

## Volumetric apparatus/Measuring cylinders



9.274 176

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

Borosilicate glass 3.3. Conformity certified with batch ID. To DIN EN ISO 4788, DIN 12680. High form, hexagonal foot with spout. Calibrated to contain (IN) and all the tolerances are according to DIN/ISO Class A standards.

ISOLAB

Capacity	Tolerance	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 1
1000	5.00	470	1	9.274 177
2000	10.00	570	1	9.274 178



9.274 184

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

Hirschmann

For those products batch calibration reports, which are free of charge, can be generated and printed on [www.hirschmannlab.com](http://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 2
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).



9.274 138

### 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 3
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 **NEW**

DIN EN ISO 4788, DE-M marking. Calibrated to contain (IN). Ring marks at major graduations. 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.

BRAND



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

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

IN (TC) calibrated. With spout and hexagonal glass base. Main point ring graduation. 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.

Hirschmann



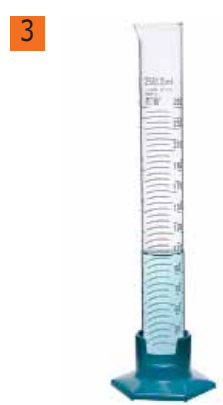
Capacity	Grad.	Tolerance	Height	PK	Cat. No.
ml	ml	± ml	mm		
5	0.1	0.05	115	1	6.901 399
10	0.2	0.1	140	1	6.250 413
25	0.5	0.25	170	1	6.700 903
50	1.0	0.5	200	1	6.201 104
100	1.0	0.5	260	1	6.303 988
250	2.0	1.0	335	1	6.250 483
500	5.0	2.5	390	1	6.222 339
1000	10.0	5.0	470	1	6.200 496
2000	20.0	10.0	500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

6.303 988

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

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

ISOLAB



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

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

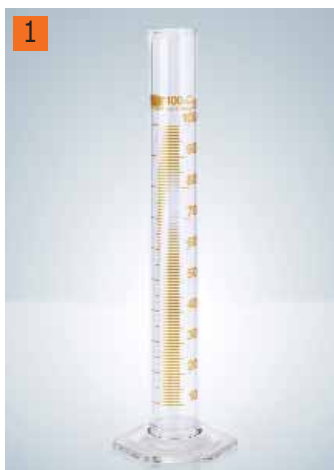
IN (TD) calibrated. With spout and hexagonal glass base, short line. Tolerances better than class B requirements. Graduation in durable blue enamel, acc. to DIN EN ISO 4788.

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

9.274 202



6.510 180

### 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 1
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.



9.274 038

### 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 2
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



9.274 193

### 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 3
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



9.274 084

### Measuring cylinders, PP, tall form, class B, blue graduated

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.

ISOLAB

Capacity	Tolerance	Height	PK	Cat. No.
ml	± ml	mm		
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 4
500	5.000	380	1	9.274 085
1000	10.000	465	1	9.274 086

### 1 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	Tolerance	Grad.	Height	PK	Cat. No.
ml	± ml	ml	mm		
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



### Graduated cylinders, PP, class B, embossed scale

**NEW**

BRAND

Tall form, PP, with spout, high clarity. DIN 12681 and ISO 6706. Calibrated to contain (TC, In). 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.

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



9.274 762

### 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 (suitable for contact with foodstuff in accordance with Regulation (EC) 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



9.274 411

## Volumetric apparatus/Measuring cylinders



9.274 438

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

Tall form. Highly transparent. With a raised scale and ring marks at the primary scale points, calibrated In'.

VITLAB

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 (suitable for contact with foodstuff in accordance with Regulation EC 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 1
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



### Measuring cylinders, PP, with handle, moulded graduations

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

Bel-Art Products

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



9.274 792

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

Tall form. PMP. Class A DIN 12681 and ISO 6706. Transparent, with blue printed graduations and inscriptions. 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.

BRAND

Conformity certified. With batch number and one batch certificate in the manufacturers outer pack. Single calibration reports or DAKkS certificates are available on request. The batch certificate is available to download from the manufacturer's website.

Class A tolerance is not affected even after 20 washes and 10 autoclave treatments. (DIN 12681 requires: 10 washes and 3 autoclave treatments).

Capacity	Grad.	Tolerance	Height	PK	Cat. No.
ml	ml	± ml	mm		
10	0.2	0.10	145	1	9.274 790
25	0.5	0.25	170	1	9.274 791
50	1	0.5	200	1	9.274 792 3
100	1	0.5	250	1	9.274 793
250	2	1.0	315	1	9.274 794
500	5	2.5	360	1	9.274 795
1000	10	5	440	1	9.274 796
2000	20	10	535	1	9.274 797



7.008 999

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

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 (suitable for contact with foodstuff in accordance with Regulation EC No. 10/2011).

VITLAB

Capacity	Grad.	Tolerance	Diam.	Height	PK	Cat. No.
ml	ml	± ml	mm	mm		
25	0,50	0,50	22	122	1	7.060 690
50	1,00	1,00	27	142	1	7.060 691
100	2,00	2,00	37	163	1	7.008 999 4
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

Volumetric apparatus/Measuring cylinders-Mixing cylinders

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

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 (suitable for contact with foodstuff in accordance with Regulation EC No. 10/2011).

VITLAB

Capacity	Grad.	Tolerance	Diam.	Height	PK	Cat. No.
ml	ml	± ml	mm	mm		
10	0,20	0,20	16	140	1	7.009 005
50	1,00	1,00	28	199	1	7.009 011
100	1,00	1,00	34	260	1	7.009 014 1
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



7.009 014

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

Borosilicate glass 3.3. Tall form. Conformity certified, with certified batch number. PP stoppers and hexagonal foot. To DIN EN ISO 4788, DIN 12680.

ISOLAB

Capacity	Tolerance	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 2
500	2.500	395	1	9.275 075
1000	5.000	510	1	9.275 076



9.275 074

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

BLAUBRAND®. To DIN EN ISO 4788. DE-M marking, with works certified batch number. PP stoppers and hexagonal foot. Graduations and inscriptions in highly contrasting blue enamel. Calibrated to contain (IN). Height given is overall height without stopper. All BLAUBRAND® cylinders are delivered with batch number and one batch certificate is included in the manufacturer's outer pack. Individual works, USP, or DAkkS calibration certificates are also available on request. The batch certificate is also available to download from the supplier's website.

BRAND

Capacity	Grad.	Height	Neck	PK	Cat. No.
ml	ml	mm	NS		
10	0.2	160	10/19	1	9.275 208
25	0.5	190	14/23	1	9.275 220
50	1	220	19/26	1	9.275 228
100	1	285	24/29	1	9.275 238 3
250	2	350	29/32	1	9.275 248
500*	5	395	34/35	1	9.275 254
1000*	10	500	45/40	1	9.275 262

\* Fitted with PE octagonal stoppers.



9.275 238

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

SILBERBRAND Eterna. Class B. To DIN EN ISO 4788. With PP stoppers and hexagonal foot. Graduations and inscriptions in Eterna amber stain. Calibrated to contain (IN). Height given is overall height without stopper

BRAND

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 4
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.



9.275 038



7.930 291

### Volumetric trapezoidal flasks, Borosilicate glass 3.3, class A, blue graduated

Borosilicate glass 3.3. Conformity certified, with batch certificate. Trapezoidal. With NS and PP stoppers, to DIN 12664-2, to DIN EN ISO 1042.

ISOLAB

Capacity ml	Tolerance ± ml	Joint size (NS)	PK	Cat. No.
1	0.025	7/16	1	6.237 705
2	0.025	7/16	1	6.236 426
3	0.025	7/16	1	7.930 290
4	0.025	7/16	1	7.930 291 1
20	0.025	10/19	1	6.258 795
25	0.025	10/19	1	6.258 796
10	0.025	10/19	1	6.282 640



9.276 652

### Volumetric trapezoidal flasks, DURAN®, class A, blue graduation

IN (TD) calibrated. With dated batch identification. Declaration of conformity acc. to DIN 12600. NS ground with poly stopper. Ring mark and graduation in high contrasting blue enamel. 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](http://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 2
50	0.06	140	12/21	1	9.276 653

\* wide neck.



9.276 008

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

BLAUBRAND®, DIN EN ISO 1042.

BRAND

DE-M marking. With batch number. Graduations and inscriptions in highly contrasting blue enamel. Calibrated to contain (IN). With PP stoppers. 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. 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.

Capacity ml	Tolerance ± ml	Joint size (NS)	PK	Cat. No.
1	0.025	7/16	1	9.276 001
2	0.025	7/16	1	9.276 002
5	0.025	7/16	1	9.276 003
10*	0.04	10/19	1	9.276 004
20	0.04	10/19	1	9.276 006
25	0.04	10/19	1	9.276 007
50	0.06	12/21	1	9.276 008 3

\* Wide neck version

### Volumetric flasks, borosilicate glass 3.3, class A, blue graduated, with PP stoppers

Borosilicate glass 3.3. Conformity certified, with batch certificate. With NS and PP stoppers, to DIN 12664-2, 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	0.040	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	0.100	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



9.276 610

### Volumetric flasks, borosilicate glass 3.3, class A, blue graduations, with PP stoppers

BLAUBRAND®, Class A. DIN EN ISO 1042. DE-M marking with certified batch number. Ring marks and inscriptions in highly contrasting blue enamel. Calibrated to contain (IN). PP 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

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



9.276 451

\*wide neck version  
\*\*Supplementary to DIN.







7.018 541

### 1 Volumetric flasks, borosilicate glass 3.3, class A, blue graduations, with glass stoppers

**NEW**

BLAUBRAND®, Class A. DIN EN ISO 1042. BRAND  
 DE-M marking with certified batch number. Ring marks and inscriptions in highly contrasting blue enamel. Calibrated to contain (IN). 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.

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 <sup>1</sup>
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

\*wide neck version



### 2 Volumetric flasks USP, borosilicate glass 3.3, class A, blue graduations

**NEW**

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



#### Volumetric flasks, DURAN®, tall form, class A, blue graduation, with PE stoppers

IN (TD) calibrated. With dated batch identification. Declaration of conformity acc. to DIN 12600. Hirschmann  
 With NS ground and polystopper. Ring mark and graduation in durable blue enamel, acc. 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	9.276 680
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 1
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)



9.276 692

#### 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. 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 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 2
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.



9.276 482

We can supply this  
 manufacturer's  
 whole  
 product range !



# HIRSCHMANN®



9.276 767

### 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. *Hirschmann*  
 NS ground with polystopper. With durable amber stain graduation. 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](http://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*	0.04	70	10/19	1	9.276 758
10*	0.04	90	10/19	1	9.276 759
20	0.04	110	10/19	1	9.276 760
25	0.04	110	10/19	1	9.276 761
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 1
500	0.25	260	19/26	1	9.276 768
1000	0.4	300	24/29	1	9.276 769
2000	0.6	370	29/32	1	9.276 770

\* wide neck



### 2 Check flasks, DAkkS calibrated, borosilicate glass 3.3, class A, with 3 marks, blue graduations

BLAUBRAND®, DIN EN ISO 1042. Calibrated to contain (TC, IN). DAkkS (former DKD) certificate included. The volumetric flask with 3 marks is used to check the functioning of a dispenser. The mark in the middle shows the nominal volume, the upper and lower marks show the error limits as specified in the table below. If the error limit is exceeded even with repeated measurements, the dispenser is defective. The DAkkS-calibrated volumetric flask does not replace the gravimetric test of the monitoring of measuring instruments according to ISO 8655. *BRAND*

For volume ml	upper/lower mark ± ml	Joint size (NS)	PK	Cat. No.
10	0.070	10/19*	1	9.276 010
25	0.175	10/19	1	9.276 011
50	0.35	12/21	1	9.276 012
100	0.70	14/23	1	9.276 013

\* Neck/ground socket connection enlarged, other sizes on demand.



9.276 630

### Volumetric flasks, borosilicate glass, amber, class A, white graduated, with PP stoppers

Amber Borosilicate glass with PP stoppers, DE-M marking, with batch certificate and white enamel graduations. According to DIN EN ISO 1042, DIN 12664-2. Calibrated to contain (IN) and all the tolerances are according to DIN/ISO Class A standards. *ISOLAB*

Capacity ml	Tolerance ± ml	Joint size (NS)	PK	Cat. No.
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	0.040	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 3
1000	0.400	24/29	1	9.276 631
2000	0.600	29/32	1	4.008 306

#### Volumetric flasks, borosilicate glass 3.3, class A, PUR Plastic coated, blue graduations

BLAUBRAND® PURprotect, DE-M marking. Boro 3.3. DIN EN ISO 1042. Calibrated to contain (TC, IN). Ring mark and inscriptions in high contrast blue enamel. With PP stopper. The plain and high quality PUR coating envelops the volumetric flasks like a protective skin. In the event of breakage, the safety coating helps contain the glass fragments. The light blue coating facilitates optical distinction. Suitable for dishwashers (cleaning up to max. 95 °C). All BLAUBRAND® volumetric flasks are supplied with a batch number and an accompanying batch certificate within the outer packaging. They are also available with individual works, or DAKKS (former DKD) calibration certificate on request. With the exception of the wide neck version, the graduated flasks with individual USPCertificate are available on request. Date of delivery on request. The batch certificate is also available to download from the manufacturer's website.

BRAND

Capacity ml	Tolerance ± ml	Joint size (NS)	PK	Cat. No.
50*	0.10	14/23	1	9.276 460
100	0.10	14/23	1	9.276 461
200	0.15	14/23	1	9.276 462
250	0.15	14/23	1	9.276 463
500	0.25	19/26	1	9.276 464 1
1000	0.40	24/29	1	9.276 465

\*wide mouth  
Further sizes available on request.



9.276 464

#### 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. 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.

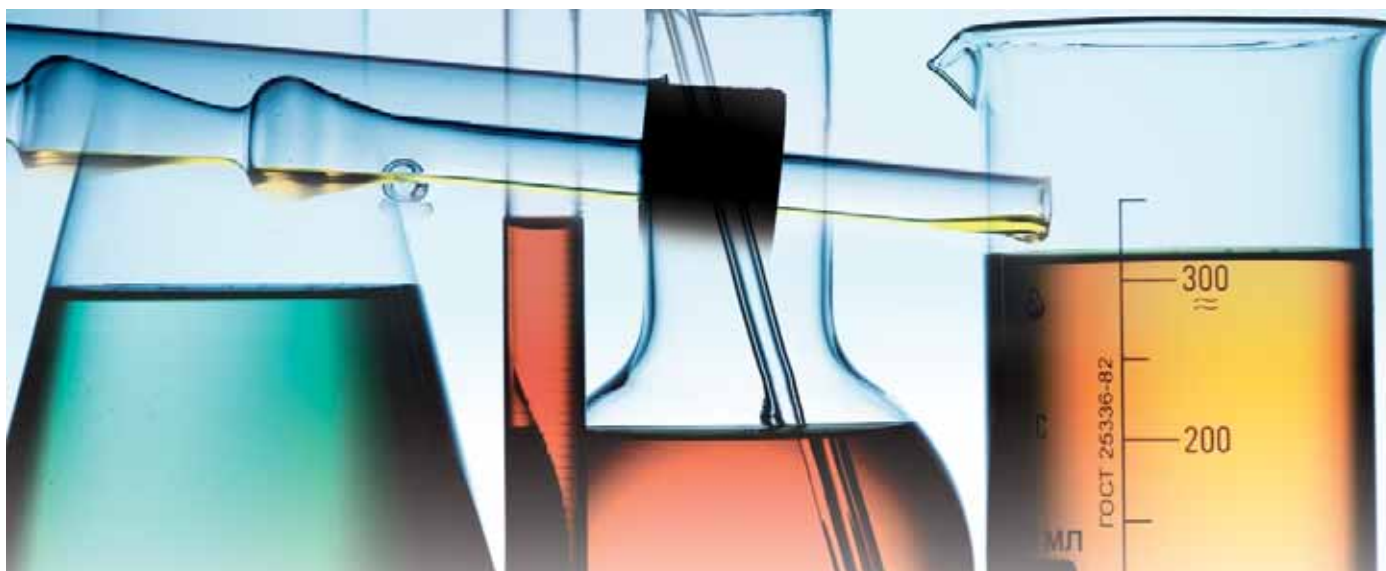
BRAND

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 2
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 neck version



9.276 272





9.276 708

### Volumetric flasks, DURAN® amber glass, class A, with polystopper

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](http://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 1
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).



9.276 511

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

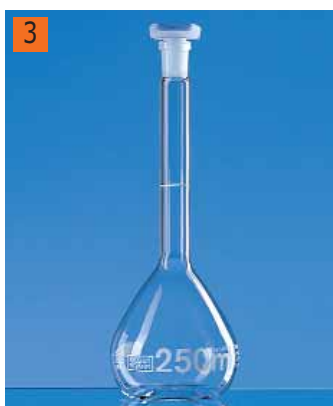
IN (TD) calibrated. With dated batch identification. Declaration of conformity acc. to DIN 12600. With hollow amber glass stopper. Ring mark and graduation in white enamel. According to DIN EN ISO 1042.

Hirschmann

For these products batch calibration reports, which are free of charge, can be generated and printed on [www.hirschmannlab.com](http://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 2
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.



9.276 251

### Volumetric flasks, borosilicate glass 3.3, Class B.

SILBERBRAND. To DIN EN ISO 1042. Graduation and inscriptions in highly contrasting white enamel. Calibrated to contain (IN). With PP stoppers.

BRAND

Capacity ml	Tolerance ± ml	Joint size (NS)	PK	Cat. No.
10*	0.06	10/19	1	9.276 243
20	0.06	10/19	1	9.276 246
25	0.06	10/19	1	9.276 247
50	0.09	12/21	1	9.276 248
100	0.15	12/21	1	9.276 249
200	0.25	14/23	1	9.276 250
250	0.25	14/23	1	9.276 251 3
500	0.40	19/26	1	9.276 252
1000	0.60	24/29	1	9.276 253
2000	0.90	29/32	1	9.276 254
5000	1.80	34/35	1	9.276 255

\* Wide neck

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

IN (TD) calibrated. With beaded rim and dated batch identification.

Hirschmann

Declaration of conformity acc. to DIN 12600. 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](http://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 1
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



9.276 734

#### 2 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  $\pm 0.2$  ml. Calibrated to contain (IN).

BRAND

Subdivisions: 0 to 5 ml : 0.1 ml, tolerance:  $\pm 0.1$  ml.  
Subdivisions: 5 to 30 ml : 0.5 ml, tolerance:  $\pm 0.5$  ml.

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



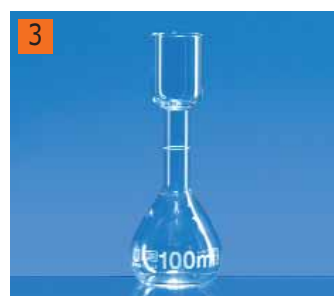
#### Volumetric flasks for sugar tests, Borosilicate glass 3.3, class B, white graduated

For sugar tests in the style of Kohlrausch. SILBERBRAND.

BRAND

Tolerance equivalent to class B. Ring marks and inscriptions in highly contrasting white enamel. Calibrated to contain (IN).

Capacity ml	Tolerance ± ml	PK	Cat. No.
100	0.2	1	9.276 885 3
200	0.3	1	9.276 887



9.276 885

#### Volumetric flasks, PMP, class A

With NS stoppers, PP. Crystal clear. With ring mark individually calibrated to (IN).

VITLAB

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 ± 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 4
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



9.276 952


**1**

### 1 Volumetric flasks, plastic, class B, PP NS-stoppers

To DIN EN ISO 1042, with individually adjusted, blue printed graduation and inscriptions, with PP 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


**2**

### 2 Volumetric flasks, PP, Class B, NS-stoppers PP

Highly transparent. With ring mark individually calibrated to In'. 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.

VITLAB

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


**3**

### 3 Kipp dispenser heads, DURAN® tubing

Made of DURAN® tubing.  
Dispenser heads for kipp dispensers, with cone NS 29/32

Description	PK	Cat. No.
Dispenser head for Kipp dispenser 5 ml	1	9.277 105
Dispenser head for Kipp dispenser 10 ml	1	9.277 110
Dispenser head for Kipp dispenser 20 ml	1	9.277 120
Dispenser head for Kipp dispenser 25 ml	1	9.277 125
Dispenser head for Kipp dispenser 50 ml	1	9.277 150
Reservoir bottle for dispenser heads	1	6.224 318



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

Soda glass. Conformity-certified. With batch date identification.  
DIN EN ISO 648, DIN 12687 and BS 700 - 1583. Calibrated to deliver (EX).  
Ring mark and inscriptions in permanent blue enamel.

Volume	Tolerance	Length	PK	Cat. No.
ml	± ml	mm		
1	0.007	310	1	9.272 260
2	0.010	330	1	9.272 261
3	0.010	360	1	9.272 262
4	0.015	360	1	9.272 263
5	0.015	400	1	9.272 264
10	0.020	440	1	9.272 265
11	0.020	440	1	9.272 266
15	0.030	455	1	9.272 267
20	0.030	510	1	9.272 268
25	0.030	520	1	9.272 269
50	0.050	540	1	9.272 270 <b>1</b>



9.272 270

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

EX (TD) calibrated. With dated batch identification. Declaration of conformity acc. to DIN 12600. One mark pipettes, graduation in high-contrast blue colour. 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](http://www.hirschmannlab.com). Additional single calibration reports or DAkkS certificates (former DKD calibration reports) are available.

Volume	Tolerance	Overall length	PK	Cat. No.
ml	± ml	± 10 mm		
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 <b>2</b>
50	0.05	550	1	9.273 286
100	0.08	600	1	9.273 288

\* Supplementary to DIN.



9.273 284

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

BLAUBRAND®, DIN EN ISO 648. *BRAND*  
DE-M marking. With batch number. Graduations and inscriptions in highly contrasting blue enamel. Calibrated to deliver (EX).  
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 ml: 6 cylinders per pack). Also available with individual certificate or DAkkS (former DKD) calibration certificate, please enquire.

Volume	Tolerance	Overall length	PK	Cat. No.
ml	± ml	± 10 mm		
0,5	0.005	300	1	9.273 101
1	0.008	300	1	9.273 102
2	0.010	330	1	9.273 103
2,5	0.010	330	1	9.273 104
3	0.010	330	1	9.273 105
4	0.015	400	1	9.273 106
5	0.015	400	1	9.273 107
6	0.015	400	1	9.273 108
7	0.015	400	1	9.273 109
8	0.02	440	1	9.273 110
9	0.02	440	1	9.273 111
10	0.02	440	1	9.273 112
15	0.03	510	1	9.273 113
20	0.03	510	1	9.273 114
25	0.03	520	1	9.273 115 <b>3</b>
30	0.03	520	1	9.273 116
40	0.05	540	1	9.273 117
50	0.05	540	1	9.273 118
100	0.08	585*	1	9.273 119

\* ±15 mm



9.273 115





6.262 530

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

BRAND

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 1
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



6.084 072

### 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.  
 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

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 2
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).

