettes adjustments and changes are simple due to click system
- With possibility to upgrade the pump drive with an adapter for multi-channel operation

Heidolph

Type	Description	PK	Cat. No.
C4	for max. 4 x small cassettes	1	9.829 285 ²
C8	for max. 8 x medium or 4 x large cassettes	1	9.829 286 ³
C12	for max. 12 x small cassettes	1	9.829 287 ⁴
Cassette, small	Flowrate: 0.005 to 40.8 ml/min	1	9.829 288
Cassette, medium	Flowrate: 0.29 to 25.2 ml/min	1	9.829 289
Cassette, large	Flowrate: 1.0 to 336 ml/min	1	9.829 290

2



9.829 285

3



9.829 286

4



9.829 287

1 Chemically-resistant Liquid Pumps LIQUIPORT®

- Application: Transferring liquids
- Flow rate from 0.2 up to 3 l/min
- Pressure head 10 mWg, suction head 3 mWg
- Self priming, dry running
- Tubing connection for tubing with ID 8 mm for NF 100 and ID 12 mm for NF 300
- Pump heads available in your choice of PP (Typ KT), PVDF (Typ TT) or PTFE (Typ FT), diaphragms available in PTFE, valves in FFKM
- Flow rate can either be set manually (Version S) or both manually and via an external control device (Version RC)

Specifications

Suction head:	3 mWg
Pressure head:	10 mWg
Ambient temp.:	5 ... 40 °C
Liquid temp.:	5 ... 80 °C
Pump head:	optional PP, PVDF or PTFE
Diaphragm:	PTFE-coated
Valves:	FFKM
Supply requirements:	100 ... 230 V, 50/60 Hz

Type	Int. diam. mm	Width mm	Height mm	Depth mm	Flow rate l / min.	Rating W	Weight kg	PK	Cat. No.
NF 100 KT.18 S	8	99	177	130	0.2 ... 1.3	12	1.0	1	9.880 597
NF 100 KT.18 RC	8	99	177	130	0.2 ... 1.3	12	1.0	1	7.627 990
NF 100 TT.18 S	8	99	177	130	0.2 ... 1.3	12	1.0	1	9.880 598
NF 100 FT.18 S	8	99	177	130	0.2 ... 1.3	12	1.0	1	4.664 493
NF 300 KT.18 S	12	104	188	160	0.5 ... 3.0	29	1.5	1	9.880 599
NF 300 TT.18 S	12	104	188	160	0.5 ... 3.0	29	1.5	1	9.880 600
NF 300 FT.18 S	12	104	188	160	0.5 ... 3.0	29	1.5	1	7.634 612

KNF



2 3 Chemically-resistant Diaphragm Dosing Pumps SIMDOS® 02/10

- Application: Metering liquids
- Flow rate from 0.03 up to 100 ml/min/Pressure head 60 mWg, suction head 2 mWg and 3 mWg respectively
- Pump heads available in your choice of PP, PVDF or PTFE-diaphragms available in PTFE, valves in FFKM
- Flow rate can either be set manually (Version S) or both manually and via an external control device as well as with interface RC 232 (Version RCP)
- Additional safety diaphragm for maximum security
- Easy exchange of the transfer diaphragm by activating the maintenance command in the operating program

Advantages:

- Intuitive operation, easy calibration
- Adjustable to liquid characteristics
- Self-priming and dry-running
- Spray water protected IP 65
- Small size

Specifications

Pressure:	6 bar
Allowed ambient temperature:	+5 ... +40 °C
Allowed liquid temperature:	+5 ... +80 °C
Dimensions (WxDxH):	93 x 150 x 144 mm
Pump head:	optional PP, PVDF or PTFE
Diaphragm:	PTFE
Valves:	FFKM
Power supply:	100-240 V, 50-60 Hz
Weight:	0.9 kg

