6. Distillation, separation, filtration Contents

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Filtration 652
Filter paper, qualitative 652 Filter paper, quantitative 659 Glass-fibre filters 662 Membrane filters 665 Syringe filters 667 In-Line filter 683 Filtration apparatus 685

6. Distillation, separation, filtration Distillation, synthesis/Flasks with NS joint neck

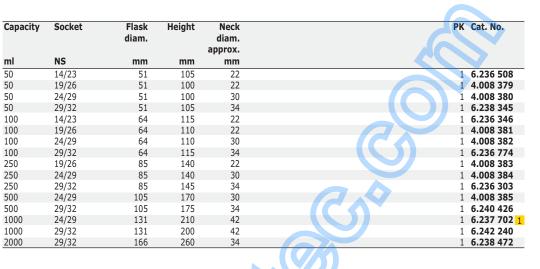


6.237 702

Round bottom flasks, borosilicate glass 3.3

Manufactured from borosilicate glass 3.3. Resistant to heat and almost all chemicals. According to DIN 12394. Reinforced rims are used to prevent breaking during washing and transportation.

Isolab





9.011 850

According material:		4797 and in addi	ition to standard (*), with inscription label,		Lenz
Capacity	Socket	Flask diam.		PK	Cat. No.
ml	NS	mm			
5	14/23*	30		1	6.201 199
10	14/23*	35		1	9.011 801
25	14/23	41		1	9.011 802
25	19/26	41		1	7.021 797
50	14/23	51		1	9.011 805
50	19/26	51		1	6.302 116
50	24/29	51		1	7.019 181
50	29/32	51		1	9.011 835
100	14/23	64		1	9.011 810
100	19/26	64		1	6,200 675
100	24/29	64		1	7.019 182
100	29/32	64		1	9.011 840
250	14/23*	85		1	9.011 815
250	19/26*	85		1	6.800 202
250	24/29	85		1	6.800 214
250	29/32	85		1	9.011 845
250	45/40*	85		1	9.011 867
500	24/29	105		1	6.800 215
500	29/32	105		1	9.011 850 2
500	45/40	105		1	9.011 868
1000	24/29	131		1	6.800 235
1000	29/32	131		1	9.011 855
1000	45/40	131			9.011 869
2000	29/32	166		1	9,011 860
2000	45/40	166		1	9.011 870
3000	29/32*	185		1	6.077 738
3000	45/40*	185		1	6.901 617
4000	29/32	207			9.011 865
4000	45/40	207			9.011 875
5000	29/32*	223			9.011 864
5000	45/40	223			9.011 877
6000	29/32*	236			9.011 866
6000	45/40	236			9.011 880
10000	45/40	279			9.011 885



E & OE. www.wenk-labtec.com

6. Distillation, separation, filtration Distillation, synthesis/Flasks with NS joint neck

Dound h	attam flag	ka haracili	coto aloca 2.2 ombor		4
			icate glass 3.3, amber		1
4anufactur	red from boros	ilicate glass 3.	3., amber. Resistant to heat and almost all chemicals	s. Isolab	
			is are used to prevent breaking during washing		1000
nd transp			5		
Capacity	Socket	Flask	Height	PK Cat. No.	
		diam.			
 I	NS				
ni 50	29/32	mm 51		1 9.141 091	
.00	29/32 29/32	64	105	1 7.980 357	
250	29/32	85	145	1 7.980 358	
500	29/32	105	175	1 9.141 092 1	(HS 29 / 32) (mil)
000	29/32	131	200	1 9.141 093	500 1000 33
					9.141 092
					9.141 092
Round h	ottom flag	ks with cou	nical ground joint, amber, DURAN®		2
					2
ccording t	to DIN EN ISO	4797, with ins	cription label, material: DURAN [®] .	Lenz	
Capacity	Socket	Flask		PK Cat. No.	(
apacity	DUCKET	diam.			
nl	NS	mm			
	22 (22	51		1 6.242 163	
	29/32			1 01272 100	
50 .00	29/32	64		1 9.011 827	
50 .00 250	29/32 29/32	64 85		1 9.011 827 1 9.011 828	
50 .00 250 500	29/32 29/32 29/32	64 85 105	~90	1 9.011 827 1 9.011 828 1 9.011 829 2	
50 .00 250	29/32 29/32	64 85		1 9.011 827 1 9.011 828	
50 .00 250 500	29/32 29/32 29/32	64 85 105		1 9.011 827 1 9.011 828 1 9.011 829 2	
50 .00 250 500	29/32 29/32 29/32	64 85 105		1 9.011 827 1 9.011 828 1 9.011 829 2	
50 .00 250 500	29/32 29/32 29/32	64 85 105		1 9.011 827 1 9.011 828 1 9.011 829 2	9.011 829
50 .00 250 500	29/32 29/32 29/32	64 85 105		1 9.011 827 1 9.011 828 1 9.011 829 2	9.011 829
50 .00 250 500	29/32 29/32 29/32	64 85 105		1 9.011 827 1 9.011 828 1 9.011 829 2	9.011 829
0 00 50 00	29/32 29/32 29/32	64 85 105		1 9.011 827 1 9.011 828 1 9.011 829 2	9.011 829
0 00 250 200 2000	29/32 29/32 29/32 29/32 29/32	64 85 105 166		1 9.011 827 1 9.011 828 1 9.011 829 2	
00 00 50 000 0000	29/32 29/32 29/32 29/32	64 85 105 166		1 9.011 827 1 9.011 828 1 9.011 829 2 1 6.253 256	9.011 829
0 00 50 00 000	29/32 29/32 29/32 29/32	64 85 105 166	eck 3. NS necks are in compliance with	1 9.011 827 1 9.011 828 1 9.011 829 2	
0 00 50 00 000 (jeldahl Ianufactur	29/32 29/32 29/32 29/32	64 85 105 166		1 9.011 827 1 9.011 828 1 9.011 829 2 1 6.253 256	
0 00 50 00 000 (jeldahl 1anufactur 0IN 12242	29/32 29/32 29/32 29/32 29/32 I flasks wit red from boros 2 standards.	64 85 105 166		1 9.011 827 1 9.011 828 1 9.011 829 2 1 6.253 256 Isolab	
0 00 50 00 000 (jeldahl 1anufactur IN 12242	29/32 29/32 29/32 29/32 1 flasks wit red from boros	64 85 105 166		1 9.011 827 1 9.011 828 1 9.011 829 2 1 6.253 256	
0 00 50 00 000 (jeldahl 1anufactur IN 12242	29/32 29/32 29/32 29/32 29/32 I flasks wit red from boros 2 standards.	64 85 105 166		1 9.011 827 1 9.011 828 1 9.011 829 2 1 6.253 256 Isolab	
0 00 50 00 000 (jeldahl 1anufactur IN 12242 apacity	29/32 29/32 29/32 29/32 I flasks wit red from boros standards. Socket	64 85 105 166		1 9.011 827 1 9.011 828 1 9.011 829 2 1 6.253 256 Isolab	
0 00 50 00 000 000 (jeldahl 1anufactur JIN 12242 apacity	29/32 29/32 29/32 29/32 29/32 I flasks wit red from boros 2 standards. Socket NS	64 85 105 166		1 9.011 827 1 9.011 828 1 9.011 829 2 1 6.253 256	
0 00 50 00 000 000 000 000 000	29/32 29/32 29/32 29/32 29/32 I flasks wit red from boros 2 standards. Socket NS 19/26	64 85 105 166		1 9.011 827 1 9.011 828 1 9.011 829 2 1 6.253 256 <i>Isolab</i> PK Cat. No. 1 9.140 385	
0 0 50 50 00 000 000 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2	29/32 29/32 29/32 29/32 29/32 I flasks wit red from boros 2 standards. Socket NS 19/26 29/32 29/32	64 85 105 166		1 9.011 827 1 9.011 828 1 9.011 829 2 1 6.253 256	
0 0 50 50 00 000 000 (jeldahl lanufactur IN 12242 apacity 1 00 50 00 50 00	29/32 29/32 29/32 29/32 29/32 I flasks wit red from boros standards. Socket NS 19/26 29/32 29/32 29/32	64 85 105 166		1 9.011 827 1 9.011 828 1 9.011 829 2 1 6.253 256	
0 00 50 000 000 (jeldahl 1anufactur	29/32 29/32 29/32 29/32 29/32 I flasks wit red from boros 2 standards. Socket NS 19/26 29/32 29/32	64 85 105 166		1 9.011 827 1 9.011 828 1 9.011 829 2 1 6.253 256	
0 00 50 50 000 000 50 50 50 50	29/32 29/32 29/32 29/32 29/32 I flasks wit red from boros standards. Socket NS 19/26 29/32 29/32 29/32	64 85 105 166		1 9.011 827 1 9.011 828 1 9.011 829 2 1 6.253 256	3
0 0 50 00 000 000 (jeldahl lanufactur IN 12242 apacity nl 00 50 00 50	29/32 29/32 29/32 29/32 29/32 I flasks wit red from boros standards. Socket NS 19/26 29/32 29/32 29/32	64 85 105 166		1 9.011 827 1 9.011 828 1 9.011 829 2 1 6.253 256	
0 0 50 00 000 000 (jeldahl lanufactur IN 12242 apacity nl 00 50 00 50	29/32 29/32 29/32 29/32 29/32 I flasks wit red from boros standards. Socket NS 19/26 29/32 29/32 29/32	64 85 105 166		1 9.011 827 1 9.011 828 1 9.011 829 2 1 6.253 256	3
0 0 50 50 00 000 000 (jeldahl lanufactur IN 12242 apacity 1 00 50 00 50 00	29/32 29/32 29/32 29/32 29/32 I flasks wit red from boros standards. Socket NS 19/26 29/32 29/32 29/32	64 85 105 166		1 9.011 827 1 9.011 828 1 9.011 829 2 1 6.253 256	3
))))))))))))))	29/32 29/32 29/32 29/32 29/32 I flasks wit red from boros standards. Socket NS 19/26 29/32 29/32 29/32	64 85 105 166		1 9.011 827 1 9.011 828 1 9.011 829 2 1 6.253 256	3
0 0 50 50 50 000 50 50 50 50 000 50 5	29/32 29/32 29/32 29/32 29/32 I flasks wit red from boros 2 standards. Socket NS 19/26 29/32 29/32 29/32 29/32	64 85 105 166		1 9.011 827 1 9.011 828 1 9.011 829 2 1 6.253 256	3
0 0 50 50 000 000 (jeldahl 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2	29/32 29/32 29/32 29/32 29/32 29/32 red from boros 2 standards. Socket NS 19/26 29/32 29/32 29/32 29/32 29/32 29/32	64 85 105 166 h ground n ilicate glass 3.	3. NS necks are in compliance with	1 9.011 827 1 9.011 828 1 9.011 829 2 1 6.253 256	3
0 0 50 50 000 000 (jeldahl 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2	29/32 29/32 29/32 29/32 29/32 29/32 red from boros 2 standards. Socket NS 19/26 29/32 29/32 29/32 29/32 29/32 29/32	64 85 105 166 h ground n ilicate glass 3.		1 9.011 827 1 9.011 828 1 9.011 829 2 1 6.253 256	3
0 0 50 50 000 000 (jeldahl 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2	29/32 29/32 29/32 29/32 29/32 29/32 red from boros 2 standards. Socket NS 19/26 29/32 29/32 29/32 29/32 29/32 29/32	64 85 105 166 h ground n ilicate glass 3.	3. NS necks are in compliance with	1 9.011 827 1 9.011 828 1 9.011 829 2 1 6.253 256	3
0 00 50 00 000 000 (jeldahl 00 50 00 50 000 (jeldahl for the det	29/32 29/32 29/32 29/32 29/32 I flasks wit red from boros 2 standards. Socket NS 19/26 29/32 29/32 29/32 29/32 29/32 29/32 29/32	64 85 105 166 h ground n ilicate glass 3.	3. NS necks are in compliance with	1 9.011 827 1 9.011 828 1 9.011 829 2 1 6.253 256	3
0 0 50 00 000 000 (jeldahl 10 11 12 12 12 12 12 12 12 12 12	29/32 29/32 29/32 29/32 29/32 29/32 red from boros 2 standards. Socket NS 19/26 29/32 29/32 29/32 29/32 29/32 29/32	64 85 105 166 h ground n ilicate glass 3.	3. NS necks are in compliance with	1 9.011 827 1 9.011 828 1 9.011 829 2 1 6.253 256	3
0 0 0 50 00 000 000 (jeldahl 1anufactur IN 12242 1apacity 1 00 50 000 (jeldahl 00 50 000 (jeldahl 1 00 50 00 0 1 1 1 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 2 1 2 2 2 2 1 2 2 2 2 2 1 2 2 2 2 1 2 2 2 2 1 2 2 2 2 1 2 2 2 2 1 2 2 2 2 2 1 2 2 2 2 2 1 2 2 2 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2	29/32 29/32 29/32 29/32 29/32 I flasks wit red from boros 2 standards. Socket NS 19/26 29/32 29/32 29/32 29/32 29/32 29/32 29/32	64 85 105 166 h ground n ilicate glass 3.	3. NS necks are in compliance with	1 9.011 827 1 9.011 828 1 9.011 829 2 1 6.253 256	3
0 0 0 50 50 000 000 (jeldahl 1 1 00 50 000 50 000 (jeldahl or the det (apacity 1) (apacity 1) 1) 1) 1) 1) 1) 1) 1) 1) 1)	29/32 29/32 29/32 29/32 29/32 I flasks wit red from boros 2 standards. Socket NS 19/26 29/32 29/32 29/32 29/32 29/32 29/32 29/32 29/32	64 85 105 166 h ground n ilicate glass 3.	3. NS necks are in compliance with	1 9.011 827 1 9.011 828 1 9.011 829 2 1 6.253 256	3
0 0 0 50 00 000 (jeldahl 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2	29/32 29/32 29/32 29/32 29/32 I flasks wit red from boros 2 standards. Socket NS 19/26 29/32 29/32 29/32 29/32 29/32 29/32 29/32 29/32 29/32 29/32 29/32 29/32 29/32	64 85 105 166 h ground n ilicate glass 3.	3. NS necks are in compliance with	1 9.011 827 1 9.011 828 1 9.011 829 2 1 6.253 256	3
0 0 0 50 50 000 000 (jeldahl 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2	29/32 29/32 29/32 29/32 29/32 I flasks wit red from boros 2 standards. Socket NS 19/26 29/32 29/32 29/32 29/32 29/32 29/32 29/32 29/32 29/32 29/32	64 85 105 166 h ground n ilicate glass 3.	3. NS necks are in compliance with	1 9.011 827 1 9.011 828 1 9.011 829 2 1 6.253 256	3
0 0 0 50 00 000 000 (jeldahl 10 11 12 12 12 12 12 12 12 12 12	29/32 29/32 29/32 29/32 29/32 I flasks wit red from boros 2 standards. Socket NS 19/26 29/32 29/32 29/32 29/32 29/32 29/32 29/32 29/32	64 85 105 166 h ground n ilicate glass 3.	3. NS necks are in compliance with	1 9.011 827 1 9.011 828 1 9.011 829 2 1 6.253 256	3
0 00 50 00 000 (jeldahl 1anufactur 0IN 12242 Capacity nl 00 50 000 50 000 50 000	29/32 29/32 29/32 29/32 29/32 I flasks wit red from boros 2 standards. Socket NS 19/26 29/32 29/32 29/32 29/32 29/32 29/32 29/32 29/32	64 85 105 166 h ground n ilicate glass 3.	3. NS necks are in compliance with	1 9.011 827 1 9.011 828 1 9.011 829 2 1 6.253 256	3
0 0 0 50 50 00 000 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2	29/32 29/32 29/32 29/32 29/32 I flasks wit red from boros 2 standards. Socket NS 19/26 29/32 29/32 29/32 29/32 29/32 29/32 29/32 29/32	64 85 105 166 h ground n ilicate glass 3.	3. NS necks are in compliance with	1 9.011 827 1 9.011 828 1 9.011 829 2 1 6.253 256	3

 1
 9.141 860

 1
 9.141 861

 1
 6.073 310 4

 1
 6.057 941

 1
 6.233 275

 1
 7.608 178
 81 101 115 126

6.073 310

Isolab

6. Distillation, separation, filtration Distillation, synthesis/Flasks with NS joint neck

ml

10

25

50

50

50



1 Pear shape flasks, borosilicate glass 3.3

Manufactured from borosilicate glass 3.3. Conformed to DIN 12383 standards. NS neck is in compliance with DIN 12242 standards.

Capacity Socket Cat. No. PK NS 14/23 6.236 347 14/23 6.237 164 14/23 6.237 165 100 250 14/23 6.237 166 14/23 9.140 302 25 19/26 9.140 303 19/26 9.140 304 100 250 19/26 19/26 9.140 305 9.140 306 50 24/29 9.140 307 100 24/29 9.140 308 9.140 309 250 24/29 29/32 9.140 310 100 29/32 6.257 941 250 29/32 9.140 311

2	

2	Pear shape f	lasks with cor	nical ground joints, DURAN®	
In ad	dition to DIN stand	lard, with inscription	on label, material: DURAN®	Lenz
Capac	city Socket	Flask	РК	Cat. No.
		diam.		
ml	NS	mm		
10	14/23	33	1	9.012 021
25	14/23	42	1	9.012 022
50	14/23	51	1	9.012 023
100	14/23	64	1	9.012 024

3	127	
	ELAB AND AND AND AND AND AND AND AND AND AND	2
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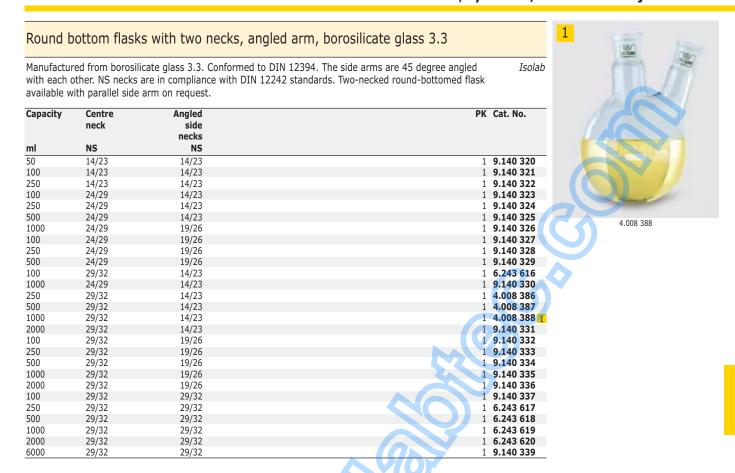
3	Pear shape flasks with side	neck, borosilicate glass 3.3	NEWI
Man	afactured from borosilicate glass 3.3 wh	nich is resistant to heat and almost all chemicals.	Isolab

Manufactured from borosilicate glass 3.3 which is resistant to heat and almost all chemicais. They meet the highest quality standards according to DIN 12383 standards. NS necks are in compliance with DIN 12242 standards and side neck has an angle of 25° with the center neck.

Capacity	Socket	Side necks	РК	Cat. No.
ml 📃	NS	NS		
25	14/23	14/23	1	9.140 312
50	14/23	14/23	1	9.140 313
100	14/23	14/23	1	9.140 314
250	14/23	14/23	1	9.140 315
25	19/26	14/23	1	9.140 316
50	19/26	14/23	1	9.140 317
100	19/26	14/23	1	9.140 318
250	19/26	14/23	1	9.140 319



6. Distillation, separation, filtration Distillation, synthesis/Flasks with NS joint neck



		n to standard (*).	With one central and o	ne 20° side angled ground joint necks	Len
as outlined	below.				
Capacity	Centre	Side	Flask	РК	Cat. No.
	neck	necks	diam.		
ml	NS	NS	mm		
25	14/23	14/23*	41		9.011 901
50	14/23	14/23*	51	1	9.011 902
100	14/23	14/23*	64		9.011 903
100	29/32	14/23*	64		9.011 904
100	29/32	19/26*	64		6.233 114
100	29/32	29/32*	64		6.204 819
250	14/23	14/23*	85		9.011 905
250	24/29	19/26*	85	1	6.206 139
250	29/32	14/23	85	1	9.011 906
250	29/32	19/26	85		6.225 989
250	29/32	29/32*	85		9.011 907
500	29/32	14/23	105		9.011 908
500	29/32	19/26	105		6.233 091
500	29/32	29/32*	105	1	9.011 910
1000	29/32	14/23	131	1	9.011 915
1000	29/32	19/26	131		6.231 953
1000	29/32	29/32*	131		9.011 920
2000	29/32	14/23	166		6.072 288
2000	29/32	29/32*	166		6.056 856
4000	29/32	29/32*	207	1	6.201 298



9.011 908

Round bottom flasks with two necks, with parallel neck available on request

Isolab



6.243 662

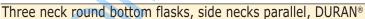
Round bottom flasks with three necks, NS joints, parallel arms, borosilicate glass 3.3

Manufactured from borosilicate glass 3.3. Conformed to DIN 12394. The flasks have thick walls, heavy bases and reinforced rims which prevent breaking. The side arms are parallel to the centre neck. NS necks are in compliance with DIN 12242 standards.

Capacity	Centre	Parallel	PK Cat. No.
capacity	neck	side	PR Cdt. NO.
	neek	necks	
		necks	
ml	NS	NS	
100	14/23	14/23	1 9.140 361
250	14/23	14/23	1 9.140 362
100	24/29	14/23	1 9.140 363
250	24/29	14/23	1 9.140 364
500	24/29	14/23	1 9.140 365
1000	24/29	14/23	1 9.140 366
100	24/29	19/26	1 9.140 367
250	24/29	19/26	1 9.140 368
500	24/29	19/26	1 9.140 369
1000	24/29	19/26	1 9.140 370
2000	24/29	19/26	1 9.140 371
100	29/32	14/23	1 9.140 372
250	29/32	14/23	1 6.243 654
500	29/32	14/23	1 6.243 655
1000	29/32	14/23	1 6.243 656
2000	29/32	14/23	1 9.140 373
100	29/32	19/26	1 9.140 374
250	29/32	19/26	1 6.243 657
500	29/32	19/26	1 6.243 658
1000	29/32	19/26	1 6.243 659
2000	29/32	19/26	1 9.140 375
250	29/32	29/32	1 6.243 660
500	29/32	29/32	1 6.243 661
1000	29/32	29/32	1 6.243 662 1
2000	29/32	29/32	1 6.243 663
4000	29/32	29/32	1 9.140 377
6000	29/32	29/32	1 9.140 378



2



DIN 12392 and in addition to DIN standard (*). All necks are parallel.

Lenz

Capacity	Centre	Side	Flask	PK Cat. No.
	neck	necks	diam.	
ml	NS	NS	mm	
100	24/29	19/26*	64	1 6.205 694
100	29/32	14/23*	64	1 9.011 933
100	29/32	19/26*	64	1 6.306 275
100	29/32	29/32	64	1 6.235 645
250	24/29	19/26*	85	1 7.021 838
250	29/32	14/23*	85	1 9.011 935
250	29/32	29/32*	85	1 9.011 936
500	24/29	19/26*	105	1 7.021 840
500	29/32	14/23*	105	1 9.011 938
500	29/32	19/26*	105	1 7.019 244
500	29/32	29/32*	105	1 9.011 939
1000	29/32	14/23*	131	1 9.011 941
1000	29/32	19/26*	131	1 6.203 572
1000	29/32	29/32	131	1 9.011 942
1000	45/40	29/32*	131	1 9.011 943
2000	29/32	14/23*	166	1 9.011 945
2000	29/32	19/26*	166	1 6.203 571
2000	29/32	29/32	166	1 9.011 946
2000	45/40	29/32	166	1 9.011 947
3000	29/32	29/32*	185	1 6.203 569
4000	29/32	14/23*	207	1 6.238 532
4000	29/32	29/32*	207	1 7.200 347
4000	45/40	29/32	207	1 9.011 950
5000	29/32	29/32*	223	1 6.306 286
5000	45/40	29/32*	223	1 9.011 949
6000	29/32	14/23*	236	1 6.803 543
6000	29/32	29/32	236	1 6.072 558
6000	45/40	29/32	236	1 9.011 951
10000	45/40	29/32*	279	1 9.011 952



6. Distillation, separation, filtration Distillation, synthesis/Flasks with NS joint neck

	erms are at 45 ecks are in com	ipliance with DIN				
Capacity	Centre neck	Angled side necks	Flask diam.		PK Cat. No.	
ml	NS	NS	mm			
100	29/32	14/23	85		1 9.141 090	
50	29/32	14/23	85		1 4.008 390	
250	29/32	19/26	85		1 4.008 393	
50	29/32	29/32	85		1 6.240 976	
00	29/32	14/23	105		1 4.008 391	
00	29/32	19/26	105		1 4.008 394	
500	29/32	29/32	105		1 6.240 977	
L000	29/32	14/23	131		1 4.008 392	
1000	29/32	19/26	131		1 4.008 395	
1000	29/32	29/32	131		1 6.240 978	
000	29/32	29/32	166		1 4.008 396	0
				hree neck, angled, DURAN® x 20° angled side necks.	NEW) Lenz	2
DIN 1239				x 20° angled side necks.	5	2
	4 and in additin Centre neck	on to standard (*) Side necks NS). Central neck with 2 Flask diam.	x 20° angled side necks.	Lenz PK Cat. No.	2
DIN 12394 Capacity nl	4 and in addition Centre neck NS 19/26 24/29	Side necks NS 14/23* 19/26*). Central neck with 2 Flask diam. mm	x 20° angled side necks.	Lenz	2
DIN 12394 Capacity nl 0 00 00	4 and in addition Centre neck NS 19/26 24/29 29/32	Side necks NS 14/23* 19/26* 14/23*). Central neck with 2 Flask diam. mm 51 64 64	x 20° angled side necks.	Lenz PK Cat. No. 1 6.202 804 1 6.204 321 1 9.011 953	2
apacity apacity nl 0 00 00 00 00	4 and in addition Centre neck NS 19/26 24/29 29/32 29/32	Side necks NS 14/23* 19/26* 14/23* 19/26*). Central neck with 2 Flask diam. 51 64 64 64 64	x 20° angled side necks.	Lenz PK Cat. No. 1 6.202 804 1 6.204 321 1 9.011 953 1 6.204 852	2
DIN 12394 apacity nl 0 00 00 00 00 00 00 00 00	4 and in addition Centre neck NS 19/26 24/29 29/32 29/32 29/32	Side necks NS 14/23* 19/26* 14/23* 19/26* 29/32*). Central neck with 2 Flask diam. mm 51 64 64 64 64 64 64	x 20° angled side necks.	Lenz PK Cat. No. 1 6.202 804 1 6.204 321 1 9.011 953 1 6.204 852 1 7.019 272	2
DIN 1239- Capacity nl 0 0 0 0 0 0 0 0 0 0 5 0	4 and in addition Centre neck NS 19/26 24/29 29/32 29/32 29/32 24/29	Side necks NS 14/23* 19/26* 14/23* 19/26* 29/32* 19/26*). Central neck with 2 Flask diam. mm 51 64 64 64 64 64 85	x 20° angled side necks.	Lenz PK Cat. No. 1 6.202 804 1 6.204 321 1 9.011 953 1 6.204 852 1 7.019 272 1 6.204 322	2 0 0.011 958
DIN 1239- Capacity nl 0 00 00 00 00 00 50 50	4 and in additi Centre neck NS 19/26 24/29 29/32 29/32 29/32 24/29 29/32	Side necks NS 14/23* 19/26* 14/23* 19/26* 29/32* 19/26* 19/26* 14/23). Central neck with 2 Flask diam. mm 51 64 64 64 64 64 64 85 85 85	x 20° angled side necks.	Lenz PK Cat. No. 1 6.202 804 1 6.204 321 1 9.011 953 1 6.204 852 1 7.019 272 1 6.204 322 1 9.011 955	2 0 0.011 958
DIN 1239- capacity nl 0 0 0 0 0 0 0 0 0 5 5 0 50 5	4 and in additi Centre neck NS 19/26 24/29 29/32 29/32 29/32 24/29 29/32 29/32 29/32	Side necks NS 14/23* 19/26* 14/23* 19/26* 29/32* 19/26* 19/26* 14/23 19/26). Central neck with 2 Flask diam. mm 51 64 64 64 64 64 85 85 85 85	x 20° angled side necks.	Lenz PK Cat. No. 1 6.202 804 1 6.204 321 1 9.011 953 1 6.204 852 1 7.019 272 1 6.204 322 1 9.011 955 1 9.011 955 1 9.011 957	2 0 0.011 958
DIN 12394 apacity 1 0 0 0 0 0 0 0 0 0 0 0 0 0	4 and in additi Centre neck NS 19/26 24/29 29/32 29/32 29/32 29/32 29/32 29/32 29/32 29/32 29/32	Side necks NS 14/23* 19/26* 14/23* 19/26* 29/32* 19/26* 14/23 19/26 29/32). Central neck with 2 Flask diam. mm 51 64 64 64 64 64 85 85 85 85 85 85	x 20° angled side necks.	Lenz PK Cat. No. 1 6.202 804 1 6.204 321 1 9.011 953 1 6.204 852 1 7.019 272 1 6.204 322 1 9.011 955 1 9.011 955 1 9.011 955	2 <i>V</i> <i>V</i> <i>V</i> <i>V</i> <i>V</i> <i>V</i> <i>V</i> <i>V</i> <i>V</i> <i>V</i>
IIN 12394 apacity 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 and in addition Centre neck NS 19/26 24/29 29/32 29/32 29/32 24/29 29/32 29/32 29/32 29/32 29/32 29/32 29/32 29/32	Side necks NS 14/23* 19/26* 14/23* 19/26* 29/32* 19/26* 19/26* 14/23 19/26 29/32 19/26 29/32 14/23*). Central neck with 2 Flask diam. mm 51 64 64 64 64 64 85 85 85 85 85 105	x 20° angled side necks.	Lenz PK Cat. No. 1 6.202 804 1 6.204 321 1 9.011 953 1 6.204 852 1 7.019 272 1 6.204 322 1 9.011 955 1 9.011 957 1 9.011 956 1 9.011 958 2	2 1 9.011 958
IIN 12394 apacity 11 0 0 0 0 0 0 0 0 0 5 5 5 5 5 0 0 0 0 0 0 0 0 0 0 0 0 0	4 and in additi Centre neck NS 19/26 24/29 29/32 29/32 29/32 29/32 29/32 29/32 29/32 29/32 29/32 29/32 29/32 29/32	Side necks NS 14/23* 19/26* 14/23* 19/26* 29/32* 19/26* 14/23 19/26* 14/23 19/26 29/32 14/23* 19/26). Central neck with 2 Flask diam. mm 51 64 64 64 64 64 85 85 85 85 105 105 105	x 20° angled side necks.	Lenz PK Cat. No. 1 6.202 804 1 6.204 321 1 9.011 953 1 6.204 852 1 7.019 272 1 6.204 322 1 9.011 955 1 9.011 955 1 9.011 958 2 9.011 958 2 1 9.011 960	2 <i>V</i> <i>V</i> <i>V</i> <i>V</i> <i>V</i> <i>V</i> <i>V</i> <i>V</i> <i>V</i> <i>V</i>
apacity apacity 11 0 0 0 0 0 0 0 0 0 0 5 0 5 0 5 0 5 0	4 and in additi Centre neck NS 19/26 24/29 29/32 29/32 29/32 29/32 29/32 29/32 29/32 29/32 29/32 29/32 29/32 29/32 29/32 29/32	Side necks NS 14/23* 19/26* 14/23* 19/26* 14/23 19/26* 14/23 19/26* 14/23 19/26 29/32 14/23* 19/26 29/32). Central neck with 2 Flask diam. mm 51 64 64 64 64 64 85 85 85 85 105 105 105 105	x 20° angled side necks.	Lenz PK Cat. No. 1 6.202 804 1 6.204 321 1 9.011 953 1 6.204 852 1 7.019 272 1 6.204 322 1 9.011 955 1 9.011 955 1 9.011 956 1 9.011 958 2 1 9.011 959	2 <i>Vertical</i> 9.011 958
iapacity apacity nl 0 0 0 0 0 0 0 0 0 0 5 5 5 5 5 5 0 0 0 0 0 0 0 0 0 0 0 0 0	4 and in additi Centre neck NS 19/26 24/29 29/32 29/32 29/32 29/32 29/32 29/32 29/32 29/32 29/32 29/32 29/32 29/32 29/32 29/32 29/32 29/32 29/32 29/32	Side necks NS 14/23* 19/26* 14/23* 19/26* 14/23* 19/26* 19/26* 14/23 19/26 29/32 14/23* 19/26 29/32 14/23*). Central neck with 2 Flask diam. mm 51 64 64 64 64 64 85 85 85 105 105 105 105 105 131	x 20° angled side necks.	Lenz PK Cat. No. 1 6.202 804 1 6.204 321 1 9.011 953 1 6.204 852 1 7.019 272 1 6.204 322 1 9.011 955 1 9.011 955 1 9.011 956 1 9.011 958 2 9.011 959 1 9.011 959 1 9.011 961	2 <i>()</i> 9.011 958
A pacity apacity h 0 0 0 0 0 0 0 0 0 0 0 0 0	4 and in additi Centre neck NS 19/26 24/29 29/32 29/32 29/32 29/32 29/32 29/32 29/32 29/32 29/32 29/32 29/32 29/32 29/32 29/32 29/32 29/32 29/32 29/32	Side necks NS 14/23* 19/26* 14/23* 19/26* 29/32* 19/26* 14/23 19/26 29/32 14/23* 19/26 29/32 14/23* 19/26 29/32 14/23* 19/26). Central neck with 2 Flask diam. mm 51 64 64 64 64 64 85 85 85 105 105 105 105 131 131	x 20° angled side necks.	Lenz PK Cat. No. 1 6.202 804 1 6.204 321 1 9.011 953 1 6.204 852 1 7.019 272 1 6.204 322 1 9.011 955 1 9.011 955 1 9.011 956 1 9.011 958 2 9.011 956 1 9.011 959 1 9.011 951 1 9.011 964	2 <i>()</i> 9.011 958
DIN 1239/ apacity 1 0 0 0 0 0 0 0 0 0 0 5 5 5 5 5 0 0 0 0 0 0 0 0 0 0 0 0 0	4 and in additi Centre neck NS 19/26 24/29 29/32 29/32 29/32 29/32 29/32 29/32 29/32 29/32 29/32 29/32 29/32 29/32 29/32 29/32 29/32 29/32 29/32 29/32	Side necks NS 14/23* 19/26* 14/23* 19/26* 29/32* 19/26* 14/23 19/26 29/32 14/23* 19/26 29/32 14/23* 19/26 29/32 14/23). Central neck with 2 Flask diam. mm 51 64 64 64 64 64 85 85 85 105 105 105 105 105 131	x 20° angled side necks.	Lenz PK Cat. No. 1 6.202 804 1 6.204 321 1 9.011 953 1 6.204 852 1 7.019 272 1 6.204 322 1 9.011 955 1 9.011 955 1 9.011 956 1 9.011 958 2 9.011 959 1 9.011 959 1 9.011 961	2 <i>()</i> 9.011 958
All 12394 Apacity apacity 1 0 0 0 0 0 0 0 0 0 0 0 0 0	4 and in additi Centre neck NS 19/26 24/29 29/32	Side necks NS 14/23* 19/26* 14/23* 19/26* 14/23* 19/26* 14/23 19/26 29/32* 14/23* 19/26 29/32 14/23* 19/26 29/32 14/23 19/26 29/32*). Central neck with 2 Flask diam. mm 51 64 64 64 64 64 85 85 85 85 105 105 105 105 131 131 131	x 20° angled side necks.	Lenz PK Cat. No. 1 6.202 804 1 6.204 321 1 9.011 953 1 6.204 852 1 7.019 272 1 6.204 322 1 9.011 955 1 9.011 955 1 9.011 956 1 9.011 958 2 9.011 958 1 9.011 959 1 9.011 964 1 9.011 962	2 <i>V</i> <i>V</i> <i>V</i> <i>V</i> <i>V</i> <i>V</i> <i>V</i> <i>V</i> <i>V</i> <i>V</i>
IIN 12394 apacity 11 0 0 0 0 0 0 0 0 0 0 0 0 0	4 and in additi Centre neck NS 19/26 24/29 29/32	Side necks NS 14/23* 19/26* 14/23* 19/26* 19/26* 29/32* 19/26* 29/32 14/23* 19/26 29/32 14/23* 19/26 29/32 14/23 19/26 29/32 14/23 19/26 29/32*). Central neck with 2 Flask diam. mm 51 64 64 64 64 85 85 85 105 105 105 105 105 131 131 131 131	x 20° angled side necks.	Lenz PK Cat. No. 1 6.202 804 1 6.204 321 1 9.011 953 1 6.204 852 1 7.019 272 1 6.204 852 1 7.019 272 1 6.204 852 1 9.011 955 1 9.011 955 1 9.011 958 2 9.011 958 2 9.011 961 1 9.011 962 1 9.011 963	2 <i>V</i> <i>V</i> <i>V</i> <i>V</i> <i>V</i> <i>V</i> <i>V</i> <i>V</i> <i>V</i> <i>V</i>
IIN 12394 apacity 11 0 0 0 0 0 0 0 0 0 0 0 0 0	4 and in additi Centre neck NS 19/26 24/29 29/32 45/40	Side necks NS 14/23* 19/26* 14/23* 19/26* 14/23* 19/26* 14/23 19/26* 29/32* 14/23* 19/26 29/32 14/23* 19/26 29/32 14/23 19/26 29/32* 19/26 29/32* 29/32*). Central neck with 2 Flask diam. mm 51 64 64 64 64 64 85 85 85 105 105 105 105 105 131 131 131 131 166 166 166	x 20° angled side necks.	Lenz PK Cat. No. 1 6.202 804 1 6.204 321 1 9.011 953 1 6.204 852 1 7.019 272 1 6.204 322 1 9.011 955 1 9.011 955 1 9.011 956 1 9.011 959 1 9.011 961 1 9.011 962 1 9.011 963 1 9.011 966 1 9.011 966 1 9.011 967	2 <i>V</i> <i>V</i> <i>V</i> <i>V</i> <i>V</i> <i>V</i> <i>V</i> <i>V</i> <i>V</i> <i>V</i>
IIN 12394 apacity 1 0 0 0 0 0 0 0 0 0 0 0 0 0	4 and in additi Centre neck NS 19/26 24/29 29/32	Side necks NS 14/23* 19/26* 14/23* 19/26* 19/26* 29/32* 19/26* 29/32 14/23* 19/26 29/32 14/23* 19/26 29/32 14/23 19/26 29/32 14/23 19/26 29/32*). Central neck with 2 Flask diam. mm 51 64 64 64 64 85 85 85 85 105 105 105 105 105 105 105 10	x 20° angled side necks.	Lenz PK Cat. No. 1 6.202 804 1 6.204 321 1 9.011 953 1 6.204 852 1 7.019 272 1 6.204 322 1 9.011 955 1 9.011 955 1 9.011 958 2 9.011 958 1 9.011 964 1 9.011 964 1 9.011 965 1 9.011 965 1 9.011 965 1 9.011 966	2 <i>V</i> <i>V</i> <i>V</i> <i>V</i> <i>V</i> <i>V</i> <i>V</i> <i>V</i> <i>V</i> <i>V</i>
IIN 12394 apacity 11 0 0 0 0 0 0 0 0 0 0 0 0 0	4 and in additi Centre neck NS 19/26 24/29 29/32 20/32 20	Side necks NS 14/23* 19/26* 14/23* 19/26* 14/23* 19/26* 14/23 19/26* 14/23 19/26 29/32* 14/23* 19/26 29/32 14/23* 19/26 29/32 14/23 19/26 29/32* 14/23 19/26 29/32* 29/32* 29/32*). Central neck with 2 Flask diam. mm 51 64 64 64 64 85 85 85 105 105 105 105 105 105 105 10	x 20° angled side necks.	Lenz PK Cat. No. 1 6.202 804 1 6.204 321 1 9.011 953 1 6.204 852 1 7.019 272 1 6.204 852 1 7.019 272 1 6.204 852 1 9.011 955 1 9.011 955 1 9.011 958 2 9.011 961 1 9.011 962 1 9.011 963 1 9.011 965 1 9.011 965 1 9.011 965 1 9.011 965 1 9.011 967 1 9.011 963 1 9.011 965 1 9.011 965 1 9.011 967 1 9.011 957 1 9.011 957	2 <i>()</i> 9.011 958
DIN 12394 capacity nl 0 0 0 0 0 0 0 0 0 0 0 0 0	4 and in additi Centre neck NS 19/26 24/29 29/32 29	Side necks NS 14/23* 19/26* 14/23* 19/26* 14/23* 19/26* 14/23 19/26* 14/23 19/26 29/32 14/23* 19/26 29/32 14/23* 19/26 29/32 14/23 19/26 29/32* 14/23 19/26 29/32* 14/23 29/32* 29/32* 29/32*). Central neck with 2 Flask diam. mm 51 64 64 64 64 64 85 85 85 105 105 105 105 105 105 105 131 131 131 131 131 131 131 13	x 20° angled side necks.	Lenz PK Cat. No. 1 6.202 804 1 6.204 321 1 9.011 953 1 6.204 322 1 9.011 955 1 9.011 955 1 9.011 955 1 9.011 957 1 9.011 958 2 9.011 958 1 9.011 963 1 9.011 963 1 9.011 965 1 9.011 966 1 9.011 968	2 <i>()</i> 9.011 958
DIN 1239 Capacity nl 0 0 0 0 0 0 0 0 0 0 0 0 0	4 and in additi Centre neck NS 19/26 24/29 29/32 45/40 29/32 29/32 45/40	Side necks NS 14/23* 19/26* 14/23* 19/26* 14/23* 19/26* 14/23 19/26* 29/32* 14/23 19/26 29/32 14/23* 19/26 29/32 14/23 19/26 29/32 14/23 29/32* 29/32* 29/32* 29/32* 29/32*). Central neck with 2 Flask diam. mm 51 64 64 64 64 64 85 85 85 85 105 105 105 105 105 105 105 10	x 20° angled side necks.	Lenz PK Cat. No. 1 6.202 804 1 6.204 321 1 9.011 953 1 6.204 852 1 7.019 272 1 6.204 852 1 7.019 272 1 6.204 322 1 9.011 955 1 9.011 955 1 9.011 958 2 9.011 958 1 9.011 964 1 9.011 965 1 9.011 965 1 9.011 965 1 9.011 965 1 9.011 965 1 9.011 967 1 6.203 014 1 7.615 379 1 9.011 968 1 9.011 971	2 <i>()</i> 9.011 958
IIN 12394 apacity 11 0 0 0 0 0 0 0 0 0 0 0 0 0	4 and in additi Centre neck NS 19/26 24/29 29/32 29	Side necks NS 14/23* 19/26* 14/23* 19/26* 14/23* 19/26* 14/23 19/26* 14/23 19/26 29/32 14/23* 19/26 29/32 14/23* 19/26 29/32 14/23 19/26 29/32* 14/23 19/26 29/32* 14/23 29/32* 29/32* 29/32*). Central neck with 2 Flask diam. mm 51 64 64 64 64 64 85 85 85 105 105 105 105 105 105 105 131 131 131 131 131 131 131 13	x 20° angled side necks.	Lenz PK Cat. No. 1 6.202 804 1 6.204 321 1 9.011 953 1 6.204 322 1 9.011 955 1 9.011 955 1 9.011 955 1 9.011 957 1 9.011 958 2 9.011 958 1 9.011 963 1 9.011 963 1 9.011 965 1 9.011 966 1 9.011 968	2