## 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 <b>1</b>
50	0.05	540	1	9.273 226



9.273 225

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

EX (TD) calibrated. Volume between two marks (partial delivery). 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. Hirschmann  
 For those products, batch calibration reports, which are free of charge, can be generated and printed on [www.hirschmannlab.com](http://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 <b>2</b>
50	0.05	550	1	6.801 024
100	0.08	600	1	6.800 124

\* Supplementary to DIN.



6.801 023

## 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 <b>3</b>
50.0	0.05	540	1	9.273 138



9.273 135



1

### 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 1
50	0.075	550	1	9.273 268
100	0.12	600	1	9.273 269

\* Supplementary to DIN.

9.273 266



2

### 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	9.273 001
1	0.010	300	1	9.273 002
2	0.015	330	1	9.273 003
3	0.015	330	1	9.273 005
5	0.025	400	1	9.273 007
10	0.03	440	1	9.273 012
15	0.04	510	1	9.273 013
20	0.04	510	1	9.273 014
25	0.04	520	1	9.273 015 2
50	0.07	540	1	9.273 018
100	0.12	585*	1	9.273 019

\* ±15 mm

9.273 015



3

### 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.

BRAND

Cleaning at temperatures below 60 °C is recommended to preserve graduations and inscriptions.

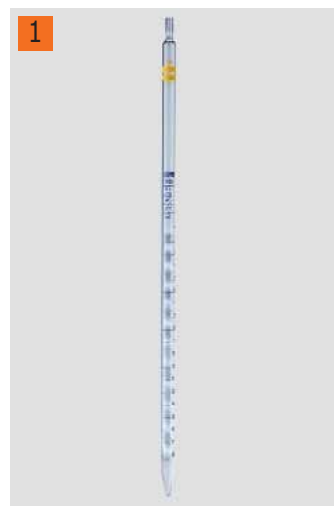
Volume ml	Tolerance ± ml	Overall length ± 10 mm	PK	Cat. No.
1	0.02	300	1	9.273 232
2	0.02	300	1	9.273 233
5	0.03	300	1	9.273 235
10	0.04	440	1	9.273 236
25	0.06	450	1	9.273 238 3
50	0.1	460	1	9.273 239

9.273 238

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

Soda glass. Conformity-certified. With batch date identification. DIN EN ISO 835, DIN 12699 and BS700 - 1583. Calibrated to deliver (EX). Ring marks and graduations in permanent blue enamel.

Volume	Graduations	Tolerance	Length	PK	Cat. No.
ml	ml	± ml	mm		
1	0.01	0.007	360	1	9.272 250
2	0.02	0.010	360	1	9.272 251
5	0.05	0.030	360	1	9.272 252
10	0.1	0.050	360	1	9.272 253
20	0.1	0.100	450	1	9.272 254 1
25	0.1	0.100	450	1	9.272 255
50	0.1	0.200	720	1	9.272 256



9.272 254

## 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](http://www.hirschmannlab.com). Additional single calibration reports or DAkkS certificates (former DKD calibration reports) are available.

Volume	Grad.	Tolerance	Overall length	PK	Cat. No.
ml	ml	± ml	± 5 mm		
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 2
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



9.272 389

## Graduated pipettes, Class AS, AR-glas®, blue graduation, type 3 (zero at top)

BLAUBRAND®, DIN EN ISO 835. Type 3 (Zero at top). DE-M marking, with batch number. Delivery to tip. Adjusted to EX. Waiting time 5 seconds. Ring mark and inscriptions in high contrast, blue enamel. *BRAND*  
 One batch certificate included per standard pack.  
 The batch certificate is also available to download from the manufacturer's website.

Volume	Grad.	Tolerance	Length (± 10mm)	PK	Cat. No.
ml	ml	± ml	mm		
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 3
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

\* Supplementary to ISO.

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

\*\*\*Cotton plugged



9.272 113



9.272 036

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



6.058 191

### 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](http://www.hirschmannlab.com). Additional single calibration reports or DAkkS certificates (former DKD calibration reports) are available.

Volume	Grad.	Tolerance	Overall length	PK	Cat. No.
ml	ml	± ml	± 5 mm		
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 2
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).



9.272 353

### 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](http://www.hirschmannlab.com). Additional single calibration reports or DAkkS certificates (former DKD calibration reports) are available.

Volume	Grad.	Tolerance	Overall length	PK	Cat. No.
ml	ml	± ml	± 5 mm		
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 3
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

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

BLAUBRAND®, DIN EN ISO 835, DE-M marking. Type 2 (nominal volume at top), 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.

BRAND

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 1
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



9.272 023

Graduated pipettes, Class AS, USP, AR-glass®, blue graduation, type 2

BLAUBRAND®, class AS, nominal volume at the top, DE-M marking, Soda-lime glass, DIN EN ISO 835. Type 2, total delivery. Calibrated to deliver (TD, EX). Waiting time 5 seconds. Ring mark and inscriptions in highly contrasting blue enamel. Incl. USP batch certificate. On request also available with USP individual certificate. The batch certificate or individual certificate is also available to download from the manufacturer's website.

BRAND

Volume ml	Grad. ml	Tolerance ± ml	Overall length ± 10 mm	PK	Cat. No.
1*	0.01	0.007	360	1	9.272 090
2	0.02	0.01	360	1	9.272 091
5	0.05	0.02	360	1	9.272 092
10	0.1	0.03	360	1	9.272 093 2

\* Error limit USP ±0.01ml

2



9.272 093

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

AR-glas®. DE-M marking. DIN EN ISO 835. Type 1 (Zero at top). Calibrated to deliver (TD, EX). Waiting time 5 seconds. Ring mark and 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 10 ml: 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.

BRAND

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 3
25**	0.1	0.100	450	1	9.272 131

\* in completion to ISO, not with conformity certificate

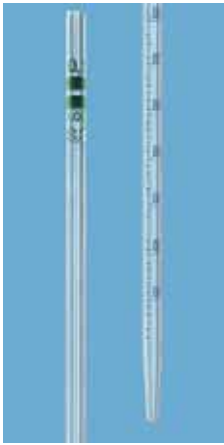
\*\*Cotton plugged

3



9.272 129

1



9.272 102

### Graduated pipettes, calibrated to contain, class A, conformity certified, blue graduations

BLAUBRAND®. AR-glas®. In addition to DIN 12689. DE-M marking. Length 360 mm. BRAND  
 Calibrated to contain (TC, IN). Graduations and inscriptions in high contrast blue enamel. An excellent combination of resistance and readability. All BLAUBRAND® bulb pipettes are supplied with batch number and one batch works certificate per pack unit. Individual works or DAkKS (former DKD) calibration certificates are available - details 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.
0.1	0.001	0.001	360	1	9.272 102 1
0.2	0.002	0.002	360	1	9.272 104

2



9.272 077

### 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.
0.5	0.01	0.006	360	1	9.272 069
1	0.01	0.010	360	1	9.272 070
1**	0.01	0.010	360	1	9.272 086
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
2**	0.02	0.015	360	1	9.272 089
2	0.1	0.015	360	1	9.272 074
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 2
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

3



9.272 373

### 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. Hirschmann  
 From 5 ml with cotton plug end as standard.

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 3
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.

## Graduated pipettes for tissue culture, clear glass, amber stain graduation

EX (TD) calibrated. Short form. Main point ring graduation. Specially for tissue culture and working on cleanroom benches. With durable amber stain graduation. Zero to the tip, cotton plugged (8mm outer diameter). With mouth piece for cotton plug.

Hirschmann

Volume ml	Grad. ml	Overall length ± 3 mm	PK	Cat. No.
1	0.1	230	1	6.080 498
2	0.1	230	1	6.090 340
5	0.1	230	1	6.080 523 <b>1</b>
10	0.1	230	1	6.510 172
25	0.2	230	1	6.510 335



6.080 523

## Graduated pipettes FORTUNA®, with suction piston, AR-Glass, according to class A, blue graduations

With permanent, amber, enamelled graduations. Tolerances similar to class A. Graduated pipettes with blue enamelled graduations are also available on request.

Poulsen & Graf

Capacity ml	Grad. ml	PK	Cat. No.
1	0.01	1	9.273 301
2	0.02	1	9.273 302
5	0.05	1	9.273 305
10	0.1	1	9.273 310 <b>2</b>
20	0.1	1	9.273 320
25	0.1	1	9.273 325



9.273 310

## 3 Graduated pipettes, PP, blue graduations

Highly transparent. Streak resistant. With blue graduations and markings. Particularly suitable for education and for applications where glass pipettes should not be used. Calibrated for delivery (EX).

BRAND

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.

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	330	1	9.272 513







### 1 LLG-Pasteur pipettes, Soda-lime glass

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

Length mm	PK	Cat. No.
150	1000	9.411 015
230	1000	9.411 020

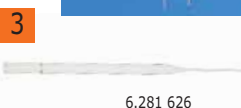


### 2 Pasteur pipettes, Soda-lime-glass

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

BRAND

Capacity ml	Length mm	PK	Cat. No.
2.0	145	250	7.020 294
2.0	225	250	7.020 295



### Pasteur pipettes, Soda-lime-glass

**NEW**

Kimble

6.281 626

Length mm	Suitable for cotton plugs	Sterile	PK	Cat. No.
150	without	yes	250	6.259 119
230	without	no	250	6.281 626 <b>3</b>
230	with	no	250	6.281 627



### 4 LLG-Pasteur Pipettes, PE

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

Type	Capacity ml	Length mm	PK	Cat. No.
non-sterile	1.0	150	500	9.401 081
non-sterile	3.0	150	500	9.401 080
sterile, single wrapped	1.0	150	1000	9.401 085
sterile, single wrapped	3.0	150	1000	9.401 084

### 5 6 Pipettes, Pasteur, PE

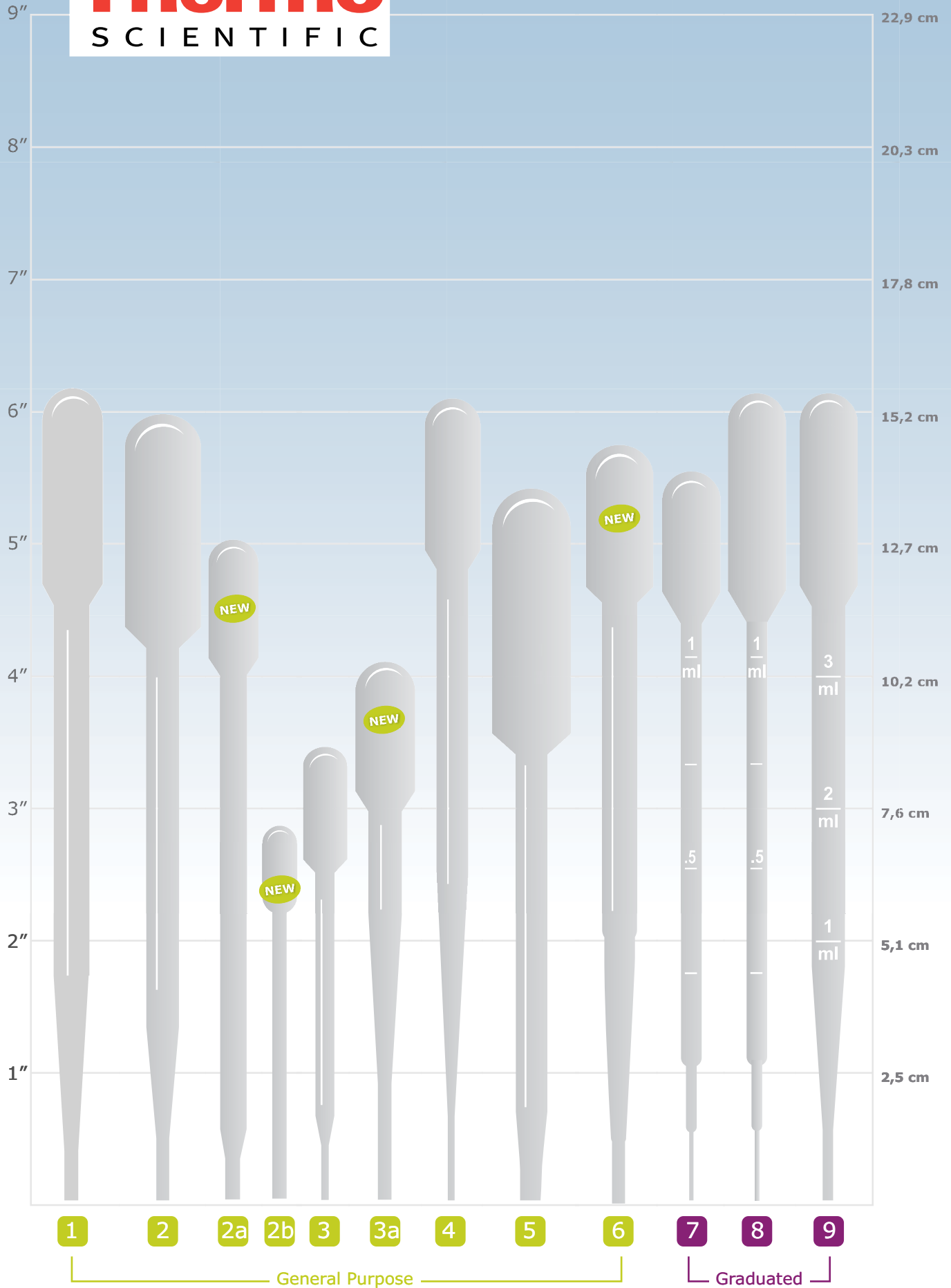
For transfer of liquids.

Resistant against almost all acids. Soft and elastic bulb.

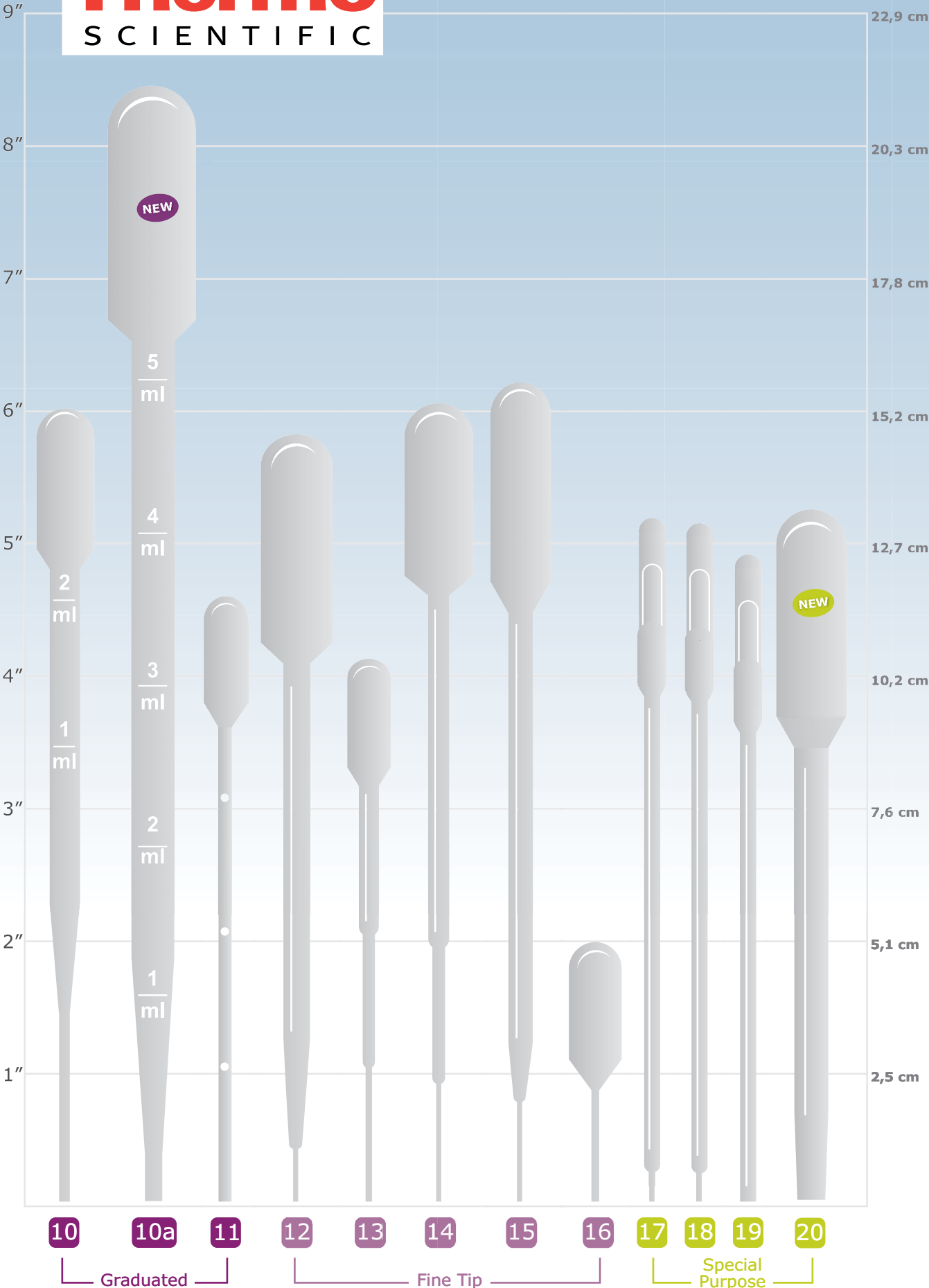
Type	Capacity ml	Length mm	PK	Cat. No.
Ultra Pastette® non-graduated, non-sterile	1.0	63	500	9.271 986
Mini Pastette® non-graduated, non-sterile	1.0	104	400	9.271 985
Capillary, grad., sterile, single wrapped*	1.0	144	500	9.411 039
Standard, without grad., sterile, single wrapped*	1.0	150	500	9.411 038
Standard, grad., non-sterile	1.0	155	500	9.411 031
Pasteur-Plast-Pipette, non sterile	1.5	230	400	7.200 111
Pasteur-Plast-Pipette, non sterile	2.0	155	500	7.631 961
Micro, without grad., non-sterile*	3.0	150	500	9.411 032
Macro, grad., sterile, single wrapped	3.0	150	500	9.411 035
Macro, grad., non-sterile	3.0	155	500	9.411 030
Jumbo Pastette® non-graduated, non-sterile	7.3	300	100	9.271 980
Standard, with ring mark, non-sterile	10.0	170	200	9.411 033
Pasteur-Plast-Pipette	10.0	300	100	6.203 402

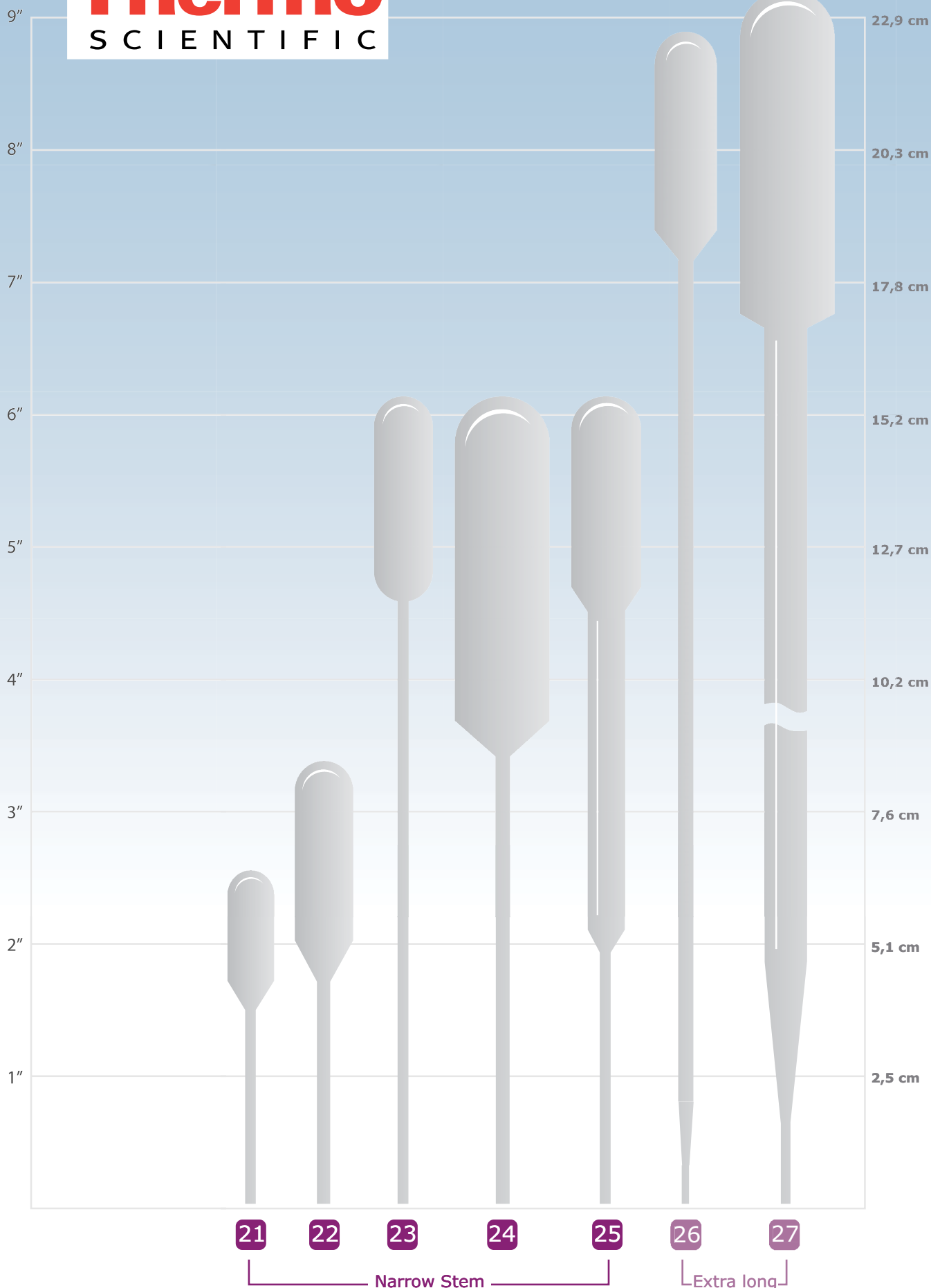
\* Total volume





# 8. Liquid Handling Pipettes/Pasteur pipettes







### General Purpose and Thermo Scientific™ B/B Pet™ Pipettes

Key	Product Description	Length (cm)	Stem Diameter (mm)	Overall Capacity (ml)	Bulb Draw (ml)	Drops per ml	PK	Cat.No.
1	General Purpose Standard	15.6	7.9	7.7	3.0	21	500	4.653 952
2	General Purpose Large Bulb	15.1	6.1	8.6	4.7	21	400	4.653 958
2a	General Purpose, Small Bulb	12.7	2.5	13.7	7.4	24	500	4.654 070
2b	General Extra Small Bulb	7.2	3.3	0.6	0.3	X	500	4.654 058
3	General Purpose 3"	8.7	4.8	1.8	0.9	26	500	4.654 047
3a	General Purpose, 4" B/B Pet (Blood Bank)	10.3	2.5	3.1	2.2	22	400	4.654 071
4	6" B/B Pet (Blood Bank)	15.4	6.6	4.9	1.8	24	500	4.654 076
5	62 µL Large Aperture Pipette	13.7	6.1	9.5	6.2	20	250	4.654 083
6	General Purpose, Beral	14.5	2.8	5.5	2.4	22	500	4.654 107