Type	Head	Control	Flow rate	Dosing volume	Max. suction height	PK	Cat. No.
SIMDOS® 02 FEM 1.02KT.18S	PP	S	30 µl/min - 20 ml/min	30 µl - 999 ml	2 m	1	9.880 565
SIMDOS® 02 FEM 1.02KT.18RCP	PP	RC plus	30 µl/min - 20 ml/min	30 µl - 999 ml	2 m	1	7.940 190
SIMDOS® 02 FEM 1.02TT.18S	PVDF	S	30 µl/min - 20 ml/min	30 µl - 999 ml	2 m	1	9.880 567
SIMDOS® 02 FEM 1.02TT.18RCP	PVDF	RC plus	30 µl/min - 20 ml/min	30 µl - 999 ml	2 m	1	6.280 030
SIMDOS® 02 FEM 1.02FT.18S	PTFE	S	30 µl/min - 20 ml/min	30 µl - 999 ml	2 m	1	9.880 569
SIMDOS® 02 FEM 1.02FT.18RCP	PTFE	RC plus	30 µl/min - 20 ml/min	30 µl - 999 ml	2 m	1	6.288 412
SIMDOS® 02 FEM 1.02ST.18S	stainless steel	S	30 µl/min - 20 ml/min	30 µl - 999 ml	2 m	1	7.643 148
SIMDOS® 02 FEM 1.02ST.18RCP	stainless steel	RC plus	30 µl/min - 20 ml/min	30 µl - 999 ml	2 m	1	6.280 334
SIMDOS® 10 FEM 1.10KT.18S2	PP	S	1 - 100 ml/min	1 - 999 ml	3 m	1	6.268 391
SIMDOS® 10 FEM 1.10KT.18RCP2	PP	RC plus	1 - 100 ml/min	1 - 999 ml	3 m	1	6.310 685
SIMDOS® 10 FEM 1.10FT.18RCP2	PTFE	RC plus	1 - 100 ml/min	1 - 999 ml	3 m	1	6.274 454
SIMDOS® 10 FEM 1.10FT.18S2	PTFE	S	1 - 100 ml/min	1 - 999 ml	3 m	1	6.268 389
SIMDOS® 10 FEM 1.10ST.18RCP2	stainless steel	RC plus	1 - 100 ml/min	1 - 999 ml	3 m	1	6.313 297
SIMDOS® 10 FEM 1.10TT.18S2	PVDF	S	1 - 100 ml/min	1 - 999 ml	3 m	1	6.268 393
SIMDOS® 10 FEM 1.10TT.18RCP2	PVDF	RC plus	1 - 100 ml/min	1 - 999 ml	3 m	1	6.285 974

KNF



3



1 Pumps, liquid, ceramic piston, MCP-CPF Process and Reglo-CPF Digital

Flow-rate from 0.025 to 2300 ml/min (depending of the pump head). Operate on a valveless rotating piston principle with liquid pathway materials made of sapphire-hard, chemically inert ceramic (99.7 % Al₂O₃). Ideal for chemically aggressive and viscous or crystallizing materials. Differential pressure up to 6.9 bar. Industrial process-adapted drive, dust- and water-tight, with washdown (IP 65) capability due to completely sealed stainless steel housing. PC-programmed routines can be stored in the pump memory and run without needing a PC.

Cole-Parmer GmbH

Specifications

Motor:	MCP-CPF Process // Reglo-CPF Digital
Rotation speed:	d.c. motor
Speed resolution:	10 to 1800 rpm. // 40 to 1800 rpm
Flowrate setting:	1rpm, 0.1 rpm selectable.
Power rating:	µl/min, ml/min, l/min // µl/min, ml/min
Overall (W x D x H):	100 W // 50 W
Safety protection:	155 x 220 x 260 mm* // 100 x 175 x 135 mm*
Weight:	IP 65 // IP 30
Supply requirements:	6.9 kg* // 2.5 kg
* without pumphead	100 to 230V a.c. 50/ 60 Hz

Type	Width	Depth	Height	Flow rate	PK	Cat. No.
	mm	mm	mm	ml / min.		
MCP-CPF-Process	155	220	260	0.025 - 2300	1	9.828 511
Reglo-CPF Digital	100	175	135	0.08 - 180	1	9.828 368

2 Gyro flask pumpheads for MCP-CPF-Process and Reglo-CPF Digital

Cole-Parmer GmbH

Gyro flask pumpheads for the RH series:

Housing:	Kynar (on request also Tefzel possible)
Connection:	union nut for 6 - 6.4 mm AD tube/LF = UNF 1/4 "-28
Max. Temperature:	100 °C
Bushing and piston:	Ceramic

Type	To fit tubing	Flow rate	Working vol.	Pump head	PK	Cat. No.
	mm	ml / min.	µl			
RH00SKY-LF	i.d. 1.5	0.025 - 45	2.5 - 25	steel SS316	1	9.828 423
RH00KC	o.d. 6.4	0.050 - 90	5 - 50	ceramic	1	9.828 420
RH10KC	o.d. 6.4	0.10 - 180	10 - 100	ceramic	1	9.828 421

Alternative Gyro flask pumpheads RH... and QP... available on request !