Nitrogen flasks with stopcock, borosilicate glass 3.3 3 Manufactured from borosilicate glass 3.3. NS necks are in compliance with DIN 12242 standards. With angled side neck with PTFE stopcock (2.5 mm hole). Isolab Capacity Socket PK Cat. No. NS ml 1 9.140 390 1 9.140 391 1 9.140 392 1 9.140 393 1 9.140 394 1 9.140 395 1 9.140 396 1 9.140 397 25 50 100 14/23 14/23 14/23 14/23 29/32 29/32 29/32 29/32 250 50 100 250 500 1 9.140 397 3 9.140 397 1000 29/32 1 9.140 398

6. Distillation, separation, filtration Distillation, synthesis/Flasks with NS joint neck

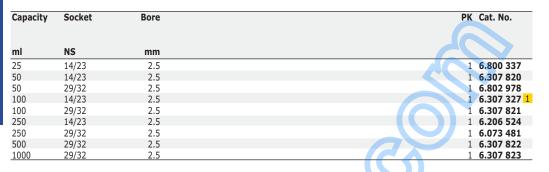


6.307 327

Nitrogen Round-bottom Flasks (Schlenk-Flasks), DURAN®

With an angled side arm with 2.5 mm glass stopcock.

Lenz





7.610 673



6.240 425

Nitrogen Tubes (Schlenk-Tubes), DURAN® tubing Made of DURAN[®] tubing. With conical joint and NS glass stopcock

Capacity	Centre neck	Bore		PK Cat. No.
ml	NS	mm		
10	14/23 Socket	2.5		1 7.610 673 2
25	14/23 Socket	2.5		1 7.610 674
50	14/23 Socket	2.5		1 6.901 799
100	14/23 Socket	2.5	NA	1 6.401 203
250	14/23 Socket	2.5		1 7.200 160



Flat bottom flasks, NS joint neck, borosilicate glass 3.3

Borosilicate glass 3.3. Resistant to heat and almost all chemicals. According to DIN 12394.

Isolab

1

9.011 986

Capacity	Socket	Height	РК	Cat. No.
ml	NS	mm		
50	19/26	100	1	6.243 607
50	24/29	100	1	6.243 608
50	29/32	100	1	4.008 377
100	14/23	110	1	6.243 609
100 🔍	19/26	110	1	6.243 610
100	24/29	110	1	6.243 611
100	29/32	110	1	6.236 773
250	19/26	140	1	6.243 612
250	24/29	140	1	6.243 613
250	29/32	140	1	6.238 346
500	24/29	170	1	6.243 614
500	29/32	170	1	6.240 425
1000	24/29	200		6.243 615
1000	29/32	200	1	4.008 378
2000	29/32	250		6.237 704



9.011 985

1000

29/32

*Supplementary to DIN.

According to DIN EN ISO 4797 and in addition to standard, with inscription label, Lenz material: DURAN® Volume Socket Flask PK Cat. No. external diam. ml NS mm 1 9.011 982 50 29/32 51 100 29/32 64 1 9.011 983 250 29/32 85 1 9.011 984 500* 105 1 9.011 985 4 29/32

E & OE. www.wenk-labtec.com

131

Flat bottom flasks with conical ground joint, DURAN®

6. Distillation, separation, filtration

Distillation, synthesis/Flasks with NS joint neck

9.012 018

9.012 008

9.012 016

9.012 009

9.012 019

9.012 010

6.900 828

7.607 913

4

Lenz

1

1

1

1

9.012 015 2

Erlenmeyer flasks, NS neck, borosilicate glass 3.3 1 Borosilicate glass 3.3. Conformed to DIN EN ISO 4797. Isolab NS necks are in compliance with DIN 12242 standards. Inscriptions are in white enamel which is specially designed for glass use. Capacity Socket Height PK Cat. No. ml NS mm 50 14/23 85 1 9.141 105 50 19/26 85 1 9.141 106 50 29/32 85 9.141 107 100 100 14/23 9.141 108 1 9.141 113 100 29/32 100 1 9.141 109 250 29/32 140 1 9.141 110 300 9.141 111 29/32 156 1 500 29/32 175 1 9.141 112 1000 29/32 220 9.141 113 1 Erlenmeyer flasks with ground glass joint, DURAN® Acc. to DIN EN ISO 4797 and in addition to standard (*), with scale (approx. volume/ml), Lenz with inscription label, material: DURAN®. Capacity Flask Socket PK Cat. No. diam. ml NS mm 6.200 447 10 14/23 42 1 25 14/23 42 9.012 001 25 50 19/26 42 7.019 150 14/23 51 9.012 002 50 24/29 51 7.019 155 50 29/32 51 9.012 012 9.012 015 100 14/23 64 9.012 003 100 24/29 64 7.019 156 100 29/32 64 9.012 013 79 200 29/32* 9.012 017 250 250 24/29 85 6.200 677 85 29/32 9.012 014 250 45/40* 85 9.012 006

Erlenme	eyer flasks	, NS neck,	borosilicate glass 3.3, amber		3
	5 /		ed to DIN EN ISO 4797. 2242 standards.	Isolab	
Capacity	Socket	Height	AR	PK Cat. No.	
ml	NS	mm			
100	29/32	100		1 6.258 244	
250	29/32	140		1 6.258 150	
500	29/32	175		1 6.255 806 3	
1000	29/32	220		1 9.140 401	

Iodine determination	flasks, with	and without	collar. DURAN®
round accontinuation		and mout	

- With overflow collar and NS29/32 iodine stopper.

300

500

500

1000

1000

2000

2000

3000

5000

29/32*

29/32

45/40*

29/32

45/40*

29/32

45/40*

45/40

45/40

- Without overflow collar, with NS29/32 hollow hexagonal stopper.

87

105

105

131

131

166

166

185

223

Capacity	Flask external diam.	Version	Description	PK Cat. No.	7.614 642
ml	mm				E ä
100	64	hollow	without collar	1 6.072 077)
250	85	hollow	without collar	1 6.401 428	
300	87	hollow	without collar	1 7.614 642 4	
500	105	hollow	without collar	1 6.226 757	NOT:
1000	131	hollow	without collar	1 6.230 605	(mA
100	64	iodine stopper	with collar	1 6.258 682	
250	85	iodine stopper	with collar	1 6.230 826 5	(\rightarrow)
500	105	iodine stopper	with collar	1 7.980 791	1000
					6.230 826



6.255 806

577

NEW

PK Cat. No.

1 9.043 306 1 9.043 307 1

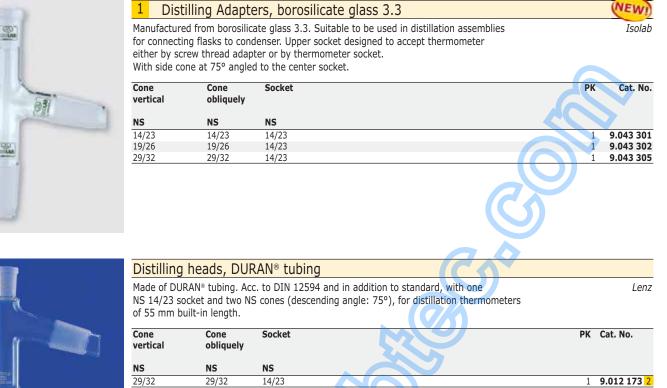
1

9.043 310

9.043 311 3

Isolab

6. Distillation, separation, filtration Distillation, synthesis/Components for reaction and distillation





1



9.043 311



Cone vertical	Cone obliquely	Socket
NS	NS	NS
14/23	14/23	14/23
19/26	19/26	14/23
29/32	14/23	14/23
29/32	29/32	14/23
Distilling	heads acc.	to Claisen, sloping, DURAN [®] tubing

Manufactured from borosilicate glass 3.3. Suitable to be used in distillation assemblies

for connecting flasks to condenser. Upper socket designed to accept thermometer either by screw thread adapter or by thermometer socket. Claisen type has a similar use as a standard still head adapter but it is supplied with an extra socket to accept dropping funnels, stirrers and so on.

Distilling he	eads acc.	to Claisen, sloping, DURAN [®] tubing		
with two paralle	el NS 14/23 s	to DIN 12594 and in addition to standard (*), ockets and two NS cones (descending angle: 75°),		Lenz
for distillation t	hermometers	of 55 mm built-in length.		
Cone vertical	Cone obliquely	Socket	РК	Cat. No.
NS	NS	NS		
29/32	14/23	14/23*	1	9.012 182

Manufacti chemicals		licate glass 3.3 which is resistant to heat and almost all		Isolab
Cone	Effective length	Description	РК	Cat. No.
NS	mm			
14/23	150	Standard	1	9.012 287
29/32	350	Standard	1	9.012 288
14/23	150	with socket for thermometers	1	9.012 289
29/32	350	with socket for thermometers		9.012 290



29/32 14/23 Distilling Adapters, Claisen heads, borosilicate glass 3.3

29/32	29/32	14/23	1 9	0.012 183 4
5 Di	stilling links	without condenser, borosilicate glass 3.3		NEWI
Manufactu chemicals		icate glass 3.3 which is resistant to heat and almost all		Isolab
Cone	Effective length	Description	РК	Cat. No.
NS	mm			
14/23	150	Standard	1	9.012 287
29/32	350	Standard	1	9.012 288
14/23	150	with socket for thermometers	1	9.012 289
29/32	350	with socket for thermometers	1	9.012 290

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6. Distillation, separation, filtration Distillation, synthesis/Components for reaction and distillation

	ing Links, Dl				1
Made of	DURAN® tubing.	Distilling links	without condenser, with two vertical NS-cones.	Lenz	
With or	without socket N	S14/23 for dist	illation thermometers of 55mm built-in length.		
Cone	Socket	Effective		PK Cat. No.	
		length			9.012 203
NS	NS	mm			
29/32	-	350		1 9.012 203 1 1 9.012 213 2	
29/32	14/23	350		1 9.012 213 2	
					9.012 213
3				NEWI	3
5	stillheads, gr	ound glass	joint, with integral Liebig condenser		5
Manufac	tured from boros	cilicato glace 3 '	3 which is resistant to heat and almost all chemicals.	Isolab	
			/23 for distillation thermometers.	Isolab	
	e with or without				-1
Cone	Socket	Effective	Description	PK Cat. No.	8
cone	Joenet	length		Cat. NO.	
NE	NS				6
NS 14/23	14/23	mm 160	without vacuum receiver adapter	1 9.012 291	35
14/23	14/23	250	without vacuum receiver adapter	1 9.012 292	4
29/32	14/23	250	without vacuum receiver adapter	1 9.012 293	
29/32 14/23	14/23 14/23	400 160	without vacuum receiver adapter with vacuum receiver adapter	1 9.012 294 1 9.012 295	
14/23	14/23	250	with vacuum receiver adapter	1 9.012 296	
29/32 29/32	14/23 14/23	250 400	with vacuum receiver adapter with vacuum receiver adapter	1 4.008 375 1 9.012 297	
29/32	14/25	400		1 9.012 297	
Distilli	ing links with	n Liebig cor	idenser, DURAN [®] tubing		4
					- Consideration of the second
			th Liebig condenser at 75° and vertical outlet	Lenz	
			ith glass olives or thread GL14. rmometers of 55mm built-in length.		
With soc	cket NS 14/23 for	r distillation the	rmometers of 55mm built-in length.		
		r distillation the Effective		PK Cat. No.	9.012 266
With soc	cket NS 14/23 for Socket	r distillation the	rmometers of 55mm built-in length.	PK Cat. No.	9.012 266
With soc	sket NS 14/23 for Socket NS	r distillation the Effective length mm	rmometers of 55mm built-in length.		9.012 266
With soc Cone NS 14/23	Socket NS 14/23 for Socket NS 14/23	r distillation the Effective length mm 160	rmometers of 55mm built-in length. Connection GL	1 6.203 415	9.012 266
With soc Cone NS 14/23 29/32 14/23	NS 14/23 14/23 14/23 14/23 14/23 14/23	r distillation the Effective length mm 160 250 250	Connection GL GL GL GL	1 6.203 415 1 6.203 416 1 9.012 264	9.012 266
With soc Cone NS 14/23 29/32 14/23 29/32	NS 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23	r distillation the Effective length 160 250 250 250	Connection GL GL GL Olive	1 6.203 415 1 6.203 416 1 9.012 264 1 9.012 266 4	9.012 266
With soc Cone NS 14/23 29/32 14/23	NS 14/23 14/23 14/23 14/23 14/23 14/23	r distillation the Effective length mm 160 250 250	Connection GL GL GL GL	1 6.203 415 1 6.203 416 1 9.012 264	9.012 266
With soc Cone NS 14/23 29/32 14/23 29/32 29/32 5	NS 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23	r distillation the Effective length 160 250 250 250 400	Connection GL GL GL olive olive	1 6.203 415 1 6.203 416 1 9.012 264 1 9.012 266 4 1 9.012 268	9.012 266
With soc Cone NS 14/23 29/32 14/23 29/32 29/32 5	NS 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23	r distillation the Effective length 160 250 250 250 400	Connection GL GL GL Olive	1 6.203 415 1 6.203 416 1 9.012 264 1 9.012 266 4 1 9.012 268	9.012 266
With soc Cone NS 14/23 29/32 14/23 29/32 29/32 29/32 5 C	Socket NS 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23	r distillation the Effective length mm 160 250 250 250 250 400 s with Liebi	Connection GL GL GL Olive Oliv	1 6.203 415 1 6.203 416 1 9.012 264 1 9.012 266 4 1 9.012 268 9.012 268	9.012 266
With soc Cone NS 14/23 29/32 14/23 29/32 29/32 29/32 5 C Made of	Socket NS 14/23	r distillation the Effective length mm 160 250 250 250 250 400 s with Liebi Distilling links	rmometers of 55mm built-in length. Connection GL GL GL Olive	1 6.203 415 1 6.203 416 1 9.012 264 1 9.012 266 4 1 9.012 268	9.012 266
With soc Cone NS 14/23 29/32 14/23 29/32 29/32 29/32 5 C Made of water co	NS 14/23 for NS 14/23	r distillation the Effective length mm 160 250 250 250 250 400 s with Liebi Distilling links	Connection GL GL GL Olive Oliv	1 6.203 415 1 6.203 416 1 9.012 264 1 9.012 266 4 1 9.012 268 9.012 268	9.012 266
With soc Cone 14/23 29/32 14/23 29/32 29/32 29/32 5 C Made of water cc of 55mn	NS 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 0istilling links DURAN® tubing. DURAN® tubing. DURAN® tubing.	r distillation the Effective length mm 160 250 250 250 400 S with Liebi Distilling links read GL14, with	rmometers of 55mm built-in length. Connection GL GL GL Olive	1 6.203 415 1 6.203 416 1 9.012 264 1 9.012 266 4 1 9.012 268 g Lenz	9.012 266
With soc Cone NS 14/23 29/32 14/23 29/32 29/32 29/32 5 C Made of water co	NS 14/23 for NS 14/23	r distillation the Effective length mm 160 250 250 250 400 S with Liebi Distilling links read GL14, with Effective	rmometers of 55mm built-in length. Connection GL GL GL Olive	1 6.203 415 1 6.203 416 1 9.012 264 1 9.012 266 4 1 9.012 268 9.012 268	9.012 266
With soc Cone NS 14/23 29/32 14/23 29/32 29/32 5 Cone Cone	Socket NS 14/23 for Socket NS 14/23 14/23 14/23 14/23 14/23 14/23 Distilling links DURAN® tubing. DURAN® tubing. DURAN® tubing. DURAN® tubing. Socket	r distillation the Effective length mm 160 250 250 250 250 400 S with Liebi Distilling links read GL14, with Effective length	rmometers of 55mm built-in length. Connection GL GL GL Olive	1 6.203 415 1 6.203 416 1 9.012 264 1 9.012 266 4 1 9.012 268 g Lenz	9.012 266
With soc Cone NS 14/23 29/32 14/23 29/32 29/32 5 Cone NS	sket NS 14/23 for Socket NS 14/23 14/23 14/23 14/23 14/23 14/23 Distilling links DURAN® tubing. DURAN® tubing. DURAN® tubing. DURAN® tubing. Socket NS	r distillation the Effective length mm 160 250 250 250 250 400 S with Liebi Distilling links read GL14, with Effective length mm	rmometers of 55mm built-in length. Connection GL GL GL Olive	1 6.203 415 1 6.203 416 1 9.012 264 1 9.012 266 4 1 9.012 268 g Lenz PK Cat. No.	9.012 266
With soc Cone NS 14/23 29/32 29/32 29/32 29/32 29/32 Cone NS 14/23	Socket NS 14/23 for Socket NS 14/23 14/23 14/23 14/23 14/23 Distilling links DURAN [®] tubing. DURAN [®] tubing.	r distillation the Effective length mm 160 250 250 400 S with Liebi Distilling links read GL14, with Effective length mm 160	rmometers of 55mm built-in length. Connection GL GL GL Olive	1 6.203 415 1 6.203 416 1 9.012 264 1 9.012 266 4 1 9.012 268 g Lenz PK Cat. No. 1 6.202 281	9.012 266
With soc Cone 14/23 29/32 14/23 29/32 29/32 5 C Made of water cc of 55mn Cone NS 14/23 14/23 14/23 29/32	NS 14/23 14	r distillation the Effective length mm 160 250 250 250 400 S with Liebi Distilling links read GL14, with Effective length mm 160 250 250 250 250 250 250 250 25	rmometers of 55mm built-in length. Connection GL GL GL Olive	1 6.203 415 1 6.203 416 1 9.012 264 1 9.012 266 4 1 9.012 268	9.012 266
With soc Cone 14/23 29/32 14/23 29/32 29/32 29/32 5 Cone NS 14/23 14/23 14/23	sket NS 14/23 for Socket NS 14/23 14/23 14/23 14/23 14/23 14/23 Distilling links DURAN® tubing. DURAN® tubing. DURAN® tubing. DURAN® tubing. Socket NS 14/23 14/23	r distillation the Effective length mm 160 250 250 400 S with Liebi Distilling links read GL14, with Effective length mm 160 250	rmometers of 55mm built-in length. Connection GL GL GL Olive	1 6.203 415 1 6.203 416 1 9.012 264 1 9.012 266 4 1 9.012 268	9.012 266
With soc Cone 14/23 29/32 14/23 29/32 29/32 29/32 Made of water cc of 55mn Cone NS 14/23 14/23 29/32 29/32	Socket NS 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 0istilling links DURAN® tubing. Dunection with th n built-in length. Socket NS 14/23 14/23 14/23 14/23	r distillation the Effective length mm 160 250 250 250 400 S with Liebi Distilling links read GL14, with Effective length mm 160 250 250 400	Connection GL GL Olive GL Olive g condenser and GL thread, DURAN® tubin with Liebig condenser, outlet with NS cone, n socket NS 14/23 for distillation thermometers	1 6.203 415 1 6.203 416 1 9.012 264 1 9.012 266 4 1 9.012 268	9.012 266
With soc Cone 14/23 29/32 14/23 29/32 29/32 29/32 Made of water cc of 55mn Cone NS 14/23 14/23 29/32 29/32	Socket NS 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 0istilling links DURAN® tubing. Dunection with th n built-in length. Socket NS 14/23 14/23 14/23 14/23	r distillation the Effective length mm 160 250 250 250 400 S with Liebi Distilling links read GL14, with Effective length mm 160 250 250 400	rmometers of 55mm built-in length. Connection GL GL GL olive olive g condenser and GL thread, DURAN® tubin with Liebig condenser, outlet with NS cone,	1 6.203 415 1 6.203 416 1 9.012 264 1 9.012 266 4 1 9.012 268	9.012 266
With soc Cone 14/23 29/32 14/23 29/32 29/32 29/32 5 Cone NS 14/23 14/23 14/23 29/32 29/32 29/32 Distilli Made of	NS 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 Distilling links Distilling links 14/23 DURAN® tubing. Durection with the built-in length. Socket NS 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/24 14/23 14/23 14/25 14/23 14/23 14/24 14/23 <td>r distillation the Effective length mm 160 250 250 250 250 30 400 S with Liebi Distilling links read GL14, with Effective length mm 160 250 250 400 S with Liebi 250 250 400 S with Liebi 250 250 400 S with Liebi 250 250 400 S with Liebi 250 250 250 400 S with Liebi 250 250 250 400 S with Liebi 250 250 400 S with Liebi 250 250 400 S with Liebi 250 250 250 400 S with Liebi 250 250 400 S with Liebi 250 250 400 S with Liebi 250 250 250 400 S with Liebi 250 250 250 400 S with Liebi 250 250 250 400 S with Liebi 250 250 250 250 250 400 S with Liebi 250 250 250 250 250 250 250 250</td> <td>rmometers of 55mm built-in length. Connection GL GL GL GL Olive O</td> <td>1 6.203 415 1 6.203 416 1 9.012 264 1 9.012 266 4 1 9.012 268</td> <td>9.012 266</td>	r distillation the Effective length mm 160 250 250 250 250 30 400 S with Liebi Distilling links read GL14, with Effective length mm 160 250 250 400 S with Liebi 250 250 400 S with Liebi 250 250 400 S with Liebi 250 250 400 S with Liebi 250 250 250 400 S with Liebi 250 250 250 400 S with Liebi 250 250 400 S with Liebi 250 250 400 S with Liebi 250 250 250 400 S with Liebi 250 250 400 S with Liebi 250 250 400 S with Liebi 250 250 250 400 S with Liebi 250 250 250 400 S with Liebi 250 250 250 400 S with Liebi 250 250 250 250 250 400 S with Liebi 250 250 250 250 250 250 250 250	rmometers of 55mm built-in length. Connection GL GL GL GL Olive O	1 6.203 415 1 6.203 416 1 9.012 264 1 9.012 266 4 1 9.012 268	9.012 266
With soc Cone 14/23 29/32 14/23 29/32 29/32 29/32 5 Cone NS 14/23 14/23 14/23 29/32 29/32 29/32 Distilli Made of	NS 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 Distilling links Distilling links 14/23 DURAN® tubing. Durection with the built-in length. Socket NS 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/24 14/23 14/23 14/25 14/23 14/23 14/24 14/23 <td>r distillation the Effective length mm 160 250 250 250 250 30 400 S with Liebi Distilling links read GL14, with Effective length mm 160 250 250 400 S with Liebi 250 250 400 S with Liebi 250 250 400 S with Liebi 250 250 400 S with Liebi 250 250 250 400 S with Liebi 250 250 250 400 S with Liebi 250 250 400 S with Liebi 250 250 400 S with Liebi 250 250 250 400 S with Liebi 250 250 400 S with Liebi 250 250 400 S with Liebi 250 250 250 400 S with Liebi 250 250 250 400 S with Liebi 250 250 250 400 S with Liebi 250 250 250 250 250 400 S with Liebi 250 250 250 250 250 250 250 250</td> <td>rmometers of 55mm built-in length. Connection GL GL GL Olive Olive Condenser and GL thread, DURAN® tubin with Liebig condenser, outlet with NS cone, n socket NS 14/23 for distillation thermometers , with olive, DURAN® tubing</td> <td>1 6.203 415 1 6.203 416 1 9.012 264 1 9.012 266 4 1 9.012 268</td> <td>9.012 266</td>	r distillation the Effective length mm 160 250 250 250 250 30 400 S with Liebi Distilling links read GL14, with Effective length mm 160 250 250 400 S with Liebi 250 250 400 S with Liebi 250 250 400 S with Liebi 250 250 400 S with Liebi 250 250 250 400 S with Liebi 250 250 250 400 S with Liebi 250 250 400 S with Liebi 250 250 400 S with Liebi 250 250 250 400 S with Liebi 250 250 400 S with Liebi 250 250 400 S with Liebi 250 250 250 400 S with Liebi 250 250 250 400 S with Liebi 250 250 250 400 S with Liebi 250 250 250 250 250 400 S with Liebi 250 250 250 250 250 250 250 250	rmometers of 55mm built-in length. Connection GL GL GL Olive Olive Condenser and GL thread, DURAN® tubin with Liebig condenser, outlet with NS cone, n socket NS 14/23 for distillation thermometers , with olive, DURAN® tubing	1 6.203 415 1 6.203 416 1 9.012 264 1 9.012 266 4 1 9.012 268	9.012 266
With soc Cone 14/23 29/32 14/23 29/32 29/32 29/32 5 Cone NS 14/23 14/23 14/23 29/32 29/32 29/32 Distilli Made of	NS 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 Distilling links Distilling links 14/23 DURAN® tubing. Durection with the built-in length. Socket NS 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/24 14/23 14/23 14/25 14/23 14/23 14/24 14/23 <td>r distillation the Effective length mm 160 250 250 250 250 30 400 S with Liebi Distilling links read GL14, with Effective length mm 160 250 250 400 S with Liebi 250 250 400 S with Liebi 250 250 400 S with Liebi 250 250 400 S with Liebi 250 250 250 400 S with Liebi 250 250 250 400 S with Liebi 250 250 400 S with Liebi 250 250 400 S with Liebi 250 250 250 400 S with Liebi 250 250 400 S with Liebi 250 250 400 S with Liebi 250 250 250 400 S with Liebi 250 250 250 400 S with Liebi 250 250 250 400 S with Liebi 250 250 250 250 250 400 S with Liebi 250 250 250 250 250 250 250 250</td> <td>rmometers of 55mm built-in length. Connection GL GL GL GL Olive O</td> <td>1 6.203 415 1 6.203 416 1 9.012 264 1 9.012 266 4 1 9.012 268</td> <td>9.012 266</td>	r distillation the Effective length mm 160 250 250 250 250 30 400 S with Liebi Distilling links read GL14, with Effective length mm 160 250 250 400 S with Liebi 250 250 400 S with Liebi 250 250 400 S with Liebi 250 250 400 S with Liebi 250 250 250 400 S with Liebi 250 250 250 400 S with Liebi 250 250 400 S with Liebi 250 250 400 S with Liebi 250 250 250 400 S with Liebi 250 250 400 S with Liebi 250 250 400 S with Liebi 250 250 250 400 S with Liebi 250 250 250 400 S with Liebi 250 250 250 400 S with Liebi 250 250 250 250 250 400 S with Liebi 250 250 250 250 250 250 250 250	rmometers of 55mm built-in length. Connection GL GL GL GL Olive O	1 6.203 415 1 6.203 416 1 9.012 264 1 9.012 266 4 1 9.012 268	9.012 266
With soc Cone 14/23 29/32 14/23 29/32 29/32 29/32 5 Cone NS 14/23 14/23 14/23 29/32 29/32 29/32 Distilli Made of	NS 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 Distilling links Distilling links 14/23 DURAN® tubing. Durection with the built-in length. Socket NS 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/24 14/23 14/23 14/25 14/23 14/23 14/24 14/23 <td>r distillation the Effective length mm 160 250 250 250 400 S with Liebi Distilling links read GL14, with Effective length mm 160 250 250 400 S with Liebi Constant of the second S with Liebi S with Liebi</td> <td>rmometers of 55mm built-in length. Connection GL GL GL GL Olive O</td> <td>1 6.203 415 1 6.203 416 1 9.012 264 1 9.012 266 4 1 9.012 268</td> <td>9.012 266</td>	r distillation the Effective length mm 160 250 250 250 400 S with Liebi Distilling links read GL14, with Effective length mm 160 250 250 400 S with Liebi Constant of the second S with Liebi S with Liebi	rmometers of 55mm built-in length. Connection GL GL GL GL Olive O	1 6.203 415 1 6.203 416 1 9.012 264 1 9.012 266 4 1 9.012 268	9.012 266
With soc Cone 14/23 29/32 14/23 29/32 29/32 29/32 S Made of water cc of 55mn Cone NS 14/23 29/32 29/32 Distilli Made of with glas	Socket NS 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 Distilling links DURAN® tubing. DURAN® tubing. Socket NS 14/23 14/	r distillation the Effective length mm 160 250 250 250 400 S with Liebi Distilling links read GL14, with Effective length mm 160 250 250 400 S with Liebi S with Liebig corror vo sockets NS 1	rmometers of 55mm built-in length. Connection GL GL GL GL Olive O	1 6.203 415 1 6.203 416 1 9.012 264 1 9.012 266 1 9.012 268	9.012 266
With soc Cone 14/23 29/32 14/23 29/32 29/32 29/32 S Made of water cc of 55mn Cone NS 14/23 29/32 29/32 Distilli Made of with glas	Socket NS 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23 Distilling links DURAN® tubing. DURAN® tubing. Socket NS 14/23 14/	r distillation the Effective length mm 160 250 250 250 400 S with Liebi Distilling links read GL14, with Effective length mm 160 250 250 400 S with Liebi Constant of the second s	rmometers of 55mm built-in length. Connection GL GL GL GL Olive O	1 6.203 415 1 6.203 416 1 9.012 264 1 9.012 266 1 9.012 268	
With soc Cone 14/23 29/32 14/23 29/32 29/32 29/32 5 Cone NS 14/23 14/23 14/23 29/32 29/32 Distilli Made of with glas Cone	sket NS 14/23 for Socket NS 14/23 14/23 14/23 14/23 14/23 14/23 14/23 0istilling links DURAN® tubing. DURAN® tubing. DURAN® tubing. Socket NS 14/23 14/23 14/23 14/23 14/23 14/23 14/23 14/23	r distillation the Effective length mm 160 250 250 250 250 300 S with Liebi Distilling links read GL14, with Effective length mm 160 250 250 400 S with Liebi Construction 160 250 250 400 S with Liebi Effective length With Liebig corror to sockets NS 1 Effective length	rmometers of 55mm built-in length. Connection GL GL GL GL Olive O	1 6.203 415 1 6.203 416 1 9.012 264 1 9.012 266 1 9.012 268	5

6. Distillation, separation, filtration Distillation, synthesis/Components for reaction and distillation

1

Distilling links with Liebig condenser and Claisen head

With Liebig condenser and Claisen head and socket NS 14/23 for distillation thermometers, 55 mm fitting length. Available with or without vacuum receiver adapter.

Isolab

Lenz

Lenz

6.244 593

6.244 594

1



Cone	Socket	Effective length	Description	PK Cat. No.
NS	NS	mm		
14/23	14/23	160	distilling link standard	1 9.012 247
14/23	14/23	250	distilling link standard	1 9.012 248
29/32	14/23	250	distilling link standard	1 9.012 249
29/32	14/23	400	distilling link standard	1 9.012 250
14/23	14/23	160	distilling link with vakuum adapter	1 9.012 216
14/23	14/23	250	distilling link with vakuum adapter	1 9.012 217
29/32	14/23	250	distilling link with vakuum adapter	1 9.012 218
29/32	14/23	400	distilling link with vakuum adapter	1 9.012 219



9.012 276

Distilling links acc. to Claisen with vacuum receiver adapter, DURAN[®] tubing

Made of DURAN[®] tubing. According to DIN 12594. With Liebig condenser (angled 75°) and vertical Claisen head, water and vacuum connection with olives. With two sockets NS 14/23 for distillation thermometers of 55mm built-in length.

Cone	Socket	Effective length	PK Cat. No.
NS	NS	mm	
14/23	14/23	160	1 9.012 271
29/32	14/23	250	1 9.012 276 2



3 Distilling links acc. to Claisen with vacuum receiver adapter and GL thread, DURAN[®] tubing

Made of DURAN® tubing. Distilling links acc. to DIN 12594, with Liebig condenser and Claisen head, thread connections: GL 14 (water) and GL 18 (vacuum), with two sockets NS 14/23 for distillation thermometers of 55mm built-in length.

	length	РК	Cat. No.
NS	mm		
14/23	160	1	9.012 272
14/23	250	1	9.012 274
29/32	250	1	9.012 275
29/32	400	1	9.012 279

4 (Distillation adapters			NEWI
		ss 3.3. Suitable for feeding distillate from condensers s either 65 mm or 200 mm.		Isolab
Socket	inclined 105° with outer tub	be of 12 mm diameter.		
Socket	Length		PK	Cat. No.
	outlet pipe			
NS	mm			
14/23	65		1	6.244 591
29/32	65		1	6.244 592



14/23

29/32

200

200

Delivery	adapters, short	bent, DURAN [®] tubing	
Made of DU	RAN [®] tubing. With soc	ket and outlet tube angled at 105°, 12mm diameter.	Lenz
Socket	Length outlet pipe		PK Cat. No.
NS	mm		
29/32	65		1 9.012 603 5
29/32	200		1 9.012 606 6

4

Adapter, bent

29/32

29/32

6. Distillation, separation, filtration

Distillation, synthesis/Components for reaction and distillation



1 9.012 626 5

(NEU

Isolab

Lenz

6. Distillation, separation, filtration Distillation, synthesis/Components for reaction and distillation



9.012 623

1 Distillation adapters, borosilicate glass 3.3

Manufactured from borosilicate glass 3.3. Suitable for the usage of assembling with vacuum connections. Available in two shapes: straight or angled 105°.