### Graduated Pipettes

Key	Product Description	Length (cm)	Stem Diameter (mm)	Overall Capacity (ml)	Bulb Draw (ml)	Drops per ml	PK	Cat.No.
7	Graduated 1 mL Small Bulb	14.0	4.7	3.9	2.1	25	500	4.653 964
8	Graduated 1 mL Large Bulb	15.5	4.6	5.8	3.5	25	500	4.653 969
9	Graduated 3 mL Large Bulb	15.5	7.9	7.7	3.2	21	500	4.653 977
10	Graduated 2 mL (Blood Bank)	15.2	7.1	4.6	1.8	25	500	4.654 052
10a	Graduated 5mL Large Bulb	21.7	3.0	13.7	7.4	19	250	4.654 093
11	Graduated 0.3 mL (Pediatric)	11.6	3.0	1.5	0.8	22	500	4.654 059

### Fine Tip Pipettes

Key	Product Description	Length (cm)	Stem Diameter (mm)	Overall Capacity (ml)	Bulb Draw (ml)	Drops per ml	PK	Cat.No.
12	Fine Tip Large Bulb	14.7	6.1	8.9	4.8	45	400	4.654 002
13	Extended Fine Tip Small Bulb	10.4	3.0	1.7	1.0	21	400	4.653 983
14	Extended Fine Tip Large Bulb	15.3	3.0	5.4	3.1	50	250	4.653 996
15	Extended Fine Tip Standard	15.7	4.6	5.8	3.7	50	500	4.654 008
16	Fine Tip Small	5.1	1.2	1.6	1.0	34	500	4.654 022

### Special Purpose Thermo Scientific™ Padl-Pet™ Pipettes

Key	Product Description	Length (cm)	Stem Diameter (mm)	Overall Capacity (ml)	Bulb Draw (ml)	Drops per ml	PK	Cat.No.
17	Padl-Pet 25 µl Drop Size	13.1	3.8	1.0	0.2	—	500	4.654 065
18	Padl-Pet 30 µl Drop Size	13.0	3.8	1.0	0.2	—	500	4.654 067
19	Padl-Pet 50 µl Drop Size	12.4	3.6	0.8	0.2	—	500	4.654 069
20	Samco Slurry Transfer Pipette	13.2	5.1	7.5	3.3	13	450	4.658 701

### Narrow Stem Thermo Scientific™ SEDI-PET™ and Q-Pet™ Pipettes

Key	Product Description	Length (cm)	Stem Diameter (mm)	Overall Capacity (ml)	Bulb Draw (ml)	Drops per ml	PK	Cat.No.
21	SEDI-PET Short Stem	6.4	2.5	1.3	0.8	26	500	4.654 013
22	SEDI-PET Short Stem Large Bulb	8.5	2.5	4.3	3.1	24	500	4.654 016
23	SEDI-PET Standard	15.5	2.5	4.5	3.3	26	500	4.654 024
24	SEDI-PET Large Bulb	15.5	3.0	15.3	11.6	19	250	4.654 028
25	Q-Pet Transfer Pipette	15.5	8.0	6.9	3.2	31	500	4.654 089

### Extra Long Pipettes

Key	Product Description	Length (cm)	Stem Diameter (mm)	Overall Capacity (ml)	Bulb Draw (ml)	Drops per ml	PK	Cat.No.
26	Extra Long 9 "	22.5	5.0	5.6	2.3	25	400	4.654 033
27	Extra Long 12 "	30.0	8.6	24.1	10.7	20	100	4.654 041

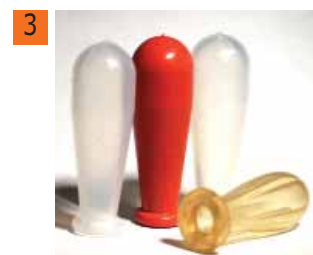
## Pipettes/Pipette controllers-Pipette balls



<b>1</b>	<b>Maxi pipette filler, 1 to 100ml</b>		
	Large capacity bulb which works perfectly with all pipette sizes from 1 ml up to 100 ml. 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
<b>Type</b>		<b>PK</b>	<b>Cat. No.</b>
Maxi pipette filler		1	6.238 525



<b>2</b>	<b>Pipette controllers macro 0.1 to 200 ml</b>		
	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.		BRAND
	<b>Supplied with:</b> pipette controller incl. 3 µm spare membrane filter.		
<b>Type</b>		<b>PK</b>	<b>Cat. No.</b>
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



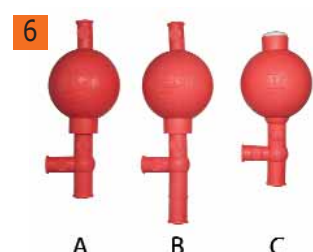
<b>3</b>	<b>Pipette teats</b>		
	Choice of materials as indicated. Natural rubber/Latex (NR) Silicone (VMQ) Styrene-butadiene-rubber (SBR)		Deutsch & Neumann
<b>Capacity ml</b>	<b>Colour</b>	<b>Material</b>	<b>PK</b> <b>Cat. No.</b>
1.8	transparent	NR	1 9.072 681
1.8	transparent	NR	10 6.265 727
2.0	transparent/white	VMQ	10 9.072 682
2.0	red	NR/SBR	1 9.072 683
5.0	transparent	NR	5 9.072 684
10.0	transparent	NR	3 9.072 685



<b>4</b>	<b>Pipette bulbs</b>		
	Rubber. For quick and easy pipetting. Colour coding to prevent confusion.		
<b>Colour</b>	<b>Capacity ml</b>		<b>PK</b> <b>Cat. No.</b>
Grey	2		1 9.115 502
Red	15		1 9.115 507



<b>5</b>	<b>Rubber blowballs</b>		
	Non-rigid PVC. Red-brown, smooth. With 6 mm i.d. outlet hole.		Deutsch & Neumann
<b>Type</b>	<b>Capacity ml</b>	<b>Diam. mm</b>	<b>PK</b> <b>Cat. No.</b>
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



<b>6</b>	<b>LLG-Safety pipette bulb, rubber, red</b>		
	Chemically resistant rubber. With valves for suction, emptying and air release, controlled by thumb and finger pressure.		<b>NEW</b>
<b>Type</b>	<b>Figure</b>	<b>PK</b>	<b>Cat. No.</b>
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

### 1 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



### 2 Pipette stand, horizontal, PP

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

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



### 3 Pipette stand, vertical, PP

Pipette stand, vertical is made from moulded polypropylene. *ISOLAB*  
 This stand can hold up to 94 pipettes and rotates on a central vertical axis for easy selection of any particular pipette. The base plate has a raised edge which catches dripping liquids.

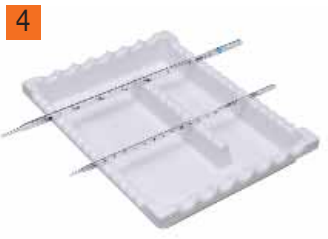
Type	PK	Cat. No.
Pipette stand, vertical	1	9.273 895



### 4 Pipette stand, PS NEW

Manufactured from polystyrene for easy organisation of all kinds of pipettes. *ISOLAB*  
 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.

Width mm	Length mm	Height mm	PK	Cat. No.
215	280	40	1	6.286 606



### 5 Pipette tray, PVC

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

Width mm	Length mm	Height mm	PK	Cat. No.
220	280	39	1	9.200 392



### 6 Pipette tray, PVC

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

Width mm	Length mm	Height mm	PK	Cat. No.
300	420	30	1	9.200 394



### 7 Pipette storage container

With lid. Base dia. x height: 130 x 430 mm, int. dia.: 83 mm. Suitable for dust-proof storage of pipettes up to 400 mm long. *Kartell*

Type	Bottom diam. mm	Height mm	PK	Cat. No.
With lid (PP container, HDPE lid)	83	430	1	9.273 900



**1**


### 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.

- 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 (100-240 V, 50/60 Hz), Li-Ion battery, 5 coloured nose pieces, 3 membrane filters, adapter for 1 ml pipettes, benchtop rack, magnetic wall mounting

**2**


#### Specifications

Membrane filters:	PTFE/Ø 25 mm /0.45 µm
Capacity:	1 to 100 µl, 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**


### 3 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

*Hirschmann*

from 0.1 ml to 200 µl. Without reloading it can be operated up to one week. The colour display shows the selected defaults (speed) and the current battery capacity

- 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 100-240V, 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*

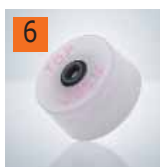
Type	PK	Cat. No.
Pipette holder, complete	1	9.283 970 <b>4</b>
Round filter set with one-sided connection	5	9.283 965 <b>5</b>
Spare silicone adapter	1	9.283 961
Spare safety valve	1	9.283 962 <b>6</b>
Charging set 230 V including inductive charging station, EU, UK, US plug	1	9.283 966
Mounting bracket	1	9.283 967
Retainer Ring, chrome	1	9.283 968 <b>7</b>
Pipette holder housing	1	9.283 969
Table Stand	1	9.287 859

**4**

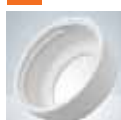

9.283 970

**5**


9.283 965

**6**


9.283 962

**7**


9.283 968



## 1 Pipette controller accu-jet® pro

BRAND

- Exceptionally sensitive meniscus control, even with low-volume pipettes
- Light weight (190g) and smoothly rounded grip ensure comfort and minimize fatigue
- Securely holds all pipettes from 0.1ml to 200 ml
- Active vapour exhaust, check valve and filter help protect instrument from liquids and vapours
- Additional battery compartment cover (included) allows instrument to be inverted on the bench to avoid contamination of the pipette adapter.
- 8 hours of continuous pipetting (with a 10ml pipette) on each charge; LED low-battery signal; instrument operates during recharge.

Items supplied: accu-jet® pro, incl. wall support, 2 membrane filters 0.2 µm sterile, NiMH battery pack, 2 battery compartment covers, instruction manual and 100-240 V 50/60 Hz power supply unit for continental Europe.



Description	PK	Cat. No.
accu-jet® pro, dark blue	1	9.281 090
accu-jet® pro, magenta	1	9.281 086
accu-jet® pro, green	1	9.281 087
accu-jet® pro, royal blue	1	9.281 088

## 2 Accessories for accu-jet® controller

BRAND

Description	PK	Cat. No.
NiMh-Akku battery charger 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
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

\* Sterilized with ethylene oxide (ETO), SAL of 10<sup>-6</sup>, with red colour code



## 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".

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



## 4 Pipette fillers Pi-pump

**NEW**

Glasfirn Gießen

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.

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



## Pipettes/Pipette controllers-Pipette balls



### 1 Maxi pipette filler, 1 to 100ml

Large capacity bulb which works perfectly with all pipette sizes from 1 ml up to 100 ml. 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



### 2 Pipette controllers macro 0.1 to 200 ml

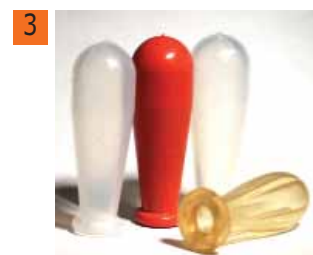
One single macro pipette controller covers the entire range of bulb and graduated pipettes from 0.1 to 200 ml.

BRAND

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



### 3 Pipette teats

Choice of materials as indicated.

Deutsch &amp; Neumann

Natural rubber/Latex (NR)

Silicone (VMQ)

Styrene-butadiene-rubber (SBR)

Capacity ml	Colour	Material	PK	Cat. No.
1.8	transparent	NR	1	9.072 681
1.8	transparent	NR	10	6.265 727
2.0	transparent/white	VMQ	10	9.072 682
2.0	red	NR/SBR	1	9.072 683
5.0	transparent	NR	5	9.072 684
10.0	transparent	NR	3	9.072 685



### 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
Red	15	1	9.115 507

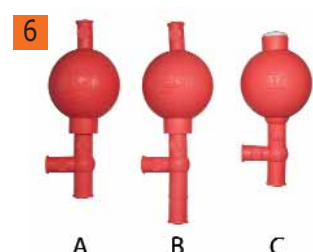


### 5 Rubber blowballs

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

Deutsch &amp; 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



### 6 LLG-Safety pipette bulb, rubber, red

**NEW**

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

### 1 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



### 2 Pipette stand, horizontal, PP

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

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



### 3 Pipette stand, vertical, PP

Pipette stand, vertical is made from moulded polypropylene. *ISOLAB*  
 This stand can hold up to 94 pipettes and rotates on a central vertical axis for easy selection of any particular pipette. The base plate has a raised edge which catches dripping liquids.

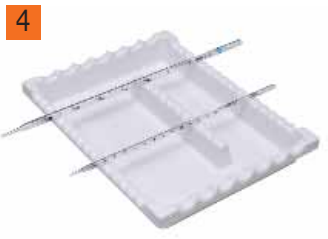
Type	PK	Cat. No.
Pipette stand, vertical	1	9.273 895



### 4 Pipette stand, PS NEW

Manufactured from polystyrene for easy organisation of all kinds of pipettes. *ISOLAB*  
 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.

Width mm	Length mm	Height mm	PK	Cat. No.
215	280	40	1	6.286 606



### 5 Pipette tray, PVC

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

Width mm	Length mm	Height mm	PK	Cat. No.
220	280	39	1	9.200 392



### 6 Pipette tray, PVC

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

Width mm	Length mm	Height mm	PK	Cat. No.
300	420	30	1	9.200 394



### 7 Pipette storage container

With lid. Base dia. x height: 130 x 430 mm, int. dia.: 83 mm. Suitable for dust-proof storage of pipettes up to 400 mm long. *Kartell*

Type	Bottom diam. mm	Height mm	PK	Cat. No.
With lid (PP container, HDPE lid)	83	430	1	9.273 900



**NEW**

Kartell

### Pipette rinser system

For easy and gentle cleaning of pipettes according to the suction lifter principle. 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	500*	1	9.273 980
Pipette baskets	145	280	650*	1	9.273 985 <b>3</b>
Pipette baskets	145	280	870*	1	9.273 990
Pipette soaking jar	125	-	250	1	9.273 928
Pipette soaking jar	162	-	500	1	9.273 920 <b>2</b>
Pipette soaking jar	162	-	650	1	9.273 925
Pipette rinser	170	-	740	1	9.409 238 <b>1</b>
Pipette rinser	170	-	1000	1	9.409 239

\*with handle



9.409 238

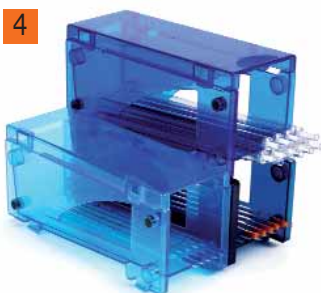


9.273 920



9.273 985

➔ Further pipette cleaning devices please see chapter 11



### 4 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 0.1 ml to 50 ml 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): 301 mm x 100 mm x 127.5 mm 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. Silicone rubber pad - please order separately.

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



## 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.
65	450	442	1	9.010 793
80	380	372	1	9.010 794
80	500	492	1	9.010 795



## 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



## 4 Pipette Box, 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 480 mm 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	150-200	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

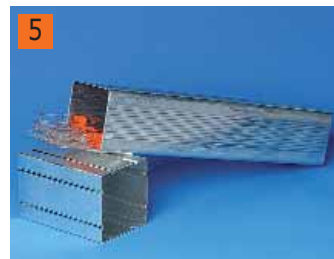


## 5 Pipette box, aluminium

Pipette box of aluminium, inner silicone coating. For storage and sterilization of pipettes with different length.

BRAND

Type	Length mm	PK	Cat. No.
Pipette box aluminium	150-200	1	6.280 988
Pipette box aluminium	235-305	1	6.280 987
Pipette box aluminium	315-385	1	6.280 986
Pipette box aluminium	315-485	1	6.280 985



## 1 2 3 4 5 6 LLG-Digital 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-Digital 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
100	2.5	0.6	yellow	1	9.277 520
200	2.5	0.6	blue	1	9.277 521
250	2.9	0.6	blue	1	9.277 522
500	2.9	0.6	blue	1	9.277 523
1000	2.4	0.6	violet	1	9.277 524
2000	2.4	0.6	violet	1	9.277 525
2500	2.4	0.6	violet	1	9.277 526
5000	2.4	0.6	turquoise	1	9.277 527
10000*	3.0	0.6	turquoise	1	9.277 528

\* 10000µl pipette does not have a tip ejector

## LLG-Digital 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	1.5	0.8	grey	1	9.280 000
0.5 - 10	0.1	1.0	0.5	grey	1	9.280 001
2 - 20	0.5	4.5	1.0	grey	1	9.280 002
10 - 100*	1.0	2.8	0.8	yellow	1	9.280 003
20 - 200	1.0	2.5	0.6	yellow	1	9.280 004
100 - 1000*	5.0	2.9	0.6	blue	1	9.280 005
500 - 5000*	50.0	2.4	0.6	purple	1	9.280 006
1000 - 10000**	100.0	3.0	0.6	turquoise	1	9.280 007

\*Filters for pipettes available on request.

\*\* 10000µl pipette does not have a tip ejector

### 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 10 µl
  - LLG-microlitre pipette 10 to 100 µl
  - LLG-microlitre pipette 100 to 1000 µl

b) for each pipette one bag of tips

- crystal (0.1 to 10 µl) 1000 tips
- yellow (10 to 100 µl), 1000 tips
- blue (100 to 1000 µl), 1000 tips

**Package 2 Macro contains:**

- a) 3 Microliter pipettes with the volumes
  - LLG-microlitre pipette 100 to 1000 µl
  - LLG-microlitre pipette 500 to 5000 µl
  - LLG-microlitre pipette 1000 to 10000 µl

b) for each pipette one bag of tips

- blue (100 to 1000 µl), 1000 tips
- clear (100 to 5000 µl), 250 tips
- clear (1000 to 10000 µl), 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

### 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.

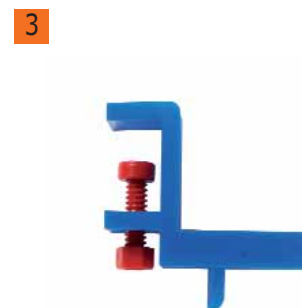
Description	PK	Cat. No.
for 4 pipettes	1	9.280 014
for 6 pipettes	1	9.280 011

### 3 Pipette clamp for single and multi-channel microliter pipettes Clamp-Ette®, PP

Chemical-resistant PP. Autoclavable.

Heathrow Scientific

Type	Dimensions mm	PK	Cat. No.
Pipette clamp, plastic	110 x 45 x 105	1	9.280 012



## 1 | 2 | 3 Single channel microliter pipettes LLG-proMLP NEW

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

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



### Filters 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

## 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 6 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 332 mm (bench top style); 193 x 187 mm (under shelf style)

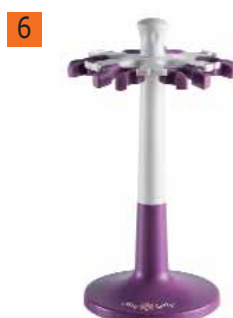
Colour	PK	Cat. No.
Blue	1	9.194 002 <span style="border: 1px solid black; padding: 0 2px;">4</span>
Lime	1	9.194 003 <span style="border: 1px solid black; padding: 0 2px;">5</span>
Magenta	1	9.194 004 <span style="border: 1px solid black; padding: 0 2px;">6</span>



9.194 002



9.194 003



9.194 004







### 1 Single channel microliter pipettes, Transferpette® S, variable BRAND

The Transferpette® S models are the perfect manual pipettors for the most demanding applications in the laboratory. They include all of the features requested by Life Science users: rugged construction, one-hand volume adjustment, complete autoclavability, highest precision, and Easy Calibration™ technology for convenient, long-term reliability.

- Familiar, centrally placed pipetting key and separate tip ejector
- Ergonomic finger rest that adapts to your hand for a relaxed grip
- Easy, one-handed volume setting for right-or left-handed users
- Easy-to-read 4-digit volume display for highest precision
- Entirely autoclavable at 121 °C (2 bar), DIN EN 285
- Colour indicates volume range
- Corrosion-resistant piston and ejector for durability
- Easy Calibration technology on the Transferpette® S digital models, providing calibration adjustments without tools, and a clear indication when the pipettes have been adjusted from factory settings
- Volume range from 0.1 µl to 10 ml!
- CE
- UV-resistant
- Also available as pipette with fixed volume

**Items supplied:** Transferpette® S, DE-M marking, with quality certificate, shelf mount and silicone oil/grease.

Capacity	Increments	Tip	Accuracy max. vol.	Precision max. vol.	PK	Cat. No.
µl	µl	µl	(≤ ± R%)	(≤ CV%)		
0.1 - 1	0.001	0.1 - 20, 0.1 - 1*	2.0	1.2	1	9.280 050
0.1 - 2.5	0.002	0.1 - 20, 0.5 - 20, 1 - 50, 0.5 - 10*, 1 - 20*	1.4	0.7	1	6.255 420
0.5 - 10	0.01	0.1 - 20, 0.5 - 20, 1 - 50, 0.1 - 1*, 0.5 - 10*, 1 - 20*	1.0	0.5	1	9.280 051
2 - 20	0.02	2 - 200, 5 - 300, 2 - 20*, 5 - 100*	0.8	0.4	1	9.280 052
5 - 50	0.05	2 - 200, 5 - 300, 5 - 100*	0.8	0.3	1	6.280 817
10 - 100	0.1	2 - 200, 5 - 300, 2 - 20*, 5 - 100*	0.6	0.2	1	9.280 053
20 - 200	0.2	2 - 200, 5 - 300, 2 - 20*, 5 - 100*, 5 - 200*	0.6	0.2	1	9.280 054
100 - 1000	1	50 - 1000, 50 - 1000*	0.6	0.2	1	9.280 055
500 - 5000	5	0.5 - 5 ml	0.6	0.2	1	9.280 056
1000 - 10000	10	1 - 10 ml	0.6	0.2	1	9.280 057

\* Filter tips



### 2 Single channel pipettes Starter-Kits, variable, Transferpette® S BRAND

Cost-saving Starter-Kits containing three Transferpette® S pipettes of different volumes with corresponding racked pipette tips from BRAND and shelf-mounting, pipette holders.

**Items supplied:** 3 Transferpette® S, variable, 3 x Tip-Boxes (filled), 3 shelf mounts.

Type	Description	PK	Cat. No.
Starter-Kit Micro	0.1 to 1 µl, 0.5 to 10 µl, 10 to 100 µl	1	9.280 060
Starter-Kit Midi	2 to 20 µl, 20 to 200 µl, 100 to 1000 µl	1	9.280 061
Starter-Kit Macro	100 to 1000 µl, 500 to 5000 µl, 1000 to 10000 µl	1	9.280 062
Starter-Kit Standard	0,5 to 10 µl, 10 to 100 µl, 100 to 1000 µl	1	9.280 063



### 3 Pipette stands for Single and multichannel microliter pipettes Transferpette® S BRAND

Description	PK	Cat. No.
Bench stand for 1 multichannel pipette	1	7.510 391
Bench stand for 6 single and multichannel pipettes	1	9.280 065
Shelf hanger for 1 single or multichannel pipette	1	9.280 066

## 1 Single channel microliter pipettes, Transferpette® electronic, variable

The Transferpette® electronic design ensures significantly easier operation and is the first microlitre pipette worldwide to be awarded the "Ergonomics Approved" certificate from the TUV Rhineland.