1



2



Syringe Pumps Legato®

The Legato® series syringe pumps provide the smoothest most accurate flow available. The intuitive, chemically resistant touch screen enables the user to quickly create configurations and recall them for ease of use. Single syringe, single remote syringe, dual syringe and multirack configurations are available along with the infuse only or infuse/withdraw/continuous operation (model dependent).

KD Scientific

- Single and dual syringe infuse, infuse withdraw & continuous models
- Holds syringe sizes from 0.5ul to 140 ml (Model dependent)
- Flow rates down to the picoliter/min (Model dependent)
- Programmable interface without the need for a PC (Model dependent)
- USB/RS-232/TTL Interfaces for external control (RS232 available on Legato® 200 Series Only)
- Rugged construction with cold rolled steel chassis

Applications: Electrospinning, Flow Cytometry, Microfluidics, Mass Spec, Drug Discovery, Organic Synthesis, Nanofluidics, Stereotaxic Injections

Legato® 100 Single Syringe Infusion Pump: This pump is ideal for applications where a single syringe is used.

Legato® 101 Dual Syringe Nanoliter Pump: This infusion only pump is ideal for applications where dual syringes are required with small volumes under 10ml.

Legato® 110 Single Syringe Infusion/Withdraw Pump: The Legato® 110 is based on the Legato® 100. It offers infuse/withdraw flow control and programmability for up to two multi-step programs of 50 steps each. This pump is ideal for more complex multi-step dosing and has multi-mode operation.

Legato® 110 DRS Dual syringe pump combination: Two Legato® 110 pumps connected by an input/output cable. Both pumps can be started synchronously and operated at different flow rates.

Legato® 180 Dual Syringe Picoliter Infusion/Withdraw Pump: For low flow with program options for 2 programs. 50 steps each. User definable flow rates with selectable target volume or time values to control the total infusion volume.

Legato® 185 Single Syringe Infusion/Withdraw Pump: It offers infuse/withdraw flow control and programmability for up to two multi-step programs of 50 steps each. This pump is ideal for more complex multi-step dosing and has multi-mode operation. Minimum flow rate only 0.54 pl/min.

Legato® 200 Dual Syringe Infusion Pump: This unit supports infuse only. User definable flow rates with selectable target volumes or time values to control the total infusion volume.

Legato® 210 Dual Syringe Infusion/Withdraw Pump: This unit supports infuse only, withdraw only, infuse/withdraw, withdraw/infuse and continuous mode. User defined flow rates with selectable target volumes.

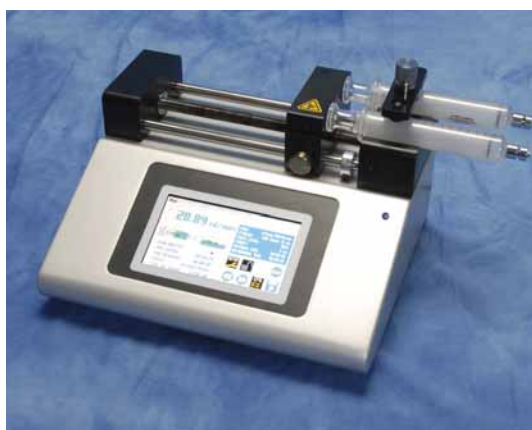
Legato® 210P Dual Syringe Infusion/Withdraw Pump: as Legato® 210, features additional multi-step programming with user defined configurations/programs of up to 1000 steps. Up to 40 programs of 25 steps each can be stored in memory.

Legato® 270P Dual Push/Pull Syringe Pump: as Legato® 210, features additional user defined configurations/programs of up to 800 steps. Up to 40 programs of 20 steps each step can be stored in memory.