Description	Socket	Cone	PK Cat. No.
	NS	NS	
adapters straight	14/23	14/23	1 6.243 604
adapters straight	29/32	29/32	1 4.008 370
adapters bend	14/23	14/23	1 4.008 371
adapters bend	29/32	29/32	1 4.008 372

Receiver adapter, DURAN® tubing

Made of DURAN® tubing. Acc. to DIN 12594, straight or bent (105°), with NS socket and cone, with drain tip, vacuum connection: glass olive.

Description	Socket	Cone	PK Cat. No.
	NS	NS	
adapters straight	14/23	14/23	1 9.012 611
adapters bend	14/23	14/23	1 9.012 613
adapters straight	29/32	29/32	1 9.012 621
adapters bend	29/32	29/32	1 9.012 623



9.012 621

4 Receive	r adapters	, with GL thread, DURAN [®] tubing		(NEW!)
		er adapters acc. to DIN 12594, straight or bent (and th drain tip, vacuum connection: thread GL18.	Jle: 105°),	Lenz
Description	Socket	Cone	РК	Cat. No.
adapters straight	NS	NS	1	7 930 030

	NS	NS		
adapters straight	14/23	14/23	1	7.930 030
adapters straight	29/32	29/32	1	6.900 523
adapters bend	14/23	14/23	1	9.012 607
adapters bend	29/32	29/32	1	9.012 608



5 Distilling	adapters	, Bredt type, borosilicate glass 3.3		(NEW!)
		glass 3.3. Suitable to be used in distillation assemblies ributor. Straight or bend 105° shape with vacuum connection.		Isolab
Description	Socket upper NS	Socket down NS	РК	Cat. No.
adapter straight	29/32	29/32	1	9.012 635
adapter bend	14/23	19/26	1	9.012 636

	6 Distributors for Distilling Receivers to Bredt, DURAN [®] tubing		NEWI
A CAL	Made of DURAN $^{\circ}$ tubing. With four cones NS 14/23, for round bottom flasks up to 250ml volume.		Lenz
	Cone	PK	Cat. No.
	NS		
	19/26	1	9.012 695
	29/32	1	9.012 696

6

6. Distillation, separation, filtration Distillation, synthesis/Components for reaction and distillation

4

Lenz

	<u> </u>			nauer, DURAN [®] tubing			Lenz	1
Туре			Socket	Cone		РК	Cat. No.	
			NS	NS				
Distilling R	eceivers, withou	ıt flask	14/23	14/23		1	6.210 168	
Distilling R	leceivers, withou	ıt flask	29/32	14/23		1	<u>6.236 954</u>	
Colum	ns, ground	glass joint	<mark>, Hemp</mark>	el, DURAN [®] tubing				2
Made of [DURAN® tubing	g. With packing	material s	support, ground glass cone and socket			Lenz	
Socket	Cone	Fill height			P	РК Са	it. No.	\diamond
NS	NS	mm						
14/23	14/23	300					012 321	
29/32	29/32	300					012 322 2	
29/32	29/32	800				2	012 326	0.012.322
							\sim	9.012 322
3 C	olumns acc	to Hemp	al with f	ixed vacuum jacket. DURAN®	tubing		(NEW!)	3

Made of DURAN [®] tubing. For packings like Raschig rings or glass beads, with NS s and NS cone, with fixed vacuum jacket.	ocket	0	7
			·

Columns acc. to Hempel with fixed vacuum jacket, DURAN[®] tubing

Socket NS	Cone	Fill height mm	РК	Cat. No.
14/23	14/23	200	1	6.241 715
29/32	29/32	300	1	9.012 327
29/32	29/32	500	1	9.012 328
29/32	29/32	800	1	9.012 329

4 Glass beads

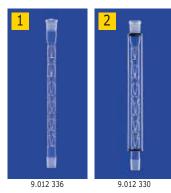
	beaus		
Type AR soda	lime glass. Supplied in packs of approx. 1kg.		Lindner
Ø		PK	Cat. No.
mm			
0,09 - 0,15		1	6.079 803
0,40 - 0,60		1	6.074 805
0,50 - 0,75		1	6.901 962
1,00 - 1,30		1	6.239 547
1,5 - 2		1	9.012 402
3		1	9.012 403
4		1	9.012 404
4,5		1	6.254 325
5		1	9.012 405
6		1	9.012 406
7		1	6.254 523
8		1	9.012 407
10		1	9.012 408
14		1	9.012 410

5 Raschig rings, glass			5
Pack of 1 kg.		Hecht	-1
Туре	РК	Cat. No.	
3x3	1	9.012 413	
4x4	1	9.012 414	
5x5	1	9.012 415	
6x6	1	9.012 416	
8x8	1	9.012 417	

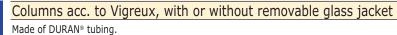


Lenz

6. Distillation, separation, filtration Distillation, synthesis/Components for reaction and distillation







Туре	NS	Effective length	PK Cat. No.
		mm	
without jacket	14/23	200	1 6.304 939
without jacket	14/23	300	1 6.900 157
without jacket	29/32	300	1 9.012 336 1
without jacket	29/32	600	1 9.012 337
with jacket	14/23	200	1 6.070 046
with jacket	14/23	300	1 6.079 073
with jacket	29/32	300	1 9.012 330 2
with jacket	29/32	600	1 7.628 209

3	Columns acc. to Vigi	reux with fixed vacuum jacket, DURAN [®] tubing.				
Made	Made of DURAN [®] tubing. With NS socket and NS cone, with fixed vacuum jacket.					
Fill heigh	NS .t	РК	Cat. No.			
mm	it.					
200	14/23	1	7.613 796			
300	14/23	1	9.012 333			
300	29/32	1	6.073 183			
600	29/32	1	6.226 643			



4	Drying tubes, PE-LD
Ren	novable stoppers at both tube ends. With tubing nozzles, 4mm to 9mm o.d.

Kartell

Length	РК	Cat. No.
mm		
100	1	9.253 131
150	1	9.253 135
200	1	9.253 140

5	1)	IL I
	-	J
U		

5 Drying tubes, U-pattern	(NEWI)
Made of borosilicate glass 3.3. DIN 12610. Drying tubes with NS incl. interchangeable ground joint stopcocks. U-shape. Hose connectors 6mm in diameter.	Isolab

Length	NS	Diam.	Description	РК	Cat. No.
mm		mm			
100	- 0	13	without stopcock	1	9.140 515
130	-	13	without stopcock	1	9.140 516
180		18	without stopcock	1	9.140 517
100	14/23	13	with stopcock	1	9.140 518
130	14/23	13	with stopcock	1	9.140 519
180	19/26	18	with stopcock	1	9.140 520



6 [Drying tubes		(NEW!)
Made of borosilicate glass 3.3. Angled to 90°.			
Length	Diam.	PK	Cat. No.
Longen			
mm	mm		
		1	9.140 513



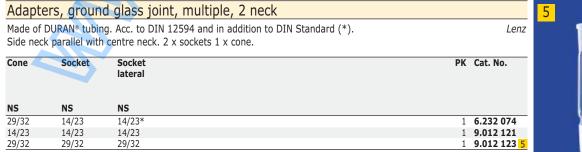
Drying tubes, DURAN [®] tubing			
Made of DURAN [®] tubing. Angled to 75°.			
Cone	۲K	Cat. No.	
NS			
14/23	1	9.012 701	
29/32	1	9.012 703 7	

9.012 703

Desiccant - please see page 993.

6. Distillation, separation, filtration Distillation, synthesis/Components for reaction and distillation

			istiliation, synthesis/ component	.5 101 1	
Multipl	le Adapter	s, 2 Necks	(VEWI	1
	·	glass 3.3. With two sockets and one con	e.	Isolab	- (36)
	k 105° upward			100100	10 MAR
					12
Cone	Socket	Socket	PK Cat.	No.	
		lateral			
NS	NS	NS			
14/23 19/26	14/23	14/23	1 6.24: 1 6.24:		
29/32	19/26 29/32	19/26 14/23	1 0.24		
29/32	29/32	29/32	1 9.14	0 503	6.243 740
					6.243 740
2 M	lultinle Ad	apters, 2 Necks			
	•	• •			
	k 105° upwaro	g. With two sockets and one cone.		Lenz	
	•				
Cone	Socket	Socket lateral	РК	Cat. No.	
		lateral			
	NC	NG			
NS 14/23	NS 14/23	NS 14/23	1 9.0	012 101	
19/26	19/26	19/26	1 6.2	232 027	
29/32 29/32	29/32 29/32	14/23 29/32		610 631 012 103	
25/52	25/52	25/52		012 105	and the second se
Multipl	le Adapter	s, 2 Necks		VEWI	3 (11)
		ass 3.3. Side neck parallel with centre ne	udu 2 v caskata 1 v cana	Isolab	TO LAS TO LAS
	borosilicate gi	ass 5.5. Side neck parallel with centre ne	ck. 2 x sockets 1 x cone.	ISUIAD	
_					
Cone	Socket	Socket lateral	PK Cat.	NO.	
NS	NS	NS			
14/23	14/23	14/23	1 6.24:	3 738	
19/26	19/26	19/26		0 504	
14/23 29/32	29/32 29/32	14/23 29/32	1 9.14	0 507 3 739 <mark>3</mark>	171
29/32	29/32	23/32	1 0.24.	3739 5	()() 700
					6.243 739
<mark>4</mark> C	hemistry S	Set	0	VEWD	4
Chemistr	rv kit contains	16 pieces of various glassware all with c	ommon 14/23 NS sizes.	Isolab	
Allows m	any micro exp	periments to be perfomed under vacuum	or atmospheric pressure.		The second second
		e with relatively low quantites of 10 - 25			AN 20-
supplied	in a sturdy ha	ard plastic box with foam inserts to prote	ct the parts.		13.3 C
Product o	descriptions of	f the set are shown as the below list.			Carl and Car
1 x filter	funnel, 1 x re	ceiver adapter - short stem, 1 x stillhead	with screwcap adapter, 1 x receiver adapter - wit		
			lask - 25 ml, 1 x seperating funnel - with PTFE key		
			- 10 ml, 1 x beaker - low form - 25 ml, 1 x liebig sure equalising funnel - 10 ml, 2 x hexagonal stop		
CONDENSE	CI, I A HAL DOL	tom hask - 10 m, 1 x keck clip, 1 x pless	bure equalising furnier - 10 IIII, 2 x hexayolidi Stop	pers.	
Descripti	on		РК	Cat. No.	
Mini volum	ne chemistry <mark>ki</mark> t		1 9.1	140 512	





9.012 123

Isolab

6. Distillation, separation, filtration Distillation, synthesis/Components for reaction and distillation

Splash head adapter, ground glass joint, borosilicate glass 3.3

Borosilicate glass 3.3. Suitable to be used in distillation assemblies to prevent raw liquid step over from flask to condenser.

Socket NS	Cone	Description	K Cat. No.
14/23	14/23	straight	1 4.008 373 1
29/32	29/32	straight	1 6.255 503
14/23	14/23	bend	1 9.140 508 2
29/32	29/32	bend	1 9.140 511



4.008 373

Splash	n heads acc. to St	tzer, straight or bent, DURAN [®] tubing	(NEW)
Two vers - straigh - bent w	DURAN [®] tubing. sions available: it, with cone and socket vith two cones at 75°. neads are directly placed	onto distillation flasks for separation of drops.	Lenz
Cone	Socket / core bent	Description	PK Cat. No.
NS	NS		
NS 14/23	NS 29/32	straight	1 6.202 459
-		straight straight	1 6.202 459 1 9.012 193 3





5 Be	ellows, PTF	-E			WEW
for length	compensatio	n of heated co	equipment; for compensating vibrations from vacuum pumps; lumns; angular misalignment. ealing rings on the outside; maximum deflection: 120°.		BO
Socket	Cone	Overall length		РК	Cat. N
Socket NS	Cone			РК	Cat. I
		length		РК	Cat. 1 9.012 1

T. ...

6. Distillation, separation, filtration Distillation, synthesis/Flat ground flange reaction vessels

Vacuum sublimation apparatus 1

Enables effective cleaning of chemicals and substances that turn from solids to vapours directly without liquidifying first and solidifying again on cooling. The cleaned sublimate can be fully recovered from the conical cooler without difficulty once the sublimation process is complete.

туре	PK	Cal. NO.	
Micro apparatus, complete, sublimate quantity 1g to 2g	1	9.305 367	
Semi-micro apparatus, complete, sublimate quantity 5g to 7g	1	9.305 368	
Macro apparatus, complete, sublimate quantity 10g to 25g	1	9.305 369	



Reaction flasks, flat flange, DURAN® 2

Flanged neck with groove for vacuum use. 500ml and 1000ml vessels are completely cylindrical. DURAN Group Capacities indicated are brim-full volumes. Glass Type I/neutral glass as per USP, EP and JP. Autoclavable.

Capacity	DN	Capacity	Flange diam.	Body diam.	Height	Pressure	РК	Cat. No.
ml		ml	mm	mm	mm	bar		
100	60	195	100	70	85	2,5*	1	9.142 024
250	60	315	100	70	125	2,5*	1	9.142 036
500	100	740	138	106	120	1,5*	1	9.142 044
1000	100	1395	138	106	205	1,5*	1	9.142 054
2000	100	2620	138	140	270	1,5*	1	9.142 063
4000	150	5765	184	200	290	1,0*	1	9.142 071
6000	150	7320	184	215	320	1,0*	1	9.142 076



Maximum permissable operating pressure measured at 250°C

3 Flat flange beakers, DURAN®

130 3 x 29/32 parallel

2 x 29/32 angled, 1 x 14/23 parallel

130

150

150

184

184

Flanged neck with groove for vacuum use. Maximum 0.5bar working pressure at 250°C. DURAN Group Capacities indicated are brim-full volumes. We recommend that these beakers are heated in water or oil baths. Glass Type I/neutral glass as per USP, EP and JP. Autoclavable.

Flange diameter: Beaker diameter:						
Capacity	DN	Capacity	Height		РК	Cat.
ml		ml	mm			
1000	120	1360	125		1	9.142
2000	120	2200	200		1	9.142
3000	120	3220	290		1	9.142



4	Flat grou	nd flang	e lids, DURAN®		4
operat			as outlined below. Centre neck NS 29/32. 1bar max. Glass Type I/neutral glass as per USP, EP and JP.	DURAN Group	
DN	Flange diam.	Height	Side necks	PK Cat. No.	
	mm	mm	NS		
100	138	125	3 x 29/32 angled	1 9.142 246	
100 100	138 138	125 105	3 x 29/32 angled 2 x 29/32 angled, 1 x 14/23 parallel	1 9.142 246 1 9.142 476	

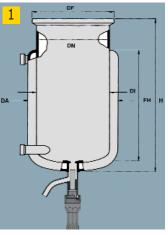
1 9.142 257

9.142 259

PK

Cat. No.

6. Distillation, separation, filtration Distillation, synthesis/Flat ground flange reaction vessels



1 Flat ground flange reaction vessels, jacketed

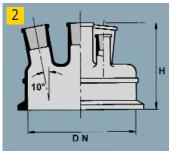
Flange with groove in accordance with DIN 12214.

Flask with thermostatic jacket and type "T" 10mm bore PTFE drain valve.

Form A = cylindrical form

B = short	t form							
Capacity	DN	Form	Widest AØ	Flange diam.	Height	Fill height	РК	Cat. No.
ml	mm		mm	mm	mm	mm		
250	100	Α	140	138	140	50	1	9.142 037
500	100	A	140	138	165	75	1	9.142 038
1000	100	A	140	138	230	140	1	9.142 039
1000	120	A	160	158	210	110	1	9.142 040
2000	120	A	160	158	300	200	1	9.142 041
3000	120	A	160	158	390	290	1	9.142 042
2000	150	A	200	184	230	130	1	9.142 043
3000	150	A	200	184	295	190	1	9.142 045
4000	150	A	200	184	355	250	1	9.142 046
5000	150	А	200	184	400	300	1	9.142 047
6000	150	A	200	184	450	350	1	9.142 048
6000	150	В	250	184	360	260	1	9.142 049
10000	150	А	200	184	675	575	1	9.142 050
10000	150	В	300	184	450	290	1	9.142 051

Further accessories and spare parts available on request.



2	Flat flange lids
2	Flat hange hus

	luc nunge	1143				
Flange ir	accordance	with DIN 12214.				
Flange DN	Centre neck	Angled side necks	Parallel side necks	Height	РК	Cat. No.
mm	NS	NS	NS	mm		
100	29/32	2 x 29/32		125	1	9.142 120
100	29/32	-	2 x 29/32	125	1	9.142 121
100	29/32	2 x 29/32	1 x 14/23	125	1	9.142 122
100	29/32	2 x 29/32	2 x 29/32	125	1	9.142 123
100	45/40	2 x 29/32		150	1	9.142 124
100	45/40	2 x 29/32	1 x 14/23	150	1	9.142 126
100	45/40	2 x 29/32	2 x 29/32	150	1	9.142 127
120	29/32	2 x 29/32	-	125	1	9.142 128
120	29/32		2 x 29/32	125	1	9.142 129
120	29/32	2 x 29/32	1 x 14/23	125	1	9.142 130
120	29/32	2 x 29/32	2 x 29/32	125	1	9.142 131
120	45/40	2 x 29/32	-	150	1	9.142 132
120	45/40	-	2 x 29/32	150	1	9.142 133
120	45/40	2 x 29/32	1 x 14/23	150	1	9.142 134
120	45/40	2 x 29/32	2 x 29/32	150	1	9.142 135
150	29/32	2 x 29/32	-	125	1	9.142 136
150	29/32	-	2 x 29/32	125	1	9.142 137
150	29/32	2 x 29/32	1 x 14/23	125	1	9.142 138
150	29/32	2 x 29/32	2 x 29/32	125	1	9.142 139
150	45/40	2 x 29/32	-	150	1	9.142 140
150	45/40	-	2 x 29/32	150	1	9.142 141
150	45/40	2 x 29/32	1 x 14/23	150	1	9.142 142
150	45/40	2 x 29/32	2 x 29/32	150	1	9.142 143

3 Reaction vessel accessories

PTFE drain valves, complete:

Model "T" (Standard for vessels with NW 100 to NW 200 flanges): PTFE, 10mm bore drain valve with no dead volume, key plug that seals on the base of the vessel, with maximum opening 35mm, self-adjusting, centring hub, visible wear indication and integral glass angled outlet.

For standard applications with liquids of different viscosity.

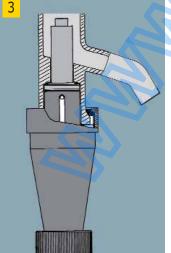
Model "H"

generally as Model "T", but with 20mm bore and max. opening 70mm. Model "H/PT 100"

generally as Model "H", but with integral Pt100 sensor to enable easy measurement of sump temperature.

Туре

Model "T" standard	1 9.142 001
Model "H" added price for execution	1 9.142 002
Model "H/Pt 100" added price for execution	1 9.142 003
Further accessories and spare parts available on request.	

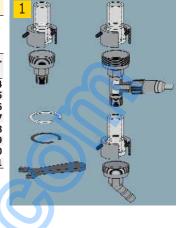


6. Distillation, separation, filtration Distillation, synthesis/Flat ground flange reaction vessels

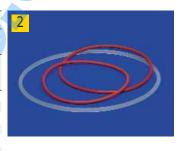
1 Tubing adapters for heating and cooling connection

For metal or standard tubing connectors with secure, quick attachment/release, using spring insert technology.

Туре	РК	Cat. No.
For DN 15, M 16 x 1 thread	1	9.142 004
For DN 15, M 24 x 1.5 thread	1	9.142 005
For DN 15, M 16 with integral Pt100	1	9.142 006
For DN 15, D11 olive-shaped connection	1	9.142 007
For DN 15, D13 olive-shaped connection	1	9.142 008
PTFE comb seal DN 15	1	9.142 009
Graphited flat seal for temperatures above +150°C	1	9.142 010
Pin spanner for DN 15 metal adapter to ensure secure mounting	1	9.142 011



2 O-rings				
VMQ silicone. With	, or without, FEP o	coating.		Lenz
Туре	For flange	Diam.	Thickness	PK Cat. No.
	DN	mm	mm	
VMQ	60	75	4	1 9.142 834
VMQ	100	110	4	1 9.142 846
VMQ	150	150	5	1 9.142 857
VMQ + FEP	60	75	4	1 9.142 866
VMQ + FEP	100	110	4	1 9.142 867
VMQ + FEP	150	150	5	1 9.142 868
VMQ + FEP	200	215	5	1 9.142 869



	~907	
Quick-acting closures		
Stainless steel. With three-part caliper clamps.		Lenz
For flange DN		PK Cat. No.
60		1 9.142 934
100		1 9.142 946 3
120		1 9.142 951
150		1 9.142 957
200		1 9.142 964



9.142 946

4

	_
4 Supporting ring	NEWI
	H.W.S.
Description PK	Cat. No.
Supporting ring DN 60 Polyester, with support DIN 1	6.229 692
Supporting ring DN 100 Polyester, with support DIN 1	6.229 695
Supporting ring DN 120 Polyester, with support DIN 1	9.011 736
Supporting ring DN 150 Polyester, with support DIN 1	9.011 735



6. Distillation, separation, filtration Distillation, synthesis/KPG stirrer and bearings



1 2 KPG	stirrer shafts	, DURAN [®]	
DURAN [®] . Intercha	angeable. Bearing s	surface ground and polished. DL	JRAN Group
WG:	4 fix	ed blades	
WS:	2 ma	ovable blade	
KPG diameter:	10m	im 📃 📃	
KPG length:	160r	mm.	
Type Leng	ith For	PK	Cat. No.
	neck		
	diam.		
r	nm mm		
WG 10 3	20 60	1	9.197 321
WG 10 3	70 60	1	9.197 322
WS 10 3	20 25	1	9.197 311
WS 10 3	70 25	1	9.197 312
WS 10 4	10 25	1	9.197 313
WS 10 4	40 25		9.197 314



<mark>3</mark>	<pg stirr<="" th=""><th>er bearings, D</th><th>OURAN®</th><th>0.0</th><th></th><th></th></pg>	er bearings, D	OURAN®	0.0		
		earing surface ground cone		S.	DU	RAN Group
Туре	Cone	Diam.	Height		PK	Cat. No.
	NS	mm	mm			
HA 10	no	10	65		1	9.197 251
HB 10	no	10	75		1	9.197 252
HB 16	no	16	90		1	9.197 257
HQ 10	yes	10	75		1	9.197 253
HT 10	yes	10	65		1	9.197 256
HT 16	yes	16	85		1	9.197 258



Stirrer with stirrer adapter, DURAN [®] tubing	
Made of DURAN [®] tubing. For round bottom flasks 250 to 2000ml. Stirrer shaft, with PTFE stirrer blade and fixing screw. Seals vacuum stir gas-tight to 10^{-3} mbar up to a permanent load of 800rpm.	ring apparatus
Туре	PK Cat. No.
Stirrer with Stirrer Bearing, complete	1 9.198 050 4
Shaft, Dia. 10 x L 400mm	1 6.802 957
Blade, PTFE, 70x24x3mm	1 6.204 794
Screw, PTFE	1 6.204 795
Sealing, PTFE	1 7.616 277
Closure, thread GL 25, cone NS 29/32	1 6.258 683
Pressure spring, stainless steel	1 6.258 684
Screw cap GL 25, PP	1 6.258 685

|--|



5 St	irrer bearings with cooling jacket, DURAN [®] tubing		(NEW!)
	URAN® tubing. Stirrer bearings with NS cone and cooling water connections 14), bearing surface ground and polished.		Lenz
Cone	For diam.	РК	Cat. No.
cone	stirring rod	FK	cat. No.
NS	mm		
29/32	10	1	6.234 956
45/40	16	1	6.234 957



Stirrer be	arings w	ith GL male thre	ead, DURAN	® tubing
	als used: PI	FFE (bearing), silicone	(gasket) and s	irrer guides, GL male thread.
	/32. Guide I	bore 10mm i.d.		
Neck thread	Cone	Ø	Overall	PK Cat. No.
Neck thread	Cone	Ø agitator shaft	Overall length	PK Cat. No.
Neck thread	Cone NS	~		PK Cat. No.
		agitator shaft	length	PK Cat. No. 1 9.197 355 6
	NS	agitator shaft mm	length mm	

www.wenk-labtec.com

1000

29/32

6.0

20

6. Distillation, separation, filtration Distillation, synthesis/KPG stirrer and bearings-Dropping Funnels

Stirrer Bearings, PTFE 1 1 The sealing rings on these bearings ensure a perfect sealing. The ground joint no longer sticks, BOLA the danger of breaking is reduced and the cone can be removed easily from the socket. A special gasket made of PTFE and an FPM o-ring which is compressed by a GL screw cap provide a good sealing of the stirrer shaft. This gasket can be exchanged after wearing. Suitable for vacuum, perfect bearing for stainless steel, glass and BOLA Stirrer Shafts. Cone For diam. Overall Neck thread PK Cat. No. stirring rod length NS mm mm GL 29/32 29/32 72 74 18 25 6.087 538 6 1 6.076 532 8 1 29/32 25 6.088 058 10 72 1 NEW! 2 2 Stirrer bearings with dynamic double seal Stirrer bearings for applications under vacuum or under slight overpressure. Lenz With extended guidance for reduced vibrations and a longer lifetime. Material: borosilicate glass 3.3 (closure), PTFE (sealings) For diam. NS PK Cat. No. 29 417 97 359 97 363 97 364

borosilica	icate glas	ss 3.3 , cylindrical shape, with or witho	vithout pressure equalizing tub	,	Isolat
Capacity ml	NS	Туре		PK	Cat. No.
50	19/26	with relief tube		1	9.140 415
100	19/26	with relief tube		1	4.008 428 3
250	29/32	with relief tube		1	6.240 982
500	29/32	with relief tube		1	6.240 983
1000	29/32	with relief tube		1	9.140 416
50	19/26	without with relief tube		1	9.140 410
100	19/26	without with relief tube		1	9.140 411
250	29/32	without with relief tube		1	9.140 412
500	29/32	without with relief tube		1	9.140 413
1000	29/32	without with relief tube		1	9.140 414



3

Droppi	ng funnels	s, cylindrical,	with pro	essure equalis	sing tube, borosilicate glass	3.3	4
With NS With grad Two type	socket and inf duations for re s available: ilid glass key		stopper, plu	ure equalising tub ig with retaining d e.		Lenz	
Capacity	NS	Bore	Grad.	Keys	PK	Cat. No.	
ml		mm	ml				
25	14/23	2.5	1	solid	1	6.072 172	9
50	14/23	2.5	1	solid	1	9.012 755	
50	29/32	2.5	1	solid	1	9.012 767	E
100	14/23	2.5	2	solid	1	9.012 756	5
100	29/32	2.5	2	solid	1	9.012 768	
250	14/23	4.0	5	solid	1	9.012 757	
250	29/32	4.0	5	solid	1	9.012 769 <mark>4</mark>	
500	29/32	4.0	10	solid	1	9.012 770	
1000	29/32	6.0	20	solid	1	7.601 147	
25	14/23	2.5	1	PTFE	1	9.012 751	
50	14/23	2.5	1	PTFE	1	9.012 752	
50	29/32	2.5	1	PTFE	1	6.223 427	
100	14/23	2.5	2	PTFE	1	9.012 753	
100	29/32	2.5	2	PTFE	1	6.900 312	
250	29/32	4.0	5	PTFE	1	9.012 764 <mark>5</mark>	
500	29/32	4.0	10	PTFE	1	9.012 765	



stirring rod		M	
mm			
10	29/32	1 7.	62
10	45/40	1 9.1	19
16	29/32	1 9.1	19
16	45/40	1 9.1	19

Droppir	ng funnels	, cylindrical,	with p	ressure equalising tub	e, borosilicate glass	3.3	
				sure equalising tube.		Len	
With NS socket and interchangeable PE stopper, plug with retaining device. With graduations for reading of the approx, volume.							
5		ading of the appro	ox. volum	ie.			
	available: id glass key						
- With PTI							
when it is	L KCy						
Capacity	NS	Bore	Grad.	Keys	PK	Cat. No.	
ml		mm	ml				
25	14/23	2.5	1	solid	1	6.072 172	
50	14/23	2.5	1	solid	1	9.012 755	
50	29/32	2.5	1	solid	1	9.012 767	
100	14/23	2.5	2	solid	1	9.012 756	
100	29/32	2.5	2	solid	1	9.012 768	
250	14/23	4.0	5	solid	1	9.012 757	
250	29/32	4.0	5	solid	1	9.012 769	
500	29/32	4.0	10	solid	1	9.012 770	
1000	29/32	6.0	20	solid	1	7.601 147	
25	14/23	2.5	1	PTFE	1	9.012 751	
20							

PTFE

1 9.012 766 9.012 764

591

6. Distillation, separation, filtration Distillation, synthesis/Reflux condenser

1

9.012 471

2

3



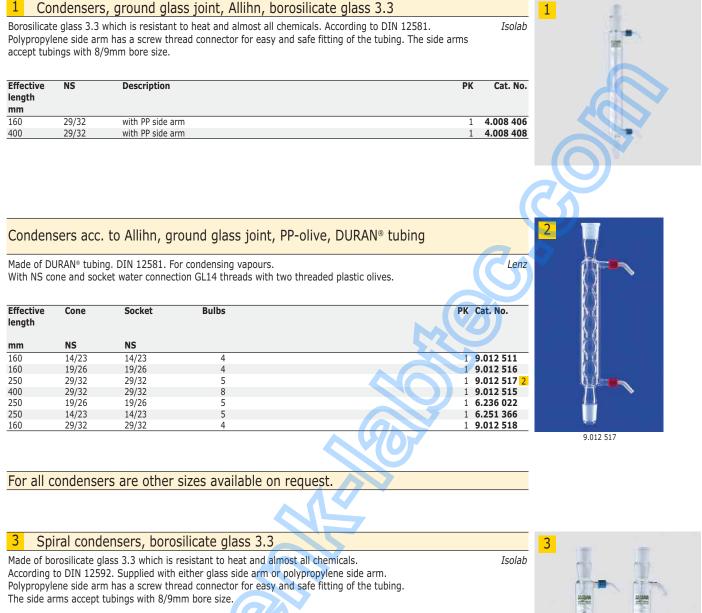
Effective length	Cone	Socket	РК	Cat. No.
mm	NS	NS		
160	14/23	14/23	1	9.012 507
250	14/23	14/23	1	9.012 509
250	29/32	29/32	1	6.253 331
400	14/23	14/23	1	9.012 510
400	29/32	29/32	1	6.243 669



ڬ Extraction apparatus - please see page 1149.

6. Distillation, separation, filtration

Distillation, synthesis/Reflux condenser



Effective length	NS	Description	PK Cat. No.
mm			
160	14/23	with glass side arm	1 9.012 548
250	29/32	with glass side arm	1 6.257 821
400	29/32	with glass side arm	1 4.008 411
160	14/23	with PP side arm	1 4.008 412
250	29/32	with PP side arm	1 6.257 820
400	29/32	with PP side arm	1 4.008 414



Spiral	condense	rs, PP-oliv	ve, DURAN [®] tubing	4	
			g condensates. Water connections with glass olives or	Lenz	\Box
GL14 thr	eads with two	o threaded pl	astic olives.		tir I
Effective	Cone	Socket	Connection	PK Cat. No.	
length					
mm <	NS	NS			
160	14/23	14/23	GL14	1 9.012 522	2
400	29/32	29/32	GL14	1 6.225 557	
250	29/32	29/32	GL14	1 9.012 523 4	
500	29/32	29/32	GL14	1 9.012 524	m.

9.012 523

6. Distillation, separation, filtration Distillation, synthesis/Reflux condenser

Effective

3

4

length



Coil condensers, DURAN® tubing

Cone

Socket

Made of DURAN® tubing. DIN 12593. With jacketed cooling coil. Water connection with glass olives or GL14 thread , with two threaded, plastic olives.

Connection

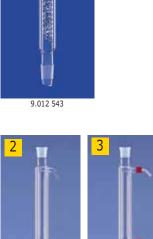
Condensers acc. to Davies, DURAN[®] tubing

Lenz

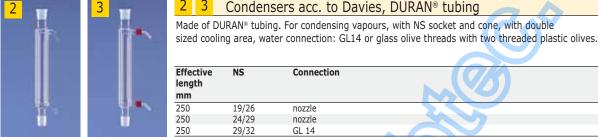
NEWI

Lenz

PK Cat. No.



mm	NS	NS			
160	29/32	29/32	glas		1 7.635 816
250	29/32	29/32	glas		1 6.227 832
400	29/32	29/32	glas		1 6.240 342
500	29/32	29/32	glas		1 7.970 241
160	14/23	14/23	GL14		1 6.900 522
160	29/32	29/32	GL14		1 9.012 542
250	29/32	29/32	GL14		1 9.012 543 1
400	29/32	29/32	GL14		1 9.012 544



ffective ength nm	NS	Connection	РК	Cat. No.
50	19/26	nozzle	1	6.800 239
50	24/29	nozzle	1	6.228 159
50	29/32	GL 14	1	6.803 017





4 Cor	Idenser	rs, ground glass	s joint, Liebig, borosilicate glass 3.3				
Made of borosilicate glass 3.3 which is resistant to heat and almost all chemicals. According to DIN 12576. Isolab							
/ //	Polypropylene side arm has a screw thread connector for easy and safe fitting of the tubing. The side arms accept tubings with 8/9mm bore size.						
The slue at	nis accept	L LUDINGS WILL 6/ 91111	ii bore size.				
Effective	NS	Description	PK	Cat. No.			

Effective length	NS	Description	РК	Cat. No.
-				
mm				
250	29/32	with PP side arm	1	9.012 546
400	29/32	with PP side arm	1	4.008 405
250	29/32	with glass side arm	1	7.970 278
400	29/32	with glass side arm	1	6.236 239
160	14/23	with glass side arm	1	9.012 535
250	14/23	with glass side arm	1	9.012 536
400	14/23	with glass side arm	1	9.012 537
	14/23		1	

Condensers acc. to Liebig, ground glass joint, DURAN [®] tubing	
Made of DURAN [®] tubing. DIN 12576 and in addition to DIN standard (*).	Lenz
With NS cone and socket. Water connection: glass olives or GL14 threads with two threaded plastic olives.	

Effective length	Socket	Cone	Ext. diam.	Int. diam.	Connection	PK Cat. No.
mm	NS	NS	mm	mm		
160	14/23	14/23	20	12	GL	1 9.012 502
160	19/26	19/26	24	16	GL	1 9.012 501
250	29/32	29/32	24	16	GL	1 9.012 505 5
400	29/32	29/32	24	16	GL	1 9.012 506

6 Keck adapters KA 14

Glass fibre reinforced thermoplastic polyester (PBT).

Melting point 225°C. Temperature and chemically resistant. For quick, secure, tight connection of tubing with glass screwthreads and ferrules.

For Colour PK Cat. No. Glass ferrule GL 14 complete 9,208 931 yellow 1 Glass ferrule RD 14 complete 9.208 941 red 1 Glass screwthread GL 14 9.208 930 yellow 1 Glass screwthread RD 14 9.208 940 red 1

6. Distillation, separation, filtration Distillation, synthesis/Distillation-Accessories

1	Air look rod				
	Air leak rod,				
With bi	ulb (Diameter: 6r	nm, Wall thic	kness: 1.5mm).		
Length	Diam.		РК	Cat. No.	
mm	mm		1	0 012 202	
180	4		1	9.012 302	
Gas i	nlet tubes, s	traight, g	round glass joint, DURAN [®] tubing		2
			leak tubes, built-in length: 200mm, with NS cone	Lenz	
	n capillary (easily			LCIIL	
		, ,	,		
Cone	Diam.	Length	PK Ca	it. No.	
	Diam	Longen			
NS	mm	mm		CA	
14/23 29/32	6 8	200 200		012 301 <mark>2</mark> 239 812	
25/52		200			
					(4.)
					9.012 301
Gas i	nlet tubes, b	ent, DUR	AN® tubing		3 /15-200
Made o	of DURAN [®] tubing	. Bent air lea	< tubes (angle: 90°), built-in length: 250mm,	Lenz	
			y to draw by burner).		U
					Y Y
Cone	Diam.	Length	РК Са	it. No.	
NS	mm	mm		010 000 0	
14/23 29/32	6 8	250 250		012 303 <mark>3</mark> 012 305	
		200			
					U
				_	9.012 303
4 (Gas inlet tub	e with va	ve stopcock, DURAN [®] tubing	NEWI	4
			topcock for dosing, with glass olive (angle: 90°),	Lenz	
			top of the joint: approx. 150mm.	LCHZ	The sea
	, , ,	j.			
NS			РК	Cat. No.	4
NO			r K	cat. No.	
14/23			1	6.200 985	
					n-0
					1 m
5	Air regulator	Type HM	-2		5
For tub					
	o 15mm diamete	r, 6mm to 12	5mm diameter		
For air-	leak capillary tub	bes. Acts as a	fine regulation valve (needle valve).		
Plastic	body. Brass need	lle with fine t	nread.		The second second
Туре			РК	Cat. No.	Stars 1977
HM-2			1	9.194 011	
			1	9.194 011	/
6	Boiling stone	s, Type A			6
			k. For distillation and reflux in aqueous, neutral and alkaline solvents,		
			en the smallest volumes of liquid and after multiple interruptions.		The second states
	ts any bumping.				AND AND AND
		·			· · · · · · · · · · · · · · · · · · ·
Capacit	v		PK	Cat. No.	な出現な近代が
g					STATISTICS AND
250			1	9.012 306	
			E & OE.		595
			www.wonk lahtaa.aam		500

6. Distillation, separation, filtration

Distillation, synthesis/Distillation-Accessories



Isolab

Lenz

Isolab

1

1 Separating funnels, Squibb-pattern, borosilicate glass 3.3

Supplied with PTFE stopcock, graduated or ungraduated. According to DIN 12452. With PP conical stopper.