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
- simple, in-lab maintenance
- completely autoclavable pipette shafts and multichannel manifolds
- NiMH rechargeable battery pack and battery regeneration-mode
- CE-marked

Every single-channel Transferpette® electronic is supplied with its own power supply unit. As an alternative the three-pipette accessory stand can charge up to three instruments at the same time. With the charging stand, individual chargers are not needed.

**Items supplied:** Transferpette® electronic, DE-M marking, with performance certificate, battery, 230V/50Hz power supply adapter (with continental European plug, alternative versions available on request), silicone grease.



Capacity	Increments	Tip	Accuracy max. vol.	Precision max. vol.	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	1	9.280 113
2 - 20	0.02	0.1 - 20, 0.5 - 20, 1 - 50, 0.5 - 10*, 1 - 20*	1.0	0.4	1	9.280 100
20 - 200	0.2	2 - 200, 5 - 300, 2 - 20*, 5 - 100*, 5 - 200*	0.8	0.2	1	9.280 101
100 - 1000	1.0	50 - 1000, 50 - 1000*	0.6	0.2	1	9.280 102
500 - 5000	5.0	500 - 5000	0.6	0.2	1	9.280 114
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	1	9.280 115
2 - 20**	0.02	0.1 - 20, 1 - 50, 0.5 - 20, 0.5 - 10*, 1 - 20*	1.0	0.4	1	9.280 103
20 - 200**	0.2	2 - 200, 5 - 300, 2 - 20*, 5 - 100*, 5 - 200*	0.8	0.2	1	9.280 104
100 - 1000**	1.0	50 - 1000, 50 - 1000*	0.6	0.2	1	9.280 105
500 - 5000**	5.0	500 - 5000	0.6	0.2	1	9.280 116

\* Filter tips

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

## Pipette stands for Single channel microliter pipettes Transferpette® electronic

BRAND

Type	PK	Cat. No.
3-pipettor charging stand up to 1000 µl with adapter (230 V 50 Hz, EU plug)	1	9.280 106
Single stand, for pipettors up to 1000 µl	1	9.280 129
Single stand, for 500 to 5000 µl pipettors	1	9.280 130 2



9.280 130

We can supply this  
manufacturer's  
whole  
product range !





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

The new Transferpette® S -8/-12 multichannel pipettes are the perfect manual pipettes for the most demanding applications in the lab. They provide all of the features required by users working in the life sciences field. A particular advantage of the new multichannel pipette is the easy operation, e.g. when performing serial pipetting of immunological assays, while serial dilutions or when filling the 96-well plates for cell cultures.

BRAND

The use of new innovative materials results in a pipette that is light, precise, rugged and reliable. Transferpette® S -8/-12 pipettes are available in 5 different models and cover the volume range from 0.5 µl to 300 µl.

#### Highlights at a glance:

- Central pipetting button and big separate tip ejector for reducing tip ejection forces.
- Short pipetting stroke; reduces the risk of RSI and enhances comfort for operators with smaller hands.
- Curved finger rest supports pipette for relaxed pipetting.
- Real one-handed operation; volume change and volume change protection.
- 4-digit volume display for precise volumes; always remains visible during pipetting.
- Completely autoclavable at 121 °C (2 bar) without disassembly, DIN EN 285.
- Corrosion-resistant piston.
- Easy Calibration Technique: calibration and adjustments are done within seconds; adjustment from factory settings is clearly visible from the outside.
- Replaceable nose cones and seals to simplify service for long instrument life.
- Compatible with most common tips.
- Color indicates volume range
- CE-marked
- UV-resistant

**Items supplied:** Transferpette® S -8/-12, DE-M marking, performance certificate, 2 x TipBox filled with BRAND® tips, 1 shelf/rack mount, 1 reagent-reservoir, 1 set of sealing rings made of FKM, 1 mounting tool and silicone oil/grease.

Type	Capacity	Increments	Tip	Accuracy max. vol.	Precision max. vol.	PK	Cat. No.
	µl	µl	µl	(≤ ± R%)	(≤ CV%)		
S-8	0.5 - 10	0.01	0.1 - 20, 0.5 - 20, 0.1 - 1*, 0.5 - 10*, 1 - 50, 1 - 20*	1.6	1.0	1	9.280 030
S-8	5 - 50	0.05	2 - 200, 5 - 300, 2 - 20*, 5 - 100*, 5 - 200*	0.8	0.4	1	9.280 031
S-8	10 - 100	0.1	2 - 200, 5 - 300, 2 - 20*, 5 - 100*, 5 - 200*	0.8	0.3	1	9.280 032
S-8	20 - 200	0.2	2 - 200, 5 - 300, 2 - 20*, 5 - 100*, 5 - 200*	0.8	0.3	1	9.280 033
S-8	30 - 300	0.5	2 - 200, 5 - 300, 5 - 100*, 5 - 200*	0.6	0.3	1	9.280 034
S-12	0.5 - 10	0.01	0.1 - 20, 0.5 - 20, 1 - 50, 0.1 - 1*, 0.5 - 10*, 1 - 20*	1.6	1.0	1	9.280 035
S-12	5 - 50	0.05	2 - 200, 5 - 300, 2 - 20*, 5 - 100*, 5 - 200*	0.8	0.4	1	9.280 036
S-12	10 - 100	0.1	2 - 200, 5 - 300, 2 - 20*, 5 - 100*, 5 - 200*	0.8	0.3	1	9.280 037
S-12	20 - 200	0.2	2 - 200, 5 - 300, 2 - 20*, 5 - 100*, 5 - 200*	0.8	0.3	1	9.280 038
S-12	30 - 300	0.5	2 - 200, 5 - 300, 5 - 100*, 5 - 200*	0.6	0.3	1	9.280 039

\* Filter tips



### 2 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
- CE certified
- Three-year warranty

### Single channel microliter pipettes Acura® manual 825/835, fix

Socorex

Type	Capacity	Increments	Accuracy max. vol.	Precision max. vol.	PK	Cat. No.
	µl	µl	(≤ ± R%)	(≤ CV%)		
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

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

Set with 3 pipettes. Nine different packs up to 10 ml, 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

## Accessories for single channel microliter pipettes Acura® manual 835

Socorex

Description	PK	Cat. No.
Protection filter for 10 ml model	100	9.411 484
Glass Pasteur pipette for 2 ml model	250	9.411 731
Nozzle filter for model 2 and 5 ml	250	6.205 906

## 2 Microliter pipettes TwiXS Pack Acura® manual XS 826, variable

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

Socorex

Ready-to-use set includes:

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

Type	Capacity µl	Tip µl	PK	Cat. No.
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





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

- Seven micropipettes: 0.2 to 1000 µl
- two macropipettes: 0.2 to 10 ml
- 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

Socorex

Type	Capacity µl	Increments µl	Tip µl	Accuracy max. vol. (≤ ± R%)	Precision max. vol. (≤ CV%)	PK	Cat. No.
822	2 - 20	0.1	200	1.0	0.5	1	9.411 476
822	10 - 100	0.5	200	0.8	0.2	1	9.411 477
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 Accessories for Single channel microliter pipettes Calibra® digital 832

Socorex

Description	PK	Cat. No.
Protection filter for 2 ml model	250	9.411 482
Glass Pasteur pipette for 2 ml model	250	9.411 731
Protection filter for 10 ml model	100	9.411 484
Autoclaving box for 24 x 10 ml tips	4	9.411 503



### 3 Dilution microliter pipette Acura® manual 810, fix

This air displacement micropipette allows subsequent pipetting of 1 and 0.1 mL of same liquid. The two pre-calibrated fixed volumes eliminate any setting. A universal metal nozzle accommodates straw tips (length 190 mm, 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.

Socorex

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



### 4 Straw tips, PP, for Dilution pipette Acura® manual 810

Colourless Polypropylene straw tips with a diameter of 4 mm are specially designed for easy reach deep into narrow vials and Stomacher® bags. Their large diameter allows pick up of particle containing liquids.

Qualitips® straw tips can be used directly in microbiological tests. They are supplied sterilized, in sealed bags.

Socorex

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

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

Socorex

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.

### 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 4.8 V battery, operating instructions and QC certificate, Qualitips® 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

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

Socorex

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, Qualitips® pipette tips samples. Thereafter, additional pipettes can be purchased alone and charged on existing stand.

Initial package supplied with:

electronic pipette with 4.8 V battery, additional battery pack, charging stand, power supply, operating instructions and QC certificate, Qualitips® 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
Acura® <i>electro</i> XS 926							
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

1



1

### Multichannel microlitre pipettes Acura® manual 855, variable

- 8- and 12-channel models up to 350 µl
- 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

Socorex

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

2



2

### 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 4.8 V battery, operating instructions and QC certificate, Qualitips® 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

## 1 Multichannel microliter pipettes Acura® *electro* 956, variable

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

Socorex



Capacity	Increments	Tip	Accuracy max. vol.	Precision max. vol.	Channels	PK	Cat. No.
$\mu\text{l}$	$\mu\text{l}$	$\mu\text{l}$	( $\leq \pm R\%$ )	( $\leq CV\%$ )			
0.5 - 10	0.05	Ultra 10	1.0	0.7	8	1	9.411 700
2.5 - 50	0.25	200	0.8	0.4	8	1	9.411 701
10 - 200	1.0	200	0.6	0.25	8	1	9.411 702
20 - 350	5.0	350	0.6	0.25	8	1	9.411 703
0.5 - 10	0.05	Ultra 10	1.0	0.7	12	1	9.411 704
2.5 - 50	0.25	200	0.8	0.4	12	1	9.411 705
10 - 200	1.0	200	0.6	0.25	12	1	9.411 706
20 - 350	5.0	350	0.6	0.25	12	1	9.411 707

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

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

Socorex



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

## 4 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

## 5 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



1



### 1 Microliter Pipette Tacta

Tacta is a premium mechanical pipette available in volume range from 0.1 to 10 000  $\mu\text{l}$  in single channel models, and from 0.5 to 300  $\mu\text{l}$  in multichannel models. *Sartorius Lab Instruments*

- 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
- Optijet 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  $\mu\text{l}$  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

2



### 2 Single channel pipette Tacta

**NEW**

*Sartorius Lab Instruments*

Capacity $\mu\text{l}$	Increments $\mu\text{l}$	Accuracy max. vol. ( $\leq \pm R\%$ )	Precision max. vol. ( $\leq CV\%$ )	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

3



### 3 Multichannel microliter pipette Tacta

**NEW**

*Sartorius Lab Instruments*

Channels	Capacity $\mu\text{l}$	Increments $\mu\text{l}$	Accuracy max. vol. ( $\leq \pm R\%$ )	Precision max. vol. ( $\leq CV\%$ )	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

4



### 4 Holder for Microliter pipette Tacta

**NEW**

Type	PK	Cat. No.
Holder for Microliter pipette Tacta	1	4.658 728

## 1 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 8. Liquid Handling tasks

Sartorius Lab Instruments

Capacity	Increments	Optifit Tips	Accuracy max. vol.	Precision max. vol.	PK	Cat. No.
µl	µl	µl	(≤ ± R%)	(≤ CV%)		
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

1



## 2 Electronic Microliter pipettes Picus®/Picus® NxT

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.

Sartorius Lab Instruments

Fully electronic 8. 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



## 3 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



**1**

**1** Electronic multichannel microliter pipettes Picus®/Picus® NxT

**NEW**

Sartorius Lab Instruments

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

**2**

**3**

**2 3** 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 50 µl)
- 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
- Compliance: CE-marked
- Certifications: Manufactured according to ISO 9001, ISO 14001 and ISO 13485.

## 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	( $\leq \pm R\%$ )	( $\leq CV\%$ )				
1 - 10	0.02	2.5	2.0	pink	ClipTip™ 20	1	<b>6.284 607</b>
2 - 20	0.02	3.0	2.5	pink	ClipTip™ 20	1	<b>4.658 828</b>
5 - 50	0.1	3.0	2.5	violet	ClipTip™ 50	1	<b>4.658 829</b>
10 - 100	0.2	3.0	1.0	yellow	ClipTip™ 200	1	<b>4.658 830</b>
20 - 200	0.2	1.8	0.7	yellow	ClipTip™ 200	1	<b>4.658 831</b>
30 - 300	1.0	1.5	0.6	orange	ClipTip™ 300	1	<b>4.658 832</b>
100 - 1000	1.0	1.0	0.6	blue	ClipTip™ 1000	1	<b>4.658 833</b>

## Single channel microliter pipettes F1-ClipTip™, fix

Thermo Scientific

Capacity	Accuracy max. vol.	Precision max. vol.	Tip	PK	Cat. No.
µl	( $\leq \pm R\%$ )	( $\leq CV\%$ )			
10	0.9	0.8	ClipTip™ 20	1	<b>4.658 834</b>
20	0.7	0.5	ClipTip™ 20	1	<b>4.658 835</b>
25	0.6	0.5	ClipTip™ 50	1	<b>4.658 836</b>
50	0.6	0.4	ClipTip™ 50	1	<b>4.658 837</b>
100	0.4	0.3	ClipTip™ 200	1	<b>4.658 838</b>
200	0.4	0.3	ClipTip™ 200	1	<b>4.658 839</b>
250	0.4	0.3	ClipTip™ 300	1	<b>4.658 840</b>
500	0.3	0.3	ClipTip™ 1000	1	<b>4.658 841</b>
1000	0.3	0.3	ClipTip™ 1000	1	<b>4.658 842</b>

#### Multichannel microliter pipettes F1-ClipTip™, variable

Thermo Scientific

Capacity	Increments	Accuracy max. vol.	Precision max. vol.	Channels	Colour code	Tip	PK	Cat. No.
$\mu\text{l}$	$\mu\text{l}$	( $\leq \pm \text{R}\%$ )	( $\leq \text{CV}\%$ )					
1 - 10	0,02	12,0	8,0	8	pink	ClipTip™ 20	1	4.658 843
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™ 20	1	4.658 847
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

#### 1 Electronic single channel and multichannel microliter pipettes E1-ClipTip™

With enhanced versatility and customization, E1-ClipTip™ Electronic microliter pipettes automate e.g. daily 96- and 384-well microplate pipetting tasks.

##### Innovative ClipTip interlocking tip interface technology

- Tip is locked and sealed in place until ejected: No dropped tips that waste valuable samples
- Complete seal to secure the sample volume in each tip for enhanced accuracy and precision
- Tips are attached and ejected with a light touch: Eliminates the frustration of banging tips on the pipette

##### Unified operation for multiple users and environments

- Personalized user interface and password protection ensure consistent operation among multiple users.
- Designed for optimum comfort and ease of use, electronic tip ejection and index finger pipetting.
- My Pipette™ Creator application in the Thermo Fisher Cloud: Create and share programs, download pre-written protocols, and transfer programs to and from your pipette via a Bluetooth or USB connection.

**MyPipette™:** One click access for more efficient and unified pipetting: Customise your main menu view by organising icons in your preferred order or creating shortcuts for your favorite programs and pipetting functions. You can also protect important settings from unintentional editing with a password.

##### Store up to 20 programs

**A pipette for every application:** Choose from single channels, 8- and 16-channel multichannels, or 6- and 12-channel adjustable tip spacing Equalizer multichannel pipettes within the volume range of 0.5-1250 $\mu\text{l}$ .

##### Track your pipette

**Liquid specific calibrations:** Higher quality results with liquid specific calibrations

**Li-Ion battery:** Long lasting performance and fast recharging.

**Flexible re-charging:** Use either charging stand or a plug, you decide

**2-year warranty:** With convenient web registration



#### Electronic single channel microliter pipettes E1-ClipTip™, variable

Thermo Scientific

Capacity	Increments	Accuracy max. vol.	Precision max. vol.	Colour code	Tip	PK	Cat. No.
$\mu\text{l}$	$\mu\text{l}$	( $\leq \pm \text{R}\%$ )	( $\leq \text{CV}\%$ )				
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.	Precision max. vol.	Channels	Colour code	Tip	PK	Cat. No.
$\mu\text{l}$	$\mu\text{l}$	( $\leq \pm \text{R}\%$ )	( $\leq \text{CV}\%$ )					
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 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. *Thermo Scientific*

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.

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

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	<b>9.282 709</b>
2 - 125	0.1	2.0 - 8.0	0.6 - 4.0	8	Yellow	ClipTip™ 200	9.0 - 14.2	1	<b>9.282 710</b>
10 - 300	0.1	2.0 - 5.0	0.6 - 2.0	8	Orange	ClipTip™ 300	9.0 - 14.2	1	<b>9.282 711</b>
50 - 1250	1	1.4 - 4.0	0.6 - 1.5	8	Turquoise	ClipTip™ 1250	9.0 - 14.2	1	<b>9.282 712</b>
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	<b>9.282 713</b>
1 - 30	0.01	2.0 - 10.0	0.9 - 7.0	8	Violet	ClipTip™ 384 30	4.5 - 14.2	1	<b>9.282 714</b>
2 - 125	0.1	2.0 - 8.0	0.6 - 4.0	8	Yellow	ClipTip™ 384 125	4.5 - 14.2	1	<b>9.282 715</b>
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	<b>9.282 716</b>
1 - 30	0.01	2.0 - 10.0	0.9 - 7.0	12	Violet	ClipTip™ 384 30	4.5 - 9.0	1	<b>9.282 717</b>
2 - 125	0.1	2.0 - 8.0	0.6 - 4.0	12	Yellow	ClipTip™ 384 125	4.5 - 9.0	1	<b>9.282 718</b>



### 2 Pipette stand for electronic single and multichannel microliter pipettes E1-ClipTip™

*Thermo Scientific*

Description	PK	Cat. No.
Pipette stand E1-ClipTip™ with power supply	1	<b>9.282 719</b>



### 3 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. The innovative three interlocking clip design ensures the tip is held securely on the F1-ClipTip™ pipette only until it is released.

- Tips are attached and ejected with a light touch: Eliminates the frustration of banging tips on the pipette
- Low retention: Special technology to enable maximum sample recovery
- Versatile Tip Range: Choose from five sizes: 20, 50, 200, 300 and 1000 µl
- 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 4.6 cm, volume range 1-20 µl, 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 µl	Package contents	PK	Cat. No.
non sterile	1 - 20	10 racks of 96	960	<b>9.282 661</b>
sterile	1 - 20	10 racks of 96	960	<b>9.282 662</b>
non sterile	1 - 20	10 refill packs of 96	960	<b>9.282 663</b>
sterile	1 - 20	10 refill packs of 96	960	<b>9.282 664</b>
Filter tips, sterile	1 - 20	10 racks of 96	960	<b>9.282 665</b>
Filter tips, sterile	1 - 20	10 refill packs of 96	960	<b>9.282 666</b>

#### Pipette Tips ClipTip™ 125 for 384

Thermo Scientific

Description	Capacity	Package contents	PK	Cat. No.
	µl			
non-sterile	1 - 125	10 racks of 384	3840	<b>9.282 726</b>
sterile	1 - 125	10 racks of 384	3840	<b>9.282 727</b>
Filter tips, sterile	1 - 125	10 racks of 384	3840	<b>9.282 728</b>

#### Pipette Tips ClipTip™ 200 for 96

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

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.

Thermo Scientific

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

#### Pipette Tips ClipTip™ 300 for 96

Length 6.3cm, volume range 30-300µl, colour code orange.

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

Thermo Scientific

Description	Capacity	Package contents	PK	Cat. No.
	µl			
non sterile	30 - 300	10 racks of 96	960	<b>9.282 679</b>
sterile	30 - 300	10 racks of 96	960	<b>9.282 680</b>
non sterile	30 - 300	10 inserts of 96	960	<b>9.282 681</b>
sterile	30 - 300	10 inserts of 96	960	<b>9.282 682</b>
Filter tips, sterile	30 - 300	10 racks of 96	960	<b>9.282 683</b>
Filter tips, sterile	30 - 300	10 inserts of 96	960	<b>9.282 684</b>

#### Pipette Tips ClipTip™ 1000 for 96

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

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

Thermo Scientific

Description	Capacity	Package contents	PK	Cat. No.
	µl			
non sterile	100 - 1000	10 racks of 96	768	<b>9.282 685</b>
sterile	100 - 1000	10 racks of 96	768	<b>9.282 686</b>
non sterile	100 - 1000	10 refill packs of 96	768	<b>9.282 687</b>
sterile	100 - 1000	10 refill packs of 96	768	<b>9.282 688</b>
Filter tips, sterile	100 - 1000	10 racks of 96	768	<b>9.282 689</b>
Filter tips, sterile	100 - 1000	10 refill packs of 96	768	<b>9.282 690</b>

#### Empty Racks for Pipette Tips F1-ClipTip™

Thermo Scientific

Type	For	PK	Cat. No.
ClipTip™ Rack small	ClipTip™ 20, ClipTip™ 50	10	<b>9.282 691</b>
ClipTip™ Rack medium	ClipTip™ 200, ClipTip™ 300	10	<b>9.282 692</b>
ClipTip™ Rack large	ClipTip™ 1000	8	<b>9.282 693</b>

➔ More pipette tips can be found in our webshop.