Type	For syringes	Flow rate	Dimensions (W x D x H) mm	Weight kg	PK	Cat. No.
Legato® 100	1 (0.5 µl ... 60 ml)	1.26 pl/min* ... 88,28 ml/min	226 x 191 x 150	2.7	1	6.267 706
Legato® 101	2 (0.5 µl ... 10 ml)	1.28 pl/min* ... 25,99 ml/min	226 x 191 x 150	2.7	1	6.267 707 ¹
Legato® 110	1 (0.5 µl ... 60 ml)	1.28 pl/min* ... 88,28 ml/min	226 x 191 x 150	2.7	1	6.267 708 ²
Legato® 180	2 (0.5 µl ... 10 ml)	0.58 pl/min* ... 11,70 ml/min	226 x 191 x 150	2.7	1	6.275 380
Legato® 185	1 (0.5 µl ... 10 ml)	0.54 pl/min* ... 11,70 ml/min	226 x 191 x 150	2.7	1	6.270 180
Legato® 200	2 (0.5 µl ... 140 ml)	3.06 pl/min* ... 215,80 ml/min	279 x 254 x 165	5.0	1	6.267 701
Legato® 210	2 (0.5 µl ... 140 ml)	3.06 pl/min* ... 215,80 ml/min	279 x 254 x 165	5.0	1	6.267 702
Legato® 210P	2 (0.5 µl ... 140 ml)	3.06 pl/min* ... 215,80 ml/min	279 x 254 x 165	5.0	1	6.264 000
Legato® 270P	2 (0.5 µl ... 140 ml)	3.06 pl/min* ... 215,80 ml/min	279 x 254 x 165	5.0	1	4.661 188

*using a 0.5 µl syringe

1



6.267 707

2



6.267 708

Syringe Pumps Legacy®

NEW

KD Scientific

The simple and easy to use Legacy® pumps are a high value solution for delivering precise and smooth flow in research and production applications. The KDS 100 pump gives customers the most cost effective solution for infusing fluids. Alternatively, the KDS 200 gives advanced features with RS232 and TTL interfaces and can be daisy chained together to create a pumping network. KDS 220 holds up to 10 syringes.

- Vibration Elimination System
- Flow Direction Indicator
- Fast Forward/Reverse
- Power Recovery Diagnostics
- Syringe Library
- Flow Rate Selection
- Volume Dispense Mode
- Direct Entry Syringe Diameter
- Optional: Foot Pedal Interface, NIST Certificate, Alarm

KDS 100 Single-Syringe Infusion Pump: Economical pump combining precision flow with outstanding ease-of-use and exceptional durability.

KDS 101 Two-Syringe Nanoliter Pump: For microdialysis and similar applications which require virtually pulseless flow at very low flow rates.

KDS 200 Two-Syringe Infusion Pump: Programmable pump for daisy chain connection. Feature-laden and with a broad speed range and a wide range of syringe sizes it meets the requirements of most laboratory applications.

KDS 220 Multi-Syringe Infusion Pump: For applications requiring multiple syringes. This pump has been modified to hold up to 10 syringes.

Type	For syringes	Flow rate	Dimensions (W x D x H) mm	Weight kg	PK	Cat. No.
KDS 100	1 (10 µl ... 60 ml)	0.1 µl/h ... 423 ml/h	230 x 153 x 130	2	1	6.290 324 ¹
KDS 101	2 (10 µl ... 10 ml)	0.001 µl/min ... 0.351 ml/min	230 x 153 x 130	2	1	6.291 640
KDS 200	2 (10 µl ... 140 ml)	0.001 µl/h ... 8824 ml/h	280 x 235 x 140	4	1	6.237 902
KDS 200*	2 (10 µl ... 140 ml)	0.001 µl/h ... 8824 ml/h	280 x 235 x 140	4	1	6.311 356
KDS 220	≤10 (10 µl ...10 ml)	0.001 µl/h ... 8824 ml/h	280 x 235 x 140	4	1	4.672 169 ²
	≤6 (40 ml ...60 ml)					
	≤4 (100 ml ...140 ml)					

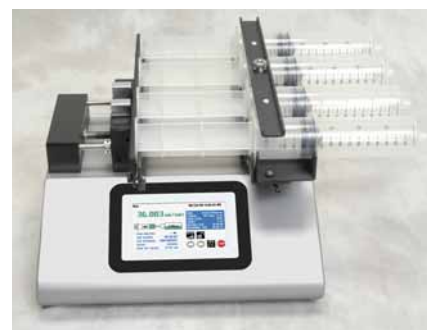
* with CE Mark

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6.290 324

2


4.672 169

3


6.267 704

Multi-Rack for syringe pumps Legato® 200 and Legato® 210

Modular syringe racks can be purchased to create a multichannel syringe pump. These racks will work with the Legato® 200 or Legato® 210 only. All of them could be for infuse only as well.