With PP co	onical stopp	er.			
Capacity	NS	Description	Bore	РК	Cat. No.
ml			mm		
50	19/26	ungraduated	2.5	1	4.008 422
.00	19/26	ungraduated	2.5	1	6.241 670
250	29/32	ungraduated	4.0	1	6.238 526
500	29/32	ungraduated	4.0	1	6.238 527
1000	29/32	ungraduated	6.0	1	6.241 669
000	29/32	ungraduated	6.0	1	6.241 668
50	19/26	graduated	2.5	1	6.236 317
100	19/26	graduated	2.5	1	6.236 318
250	29/32	graduated	4.0	1	6.236 319
500	29/32	graduated	4.0	1	6.236 320
1000	29/32	graduated	6.0	1	6.236 321
2000	29/32	graduated	6.0	1	6.240 412

Separating funnels acc. to Squibb, borosilicate glass 3.3

With PTFE plug. Available with or without graduations to read the approximate volume. With PE-stopper and PTFE plug .

Capacity	Socket	Description	Bore	РК	Cat. No.
ml	NS		mm		
50	19/26	ungraduated	2.5	1	9.203 322
100	19/26	ungraduated	2.5	1	9.203 323
250	29/32	ungraduated	4.0	1	9.203 325
500	29/32	ungraduated	4.0	1	9.203 328
1000	29/32	ungraduated	6.0	1	9.203 330
2000	29/32	ungraduated	6.0	1	9.203 332
50	19/26	graduated	2.5	1	9.203 372
100	19/26	graduated	2.5	1	9.203 373
250	29/32	graduated	4.0	1	9.203 375 2
500	29/32	graduated	4.0	1	9.203 376
1000	29/32	graduated	6.0	1	9.203 377
2000	29/32	graduated	6.0	1	9.203 378



Separating funnels, conical, borosilicate glass 3.3

Supplied with PTFE stopcock, graduated or ungraduated. According to DIN 12451. With PP conical stopper.

WILLI PP CC	nical stopp	ei.		
Capacity	NS	Description	Bore	PK Cat. No.
ml			mm	
50	19/26	ungraduated 🦯	2.5	1 4.008 423
100	19/26	ungraduated	2.5	1 4.008 424
250	29/32	ungraduated	4.0	1 6.242 395
500	29/32	ungraduated	4.0	1 4.008 425
1000	29/32	ungraduated	6.0	1 6.242 694
2000	29/32	ungraduated	6.0	1 4.008 426
50	19/26	graduated	2.5	1 4.008 427
100	19/26	graduated	2.5	1 6.241 980
250	29/32	graduated	4.0	1 6.241 671
500	29/32	graduated	4.0	1 6.241 981
1000	29/32	graduated	6.0	1 6.244 011 3
2000	29/32	graduated	6.0	1 6.242 394





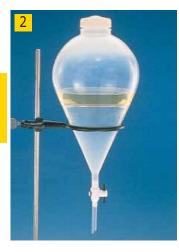
Lenz



Separating funnels, conical, borosilicate glass 3.3

Conical pattern. With glass stopcock, PTFE key and retaining device. Available with or without, graduations to read the approximate volume. With PP conical stopper.

Capacity	NS	Description	Bore	PK Cat. No.
ml			mm	
50	19/26	ungraduated	2.5	1 9.203 462
100	19/26	ungraduated	2.5	1 9.203 463
250	29/32	ungraduated	4.0	1 9.203 465
500	29/32	ungraduated	4.0	1 9.203 466
1000	29/32	ungraduated	6.0	1 9.203 467
2000	29/32	ungraduated	6.0	1 9.203 468
50	19/26	graduated	2.5	1 9.203 482
100	19/26	graduated	2.5	1 9.203 483
250	29/32	graduated	4.0	1 9.203 485
500	29/32	graduated	4.0	1 9.203 486 1
1000	29/32	graduated	6.0	1 9.203 487
2000	29/32	graduated	6.0	1 9.203 488



2 Separating funnels with screw cap, Type 4301, FEP

Transparent. Teflon® FEP, Tefzel® ETFE stopcock and ETFE screw cap. Impact resistant. Thermo Scientific Non-wetting surfaces ensure no liquid residue adhesion. Chemically stable. Length of stem under stopcock 65mm. Autoclavable.

Туре	Capacity	Screw cap diam.	PK	Cat. No.
	ml			
	ml	mm		
4301	125	28	1	9.203 531
4301	250	33	i	9.203 532
4301	500	43	1	9.203 533
4301	1000	53	1	9.203 534
4301	2000	53	1	9.203 535
Teflon® and	d Tefzel® are regist	ered trademark of Du	Pont.	
	-			



Separating funnel holder PP 3

Manufactured from best quality polypropylene. Suitable to hold all types of laboratory Isolab funnels and also separatory funnels with diameter up to 150mm. Two tapered wedges are provided to ensure firm grip.

Description	РК	Cat. No.
Separating funnel holder	1	9.251 559



4 Water estimator to Dean Stark, borosilicate glass 3.3		NEWI
Manufactured from borosilicate glass 3.3 according to DIN 12420. Suitable for xylol method. System completed with 500 ml (NS 29/32) flask + Liebig condenser with jacket length 400 mm + measuring tube (10:0.1 ml) with PTFE stopcock.		Isolab
Description	PK	Cat. No.
Water estimator to Dean Stark	1	9.303 005

Support rings - please see page 168.

For complete distillation systems, please see page 1154.

(NEW!) Extractors acc. to Knöfler-Böhm, DURAN® tubing 1 The condensate passes the extraction sample and flows back into the flask continuously Lenz without interrupting the extraction process, i.e. the solvent is recirculated continuously. The complete apparatus consists of: Jacketed extractor head made of DURAN® tubing, Dimroth condenser with thread GL 14, made of DURAN® tubing, Round bottom flask material: DURAN® Extractor Condenser Round bottom flasks PK Cat. No. Capacity ml NS ml 30 6.237 313 29/32 100 1 45/40 6.237 312 150 250 1 45/40500 9.043 010 250 1 9.043 020 60/46 1000 500 2 Soxhlet extractors, without stopcock 2 Borosilicate glass 3.3 which is resistant to heat and almost all chemicals. According to DIN 12602. Isolab The side arms accept tubings with 8/9mm bore size. Capacity Cone Socket PK Cat. No. ml NS NS 30 29/32 29/32 4.008 417 1 70 29/32 34/35 4.008 418 100 29/32 45/40 4.008 419 45/40 150 29/32 4.008 420 250 29/32 45/404.008 421 1 500 45/40 29/32 6.243 673

Complete serial extraction systems - please see page 1149.

Extraction thimbles - please see page 1147.

Soxhlet Extraction stillheads

Soxhlet Extraction stillheads, made of DURAN® tubing. Extractor heads acc. to DIN 12602 and in addition to DIN standard.

For extractor	Cone	Socket	PK Cat. No.	1
ml	NS	NS		
30	29/32	29/32	1 9.043 011	
70	29/32	34/35	1 9.043 012	
100	29/32	45/40	1 9.043 013 3	
150	29/32	45/40	1 9.043 014	
200	29/32	45/40	1 9.043 018	
250	29/32	45/40	1 9.043 015	1
300	29/32	60/46	1 9.043 019	
500	29/32	60/46	1 9.043 016	
1000	29/32	71/51	1 9.043 017	9.04

Accessories for E	4	5				
Extractor heads for the extraction of liquids with specific light solvents, with insert filter Lenz (porosity: 0), made of DURAN [®] tubing.						
Distribution tubes with frit (porosity: 0), for specific light solvents, made of DURAN® tubing. Type Extractor Condenser				PK Cat. No.	1	
	ml	NS			- H	
Extractor Head	100	45/40		1 6.801 962 4		ويللو
Extractor Head	250	45/40		1 6.258 695		197
Extractor Head	500	60/46		1 6.902 445		
Distribution Tube	100	-		1 6.258 692	6.801 962	6.902 444
Distribution Tube	250	-		1 6.258 693		
Distribution Tube	500	-		1 6.902 444 5		

Complete extraction systems - please see page 1148.



600

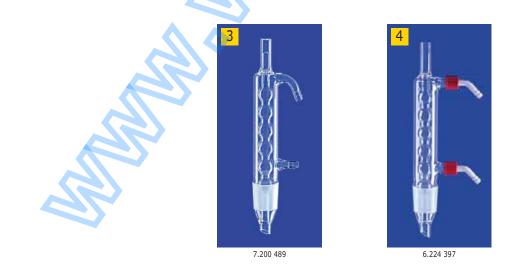
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1 Dir	nroth condensers for extractors	(NEWI	1
	nsing vapours, with NS cone, water connection: glass olive	es,	Lenz	
made of D	URAN® tubing.			
Cone	Volume	РК	Cat. No.	
NS	ml			
29/32	30	1 6	.204 562	
34/35	70	1 6	.207 176	
45/40	100 - 250		.085 191	
60/46	300 - 500		.604 610	
71/51	1000	1 6	.266 984	
) 7 7	
2 Alli	ihn condensers for Soxhlet	6	NEWI	2
Manufactu	red from borosilicate glass 3.3 with glass side arm.		Isolab	1100
The side ar	rms accept tubings with 8/9 mm bore size.		100100	loten
The side di				
For	Cone	РК	Cat. No.	14
bottle				N. 1
ml	NS			
30	29/32		.012 540	1000
70	34/35		.012 541	
100/250	45/40	1 6	.254 106	
				Y

Condensers, Allihn for Extractors

Made of DURAN® tubing. DIN 12581. For condensing vapours. With cone, water connection with nozzle or GL 14 thread and two threaded plastic tubing nozzles.

Extractor	Cone	Effective length	Connection	PK Cat. No.
ml	NS	mm		
30	29/32	160	Olive	1 6.204 890
100-250	45/40	250	Olive	1 7.200 489 3
30	29/32	160	GL 14	1 6.242 774
100-250	45/40	250	GL 14	1 6.224 397 <mark>4</mark>



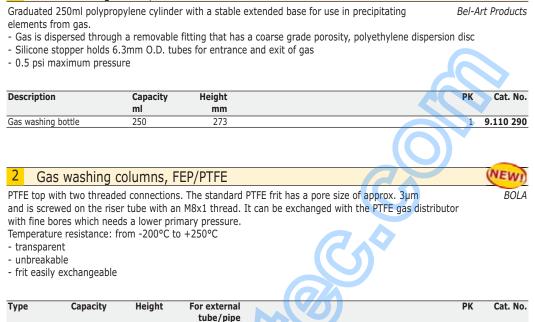
Lenz

6. Distillation, separation, filtration

Distillation, synthesis/Gas wash bottles



Gas washing bottle, PP 1

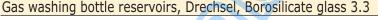


туре	Capacity	Height	tube/pipe	MC	РК	Cat. No.
	ml	mm	mm			
Column	500	400	8		1	9.110 306
Column	1000	700	8		1	9.110 308









In accordance with Drechsel. Ground joint 29/32. DIN 12463. Flask height 200 mm, Rettberg working height 250 mm.

Description	NS	Capacity	Porosity	PK Cat. No.
		ml		
Gas washing bottle reservoirs	29/32	100	-	1 9.110 473 <mark>3</mark>
Gas washing bottle reservoirs	29/32	250	-	1 9.110 474
Gas washing bottle reservoirs	29/32	500	-	1 6.240 962
Gas washing bottle head, without frit disk	29/32		-	1 6.240 963
Gas washing bottle head, with frit disk	29/32		1	1 9.110 472 <mark>4</mark>

(NEW! 5 Gas wash bottle reservoirs, Drechsel, borosilicate glass 3.3 According to DIN 12596. Manufactured from borosilicate glass 3.3 which is resistant to heat

and almost all chemicals. Bottle heads are supplied with or without sintered glass support (porosity 0) which enables efficient gas dispensing.

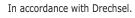
Isolab

Bottle and selected head should be ordered seperately.

Description	NS	Capacity	Porosity	РК	Cat. No.
		ml			
Gas wash bottle reservoirs	29/32	125	-	1	9.140 530
Gas wash bottle reservoirs	29/32	250	-	1	9.140 531
Gas wash bottle reservoirs	29/32	500	-	1	9.140 532
Gas wash bottle head, without frit disk,	29/32		-	1	4.008 376
with glass-olive					
Gas wash bottle head, without frit disk, with PP side-olive	29/32		-	1	9.140 533
Gas wash bottle head, with frit disk, with glass side-olive	29/32		0	1	9.140 534
Gas wash bottle head, with frit disk, with PP side-olive	29/32		0	1	9.140 535

6	Gas wash	bottle	reservoirs.	borosilicate	alass 3.3
					9.0.00 0.0

NEW



Capacity	Diam.	Height	РК	Cat. No.
ml	mm	mm		
100	40	200	1	9.110 190
250	54	200	1	6.237 076
500	75	200	1	9.110 191
1000	110	200	1	9.110 192



6. Distillation, separation, filtration

Distillation, synthesis/Gas wash bottles



7 Bubble counter DURAN®.			7	N	
Height mm	РК	Cat. No.			
mm				1981	
100	1	9.014 100			

(NEW)

PK Cat. No.

9.140 536

9.140 537

9.140 538

9.140 539 1

NEW

PK

1

1

Lenz

Cat. No.

7.622 815

7.626 118

Isolab

6.073 246

9.011 765

6.079 832

9.011 760

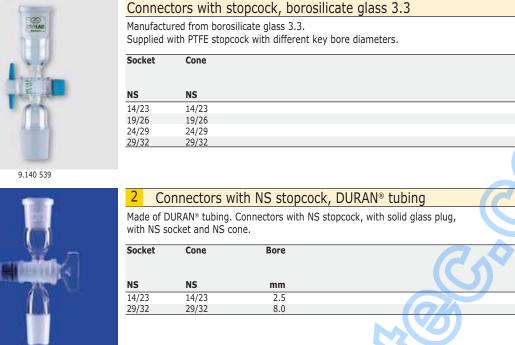
Isolab

Cat. No.

1

Isolab

6. Distillation, separation, filtration Distillation, synthesis/Tubing adapters





1

2





29/32

29/32

34/35

45/40

7

Seal material: NBR

24/29

45/40

29/32

29/32

12257

12257

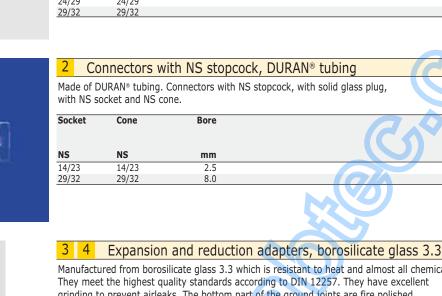
12257

12257

Adapter for thermometer, borosilicate glass 3.3

Manufactured from borosilicate glass 3.3 according to DIN 12257 standard, ideal to use

for thermometers with Ø 6 - 8 mm. Screw joint provides easy depth adjustment of thermometer.



Manufactured from borosilicate glass 3.3 which is resistant to heat and almost all chemicals. They meet the highest quality standards according to DIN 12257. They have excellent grinding to prevent airleaks. The bottom part of the ground joints are fire polished.

Socket	Cone	РК	Cat. No.
NS	NS		
14/23	19/26	1	6.243 581
14/23	24/29	1	6.243 582
14/23	29/32	1	9.011 740
19/26	14/23	1	4.008 341
19/26	24/29	1	4.008 342
19/26	29/32	1	4.008 343
19/26	34/35	1	6.243 583
24/29	29/32	1	6.241 533
24/29	34/35	1	6.243 584
24/29	45/40	1	6.243 585
29/32	14/23	1	6.235 966
29/32	19/26	1	4.008 344
29/32	24/29	1	4.008 345
29/32	34/35	1	6.243 586

Expan	ision and re	duction ada	pters, DURAN [®] tubing		(NEW!)
Made of DURAN® tubing. DIN 12257 and in addition to DIN standard (*). Reduction and expansion adapters with ground joint.					
Socket	Cone	DIN		PK	Cat. No.
NS	NS				
14/23	29/32	12257		1	9.011 755 5
19/26	14/23	12257		1	9.011 766
29/32	14/23	12257		1	9.011 750 <mark>6</mark>
29/32	19/26	12257		1	9.011 767



Neck thread Cone Adapter PK bore diam. GL NS mm 4.008 360 14 14/23 6 - 8 1 14 29/32 6 - 8 6.244 589

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6. Distillation, separation, filtration Distillation, synthesis/Tubing adapters

Isolab

1

Threaded tube connectors, borosilicate glass 3.3 1

Borosilicate glass 3.3 according to DIN 12257 standard.

Neck thread	Cone	РК	Cat. No
GL	NS		
14	14/23	1	4.008 355
14	29/32	1	4.008 358
18	14/23	1	4.008 356
18	29/32	1	4.008 357
25	29/32	1	6.241 693

	ilicate glass 3		apes: straight or 90° angled.		Isolab	2	1000	1
Description	Socket	Diam.	N	РК	Cat. No.			
straight	14/23	Olive 8 mm		1	9.012 184			
straight	29/32	Olive 10 mm		1	9.012 185		1.1	
bend	14/32	Olive 8 mm		1	9.012 186			12
bend	29/32	Olive 10 mm		1	9.012 187		田	
straight with PTFE stopcock	14/32	Olive 8 mm		1	9.012 188			
straight with PTFE stopcock	29/32	Olive 10 mm		1	9.012 189			
bend with PTFE stopcock	14/32	Olive 8 mm		1	9.012 190			
bend with PTFE stopcock	29/32	Olive 10 mm		1	9.012 191			
			NAVOL					

Cone: flexible tubing adapter

			cone to 10mm bore tubing connector. Straight or angled (90°). olug, bore 2.5mm.		Lenz	
Cone	Form	Stopcock		РК	Cat. No.	
NS 14/23	atraight	with		1	9.012 316	
14/23	straight straight	without		-	9.012 316	
14/23	bent	with			9.012 312	
14/23	bent	without		-	9.012 311	
29/32	straight	with			9.012 319 3	
29/32	straight	without			9.012 314	
29/32	bent	with		1	9.012 317	
29/32	bent	without		1	9.012 313 4	



5 A	dapter for t	ubing, borosilicate glass 3.3		(NEW!)	5
Supplied	with PTFE stop	silicate glass 3.3 in two different forms, straight or 90° angled. cock which has of 2.5mm diameter bore key. le for up to 10mm tubings.		Isolab	
Cone	Form	Stopcock	РК	Cat. No.	
NS 14/23	straight	with	1	4.008 365	
14/23	bent	with	1	4.008 367	
14/23	bent	without	1	4.008 362	
29/32	straight	with	1	4.008 366	
29/32	straight	without	1	4.008 361	
29/32	bent	with	1	4.008 369	



6. Distillation, separation, filtration Distillation, synthesis/Tubing adapters



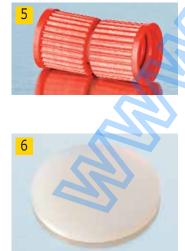
9.209 517





9.011 771





Threaded tube connectors, DURAN® tubing

Made of DURAN® tubing. DIN 12257 and in addition to DIN standard. Double ended. With GL thread and NS cone.

Lenz

Neck thread	Cone	PK Cat. No.
GL	NS	
14	14/23	1 9.209 514
14	29/32	1 9.209 517 1
18	14/23	1 9.209 518
18	29/32	1 9.209 529
25	14/23	1 6.300 168
25	29/32	1 9.209 559
32	24/29	1 9.209 581
32	29/32	1 9.209 582

Adapters NS cone to spherical joint socket, DURAN[®] tubing 2 Made of DURAN® tubing. Adapters from ground joint cone to spherical joint socket.

Cone	Socket	РК	Cat. No.
	NS		
NS			
14/23	19	1	9.011 768
29/32	19	1	9.011 769
29/32	29	1	6.900 648

Adapters NS socket to spherical joint ball, DURAN[®] tubing Made of DURAN® tubing. Adapters from spherical joint ball to ground joint socket. NEW! Lenz

(NEW!)

Lenz

Socket	Socket/Ball	РК	Cat. No.
NS			
14/23	19	1	9.011 770
29/32	29	1	9.011 771 3

Red. PBT. Wit 180°C.	h central hole (diameter outlined below). Temperature resistand	ce to max. De	JRAN Group
Neck thread	Bore	PK	Cat. No
GL	mm		
14	9.5	1	9.209 11
18	11.0	1	9.209 11
25 32	15.0	1	9.209 12
32	20.0	1	9.209 13
45	34.0	1	9,209 13

5 Screwthread couplings, PBT

DIN screwthread. For flexible connection of two glass screwthreads. With integral PTFE-faced silicone (VMQ) seals. Temperature resistant to max. 180°C.

DURAN Group

Neck thread	РК	Cat. No.
GL		
14	1	9.209 004
18	1	9.209 005

6 Silicone cap wads/septa, VMQ

For GL-screwthread caps. Overall diameter and wad thickness as outlined below. DURAN Group Thermical resistance: 130°C (steam)/200°C (heat). Autoclavable.

For thread size	Diam.	Thickness	РК	Cat. No.
GL	mm	mm		
14	12	2	1	9.209 414
18	16	2	1	9.209 418
25	22	2	1	9.209 425
32	29	2	1	9.209 432
45	42	3	1	9.209 435

606

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6. Distillation, separation, filtration Distillation, synthesis/Tubing adapters

DURAN Group

1

Silicone sealing rings, VMQ 1

With vulcanized PTFE sleeve. For screwthread caps. Thermical resistance: 130°C (steam), 200°C (heat). Autoclavable.

For thread	Int. diam.	Ext. diam.	For tubes diam.	РК	Cat. No.
size	ululii	ululii			
GL	mm	mm	mm		
14	6	12	5.5 to 6.5	1	9.209 146
18	6	16	5.5 to 6.5	1	9.209 186
18	8	16	7.5 to 9.0	1	9.209 188
18	10	16	9.0 to 11.0	1	9.209 190
25	8	22	7.5 to 9.0	1	9.209 258
25	10	22	9.0 to 11.0	1	9.209 260
25	12	22	11.0 to 13.0	1	9.209 262
32	10	29	9.0 to 11.0	1	9.209 320
32	12	29	11.0 to 13.0	1	9.209 322
32	14	29	13.0 to 15.0	1	9.209 324
32	16	29	15.0 to 17.0	1	9.209 326
32	18	29	17.0 to 19.0	1	9.209 327
45	26	42	25.0 to 27.0	1	9.209 329
45	32	42	31.0 to 33.0	1	9,209 331

2 Plast	ic ferrule	, angled, PP			
Temperature		aps GL 14. With silicone seal (VMQ). to max. +140°C. Autoclavable.		DU	RAN Group
Diam.	Neck			PK	Cat. No.
	diam.				
mm	mm				
8.6	4			1	9.051 308



3 GL screwthread ferrules

							5
	tics, for tubing connect e of PPS reinforced with	2		els available, screw connector errules made of PFA,		BOLA	A
	le PFA sealing rim and th PFA (or PTFE - GL25	5	Vhen in use, the	contents only comes into			E
Туре	Neck thread	Ext.	Int.		РК	Cat. No.	

Туре	Neck thread	Ext.	Int.		РК	Cat. No.
		diam.	diam.			
	GL	mm	mm			
Straight 35 mm	14	8.7	6.00	7	1	9.051 320
Straight 39 mm	18	10.5	7.00		1	9.051 321
Angled 40 mm	14	8.7	6.00		1	9.051 324
Angled 54 mm	18	10.5	7.00		1	9.051 325





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Isolab

6. Distillation, separation, filtration Distillation, synthesis/standard ground stoppers



1	toppers, PP		
			Isolal
NS	P	ĸ	Cat. No
10/19		1	4.008 495
12/21		1	4.008 496
14/23		1	4.008 497
19/26		1	4.008 498
24/29		1	4.008 499
29/32		1	4.008 50



2 Stoppers, hollow , PE		
Fits standard conical joints. Supplied singly.		
NS	PK	Cat. No.
7/16		9.230 107
10/19		9.230 110
12/21	1	9.230 112
14/23		9.230 114
19/26	1	9.230 119
24/29	1	9.230 124
29/32	1	9.230 129
45/40		9.230 145
60/46	1	9.230 160



3 Conical stoppers, PE

Polyethylene. Stoppers manufactured to DIN standard 12242 ensuring an effective seal, even on non-standard surfaces.

NS	Bottom	Colour	РК	Cat. No.
	diam.			
	mm			
7/16	5.9	violet	1	9.230 161
10/19	8.1	blue	1	9.230 162
12/21	10.4	green	1	9.230 163
14/23	12.2	brown	1	9.230 164
19/26	16.4	yellow	1	9.230 165
24/29	21.1	red	1	9.230 166
29/32	25.8	black	1	9.230 167
34/35	30.9	white	1	9.230 168



4

NS-Glass stoppers, hollow borosilicate glass 3.3

Manufactured from borosilicate glass 3.3 which is resistant to heat and almost all chemicals. They meet the highest quality standards according to DIN 12252.

Lower closed end of stopper features a "drip-tip" to ensure adhered liquid is returned to the flask.

Hexagonal flat head prevents the stopper from rolling and allows stopper to be stood on end preventing contamination of the ground surface.

NS	Description	РК	Cat. No.
10/19	clear	1	7.900 483
12/21	clear	1	6.242 396
14/23	clear	1	9.229 990
19/26	clear	1	9.229 991
24/29	clear	1	6.240 333
29/32	clear	1	9.229 992
34/35	clear	1	6.240 060
10/19	amber	1	7.900 484
12/21	amber	1	6.258 416
14/23	amber	1	7.900 486
19/26	amber	1	7.970 573
24/29	amber	1	6.258 415
29/32	amber	1	7.629 440
34/35	amber	1	6.258 417

6. Distillation, separation, filtration Distillation, synthesis/standard ground stoppers-NS joints accessories

1 2 NS-Glass stoppers, DURAN[®], SWB and Borosilicate glass

DIN 12252. Hollow stoppers, hexagonal plate, pointed or flat bottom and stoppers, octagonal plate, solid or semi-hollow.



NS	Material	Stopper NS	Form	Figure	РК	Cat. No.
7/16	Borosilicate glass 3.3	hollow	hexagonal	а	1	9.230 002
10/19	Borosilicate glass 3.3	hollow	hexagonal	а	1	9.230 003
12/21	Borosilicate glass 3.3	hollow	hexagonal	а	1	9.230 004
14/23	Borosilicate glass 3.3	hollow	hexagonal	а	1	9.230 006
19/26	Borosilicate glass 3.3	hollow	hexagonal	а	1	9.230 007
29/32	Borosilicate glass 3.3	hollow	hexagonal	а	1	9.230 009
45/40	Borosilicate glass 3.3	hollow	hexagonal	а	1	9.230 012
10/19	DURAN®	solid	octagonal	b	 1	9.230 053
12/21	DURAN®	solid	octagonal	b	1	9.230 054
14/23	SBW	solid	octagonal	b	1	9.230 056
19/26	SBW	solid	octagonal	b	1	9.230 057
24/29	SBW	solid	octagonal	b	1	9.230 058
29/32	SBW	semi solid	octagonal	b	1	9.230 059
34/35	DURAN®	semi solid	octagonal	b	1	9.230 061
45/40	DURAN®	semi solid	octagonal	b	1	9.230 062

3 Clips for joints, POM

	red from POM and has excellent chem I strength. They are perfect tools to jo		Isolab
NS	Colour	к	Cat. No.
10/19	black	1	4.008 347
12/21	purple	1	4.008 348
14/23	yellow	1	4.008 349
19/26	blue	1	4.008 350
24/29	green	1	4.008 351
29/32	red	1	4.008 352
34/35	orange	1	4.008 353
45/40	brown	1	4.008 354



4 Co	nical joint of	clips for joints, POM, connections, plastic		4
	ing point 175°C chemical resista	C. For conical ground joints. Ince. Rigid.		
NS	Colour	РК	Cat. No.	
10/19	green	1	9.011 773	
12/21	violet	1	9.011 774	
14/23	yellow	1	9.011 775	(
19/26	blue	1	9.011 776	
24/29	green	1	9.011 777	
29/32	red	1	9.011 778	0
34/35	orange	1	9.011 779	1
40/42	yellow	1	9.011 780	
45/40	brown	1	9.011 781	



5 Spherical joint clips, plastic

POM. Melting point 175°C. For spherical ground joints.		
Excellent chemical resistance. Rigid.		
NS	PK	Cat. No.
13	1	9.011 793
19	1	9.011 794
29	1	9.011 795
35	1	9.011 796



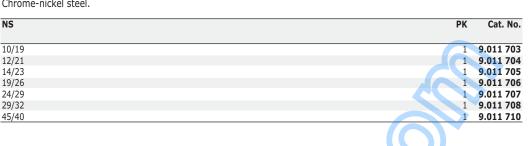
Clipox

6. Distillation, separation, filtration Distillation, synthesis/NS joints accessories



1 Ground joint clips for sleeve connections, wire, Chrome-nickel steel

Chrome-nickel steel.







Clipox[®] Clips for NS ground glass joints 2 3

Clipox® Clips are safe, universal clips for NS conical ground glass joints. Available to secure NS conical ground glass joints including stopcocks, vacuum-stopcocks and reagent bottles with glass stoppers.

Clipox[®] simplifies the daily laboratory work and increases the safety of glassware.

- Easy to mount and to remove due to two-sided handles
- To be used with stand clamps

- Secures horizontal and vertical in case of pressure overload
- Longevity of suspension and shape due to spring steel wire
- Outstanding thermal, chemical and acid resistance
- Material: high grade stainless steel, V4A (1.4568)
- Made in Germany, production certified according to ISO 9001 Pack of 5 pieces.

Joint size NS	РК	Cat. No.
10	5	9.011 400
12	5	9.011 401
14	5	9.011 402
19	5	9.011 403
24	5	9.011 404
29	5	9.011 405
34	5	9.011 406
40	5	9.011 407
45	5	9.011 408
60	5	9.011 409



4 Joint clips for conical joint sleeve connections

Chrome-nickel steel. For tapered ground joints as outlined below. With, or without, locking screw.

10			
NS	Туре	PK	Cat. No.
14/23	with locking screw	1	9.011 675
19/26	with locking screw	1	9.011 676
24/29	with locking screw	1	9.011 677
29/32	with locking screw	1	9.011 678
45/40	with locking screw	1	9.011 680
14/23	without locking screw	1	9.011 685
19/26	without locking screw	1	9.011 686
24/29	without locking screw	1	9.011 687
29/32	without locking screw	1	9.011 688
45/40	without locking screw	1	9.011 690

5 PTFE sealing rings for jointed glassware

An effective alternative to common PTFE joint sleeves and PTFE stoppers.

- Air leakage <10 $^{\rm s}$ to 10 $^{\rm o}$ mBar l/s (vacuum and pressure).
- Solvent leakage from containers < 0.1 to 0.03mg/day.

- Temperature range: -196 to 300°C

NS	PK	Cat. No.
10	50	9.011 663
12	50	7.622 596
14	50	9.011 664
19 24	50	9.011 665
24	50	9.011 666
29	50	9.011 667
29 34	50	7.700 004
45	50	9.011 668

5

6. Distillation, separation, filtration Distillation, synthesis/NS joints accessories

BRAND

Sleeves, PTFE, disposable 1

Seals without grease - no grease residues are left in the analysis. Excellent chemical resistance. Can be used in temperatures from -200 to +260°C. Wall thickness only 0.05mm. Wide range of applications, also suitable for vacuums down to 0.1mbar, e.g. for rotary evaporators.

NS	РК	Cat. No.
7/16	1	9.011 316
10/19	1	9.011 317
12/21	1	9.011 318
14/23	1	9.011 319
19/26	1	9.011 320
24/29	1	9.011 321
29/32	1	9.011 322
34/35	1	9.011 323
40/38	1	9.011 330
45/40	1	9.011 324
50/42	1	9.011 325
55/44	1	9.011 326
60/46	1	9.011 327



2 Sleeves with ribs, PTFE			2	
For use with ground glass joints. Suitable for vac The sealing ribs grip on the inside wall of the gla and enabling the cone to be freed easily when re	ss socket, sealing without the need for grease	BOLA		
NS		PK Cat. No.		
12/21		1 9.011 653		
14/23		1 9.011 655		
19/26		1 9.011 656		
24/29		1 9.011 657		
29/32		1 9.011 658		
45/40		1 9.011 660	provide the second	

With knurled gripping ring at the top of the cone for easy removal. For gas, liquid and vacuum-tight cone joint connections with sizes as outlined below. Reusable. BOLA With reinforced external ribs for a high-vacuum tight seal (leakage rate: < 1x10 ⁻⁴ mbar x I x s ⁻¹). No No joint sealant or grease required. PK Cat. No. 14/23 1 9.011 642 19/26 1 9.011 643 24/29 1 9.011 643 29/32 1 9.011 645 45/40 1 9.011 647	3 Sleeves, cone j	oint, PTFE			3
14/23 1 9.011 642 19/26 1 9.011 643 24/29 1 9.011 644 29/32 1 9.011 645	vacuum-tight cone joint con With reinforced external rib	nections with sizes as outlined below. Reusable. s for a high-vacuum tight seal (leakage rate: < 1x10⁴ mbar x I x s	ⁱ).	BOLA	
1 9.011 643 24/29 1 9.011 644 29/32 1 9.011 644 1 9.011 645	NS		РК	Cat. No.	
24/29 1 9.011 644 29/32 1 9.011 645	14/23		1	9.011 642	
29/32 1 9.011 645	19/26		1	9.011 643	
1 9.011 645	24/29		1	9.011 644	
1 9.011 647			1	9.011 645	
	15/40		1	9.011 647	



4

4 Sealing tape, PTFE

For covering areas which require protection against chemicals of all types at temperatures of -150 to +260°C. Non-swelling. Easy loosening of seams even after continuous operation. Supplied in rolls as outlined below.

idth	Length	Wall thickness	РК
nm	cm	mm	
12.8	670	0.1	1
24.0	670	0.1	1
-			

5 Baysilone [®] silicone high vacuum grease			5
For use up to 10° mbar50 to +200°C. Supplied in 35g tube.			
Туре	РК	Cat. No.	
Low viscosity	1	9.116 902	
Medium viscosity	1	9.116 903	1010
High viscosity	1	9.116 904	



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9.209 714 6

9.209 718

9.209 725

9.209 732

9.209 735

1

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6. Distillation, separation, filtration

Distillation, synthesis/NS joints accessories-Ground joints, attachable



GL

14

18

25

32

45

mm

12

16

22

28

40

mm

100

100

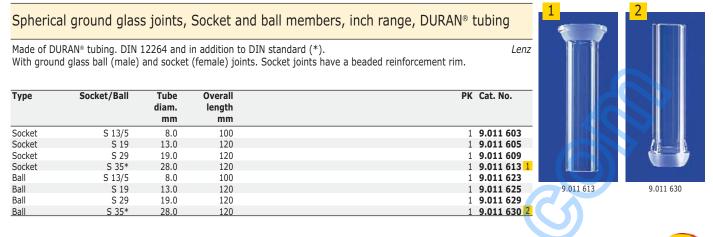
100

140

180*

6

6. Distillation, separation, filtration Distillation, synthesis/Ground joints, attachable-Stopcocks and Valves



6 Sockets/Cones with NS joint, DURAN[®] tubing

Made of DURAN® tubing. DIN 12249 and in addition to DIN standard (*). Annealed edges. Joint rims slightly rounded. Other sizes on request.

(NEW) Lenz

Description	NS	Ext. diam.	Length	GR	PK Cat. No.
		mm	mm		
Socket	5/13	8	120		1 9.011 521
Socket	14/23	17	130		1 9.011 525
Socket	19/26	22	130		1 9.011 526
Socket	19/38*	22	120		1 7.606 907
Socket	29/32*	32	210		1 6.303 190
Socket	29/32	33	130		1 9.011 528
Socket	40/38*	44	130		1 6.202 446
Socket	45/40*	48	280		1 6.303 189
Socket	45/40	50	145		1 9.011 530
Socket	71/51	75	165		1 9.011 532
Socket	85/55	90	185		1 9.011 533
Cone	5/20*	4	115		1 6.070 542
Cone	10/30*	8	115		1 6.222 104
Cone	12/21	11	130		1 9.011 504
Cone	12/21	11	130 🔺		1 6.072 920
Cone	14/35*	13	140		1 6.900 898
Cone	14/23	13	130		1 9.011 505
Cone	19/26*	17	120		1 6.072 150
Cone	19/38*	17	140		1 7.606 908
Cone	19/26	17	130		1 9.011 506
Cone	29/32	26	130		1 9.011 508
Cone	29/42*	26	140		1 6.203 538
Cone	34/45*	30	140		1 6.401 432
Cone	40/38*	36	145		1 6.202 386
Cone	45/40	40	145		1 9.011 510
Cone	50/42*	46	145		1 7.630 287
Cone	55/44*	50	145		1 7.630 288
Cone	60/46*	54	160		1 6.073 068
Cone with outlet	14/23	13	130		1 9.011 545
Cone with outlet		26			1 9.011 548
Cone with outlet	3	26	130		



3-way stopcocks, T-bore, borosilicate glass 3.3

Acc. to DIN 12554 and in addition to DIN standard, T-bore, with solid glass plug or PTFE plug and screw thread retaining device. Material: borosilicate glass 3.3, leakage rate to DIN 12540-1.