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



**Thermo**  
 SCIENTIFIC

**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	<b>4.658 801</b>
25	0.6	0.5	Finntip 250, Filter 10, Flex 200, Flex Filter 10, 200 Ext	1	<b>4.658 802</b>
50	0.6	0.4	Finntip 250, Filter 10, Flex 200, Flex Filter 10, 200 Ext	1	<b>4.658 803</b>
100	0.4	0.3	Finntip 250, Filter 10, Flex 200, Flex Filter 10, 200 Ext	1	<b>4.658 804</b>
250	0.4	0.3	Finntip 1000, Filter 1000, Flex 1000, Flex Filter 1000, 1000 Ext, Filter 1000 Ext	1	<b>4.658 805</b>
500	0.3	0.3	Finntip 1000, Filter 1000, Flex 1000, Flex Filter 1000, 1000 Ext, Filter 1000 Ext	1	<b>4.658 806</b>
1000	0.3	0.3	Finntip 5 ml, Filter 5 ml	1	<b>4.658 807</b>
2000	0.3	0.2	Finntip 5 ml, Filter 5 ml	1	<b>4.658 808</b>
3000	0.3	0.2	Finntip 5 ml, Filter 5 ml	1	<b>4.658 809</b>
5000	0.3	0.2	Finntip 5 ml, Filter 5 ml	1	<b>4.658 810</b>
10000	0.3	0.2	Finntip 10 ml, Filter 10 ml, Flex 10 ml Ext	1	<b>4.658 811</b>
20	0.7	0.5	Finntip 250, Filter 10, Flex 200, Flex Filter 10, 200 Ext	1	<b>4.658 812</b>
200	0.4	0.3	Finntip 250, Filter 10, Flex 200, Flex Filter 10, 200 Ext	1	<b>4.658 813</b>

### 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	<b>4.658 787</b>
0.5 - 5*	0.01	6.0	1.0	pink	Finntip 10, Filter 10, Flex 10, Flex Filter 10	1	<b>4.658 788</b>
1 - 10*	0.02	2.5	0.5	pink	Finntip 10, Filter 10, Flex 10, Flex Filter 10	1	<b>4.658 789</b>
1 - 10	0.02	3.5	0.8	yellow	Finntip 250, Filter 10, Flex 200, Flex Filter 10, 200 Ext	1	<b>4.658 790</b>
2 - 20*	0.02	3.0	0.4	turquoise	Finntip 50, Filter 50	1	<b>4.658 791</b>
2 - 20	0.02	3.0	0.4	yellow	Finntip 250, Filter 20, Flex 200, Flex Filter 30, 200 Ext	1	<b>4.658 792</b>
5 - 50*	0.2	3.0	3.0	turquoise	Finntip 50, Filter 50	1	<b>4.658 799</b>
5 - 50	0.2	3.0	3.0	yellow	Flex 200, 250 Univ., 300, 200 Ext	1	<b>4.658 800</b>
10 - 100	0.2	3.0	0.2	yellow	Finntip 250, Filter 100, Flex 200, Flex Filter 100, 200 Ext, Filter 100 Ext	1	<b>4.658 793</b>
20 - 200	0.2	1.8	0.2	yellow	Finntip 250, Filter 200, Flex 200, Flex Filter 200, 200 Ext, Filter 200 Ext	1	<b>4.658 794</b>
30 - 300	1.0	1.5	0.2	orange	Finntip 300, Filter 300, Flex 300, Flex Filter 300	1	<b>4.658 795</b>
100 - 1000	1.0	1.0	0.2	blue	Finntip 1000, Filter 1000, Flex 1000, Flex Filter 1000, 1000 Ext, Filter 1000 Ext	1	<b>4.658 796</b>
500 - 5000	10.0	2.0	0.2	green	Finntip 5 ml, Filter 5 ml	1	<b>4.658 797</b>
1000 - 10000	20.0	2.0	0.2	red	Finntip 10 ml, Filter 10 ml, Flex 10 ml Ext	1	<b>4.658 798</b>

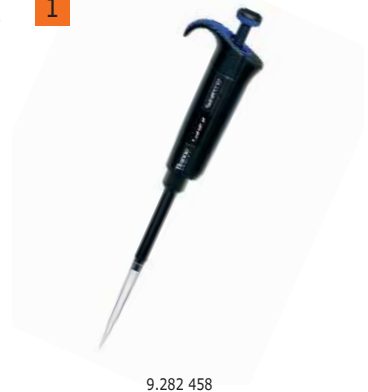
\*Microtip

## 1 Single channel microliter pipettes Finnpi<sup>®</sup> F2

Introducing the new Thermo Scientific Finnpi<sup>®</sup> 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 Finnpi<sup>®</sup> F2 offers outstanding reliability, which we guarantee with a 5 year warranty. Add to this great accuracy and precision, and you know the Finnpi<sup>®</sup> 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

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9.282 458

### Single channel microliter pipettes Finnpi<sup>®</sup> 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 Finnpi<sup>®</sup> 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

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

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

Thermo Scientific

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



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### Electronic single channel microliter pipettes FinnpiPETTE™ Novus, variable

Thermo Scientific FinnpiPETTE™ Novus Single Channel Electronic Pipettes offer performance with simple operation and reduced stress for comfortable, productive pipetting.

*Thermo Scientific*

- 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.
- 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 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.
- FinnpiPETTE™ 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	<b>6.228 698</b>
1 - 10	0.01	7.0	6.0	yellow	Finntip 250, Filter 10, Flex 200, Flex Filter 10, 200 Ext	1	<b>9.282 480</b>
5 - 50*	0.1	3.0	2.5	turquoise	Finntip 50, Filter 50	1	<b>6.228 699</b>
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	<b>6.228 700</b>
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	<b>6.228 701</b>
30 - 300	1.0	3.0	0.7	orange	Finntip 300, Filter 300, Flex 300, Flex Filter 300	1	<b>6.228 702</b>
100 - 1000	1.0	3.0	0.6	blue	Finntip 1000, Filter 1000, Flex 1000, Flex Filter 1000, 1000 Ext, Filter 1000 Ext	1	<b>6.228 703</b>
500 - 5000	10.0	3.0	0.8	green	Finntip 5 ml, Filter 5 ml	1	<b>6.228 704</b>
1000 - 10000	10.0	3.0	0.8	red	Finntip 10 ml, Filter 10 ml, Flex 10 ml Ext	1	<b>6.228 705</b>

\*Microtip

**2**

**2**

### Multichannel microliter pipettes FinnpiPETTE™ F1, variable

*Thermo Scientific*

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.

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	<b>4.658 814</b>
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	<b>4.658 815</b>
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	<b>4.658 816</b>
30 - 300	1.0	5.0	2,0	8	orange	Finntip 300, Filter 300, Flex 300, Flex Filter 300	1	<b>4.658 817</b>
1 - 10	0.02	12.0	8,0	12	pink	Finntip 10, Filter 10, Flex 10, Flex Filter 10	1	<b>4.658 818</b>
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	<b>4.658 819</b>
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	<b>4.658 820</b>
30 - 300	1.0	5.0	2,0	12	orange	Finntip 300, Filter 300, Flex 300, Flex Filter 300	1	<b>4.658 821</b>
1 - 10	0.02	12.0	8,0	16	violet	Finntip 20, Filter 20	1	<b>4.658 822</b>
5 - 50	0.1	5.0	2,0	16	turquoise	Finntip 50, Filter 50	1	<b>4.658 823</b>

## 1 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

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Capacity	Increments	Accuracy max. vol.	Precision max. vol.	Channels	Colour code	Suitable FinnTip Tips	PK	Cat. No.
$\mu\text{l}$	$\mu\text{l}$	( $\pm$ R%)	( $\leq$ CV%)					
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

## 2 Electronic multichannel microliter pipettes FinnpiPETTE™ Novus, variable

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

Thermo Scientific

2



- 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.

Capacity	Increments	Accuracy max. vol.	Precision max. vol.	Channels	Colour code	Suitable FinnTip Tips	PK	Cat. No.
$\mu\text{l}$	$\mu\text{l}$	( $\pm$ R%)	( $\leq$ CV%)					
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

### Single channel microliter pipettes Eppendorf Research® plus

Available with fixed or adjustable volume.

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.

Ergonomics:

- ultra light
- pipetting forces greatly reduced
- the spring-loaded tip cone

Flexibility:

- calibrate your Research plus to your needs,
- autoclave the entire pipettor, or only the lower housing
- choose among single channel, multichannel and fixed volume pipettors in different sizes.

Robustness:

- durability has been tested thoroughly and meets the highest quality requirements
- resistance to chemical, thermal and mechanical stress is now unchallenged
- 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.

1



### 1 Single channel microliter pipettes Eppendorf Research® plus, fix

- Eppendorf PerfectPiston™: ultra-light piston made of Fortron® (except 2.5 µl, 10 µl, 5 ml and 10 ml pipettors)
- quick connection clip: remove lower housing easily (except 5ml and 10ml pipettors)

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	9.283 210
10	-	1.2	0.3	yellow	1	9.283 211
20	-	0.8	0.6	light grey	1	9.283 212
20	-	1.0	0.3	yellow	1	9.283 213
25	-	1.0	0.3	yellow	1	9.283 214
50	-	0.7	0.3	yellow	1	9.283 215
100	-	0.6	0.2	yellow	1	9.283 216
200	-	0.6	0.2	yellow	1	9.283 217
200	-	0.6	0.2	blue	1	9.283 218
250	-	0.6	0.2	blue	1	9.283 219
500	-	0.6	0.2	blue	1	9.283 220
1000	-	0.6	0.2	blue	1	9.283 221

2



### 2 Single channel microliter pipettes Eppendorf Research® plus, variable

- Eppendorf PerfectPiston™: Ultra light piston made of Fortron® (except 2.5 µl, 10 µl, 5 ml and 10 ml pipettors)
- quick connection clip: easily removable lower part (not in 5 ml and 10 ml pipettes)
- spring loaded tip cone: Improved ergonomics, tight fit to the tip (except 5 ml and 10 ml pipettors)

Eppendorf AG

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	9.283 200
0,5 - 10	0.01	1.0	0.4	mid grey	1	9.283 201
2 - 20	0.02	1.0	0.3	yellow	1	9.283 202
2 - 20	0.02	1.0	0.3	light grey	1	9.283 208
10 - 100	0.01	0.8	0.2	yellow	1	9.283 203
20 - 200	0.02	0.6	0.2	yellow	1	9.283 204
30 - 300	0.02	0.6	0.2	orange	1	9.283 209
100 - 1000	1.0	0.6	0.2	blue	1	9.283 205
500 - 5000	2.0	0.6	0.15	purple	1	9.283 206
1000 - 10000	10.0	0.6	0.15	turquoise	1	9.283 207

## 1 Single channel microliter pipettes Eppendorf Research plus 3-Packs, 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:** 0.5-10 µl, 10-100 µl, 100-1.000 µl + 3 reusable ep.T.I.P.S.® boxes with 96 pipette tips each.
- Option 2:** 2-20 µl, 20-200 µl, 100-1.000 µl + 3 reusable ep.T.I.P.S.® boxes with 96 pipette tips each.
- Option 3:** 100-1.000 µl, 0.5-5 ml, 1-10 ml with samples of matching pipette tips.



Type	PK	Cat. No.
Research plus 3-Packs, Option 1	3	9.283 228
Research plus 3-Packs, Option 2	3	9.283 229
Research plus 3-Packs, Option 3	3	9.283 230

## Single channel microliter pipettes Eppendorf Reference® 2

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

## 2 Single channel microliter pipettes Reference® 2, 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	9.284 920
2	-	2.0	1.2	dark grey	1	9.284 921
5	-	1.5	0.8	mid grey	1	9.284 922
10	-	1.0	0.5	mid grey	1	9.284 923
10	-	1.0	0.5	yellow	1	9.284 924
20	-	0.8	0.3	light grey	1	9.284 925
20	-	0.8	0.3	yellow	1	9.284 926
25	-	0.8	0.3	yellow	1	9.284 927
50	-	0.7	0.3	yellow	1	9.284 928
100	-	0.6	0.2	yellow	1	9.284 929
200	-	0.6	0.2	yellow	1	9.284 930
200	-	0.6	0.2	blue	1	9.284 931
250	-	0.6	0.2	blue	1	9.284 932
500	-	0.6	0.2	blue	1	9.284 933
1000	-	0.6	0.2	blue	1	9.284 934
2000	-	0.6	0.2	red	1	9.284 935
2500	-	0.6	0.15	red	1	9.284 936



## 3 Single channel microliter pipettes Eppendorf Reference® 2, variable

Eppendorf AG

Capacity	Increments	Accuracy max. vol.	Precision max. vol.	Control button	PK	Cat. No.
µl	µl	(≤ ± R%)	(≤ CV%)	colour		
0.1 - 2.5	0.002	1.4	0.7	dark grey	1	9.284 900
0.5 - 10	0.01	1.0	0.4	mid grey	1	9.284 901
2 - 20	0.02	1.0	0.3	light grey	1	9.284 902
2 - 20	0.02	1.0	0.3	yellow	1	9.284 903
10 - 100	0.1	0.8	0.2	yellow	1	9.284 904
20 - 200	0.2	0.6	0.2	yellow	1	9.284 905
30 - 300	0.2	0.6	0.2	orange	1	9.284 906
100 - 1000	1.0	0.6	0.2	blue	1	9.284 907
250 - 2500	2.0	0.6	0.2	red	1	9.284 908
500 - 5000	5.0	0.6	0.15	purple	1	9.284 909
1000 - 10000	10.0	0.6	0.15	turquoise	1	9.284 910



1



### 1 Single channel microliter pipettes epReference® 2, 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, 0.5-5 ml, 1-10 ml with musters of the fitting pipette tips.

Type	PK	Cat. No.
Option 1: 0.5-10 µl, 10-100 µl, 100-1000 µl	3	9.284 897
Option 2: 2-20 µl, 20-200 µl, 100-1000 µl	3	9.284 898
Option 3: 100-1000 µl, 0.5-5 ml, 1-10 ml	3	9.284 899

2



### 2 3 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.

3



Capacity	Increments	Accuracy max. vol.	Precision max. vol.	Control button	PK	Cat. No.
µl	µl	(≤ ± R%)	(≤ 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

4



### 4 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

Capacity	Increments	Accuracy max. vol.	Precision max. vol.	Control button	PK	Cat. No.
µl	µl	(≤ ± R%)	(≤ 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

## 1 Charging stand for Single and multichannel microliter pipettes Eppendorf Xplorer®

Charging stand for holding one single channel or multichannel pipette Eppendorf Xplorer® using the charger adapter (230 V/50 Hz) which is supplied with each pipette.

Eppendorf AG



Type	PK	Cat. No.
Charging stand	1	9.283 254

## 2 Multichannel microliter pipettes Eppendorf Research® plus, variable

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.

Eppendorf AG

- 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 10µl pipettors)
- quick connection clip: Easily removable lower housing
- spring loaded tip cone: improved ergonomics, tight fit to the tip



Capacity	Increments	Accuracy max. vol.	Precision max. vol.	Channels	Control button	PK	Cat. No.
µl	µl	( $\leq \pm R\%$ )	( $\leq CV\%$ )		colour		
0.5 - 10	0.01	1.0	0.4	8	mid grey	1	9.283 222
10 - 100	0.1	0.8	0.2	8	yellow	1	9.283 224
30 - 300	0.2	0.6	0.2	8	orange	1	9.283 226
0.5 - 10	0.01	1.0	0.4	12	mid grey	1	9.283 223
10 - 100	0.1	0.8	0.2	12	yellow	1	9.283 225
30 - 300	0.2	0.6	0.2	12	orange	1	9.283 227

## 3 Pipette stands for single and multi-channel microliter pipettes

- Space saving pipettor rack to hold up to six pipettes
- Carousel pipette stand
- Can accommodate a wide range of pipettes using accessory pipette adapters

Eppendorf AG



Type	PK	Cat. No.
Carousel stand for 6 pipettors (except for Reference® 2)	1	9.283 581
Carousel stand for 6 pipettors (only for Reference® 2)	1	9.284 947
Pipette holder for attachment to the wall	1	9.283 580
Multipipette adapter for wall mounting	1	9.283 657
Multipipette adapter for the pipettor carousel	1	9.283 656

### 1 Multichannel microliter pipettes Eppendorf Reference® 2, variable

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 5000 µl and 10.000 µl.

Eppendorf AG

- 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

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	9.284 940
10 - 100	0.1	0.8	0.3	8	yellow	1	9.284 942
30 - 300	0.2	0.6	0.3	8	orange	1	9.284 944
0.5 - 10	0.01	2.0	1.0	12	medium grey	1	9.284 941
10 - 100	0.1	0.8	0.3	12	yellow	1	9.284 943
30 - 300	0.2	0.6	0.3	12	orange	1	9.284 945

### 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"<sup>TM</sup> 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



2



## 1 Electronic multichannel 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



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 Pipette Leak Testing Unit (PLT unit)

Improved process reliability with functional validation of air-displacement pipettes.

BRAND

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

## Accessories for Pipette Leak Testing Unit (PLT unit)

BRAND

Description	PK	Cat. No.
1-channel pipette adapter, for testing with tip, incl. 1 blind plug	1	9.280 575
1-channel pipette adapter, for testing without tip, incl. 1 blind plug	1	9.280 576
4-channel pipette adapter, for testing with and without tip, incl. 4 blind plugs	1	9.280 577
Filters, PE, for pipette adapter	10	9.280 578
Software PLT connect for PLT unit to simplify the documentation of leak tests performed	1	6.280 984
Universal AC adapter, Input: AC 100 V - 240 V, 50/60 Hz, Output: DC 6.5 V, 800 mA	1	9.280 579



## Pipettes/Positive displacement pipettes

1



### 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 140.000 mm<sup>2</sup>/sec. (dependent on instrument size)
- Media with high vapour pressure up to 500 mbar (Alcohols, ethers, hydrocarbons etc.)
- Media with a high density up to 13.6 g/cm<sup>3</sup> (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	Length Handle mm	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



### 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



### 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

### 1 Positive displacement micropipettes Acura® capillary 846

Socorex

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.

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

1



### 2 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

2



## 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.

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 paperback
- Rack footprint is compatible with automation and facilitates stacking, autoclavable

1



## 2 LLG-Pipette Tips *ULTRALOW*, Refill System

**NEW**

2



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

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

3

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



## LLG-Pipette Tips *ULTRALOW*, Rack

**NEW**

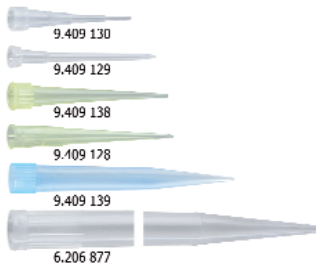
4

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



6.283 569

1



### 1 Pipette tips, non-sterile

Precise design and manufacture ensures highest quality tips.

Ratiolab

- 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

**Type A fits pipettes** ratiopetta®, Gilson® Pipetman® Neo, Eppendorf® Research® plus

**Type B fits pipettes** ratiopetta®, Gilson®, Eppendorf®, Thermo-Scientific FinnpiPETTE®, Brand®

**Type C fits pipettes** ratiopetta®, Gilson®

**Type D fits pipettes** ratiopetta®, Gilson®, Eppendorf®, Thermo-Scientific FinnpiPETTE®

**Type E fits pipettes** Thermo-Scientific FinnpiPETTE® F1 und F2, Dr. Lange Pipettes, Brand®

**Type F fits pipettes** ratiopetta®, Biohit® Proline/plus, Eppendorf® Research®, Eppendorf® Reference®, Socorex® Acura, Socorex® Calibra

2



9.409 140

Fits	Colour	Capacity µl	Package contents	PK	Cat. No.
Type A	Crystal	0,1 - 10	1 bag of 1000	1000	<b>9.409 130</b>
Type B	Crystal	0,5 - 20	1 bag of 1000	1000	<b>9.409 129</b>
Type B	Yellow	1 - 200	1 bag of 1000	1000	<b>9.409 138</b>
Type C	Yellow	1 - 250	1 bag of 1000	1000	<b>9.409 128</b>
Type D	Blue	100 - 1200	1 bag of 1000	1000	<b>9.409 139</b>
Type E	Transparent	1000 - 5000	1 folding box of 75	75	<b>9.409 140</b> 2
Type F	Transparent	1000 - 5000	1 bag of 300	300	<b>6.308 744</b>

3



6.262 867

### Filter tips, PE-HD

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
- certified RNase- and DNase-free
- pipette tips and aerosol filters made of ultra-hydrophobic PE-HD
- minimized retention due to special surface treatment
- perfect and close fit on all major pipettor brands
- aroject® 10 µl xl has extended length for operation with narrow vessels and reduced risk of cross-contamination
- packed in plastic racks with hinge lids
- 10 to 200 µl tips packed acc. to 8 x 12 micro test plate footprint
- 100 - 1000 µl in 6 x 10 format

Fits pipettors: ratiopetta®, Biohit® Proline, Biohit® m-Line, Brand® Transferpette®, CappAero, Eppendorf® Research®, Eppendorf® Reference®, FinnpiPETTE® Digital, FinnpiPETTE® 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	<b>6.262 343</b>
1 - 20	10 racks of 96	960	<b>6.262 867</b> 3
1 - 100	10 racks of 96	960	<b>6.262 868</b>
1 - 200	10 racks of 96	960	<b>6.262 869</b>
100 - 1000	10 racks of 60	600	<b>6.262 275</b>

## 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<sup>-6</sup> 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 Finnpiptette®, Eppendorf® and Biohit.

The 5 ml tip is exclusively tested for BRAND pipettes and Thermo Fisher Scientific Finnpiptette®.

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.

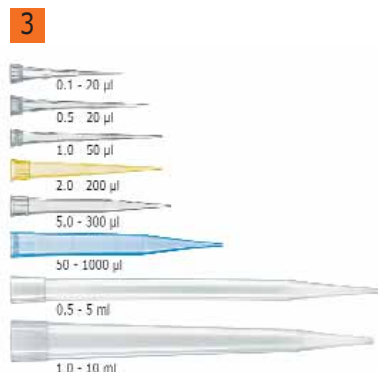


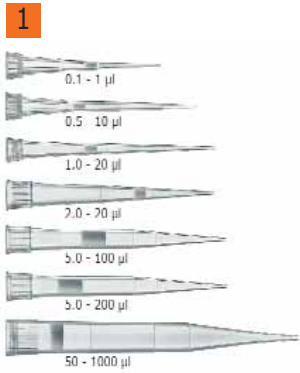
## 3 Pipette tips, bulk, in reclosable bags, non-sterile

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.
<b>µl</b>			
0.1 - 1	1 bag of 960	960	<b>9.409 681</b>
0.5 - 10	1 bag of 960	960	<b>9.409 682</b>
1.0 - 20	1 bag of 960	960	<b>9.409 683</b>
2 - 20	1 bag of 960	960	<b>9.409 684</b>
5 - 100	1 bag of 960	960	<b>9.409 685</b>
5 - 200	1 bag of 960	960	<b>9.409 686</b>
50 - 1000	1 bag of 960	960	<b>9.409 687</b>



### 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.
<b>µl</b>			
0.1 - 20	10 TipRacks of 96	960	<b>9.409 757</b>
0.5 - 20	10 TipRacks of 96	960	<b>9.409 758</b>
1 - 50	10 TipRacks of 96	960	<b>9.409 759</b>
2 - 200	10 TipRacks of 96	960	<b>9.409 760</b>
5 - 300	10 TipRacks of 96	960	<b>9.409 761</b>
50 - 1000	10 TipRacks of 96	960	<b>9.409 762</b>



### 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.
<b>µl</b>			
0.1 - 1	10 TipRacks of 96	960	<b>9.409 769</b>
0.5 - 10	10 TipRacks of 96	960	<b>9.409 770</b>
1.0 - 20	10 TipRacks of 96	960	<b>9.409 771</b>
2 - 20	10 TipRacks of 96	960	<b>9.409 772</b>
5 - 100	10 TipRacks of 96	960	<b>9.409 773</b>
5 - 200	10 TipRacks of 96	960	<b>9.409 774</b>
50 - 1000	10 TipRacks of 96	960	<b>9.409 775</b>



### 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.
<b>µl</b>			
0.1 - 20	10 TipRacks à 96	960	<b>9.409 763</b>
0.5 - 20	10 TipRacks à 96	960	<b>9.409 764</b>
1 - 50	10 TipRacks à 96	960	<b>9.409 765</b>
2 - 200	10 TipRacks à 96	960	<b>9.409 766</b>
5 - 300	10 TipRacks à 96	960	<b>9.409 767</b>
50 - 1000	10 TipRacks à 96	960	<b>9.409 768</b>



### 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.
<b>µl</b>			
0.1 - 1	10 TipRacks à 96	960	<b>9.409 776</b>
0.5 - 10	10 TipRacks à 96	960	<b>9.409 777</b>
1.0 - 20	10 TipRacks à 96	960	<b>9.409 778</b>
2 - 20	10 TipRacks à 96	960	<b>9.409 779</b>
5 - 100	10 TipRacks à 96	960	<b>9.409 780</b>
5 - 200	10 TipRacks à 96	960	<b>9.409 781</b>
50 - 1000	10 TipRacks à 96	960	<b>9.409 782</b>

### 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 µl	Package contents	PK	Cat. No.
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



### 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 µl	Package contents	PK	Cat. No.
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 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 µl	Package contents	PK	Cat. No.
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



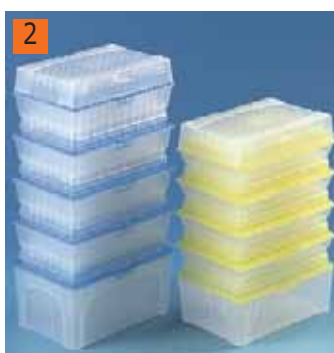


### 1 Filter tips, racked in TipBox, sterile, Bio-Cert®

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



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



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



### 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 ml	Package contents	PK	Cat. No.
Standard	0.5 - 5	1 TipBox of 28	28	<b>9.408 905</b>
Standard	1 - 10	1 TipBox of 18	18	<b>9.408 909</b>



### 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 µl	PK	Cat. No.
TipBox, empty	up to 50	1	<b>9.409 783</b>
TipBox, empty	up to 200	1	<b>9.409 784</b>
TipBox, empty	up to 300	1	<b>9.409 785</b>
TipBox, empty	up to 1000	1	<b>9.409 786</b>



## Pipette tips Qualitips®

The Socorex Qualitips® 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. Compatibility with various pipette brands.