KD Scientific

Small Syringe Multi-Rack: The small syringe multi-rack will accommodate up to six 30ml to 60ml syringes or up to ten 0.5µl to 20ml syringes. For Infuse/Withdraw applications.

Large Syringe Multi-Rack: The large syringe multi-rack will accommodate up to four 60ml to 140ml plastic syringes. For Infuse/Withdraw applications.

Microliter Syringe Multi-Rack: The microliter syringe multi-rack will accommodate up to four 0.5µl to 10ml syringes. For Infuse/Withdraw applications.

Description	PK	Cat. No.
Small Syringe Multi-Rack	1	6.267 703
Large Syringe Multi-Rack	1	6.267 704 ³
Microliter Syringe Multi-Rack	1	6.267 705

➔ Disposable syringes please see page 1460.

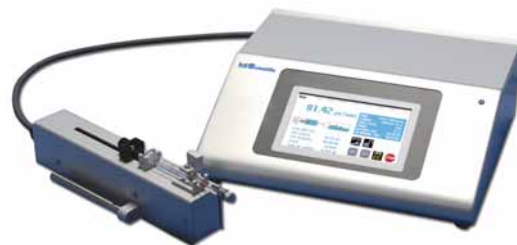
1 Syringe pump Legato® 130

The Legato® 130 Nanoliter pump is ideal for stereotaxic and micro manipulator devices. *KD Scientific*
 The Legato® 130 is an infuse/withdraw single syringe pump. It works with micro syringes from 0.5 to 1000 µl. Any type of syringe can be used including glass and plastic. It has a remote pump head which can be placed close to the experiment to eliminate dead volume with long tubing. The remote pump head is ideal for use with a micromanipulator, stereotaxic and other clamping devices. Syringe size and flow rates are easily displayed as well as the volume delivered and the elapsed time. A wide dynamic flow range from picoliters per minute to milliliters per minute can be programmed into the pump.

- Remote pump head
- Large colour touchscreen display
- 2 programs with 50 steps each
- Icon driven software
- USB, RS-232 and RS485 interface
- Precise and smooth flow

Specifications

Flow rate:	3.66 pl/min to 3.82 ml/min (depending on syringe size)
Accuracy:	±0.5 %
Syringe size:	0.5 to 1000 µl
Dimensions:	9 x 19 x 7.6 mm
Weight:	2 kg
Power supply:	100-240 VAC, 50/60 Hz



Type	PK	Cat. No.
Legato® 130	1	6.287 229

2 3 LLG-Glass-Syringes, borosilicate glass

With brown graduations. Sterilisable up to 134 °C.

Capacity ml	Material Cone	Nozzle type	PK	Cat. No.
1	Glass	Luer-Slip	1	6.272 088
2	Glass	Luer-Slip	1	6.272 089
5	Glass	Luer-Slip	1	6.272 090
10	Glass	Luer-Slip	1	6.272 091
20	Glass	Luer-Slip	1	6.272 092
50	Glass	Luer-Slip	1	6.272 093
1	Metal	Luer-Lock	1	6.272 094
2	Metal	Luer-Lock	1	6.272 095
5	Metal	Luer-Lock	1	6.272 096
10	Metal	Luer-Lock	1	6.272 097
20	Metal	Luer-Lock	1	6.272 098
50	Metal	Luer-Lock	1	6.272 099



4 Tubing Versilic®, Silicone

Versilic® 60 shore tubing is biologically inert and does not inhibit cell culture. It stays flexible down to -50 °C and maintains its chemical, mechanical and electrical performance up to +200 °C. Versilic® meets the European Pharmacopoeia requirements for silicone elastomer for closures and tubing, USP Class VI biological tests and ISO 10993 biocompatibility (systemic toxicity, irritation, sensitization, cytotoxicity, hemocompatibility and Ames test). *Saint Gobain*