Description	Stopcock type	Bore	PK Cat. No.
	NS	mm	
Solid Glass Key	14,5	1.5	1 9.116 011 7
Solid Glass Key	14,5	2.5	1 9.116 012
Solid Glass Key	18,8	2.5	1 9.116 013
Solid Glass Key	18,8	4.0	1 9.116 014
Solid Glass Key*	24,0	4.0	1 9.116 015
Solid Glass Key*	29,2	6.0	1 9.116 017

* with rubber ring retaining device

Lenz

9.116 011

<mark>1</mark>	Stope	cocks, stra	aight bor	e with solid glass	plug, borosilicate glass 3.3	NEWI
9.115 611				standard. With solid gla to DIN 12540-1.	ass plug and retaining device.	Lenz
Description	NS	Bore	DIN	Material		PK Cat. No.
		mm				
th solid glass key	12.5	1.5	12541-1			1 9.115 611 1
th solid glass key	12.5	2.5				1 9.115 642
th solid glass key	14.5	2.5	12541-1			1 6.079 648
th solid glass key	14.5	4.0				1 9.115 614
th solid glass key	18.8	4.0	12541-1			1 9.115 644
th solid glass key	18.8	6.0				1 9.115 615
th solid glass key	24*	8.0				1 9.115 618
are key, solid glass	12.5	1.5		SBW		1 7.018 947
are key, solid glass	12.5	2.5		SBW		1 7.018 936
are key, solid glass	14.5	2.5		SBW		1 7.018 948
are key, solid glass	14.5	4.0		SBW		1 6.093 232
are key, solid glass	24	8.0		DURAN [®]		1 7.657 852
are key, solid glass	29.2	10.0				1 6.266 986
2	2	Vacuum st	topcocks	, glass, Vendura-	Nova	
	stopcod flow m Availab Leak ra Temper with sa	k body, PTFE:	needle with or 90° angl mbar x l/s nt to	n sealing ring and FKM (ble seal. Comprises of glass O-rings. Fine control gives precise	DURAN Group
	Туре		Tube I diam.	Flow rate		PK Cat. No

.,	diama a		
	diam.		
	mm ml / min.		
straight	9.0 0 to 2.5	1	9.117 002
straight	10.0 0 to 4.0	1	9.117 003
straight	10.0 0 to 6.0	1	9.117 004
90° angle	9.0 0 to 2.5	1	9.117 012
90° angle	10.0 0 to 4.0	1	9.117 013
90° angle	10.0 0 to 6.0	1	9.117 014



³ One-way stopcocks, straight bore, with PTFE plug, borosilicate glass 3.3

Lenz

NEW

Acc. to DIN 12541-1 and in addition to DIN standard, with PTFE plug and screwthread retaining device, one straight bore, material: borosilicate glass 3.3, leakage rate acc. to DIN 12540-1.

Description	NS	Bore	DIN	Material	PK	Cat. No.
	12.5	mm	DIN 12541 1			0.115.601
With PTFE key	12.5	1.5	DIN 12541-1		1	9.115 631
With PTFE key	12.5	2.5			1	6.070 033
With PTFE key	14.5	2.5	DIN 12541-1		1	9.115 648
With PTFE key	14.5	4.0			1	9.115 634
With PTFE key	18.8	4.0	DIN 12541-1		1	9.115 635
With PTFE key	18.8	6.0			1	6.222 868
With PTFE key	21.5	6.0	DIN 12541-1		1	9.115 637
With PTFE key	24	8.0			1	9.115 638
With PTFE key 🧹	29.2	10.0	DIN 12541-1		1	9.115 639
With PTFE key	12.5*	1.5	DIN 12541-1		1	9.115 632
With PTFE key	14.5*	2.5	DIN 12541-1		1	9.115 633
Spare key	12.5	1.5		PTFE	1	7.072 146
Spare key	12.5	2.5		PTFE	1	6.306 550
Spare key	14.5	2.5		PTFE	1	6.801 361
Spare key	14.5	4.0		PTFE	1	6.306 551
Spare key	18.8	4.0		PTFE	1	7.018 955
Spare key	18.8	6.0		PTFE	1	7.630 235
Spare key	21.5	6.0		PTFE	1	7.603 864
Spare key	24	8.0		PTFE	1	7.657 006
Spare key	29.2	10.0		PTFE	1	6.266 985

* with capillary side arms.

Rotary Evaporator Rotavapor® R-300

The rotary evaporator R-300 meets the highest needs in convenience, productivity and versatility. The rotation speed, heating temperature and lift position is shown digitally on the heating bath.

BÜCHI

NEW

NEW

Lift System

Option 1: Manual lift Option 2: Electronic lift

Heating Bath

Option 1: B-301. Temperature range of 20°C to 95°C (water). Max. evaporating flasks size: 1000mL (3kg). Cordless connection. Digital display of set and actual temperature, rotation speed, lift position. Lock of heating temperature. Fast heat up time. **Option 2: B-305.** Temperature range of 20°C to 220°C. Max. evaporating flasks size: 5000mL (3kg). Cordless connection. Digital display of set and actual temperature, rotation speed, lift position. Lock of heating temperature.

Standard Joint

SJ 29/32

Glass Assembly

Option V: Vertical condenser (V): Vertical condenser used along with a recirculating chiller or tab water. **Option C: Cold trap (C):** Cold trap used for low boiling solvents along with e.g. dry ice for cooling. Other glass assembly configuration on request

Protective Coating

Option: Transparent PLASTIC+GLAS (P+G) safety coating. Protect against mechanical damage. In the event of breakage there is no loss of sample.

1 Rotavapor[®] R-300 with heating bath B-301

	·			~907		BÜCHI
Туре	Lift	Capacitor	Coating		РК	Cat. No.
R-300	manually	vertical	no		1	6.267 887
R-300	electric	vertical	yes		1	6.267 888
R-300	electric	cold trap	yes		1	6.267 889

2 Rotavapor[®] R-300 with heating bath B-305

					BÜCHI
Туре	Lift	Capacitor	Coating	РК	Cat. No.
R-300	manually	vertical	no	1	6.267 890
R-300	electric	vertical	yes	1	6.267 891
R-300	electric	cold trap	ves	1	6.267 892



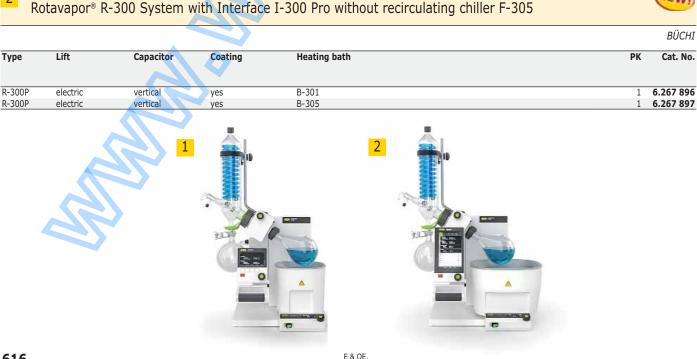
NEW

NEW

Rotary Evaporator Rotavapor® R-300 Configuration Every Rotary Evaporator Rotavapor® R-300 will be delivered with a transparent BÜCHI PLASTIC+GLAS (P+G) safety coating, a vertical glass assembly (V), NS29/32, and a vacuum pump V-300. Interface, heating bath and recirculating chiller could be chosen from below options. Interface Option S: I-300, with VacuBox, Woulff bottle. Operation by navigation knob and function keys. Wide range of operating modes (manual, timer, solvent library, automatic distillation, drying). Compatible with BUCHI Rotavapor App for mobile push notifications and remote monitoring. Option P: I-300 Pro, with VacuBox, Woulff bottle. Operation by touch screen or navigation knob. Wide range of operating modes (methods, manual, timer, solvent library, automatic distillation, drying). Charting and recording possibilities (on SD card). Compatible with BUCHI Rotavapor App for mobile push notifications and remote monitoring (including charting). Vacuum pump V-300 (1.8m³/h, 5mbar) is a chemically resistant PTFE diaphragm vacuum pump with transparent front panel to observe the membrane for highest distillation efficiency. Final vacuum: 5 mbar (±2 mbar). Suction capacity: 1.8 m³/h. Speed-controlled operation. **Recirculating chiller F-305** Ecological recirculating chiller. Cooling capacity: 550 W at 15°C. Temperature range: - 10°C to +25°C. Rotation knob for set temperature in steps of 0.1°C. Lock of cooling temperature. In combination with Interfaces I-300/I-300 Pro: Temperature setting/monitoring via interface, energy-saving eco-mode and automatic ON/OFF. **Heating Bath** Option 1: B-301. Temperature range of 20°C to 95°C (water). Max. evaporating flasks size: 1000 mL (3 kg). Cordless connection. Digital display of set and

actual temperature, rotation speed, lift position. Lock of heating temperature. Fast heat up time. **Option 2: B-305.** Temperature range of 20°C to 220°C. Max. evaporating flasks size: 5000 mL (3 kg). Cordless connection. Digital display of set and actual temperature, rotation speed, lift position. Lock of heating temperature.

Rotavapor [®] R-300 System with Interface I-300 without recirculating chiller F-305						(LIVI)
						BÜCHI
Туре	Lift	Capacitor	Coating	Heating bath	PK	Cat. No.
R-300S	manually	vertical	yes	B-301	1	6.267 893
R-300S	electric	vertical	yes	B-301	1	6.267 894
R-300S	electric	vertical	yes	B-305	1	6.267 895
				5)		



1

6. Distillation, separation, filtration

Rotary evaporators/Instruments

	BÜCHI						
	Cat. No.	РК	Heating bath	Coating	Capacitor	Lift	Гуре
	6.267 898	1	B-301	yes	vertical	electric	R-3005
	6.267 899	1	B-305	yes	vertical	electric	R-300S
$(\mathbf{O})^{\mathbf{v}}$							
2	NEWI		face I-300 Pro		R-300 Syste		
2	BÜCHI		face I-300 Pro				
	BÜCHI Cat. No.	РК	rface I-300 Pro Heating bath				а
2		РК		F-305	Ilating chiller	nd recircu	

Rotary Evaporator Rotavapor® R-100

The Rotavapor® R-100 is a high-quality rotary evaporator to meet the essential needs in classical laboratory applications. It is capable of a manually adjusting the rotation speed from 20 to 280 rpm and is equipped with an action jack lift for manual lifting of the evaporating flask.

Heating Bath B-100

Temperature range of 20°C to 95°C. Max. evaporating flask size: 4000mL (3kg). Digital display of set and actual temperature (alternating).

Standard Joint

SJ 29/32

Glass Assembly

Option V: Vertical condenser (V): Vertical condenser used along with a recirculating chiller or tab water. Option C: Cold trap (C): Cold trap used for low boiling solvents along with e.g. dry ice for cooling.

Protective Coating Option 1: Without coating

Option 2: Transparent PLASTIC+GLAS (P+G) safety coating. Protect against mechanical damage. In the event of breakage there is no loss of sample.

3	Rotavapor [®] R	-100 with vertical glass	s assembly	NEWI
Heati	ing bath B-100, mai	nual lift.		BÜCHI
Туре	Capacitor	Coating	РК	Cat. No.
R-100	vertical	no	1	6.268 002
R-100	vertical	yes	1	6.268 003





BÜCHI

The Rotavaport R-100 can be completed to a rotary evaporator system including a vacuum pump, interface and recirculating chiller. F-105 are ON/OFF regulated by the Interface I-100. Heating bath, glass assembly and coating are similar to the Rotavaport R-100. BÜCHI The Vacuum Pump V-100 and Recirculating Chiller F-105 are ON/OFF regulated by the Interface I-100. Heating bath, glass assembly and coating are similar to the Rotavaport R-100. BUCHI Vertical of Vacuum Pump V-100 and Recirculating Chiller F-105. Suction capacity: 1.5 m³/h. ON/OFF regulation. Recirculating Chiller Options F-105. Ecological recirculating chiller. Cooling capacity: 300 W at 10°C. Fix temperature: ange: -10°C to +25°C. Rotation knob for set temperature in steps of 1°C. In combination with Interface I-100: ON/OFF regulation. BÜCHI Vertical no wards are included by the interface I-100, vacuum pump V-100. BÜCHI Vigo varial wards of vacuum Pump V-100, vacuum pump V-100. BÜCHI Vertical vertic	1		-
Vector Coality PK Cell No. Retary evaporator System Rotavapor* R-100 0.2268 005 Retary evaporator System Rotavapor* R-100 0.2268 005 The Rotavapor* R-100 can be completed to a rotary evaporator system including a vacuum pump, interface and recirculating chiller. BOCHT The Rotavapor* R-100 can be completed to a rotary evaporator system including a vacuum pump, interface and recirculating chiller. BOCHT Total with North Completed to a rotary evaporator system including a vacuum pump, interface and recirculating chiller. BOCHT Total with North Completed to a rotary evaporator system including a vacuum pump, interface and recirculating chiller. BOCHT Total with North Completed to a rotary evaporator system including a vacuum pump, interface and recirculating chiller. BOCHT Total with North Completed to a rotary evaporator system including a vacuum pump, interface and recirculating chiller. BOCHT Total with North Completed to a rotary evaporator system including a vacuum pump, interface 1:00. NOPF regulation. BOCHT North Total School and excirculating chiller. Coling capacity: 500 with Completer rotage: 10°C to +25°C. Rotation knob for set temperature in steps of 1°C. In combination with Interface 1:100. VACUPF regulation. BOCHT Vector Costaria PK Cat. No. Casta 007 North Total witrinid	Rotavapor [®] R-100 with cold trap		NEW!
1100 cold rang no 1 6.268 004 1100 cold rang no 1 6.268 005 Notice cold rang no 1 6.268 005 Notice cold rang no 1 6.268 005 Notice colspan="2">Notice colspan="2"Noticolspan="2"Noticolspan="2"Noticolspan="2"No	Heating bath B-100, manual lift.		BÜCHI
N=10 cold top yes 0.2689.005 Rotary evaporator System Rotavapor® R-100 Rotary evaporator System Rotavapor® R-100 BUCHI The Rotavapor® R-100 can be completed to a rotary evaporator system including a vacuum pump, interface and recirculating chiller. The Vacuum Pump V-100 and Recirculating Chiller F-105. BUCHI Theraface Interface Interface Interface Interface Interface L:100, with Woulf bottle. Operation by function lays. Two operating modes (manual, timer), display of set and actual pressure. W/V/V/V/V/V/V/V/V/V/V/V/V/V/V/V/V/V/V/V	Type Capacitor Coating	PK	Cat. No.
Rotary evaporator System Rotavapor* R-100 BÜCHI Re Rotavapor* R-100 can be completed to a rotary evaporator system including a vacuum pump, interface and recirculating chiller BÜCHI The Rotavapor* R-100. BÜCHI The Katum Pump V-100 and Recirculating Chiller F-105 are DN/OFF regulated by the Interface I-100. Heating bath, glass assembly BÜCHI Victor Sold and Recirculating Chiller F-105. BUCHI Victor Ecological recirculating chiller. Cooling capacity: 300 W at 19°C. Fix temperature: 10°C. Option: F-105. Ecological recirculating chiller. Cooling capacity: 300 W at 19°C. Fix temperature: 10°C to +25°C. Rotation knob for set temperature Networks Retavapor* R-100 system configuration BÜCHI Victor Cooling capacity: 300 W at 19°C. Fix temperature: 70°C to +25°C. Rotation knob for set temperature BÜCHI Networks Retavapor* R-100 system configuration BÜCHI Netical pare Networkset pare 6.268 00			
The Rotavaport R-100 can be completed to a rotary evaporator system including a vacuum pump, interface and recirculating chiller. F-105 are ON/OFF regulated by the Interface I-100. Heating bath, glass assembly and coating are similar to the Rotavaport R-100. BÜCHI The Vacuum Pump V-100 and Recirculating Chiller F-105 are ON/OFF regulated by the Interface I-100. Heating bath, glass assembly and coating are similar to the Rotavaport R-100. BUCHI Vertical of Vacuum Pump V-100 and Recirculating Chiller F-105. Suction capacity: 1.5 m³/h. ON/OFF regulation. Recirculating Chiller Options F-105. Ecological recirculating chiller. Cooling capacity: 300 W at 10°C. Fix temperature: ange: -10°C to +25°C. Rotation knob for set temperature in steps of 1°C. In combination with Interface I-100: ON/OFF regulation. BÜCHI Vertical no wards are included by the interface I-100, vacuum pump V-100. BÜCHI Vigo varial wards of vacuum Pump V-100, vacuum pump V-100. BÜCHI Vertical vertic	K-100 Cold trap yes		0.200 005
The Rotavaport R-100 can be completed to a rotary evaporator system including a vacuum pump, interface and recirculating chiller. F-105 are ON/OFF regulated by the Interface I-100. Heating bath, glass assembly and coating are similar to the Rotavaport R-100. BÜCHI The Vacuum Pump V-100 and Recirculating Chiller F-105 are ON/OFF regulated by the Interface I-100. Heating bath, glass assembly and coating are similar to the Rotavaport R-100. BUCHI Vertical of Vacuum Pump V-100 and Recirculating Chiller F-105. Suction capacity: 1.5 m³/h. ON/OFF regulation. Recirculating Chiller Options F-105. Ecological recirculating chiller. Cooling capacity: 300 W at 10°C. Fix temperature: ange: -10°C to +25°C. Rotation knob for set temperature in steps of 1°C. In combination with Interface I-100: ON/OFF regulation. BÜCHI Vertical no wards are included by the interface I-100, vacuum pump V-100. BÜCHI Vigo varial wards of vacuum Pump V-100, vacuum pump V-100. BÜCHI Vertical vertic			
The Vacuum Pump V-100 and Recirculating Chiller F-105 are ON/OFF regulated by the Interface T-100. Heating bath, glass assembly and coating are similar to the Rotavapor* R-100. Interface 1-100, with Woulff bottle. Operation by function keys. Two operating modes (manual, timer), display of set and actual pressure. ON/OFF regulation of Vacuum Pump V-100 and Recirculating Chiller F-105. Vacuum Pump V-100 is a chemically resistant PTFE diaphragm vacuum pump. Final vacuum: 10 mbar (±2 mbar). Suction capacity: 1.5 m³/h. ON/OFF regulation. Recirculating Chiller Option: F-105. Ecological recirculating chiller. Cooling capacity: 300 W at 10°C. Fix temperature: 10°C. Option: F-105. Ecological recirculating chiller. Cooling capacity: 500 W at 15°C. Temperature range: -10°C to +25°C. Rotation knob for set temperature in steps of 1°C. In combination with Interface I-100. Vacuum pump V-100. View Capacitor Coating PK Cat. No. Notavapor® R-100 system configuration I 6.256 006 I 6.256 006 Notavapor® R-100 system configuration with recirculating chiller F-105. IIII Excertion Notavapor® R-100 system configuration with recirculating chiller F-105 IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Rotary evaporator System Rotavapor® R-100		
and coating are similar to the Rotavapor [®] R-100. Interface 1-100, with Woulff bottle. Operation by function keys. Two operating modes (manual, timer), display of set and actual pressure. WOVOFF regulation of Vacuum Pump V-100 and Recirculating Chiller F-105. Vacuum Pump V-101 is a chemically resistant PTFE diaphragm vacuum pump. Final vacuum: 10 mbar (±2 mbar). Suction capacity: 1.5 m³/h. ON/OFF regulation. Recirculating Chiller Option: F-105. Ecological recirculating chiller. Cooling capacity: 300 W at 10°C. Fix temperature: 10°C. Option: F-105. Ecological recirculating chiller, Cooling capacity: 500 W at 15°C. Temperature: 10°C. Option: F-105. Ecological recirculating chiller, Cooling capacity: 500 W at 15°C. Temperature: 10°C to +25°C. Rotation knob for set temperature in steps of 1°C. In combination with Interface I-100: ON/OFF regulation. Prove Capacitor Coating PK Cat. No. R-100 vertical no	The Rotavapor [®] R-100 can be completed to a rotary evaporator system including a vacuum pump, interface and recirculating chiller.		BÜCHI
1-100, with Woulff bottle. Operation by function keys. Two operating modes (manual, timer), display of set and actual pressure. ON/OFF regulation of Vacuum Pump V-100 and Recirculating Chiller F-105. Vacuum Pump V+10 Is a chemically resistant PTFE diaphragm vacuum pump. Final vacuum: 10 mbar (±2 mbar). Suction capacity: 1.5 m³/h. ON/OFF regulation. Recirculating Chiller Option: F-100. Ecological recirculating chiller. Cooling capacity: 300 W at 10°C. Fix temperature: 10°C. Option: F-105. Ecological recirculating chiller. Cooling capacity: 500 W at 15°C. Temperature range: -10°C to +25°C. Rotation knob for set temperature in steps of 1°C. In combination with Interface I-100: ON/OFF regulation. Previous BÜCHI Westing bath B-100, manual lift, Interface I-100, vacuum pump V-100. BÜCHI Type Coating PK Cat. No. R:100 vertical no 1 6.268 006 R:100 vertical yes 1 6.268 006 R:100 vertical yes 1 6.268 006 R:100 vertical	and coating are similar to the Rotavapor® R-100.		
ON/OFF regulation of Vacuum Pump V-100 is a chemically resistant PTFE diaphragm vacuum pump. Final vacuum: 10 mbar (±2 mbar). Suction capacity: 1.5 m³/h. ON/OFF regulation. Recirculating Chiller Option: F-105. Ecological recirculating chiller. Cooling capacity: 300 W at 10°C. Fix temperature: 10°C. Option: F-105. Ecological recirculating chiller. Cooling capacity: 500 W at 15°C. Temperature: range: -10°C to +25°C. Rotation knob for set temperature in steps of 1°C. In combination with Interface 1-100: ON/OFF regulation. Provide the expected of th	Interface		
V-100 is a chemically resistant PTFE diaphragm vacuum pump. Final vacuum: 10 mbar (±2 mbar). Suction capacity: 1.5 m³/h. ON/OFF regulation. Recirculating Chiller Option: F-105. Ecological recirculating chiller. Cooling capacity: 300 W at 10°C. Fix temperature: 10°C. Option: F-105. Ecological recirculating chiller. Cooling capacity: 500 W at 15°C. Temperature range: -10°C to +25°C. Rotation knob for set temperature in steps of 1°C. In combination with Interface I-100: ON/OFF regulation. Image: Set of the step of 1°C. In combination with Interface I-100: ON/OFF regulation. BÜCHI Type Capacitor Coating PK Cat. No. R:100 vertical no 1 6.268 005 R:100 vertical no 1 6.268 005 R:100 cold trap no 1 6.268 005 R:100 vertical no 1 <td>ON/OFF regulation of Vacuum Pump V-100 and Recirculating Chiller F-105.</td> <td></td> <td></td>	ON/OFF regulation of Vacuum Pump V-100 and Recirculating Chiller F-105.		
Recirculating Chiller Option: F-100. Ecological recirculating chiller. Cooling capacity: 300 W at 10°C. Fix temperature: 10°C. Option: F-105. Ecological recirculating chiller. Cooling capacity: 500 W at 15°C. Temperature range: -10°C to +25°C. Rotation knob for set temperature in steps of 1°C. In combination with Interface I-100: ON/OFF regulation. Z Rotavapor® R-100 system configuration Image: Figure	Vacuum Pump		
Option: F-105. Ecological recirculating chiller. Cooling capacity: 300 W at 10°C. Fix temperature: 10°C. Option: F-105. Ecological recirculating chiller. Cooling capacity: 500 W at 15°C. Temperature range: -10°C to +25°C. Rotation knob for set temperature in steps of 1°C. In combination with Interface I-100: ON/OFF regulation. In steps of 1°C. In combination with Interface I-100: ON/OFF regulation. Rotavapor® R-100 system configuration Weitcal no Nettical no R-100 vertical No evertical No evertical No evertical No evertical No evertical Yet Catavapor® R-100 system configuration with recirculating chiller F-105 Retavapor® R-100 system configuration with recirculating chiller F-105 Retavapor® R-100 system configuration with recirculating chiller F-105 Retavapor® R-100 system configuration with recirculating chiller F-105 PK Cat. No. Rotavapor® R-100 system configuration with recirculating chiller F-105 Weither F-105. BÜCHI chiller F-105. PK Cat. No. Rotavapor® R-100 system configuration with recirculating chiller F-105	V-100 is a chemically resistant PTFE diaphragm vacuum pump. Final vacuum: 10 mbar (±2 mbar). Suction capacity: 1.5 m ³ /h. ON/OFF regula	tion.	
2 Rotavapor® R-100 system configuration Heating bath B-100, manual lift, Interface I-100, vacuum pump V-100. BÜCHI Type Capacitor Coating PK Cat. No. R-100 vertical no 1 6.268 007 R-100 vertical yes 1 6.268 007 R-100 vertical no 1 6.268 007 R-100 vertical yes 1 6.268 007 R-100 vertical no 1 6.268 009 3 Rotavapor® R-100 system configuration with recirculating chiller F-105 Image: Configuration with recirculating chiller F-105 Heating bath B-100, manual lift, Interface I-100, vacuum pump V-100, recirculating chiller F-105. Image: Conting Image: Conting Type Capacitor Coating PK Cat. No. R-100 yes 1 6.268 010 Image: Conting R-100 yes	Recirculating Chiller Option: F-100. Ecological recirculating chiller. Cooling capacity: 300 W at 10°C. Fix temperature: 10°C.		
2 Rotavapor® R-100 system configuration BÜCHI Heating bath B-100, manual lift, Interface I-100, vacuum pump V-100. BÜCHI Type Capacitor Coating R-100 vertical no R-100 vertical yes R-100 cold trap 1 6.268 007 R-100 5.268 007 R-100 vertical yes R-100 cold trap 1 6.268 007 Cat. No. 1 8.100 cold trap yes 3 Rotavapor® R-100 system configuration with recirculating chiller F-105 Image: Cold trap Heating bath B-100, manual lift, Interface I-100, vacuum pump V-100, recirculating chiller F-105. Image: Cold trap Type Capacitor Coating PK Cat. No. R:100 vertical no 1 6.268 010 Vertical no 1 6.268 010		mpera	iture
Rotavapor® R-100 System configuration BÜCHI Heating bath B-100, manual lift, Interface I-100, vacuum pump V-100. BÜCHI Type Capacitor Coating PK Cat. No. R-100 vertical no 1 6.268 006 R-100 vertical yes 1 6.268 006 R-100 cold trap no 1 6.268 009 8 no 1 6.268 009 1 6.268 009 8 R-100 cold trap yes 1 6.268 009 8 R-100 cold trap yes 1 6.268 009 8 R-100 cold trap yes 1 6.268 009 8 Cold trap yes 1 6.268 009 8 Cold trap Yes 1 6.268 009 8 F-100 system configuration with recirculating chiller F-105 BÜCHI Heating bath B-100, manual lift, Interface I-100, vacuum pump V-100, recirculating chiller F-105. BÜCHI BÜCHI Type Capacitor Coating PK Cat. No. R-100 yerical			
Rotavapor® R-100 System configuration BÜCHI Heating bath B-100, manual lift, Interface I-100, vacuum pump V-100. BÜCHI Type Capacitor Coating PK Cat. No. R-100 vertical no 1 6.268 006 R-100 vertical yes 1 6.268 006 R-100 cold trap no 1 6.268 009 8 no 1 6.268 009 1 6.268 009 8 R-100 cold trap yes 1 6.268 009 8 R-100 cold trap yes 1 6.268 009 8 R-100 cold trap yes 1 6.268 009 8 Cold trap yes 1 6.268 009 8 Cold trap Yes 1 6.268 009 8 F-100 system configuration with recirculating chiller F-105 BÜCHI Heating bath B-100, manual lift, Interface I-100, vacuum pump V-100, recirculating chiller F-105. BÜCHI BÜCHI Type Capacitor Coating PK Cat. No. R-100 yerical			
Type Capacitor Coating PK Cat. No. R-100 vertical no 1 6.268 005 R-100 vertical yes 1 6.268 007 R-100 cold trap no 1 6.268 007 R-100 cold trap no 1 6.268 009 3 Rotavapor® R-100 system configuration with recirculating chiller F-105 Image: Cold trap Heating bath B-100, manual lift, Interface I-100, vacuum pump V-100, recirculating chiller F-105. Image: BÜCHI chiller F-105. Type Capacitor Coating PK R-100 vertical no 1 6.268 010	2 Rotavapor® R-100 system configuration		NEWI
R-100 vertical no 1 6.268 006 R-100 vertical yes 1 6.268 007 R-100 cold trap no 1 6.268 008 R-100 cold trap yes 1 6.268 008 R-100 cold trap yes 1 6.268 009 Image: R-100 system configuration with recirculating chiller F-105 Image: R-100 Image: R-100 R-100, vacuum pump V-100, recirculating chiller F-105 Image: R-100 BÜCHI Chiller F-105. Image: R-100 vertical PK Cat. No. R-100 vertical no 1 6.268 010	Heating bath B-100, manual lift, Interface I-100, vacuum pump V-100.		BÜCHI
R-100 vertical no 1 6.268 006 R-100 vertical yes 1 6.268 007 R-100 cold trap no 1 6.268 008 R-100 cold trap yes 1 6.268 008 R-100 cold trap yes 1 6.268 009 Image: R-100 system configuration with recirculating chiller F-105 Image: R-100 Image: R-100 R-100, vacuum pump V-100, recirculating chiller F-105 Image: R-100 BÜCHI Chiller F-105. Image: R-100 vertical PK Cat. No. R-100 vertical no 1 6.268 010		DI	Cat Na
R-100 vertical yes 1 6.268 007 R-100 cold trap no 1 6.268 008 R-100 cold trap yes 1 6.268 009 3 Rotavapor® R-100 system configuration with recirculating chiller F-105 Image: cold trap 6.268 009 4 Buck and a system configuration with recirculating chiller F-105 Image: cold trap BUCHI Heating bath B-100, manual lift, Interface I-100, vacuum pump V-100, recirculating chiller F-105. BUCHI BUCHI Type Capacitor Coating PK Cat. No. R-100 vertical no 1 6.268 010			
3 Rotavapor® R-100 system configuration with recirculating chiller F-105 New Heating bath B-100, manual lift, Interface I-100, vacuum pump V-100, recirculating chiller F-105. BÜCHI Type Capacitor Coating R-100 vertical no	R-100 vertical yes	1	6.268 007
RotaVapor® R-100 System configuration with recirculating chiller F-105 BÜCHI Heating bath B-100, manual lift, Interface I-100, vacuum pump V-100, recirculating chiller F-105. BÜCHI Type Capacitor Coating R-100 vertical no 1 6.268 010			
RotaVapor® R-100 System configuration with recirculating chiller F-105 BÜCHI Heating bath B-100, manual lift, Interface I-100, vacuum pump V-100, recirculating chiller F-105. BÜCHI Type Capacitor Coating R-100 vertical no 1 6.268 010			
Chiller F-105. PK Cat. No. Type Capacitor Coating 1 6.268 010 R-100 vertical no 1 6.268 010	3 Rotavapor [®] R-100 system configuration with recirculating chiller F-105		NEWI
R-100 vertical no 1 6.268 010	Heating bath B-100, manual lift, Interface I-100, vacuum pump V-100, recirculating chiller F-105.		BÜCHI
	Type Capacitor Coating	РК	Cat. No.
R-100 vertical ves 1 6 268 011	R-100 vertical no R-100 vertical yes	1	6.268 010 6.268 011



Temperature range:

Protection class according to DIN EN 60529:

Heating power: **General data** Dimensions (WxDxH):

6. Distillation, separation, filtration Rotary evaporators/Instruments

1	* D. 220.05	(NIEW)
1 Industrial Rotava	apor® R-220 SE	(NEW) 1
recycling in the industrial env	lesigned for distillation, concentration, drying or s ironment. Key benefits are safety, robustness an oller and the large display allow for convenient co	d easy handling.
Different glass assemblies are of automation.	e available to cover different needs. A wide range	e of accessories enables different grades
	ng flask, 20 L evaporating flask and Vacuum Con or low boiling products, two receiving flasks, 20 L	
Specification		
Glass assemblies:	7 configurations	
Evaporating flask:	6 L, 10 L or 20 L	
Heating:	3.6 kW heating capacity for up to 180°C	
Bath lift:	electronically	
Rotation:	electronically, 5-150 rpm	
Protective coating:	Safety PLASTIC+GLAS coating	
Voltage:	200 V, 230 V (single phase) or 400 V (3 phase	
Туре	Description	PK Cat. No.
.,,-		
R-220 SE R, 20L, V-850, 230V	With reflux assembly	1 6.267 853
R-220 SE DW, 20L, V-850, 230V	With descending assembly	1 6.267 854
R-220 SE R, 20L, V-850, 400V R-220 SE DW, 20L, V-850, 400V	With reflux assembly With descending assembly	1 6.267 855 1 6.267 856
1 220 SE DW, 20L, V 030, 400V	with descending assembly	1 0.207 050
2 Rotary Evaporate	or RV 8 📃 🧹 🥄	
The IKA Rotary Evaporator ra	nge gets a new family member - the RV 8. This o	distilling system completes IKA
	a functional basic model. The manual lift, with ar	
	glassware. Digital displays for rotation speed and	
for optimal control of all distil	ling processes. New clamp mechanism to simplify	y the changing of evaporation flasks.
- Manual lift with integrated s		
	integrated ergonomic carrying handles	
	ction for the heating bath temperature	2
- Adjustable immersion angle		
	speed and heating bath temperature	
 Single-hand operation; amb Speed range 5 - 300rpm 	bidextrous design	
	gh reduced 24 V power requirements within the	unit
	te range of IKA RV 10 glassware	
- New clamp mechanism	te runge of northy to glassware	
Specifications		
Drive		
Motor rating input	50W	
Speed:	5 to 300rpm	
Speed display:		
	digital	
Adjustable head angle:	0 to 45°	
Stroke displacement:		
	0 to 45°	

220-240V, 50/60Hz Power supply Туре Description PK Cat. No. RV 8 Flex with heating bath HB 10 and Woulff bottle 9.813 001 1 with heating bath HB 10 and vertical glassware, RV 10.1 with heating bath HB 10 and vertical glassware, coated RV 10.10 9.813 002 9.813 003 RV 8 V 1 RV 8 V-C 1

RT to +180°C 1300W

IP 20

510 x 345 x 490mm

Rotary evaporato	r RV 10 digital	NEWI
The RV 10 digital is a ro specially designed glass reproducible process res function capability supp The motorized lift has a individually. Dry-run pro choice of coated glassw	bust and reliable lab companion. Its optimized bath volume allows for fast heat-up times. The condenser unit has tubes that utilize the 1500 cm ² surface extremely efficiently. That's why the RV 10 digital delivers reliable and sults usually seen on much more costly systems. Additional features such as smooth start, left-right interval or ti ort the users in their daily lab work. Another important aspect of the RV 10 digital is the sophisticated safety feat n automated lift-out function in case of power outage to prevent superheating of the solvent. Safety temperature otection, adjustable lower end stop and lock function of bath setting complete the line of safety features. Furtherr are for increased safety needs. RS232 interface which allows for remote control via IKAs "labworldsoft". The heating bath is controlled via the IR	mer ures. e circuits can be set nore, IKA offers a
 Highly efficient 1500 c Rugged design Ergonomically placed Smooth start Left-right interval Timer function Dry-run protection Safety temperature ci Lower-end stop Choice of coated glass Push-off mechanism t Easy and safe operatic RS-232 interface for rest 	standard fety-stop" function h volume for fast heat-up cm ² condenser unit handles on heating bath rcuits ware o loosen tight fitted glassware on due to ergonomically designed user interface	
Specifications Drive: Motor rating input: Speed range: Speed display: Head angle adjustable: Stroke displacement: Setting of lower end sto Heating bath: Temperature range: Heating power: Protection class acc. to Power supply:	Ambient up to 180°C 1.300W	
Туре	Description	PK Cat. No.
RV 10 digital V RV 10 digital V-C RV 10 digital V FLEX	with heating bath HB 10, vertical glassware RV 10.1, vapor tube RV 10.70 with heating bath HB 10, vertical glassware, coated RV 10.10, vapor tube RV 10.70 with heating bath HB 10, Woulf bottle, spherical joint clip RV 05.10, clamp, NS 29 RV 10.88, vapor tube RV 10.70	1 9.813 012 1 1 9.813 014 1 9.813 015

Heating bath liquid - please see page 774.

We can Supply this manufacturer's whole product range ! KA®

Vapor tube made of borosilicate glass, NS 29/32

Lip-seal from a PTFE compound with a built-in stainless steel spring



1 6.237 535

4.008 136

RV 10.70

RV 10.8001

Rotary evaporator RV 10 control

The RV 10 control is the flagship of the rotary evaporator series by IKA[®]. It stands out by virtue of use with color graphic display, integrated vacuum controller, cooling water monitoring and sophisticated safety standards. But the IKA[®] RV 10 control goes one step further. Like the RV 10 digital, it can be precisely controlled via the RS 232 interface for remote PC operation with IKA[®]s labworldsoft[®] and is thus ideal for automatic operation, but thats not all; the control functions also enable completely automatic distillation both for volume based processes and full drying depending on the area of application. The expandable solvent library also allows you to incorporate new processes.