Socorex

- High density filter prevents aerosol contamination
- DNase and RNase-free filter tips
- Pyrogen-free sterile filter tips

Colour	Capacity ml	Package contents	PK	Cat. No.
natural	2	2 bags of 250	500	<b>9.411 501</b> 3
natural	5	2 bags of 250	500	<b>9.411 449</b> 2
natural	5	2 racks of 50	100	<b>6.224 893</b>
natural	10	3 bags of 100	300	<b>9.411 502</b> 1



## 4 Pipette tips Optifit

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.

Sartorius Lab Instruments

Description	Capacity µl	Length mm	Package contents	PK	Cat. No.
non-sterile	100 - 5000	150,0	1 rack of 50	50	<b>6.206 247</b>
pre-sterilised	100 - 5000	150,0	1 rack of 50	50	<b>6.238 066</b>
non-sterile	100 - 5000	150,0	1 box of 100	100	<b>7.607 378</b>
non-sterile	100 - 5000	150,0	1 box of 1000	1000	<b>6.203 851</b>
non-sterile*	0,5 - 10	242,0	1 box of 100	100	<b>6.205 144</b>
non-sterile	0,5 - 200	51,0	10 racks of 96	960	<b>6.902 461</b>
non-sterile	50 - 1200	71,5	10 racks of 96	960	<b>6.204 651</b>
pre-sterilised	50 - 1200	71,5	10 racks of 96	960	<b>6.251 705</b>
non-sterile	50 - 1200	71,5	Refill Pack, 10 racks of 96	960	<b>6.224 347</b>
pre-sterilised	50 - 1200	71,5	Refill Pack, 10 racks of 96	960	<b>7.658 803</b>
non-sterile	50 - 1200	71,5	1 box of 1000	1000	<b>7.607 933</b>
non-sterile	10 - 1000	71,5	10 racks of 96	960	<b>6.226 809</b>
pre-sterilised	10 - 1000	71,5	10 racks of 96	960	<b>6.234 568</b>
non-sterile	10 - 1000	71,5	10 racks of 96	960	<b>6.226 833</b>
pre-sterilised	10 - 1000	71,5	Refill Pack, 10 racks of 96	960	<b>6.259 767</b>
non-sterile	10 - 1000	71,5	1 box of 480	480	<b>6.269 234</b>
non-sterile	10 - 1000	71,5	1 box of 400	400	<b>6.206 520</b>
pre-sterilised	10 - 1000	68,5	10 racks of 96	960	<b>6.233 869</b>
non-sterile	50 - 1200	90,0	10 racks of 96	960	<b>6.206 521</b>
non-sterile	5 - 350	54,0	10 racks of 96	960	<b>6.225 217</b>
pre-sterilised	5 - 350	54,0	10 racks of 96	960	<b>6.234 567</b>
non-sterile	5 - 350	54,0	Refill Tower, 10 racks of 96	960	<b>6.239 400</b>
non-sterile	0,1 - 10	31,5	10 racks of 96	960	<b>6.241 795</b>
pre-sterilised	0,1 - 10	31,5	10 racks of 96	960	<b>6.238 320</b>
non-sterile	0,1 - 10	31,5	Refill Tower, 10 racks of 96	960	<b>7.970 516</b>
pre-sterilised	0,1 - 10	31,5	Refill Pack, 20 racks of 96	1920	<b>7.970 541</b>
non-sterile	0,1 - 10	31,5	1 box of 1000	1000	<b>6.225 481</b>
pre-sterilised	0,5 - 200	51,0	10 racks of 96	960	<b>6.238 319</b>
non-sterile	0,5 - 200	51,0	Refill Tower, 10 racks of 96	960	<b>6.235 565</b>

\* Extra long Tip for MidiPlus



## 5 Pipette tips Finntip 10

This tip is specially designed for pipetting micro-sized drops. It is ideal for use with micro volume Finnpipettes.

Thermo Scientific

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



**1**


### 1 Pipette tips Finntip 20

The Finntip 20 is suitable for applications requiring high precision and volumes of 0.2-20 µl. The tips are provided in convenient racks of 384 tips.

*Thermo Scientific*

Description	Capacity µl	Package contents	PK	Cat. No.
non sterile	0.2 - 20	1 bag of 1000	1000	<b>6.224 412</b>
non sterile	0.2 - 20	10 racks of 384	3840	<b>6.228 720</b>
sterile	0.2 - 20	10 racks of 384	3840	<b>9.282 500</b>

**2**


### 2 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 µl	Package contents	PK	Cat. No.
non sterile	0.5 - 50	1 bag of 1000	1000	<b>6.301 604</b>
non sterile	0.5 - 50	10 racks of 384	3840	<b>6.301 538</b>
sterile	0.5 - 50	10 racks of 384	3840	<b>9.282 501</b>

**3**


### 3 Pipette tips Finntip 200 Extended

The Finntip 200 extended is an extra-long, tapered tip. It is designed to fit in extremely narrow vessels.

*Thermo Scientific*

Description	Capacity µl	Package contents	PK	Cat. No.
non sterile	5 - 200	1 box of 400	400	<b>6.222 480</b>
non sterile	5 - 200	10 racks of 96	960	<b>6.227 486</b>
sterile	5 - 200	10 racks of 96	960	<b>6.224 233</b>

**4**


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

**5**


### 5 Pipette tips Finntip 300

These tips were specially designed for the Finnpiette multichannels (reverse pipetting is possible with the 300 µl). The Finntip 300 µl is also suitable for single channel pipettes in the 5-200 µl range. The packaging options include refill packs.

*Thermo Scientific*

Description	Capacity µl	Package contents	PK	Cat. No.
non sterile	5 - 300	1000/Bag	1000	<b>6.057 011</b>
non sterile	5 - 300	20,000/Bulk	20000	<b>6.224 235</b>
non sterile	5 - 300	10 x 96/Rack	960	<b>6.056 947</b>
sterile	5 - 300	10 x 96/Rack	960	<b>6.084 976</b>
non sterile	5 - 300	10 x 192/Refill	1920	<b>6.204 184</b>

## 1 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

1



## 2 Pipette tips Finntip Flex 10

Thermo Scientific

Description	Capacity	Package contents	PK	Cat. No.
	$\mu$ l			
non sterile	0.2 - 10	1 bag of 1000	1000	<b>9.282 510</b>
non sterile	0.2 - 10	10 racks of 96	960	<b>9.282 511</b>
sterile	0.2 - 10	10 racks of 96	960	<b>9.282 512</b>
non sterile	0.2 - 10	1 rack of 96 + 20 refill packs of 96	2016	<b>9.282 513</b>
non sterile	0.2 - 10	20 refill packs of 96	1920	<b>9.282 514</b>

2



## Pipette tips Finntip Flex 200

Thermo Scientific

Description	Capacity	Package contents	PK	Cat. No.
	$\mu$ l			
non sterile	1 - 200	1 bag of 1000	1000	<b>9.282 515</b>
non sterile	1 - 200	10 racks of 96	960	<b>9.282 516 3</b>
sterile	1 - 200	10 racks of 96	960	<b>9.282 517</b>
non sterile	1 - 200	1 rack of 96 + 20 refill packs of 96	2016	<b>9.282 518</b>
non sterile	1 - 200	20 refill packs of 96	1920	<b>9.282 519</b>

3



9.282 516

## Pipette tips Finntip Flex 300

Thermo Scientific

Description	Capacity	Package contents	PK	Cat. No.
	$\mu$ l			
non sterile	5 - 300	1 bag of 1000	1000	<b>6.228 755</b>
non sterile	5 - 300	10 racks of 96	960	<b>6.224 234 4</b>
sterile	5 - 300	10 racks of 96	960	<b>6.228 752</b>
non sterile	5 - 300	1 rack of 96 + 20 refill packs of 96	2016	<b>6.228 753</b>
non sterile	5 - 300	20 refill packs of 96	1920	<b>6.228 754</b>

4



6.224 234

## Pipette tips Finntip Flex 1000

Thermo Scientific

Description	Capacity	Package contents	PK	Cat. No.
	$\mu$ l			
non sterile	100 - 1000	1 bag of 1000	1000	<b>6.235 571</b>
non sterile	100 - 1000	10 racks of 96	960	<b>6.230 775 5</b>
sterile	100 - 1000	10 racks of 96	960	<b>9.282 520</b>
non sterile	100 - 1000	1 rack of 96 + 16 refill packs of 96	1632	<b>9.282 521</b>
non sterile	100 - 1000	16 refill packs of 96	1536	<b>9.282 522</b>

5



6.230 775

**1**


6.22 8756

### Pipette tips Finntip Flex 1200

*Thermo Scientific*

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

**2**


### Pipette tips Finntip Flex Extended

*Thermo Scientific*

Description	Capacity	Package contents	PK	Cat. No.
non sterile	1000 - 10000	1 bag of 100	100	<b>7.651 616</b>
sterile	1000 - 10000	1 bag of 50	50	<b>9.282 525</b>

**3**


### Pipette tips Finntip Flex Filter, sterile

*Thermo Scientific*

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

**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.
non sterile	100 - 1000	1 box of 200	200	<b>6.085 561</b>
non sterile	100 - 1000	1 bag of 1000	1000	<b>6.085 852</b>
non sterile	100 - 1000	1 bag of 10,000	10000	<b>6.076 481</b>
non sterile	100 - 1000	10 racks of 96	960	<b>6.802 498</b>
sterile	100 - 1000	10 racks of 96	960	<b>6.206 884</b>
non sterile	100 - 1000	5 refill packs of 192	960	<b>6.228 679</b>

**5**


### Pipette tips Finntip 1000 Extended

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

*Thermo Scientific*

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

**6**


### Pipette tips Finntip 5ml

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

*Thermo Scientific*

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

## 1 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	Package contents	PK	Cat. No.
	µl			
non sterile	2000 - 10000	1 box of 40	40	<b>6.051 993</b>
non sterile	2000 - 10000	1 bag of 100	100	<b>6.051 307</b>
non sterile	2000 - 10000	5 racks of 24	120	<b>6.051 881</b>
sterile	2000 - 10000	5 racks of 24	120	<b>6.228 721</b>



## 2 Pipette tips Finntip with Filter Tips

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



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



## 4 Pipette tips Finntip BioCon

- Certified free from endotoxin, DNA, DNase, RNase
- Supplied individually packed
- Ideal for PCR and other purity demanding applications

Thermo Scientific

Description	Capacity	Package contents	PK	Cat. No.
	µl			
sterile	0.2 - 10	1 box of 100	100	<b>6.224 232</b>
sterile	0.5 - 250	1 box of 100	100	<b>9.282 570</b>
sterile	10 - 1000	1 box of 50	50	<b>6.228 751</b>





### 1 epT.I.P.S. Set

Starter kit, 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.
anthracite	0.1 - 10	34	1 box with 5 trays of 96	480	<b>9.409 480</b>
grey	0.1 - 20	40	1 box with 5 trays of 96	480	<b>9.409 481</b>
light grey	0.5 - 20	46	1 box with 5 trays of 96	480	<b>9.409 482</b>
yellow	2 - 200	53	1 box with 5 trays of 96	480	<b>9.409 483</b>
orange	20 - 300	55	1 box with 5 trays of 96	480	<b>9.409 484</b>
blue	50 - 1000	71	1 box with 5 trays of 96	480	<b>9.409 485</b>
green	50 - 1250	76	1 box with 5 trays of 96	480	<b>9.409 486</b>
red	500 - 2500	115	1 box with 5 trays of 48	240	<b>9.409 487</b>



### 2 Pipette tips epT.I.P.S. Box

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

Eppendorf AG

Colour	Capacity µl	Length mm	Package contents	PK	Cat. No.
anthracite	0.1 - 10	34	1 box of 96	96	<b>9.409 470</b>
grey	0.1 - 20	40	1 box of 96	96	<b>9.409 471</b>
light grey	0.5 - 20	46	1 box of 96	96	<b>9.409 472</b>
yellow	2 - 200	53	1 box of 96	96	<b>9.409 473</b>
orange	20 - 300	55	1 box of 96	96	<b>9.409 474</b>
blue	50 - 1000	71	1 box of 96	96	<b>9.409 475</b>
green	50 - 1250	76	1 box of 96	96	<b>9.409 476</b>
dark green	50 - 1250	103	1 box of 96	96	<b>6.238 120</b>
red	500 - 2500	115	1 box of 48	48	<b>9.409 477</b>
purple	100 - 5000	120	1 box of 24	24	<b>9.409 478</b>



### 3 Pipette tips epT.I.P.S. Standard

Original Eppendorf, high quality, pipette tips at an attractive price.

Eppendorf AG

- 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	<b>9.409 410</b>
grey	0.1 - 20	40	2 bags of 500	1000	<b>9.409 411</b>
light grey	0.5 - 20	46	2 bags of 500	1000	<b>9.409 412</b>
yellow	2 - 200	53	2 bags of 500	1000	<b>9.409 413</b>
orange	20 - 300	55	2 bags of 500	1000	<b>9.409 414</b>
blue	50 - 1000	71	2 bags of 500	1000	<b>9.409 415</b>
green	50 - 1250	76	2 bags of 500	1000	<b>9.409 416</b>
dark green	50 - 1250	103	2 bags of 500	1000	<b>6.238 121</b>
red	250 - 2500	115	5 bags of 100	500	<b>9.409 417</b>
purple	100 - 5000	120	5 bags of 100	500	<b>9.409 418</b>
turquoise	1000 - 10000	165	2 bags of 100	200	<b>9.409 403</b>
turquoise	1000 - 10000	243	2 bags of 100	200	<b>9.409 404</b>



### 4 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	<b>9.409 407</b>
clear	20 - 300	55	1 pack of 1000	1000	<b>9.409 408</b>
clear	50 - 1000	71	1 pack of 1000	1000	<b>9.409 409</b>

## 1 epT.I.P.S. Reloads

- 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.

Eppendorf AG

Colour	Capacity	Length	Package contents	PK	Cat. No.
	µl	mm			
anthracite	0.1 - 10	34	10 trays of 96	960	<b>9.409 450</b>
grey	0.1 - 20	40	10 trays of 96	960	<b>9.409 451</b>
light grey	0.5 - 20	46	10 trays of 96	960	<b>9.409 452</b>
yellow	2 - 200	53	10 trays of 96	960	<b>9.409 453</b>
orange	20 - 300	55	10 trays of 96	960	<b>9.409 454</b>
blue	50 - 1000	71	10 trays of 96	960	<b>9.409 455</b>
green	50 - 1250	76	10 trays of 96	960	<b>9.409 456</b>
dark green	50 - 1250	103	10 trays of 96	960	<b>6.238 117</b>
red	500 - 2500	115	10 trays of 96	480	<b>9.409 457</b>



## 2 epT.I.P.S. Reloads

- 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

Eppendorf AG

Colour	Capacity	Length	Package contents	PK	Cat. No.
	µl	mm			
anthracite	0.1 - 10	34	10 trays of 96	960	<b>9.409 460</b>
grey	0.1 - 20	40	10 trays of 96	960	<b>9.409 461</b>
light grey	0.5 - 20	46	10 trays of 96	960	<b>9.409 462</b>
yellow	2 - 200	53	10 trays of 96	960	<b>9.409 463</b>
orange	20 - 300	55	10 trays of 96	960	<b>9.409 464</b>
blue	50 - 1000	71	10 trays of 96	960	<b>9.409 465</b>
green	50 - 1250	76	10 trays of 96	960	<b>9.409 466</b>
dark green	50 - 1250	103	10 trays of 96	960	<b>6.238 118</b>
red	500 - 2500	115	10 trays of 48	480	<b>9.409 467</b>



## 3 epT.I.P.S. Racks, Biopur®

- Highest biological purity Eppendorf Biopur pipette tips (sterile, pyrogen-, RNase-, DNA-, ATP-free)
- batch controlled
  - batch specific certificate available on request
  - individually boxed racks, 5 Boxes per pack

Eppendorf AG

Colour	Capacity	Length	Package contents	PK	Cat. No.
	µl	mm			
grey	0.1 - 20	40	5 racks of 96	480	<b>9.409 430</b>
yellow	2 - 200	53	5 racks of 96	480	<b>9.409 431</b>
orange	20 - 300	55	5 racks of 96	480	<b>9.409 432</b>
blue	50 - 1000	71	5 racks of 96	480	<b>9.409 433</b>
green	50 - 1250	76	5 racks of 96	480	<b>9.409 434</b>
dark green	50 - 1250	103	5 racks of 96	480	<b>6.238 119</b>
red	500 - 2500	115	5 racks of 48	240	<b>9.409 435</b>
turquoise	1000 - 10000	165	5 racks of 24	120	<b>9.409 405</b>



## 4 epT.I.P.S. Singles, Biopur®

- Eppendorf Biopur® Individually blister-packed tips
- Batch number and the date of expiry indicated on each blister pack
- Batch specific certificate on request
- Biopur quality: sterile, Pyrogen, RNase-, DNA and ATP free

Eppendorf AG

Colour	Capacity	Length	PK	Cat. No.
	µl	mm		
grey	0.1 to 20	40	100	<b>9.409 420</b>
yellow	2 to 200	53	100	<b>9.409 421</b>
blue	50 to 1000	71	100	<b>9.409 422</b>





### 1 2 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	<b>9.409 440</b>
anthracite	0.1 - 10	40	10 racks of 96	960	<b>9.409 441</b>
light grey	0.5 - 20	46	10 racks of 96	960	<b>9.409 442</b>
yellow	2 - 20	53	10 racks of 96	960	<b>9.409 443</b>
yellow	2 - 100	55	10 racks of 96	960	<b>9.409 444</b>
yellow	2 - 200	59	10 racks of 96	960	<b>9.409 448</b>
orange	20 - 300	55	10 racks of 96	960	<b>9.409 445</b>
blue	50 - 1000	76	10 racks of 96	960	<b>9.409 446</b>
dark green	50 - 1250	103	5 racks of 96	480	<b>6.237 379</b>
purple	100 - 5000	120	5 racks of 24	120	<b>9.409 447</b>
blue	1000 - 10000	243	100 tips, single packed	100	<b>9.409 406</b>

### 3 4 Pipette tips epT.I.P.S. LoRetention

- Ideally suited for all applications with samples that contain detergents: *Eppendorf AG*
- 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. 10 x 96 tips. *Eppendorf AG*

Capacity µl	Length mm	Package contents	PK	Cat. No.
0.1 - 10	34	10 racks of 96	960	<b>9.409 425</b>
0.5 - 20	46	10 racks of 96	960	<b>9.409 426</b>
2 - 100	55	10 racks of 96	960	<b>9.409 427</b>
20 - 300	55	10 racks of 96	960	<b>9.409 428</b>
50 - 1000	76	10 racks of 96	960	<b>9.409 429</b>

### 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	<b>9.409 495</b>
0.5 - 20	46	10 trays of 96	960	<b>9.409 496</b>
2 - 200	59	10 trays of 96	960	<b>9.409 497</b>
50 - 1000	76	10 trays of 96	960	<b>9.409 498</b>

### 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	<b>9.409 490</b>
0.5 - 20	46	10 trays of 96	960	<b>9.409 491</b>
2 - 200	59	10 trays of 96	960	<b>9.409 492</b>
50 - 1000	76	10 trays of 96	960	<b>9.409 493</b>



## 1 Syringe Terminations

### N, NR (Cemented Needle, Rheodyne)

Needles are cemented into the glass syringe barrel at a point corresponding to the zero graduation mark. NR stands for syringes with Rheodyne specified needles.

### LTN (Luer Tip Cemented Needle)

Needles are cemented into the conical glass luer tip of the barrel at a point corresponding to the zero graduation mark.

### SN (Special Needle)

Hamilton offers customized syringes with special needles. State the following details: needle length, gauge, point style, and whether electro-tapered. Example of a correct specification: 701 SN, 70 mm, gauge 25, point style 3, not electro-tapered. Without these details the corresponding standard syringe 701 N will be supplied.

### RN (Removable Needle)

Removable needles seat precisely to the zero graduation mark of the syringe. Allows the use of different specification needles on the same syringe barrel.

### KH (Knurled Hub)

Knurled hub is used on 7000 Series syringes. The attachment of a spacer enables repeatable depth injections.

### LT (Luer Tip)

Ground glass syringe barrel with a male luer taper accepts most hypodermic needles. Use Kel-F hub needles and connectors for a tight seal.

### TLL, TLLX (PTFE Luer-Lock)

Male luer taper with nickel-plated brass hub accepts, and locks in place, luer hub needles and connectors. The X-style plunger stop incorporates a 6-32 UNC female thread on the end of the stop to allow attachment to drive arm mechanisms, such as on the Microlab 500 Series diluters/dispensers.

### SL (SampleLock)

On/Off syringe valve with RN needle is cemented to a syringe barrel. Used for headspace, environmental sample collection and storage, pre-pressurization of gaseous samples for GC analysis, and sample spiking.

### FN (Fixed Needle)

Found on PALSystem C-Line and X-Type autosampler syringes.

### C (ChemSeal)

1/4"-28 UNF, male fitting. Used in low volume applications where system dead volumes need to be minimized.



## 2 Microlitre syringes, Needle Types

Point Style 2 (pst2): 12° bevelled non-coring needle point recommended for septum penetration. *Hamilton*  
Ideal for gas chromatographic applications.

Point Style 3 (pst3): Blunt needle point (90°) for use with HPLC injection valves. Also recommended for applications where exact dosing is required (e.g. thin layer chromatographs).

Point Style 4 (pst4): 10-12° bevelled needle point recommended for life science applications; sharp point for animal injection.