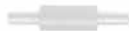
Int. diam. mm	Ext. diam. mm	Wall thickness mm	PK	Cat. No.
0.5	2.5	1.0	1	9.205 300
1.0	3.0	1.0	1	9.205 301
2.0	4.0	1.0	1	9.205 302
3.0	5.0	1.0	1	9.205 303
4.0	6.0	1.0	1	9.205 304
4.0	8.0	2.0	1	9.205 267
5.0	7.0	1.0	1	9.205 305
6.0	9.0	1.5	1	6.236 287
6.0	10.0	2.0	1	9.205 275
7.0	11.0	2.0	1	9.205 306
8.0	11.0	1.5	1	6.235 261
8.0	12.0	2.0	1	9.205 285
9.0	13.0	2.0	1	9.205 307
10.0	14.0	2.0	1	9.205 308
12.0	17.0	2.5	1	9.205 309

1


6.091 193

2


6.800 467

3


6.800 466

4


6.078 174

Adapters for Luer Lock Hub Tubing

Hamilton

Description	PK	Cat. No.
Female Luer/Female Luer	1	6.091 193 1
Female Luer/Male Luer	1	6.800 467 2
Female Luer/Male Luer Lock	1	6.287 085
Female Luer/1/4"-20 UNC	1	6.287 087
Female Luer closure	1	6.800 447
Male Luer/Male Luer	1	6.800 466 3
Male Luer Lock/Male Luer	1	6.241 919
Male Luer Lock/Male Luer Lock	1	6.078 174 4
Male Luer Lock/1/8"-NPT	1	6.287 086
Male Luer Lock/1/4"-28 UNF	1	6.083 814

5


5 Luer Lock Hub Tubing Assemblies, 1 Hub, 300 mm

The tubing is 300 mm in length but can be trimmed shorter to a desired length.

Hamilton

Gauge	Ext. diam. mm	Int. diam. mm	Material	PK	Cat. No.
30	0.75	0.35	PTFE	1	6.071 810
28	0.86	0.40	PTFE	1	6.206 417
24	1.12	0.59	PTFE	1	6.287 133
22	1.23	0.71	PTFE	1	6.071 809
20	1.50	0.91	PTFE	1	6.231 359
19	1.83	1.02	PTFE	1	6.071 808
18	1.68	1.07	PTFE	1	6.300 542
17	1.62	1.02	PTFE	1	6.287 132
16	2.02	1.42	PTFE	1	6.231 356
15	2.17	1.57	PTFE	1	6.287 131
14	2.35	1.75	PTFE	1	7.612 023
13	2.54	1.95	PTFE	1	6.287 130
12	2.77	2.16	PTFE	1	6.287 129
11	3.04	2.44	PTFE	1	6.287 128
10	3.33	2.72	PTFE	1	6.287 127
9	3.76	3.02	PTFE	1	6.287 126
8	4.19	3.43	PTFE	1	6.287 125
7	4.60	3.84	PTFE	1	7.611 570

6


6 Luer Lock Hub Tubing Assemblies, 1 Hub, 500 mm

The tubing is 500 mm in length but can be trimmed shorter to a desired length. Further tubing lengths available on request.

Hamilton

Gauge	Ext. diam. mm	Int. diam. mm	Material	PK	Cat. No.
30	0.75	0.35	PTFE	1	6.250 028
28	0.86	0.40	PTFE	1	6.287 102
26	0.91	0.46	PTFE	1	6.287 101
24	1.12	0.59	PTFE	1	6.287 100
22	1.23	0.71	PTFE	1	6.287 099
20	1.50	0.91	PTFE	1	6.287 098
19	1.83	1.02	PTFE	1	6.287 097
18	1.68	1.07	PTFE	1	6.204 854
17	1.62	1.02	PTFE	1	6.204 855
16	2.02	1.42	PTFE	1	6.204 856
15	2.17	1.57	PTFE	1	6.287 096
14	2.35	1.75	PTFE	1	6.287 095
13	2.54	1.95	PTFE	1	6.287 094
12	2.77	2.16	PTFE	1	6.287 093
11	3.04	2.44	PTFE	1	6.287 092
10	3.33	2.72	PTFE	1	6.287 091
9	3.76	3.02	PTFE	1	6.287 090
8	4.19	3.43	PTFE	1	6.287 089
7	4.60	3.84	PTFE	1	6.287 088

7


6.800 626

Removable Adapters (RN) for Luer Lock Hub Tubing

For 250 µl RN needle syringes and larger. Port diameter 1.5 mm, Inert Gas Sampling Valve 1 mm.

Hamilton

Description	PK	Cat. No.
Male Luer	1	6.079 139
Male Luer Lock	1	6.305 865
Female Luer	1	6.306 806
Inert Gas Sampling Valve	1	6.800 626 7