Same properties as RV 10 digital, with the following additional functions:

Integrated vacuum controller with central display for automatic distilling and ramp programming

- Integrated solvent library, which can be extended by the user
- Distillation specific parameters stored for standard distillations
- Automatic transfer of measurements and distillation type with one key press
- Programmable volume controlled distillation
- Colour graphic display for safe and comfortable operation
- Display of distillation curves
- Multiple languages
- Automatic ventilation at the end of each test
- Cooling water switched off automatically at the end of the test
- Integrated cooling water monitoring
- Heating bath safety management; automatic heating bath monitoring with distillation stop in case of temperature errors
- Heating bath switched off automatically at the end of the test
- USB interface
- 5 years warranty after registration
- New: Now RV 10.4002 Magnetic valve included in delivery

Туре	Description	РК	Cat. No.
RV 10 control V	with heating bath HB 10, vertical glassware RV 10.1 and RV 10.4002 Magnetic valve laboratory vacuum	1	9.813 004 <mark>1</mark>
RV 10 control V-C	with heating bath HB 10, vertical glassware, coated RV 10.10 and RV 10.4002 Magnetic valve laboratory vacuum	1	9.813 005
RV 10 control FLEX	with heating bath HB 10, incl. Woulff bottle and RV 10.4002 Magnetic valve laboratory vacuum, glassware - please order separately	1	9.813 006
RV 10 control V auto	with heating bath HB 10, speed-controlled pump N 920, vertical glassware RV 10.1	1	9.813 007 2
RV 10 control V-C auto	with heating bath HB 10, speed-controlled pump N 920, vertical glassware, coated RV 10.1	1	9.813 008



Accessories for Rotary evaporators RV 8/RV 10 digital/RV 10 control

IKA

(NE

IKA

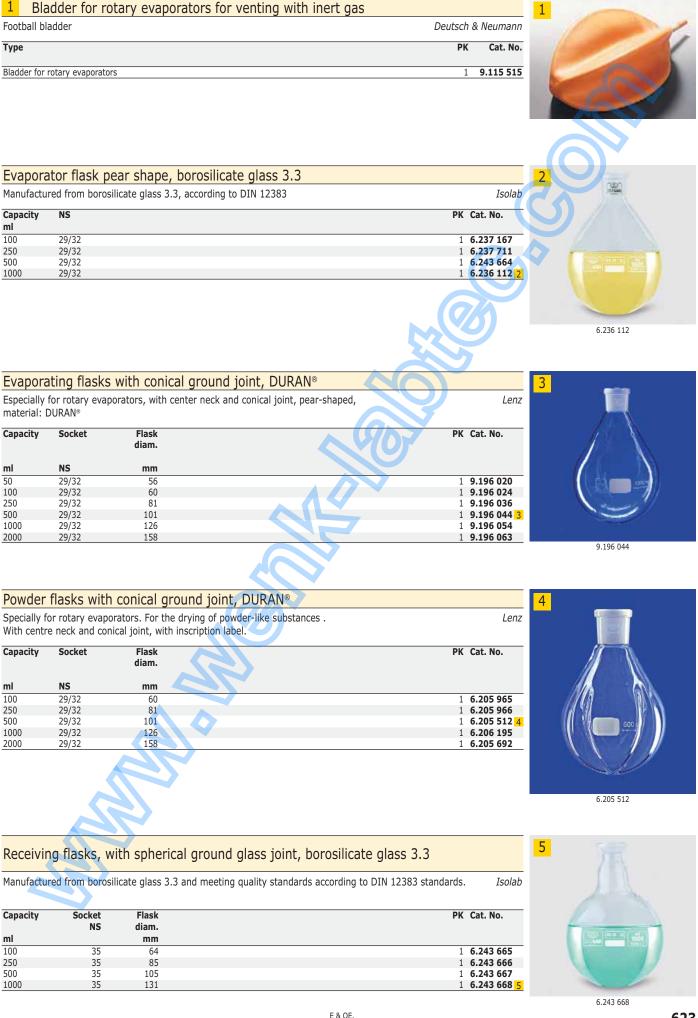
Туре	Description	PK	Cat. No
MVP 10 basic	Vacuum pump	1	9.813 010
N 920 KT.29.18	Vacuum pump	1	6.229 964
LVS105T-10 ef	Vacuum pump	1	4.008 149
VCV 1	Vacuum control valve	1	9.813 016
RV 10.4001	Magnetic valve in-house vacuum	1	6.237 539
RV 10.4002	Magnetic valve laboratoy vacuum	1	6.237 538
RV 10.4003	Pump control incl. magnetic valve	1	6.237 330
RV 10.5001	Choke water valve	1	6.237 540
RV 10.5002	Filter	1	6.237 541
RV 10.5003	Pressure regulating valve	1	6.237 542

1 Rotary evaporator RC 900		(NEW)
 Sleek design, small footprint Whisper quiet for a pleasant working environment Versatile use, simple operation 		KNF
Features - Chilled condenser is straightforward to detach by turning - Relevant parameters for distillation and for the heating ba - Cordless heating bath with drain for safe bleeding and em - Hose guide inside the tower - tidy and safe, with hoses no - Straight-forward flask exchange - glass flask simply locks - Convenient, fully adjustable flask angle set via a control k	ptying without spillages. longer an obstruction. into place - and can be done with one hand.	o clean.
Specifications		
Heating bath: heating bath temperature Coolant supply (chilled condenser)	20 - 180°C	
Permissible pressure:	3bar	
Permissible temperature:	15°C bis +20°C	
Cooled surface area:	1230cm ²	
Parameters of evaporation flask Size of evaporation flask:	50 - 3000ml	
Rotational speed:	25 - 250 min ⁻¹	
Length of stroke:	150mm	
Lifting speed:	approx 38mm/s	
Dimensions (L x H x W)		
Without glass:	447 x 464 x 431mm	
With glass: Weight:	447 x 823 x 487mm 9.1kg	
weight.	9.1kg	
Туре		PK Cat. No.
Rotary evaporator RC 900 Protective cover for heating bath		1 7.660 052 1 7.660 053
1		

Suitable Vacuum pumps - please see page 974.

6. Distillation, separation, filtration

Rotary evaporators/Accessories



6. Distillation, separation, filtration **Rotary evaporators/Accessories**



9.196 244

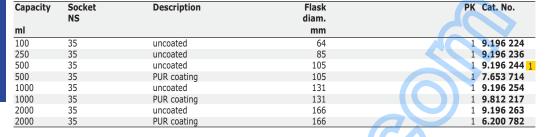
Receiving flasks, DURAN®

Especially for rotary evaporators, with spherical joint socket S 35, with and without, transparent PUR coating, autoclavable, material: DURAN®.

Lenz

Lenz

Lenz





9.011 698

Fork clamps for spherical joints Material: stainless steel. For spherical ground joint connections. With set screw. Size PK Cat. No. S 13 1 9.011 693 S 19 1 9.011 694 S 29 9.011 695 1 S 35 1 9.011 698 2 S 40 / 41 9.011 696 1 S 65 9.011 697

PUR Coating,	autoclavabl	e
--------------	-------------	---

Physical Properties

Autoclavable Transmission Long-term heat resistance Max. heat resistance Suitable for freezing Suitable for microwave use: Chemical Properties (Resistance) Water Organic solvents - alcohol - acetone - tetra

- Inorganic acids, bases
- hydrochloric acid (up to 20%)
- nitric acid (up to 20%)
- sulphuric acid (up to 20%)
- caustic soda (up to 20%)
- Cleaning resistance
- industrial washers/clinic
- household dishwashers

121°C/2.05 bar/20 minutes - max. 100 cycles absorption up to 380nm up to 140°C up to 190°C for a short time -30°C yes

up to 100°C room temperature/5 min. constant exposure

room temperature/5 min. constant exposure

Standard disinfectants and detergents up to 50 cycles/ max. 95°C up to 50 cycles/ max. 65°C



6.246 010

Evaporating flasks with conical ground joint, DURAN[®], with PUR coating

NEW

Especially for rotary evaporators, with center neck and conical joint, with highly transparent PUR coating, autoclavable, pear-shaped, material: DURAN®

Capacity	Socket	Flask diam.	PK Cat. No.
ml	NS	mm	
50	29/32	56	1 6.246 006
100	29/32	60	1 6.246 007
250	29/32	81	1 6.246 008
500	29/32	101	1 6.246 009
1000	29/32	126	1 6.246 010 3
2000	29/32	158	1 6.242 495
3000	29/32	175	1 6.246 011

E & OE. www.wenk-labtec.com

Please note that the maximum speed of a centrifuge can be decreased due to the maximum speed value of the rotor. Maximum speed and also the reachable g-value always depends on the rotor's values.



6. Distillation, separation, filtration

Separating, centrifuging/Minicentrifuges





Safety features ensure the unit will not operate with an open lid, a jammed rotor or when out of balance. Gusto™ provides the option of setting and displaying in rpm or rcf. Efficiently designed for minimum bench top space. Included features typically found on more expensive units.

Supplied with:

- 12 place standard rotor with lid for 1.5/2ml tubes
- 8-place strip rotor for four 0.2ml tube strips or 32 single tubes
- Twelve 0.2ml and twelve 0.5ml adapters for customized use
- Power Adapter with power cords for e.g. EU, UK, CH, USA

Specifications

Max. RCF: Max. speed: Max. capacity Timer: Power consumption: Dimensions: Weight: Power supply:

9800 x g 12500rpm 12 x 1.5/2.0ml tubes or 4 x 8 strips PCR 1sec to 30min in 1sec steps 96W 203 x 171 x 114mm 2.7kg 100 - 240 V, 50/60 Hz 5



PK Cat. No.

Type Gusto™



3	3 Mini Plate Spinne	r MPS 1000		
	 quickly spin down droplets a use before and after therma accepts skirted, non-skirted less than ¼ x the size of mo 	l cycling to increase PCR yield and all standard PCR plates		Labnet
	Specifications	500%		
	Max. RCF: Max. speed:	500xg 2500rpm		
	Max. capacity:	2 PCR Plates		
Therease	Power consumption:	75W		
	Dimensions (WxDxH):	483 x 534 x 465mm		
	Weight:	3kg		
	Power supply:	230V 50/60Hz		
	Туре		РК	Cat. No.
	MPS 1000		1	9.945 790
628		E & OE.		

	· TM A4· ·	
	rism™ Mini 1	
TI 1.10 I.1 I.1	r a wide range of molecular biology separations and quick spins.	
	o be extremely compact with an exceptionally small footprint.	
	erchangeable rotors, which spin up to 6000rpm's. Opening lid allow for quick deceleration to reduce handling time.	
	-free drive is remarkably quiet and the unique design allows for excellent airflow,	
to protect temperature sensitiv		131
- Quick release rotor exchange	e house and the second s	
 Increased sample capacity Rapid sample processing 		
- One-step sample retrieval		
	ge incl. 8 place tube rotor for 1.5/2.0ml microcentrifuge tubes, incl. adapters for 0.5ml protor for 4 strips with 8 x 0.2ml tubes or 32 x 0.2ml single tubes.	
and 0.4mm tubes and PCK strip	Totor for 4 strips with 8 x 0.2mit tubes or 52 x 0.2mit single tubes.	
Further adapters available	on request.	
Creations		
Specifications Max. RCF:	2000 x g	
Max. speed:	6000rpm	
Max. capacity:	8 x 1.5/2.0ml or 4 strips with 8 x 0.2ml	
Power consumption:	5W	
Dimensions (WxDxH):	132 x 132 x 112mm	
Weight: Power supply:	0.55kg 230V, 50/60Hz	
,		
Туре	PK Cat. No.	
Mini Centrifuge Prism™ Mini	1 9.945 789	
Individual adapters for 0.5/0.6ml t Individual adapters for 0.4/0.25ml		
Individual adapters for 0.2ml them		
2		
2 Micro Centrifuge		
Compact high-speed benchtop	o micro centrifuge with a built-in rotor for 12 x 1.5/2ml microtubes. Grant	
Compact high-speed benchtop	o micro centrifuge with a built-in rotor for 12 x 1.5/2ml microtubes. Grant	1
Compact high-speed benchtop Ideal for biomedical laboratorio	p micro centrifuge with a built-in rotor for 12 x 1.5/2ml microtubes. Grant es.	~
Compact high-speed benchtop Ideal for biomedical laboratorio - Fixed angular aluminium roto	o micro centrifuge with a built-in rotor for 12 x 1.5/2ml microtubes. Grant es. or accommodates 12 x 1.5/2 ml microtubes, supplied with 12 adapters for 0.2ml and	5
Compact high-speed benchtop Ideal for biomedical laboratorio - Fixed angular aluminium roto 0.5ml tubes and fixing lid (ro - Timed operation (1 to 30 mir	o micro centrifuge with a built-in rotor for 12 x 1.5/2ml microtubes. Grant es. or accommodates 12 x 1.5/2 ml microtubes, supplied with 12 adapters for 0.2ml and otor autoclavable, lid not autoclavable) nutes), with automatic switch-off	D
Compact high-speed benchtop Ideal for biomedical laboratorio - Fixed angular aluminium roto 0.5ml tubes and fixing lid (ro - Timed operation (1 to 30 min - Suitable to use in cold rooms	o micro centrifuge with a built-in rotor for 12 x 1.5/2ml microtubes. Grant es. or accommodates 12 x 1.5/2 ml microtubes, supplied with 12 adapters for 0.2ml and otor autoclavable, lid not autoclavable) nutes), with automatic switch-off s, operating temperature ambient +4°C to 25°C	D
Compact high-speed benchtop Ideal for biomedical laboratorio - Fixed angular aluminium roto 0.5ml tubes and fixing lid (ro - Timed operation (1 to 30 min - Suitable to use in cold rooms - Metal protective inserts insid	o micro centrifuge with a built-in rotor for 12 x 1.5/2ml microtubes. Grant es. or accommodates 12 x 1.5/2 ml microtubes, supplied with 12 adapters for 0.2ml and otor autoclavable, lid not autoclavable) nutes), with automatic switch-off	2
Compact high-speed benchtop Ideal for biomedical laboratorio - Fixed angular aluminium roto 0.5ml tubes and fixing lid (ro - Timed operation (1 to 30 min - Suitable to use in cold rooms - Metal protective inserts insid operation	o micro centrifuge with a built-in rotor for 12 x 1.5/2ml microtubes. Grant es. or accommodates 12 x 1.5/2 ml microtubes, supplied with 12 adapters for 0.2ml and otor autoclavable, lid not autoclavable) nutes), with automatic switch-off s, operating temperature ambient +4°C to 25°C de the lid and casing, automatic imbalance switch-off and locking of a lid provide safe	2
Compact high-speed benchtop Ideal for biomedical laboratorio - Fixed angular aluminium roto 0.5ml tubes and fixing lid (ro - Timed operation (1 to 30 min - Suitable to use in cold rooms - Metal protective inserts insid operation - Constant airflow around the	o micro centrifuge with a built-in rotor for 12 x 1.5/2ml microtubes. Grant es. or accommodates 12 x 1.5/2 ml microtubes, supplied with 12 adapters for 0.2ml and otor autoclavable, lid not autoclavable) nutes), with automatic switch-off s, operating temperature ambient +4°C to 25°C de the lid and casing, automatic imbalance switch-off and locking of a lid provide safe rotor reduces risk of samples overheating during centrifugation	2
Compact high-speed benchtop Ideal for biomedical laboratorio - Fixed angular aluminium roto 0.5ml tubes and fixing lid (ro - Timed operation (1 to 30 min - Suitable to use in cold rooms - Metal protective inserts insid operation - Constant airflow around the - Simple push-buttons and a c and relative centrifugal force	o micro centrifuge with a built-in rotor for 12 x 1.5/2ml microtubes. Grant es. or accommodates 12 x 1.5/2 ml microtubes, supplied with 12 adapters for 0.2ml and otor autoclavable, lid not autoclavable) nutes), with automatic switch-off s, operating temperature ambient +4°C to 25°C de the lid and casing, automatic imbalance switch-off and locking of a lid provide safe rotor reduces risk of samples overheating during centrifugation clear 2-line LCD status display shows actual and set values of time, set and actual speed e (g-force)	2
Compact high-speed benchtop Ideal for biomedical laboratorio - Fixed angular aluminium roto 0.5ml tubes and fixing lid (ro - Timed operation (1 to 30 min - Suitable to use in cold rooms - Metal protective inserts insid operation - Constant airflow around the - Simple push-buttons and a c and relative centrifugal force - Low voltage cord easily fits t	o micro centrifuge with a built-in rotor for 12 x 1.5/2ml microtubes. Grant es. or accommodates 12 x 1.5/2 ml microtubes, supplied with 12 adapters for 0.2ml and otor autoclavable, lid not autoclavable) nutes), with automatic switch-off s, operating temperature ambient +4°C to 25°C de the lid and casing, automatic imbalance switch-off and locking of a lid provide safe rotor reduces risk of samples overheating during centrifugation clear 2-line LCD status display shows actual and set values of time, set and actual speed e (g-force) chrough refrigerator or workstation door gaskets	2
Compact high-speed benchtop Ideal for biomedical laboratorio - Fixed angular aluminium roto 0.5ml tubes and fixing lid (ro - Timed operation (1 to 30 mir - Suitable to use in cold rooms - Metal protective inserts insid operation - Constant airflow around the - Simple push-buttons and a c and relative centrifugal force - Low voltage cord easily fits t - Compact design and quiet in	or micro centrifuge with a built-in rotor for 12 x 1.5/2ml microtubes. Grant es. or accommodates 12 x 1.5/2 ml microtubes, supplied with 12 adapters for 0.2ml and otor autoclavable, lid not autoclavable) nutes), with automatic switch-off s, operating temperature ambient +4°C to 25°C le the lid and casing, automatic imbalance switch-off and locking of a lid provide safe rotor reduces risk of samples overheating during centrifugation clear 2-line LCD status display shows actual and set values of time, set and actual speed e (g-force) through refrigerator or workstation door gaskets operation	2
Compact high-speed benchtop Ideal for biomedical laboratorio - Fixed angular aluminium roto 0.5ml tubes and fixing lid (ro - Timed operation (1 to 30 mir - Suitable to use in cold rooms - Metal protective inserts insid operation - Constant airflow around the - Simple push-buttons and a c and relative centrifugal force - Low voltage cord easily fits t - Compact design and quiet in	or micro centrifuge with a built-in rotor for 12 x 1.5/2ml microtubes. Grant es. or accommodates 12 x 1.5/2 ml microtubes, supplied with 12 adapters for 0.2ml and otor autoclavable, lid not autoclavable) nutes), with automatic switch-off s, operating temperature ambient +4°C to 25°C le the lid and casing, automatic imbalance switch-off and locking of a lid provide safe rotor reduces risk of samples overheating during centrifugation clear 2-line LCD status display shows actual and set values of time, set and actual speed e (g-force) through refrigerator or workstation door gaskets operation	
Compact high-speed benchtop Ideal for biomedical laboratorio - Fixed angular aluminium roto 0.5ml tubes and fixing lid (ro - Timed operation (1 to 30 min - Suitable to use in cold rooms - Metal protective inserts insid operation - Constant airflow around the - Simple push-buttons and a c and relative centrifugal force - Low voltage cord easily fits t - Compact design and quiet in - Fits neatly and unobtrusively	or micro centrifuge with a built-in rotor for 12 x 1.5/2ml microtubes. Grant es. or accommodates 12 x 1.5/2 ml microtubes, supplied with 12 adapters for 0.2ml and otor autoclavable, lid not autoclavable) nutes), with automatic switch-off s, operating temperature ambient +4°C to 25°C le the lid and casing, automatic imbalance switch-off and locking of a lid provide safe rotor reduces risk of samples overheating during centrifugation clear 2-line LCD status display shows actual and set values of time, set and actual speed e (g-force) through refrigerator or workstation door gaskets operation	
Compact high-speed benchtop Ideal for biomedical laboratorio - Fixed angular aluminium roto 0.5ml tubes and fixing lid (ro - Timed operation (1 to 30 min - Suitable to use in cold rooms - Metal protective inserts insid operation - Constant airflow around the - Simple push-buttons and a c and relative centrifugal force - Low voltage cord easily fits t - Compact design and quiet in - Fits neatly and unobtrusively Specifications	or micro centrifuge with a built-in rotor for 12 x 1.5/2ml microtubes. Grant es. or accommodates 12 x 1.5/2 ml microtubes, supplied with 12 adapters for 0.2ml and otor autoclavable, lid not autoclavable) nutes), with automatic switch-off s, operating temperature ambient +4°C to 25°C le the lid and casing, automatic imbalance switch-off and locking of a lid provide safe rotor reduces risk of samples overheating during centrifugation clear 2-line LCD status display shows actual and set values of time, set and actual speed e (g-force) through refrigerator or workstation door gaskets operation	2
Compact high-speed benchtop Ideal for biomedical laboratorio - Fixed angular aluminium roto 0.5ml tubes and fixing lid (ro - Timed operation (1 to 30 mir - Suitable to use in cold rooms - Metal protective inserts insid operation - Constant airflow around the - Simple push-buttons and a c and relative centrifugal force - Low voltage cord easily fits t - Compact design and quiet in - Fits neatly and unobtrusively Specifications Max. RCF: Max. speed:	b micro centrifuge with a built-in rotor for 12 x 1.5/2ml microtubes. Grant es. or accommodates 12 x 1.5/2 ml microtubes, supplied with 12 adapters for 0.2ml and otor autoclavable, lid not autoclavable) nutes), with automatic switch-off s, operating temperature ambient +4°C to 25°C le the lid and casing, automatic imbalance switch-off and locking of a lid provide safe rotor reduces risk of samples overheating during centrifugation clear 2-line LCD status display shows actual and set values of time, set and actual speed a (g-force) hrough refrigerator or workstation door gaskets operation into the workspace 12.400xg 14.500rpm	2
Compact high-speed benchtop Ideal for biomedical laboratorio - Fixed angular aluminium roto 0.5ml tubes and fixing lid (ro - Timed operation (1 to 30 mir - Suitable to use in cold rooms - Metal protective inserts insid operation - Constant airflow around the - Simple push-buttons and a co and relative centrifugal force - Low voltage cord easily fits t - Compact design and quiet in - Fits neatly and unobtrusively Specifications Max. RCF: Max. speed: Max. capacity:	or micro centrifuge with a built-in rotor for 12 x 1.5/2ml microtubes. Grant es. or accommodates 12 x 1.5/2 ml microtubes, supplied with 12 adapters for 0.2ml and otor autoclavable, lid not autoclavable) nutes), with automatic switch-off s, operating temperature ambient +4°C to 25°C le the lid and casing, automatic imbalance switch-off and locking of a lid provide safe rotor reduces risk of samples overheating during centrifugation clear 2-line LCD status display shows actual and set values of time, set and actual speed (g-force) hrough refrigerator or workstation door gaskets operation into the workspace 12.400xg 14.500rpm 12 x 0.2/0.5/1.5/2ml tubes	2
Compact high-speed benchtop Ideal for biomedical laboratorio - Fixed angular aluminium roto 0.5ml tubes and fixing lid (ro - Timed operation (1 to 30 mir - Suitable to use in cold rooms - Metal protective inserts insid operation - Constant airflow around the - Simple push-buttons and a c and relative centrifugal force - Low voltage cord easily fits t - Compact design and quiet in - Fits neatly and unobtrusively Specifications Max. RCF: Max. speed: Max. capacity: Timer:	or micro centrifuge with a built-in rotor for 12 x 1.5/2ml microtubes. Grant or accommodates 12 x 1.5/2 ml microtubes, supplied with 12 adapters for 0.2ml and otor autoclavable, lid not autoclavable) nutes), with automatic switch-off s, operating temperature ambient +4°C to 25°C de the lid and casing, automatic imbalance switch-off and locking of a lid provide safe rotor reduces risk of samples overheating during centrifugation clear 2-line LCD status display shows actual and set values of time, set and actual speed e (g-force) through refrigerator or workstation door gaskets operation into the workspace 12.400xg 14.500rpm 12 x 0.2/0.5/1.5/2ml tubes 1 to 30 min	2
Compact high-speed benchtop Ideal for biomedical laboratorio - Fixed angular aluminium roto 0.5ml tubes and fixing lid (ro - Timed operation (1 to 30 mir - Suitable to use in cold rooms - Metal protective inserts insid operation - Constant airflow around the - Simple push-buttons and a c and relative centrifugal force - Low voltage cord easily fits t - Compact design and quiet in - Fits neatly and unobtrusively Specifications Max. RCF: Max. speed: Max. capacity: Timer: Power consumption:	or micro centrifuge with a built-in rotor for 12 x 1.5/2ml microtubes. Grant es. or accommodates 12 x 1.5/2 ml microtubes, supplied with 12 adapters for 0.2ml and otor autoclavable, lid not autoclavable) nutes), with automatic switch-off s, operating temperature ambient +4°C to 25°C de the lid and casing, automatic imbalance switch-off and locking of a lid provide safe rotor reduces risk of samples overheating during centrifugation clear 2-line LCD status display shows actual and set values of time, set and actual speed e (g-force) through refrigerator or workstation door gaskets operation into the workspace 12.400xg 14.500rpm 12 x 0.2/0.5/1.5/2ml tubes 1 to 30 min 60W	2
Compact high-speed benchtop Ideal for biomedical laboratorio - Fixed angular aluminium roto 0.5ml tubes and fixing lid (rot - Timed operation (1 to 30 mir - Suitable to use in cold rooms - Metal protective inserts insid operation - Constant airflow around the - Simple push-buttons and a c and relative centrifugal force - Low voltage cord easily fits t - Compact design and quiet in - Fits neatly and unobtrusively Specifications Max. RCF: Max. speed: Max. capacity: Timer: Power consumption: Dimensions (WxDxH):	or micro centrifuge with a built-in rotor for 12 x 1.5/2ml microtubes. Grant es. or accommodates 12 x 1.5/2 ml microtubes, supplied with 12 adapters for 0.2ml and otor autoclavable, lid not autoclavable) nutes), with automatic switch-off s, operating temperature ambient +4°C to 25°C le the lid and casing, automatic imbalance switch-off and locking of a lid provide safe rotor reduces risk of samples overheating during centrifugation clear 2-line LCD status display shows actual and set values of time, set and actual speed (g-force) hrough refrigerator or workstation door gaskets operation rinto the workspace 12.400xg 14.500rpm 12 x 0.2/0.5/1.5/2ml tubes 1 to 30 min 60W 200 x 240 x 125mm	
Compact high-speed benchtop Ideal for biomedical laboratorio - Fixed angular aluminium roto 0.5ml tubes and fixing lid (rot - Timed operation (1 to 30 mir - Suitable to use in cold rooms - Metal protective inserts insid operation - Constant airflow around the - Simple push-buttons and a co and relative centrifugal force - Low voltage cord easily fits t - Compact design and quiet in - Fits neatly and unobtrusively Specifications Max. RCF: Max. speed: Max. capacity: Timer: Power consumption: Dimensions (WxDxH): Weight:	or micro centrifuge with a built-in rotor for 12 x 1.5/2ml microtubes. Grant es. or accommodates 12 x 1.5/2 ml microtubes, supplied with 12 adapters for 0.2ml and otor autoclavable, lid not autoclavable) nutes), with automatic switch-off s, operating temperature ambient +4°C to 25°C de the lid and casing, automatic imbalance switch-off and locking of a lid provide safe rotor reduces risk of samples overheating during centrifugation clear 2-line LCD status display shows actual and set values of time, set and actual speed e (g-force) through refrigerator or workstation door gaskets operation into the workspace 12.400xg 14.500rpm 12 x 0.2/0.5/1.5/2ml tubes 1 to 30 min 60W	
Compact high-speed benchtop Ideal for biomedical laboratorio - Fixed angular aluminium roto 0.5ml tubes and fixing lid (rot - Timed operation (1 to 30 mir - Suitable to use in cold rooms - Metal protective inserts insid operation - Constant airflow around the - Simple push-buttons and a c and relative centrifugal force - Low voltage cord easily fits t - Compact design and quiet in - Fits neatly and unobtrusively Specifications Max. capacity: Timer: Power consumption: Dimensions (WxDxH): Weight: Power supply:	<pre>nmicro centrifuge with a built-in rotor for 12 x 1.5/2ml microtubes. es. or accommodates 12 x 1.5/2 ml microtubes, supplied with 12 adapters for 0.2ml and otor autoclavable, lid not autoclavable) nutes), with automatic switch-off s, operating temperature ambient +4°C to 25°C ie the lid and casing, automatic imbalance switch-off and locking of a lid provide safe rotor reduces risk of samples overheating during centrifugation clear 2-line LCD status display shows actual and set values of time, set and actual speed a (g-force) through refrigerator or workstation door gaskets operation y into the workspace</pre>	
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Compact high-speed benchtop Ideal for biomedical laboratorio - Fixed angular aluminium roto 0.5ml tubes and fixing lid (rot - Timed operation (1 to 30 mir - Suitable to use in cold rooms - Metal protective inserts insid operation - Constant airflow around the - Simple push-buttons and a c and relative centrifugal force - Low voltage cord easily fits t - Compact design and quiet in - Fits neatly and unobtrusively Specifications Max. RCF: Max. speed: Max. capacity: Timer: Power consumption: Dimensions (WxDxH): Weight: Power supply:	<pre>nmicro centrifuge with a built-in rotor for 12 x 1.5/2ml microtubes. es. or accommodates 12 x 1.5/2 ml microtubes, supplied with 12 adapters for 0.2ml and otor autoclavable, lid not autoclavable) nutes), with automatic switch-off s, operating temperature ambient +4°C to 25°C ie the lid and casing, automatic imbalance switch-off and locking of a lid provide safe rotor reduces risk of samples overheating during centrifugation clear 2-line LCD status display shows actual and set values of time, set and actual speed a (g-force) through refrigerator or workstation door gaskets operation y into the workspace</pre>	

Eppendorf

6. Distillation, separation, filtration

Separating, centrifuging/Minicentrifuges



1 MiniSpin[®] and MiniSpin[®] Plus personal centrifuges

Features:

- Extremely compact and small footprint
- Especially quiet due to its carefully balanced drive
- Maintenance-free motor
 Clear digital display
- Minimal sample heating (after 20min. at max. speed only 12°C max.)
- Separate short-spin button
- Automatic lid opening
- Integral power supply unit
- Capacity: 12 x 1.5/2ml containers
- Autoclavable rotor (121°C, 20min.)
- Start-up/slow-down time less than 13 secs. (to/from max. speed).

Additional features of MiniSpin®

- Includes standard anodised aluminium rotor
- Timer can be set for up to 30 minutes

Additional features of MiniSpin[®] Plus

- Includes premium "Black Line" aluminium rotor
- Speed/rcf display switch
- Timer can be set for up to 99 minutes
- Permanent centrifuging option

Specifications

Max. RCF MiniSpin®: MiniSpin® plus: Max. speed MiniSpin®: MiniSpin® plus: Max. capacity: Timer MiniSpin[®]: MiniSpin® plus: Power consumption MiniSpin®: MiniSpin[®] plus: Dimensions (WxDxH): Weight: Power supply:

12.400 x g 14.100 x g 13.400rpm

14.500rpm 12 x 1.5/2ml tubes

0 - 30min

0 - 90min, continuous run

70W 85W 225 x 240 x 120mm 4.3kg

230V, 50/60Hz

Туре

MiniSpin®	1 9.776 500
MiniSpin® plus	1 9.776 501
Rotor F-55-16-5-PCR incl. lid	1 9.776 521
Lid, stainless steel for F-55-16-5-PCR	1 9.776 522
Adapter for 0.5ml microcentrifuge tubes and 0.6ml microtainers	6 9.776 488
Adapter for 0.4ml microcentrifuge tubes	6 9.776 487
Adapter for 0.2ml PCR-vessels	6 9.776 504

2 Mini-centrifuge mini G

Mini-centrifuge for all applications which do not require high speeds, e.g. micro-filtrations and cell separation. Transparent cover allows constant observation of centrifuge.

The mini-centrifuge can be used for both PCR-vessels and PCR-strips.

As a safety feature, the centrifuge will run only when the lid is closed. Lid opens easily with the press of a button.

- Fixed speed of 6000rpm
- Digital timer adjustable from 1 to 99min
- Integrated quick stop
- Fast start-up of speed
- Compact design and quiet operation
- Rotor exchangeable without tools
- Easy operation with touch keypad

Specifications

Max. RCF:	2000xg
Max. speed:	6000rpm
Max. capacity:	8 x 2.0ml
Timer:	1 to 99min
Power consumption:	12W
Dimensions (WxDxH):	155 x 175 x 105mm
Weight:	1.4kg
Power supply:	24V DC voltage
Trues	

Туре

1

mini G incl. plug for UK/CH

2

9.570 480

Cat. No.

IKA

PK



Prism ambient microcentrifuge with 24 place rotor19.9457952Prism R ambient microcentrifuge with 24 place rotor and cooling19.9457933StripSpin adapter for 0.2ml tubes and strips19.945794Individual adapter for 0.5/0.6ml tubes69.945796Individual adapter for 0.4/0.25ml tubes69.945797Individual adapter for 0.2ml thermal cycling tubes69.945798

Microcentrifuge 5418/5418 R	
Microcentrifuge 5418 - 18 place rotor for 1.5/2.0ml tubes - Lid opens automatically after spinning - Very small profile, minimal bench space required - Remarkably silent, even without rotor lid - Standard, certified aerosol-tight rotor - Convenient Eppendorf two-dial operation - rpm/rcf converter - Short-spin	Eppendorf
Microcentrifuge 5418 R, with additional features: - The patented compressor technology reduces vibration to a minimum - Temperature range: 0°C to +40°C - Low access height of 26cm - Keeps a constant 4°C at max. speed - Fast Temp for rapid pre-cooling of the centrifuge	
Specifications	
Max. RCF: 16 873xg	
Max. speed: 14 000rpm	
Max. capacity: 18 x 1.5/2.0ml	
Cooling temperature 5418 R: 0 to +40°C	
Timer: 30sec to 9:59h, with continuous run	
Power consumption	
5418: 170W	
5418 R: 320W	
Dimensions (WxDxH)	
5418: 210 x 300 x 210 mm	
5418 R: 300 x 460 x 250 mm	
Weight	
5418: 7.7kg	
5418 R: 22kg	
Power supply: 230V, 50/60Hz	
Type Description	PK Cat. No.
5418 incl. Rotor F-45-18-11	1 9.776 700 <mark>1</mark>
5418 R incl. Rotor F-45-18-11, with cooling	1 9.776 702
	1 9.770 702



1 Microcentrifuge 54	424/5424 R		NEW
Microcentrifuge 5424 - 24-place-centrifuge - aerosol tight rotors - 4 different rotors - very quiet in operation, even - Choice of analogue dial or me - adjustable soft ramp acceleration Microcentrifuge R 5424, add	embrane keypad control ition litional features:		Eppendorf
 Temperature range: -9°C to Small footprint and low acces Keeps a constant 4°C at max 	s height of 26cm . speed		
- Fast temp for rapid pre-cooli	ng of the centrifuge, for example, from about 21°C to 4°C in 8 mins.		
Specifications			
Max. RCF			
5424:	20238 x g		
5424 R:	21130 x g		
Max. speed			
5424:	14680rpm		
5424 R:	15000rpm		
Max. capacity:	24 x 1.5/2ml		
Cooling temperature 5424 R:	-10 to +40°C		
Timer:	30sec to 9:59h, with continuous run		
Power consumption	Josec to 9.39h, with continuous full		
5424:			
	250W		
5424 R:	350W		
Dimensions (WxDxH)			
5424:	240 x 320 x 230mm		
5424 R:	290 x 480 x 260mm		
Weight			
5424:	13.4kg		
5424 R:	21kg		
Power supply:	230V, 50/60Hz		
Туре	Description	РК	Cat. No.
5424	with control knobs, with rotor	1	9.776 710
5424	with foil keypad, with rotor	1	9.776 711
5424	with control knobs, without rotor	1	9.776 712
5424	with foil keypad, without rotor	1	9.776 713
5424 R	with control knobs, with rotor, aerosol-tight		9.776 762
5424 R 5424 R	with foil keypad, with rotor, aerosol-tight with control knobs, without rotor		9.776 760 9.776 763
5424 R	with foil keypad, without rotor		9.776 761
Standard rotor FA 45-24-11	with lid, aerosol tight		9.776 724
Fixed angle rotor FA 45-24-11	with lid	1	
Other rotors available on request.			



Eppendorf

6. Distillation, separation, filtration Separating, centrifuging/Benchtop centrifuges



1 Microcentrifuge 5430/5430 R

Microcentrifuge 5430

- Choice of 8 different rotors, e.g. MTP rotor, Falcon rotor for max. versatility
- 48 place centrifuge for 1.5ml/2.0ml micro test tubes, 6 x 50ml Falcon® tubes or 2 x MTP plates
- Unique 30 130xg
- Automatic rotor recognition
- Stores up to 50 routine programs
- Menu guided operation in 4 different languages
- Automatic lid opening following application sequence (only 5430)

Microcentrifuge 5430 R, additional features:

- Temp. range: -11°C to +40°C
- +4°C at max. speed with all rotors
- Continues cooling after the centrifugation process
- Fast Temp for achieving required temperature in shortest possible time
- Fast Temp pro for having the centrifuge refrigerated and ready-for-use at your desired pre-set time

Specifications Max. RCF Max. speed: Max. capacity: Cooling temperature 5430 R: Timer: Power consumption 5430: 5430 R: Dimensions (WxDxH) 5430: 5430 R: Weight 5430:

5430 R: Power supply: 30130 xq 17500rpm 48 x 1.5/2.0ml or 6 x 50ml or 2 x MTP -11 to +40°C 30sec to 9:59h, with continuous run

475 W 1050 W

330 x 420 x 250 mm 380 x 640 x 290 mm

29 kg 56 kg 230V, 50/60Hz

Туре Description

5430	without rotor, with membrane keypad	1 9.776 731
5430	without rotor, with dial setting	1 9.776 732
5430	with rotor FA-45-30-11	1 9.776 730
5430	with rotor FA-45-30-11, with dial setting	1 9.776 733
5430 R	without rotor, with membrane keypad	1 9.776 734
5430 R	without rotor, with dial setting	1 9.776 735
5430 R	with rotor FA-45-30-11, with membrane keypad	1 9.776 736
5430 R	with rotor FA-45-30-11, with dial setting	1 9.776 737

Rotors for microcentrifuge 5430/5430 R

NEW

Cat. No.

PK

Rotor lids included.

FA-45-48-11: Standard rotor for 48 x 1.5/2.0ml tubes, aerosol-tight, Eppendorf QuickLock® closure F-45-48-11: Rotor for 48 x 1.5/2.0ml tubes

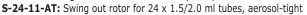
FA-45-16-17: Fixed angle rotor for 16 x Eppendorf Tubes[®] 5.0 ml, aerosol-tight, Eppendorf QuickLock[®] closure FA-45-30-11: Fixed angle rotor, 30 x 1.5/2.0ml tubes, incl. aluminium lid, coated, aerosol-tight. Rotor is autoclavable (20min, 121°C)

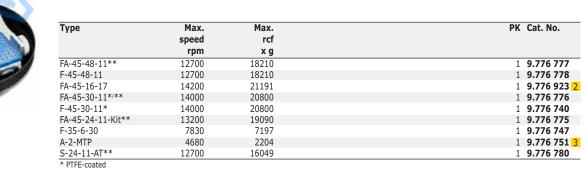
F-45-30-11: Fixed angle rotor, 30 x 1.5/2.0ml tubes, coated, aerosol-tight. Rotor is autoclavable (20min, 121°C) FA-45-24-11-Kit: Kit-Rotor for 24 Spin Columns or 1.5/2.0ml tubes, aerosol-tight.