Point Style 5 (pst5): Conical needle with side port for penetration of septa, thin-gauged vinyls and plastics without coring; minimizes septum damage

Point Style AS (pstAS): Special conical style needle point (8° taper) designed to withstand the demands of multiple injections; exclusively used on GC autosampler syringes



## 3 Microlitre syringes, 700 series, with cemented needle (N)

With cemented needle (N, NR). NR stands for syringes with Rheodyne specified needles. *Hamilton*  
Plungers are individually fitted, therefore cannot be interchanged and are not available as replacement parts.

Needle length: 51mm

Type	Capacity µl	Gauge	Point style	PK	Cat. No.
75 N	5	26s	2 (GC)	1	9.221 001
701 N	10	26s	2 (GC)	1	9.221 002
701 N	10	26s	2 (GC)	6	9.221 010
702 N	25	22s	2 (GC)	1	9.221 003
705 N	50	22s	2 (GC)	1	9.221 004
710 N	100	22s	2 (GC)	1	9.221 005
725 N	250	22s	2 (GC)	1	9.221 006
750 N	500	22	2 (GC)	1	9.221 007
75 N	5	26s	3 (HPLC)	1	9.221 011
701 N	10	26s	3 (HPLC)	1	9.221 012
702 NR	25	22s	3 (HPLC)	1	9.221 013
705 NR	50	22s	3 (HPLC)	1	9.221 014
710 NR	100	22s	3 (HPLC)	1	9.221 015
725 NR	250	22s	3 (HPLC)	1	9.221 016
750 N	500	22	3 (HPLC)	1	6.055 335
701 N	10	26s	5	1	6.800 518
750 N	500	22	5	1	6.801 651





9.221 081



9.221 021

### 1 Microlitre syringes, 700 series, for removable needles (RN) or (LT)

With removable needles (RN), or luer tip (LT). Plungers are individually fitted, therefore cannot be interchanged and are not available as replacement parts.

Hamilton

Type	Capacity µl	Gauge	Point style	Needle length mm	PK	Cat. No.
75 RN	5	26s	2 (GC)	51	1	9.221 080
701 RN	10	26s	2 (GC)	51	1	9.221 081 <b>1</b>
701 RN	10	26s	2 (GC)	51	6	6.059 899
702 RN	25	22s	2 (GC)	51	1	9.221 082
705 RN	50	22s	2 (GC)	51	1	9.221 083
710 RN	100	22s	2 (GC)	51	1	9.221 084
725 RN	250	22s	2 (GC)	51	1	9.221 085
750 RN	500	22s	2 (GC)	51	1	9.221 086
701 LT*	10				1	9.221 021 <b>2</b>
702 LT*	25				1	9.221 022
705 LT*	50				1	9.221 023
710 LT*	100				1	9.221 024
725 LT*	250				1	9.221 025
750 LT*	500				1	9.221 026

\* Needle - please order separately.


**3**

### 3 Microlitre syringes, 800 series, with cemented (N) or removable needles (RN)

With metal handle. Plungers are individually fitted, therefore cannot be interchanged and are not available as replacement parts. Cemented needles (N) or removable needle (RN).

Hamilton

Type	Capacity µl	Gauge	Point style	Needle length mm	PK	Cat. No.
85 N	5	26s	2	51	1	9.221 105
801 N	10	26s	2	51	1	9.221 110
802 N	25	22s	2	51	1	9.221 111
805 N	50	22s	2	51	1	9.221 112
810 N	100	22s	2	51	1	9.221 113
85 RN	5	26s	2	51	1	9.221 115
801 RN	10	26s	2	51	1	9.221 116
802 RN	25	22s	2	51	1	9.221 117
805 RN	50	22s	2	51	1	9.221 118
810 RN	100	22s	2	51	1	9.221 119
825 RN	250	22s	2	51	1	9.221 120
85 RN*	5	26s			1	6.803 384
801 RN*	10	26s			1	6.222 013
810 RN*	100	22s			1	6.231 153
85 RN B/P	5				1	6.232 019
801 RN B/P	10				1	9.221 172

\* Needle - please order separately.



9.221 210



9.221 251

### 4 Microlitre syringes, 1700/1000 series, with LT and gas-tight

Glass barrel with PTFE-coated plunger, seal and with Luer Tip (LT). Gas-tight microlitre syringe without needle.

Hamilton

Type	Capacity µl	Grad. µl	PK	Cat. No.
1710 LT	100	1	1	9.221 210 <b>4</b>
1725 LT	250	2.5	1	9.221 225
1750 LT	500	5	1	9.221 250
1001 LT	1000	10	1	9.221 251 <b>5</b>
1002 LT	2500	25	1	9.221 252
1005 LT	5000	50	1	9.221 255

## Microlitre syringes, 1700/1000 series, with TLL/ TLLX and gas tight

Glass barrel with PTFE-coated plunger and seal, and Luer lock outlet (TLL). With UNC female thread. Allows attachment to drive arm mechanisms, e.g. Microlab 500 Series diluters/dispensers. Gas-tight microlitre syringe without needle. TLLX= Plunger stop fitted to prevent damage to the PTFE seal. Prevents the plunger tip from reaching the end of the syringe. Hamilton



9.221 300

Type	Capacity	Grad.	PK	Cat. No.
	µl	µl		
1702 TLLX	25	0.25	1	9.221 300 1
1705 TLLX	50	0.5	1	9.221 305
1710 TLLX	100	1	1	9.221 310
1725 TLLX	250	2.5	1	9.221 315
1750 TLLX	500	5	1	9.221 320
1001 TLL	1000	10	1	9.221 348 2
1001 TLLX	1000	10	1	9.221 328
1002 TLL	2500	25	1	9.221 330
1005 TLL	5000	50	1	9.221 335
1010 TLL	10000	100	1	9.221 340
1025 TLL	25000	250	1	9.221 345



9.221 348

## 3 Needles for LT/TLL/TLLX syringes

Removable. With Luer tip made of Kel-F. All hypodermic needles available according to specification in 10 mm to max. 1000 mm lengths. Further point styles and diameters available on request. Needle length: 51 mm Hamilton



Type	Ext. diam. mm	Int. diam. mm	Gauge	Point style	PK	Cat. No.
KF 726s pst2	0.47	0.13	26s	2 (GC)	6	9.221 609
KF 726 pst2	0.46	0.26	26	2 (GC)	6	9.221 626
KF 725 pst2	0.51	0.26	25s	2 (GC)	6	9.221 625
KF 724 pst2	0.57	0.31	24s	2 (GC)	6	9.221 624
KF 723 pst2	0.64	0.34	23s	2 (GC)	6	9.221 623
KF 722s pst2	0.72	0.15	22s	2 (GC)	6	9.221 607
KF 722 pst2	0.72	0.41	22	2 (GC)	6	9.221 622
KF 721 pst2	0.82	0.51	21	2 (GC)	6	9.221 621
KF 720 pst2	0.91	0.60	20	2 (GC)	6	9.221 620
KF 726s pst3	0.47	0.13	26s	3 (HPLC)	6	9.221 709
KF 726 pst3	0.46	0.26	26	3 (HPLC)	6	9.221 726
KF 725 pst3	0.51	0.26	25	3 (HPLC)	6	9.221 735
KF 724 pst3	0.57	0.31	24	3 (HPLC)	6	9.221 724
KF 723 pst3	0.64	0.34	23	3 (HPLC)	6	9.221 723
KF 722s pst3	0.72	0.15	22s	3 (HPLC)	6	9.221 707
KF 722 pst3	0.72	0.41	22	3 (HPLC)	6	9.221 722
KF 721 pst3	0.82	0.51	21	3 (HPLC)	6	9.221 721
KF 720 pst3	0.91	0.60	20	3 (HPLC)	6	9.221 720

## Microlitre syringes, 1700/1000 series, with removable needle (RN)

Glass barrel with PTFE-coated plunger. Gas-tight microlitre syringes with removable needle (RN). Needle length: 51 mm Hamilton



9.221 487

Type	Capacity µl	Gauge	Point style	PK	Cat. No.
1701 RN	10	26s	2 (GC)	1	9.221 487 4
1702 RN	25	22s	2 (GC)	1	9.221 488
1705 RN	50	22s	2 (GC)	1	9.221 489
1710 RN	100	22s	2 (GC)	1	9.221 490
1725 RN	250	22s	2 (GC)	1	9.221 491
1750 RN	500	22s	2 (GC)	1	9.221 492
1001 RN	1000	22s	2 (GC)	1	9.221 493 5
1002 RN	2500	22s	2 (GC)	1	9.221 494



9.221 493

## Microlitre syringes, 1700/1000 series, with cemented needle (N)

With PTFE plunger seal. Gastight microlitre syringes with cemented-in needles (N). Needle length: 51 mm Hamilton



9.221 448

Type	Capacity µl	Gauge	Point style	PK	Cat. No.
1701 N	10	26s	2 (GC)	1	9.221 448 6
1702 N	25	22s	2 (GC)	1	9.221 449
1705 N	50	22s	2 (GC)	1	9.221 450
1710 N	100	22s	2 (GC)	1	9.221 455
1725 N	250	22s	2 (GC)	1	9.221 460
1750 LTN	500	22s	2 (GC)	1	9.221 465
1001 LTN	1000	22	2 (GC)	1	9.221 470 7
1002 LTN	2500	22	2 (GC)	1	9.221 475
1005 LTN	5000	22	2 (GC)	1	9.221 480
1010 LTN	10000	22	2 (GC)	1	9.221 485



9.221 470

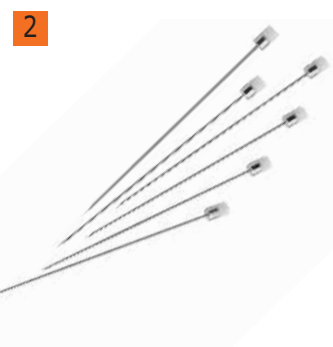

**1**

### 1 Microlitre syringes, 1800 series, with cemented (N) or removable needle (RN)

Hamilton

- 10 µl to 250 µl
- for use with gases and liquids
  - removable needles (RN) or cemented needles (N)
  - precision-machined PTFE-tipped plungers
  - reinforced plungers
  - plunger assemblies and glass barrels are replaceable

Type	Capacity µl	Gauge	Point style	PK	Cat. No.
1801 N	10	26s	2	1	<b>9.221 836</b>
1802 N	25	22s	2	1	<b>9.221 837</b>
1805 N	50	22s	2	1	<b>9.221 838</b>
1810 N	100	22s	2	1	<b>9.221 839</b>
1825 N	250	22s	2	1	<b>9.221 840</b>
1801 RN	10	26s	2	1	<b>9.221 831</b>
1802 RN	25	22s	2	1	<b>9.221 832</b>
1805 RN	50	22s	2	1	<b>9.221 833</b>
1810 RN	100	22s	2	1	<b>9.221 834</b>
1825 RN	250	22s	2	1	<b>9.221 835</b>


**2**

### 2 Needles for RN syringes

Removable. Not for use in HPLC applications.

Hamilton

Length 51 mm

Type	Volume	Ext. diam. mm	Int. diam. mm	Gauge	Point style	PK	Cat. No.
7758-02	2,5 µl - 100 µl	0.5	0.13	26s	2 (GC)	6	<b>9.221 692</b>
7758-03	2,5 µl - 100 µl	0.7	0.15	22s	2 (GC)	6	<b>9.221 693</b>
7779-01	250 µl - 10 ml	0.7	0.41	22	2 (GC)	6	<b>9.221 694</b>
7779-03	250 µl - 10 ml	0.7	0.15	22s	2 (GC)	6	<b>9.221 695</b>


**3**

### 3 Microlitre syringe needles for HPLC

Removable. For use with Rheodyne valves and Valco system VSF 2. Fit Hamilton syringes from 5 to 100 µl or 250 to 1000µl capacity.

Hamilton

Needle length: 51mm

Type	Volume	Gauge	Point style	PK	Cat. No.
7780-04	250 µl - 1000 µl	22s	3 (HPLC)	6	<b>6.203 934</b>
7770-01	2,5 µl - 100 µl	22s	3 (HPLC)	6	<b>9.221 603</b>


**4**

### 4 Microlitre syringes, 7000 series

The end of the plunger has a tungsten wire extension that fits the entire length of the needle all the way to the tip, resulting in a zero dead volume syringe.

Hamilton

Type	Capacity µl	Gauge	Point style	Needle length mm	PK	Cat. No.
7000.5 KH	0.5	25	2	70	1	<b>6.700 111</b>
7001 KH	1.0	25	2	70	1	<b>9.221 121</b>
7101 KH	1.0	22	2	70	1	<b>6.802 391</b>
7002 KH	2.0	25	2	70	1	<b>6.204 624</b>
7102 KH	2.0	23	2	70	1	<b>6.801 037</b>
7105 KH	5.0	24	2	70	1	<b>9.221 125</b>
7000.50C KH	0.5	32	3	100	1	<b>9.221 590</b>
7000.5 KH	0.5	25	3	70	1	<b>9.221 126</b>
7001 KH	1.0	25	3	70	1	<b>6.802 598</b>
7101 KH	1.0	22	3	70	1	<b>9.221 131</b>
7002 KH	2.0	25	3	70	1	<b>9.221 122</b>
7102 KH	2.0	23	3	70	1	<b>9.221 132</b>
7105 KH	5.0	24	3	70	1	<b>6.050 160</b>

## 1 Microlitre syringes Neuros™



Hamilton

Hamilton Neuros™ syringe technology provides unprecedented functionality for controlled injections e.g. of tissues and animals. An industry first, the Neuros™ accurately dispenses 50 nL to 100 µL of liquid through an ultrafine needle protected by a custom-designed sleeve. Developed specifically for the neurosciences, the Neuros minimizes injection site damage by increasing needle rigidity and delivering a microvolume of liquid to an exact location.

- Adjustable needle exposure of 0 to 20 mm
- Almost no dead volume
- Needle rigidity improves insertion path accuracy
- Minimal tissue damage reduces injection variability
- Reduced sample loss saves money and materials
- Fine gauge needle creates smaller injection sites
- Compatibility with most infusion pumps and stereotaxic holders means an easy integration into existing processes
- Also available as beveled 12° point (point style 4)

Needle length: 0 to 20 mm

Type	Capacity µl	Point style	Gauge	PK	Cat. No.
NRS7000.5 KH	0.5	3 (HPLC)	32	1	6.287 163
NRS7001 KH	1	3 (HPLC)	32	1	7.671 735
NRS7002 KH	2	3 (HPLC)	30	1	6.287 164
NRS75 RN	5	3 (HPLC)	33	1	7.642 505
NRS1701 RN*	10	3 (HPLC)	33	1	6.258 819
NRS1702 RN*	25	3 (HPLC)	33	1	6.287 165
NRS1705 RN*	50	3 (HPLC)	33	1	6.287 166
NRS1710 RN*	100	3 (HPLC)	33	1	6.287 167

\*gastight syringes



## Microlitre syringes for GC-autosamplers A

With cemented needle (N) for GC-autosamplers Agilent 7670 A, 7671 A, 7672 A.  
With fixed needle (FN) for CTC GC PAL system autosamplers.

Hamilton

Syringe types with Special needle (SN) available on request.

Needle length: 51 mm

Type	Capacity µl	Gauge	Point style	PK	Cat. No.
1701 N	10.0	26s	2 (GC)	1	9.221 448
701 N	10.0	26s	2 (GC)	1	9.221 002 2
75 FN CTC	5.0	26s	AS	1	6.304 828
701 FN CTC	10.0	26s	2 (GC)	1	6.301 578
701 FN CTC	10.0	26s	AS	1	6.303 229
7701.2 CTC	1.2	26s	AS	1	6.900 991
1702 FN CTC Slim Line*	25.0	26s	AS	1	9.221 040
1702 FN CTC	25.0	26s	AS	1	6.239 337
1710 FN CTC	100.0	26s	AS	1	6.206 124
1725 FN CTC	250.0	26s	AS	1	6.239 360 3
1750 FN CTC	500.0	26s	AS	1	9.221 041

\*Slim Line=Glass barrel outer diameter 6.6 mm



## Microlitre syringe for GC-Autosampler

With cemented-in needles (N) for autosamplers Agilent 7673 - 7683, 6850 ALS and with fixed needle (FN) for CTC GC PAL instruments.

Hamilton

Syringe types with Special needle (SN) available on request.

Type	Capacity µl	Needle length mm	Gauge	Point style	PK	Cat. No.
701 FN CTC	10	51	23s	2 (GC)	1	9.221 063
701 FN CTC	10	51	23s	AS	1	7.636 288 5
701 ASN	10	43	23s	AS	1	9.221 196 4



➔ Microlitre syringes for GC-autosamplers please see page 1469.



### 1 2 GC-Syringes PAL Headspace®

**HD syringe:** High Dynamic plunger has been optimised for higher throughput in the headspace technique.  
Novel metal spring allows working with enhanced tightness over a large temperature range. Which results in increased accuracy and reproducibility of your headspace GC analysis.

Hamilton

**HDHT syringe (on request):** Unique cement-free snap-on connection. The syringe is chemically inert and temperature stable up to 200 °C which broadens the range of possible applications.

Type	Capacity µl	Gauge	Point style	PK	Cat. No.
1001 HD	1000	23	5	1	6.200 515
1001 HD	1000	26	5	1	6.303 926
1002 HD	2500	23	5	1	6.201 089
1002 HD	2500	26	5	1	6.801 137



### 3 Microlitre syringe C-Line for PAL autosamplers

With fixed needles (FN).  
Needle length: 51mm

Hamilton

Type	Capacity µl	Gauge	Point style	PK	Cat. No.
701 FN CTC Slim Line*	10	22s	3 (HPLC)	1	6.200 686
1701 FN CTC Slim Line*	10	22s	3 (HPLC)	1	9.221 052
1702 FN CTC	25	22s	3 (HPLC)	1	6.200 903
1702 FN CTC Slim Line*	25	22s	3 (HPLC)	1	6.236 085
1710 FN CTC Slim Line*	100	22	3 (HPLC)	1	7.200 498
1725 FN CTC	250	22	3 (HPLC)	1	6.803 417
1750 FN CTC	500	22	3 (HPLC)	1	9.221 051
1001 LTN CTC	1000	22	3 (HPLC)	1	7.210 113
1002 LTN CTC	2500	22	3 (HPLC)	1	7.210 114
1005 LTN CTC	5000	22	3 (HPLC)	1	9.221 053

\*Slim Line=Glass barrel diameter 6.6 mm



### 4 Microlitre syringe X-Type for PAL autosamplers

With deactivated needle and glass barrel for inert liquid path and enhanced lifetime.  
Near zero carryover.

Hamilton

Needle length: 51 mm

Type	Capacity µl	Gauge	Point style	PK	Cat. No.
1702	25	22s	3 (HPLC)	1	6.256 766
1705	50	22s	3 (HPLC)	1	9.221 061
1710	100	22	3 (HPLC)	1	9.221 062
1710	100	22s	3 (HPLC)	1	6.260 430



### 5 Repeat dispensing device PB600-1 for Microlitre syringes

For syringes 25µl to 2.5ml. Dispenses 2% of total syringe volume each time the plunger is depressed.

Hamilton

Type	PK	Cat. No.
PB 600-1	1	9.221 650



9.143 057

### 6 Gas syringes, FORTUNA®, soda lime glass

Clear glass, with calibrated cylinder.  
With chemically-resistant, diffused amber stain graduations.

Poulsen & Graf

Type	Capacity ml	Grad. ml	PK	Cat. No.
Without stopcock	25	0.5	1	9.143 055
Without stopcock	50	0.5	1	9.143 056
Without stopcock	100	1.0	1	9.143 057 6
With capillary stopcock	50	0.5	1	9.143 066
With capillary stopcock	100	1.0	1	9.143 067

## 1 LLG-Glass-Syringes, borosilicate glass

**NEW**

1

With brown graduations. Sterilisable up to 134 °C.

Capacity ml	Material Cone	Nozzle type	PK	Cat. No.
1	Glass	Luer	1	6.272 088
2	Glass	Luer	1	6.272 089
5	Glass	Luer	1	6.272 090
10	Glass	Luer	1	6.272 091
20	Glass	Luer	1	6.272 092
50	Glass	Luer	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



## 2 All-glass syringes Dosys™, borosilicate glass 3.3

Socorex

2

The reusable borosilicate glass syringes offer superior chemical and heat shock resistance. A precious, low cost alternative to disposable plastic syringes, complementing the self-refilling models in many applications.

- Precision-machined plunger and barrel,
- Excellent fitting and liquid tightness (not gas tight)
- Permanent, high visibility graduations
- Autoclavable at 121 °C/250 °F

Capacity ml	Grad. ml	Material Cone	Nozzle type	PK	Cat. No.
0.1 - 1	0.05	Glass	Luer	3	6.253 931
0.2 - 5	0.2	Glass	Luer	3	6.261 028
1 - 10	0.2	Glass	Luer	3	6.261 029
1 - 20	1	Glass	Luer	2	6.235 425
1 - 30	2	Glass	Luer	2	7.658 119
10 - 100	10	Glass	Luer	1	6.254 727
0.1 - 1	0.05	Metal	Luer-Lock	3	6.902 600
0.5 - 2	0.1	Metal	Luer-Lock	3	6.902 601
0.2 - 5	0.2	Metal	Luer-Lock	3	6.902 602
1 - 10	0.2	Metal	Luer-Lock	3	6.902 603
1 - 20	1	Metal	Luer-Lock	2	6.902 604
1 - 30	2	Metal	Luer-Lock	2	7.658 120
1 - 50	2	Metal	Luer-Lock	1	6.902 605
10 - 100	10	Metal	Luer-Lock	1	6.241 758
10 - 150	10	Metal	Luer-Lock	1	6.261 030
10 - 200	10	Metal	Luer-Lock	1	6.261 031
10 - 250	10	Metal	Luer-Lock	1	6.241 759



## 3 4 Syringes, FORTUNA OPTIMA®, Glass

Poulten & Graf

3

Made of soda lime glass. With centre glass or metal luer nozzle (Luer or Luer-Lock).

Interchangeable plungers and barrels (between identical capacity syringes).

Autoclavable up to +134 °C. The amber graduation is acid and alkali resistant. Only for technical purposes.

Capacity ml	Material Cone	Nozzle type	PK	Cat. No.
1	Glass	Luer	1	9.222 021
2	Glass	Luer	1	9.222 022
5	Glass	Luer	1	9.222 025
10	Glass	Luer	1	9.222 030
20	Glass	Luer	1	9.222 032
50	Glass	Luer	1	9.222 035
1	Metal	Luer-Lock	1	9.222 061
2	Metal	Luer-Lock	1	9.222 062
5	Metal	Luer-Lock	1	9.222 065
10	Metal	Luer-Lock	1	9.222 070
20	Metal	Luer-Lock	1	9.222 072
50	Metal	Luer-Lock	1	9.222 075



4



**1**

**1** LLG-Disposable syringes, 3-parts, PP, non-sterile, bulk

- Barrel: PP, Plunger: PP and Polyisoprene rubber
- Smooth flow, tight, high transparency barrel
- Latex-free, pyrogen-free, DEHP-free, non-toxic
- Non-sterile, bulk packed in box of 500
- Defined safety stop to avoid accidental pull-out of plunger

Capacity ml	Nozzle type	PK	Cat. No.
2	Luer-Slip	500	<b>6.267 267</b>
5	Luer-Slip	500	<b>6.267 268</b>
10	Luer-Slip	500	<b>6.267 269</b>
20	Luer-Slip	500	<b>6.267 270</b>
2	Luer-Lock	500	<b>6.286 616</b>
5	Luer-Lock	500	<b>6.286 617</b>
10	Luer-Lock	500	<b>6.286 618</b>
20	Luer-Lock	500	<b>6.286 619</b>

**2**

**2** Disposable syringes HSW NORM-JECT®, 2-part, PP/PE, sterile

- PP barrel, with PE piston, with Luer or Luer-Lock nozzle
- smooth flow, tight, high transparency barrel
- no rubber, styrene or DEHP, latex- and silicone-oil-free
- pyrogen-free, PVC-free, non-toxic
- sterile, individually blister strip packed
- defined position of the plunger at volume "0" to feel when plunger is completely inserted
- extended graduation for wider range of application
- tested for use in HPLC
- defined safety stop to avoid accidental pull-out of plunger

*Henke-Sass Wolf*

Capacity ml	Nozzle type	PK	Cat. No.
1 : 1/100 (Tuberculin)	Luer	100	<b>9.410 000</b>
2 (3)	Luer	100	<b>9.410 002</b>
5 (6)	Luer	100	<b>9.410 005</b>
10 (12)	Luer	100	<b>9.410 010</b>
20 (24)	Luer	100	<b>9.410 020</b>
30	Luer	50	<b>9.410 025</b>
50 (60)	Luer	30	<b>9.410 050</b>
2 (3)	Luer-Lock	100	<b>6.234 387</b>
5 (6)	Luer-Lock	100	<b>6.234 388</b>
10 (12)	Luer-Lock	100	<b>6.286 306</b>
20 (24)	Luer-Lock	100	<b>7.631 525</b>
30	Luer-Lock	50	<b>6.250 919</b>
50 (60)	Luer-Lock	300	<b>6.703 951</b>

**3**

**3** Disposable syringes HSW SOFT-JECT®, 3-part, PP, sterile

- Barrel: PP, Plunger: PP and polyisoprene rubber
- Luer tip
- smooth flow, tight, high transparency barrel
- gliding of plunger supported by added slipping agent
- latex-free, pyrogen-free, DEHP-free, non-toxic
- sterile, individually blister strip packed
- defined safety stop to avoid accidental pull-out of plunger and loss of medicine

*Henke-Sass Wolf*

Capacity ml	PK	Cat. No.
1 (Tuberculin)	100	<b>9.410 061</b>
3	100	<b>9.410 062</b>
5	100	<b>9.410 063</b>
10	100	<b>9.410 064</b>
20	100	<b>9.410 065</b>
50 (60)	50	<b>9.410 066</b>



## 1 Syringes BD Discardit™ II, disposable, 2-piece, PP/PE, sterile

Clear barrel for perfect visualisation of syringe contents.

- 2-piece syringes with Luer-Tip
- Smooth plunger movement, reduced sliding force
- Retaining ring: prevents accidental plunger rod withdrawal
- Leak-tight: Tested in compliance with ISO 7886-1
- Scale marking: accurate graduation suited to user's needs
- Design of finger grip flanges ensure stability and comfort during injection
- Ergonomically designed plunger for single-handed operation
- Barrel material: Polypropylene
- Plunger material: Polyethylene
- Plunger lubricant: Oleamide
- Colour-coded packing units
- Sterilization method: Ethylene oxide
- Silicone oil-free
- Sterile single packing, single use, latex-free, PVC-free

For pressure applications we recommend three-part syringes.

Becton Dickinson



Capacity ml	Nozzle type	Grad. ml	PK	Cat. No.
2	Concentric	0.10	100	6.052 153
5	Eccentric	0.20	100	7.619 784
10	Eccentric	0.50	100	9.410 403
20	Eccentric	1.00	80	6.052 157

## 2 Disposable syringes, 3-piece, PP, sterile

Polypropylene with two-piece plunger and Luer nozzle. Without needle. Supplied sterile, individually pouch-sealed in outer boxes.

Capacity ml	PK	Cat. No.
2	100	9.950 297
5	100	9.950 298
10	100	9.950 299
20	120	9.950 300
50	60	9.950 301



## 3 Disposable needles HSW FINE-JECT®, PP/stainless steel, sterile

Sterile. Individually wrapped.

Luer-Lock fitting. Stainless steel in accordance with ISO 9626.

Henke-Sass Wolf

Type	Colour	Diam. mm	Length mm	PK	Cat. No.
Pravaz 1	yellow	0.9	40	100	9.410 101
Pravaz 2	green	0.8	40	100	9.410 102
Pravaz 12	black	0.7	30	100	9.410 112
Pravaz 14	blue	0.6	30	100	9.410 114
Pravaz 16	blue	0.6	25	100	9.410 116
Pravaz 18	brown	0.5	25	100	9.410 118
Pravaz 20	grey	0.4	20	100	9.410 120



## 4 Disposable needles, PP/Stainless steel, sterile

With Luer push-on fitting for use with disposable syringes. Supplied sterile in boxes of 100.

Diam. mm	Length mm	Gauge	PK	Cat. No.
1.2	40	18G x 1½ inch*	100	9.950 302
1.1	40	19G x 1½ inch	100	9.950 303
0.9	25	20G x 1 inch**	100	9.950 304
0.8	40	21G x 1½ inch**	100	9.950 305
0.6	25	23G x 1 inch	100	9.950 306
0.5	16	25G x ¾ inch	100	9.950 307

\* is a thin wall needle with a short bevel.

\*\*are intravenous thin wall needles.

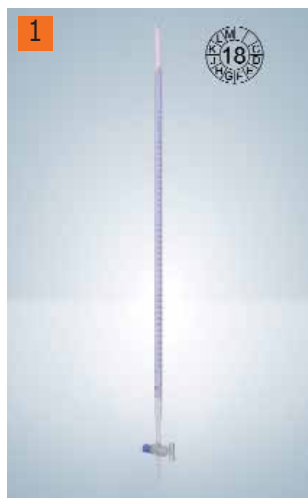


## Burettes, with straight stopcock, DURAN®, class AS

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. 500 mm. For those products batch calibration reports, which are free of charge, can be generated and printed on [www.hirschmannlab.de](http://www.hirschmannlab.de). 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	9.270 161
25	0.05	0.03	Glass key	1	9.270 162
50	0.1	0.05	Glass key	1	9.270 163 <sup>1</sup>
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 <sup>2</sup>
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



9.270 163



9.270 166

## 3 Burettes, with straight stopcock, borosilicate glass 3.3, Class AS

BLAUBRAND®, DIN EN ISO 385.

BRAND

DE-M marking. Calibrated to deliver (TD, Ex). Schellbach stripe. Length approx. 800 mm.

Ring graduations at major subdivisions. Marks and inscriptions in high contrast blue enamel. With batch number and one batch certificate per pack included. 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 with	PK	Cat. No.
ml	ml	± ml			
10	0.02	0.02	PTFE spindle	1	9.270 115
25	0.05	0.03	PTFE spindle	1	9.270 116
50	0.1	0.05	PTFE spindle	1	9.270 117
10	0.02	0.02	Glass key	1	9.270 118
25	0.05	0.03	Glass key	1	9.270 119
50	0.1	0.05	Glass key	1	9.270 120



## 4 Burettes, with straight stopcock, borosilicate glass 3.3, class AS

With class AS, conformity certified, with batch identification, blue graduations, DIN EN 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. DURAN Group  
 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.

- 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



9.270 157

### 2 Burettes, with lateral stopcock, DURAN®, class AS

With Schellbach stripe. EX (TD) calibrated. With dated batch identification. Hirschmann  
 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 500 mm.  
 For those products, batch calibration reports, which are free of charge, can be generated and printed on [www.hirschmannlab.com](http://www.hirschmannlab.com). 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	9.270 155
25	0.05	0.03	Glass key	1	9.270 156
50	0.1	0.05	Glass key	1	9.270 157 2
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 lateral stopcock, borosilicate glass 3.3, Class AS

BLAUBRAND®, DIN EN ISO 385. BRAND  
 Conformity certified. With batch number. Graduations and inscriptions in highly contrasting blue enamel. With Schellbach stripe. Length approx. 800 mm. Calibrated to deliver (EX). 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	Grad.	Tolerance	Stopcock with	PK	Cat. No.
ml	ml	± ml			
10	0,02	0,02	PTFE spindle	1	9.270 144
25	0,05	0,03	PTFE spindle	1	9.270 147
50	0,1	0,05	PTFE spindle	1	9.270 148
10	0,02	0,02	Glass key	1	9.270 121
25	0,05	0,03	Glass key	1	9.270 122
50	0,1	0,05	Glass key	1	9.270 125



### 4 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). **NEW**

**Scope of supply:** Burette tube with Schellbach stripe, stopcock with precision tip. Incl. one batch certificate.

Capacity	Grad.	Length	Tolerance	PK	Cat. No.
ml	ml	mm	± ml		
10	0.02	795	0.02	1	4.000 014
25	0.05	800	0.03	1	4.000 015
50	0.1	800	0.05	1	7.617 437

**1** 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). Schellbach *BRAND* 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	Grad.	Tolerance	Stopcock with	PK	Cat. No.
ml	ml	± ml			
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



**2** Burettes, lateral stopcock, Boro 3.3, Class B

**NEW**

SILBERBRAND, DIN EN ISO 385. Calibrated to deliver (TD, Ex). Schellbach stripe. Length approx. 800 mm.

*BRAND*

Capacity	Grad.	Tolerance	Stopcock with	PK	Cat. No.
ml	ml	± ml			
10	0.02	0.03	PTFE spindle	1	7.018 318
25	0.05	0.05	PTFE spindle	1	7.018 319
50	0.1	0.08	PTFE spindle	1	7.018 320



**3** Automatic burettes with splinter protection, Schilling pattern, borosilicate glass 3.3

**NEW**

Burette according to Dr. Schilling with splinter protection, with Schellbach stripe, automatic zeroing system 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
- Calibrated to Ex
- Shatterproof, resistant to chemicals
- Exact spout tip, fine droplet formation
- Medium touching parts: PE, natural rubber, PP, Borosilicate glass



Description	Capacity	Grad.	Tolerance	Height	PK	Cat. No.
	ml	ml	± ml	mm		
clear glass, schellbach, blue graduated	15	0.1	0.045	52	1	6.280 403
clear glass, schellbach, blue graduated	25	0.1	0.045	65	1	6.280 404
clear glass, schellbach, blue graduated	30	0.1	0.075	92	1	6.280 405



4.008 314



4.008 316

### Automatic burettes, schilling pattern, borosilicate glass 3.3/PE-LD

- 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.
- 10 ml burette has a polyethylene reservoir bottle of 500 ml volume whereas 25 and 50 ml burettes are used with bottles of 1000 ml volume.

Description	Capacity	Grad.	Tolerance	PK	Cat. No.
	ml	ml	± ml		
clear glass, schellbach, blue graduated	10	0,05	0,030	1	<b>4.008 314</b> 1
clear glass, schellbach, blue graduated	25	0,10	0,050	1	<b>6.241 904</b>
clear glass, schellbach, blue graduated	50	0,10	0,050	1	<b>4.008 315</b>
amber, without schellbach, white graduated	10	0,05	0,030	1	<b>4.008 316</b> 2
amber, without schellbach, white graduated	25	0,10	0,050	1	<b>4.008 317</b>
amber, without schellbach, white graduated	50	0,10	0,050	1	<b>4.008 318</b>



6.070 072

### Automatic burettes acc. to Schilling pattern, blue graduation, DURAN®

Fast flow burette with 500 ml plastic reservoir bottle (up to 10 ml) or 1000 ml (up to 15 ml). Schellbach stripe and graduation in high contrast blue enamel, scale length approx. 330 mm.

Hirschmann

Capacity	Grad.	Tolerance	Bottle size	Scale length	PK	Cat. No.
ml	ml	± ml	ml	approx. mm		
5	0.05	0.03	500	330	1	<b>6.070 009</b>
10	0.05	0.045	500	330	1	<b>7.510 426</b>
15	0.1	0.045	1000	330	1	<b>6.223 256</b>
25	0.1	0.075	1000	330	1	<b>7.510 427</b>
50	0.1	0.075	1000	550	1	<b>6.070 072</b> 3



### Automatic burettes, glass, Schilling pattern, borosilicate glass 3.3/PE-LD, class B

SILBERBRAND. Tolerances to class B, DIN EN ISO 385. Borosilicate glass 3.3 burette.

BRAND

PVC filling tube and silicone outlet tubing. PE-LD reservoir bottle with PE-HD 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	<b>9.271 053</b>
15*	0.1	0.08	500	510	1	<b>9.271 055</b>
25*	0.1	0.08	1000	620	1	<b>9.271 056</b>
50*	0.1	0.1	1000	830	1	<b>9.271 058</b>
25**	0.1	0.10	100	650	1	<b>7.981 360</b>
50**	0.1	0.1	1000	900	1	<b>6.239 724</b>

\* Narrower divisions

\*\*amber, borosilicate glass 5.4

## 1 Automatic burettes, Schilling pattern, borosilicate glass 3.3, PE-LD, class B

Made of borosilicate glass 3.3. Class B. Conformity with DIN ISO 384. With Schellbach stripes (blue/white) and 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.  
Material: burette of borosilicate glass 3.3, PP filling tube, PMP/PTFE burette stopcock, PE-LD reservoir bottle.

Amber borosilicate burette made of glass 3.3. Class B, for light sensitive substances. Conformity with DIN ISO 384. With easily readable black scaling. Calibrated to deliver EX. Automatic zeroing. The stopcock of the burette is made of high quality plastic. Its PTFE key turns easily and allows fine titration. 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, PP filling tube, PMP/PTFE burette stopcock, PE-LD reservoir bottle.



Burette capacity ml	Grad. ml	Tolerance ± ml	Bottle capacity ml	Height mm	Burette	PK	Cat. No.
25	0.05	0.05	1000	900	with plastic coating	1	9.271 082
50	0.10	0.10	1000	900	with plastic coating	1	9.271 084
25	0.05	0.05	1000	900	without plastic coating	1	9.271 085
50	0.10	0.10	1000	900	without plastic coating	1	9.271 086
25	0.05	0.05	1000	900	amber glass	1	9.271 087
50	0.10	0.10	1000	900	amber glass	1	9.271 088

## 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 and DIN 12700. 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 ("H") 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.**



4.008 312

6.238 473

Description	Capacity		Tolerance ± ml	Glass	Graduations	PK	Cat. No.
	ml	ml					
schellbach	10	0.02	0.020	clear	blue graduated	1	4.008 312 2
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 3
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

## Automatic burettes acc. Pellet, without intermediate stopcock, class AS, DURAN®

Lateral PTFE-spindle without intermediate stopcock. Main point ring graduation. Hirschmann  
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. Scale length approx. 500 mm.  
For those products, batch calibration reports, which are free of charge, can be generated and printed on [www.hirschmannlab.com](http://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 4



9.270 785



6.079 156

### Automatic burettes acc. Pellet, with stopcock, class AS, DURAN®

Lateral glass stopcock and intermediate stopcock. Scale length approx. 500 mm. 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.

Hirschmann

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

Capacity	Grad.	Tolerance	PK	Cat. No.
ml	ml	± ml		
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 1



9.270 780

### Automatic burettes acc, Pellet, with PTFE-spindle and intermediate stopcock, class AS, DURAN®

Lateral PTFE-spindle and intermediate stopcock. Scale length approx. 500 mm. 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.

Hirschmann

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

Capacity	Grad.	Tolerance	PK	Cat. No.
ml	ml	± ml		
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 2



### 3 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. 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).

BRAND

Complete with 2 litre, soda-lime glass reservoir (160 mm dia. x 200 mm height, with 29/32 ground glass neck). Overall height with bottle approx. 1 m. 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
10	0.02	0.02	Glass	1	9.270 734
25	0.05	0.03	Glass	1	9.270 737
50	0.1	0.05	Glass	1	9.270 738

### 1 Automatic burettes, Pellet pattern, borosilicate glass 3.3, with stopcock, Class AS, without bottle

NEW

BLAUBRAND®. Class AS, to DIN EN ISO 385. Boro 3.3. With intermediate stopcock. BRAND  
DE-M marking. 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
10	0.02	0.02	Glass	1	7.608 025
25	0.05	0.03	Glass	1	6.072 789
50	0.1	0.05	Glass	1	7.300 131



### 2 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



### 3 Automatic burettes, Pellet pattern, borosilicate glass 5.4 amber, class B, with stopcock

Amber borosilicate glass type 5.4. SILBERBRAND. With intermediate stopcock. BRAND  
25ml: Class B, Tolerance to DIN EN ISO 385.  
50ml: Class B, to DIN EN ISO 385.  
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 (160 mm dia. x 200 mm height, with 29/32 ground glass neck) as indicated. Overall height with bottle approx. 1 m.

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
with bottle	25*	0.1	0.08	Glass	1	9.270 536
with bottle	50	0.1	0.1	Glass	1	9.270 538
without bottle	25*	0.1	0.08	Glass	1	6.201 498
without bottle	50	0.1	0.1	Glass	1	6.201 499

\* Narrower divisions.







### 1 Automatic burettes, Pellet pattern, borosilicate glass 5.4 amber, class B, without stopcock

SILBERBRAND, amber glass. Borosilicate glass 5.4.  
25 ml: Error limits according to class B, DIN EN ISO 385.  
50 ml: DIN EN ISO 385, class B.

BRAND

Calibrated to deliver (TD, EX). Available with titration stopcock with PTFE key or glass key.

Total height 25 ml approx. 0.7 m, total height 50 ml approx. 1 m incl. 2000 ml bottle (soda-lime glass) as indicated.

Description	Capacity	Grad.	Tolerance	Keys	PK	Cat. No.
	ml	ml	± ml			
with bottle	25*	0.1	0.08	PTFE	1	7.079 511
with bottle	50	0.1	0.10	PTFE	1	6.072 800
without bottle	25*	0.1	0.08	PTFE	1	7.300 390
without bottle	50	0.1	0.10	PTFE	1	7.300 389
with bottle	25*	0.1	0.08	Glass	1	4.000 027
with bottle	50	0.1	0.10	Glass	1	6.203 367
without bottle	25*	0.1	0.08	Glass	1	7.055 909
without bottle	50	0.1	0.10	Glass	1	7.082 063

\* Narrower divisions.



6.237 628



6.238 474

### 2 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 2
brown	2000	160	200	1	6.238 474 3



### 4 Spare reservoir bottles, glass

Boro 3.3. Available in clear glass or amber glass or soda-lime glass. Volume: 2000 ml, diameter: 160 mm, height: 200 mm.

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

➔ Further Burette clamp please see our chapter 1

## 1 | 2 Digital Burettes, VITLAB® continuous

VITLAB

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.

- 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 (1.5 V)
- Dispensing volume per hand wheel revolution: 2.5 ml (Continuous E), 5.0 ml (Continuous RS)
- Device can be rotated on the bottle 360°
- Telescopic inlet tube extendible from 200 to 350 mm
- Adapters for drying tube and filter
- Certificate of conformity according to DIN 12600

Accuracy <math>\leq \pm 0.2\%</math>, Coefficient of variation <math>\leq \pm 0.1\%</math>

**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.

Type	Capacity ml	Capacity/U ml	Neck thread GL	PK	Cat. No.
E	2.5	2.5	45	1	9.284 020
RS	5.0	5.0	45	1	9.284 021



## Digital burettes, solarus®

Hirschmann

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.

- 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.

Description	Accuracy max. vol. ( $\leq \pm R\%$ )	Precision max. vol. ( $\leq CV\%$ )	PK	Cat. No.
Capacity 10 ml	0.3	0.1	1	9.287 779 <b>3</b>
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



9.287 779

## Accessories and spare parts, Solarus®

Hirschmann

Description	PK	Cat. No.
Discharge unit titration with fine tip	1	9.287 881
Discharge tube unit, flexible, spiral shaped, inner dia. 1.5 mm	1	6.206 625
Discharge unit titration, variable, complete with tube holder, approx. 400 mm, FEP	1	9.287 882
Adapter with A 45 filler	1	9.287 883
Thread adapter, silicone, A 45 compliant with NS 29/32 ground adapter	1	9.287 884



### 1 Bottle top burette Titrette®

BRAND

Titrette® - The next generation digital burette!

With the Titrette® bottle-top burette, you can titrate quickly and reliably with highest precision, even in close quarters, with no mains supply needed - in the lab, in production, or in the field!

- High accuracy
- precise titration within the error limits of Class A for glass burettes
- Smooth-running operation for sensitive, drop-wise titration
- 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 °SH = 1ml)

The large, easy-grip hand wheels are conveniently easy to turn. With the optimized gear ratio, you can fill the device quickly and titrate drop-wise with great sensitivity.

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):

All components only move within the housing, saving room on top. The compact design and the light-weight ensure good stability. 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.

**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. ( $\leq \pm R\%$ )	Precision max. vol. ( $\leq CV\%$ )	Interface	PK	Cat. No.
°SH (25)	0.07	0.025	without	1	4.007 918
10	0.10	0.05	without	1	6.259 209
25	0.07	0.025	without	1	9.271 332
50	0.06	0.02	without	1	9.271 333
10	0.10	0.05	incl.	1	9.271 338
25	0.07	0.025	incl.	1	9.271 334
50	0.06	0.02	incl.	1	9.271 335

### Accessories for Titrette®

BRAND

Description	PK	Cat. No.
Valve head for Titrette® 10 ml	1	9.284 161
Valve head for Titrette® 25 ml	1	4.000 395 <b>3</b>
Valve head for Titrette® 50 ml	1	4.000 396
Telescopic filling tubes 125 to 240	1	6.270 816
Telescopic filling tubes 170 to 330 mm	1	6.270 818
Telescopic filling tubes 250 to 480 mm	1	6.270 819
Inspection windows, 2 x transparent and 2 x brown	1	4.000 394 <b>2</b>
Dosing cylinder with valve block for Titrette® 10 ml	1	9.284 162
Dosing cylinder with valve block for Titrette® 25 ml, from series no. 01K	1	6.261 478 <b>4</b>
Dosing cylinder with valve block for Titrette® 50ml, from series no. 01K	1	6.261 803
Titration cannula Titrette® 10 ml with screw cap and integrated discharge/recirculation valve	1	9.284 163
Titration cannula Titrette® 25/50 ml with screw cap and integrated discharge/recirculation valve, from series no. 01K	1	6.261 119
Filling valve	1	9.284 482 <b>5</b>



4.000 394



4.000 395



6.261 478



9.284 482

### Digital-burette, opus®

Hirschmann

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.

- 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 p 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 100-240 V, 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. (± R%)	Precision max. vol. (≤ CV%)	PK	Cat. No.
Volume 10 ml	0.6	0.2	1	9.287 875 1
Volume 20 ml	0.6	0.2	1	9.287 870
Volume 50 ml	0.6	0.2	1	9.287 871

1



9.287 875

### 2 Motor-driven piston burette Titronic® 300

SI Analytics

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.

- 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. 100 ml/min (with 50 ml unit)
Fill time:	30 secs. to 99 secs. 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, 50/60 Hz
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

2