Rotor for centrifugation with open tube lids

F-35-6-30: Falcon[®] rotor for 6 x 15/50ml tubes, incl. adapter

A-2-MTP: Swing out rotor for MTP or PCR plates, incl. 2 x MTP buckets, max. loading height 29mm





aerosol-tight, PTFE-coated *incl. 2 MPT-supports

3

9.776 923

9.776 751

Benchtop centrifuges, 5804	/5804 R and 5810/5810 R	NEW
	enchtop centrifuges and rotors tailored to research and clinical work ates a variety of tube lengths	Eppendorf
- Low noise level		
- Motorized lid lock		
 Reliable cooling at maximum speed* 		
- Imbalance detector		
	or performance parameters and prevents these being exceeded	
- Optional user setting by speed, rcf o		
 Values can be changed during centri Temperature setting from -9°C to +4 		
- Standby cooling*		
- Selectable programme memory for u	ip to 34 individual user programmes	
- Short-spin function, speed can be pr		
- Fast-cool function*for rapid cooling	of the centrifuge chamber	
- 10 gentle acceleration and braking p	rofiles for sensitive sample material	
Specifications		
Max. RCF:	20913 x g	
Max. speed:	14000	
Max. Load		
5804/5804 R:	10 x MTP or 2 x DWP	
5810/5810 R	16 x MTP or 4 x DWP	
Power consumption		
5804:	750W	
5804 R:	1.350W	
5810:	850W	
5810 R:	1.350W	
Dimensions (WxDxH)		
5804:	470 x 550 x 340mm	
5804 R:	640 x 550 x 340mm	
5810: 5810 R:	540 x 610 x 350mm	
Weight	700 x 610 x 350mm	
5804:	55kg	
5804 R:	80kg	
5810:	68kg	
5810 R:	99kg	
Mains supply:	230 V, 50/60 Hz	
Description		PK Cat. No.
Centrifuge 5804, without rotor		1 9.776 400 1
Centrifuge 5804 R, without rotor		1 9.776 401 2
Centrifuge 5804 with rotor S-4-72 and 15/5 Centrifuge 5804 with rotor A-4-44 and 15/5		1 9.776 396 1 9.776 406
Centrifuge 5804 with rotor A-4-44 and 15/5 Centrifuge 5810, without rotor		1 9.776 406 1 9.776 404
Centrifuge 5810 R, without rotor		1 9.776 405
Centrifuge 5810 with rotor S-4-104 and 15		1 9.776 398
Centrifuge 5810 with rotor A-4-62 and 15/5		1 9.776 408
Centrifuge 5810 with rotor A-4-81 and 15/5	ionn auapter for conical tubes	1 9.776 409

*Cooled models 5804 R and 5810 R only



NEW

Manual centrifuge HAND CENTRIFUGE (NEW Maintenance-free, bench-mounted manually operated centrifuge Hettich This convenient centrifuge can be easily clamped to a bench or table, and operated without electricity. Its self-lubricating gear makes it virtually maintenance-free. 1 Specifications Max. RCF: 13000 x g Max. speed: 3000rpm Max. capacity: 4 x 15ml Dimensions (WxDxH): 140 x 175 x 285mm Weight: approx. 0.9kg 9.943 004 Description PK Cat. No. î Manual centrifuge, without rotor 6.050 054 Manual centrifuge, with rotor 4 x 15ml conical tubes 1 9.943 004 1 Rotor 4 x 15ml conical tubes 6.202 087 Rotor 4 x 15ml conical or round bottom tubes (max. length of 125mm and max. diam. 17mm) 6.233 904

Benchtop centrifuges EBA 200/EBA 200 S

The practical and handy EBA 200 and EBA 200 S are supplied with an 8-place angle rotor. Designed for small sample throughput, they are ideal for use in doctors' surgeries or in large laboratories as auxiliary equipment. With impulse key for short centrifuging, one-hand lid locking and lid holding. Easy entry of the parameters time and speed (rpm) via foil keypad. Actual values are displayed during centrifugation. Various tubes (incl. glass tubes) can be centrifuged without an adapter. Adapters for additional blood collection tubes are available on request. Model EBA 200 S is supplied with adapters for 13 x 75mm Vacutainers (1.6ml to 5ml).

Specifications Max. RCF		2
EBA 200:	3461xg	
EBA 200 S:	6153xg	
Max. speed EBA 200:	6000rpm	
EBA 200 S:	8000rpm	CARSUN /
Max. capacity:	8 x 15ml	
Timer:	1 to 99min, continuous run, short cycle mode (impulse key)	A DESCRIPTION OF THE OWNER OWNER OF THE OWNER OWNE
Power consumption		10 00
EBA 200:	55 W	
EBA 200 S:	80 W	and the second se
Dimensions (WxDxH):	262 x 352 x 228mm	
Weight		-
EBA 200:	approx. 8kg	The second
EBA 200 S:	approx. 10kg	T I MARKET
Power supply:	200 - 240V, 50/60Hz	
		6.265 303

Туре	Description	PK Cat. No.
EBA 200	with angle rotor	1 6.265 303 2
EBA 200 S	with angle rotor	1 9.943 479
Accession av	silable on request	

Accessories available on request.

Benchtop centrifuge EBA 270 The EBA 270 is a small centrifuge with a 90 degree swing-out rotor. It accepts common blood or urine tubes up to a volume of 15 ml Hettich and accelerates them to a maximum speed of 4.000rpm. Stainless steel chamber for easy cleaning, decontamination and maintenance. With microprocessor controling, impulse key for short time centrifuging, one-hand lid closure and lid lock. Adjustable foil keypad with easy-to-read, multi-view digital display. Indication of the actual state during the run. Unit comes complete with 6-tube rotor and tube carriers (10ml and 15ml). 1 Specifications Max. RCF: 2254xg Max. speed: 4000rpm Max. capacity: 6 x 15ml 1 to 99min, continuous run, short cycle mode (impulse key) Timer: Power consumption: 80W Dimensions (WxDxH): 326 x 389 x 239mm Weight: approx. 14kg Power supply: 200 - 240V, 50/60Hz 12 6.242 287 PK Cat. No. Туре Description EBA 270 with swing-out rotor 1 6.242 287

2 Benchtop centrifuge ROTOFIX 32 A

Microprocessor-controlled benchtop centrifuge with a comprehensive and versatile range of accessories. 11 exchangeable rotors	Hettich
enable a multitude of applications. With frequency drive, impulse key for short period centrifuging, lid locking and holding.	
An "rcf" key allows display of the rcf during operation, while the key is pressed. Easy entry of rpm (speed) and time via foil keypad.	
Actual values are displayed during centrifugation.	

Specifications Max. RCF: Max. speed: Max. capacity: Timer: Power consumption: Dimensions (WxDxH): Weight: Power supply:	4226xg 6000rpm 4 x 100ml/32 x 15ml 1 to 99min, continuous run, short cycle mode (impulse key) 180W 366 x 430 x 257mm approx. 23kg 208 - 240V, 50/60Hz	
Type Description	on	PK Cat. No.

Туре	Description	PK	Cat. No.
ROTOFIX 32 A	without rotor	1	9.943 119
1624	Swing-out rotor for max. 4 x 100ml or 4 slide preparations, without carriers	1	9.943 386
1481	Round carrier 100ml fitting into swing-out rotor 1624	1	9.943 339
Additional accessories	on request.		

NEW!

1	Microlitre centrifuges MIKRO 2	00/200 R	NEW
	Refrigerated and non-refrigerated, high-p		Hett
1		equency drive, microprocessor control with	
		or short centrifuging, powered lid locking and "open	
		ob. A switch key enables entry/display of rpm (speed	
And the second		ugation. The refrigerated MIKRO 200 R allows chamb	
	maintains the set temperature between r	I function it refrigerates to +4°C in 10 to 15 minutes uns.	. The "stand-by" mode
	Specifications		
- 8812 V	Max. RCF:	21382xg	
	Max. speed:	15000rpm	
9.943 118	Max. capacity:	30 x 0.2 to 2ml	
	Cooling temperature Mikro 200 R:	-10 to +40°C	
	Timer:	1sec to 99min : 59sec, continuous run, short	cvcle mode
2		(impulse key)	,
	Power consumption		
Concer of the	MIKRO 200:	240 W	
	MIKRO 200 R:	360 W	
	Dimensions (WxDxH)		
	MIKRO 200:	275 x 344 x 260mm	
	MIKRO 200 R:	281 x 547 x 260mm	
	Weight		
6.237 606	MIKRO 200:	approx. 11.5kg	
	MIKRO 200 R:	approx. 28kg	
	Power supply:	200 - 240V, 50/60Hz	
ype Description		NO	PK Cat. No.
IKRO 200 without rotor			1 9.943 112
IIKRO 200 R refrigerated, w			1 9.943 118
424-B Angle rotor for	24 x 1.5/2.2 ml ml microtubes with standard lid		1 6.237 60

2424-B 2428 Angle rotor for 24 x 0.2 to 2ml microtubes with filter insert

Additional accessories on request.



100		

1 9.943 327 4

9.943 477

1

Hettich

Microlitre centrifuges with outstanding performance characteristics. Model MIKRO 220 accommodates 9 alternative rotors, the refrigerated version MIKRO 220 R takes 13 alternative rotors. The MIKRO 220/220 R feature frequency drive, microprocessor control and impulse key for short period centrifuging. Extremely short acceleration and deceleration times, easy entry of the parameters via a foil keypad and digital display. As necessary, a switch key enables entry/display of rpm (speed) or rcf. 10 complete running programmes can be stored and recalled. The refrigerated MIKRO 220 R can control chamber temperature between -20 and +40°C.

Specificatio	ons	
Max. RCF:		31514xg
Max. speed:		18000rpm
Max. capacit	cy:	60 x 0.2 to 2ml
		or 6 x 50ml (MIKRO 220 R only)
Cooling tem	perature MIKRO 220 R:	-20 to +40°C
Timer:		1 sec to 99 min : 59 sec, continuous run, short cycle mode (impulse key)
Power consu	Imption	
MIKRO 220:		240 W
MIKRO 220	R:	360 W
Dimensions	(WxDxH)	
MIKRO 220:		330 x 420 x 313mm
MIKRO 220	R:	330 x 650 x 313mm
Weight		
MIKRO 220:		approx. 42kg
MIKRO 220	R:	approx. 21kg
Power suppl	y:	200 - 240V, 50/60Hz
Туре	Description	PK Cat. No.
MIKRO 220	without rotor	1 9.943 250
MIKRO 220 R	refrigerated, without rotor	1 9.943 251

9.943 327

9.943 250

refrigerated, without rotor MIKRO 220 R 1195-A Angle rotor for 24 x 0.2 to 2ml microtubes with bio-containment lid

Additional accessories on request.

2 Benchtop	centrifuges UNIVE	RSAL 320/320 R	1 1
The UNIVERSAL 32 speed ranges, and process standard tu and cyto accessorie UNIVERSAL 320/32 quick-entry foil key complete running p	0/320 R impress with exc versatile, easily exchange ubes up to a volume of 10 es. Microlitre tubes can be 20 R centrifuges. With frec pad and digital display. As	ellent performance in both the high and low able accessories. At low speeds, they Oml, microtitre plates, conical tubes with screw cap, blood collection tubes accelerated to an rcf of 21382. A selection of 19 rotors is available for the uency drive, microprocessor control, impulse key for short centrifuging, necessary, a switch key enables entry/display of rpm (speed) or rcf. Ten and recalled. Temperature in the refrigerated UNIVERSAL 320 R is	
Specifications			Concerne P
Max. RCF:		21382xq	
Max. speed:		15000rpm	9.943 121
Max. capacity:		4 x 100ml/32 x 15ml	
. ,	re UNIVERSAL 320 R:	-20 to +40°C	
Timer:		1sec to 99min : 59 sec, continuous run, short cycle mode (impulse key)	
Power consumption	I		
UNIVERSAL 320:		400W	
UNIVERSAL 320 R:		800W	
Dimensions (WxDx	H)		
UNIVERSAL 320:	,	395 x 520 x 346mm	
UNIVERSAL 320 R:		401 x 695 x 346mm	
Weight			
UNIVERSAL 320:		approx. 31kg	
UNIVERSAL 320 R:		approx. 53kg	
Power supply:		200 - 240V, 50/60Hz	
Туре	Description	$\langle O \rangle$	PK Cat. No.
UNIVERSAL 320	without rotor		1 9.943 120
UNIVERSAL 320 R	without rotor, with refrige		1 9.943 121 1
1494		4 x 100ml without carriers	1 9.943 399
1624	Swing-out rotor for max.	4 x 100ml or 4 slide preparations without carriers	1 9.943 386

Additional accessories on request.

4 Benchtop centrifuges ROTINA 380/380 R

High-performance, benchtop centrifuges with a comprehensive range of accessories especially for applications in the fields of diagnostics, genetics and microbiology. Both models offer a choice of 11 rotors. With frequency drive, microprocessor control

Both models offer a choice of 11 rotors. With frequency drive, microprocessor control, impulse key for short centrifuging and powered lid locking. The advanced C control panel significantly facilitates daily laboratory routine. Parameter selection is done via the use of symbol keys. Values are set with the control knob, and recorded by pressing the Start key. Digital display. As necessary, a switch key enables entry/display of rpm (speed) or rcf. With 98 programmable memories. Temperature within the chamber of the refrigerated ROTINA 380 R is controllable within a range of -20 to +40°C. The temperature can also be set in degrees Fahrenheit.

Specifications		
Max. RCF:	24400xg	
Max. speed:	15000rpm	-
Max. capacity:	4 x 290ml	
Cooling temperature ROTINA 380 R:	-20 to +40°C	
Timer:	1sec to 99min : 59sec, continuous run, short cycle mode (impulse key)	
Power consumption		
ROTINA 380:	650 W	4
ROTINA 380 R:	1150 W	_
Dimensions (WxDxH)		A. 20
ROTINA 380:	457 x 600 x 418mm	CO
ROTINA 380 R:	457 x 750 x 418mm	
Weight		1
ROTINA 380:	approx. 51kg	U.
ROTINA 380 R:	approx. 81kg	-
Power supply:	200 - 240V, 50/60Hz	
	, ·	

Туре	Description	PK Cat. No.
ROTINA 380	without rotor	1 9.943 129 3
ROTINA 380 R	without rotor, with refrigeration	1 9.943 130
1754	Swing-out rotor for max. 4 x 290ml without carriers	1 9.943 467
1752	Round carrier 290ml for swing-out rotor 1754	1 9.943 468

(NEWI) 3

Hettich



9.943 129



NEW

NEW

1 The compact bench high sample volume 16 microtitre plates facilities. With frequ The advanced C cor use of symbol keys. 98 programmable n of -20 to +40°C. Th

9.943 126



2 Benchtop centrifuges ROTINA 420/420 R

The compact benchtop centrifuges are designed both for high sample throughput and high sample volumes. With a max. capacity of 4 x 600ml, 140 blood collection tubes or 16 microtitre plates they are ideal for applications in clinical chemistry, in biotechnology and in life science research facilities. With frequency drive, microprocessor control and impulse key for short centrifuging and motorised lid locking. The advanced C control panel is ideal for daily routine tasks in the laboratory. Parameter selection is achieved via the use of symbol keys. Values are set with the control knob, and recorded by pressing the Start key. Digital display. 98 programmable memories. Temperature in the refrigerated ROTINA 420 R is adjustable within a range of -20 to +40°C. The temperature can also be set in degrees Fahrenheit.

Specifications Max. RCF: Max. speed: Max. capacity: Cooling temperature ROTINA 420 R: Timer:

Power consumption ROTINA 420/420 R: Dimensions (WxDxH) ROTINA 420/420 R: Weight ROTINA 420/420 R: Power supply: 24400xg 15000rpm 4 x 600ml -20 to +40°C 1sec to 99h : 59 870W/1500W

1sec to 99h : 59min : 59sec, continuous run, short cycle mode 870W/1500W 506 x 650 x 423mm/713 x 654 x 423mm approx. 75kg/approx. 108kg 200 - 240V, 50/60Hz

Туре	Description		PK Cat. No.
ROTINA 420	without rotor		1 9.943 125
ROTINA 420 R	without rotor, with refrigeration		1 9.943 126 1
4784-A	Swing-out rotor for max. 4 x 600ml or 16 microtitre plates without carriers		1 9.943 475
Additional accessories	on request.	NO	



9.943 150



Centrifuges ROTANTA 460 series

Developed for large volumes, the model offers frequency drive, microprocessor control, impulse key for short centrifuging, and powered lid locking. As necessary, a switch key enables entry/display of RPM (speed) or RCF. All ROTANTA 460 models feature the extended C control panel, which provides up to 98 programmable memories. Temperature in the refrigerated ROTANTA 460 R is controllable within a range of -20°C to +40°C. The refrigerated ROTANTA 460 R can also be supplied in an underbench version or as a floorstanding model.

Without rotors. Please order separately.

Specifications	
Max. RCF:	24400xg
Max. speed range:	15000rpm
Max. capacity:	4 x 750ml
Cooling temperature Rotanta 460 R:	-20 to +40°C
Timer:	1sec to 99h : 59min : 59sec, continuous run, short cycle mode
Power consumption	
ROTANTA 460/ROTANTA 460 R,RC,RF:	1000W/1600W
Dimensions (WxDxH)	
ROTANTA 460:	554 x 706 x 456mm
ROTANTA 460 R:	770 x 706 x 456mm
ROTANTA 460 RC:	554 x 697 x 683mm
ROTANTA 460 RF:	554 x 697 x 961mm
Weight	
ROTANTA 460:	approx. 101kg
ROTANTA 460 R,RC:	approx. 141kg
ROTANTA 460 RF:	approx. 164kg
Power supply:	200 - 240V, 50/60Hz

Туре	Description	PK Cat. No.
ROTANTA 460	Benchtop centrifuge, classic	1 9.943 150 3
ROTANTA 460 R	Benchtop centrifuge, cooled	1 9.943 152
ROTANTA 460 RC	Underbench centrifuge, cooled	1 9.943 154
ROTANTA 460 RF	Floorstanding centrifuge, cooled	1 9.943 155
5699	Swing-out rotor for max. 4 x 750ml or 4 blood bag systems 450ml	1 9.943 474 4
4880	Round carrier with single-hand clamp lock for max. 750 ml for swing-out rotor 5699	1 9.943 486
4883	Lid with bio-containment for round carrier 4880	1 9.943 487
Additional accessories of	n request.	

640

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Hermle

PK Cat. No.

1

1

1

1

1

1

7.660 217 1

1 6.231 520

6.230 074

9.945 933

9.945 715

9.945 716

9.945 717

9.945 922

9.945 718 2

7.660 218 3

Microlitre centrifuge Z 216 M/Z 216 MK

The Z 216 M and Z 216 MK are setting new standards in this centrifuge class. Capable of centrifuging up to 44 x 1.5/2.0 ml at each run. Due to their compact design and quiet running properties they are fitting perfectly in their working area. The powerful refrigeration system of Z 216 MK keeps samples at temperatures as low as 4°C during a continuous run at 20000 xg.

Specifications:

- Maintenance-free induction drive
- Microprocessor with large LCD Display
- Motor driven lid lock
- Active imbalance-identification and cut off
- Standstill cooling
- Audible signal at the end of each run
- Rapid acceleration and deceleration (see rotor data)
- Lowest sample temperature 4°C at 20000xg
- Noise level < 60 dBA at 20000xg
- Extremely compact with a space saving footprint
- Quick access to samples with a snap on lid
- Aerosol tight rotor option
- Manufactured according to international safety regulations, i.e. IEC 61010

Z 216 M/Z 216 MK

59min 50sec/10sec increments

280 x 390 x 290mm/280 x 550 x 290mm

99h 59min/1min increments

21380xg 15000rpm

44 x 1.5/2.0ml

-20 to 40°C

17kg/35kg 230V, 50/60Hz

560W

- Distinct control panel

Specifications

Max. RCF: Max. speed: Max. capacity: Cooling temperature Z 216 MK: Timer:

Power consumption: Dimensions (WxDxH): Weight: Power supply:

Description

Microlitre centrifuge Z 216 M Refrigerated microlitre centrifuge Z 216 MK Refrigerated microlitre centrifuge Z 216 MK incl. angle rotor Microlitre centrifuge Z 216 MK incl. rotor V14, 24 x 1,5/2,0 ml cooled Angle rotor 24 x 1.5/2.0ml Angle rotor 24 x 1.5/2.0ml, hermetically sealed Angle rotor 30 x 1.5/2.0ml, hermetically sealed Angle rotor 12 x 5ml, closable Angle rotor for 4 x 8 PCR Stripes Angle rotor for 12 x 5ml reaction vessels, closable



7.660 217



2

9.945 718



7.660 218

6. Distillation, separation, filtration











Compact centrifuge Z 206 A

Compact centrifuge for physicians and clinical laboratories.

Hermle

The Z 206 A accepts up to 12 x 15ml conical and round bottom tubes. For tubes with smaller dimensions we offer several adapters. For larger volumes we offer an angle rotor for 6 x 50ml conical and round bottom tubes.

- Microprocessor with LCD display
- Electrical lid lock
- Pre-selection of the rotor type
- Active imbalance-identification and cut off
- Manufactured according to international safety regulations, i.e. IEC 61010
- Noise level under 60dBA at max. speed
- A large variety of rotors and accessoires
- Easy change of rotors

Distinct control panel

Specifications	
Max. RCF:	4180xg
Max. speed:	6000rpm
Max. capacity:	6 x 50ml
Timer:	59min 50sec/10sec increments
	99h 59min/1min increments
Power consumption:	100W
Dimensions (WxDxH):	280 x 370 x 260mm
Weight:	15kg
Power supply:	230V, 50/60Hz

Description	PK	Cat. No.
Compact centrifuge Z 206 A	1	9.945 737 <mark>3</mark>
Compact centrifuge Z 206 A incl. angle rotor 12x15ml	1	9.945 738
Angle rotor 12 x 15ml	1	9.945 728 4
Angle rotor 6 x 50ml	1	9.945 729
Angle rotor 18 x 1.5/2.0ml	1	9.945 739
Swing out rotor 6 x 5ml	1	9.945 740 5

6. Distillation, separation, filtration

Separating, centrifuging/Benchtop centrifuges



2

Volume

ml

12

25

50



1 Centrifuge tubes, round bottom, DURAN[®]

To DIN 58970 part 2. Glass Type I/neutral glass as per USP, EP and JP. Autoclavable. Maximum loading: 4000xg rcf. DURAN Group

DURAN Group

Cat. No.

9.315 509

9.315 514

9.315 517

PK

1

Capacity	Diam.	Height	PK Cat. No
ml	mm	mm	
6	12	100	1 9.315 01
12	16	100	1 9.315 01
25	24	100	1 9.315 01
50	34	100	1 9.315 01
80*	40	115	1 9.315 02
80	44	100	1 9.315 02
250*	56	147	1 9.315 03
* Not to DIN.			







High speed centrifuge tube, borosilicate glass

Centrifuge tubes, conical, DURAN®

Height

mm 100

100

100

Diam.

mm

16

24

34

Autoclavable. Rimless, with conical base. Maximum loading: 4000xg rcf.

Angle

30

60

60

Borosilicate glass. The tubes have been chemically strengthened to achieve a greater mechanical strength than standard borosilicate centrifuge tubes. These tubes can be centrifuged up to 13.100 RCF when used with an accessory rubber adapter sleeve in a 50ml rotor cavity. They can withstand temperatures up to 300°C. Autoclavable.

Volume	Diam.	Height	Description	PK Cat. No.
ml	mm	mm		
15	18	102	without rim	6 6.803 323
30	24	106	without rim	6 6.093 022
15	18	102	screw thread	6 7.920 120 <u>3</u>
30	24	106	screw thread	6 6.234 247
			Rubber adapter, 15ml	2 6.803 324
			Rubber adapter, 30ml	2 6.803 325 4

5 Centrifuge tubes, glass, round bottom, graduated, DURAN[®]

In white enamel, rimless. Maximum loading: 3500xg rcf.

Volume	Diam.	Height	PK	Cat. No.
ml	mm	mm		
10 - 15	17	98	1	9.315 237
10 - 15	17	107	1	9.315 240
25	25	100	1	9.315 245

6 7 Centrifuge tubes, round bottom, AR glass[®]

Round bottom. Graduated or ungraduated. Maximum loading: 3500xg rcf.

Volume	Diam.	Height	Graduations	РК	Cat. No.
ml	mm	mm			
10 - 15	17	98	no	1	9.315 201
10 - 15	17	107	no	1	9.315 203
10 - 15	17	98	yes	1	9.315 217
10 - 15	17	107	yes	1	9.315 220
25	25	100	yes	1	9.315 225
50 - 55	35	98	no	1	9.315 207
70 - 100	40	115	no	1	9.315 210



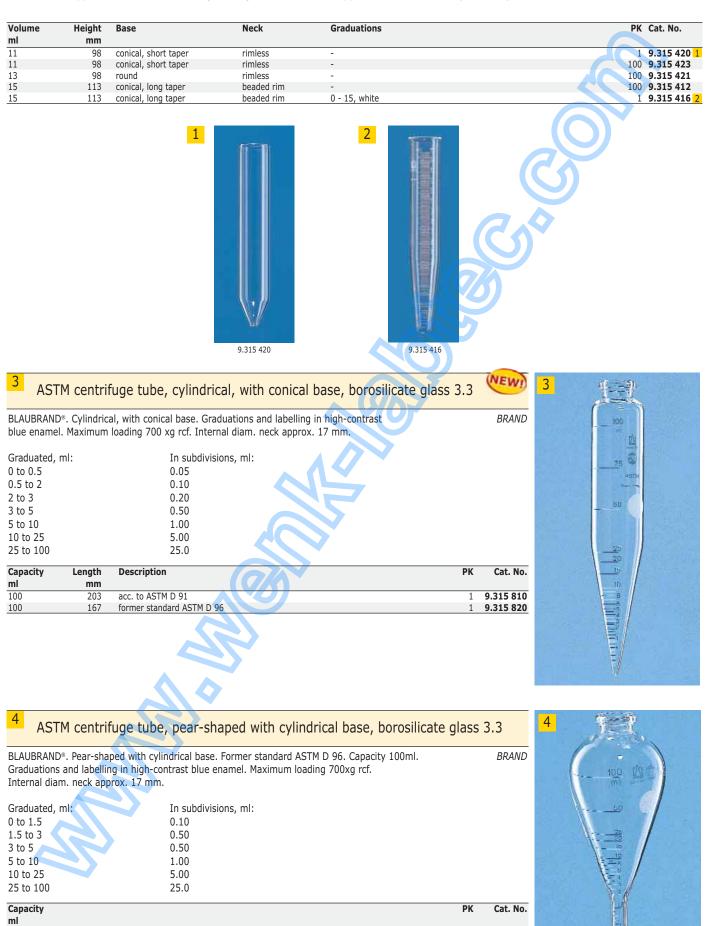
E& OE. www.wenk-labtec.com

Centrifuge tubes, AR glass®

100

Wall thickness approx. 1mm. Maximum loading: 3500xg rcf. Outer diameter approx. 17mm. Graduation (9.315 416) 0.1ml.

BRAND



9.315 815

NE

6. Distillation, separation, filtration

Separating, centrifuging/Centrifuge tubes



1 LLG-Microcentrifuge tubes, PP

LLG Microtubes cover standard volumes for a variety of sample tests. They are available in 0.5ml, 1.5ml and 2.0ml volumes. These standard Microtubes withstand high centrifugal forces, are temperature and chemical-resistant and guaranteed against leaks. An innovative and modern new generation of Microtubes with new features. Perfect sealing qualities, excellent chemical stability and optimal construction materials guarantee even better resistance to centrifugal and chemical forces. Easy to open and to close thanks to the improved lid geometry. For visual volume control the 1.5ml tubes are equipped with graduations at 0.5ml, 1.0ml and 1.5ml. The 2.0ml tubes have graduations at 0.5ml, 1.0ml, 1.5ml and 2.0ml. The 0.5ml tubes are without graduations. Certified DNase-, RNase- and pyrogen free.

Non sterile, clear, in bags. Certified free of DNase, RNase, suitable for microbiology. Guaranteed metal-free.

Specifications Autoclavability Temperature: Pressure: Time: Centrifugation	121°C (250°F) 1.05 bar or 15 psig (pounds) 20 min or less	
Fixed angle rotor:	25000xg	
Swing out rotor:	70000xg	
Volume Form	PI	Cat. No.
ml		
0.5 conical	100	9.409 023
1.5 conical	100	9.409 024
2.0 round	100	9.409 025



LLG-Centrifuge tubes, PP 2

Polypropylene tubes with very good thermal, mechanical and chemical stability. Sterile tubes fitted with screw-on closure. Packed in boxes or bags. With graduations and labelling area. Cytotoxicity-free, DNase/RNase- and human DNA-free.

Centrifugation capacitiy (Max. RCF):			:	6000 x g		
Capacity	Diam.	Height	Form	Description	РК	Cat. No.
nl	mm	mm				
15	17.0	120	conical	sterile, single packed	50	9.316 062
15	17.0	120	conical	non-sterile	500	9.316 063
50	30.0	120	conical	sterile, single packed	50	9.316 064
50	30.0	120	conical	non-sterile	500	9.316 065
50	30.0	120	with rim	sterile, single packed	50	9.316 067
50	30.0	120	with rim	non-sterile	50	4.008 506

5 LLG-Test and centrifuge tubes rimmed, PS or PP 4

- Made of ultra clear virgin polypropylene or virgin polystyrene
- Polystyrene tubes are transparent. Polypropylene tubes are opaque, break-resistant
- Tubes with cap are ethylene oxide sterilized
- With label

LLG-Dual-Position Caps for test- and centrifuge tubes, PE

- For culture tubes with an O.D. of 12 mm and 17 mm
- 2 locking positions possible
- Closed , but gas exchange is still possible for aerobic growth conditions
- Hermetically sealed for anaerobic growth conditions, for storage or despatch of samples or for centrifugation

Capacity	Diam.	Height	Description	Material	Max.	Max.	РК	Cat. No.
						temp.		
ml	mm	mm			rcf	°C		
4.0	12.0	75	with rim	PS	1400	80	500	6.265 657
4.0	12.0	75	with rim	PP	3000	120	500	6.265 658
12.0	17.0	100	with rim	PS	3000	80	250	6.265 659
12.0	17.0	100	with rim	PP	5500	120	250	6.265 660
4.0	12.0	75	with dual-position-cap, sterilized	PS	1400	80	500	6.265 661
4.0	12.0	75	with dual-position-cap, sterilized	PP	3000	120	500	6.265 662
12.0	17.0	100	with dual-position-cap, sterilized	PS	3000	80	500	6.265 663
12.0	17.0	100	with dual-position-cap, sterilized	PP	5500	120	500	6.265 664
	12.0		dual-position-cap	PE	-		1000	6.265 665
	17.0		dual-position-cap	PE	-		1000	6.265 666







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1

Test tubes and centrifuge tubes, PP 1

Round bottom.

Round botto	Round bottom.		Greir	ner Bio-One
Capacity	Diam.	Height	РК	Cat. No.
ml	mm	mm		
4.0	12.0	55	3600	9.400 615
5.0	12.0	75	2000	9.400 632
12.0	16.0	100	1600	9.400 664
14.0	17.0	100	1500	9.400 665

2 Test tubes and centrifuge tubes, PS

Capacity	Diam.	Height	Description	PK	Cat. No
ml	mm	mm			
2.0	10.5	40	round bottom	3000	9.400 50
3.5	11.0	63	round bottom	3000	9.400 52
4.0	11.0	70	round bottom	2880	9.400 53
4.0	12.0	55	round bottom	3600	6.510 40
5.0	12.0	75	round bottom	2000	9.400 53
10.0	14.0	100	round bottom	1400	9.400 56
12.0	16.0	100	round bottom	1600	9.400 564
14.0	17.0	100	round bottom	1500	9.400 56
20.0	16.0	152	round bottom	1500	9.400 59
4.5	12.0	75	conical bottom	3600	9.400 90
13.0	16.5	103	conical bottom	1500	9.400 90

Graduated centrifuge tubes, conical, PP or PMP

Autoclavable. PP tubes can withstand temperatures up to +120°C. PMP (TPX®) tubes can withstand temperatures up to +170°C. Rimmed. High chemical resistance. Good transparency, especially when in contact with liquids. Cannot be used with naked flame. Can be used as conventional test tubes.

Kartell

Capacity	Diam.	Height	Grad.	Material	PK Cat. No.
ml	mm	mm	ml		
10	16	108		PP	500 9.315 832 3
15	18	120		PP	500 9.315 833
10	16	107	0.10	PP	100 6.233 811 4
15	18	118	0.20	PP	100 9.315 834
10	16	107	0.10	PMP (TPX®)	50 6.075 746 5
15	18	118	0.20	PMP (TPX®)	50 6.231 946



6 Centrifuge tubes, cylindrical, PP

Translucent. PP. Autoclavable. Can withstand temperatures up to +120°C. Rimmed. High chemical resistance. Cannot be used with naked flame. Can also be used as conventional test tubes. Canacity Diam Hoight

Capacity	Diam.	Height	PK Cat. No.	and the second
mi	mm	mm		
7	12	100.0	100 9.315 830	
16	17	101.0	500 6.204 878	
31	24	93.0	50 6.205 839	
48	30	104.0	25 6.205 674	
70	35	99.5	20 9.315 831	
110	40	119.0	25 6.205 169	122



Kartell



1 Centrifuge tubes, PP

Polypropylene tubes with very good thermal, mechanical and chemical stability. Fitted with screw-on closure. Packed in boxes or bags. With graduations and labelling area. Tubes are sterile, cytotoxicity-free, DNase/RNase- and human DNA-free.

Centrifugation capacitiy (15 - 50 ml):

Height

mm

120

120

120

115

115

115

115

115

115

Form

conical

conical

conical

conical

conical

conical

conical, with rim

conical, with rim

conical, with rim

3215 x g/4500 rpm in swing out rotors 8965 x g/9000 rpm in fixed angle rotors Greiner Bio-One

PK

50

500

1000

20

500

300

25

450

300

Cat. No.

9.380 423

7.380 423

7.053 718

9.380 421

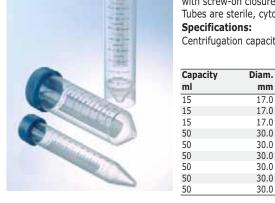
7.380 421

6.049 748

9.380 422

7.380 422

6.054 664



3 Centrifuge tubes, conical tubes, PP/PE-HD

New and improved conical tubes with the largest writing area on the market for Thermo Scientific increased traceability with additional space for labeling information. Recyclable plastic rack reduces waste in the lab. New conical tubes have higher RCF ratings, which enable more applications from low speed to super speed centrifugation. They meet USP class VI requirements and are non-cytotoxic, non-pyrogenic and RNase/DNase free. Graduated, leak proof and sterile (SAL 10⁻⁶) Material tubes: PP Material caps: PE-HD



4

Capacity	Diam.	Height		Max.	Description	PK	Cat. No.
ml	mm	mm		rcf			
15	17	120		10500 x g*	Bulk	500	9.401 430
15	17	120		10500 x g*	Racked	500	9.401 431
50	30	115		17000 x g*	Bulk	500	9.401 432
50	30	115		17000 x g*	Racked	300	9.401 433
* When fully su	nnorted by coni	cal rotor cavity	or conical a	adaptor. Note the may	imum speeds listed are quideline	only. These speeds have been a	chieved in

reliability tests based on sedimentation of 1.2 specific gravity fluid at 18°C.

Centrifuge tubes, plastic, round bottom, PC, graduated

Transparent. PC. Rimless, with moulded graduations. Slightly yellowish in colour. Round bottom. For use with loads up to 20000xg rcf. BRAND

Note: the strength of Polycarbonate is reduced when it is autoclaved or cleaned using alkaline detergents.

Volume	Diam.	Height	Grad.	PK	Cat. No.
ml	mm	mm	ml		
50	35	99	1	1	9.315 329
100	41	115	2	1	9.315 339
100	45	98	2	1	9.315 340



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Eppendorf Tubes [®] 5.0 ml, PP			NEW
 Ergonomic operation: Simple, practical and ergonomic single-hand ope Lid design: Hinged lid for minimized sample evaporation during storage 		of	Eppendorf
 temperatures from -86°C to 80°C Material: Exceptionally high-quality, transparent polypropylene, free of Certified purity: Available in lot-tested and certified Eppendorf Quality, Centrifugation safety: Maximum safety and stability for centrifugation 	PCR clean, Sterile and Eppendorf	Biopur [®] purity levels	sults
 Conical shape: Compatible with accessories for conical 15 mL tubes - r Sample recovery: Available in Eppendorf LoBind® material for maximur 	nany existing adapters and racks		\bigcirc
From 80° C on, please use the Tube Clip opener Cat. No. 9.409 294		6	
Description	Package contents	6	PK Cat. No.
Eppendorf Tubes® 5.0 mL, Eppendorf Quality™ Eppendorf Tubes® 5.0 mL, PCR clean	2 bags of 100 2 bags of 100	Θ	200 9.409 277 1 200 9.409 278
Eppendorf Tubes [®] 5.0 mL, Sterile	10 bags of 20		200 9.409 279
Eppendorf Tubes® 5.0 mL, Biopur® Eppendorf Protein LoBind Tube, PCR clean	bag of 50, single packed 2 bags of 50	0.0	50 9.409 288 100 9.409 289
Eppendorf DNA LoBind Tube, PCR clean	4 bags of 50		200 9.409 290
Eppendorf Tubes® 5.0 mL, Eppendorf Quality™, amber (light protection) Tube Clip, Eppendorf Quality™	2 bags of 100		200 6.265 214 2 10 9.409 294 3
		75	
1 2		3	
		(Ca)	
		IIIII	3.
V			
9.409 277	6.265 214	9.409 294	
4 Tube Rack for 5ml microcentrifuge tubes, PP		(NEW) 4	
Designed specifically for 40 x 5ml microcentrifuge tubes this rack will als other tubes with a diameter of 13 to 16mm. Made of durable and corrosi white polypropylene. End plates have handles for easy transport and sta	ion resistant	el-Art Products	
Steam autoclavable at 121°C	cking	New York	
Dimensions (L x W x H): 260 x 113 x 105mm Rows: 4 x 10			
No, of For tubes		PK Cat. No.	
tubes diam.		PK Cat. No.	
40 13 - 16mm		1 9.194 026	
5 Centrifuge tubes Oak Ridge Typ 3114, FEP		5	
Teflon® FEP with Tefzel® ETFE screw cap. Resistant to all acids, bases and Autoclavable Operating tomorature range -100 to +150%	d solvents. Th	ermo Scientific	
Autoclavable. Operating temperature range -100 to +150°C. Can be used brim-full in refrigerated centrifuges at up to 50000xg rcf. Le Accessory sealing cap assemblies are available for all sizes.	eak-proof.		3 🝈 🦳
Type Volume Diam. Height		PK Cat. No.	

Туре	Volume	Diam.	Height	РК	Cat. No.
	ml	mm	mm		
3114	10	16.0	81.5	1	9.315 701
3114	30	25.5	93.7	1	9.315 702
3114	50*	28.8	107.7	1	9.315 703

* Capacity: 46ml to the brim. Teflon® and Tefzel® are a registered trademark of DuPont.

6. Distillation, separation, filtration Separating, centrifuging/Centrifuge tubes

1



Centrifuge tubes Oak Ridge Typ 3115, PSU

Transparent. Polysulphone (PSU) with PP screw cap. As stable and robust as PC Thermo Scientific test-tubes, but considerably more resistant to acids and alkalis. Autoclavable. Can be used in refrigerated or ambient centrifuges at up to 50000xg rcf. Accessory sealing cap assemblies are available for all sizes. Notes: If autoclaving, the tubes must be filled to 80% of their total capacity. Polysulphone must not be used with Tween, as this causes hairline cracks to form. No.

Type	Volume	Diam.	Height		PK	Cat. No.
	ml	mm	mm			
3115	30	25.7	94.5		1	9.315 708
3115	50*	29.0	107.7		1	9.315 709
* Canacita	v: 12ml to the bri	m				

Capacity: 43ml to the brim



Nalgene[™] Oak-Ridge centrifuge tubes Type 3118, PC

Transparent. PC with PP screw cap. Can be used in suitable refrigerated or ambient Thermo Scientific centrifuges at up to 50.000xg rcf. Autoclavable. Accessory sealing cap assemblies are available for 10ml, 30ml and 50ml sizes.

Туре	Capacity	Diam.	Height	PI	К	Cat. No.
	ml	mm	mm			
3118	10	16.1	81.7		1 9	9.315 691
3118	28	25.4	101.8		1 9	9.315 692
3118	30	25.7	94.5		1 9	9.315 693
3118	50*	28.8	107.0		1 9	9.315 694
3118	85**	38.2	105.7		1 9	9.315 695
	y: 43ml to the brim.			3/07		

**Capacity: 81ml to the brim.



3 Nalgene[™] Oak-Ridge centrifuge tubes Type 3119, PP-copolymer

PP-copolymer with PP screw cap. PPCO is more resistant to chemicals than PC. Autoclavable. When wet, the translucent test-tube enables observation of the contents. Can be used in refrigerated and unrefrigerated centrifuges at up to 50.000xg rcf. Accessory sealing cap assemblies are available for all sizes.

Thermo Scientific

Туре Volume Diam. Height PK Cat. No. ml mm mm 3119 9.315 711 10 16.0 81.4 1 3119 28 25.4 101.9 9.315 712 1 9.315 713 3119 30 25.5 94.3 3119 50* * Capacity: 42ml to the brim. 106.7 28.8 9.315 714



4 Centrifuge bottles Typ 3120, PP-copolymer

PP-copolymer with PP screw cap. Autoclavable.					Therm	o Scientific
Туре	Volume	Diam.	Height	Max.	РК	Cat. No.
	ml	mm	mm	rcf		
3120	250	61.8	127.7	13,200*	1	9.315 716
3120	500	69.5	170.2	13,700	1	9.315 717
3120	500	73.8	169.8	4,800	1	9.315 720
3120	1000	97.5	184.5	7,100	1	9.315 718
3120	1000	97.7	179.0	7,100	1	9.315 719

* Up to 27500xg if using the sealing screw cap 9.315 734.

Thermo Scientific

Thermo Scientific

Thermo Scientific

Centrifuge bottles Typ 3122, PC

PC with PP screw cap. Crystal clear. Good mechanical strength. Autoclavable. Leak-proof even at low speeds.

In order to ensure that the system is leak-proof even at high speeds and when centrifuging dangerous substances, the 250ml and 1000ml sizes must be used in conjunction with sealing screw cap sets.

Туре	Volume	Diam.	Height	Max.	PK Cat. N	lo.
	ml	mm	mm	rcf		
3122	250	61.8	127.6	27.500	1 9.315 7	21
3122	500	69.5	169.6	13.700	1 9.315 7	23
3122	1000	97.6	188.4	7.100	1 9.315 7	24
3122	1000	98.1	180.2	7.100	1 9.315 7	25

Sealing cap assemblies Typ DS 3131, PP 2

PP screw cap with Tefzel® ETFE plug liner and viton O-ring. Leak-proof at recommended maximum speed and rcf for tubes. Suitable for working with aggressive chemicals. The 38mm assembly has a PP shoulder reinforcement ring to prevent collapsing of the 250ml bottles.

Туре	For tubes	Screw cap diam.	РК	Cat. No.
	ml	mm		
DS3131	30	20	1	9.315 732
DS3131	50	24		9.315 733
DS3131	250	38	1	9.315 734
Tefzel® is rec	istered tradema	rk of DuPont.		

is registered trademark of DuPont.

3

5

Sealing cap assemblies with silicone seal Typ DS 3132, PP

For Oak Ridge centrifuge test tubes made of PP, PC and polysulphone.

True				
Туре	For	Screw cap	PK	Cat. No.
	tubes	diam.		
	ml	mm		
DS3132	28 / 30	20	2	9.315 738
DS3132	50	24	2	9.315 739
DS3132	250	58	2	9.315 740
DS3132	500 / 1000	63	2	9.315 741



РР-соро	olymer with sea	aling screw	cap. Autocla	vable.	Thermo Scientific
Туре	Volume	Diam.	Height	Max.	PK Cat. No
	ml	mm	mm	xg	
3141	250	60.7	133.4	27500	1 9.315 763
3141	450	69.5	160.0	13700	1 9.315 76



Centrifuge Bottles with Sealing Cap, SuperSpeed, Types 3140, 3141

Designed to boost productivity and pellet recovery in super speed, large volume gross separation applications.

Thermo Scientific

Process one full Litre in each window-clear bottle at speeds up to 15810xg. Graduated, wide-mouth bottle simplifies decanting, re-suspensions and pellet removal. Smooth inner walls are less likely to shear delicate cells. Ideal for bacterial, yeast and tissue isolations. Improve viral harvesting in vaccine production. Reduce shearing in mammalian culture separations. PC offers excellent clarity. Ergonomic design facilitates loading, recovery and storage of samples.

Recommended operating temperature range is from 4°C to 22°C; storage to -70°C. Brim capacity is 1.055ml. Nominal Dimensions (Diam. x H): 96.52 x 195.58mm. Before autoclaving, just set closure on top of bottles without engaging the threads. For proper performance these bottles must be filled to at least 80% of the total capacity.

Туре	Capacity	Material	Diam.	Height	РК	Cat. No.
	ml		mm	mm		
3140	1000	PC	98.0	195.0	1	9.315 729
3141	1000	PPCO	97.5	195.3	1	6.236 915





LLG-Filter paper, qualitative grades

Made from 100% cellulose. Ash content 0.06%. Filtration speed according to DIN 53137. Capacity of separation according to DIN 53135.



1	LLG-Qualitativ	ve filter paper, circles		
Fast				7
Diam.	Filtration time		PK	Cat. No.
mm	secs.			
90	10	1	.00	9.045 830
110	10		.00	9.045 831
125	10	1	.00	9.045 832
150	10		.00	9.045 833
185	10	1	.00	9.045 834



2 LL	G-Qualitative fi	lter paper, circles		NEW!
Medium sp	beed	(C)		<u> </u>
Diam.	Filtration		PK	Cat. No.
	time			
nm	secs.			
12.5	50		100	9.045 820
0.0	50		100	9.045 821
10.0	50		100	9.045 822
L25.0	50		100	7.970 266
L50.0	50		100	7.970 269
L85.0	50		100	6.242 668
240.0	50		100	6.242 631
12.5	88		100	9.045 800
47.0	88		100	9.045 801
55.0	88		100	9.045 802
70.0	88		100	9.045 803
90.0	88		100	9.045 804
110.0	88		100	9.045 805
L25.0	88		100	9.045 806
L50.0	88		100	9.045 807
L85.0	88		100	9.045 808
240.0	88		100	9.045 809





3 L	LG-Oualitati	ve filter paper, folded filters	NEWI
Medium			<u> </u>
Diam.	Filtration	РК	Cat. No.
mm	secs.		
70.0	50	100	7.659 027
125.0	50	100	9.045 825
150.0	50	100	9.045 826
185.0	50	100	9.045 827
240.0	50	100	6.242 632

4 LLC	G-Qualitative fil	ter paper, circles	NEWI
Slow			$\overline{}$
Diam.	Filtration time	РК	Cat. No.
mm	secs.		
70.0	180	100	7.970 267
90.0	180	100	7.970 268
110.0	180	100	6.242 672
125.0	180	100	7.970 134
150.0	180	100	7.970 139
185.0	180	100	6.242 671



5 LLG-Qu	alitative filter	r paper, sheets	
Medium speed			
Dimensions	Filtration time	PK	Cat. No.
mm	secs.		
460 x 570	88	100	9.045 810

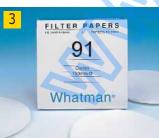
1 Filton namer Out I			
Filter paper, Grade		1	FILTER PAPERS
	e. Excellent retention of coarse and gelatinous precipitants.	GE Healthcare	TUTERWEEK OWNERFITTES
Smooth. Supplied in packs of ci			4
lowrate: Retention:	Fast High		Cicles 150mm (0
Vet strength:	Low		
hickness:	0.21mm		Whatman
Ash:	0.06%		
Diam.		PK Cat. No.	
mm		PK Cal. NO.	
42.5		100 9.056 231	
5		100 9.056 233	
70 90		100 9.056 235 100 9.056 196	
110		100 9.056 230	
25		100 9.056 232	
150 185		100 9.056 234 100 9.056 236	
240		100 9.056 237	
320		100 9.056 239	
460 x 570		100 9.056 334	
_			
2 Filter paper, Grade	e 113	2	
	xcellent retention of coarse and gelatinous precipitates, creped.	GE Healthcare	FILTER PAPERS
			113
Flow rate:	Fast		Croles TSomm D
Retention:	Medium		150mm D
Wet strength:	High		Whatman*
Thickness: Ash:	0.42mm 0.06%		
4511.	0.06%		
Diam.		PK Cat. No.	
mm 90		100 9.049 015	
125		100 9.049 016	
125 150		100 9.049 016 100 9.049 017	
150 185		1009.0490161009.0490171009.049018	
150		100 9.049 016 100 9.049 017	
150 185		1009.0490161009.0490171009.049018	
50 85		1009.0490161009.0490171009.049018	
150 185 240	0.114	100 9.049 016 100 9.049 017 100 9.049 018 100 9.049 019	
¹⁵⁰ ¹⁸⁵ ²⁴⁰ Filter paper, Grade		100 9.049 016 100 9.049 017 100 9.049 018 100 9.049 019	FILTER PAPERS
 150 185 240 Filter paper, Grade Circles. Qualitative. Thin and ve 	ery strong. Smooth surface.	100 9.049 016 100 9.049 017 100 9.049 018 100 9.049 019	Fightprinting + Herbits Collects
150 185 240 Filter paper, Grade Circles. Qualitative. Thin and ve Flow rate:	ery strong. Smooth surface. Fast	100 9.049 016 100 9.049 017 100 9.049 018 100 9.049 019	FILTER PAPERS Truese - Materials 114
150 185 240 Filter paper, Grade Circles. Qualitative. Thin and ve Flow rate: Retention:	ery strong. Smooth surface. Fast Medium	100 9.049 016 100 9.049 017 100 9.049 018 100 9.049 019	Fightprinting + Particle Collects
150 185 240 Filter paper, Grade Circles. Qualitative. Thin and ve Flow rate: Retention: Wet strength:	ery strong. Smooth surface. Fast Medium High	100 9.049 016 100 9.049 017 100 9.049 018 100 9.049 019	Copper
150 185 240 3 Filter paper, Grade Circles. Qualitative. Thin and ve Flow rate: Retention: Wet strength: Thickness:	ery strong. Smooth surface. Fast Medium	100 9.049 016 100 9.049 017 100 9.049 018 100 9.049 019 GE Healthcare	ELTERANDE PROFESSIONS
150 185 240 3 Filter paper, Grade Circles. Qualitative. Thin and ver Flow rate: Retention: Wet strength: Thickness: Diam.	ery strong. Smooth surface. Fast Medium High	100 9.049 016 100 9.049 017 100 9.049 018 100 9.049 019	Copper
150 185 240 Filter paper, Grade Circles. Qualitative. Thin and ver Flow rate: Retention: Wet strength: Thickness: Diam. mm	ery strong. Smooth surface. Fast Medium High	100 9.049 016 100 9.049 017 100 9.049 018 100 9.049 019 <i>GE Healthcare</i>	Copper
150 185 240	ery strong. Smooth surface. Fast Medium High	100 9.049 016 100 9.049 017 100 9.049 018 100 9.049 019 GE Healthcare	Disponence Productions
150 185 240 Filter paper, Grade Circles. Qualitative. Thin and ver Flow rate: Retention: Wet strength: Thickness: Diam. mm	ery strong. Smooth surface. Fast Medium High	100 9.049 016 100 9.049 017 100 9.049 018 100 9.049 019 <i>GE Healthcare</i>	Disponence Productions
150 185 240 Filter paper, Grade Circles. Qualitative. Thin and ver Flow rate: Retention: Wet strength: Thickness: Diam. mm	ery strong. Smooth surface. Fast Medium High	100 9.049 016 100 9.049 017 100 9.049 018 100 9.049 019 <i>GE Healthcare</i>	Disponence Productions
150 185 240 3 Filter paper, Grade Circles. Qualitative. Thin and ve Flow rate: Retention: Wet strength: Thickness: Diam. mm 150	ery strong. Smooth surface. Fast Medium High 0.19mm	100 9.049 016 100 9.049 017 100 9.049 018 100 9.049 019 <i>GE Healthcare</i> PK Cat. No. 100 9.049 027	Disponence Productions
 Filter paper, Grade Filter paper, Grade Circles. Qualitative. Thin and ve Flow rate: Retention: Wet strength: Fhickness: Diam. nm 150 Filter paper, Grade 	ery strong. Smooth surface. Fast Medium High 0.19mm	100 9.049 016 100 9.049 017 100 9.049 018 100 9.049 019 <i>GE Healthcare</i> PK Cat. No. 100 9.049 027	Copper
 Filter paper, Grade Filter paper, Grade Circles. Qualitative. Thin and ve Flow rate: Retention: Wet strength: Fhickness: Diam. nm 150 Filter paper, Grade 	ery strong. Smooth surface. Fast Medium High 0.19mm	100 9.049 016 100 9.049 017 100 9.049 018 100 9.049 019 <i>GE Healthcare</i> PK Cat. No. 100 9.049 027	A CORRECT MARKED BALANCE
 Filter paper, Grade Filter paper, Grade Circles. Qualitative. Thin and verse Circles. Qualitative. Thin and verse Point strength: Fhickness: Diam. nm 150 Filter paper, Grade Circles. Qualitative. Hardened. (Circles. Qualitative. Ha	ery strong. Smooth surface. Fast Medium High 0.19mm 9 542 Ashless. Highly retentive for fine precipitates.	100 9.049 016 100 9.049 017 100 9.049 018 100 9.049 019 <i>GE Healthcare</i> PK Cat. No. 100 9.049 027	Augurente and Augurente
3 Filter paper, Grade 240 Circles. Qualitative. Thin and vere Circles. Qualitative. Thin and vere Circles. Qualitative. Thin and vere Net strength: Circles. Qualitative. Thin and vere Diam. Diam. nm Diam. 150 Circles. Qualitative. Hardened. / Circles. Qualitative. Hardened. / Circles. Qualitative. Hardened. /	ery strong. Smooth surface. Fast Medium High 0.19mm 2019 2019 2019 2019 2019 2019 2019 2019	100 9.049 016 100 9.049 017 100 9.049 018 100 9.049 019 <i>GE Healthcare</i> PK Cat. No. 100 9.049 027	REPRESENCE WARDENES
 Filter paper, Grade Filter paper, Grade Circles. Qualitative. Thin and vere low rate: Retention: Wet strength: Chickness: Diam. Diam. Diam. Circles. Qualitative. Hardened. / Flow rate: Retention: 	ery strong. Smooth surface. Fast Medium High 0.19mm • 542 Ashless. Highly retentive for fine precipitates. Slow Medium	100 9.049 016 100 9.049 017 100 9.049 018 100 9.049 019 <i>GE Healthcare</i> PK Cat. No. 100 9.049 027	Actioned Series (Series Series
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 Filter paper, Grade Filter paper, Grade Circles. Qualitative. Thin and ve Flow rate: Retention: Wet strength: Thickness: Diam. mm Too Filter paper, Grade Circles. Qualitative. Hardened. / Flow rate: Retention: Wet strength: Thickness: Ash: Diam. mm 	ery strong. Smooth surface. Fast Medium High 0.19mm 9 542 Ashless. Highly retentive for fine precipitates. Slow Medium High 0.15mm	100 9.049 016 100 9.049 017 100 9.049 019 3 GE Healthcare PK Cat. No. 100 9.049 027 GE Healthcare 4 GE Healthcare 4 GE Healthcare 4 PK Cat. No.	A COMMENT TITUE
 Filter paper, Grade Filter paper, Grade Circles. Qualitative. Thin and vere Flow rate: Retention: Wet strength: Thickness: Diam. Mm Too Flow rate: Retention: Wet strength: Thickness: Thickness: Ash: Diam. Mm Too 	ery strong. Smooth surface. Fast Medium High 0.19mm 9 542 Ashless. Highly retentive for fine precipitates. Slow Medium High 0.15mm	100 9.049 016 100 9.049 013 100 9.049 019 GE Healthcare 3 PK Cat. No. 100 9.049 027 GE Healthcare 4 GE Healthcare 4 GE Healthcare 100 PK Cat. No. 00 9.056 500	A COMMENT TITUE
 Filter paper, Grade Circles. Qualitative. Thin and verflow rate: Retention: Wet strength: Thickness: Diam. Mm Thickness: Ash: Diam. Mage: Strength: Thickness: 	ery strong. Smooth surface. Fast Medium High 0.19mm 9 542 Ashless. Highly retentive for fine precipitates. Slow Medium High 0.15mm	100 9.049 016 100 9.049 013 100 9.049 019 GE Healthcare 3 PK Cat. No. 100 9.049 027 GE Healthcare 4 GE Healthcare 4 GE Healthcare 100 PK Cat. No. 100 9.056 500 100 9.056 500 100 9.056 500	Actioned Series (Series Series
 Filter paper, Grade Filter paper, Grade Circles. Qualitative. Thin and vere Flow rate: Retention: Wet strength: Thickness: Diam. Met Thickness: Circles. Qualitative. Hardened. / Flow rate: Retention: Wet strength: Thickness: Ash: Diam. Met S5 70 90 	ery strong. Smooth surface. Fast Medium High 0.19mm 9 542 Ashless. Highly retentive for fine precipitates. Slow Medium High 0.15mm	100 9.049 016 100 9.049 013 100 9.049 019 GE Healthcare 3 PK Cat. No. 100 9.049 027 GE Healthcare 4 GE Healthcare 4 GE Healthcare 100 PK Cat. No. 00 9.056 500	Actioned Without the second se
 3 Filter paper, Grade Circles. Qualitative. Thin and ve Flow rate: Retention: Wet strength: Thickness: Diam. mm 150 4 Filter paper, Grade Circles. Qualitative. Hardened. / Flow rate: Retention: Wet strength: Thickness: Ash: Diam. mm 55 70 90 110 125 	ery strong. Smooth surface. Fast Medium High 0.19mm 9 542 Ashless. Highly retentive for fine precipitates. Slow Medium High 0.15mm	100 9.049 016 100 9.049 013 100 9.049 019 100 9.049 019 GE Healthcare 3 GE Healthcare 4 GE Healthcare 4 GE Healthcare 4 GE Healthcare 100 9.056 500 9.056 500 100 9.056 502 100 9.056 503 100 9.056 503	A COMMENT TITUE
 Filter paper, Grade Filter paper, Grade Circles. Qualitative. Thin and vere Flow rate: Retention: Wet strength: Thickness: Diam. Met strength: Thickness: Flow rate: Retention: Wet strength: Thickness: Ash: Diam. Met strength: Thickness: Ash: <l< td=""><td>ery strong. Smooth surface. Fast Medium High 0.19mm 9 542 Ashless. Highly retentive for fine precipitates. Slow Medium High 0.15mm</td><td>100 9.049 016 100 9.049 013 100 9.049 019 GE Healthcare 3 GE Healthcare 4 GE Healthcare 4 GE Healthcare 4 GE Healthcare 100 9.056 500 100 9.056 500 100 9.056 503 9.056 503</td><td>A COURSE MARKED AND A COURSE AN</td></l<>	ery strong. Smooth surface. Fast Medium High 0.19mm 9 542 Ashless. Highly retentive for fine precipitates. Slow Medium High 0.15mm	100 9.049 016 100 9.049 013 100 9.049 019 GE Healthcare 3 GE Healthcare 4 GE Healthcare 4 GE Healthcare 4 GE Healthcare 100 9.056 500 100 9.056 500 100 9.056 503 9.056 503	A COURSE MARKED AND A COURSE AN



Circles and sheets. Qualit	ative. The most widely used grade of filter paper.	GE	Healthcar
Flowrate:	Medium		
Retention:	Medium		
Wet strength:	Low		
Thickness:	0.18mm		
Diam.		РК	Cat. N
mm 20		400	9.048 94
25		400	9.048 94
30		400	9.048 94
32		100	9.048 93
42.5		100	9.056 1
47		100	9.048 94
55		100	9.056 20
70		100	9.056 20
85		100	9.048 94
90		100	9.056 20
110		100	9.056 20
125		100	9.056 20
150		100	9.056 20
185		100	9.056 20
240		100	9.056 20
270		100	9.056 20
320		100	9.056 20
400		100	9.056 27
500		100	9.056 27
26 x 31		1000	9.056 33
460 x 570		100	9.056 33
460 x 570		500	9.056 3
580 x 680		100	9.056 3
75 x 100		500	9.056 33



2 Filter paper, G	Grade 2		
Flowrate: Retention: Wet strength:	ative. Slightly thicker and more retentive than number 1. Medium Medium Low	GE	Healthcare
Thickness: Ash:	0.19mm 0.06%		
Diam. mm		РК	Cat. No
42.5		100	9.056 198
55		100	9.056 210
70		100	9.056 211
90		100	9.056 212
110		100	9.056 213
125		100	9.056 214
150		100	9.056 215
185		100	9.056 216
240		100	9.056 217
320		100	9.056 219
460 x 570		100	9.056 332



3 Filter paper, Grade 91

Flowrate:

Circles and sheets. Qualitative. General purpose schools grade, creped.

Medium

GE Healthcare

Retention:	Medium		
Wet strength:	High		
Thickness:	0.205mm		
Diam.		РК	Cat. No.
mm			
110		100	9.048 938
125		100	9.048 933
150		100	9.048 939
185		100	9.048 934
240		100	9.048 940

5)

1 Filter paper, Gra	ade 3		1	
Circles and sheets. Qualitati	ive. Very thick. Double the thickness of number 1.	GE Healtl	hcare	FILTER PAPERS
Flowrate: Retention: Wet strength: Thickness: Ash:	Medium High High 0.39mm 0.06%			3 Cruster Jorne Jorne Whatman®
Diam. mm		PK Ca	t. No.	Whatman
55		100 9.050	5 220	
70		100 9.050	-	Whatman
90		100 9.050		
110		100 9.050		
125		100 9.050		
150		100 9.050		
185		100 9.050		
240		100 9.050		
460 x 570		100 9.05	5 333	

2 Qualitative filter paper, Grade 595, circles	\square	
Medium fast 4 to 7µm - thin filter paper	GE	Healthcare
 for medium to fine precipitates and general laboratory work Weight: 68g/m² 	5	
- Thickness: 0.150mm		
Diam.	PK	Cat. No.
mm		
110	100	9.062 303
125	100	9.062 304
150	100	9.062 305



3 Qualitative filter paper, Grade 597, circles and Medium fast, 4 to 7μm - thicker and faster than 595 - for medium to fine precipitates - Weight 81g/m ² - Thickness 0.180mm	GE Healthcare
Diam.	PK Cat. No.
mm	
55	100 9.062 400
90	100 9.062 402
110	100 9.062 403
150	100 9.062 405
185	100 9.062 406
240	100 9.062 407
580 x 580	100 9.066 597

4 Filter paper, (Grade number 5		4
Circles. Qualitative. Slow Supplied in packs of circl Flowrate: Retention: Wet strength: Thickness: Ash:	v flowrate. Retains fine precipitates, grained surface. les as outlined below. Slow High High 0.20mm 0.06%	<i>GE Healthcare</i>	FILTER PAPERS Interior To Annual States
Diam. mm		PK Cat. No.	/
55		100 9.056 240	
70 90		100 9.056 241 100 9.056 242	
110		100 9.056 243	
125 150		100 9.056 244 100 9.056 245	
185		100 9.056 246	
240		100 9.056 247	



1 Filter paper, (Grade number 6		
	, faster as Grade 5. Supplied in packs of circles as out	clined G	E Healthcare
below.			
Flowrate:	Slow		
Retention:	High		
Wet strength:	Low		
Thickness:	0.18mm		
Ash:	0.20%		
Diam.		РК	Cat. No.
mm			•
70		100	
90		100	
110		100	
125 150		100	
185		100	
240		100	
Slow < 2µm - thick filter paper - for fine precipitates - Weight: 84g/m ² - Thickness: 0.16mm Diam.		<u>, G</u>	E Healthcare
mm			
125		100	
185		100	9.062 706
Qualitative filter p	aper, Grade 604½, folded filters		
Fast, 12 to 25µm - time saving, because fi - filter faster than compa - for coarse precipitates	olded filters have a larger surface area	G	E Healthcare

Diam.	РК	Cat. No.
mm		
150	100	9.063 905
185	100	9.063 906
240	100	9.063 907
320	100	9.063 909

Qualitative filter paper, Grade 1573¹/₂, folded filters 2

Fast, 12 to 25µm - wet-strength

GE Healthcare

- time saving, because folded filters have a larger surface area than circular filters of the same diameter
- Weight: 88g/m² Thickness: 0.17mm

Diam.	PK	Cat. No.
mm		
125 150 185 240 270 320	100	9.065 104
150	100	9.065 105
185	100	9.065 106
240	100	9.065 107
270	100	9.065 108
320	100	9.065 109



3	Qualitative filter	paper,	Grade 5981/2	, folded filters
		P - P - /		

Medium to fast, 8 to 10µm

- thick filter paper - for fast filtration of coarse precipitates
- Weight: 140g/m²
- Thickness: 0.32mm

Diam.	PK	Cat. No.
mm 125		
125	50	9.063 604
185	50	9.063 606
240	50	9.063 607
500	50	9.063 611
580 x 580	250	9.066 598



2

GE Healthcare

3

Flowrate: Retention: Wet strength:

Thickness:

Ash: Diam.

mm

125

Filter paper, Grade number 2 V

Qualitative. Folded (pre-pleated) version of Number 2.

Medium Medium

Low 0.19mm

0.06%

6. Distillation, separation, filtration Filtration/Filter paper, qualitative

1 Qualitative filter paper, Grade 595½, folded filters		1
 Medium fast, 4 to 7µm time saving, because folded filters have a larger surface area filter faster than comparable circular filters for medium to fine precipitates and general laboratory work Weight: 68g/m² Thickness: 0.15mm 	<i>GE Healthcare</i>	SOB 10
Diam. mm	PK Cat. No.	-4449
70	100 9.063 301	- Andrew
110	100 9.063 303	
125	100 9.063 304	
150	100 9.063 305	
185	100 9.063 306	
240	100 9.063 307	
270	100 9.063 308	
320	100 9.063 309	
385	100 9.063 310	

2 Qualitative filter paper, Grade 597½, folded fil	Iters	
Medium fast, 4 to 7µm	GE Healthca	nre 💧
- time saving, because folded filters have a larger surface area		
- for medium to fine precipitates		_
- Weight: 81g/m ²		
Thickness: 0.18mm		- 1
		_ \
Diam.	PK Cat. N	lo. –
mm		
90	100 9.063 4	
110	100 9.063 4	
25	100 9.063 4	04
150	100 9.063 4	05
185	100 9.063 4	06
240	100 9.063 4	07
270	100 9.063 4	08
320	100 9.063 4	09
385	100 9.063 4	10
	100 9.063 4	4.4



100

9.056 304

Whatman

125	100	9.056 304	
150	100	9.056 305	
185	100	9.056 306	
240	100	9.056 307	
270	100	9.056 308	
320	100	9.056 309	
4 Qualitative filter paper, Grade 593 ½, folded filters			4
 Medium to slow 2 to 5µm time saving, because folded filters have a larger surface area than comparable circular filters for medium to fine precipitates and general laboratory work Weight: 85g/m² Thickness: 0.17mm 	GE	<i>Healthcare</i>	Solucionistia
Diam.	РК	Cat. No.	Schleicherts Ante
mm			597%
185	100	9.063 106	I ALL PUBLICAN
240	100	9.063 107	0 770 1001
			Sector and



	Qualitative filter paper, Grade 5941/2, folded filters		
	Slow 2 to 4µm	GE	Healthcare
	- for fine precipitates		
	- Weight: 75g/m² - Thickness: 0.15mm		
			A 1 A
	Diam. mm	РК	Cat. No.
	185	100	9.063 206
	Qualitative filter paper, thick, Grade 602eh½, folded filters		
	Very slow, <2 µm	CE	Healthcare
	- thick filter paper	GL	ricaltituare
	- for fine precipitates		
	- Weight: 85g/m ² - Thickness: 0.15mm		
	Diam.	РК	Cat. No.
	mm 125	100	9.063 804
	150	100	9.063 805
	1 Filter paper, grade 113 V		
FILTER PAPERS	Circles. Prepleated. Qualitative. Excellent retention of coarse and gelatinous precipitates,	GE	Healthcare
113V	creped.		
Circles	Flow rate: Fast		
150mm 0	Retention: Medium Wet strength: High		
Whatman	Thickness: 0.42mm		
All Contractions and the	Diam.	РК	Cat. No.
	mm	PK	Cat. NO.
	125	100	9.056 294
	150	100	9.056 295
	185 240		9.056 296 9.056 297
	270		9.056 298
	320	100	9.056 299
	500	100	
FILTER PAPERS	2 Filter paper, grade 114 V		
FLTDINAPERE + PRPARA RUTHUS	Circles. Prepleated. Qualitative. Thin and very strong. Smooth surface.	GE	Healthcare

2	FILTER PAPERS	2 Filter paper, grade	114 V		
	114V	Circles. Prepleated. Qualitative.	Thin and very strong. Smooth surface.	GE	Healthcare
	Cardess 150mm B	Flow rate: Retention: Wet strength:	Fast Medium High		
	Whatman*	Thickness:	0.19mm		
/		Diam. mm		РК	Cat. No.
		125		100	9.056 324
		150		100	9.056 325
		185		100	9.056 326
		240		100	9.056 327



1

LLG-Filter papers for quantitative analysis

Made from 100% cellulose. Ash content 0.007%. Filtration speed according to DIN 53137. Capacity of separation according to DIN 53135.

1 LLG-Quantitative filter paper, circles

- Fast 12 to 25µm for coarse, high volume precipitates
- for determinations according to the German Standard Methods for the examination of water, waste water and sludge.
- most frequently used quantitative filter
- ashless, equivalent black tape

Diam.	Filtration time	РК	Cat. No.
mm	secs.		
70	10	100	9.045 840
90	10	100	9.045 841
110	10	100	9.045 842
125	10	100	9.045 843
150	10	100	9.045 844
185	10	100	9.045 845





2 LLG-Quantitative filter paper, circles

Slow < 2µm.

- for very fine precipitates and small particles
- for soil analysis

- for BaSO4 (hot precipitate), PbSO4, Cu2O, ZnS, NiS

- ashless, equivalent blue tape				
Diam.	Filtration time		PK	Cat. No.
mm	secs.			
70	180	1	00	7.970 271
90	180	1	00	9.045 850
110	180	1	00	6.242 670
125	180		00	9.045 851
150	180	1	00	9.045 852
185	180	1	00	6.242 669
320	180	1	00	7.970 611

medium fa	st/fast		
Diam.	Filtration time	PK	Cat. No.
mm	secs.		
90	20	100	7.970 057
110	20	100	7.970 000
125	20 👝	100	7.970 058
150	20	100	7.970 001
185	20	100	7.970 002
200	20	100	6.242 179
200		100	



				_
4	LLG-Quantitative	filter paper, circles	(NEW!)	4
med	lium fast			
Dian	n. Filtration	РК	Cat. No.	
	time			
mm	secs.			
55	50	100	6.256 437	
70	50	100	7.970 571	
90	50	100	7.970 032	1
110	50	100	6.242 748	
125	50	100	7.970 045	
150	50	100	6.252 765	
185	50	100	6.242 747	
240	50	100	7.970 591	



100

100

100

9.056 413

9.056 415

9.056 417

100 9.056 414

100 9.056 416

GE Healthcare

6. Distillation, separation, filtration Filtration/Filter paper, quantitative

110

125

150

185

240

3

1

2

	1 Quantitative filter paper, (Grade 589/1, circles		
- 0	Fast 12 to 25µm		GE	Healthcare
0	Black ribbon			
	- for coarse, high volume precipitates			
NAME OF THE OWNER	- for determinations according to the Ger	man Standard Methods for the examination of water, waste wa	ater an	d sludge.
	- most frequently used quantitative filter			
	- Weight: 80g/m ² - Thickness: 0.19mm			
	- Thickness: 0.19mm			
	Diam.		РК	Cat. No.
	mm			
	90 110		100 100	9.060 102 9.060 103
	125		100	9.060 103
	150		100	9.060 105
	185		100	9.060 106
	2 Quantitative filter paper, g	grade 41		
	Circles. Quantitative. Ashless. For filtratio	n of coarse and gelatinous precipitates.	GE	Healthcare
	Supplied in box of 100.			
	Flow rate: Fast			
		dium		
	Wet strength: Low			
al and a		2mm		
	Ash: 0.00	07%		
	Diam.		РК	Cat. No.
	mm			
	55		100	9.056 410
	60 70		100 100	9.049 045 9.056 411
	90		100	9.056 411 9.056 412
	50		100	21020 412

Terrartin Websconter"	0		
Land 1		80	
Contra Co	North Control of Contr	-	

Medium fast, 4 to 12µm. White ribbon.

- for the analysis of foodstuffs

LILLA EILLA

- Weight: 85g/m² - Thickness: 0.18mm

Quantitative filter paper, Grade 589/2

Diam.	РК	Cat. No.
mm		
55	100	9.060 200
70	100	9.060 201
90	100	9.060 202
110	100	9.060 203
125	100	9.060 204
150	100	9.060 205
185	100	9.060 206
240	100	9.060 207

- for carbonates of alkaline earth metals, (NH₄)₃[P(Mo₃O₁₀)₄] x aq., Mg(NH₄)PO₄, CaC₂O₄ (hot precipitates)

rcles. Quantitative. Ashless		GE	Healthcar
ow rate:	Medium		
etention:	Medium		
et strength:	Low		
nickness:	0.21mm		
sh:	0.007%		
am.		РК	Cat. N
m			
		100	9.049 03
2.5		100	9.056 39
		100	9.056 40
		100	9.056 40
1		100	9.056 40
.0		100	9.056 40
.5		100	9.056 40
0		100	9.056 40
5		100	9.056 40
0		100	9.056 40

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avada 10

law d Duna Dive allebras	aper, Grade 589/3, circles	05	//aa/#/	1
Iow < 2µm. Blue ribbon. for very fine precipitates and small	all particles	GE	Healthcare	1
for soil analysis				0
for BaSO ₄ (hot precipitate), PbSC), CupO ZnS NiS			(II - 100)
Weight: 84g/m ²				territies and
Thickness: 0.16mm				
viam.		РК	Cat. No.	
nm				
10		100	9.060 303	
25 50		100 100	9.060 304 9.060 305	
85		100	9.060 305	
ilter paper, grade 42			(ເກ
ircles. Quantitative. Ashless. For i	filtration of fine precipitates.	GE	Healthcare	
low rate:	Slow			$\overline{\mathbf{A}}$
letention:	High			
Vet strength:	Low			
hickness:	0.20mm			
.sh:	0.007%			
iam.		РК	Cat. No.	
1m 2.5		100	9.056 419	
5		100	9.056 419	
0		100	9.056 421	
0		100	9.056 422	
10		100	9.056 423	
25 50		100	9.056 424 9.056 425	
85		100	9.056 426	
40		100	9.056 427	
	C			
hase separators, 1PS			(NEW!)	
silicone impregnated, water repe	ellent paper which can be used to separate a	queous GE	Healthcare	
olutions from immiscible solvents	. The aqueous phase is retained and the orga	anic phase		
	articles. Can be used either flat under suction	n not exceeding 70mm Hg or q	uadrant	
olded in a conical glass funnel. Su				
ote: This naner contains a small -	quantity of tin complex catalyst. It is therefo	re not recommended for use w urbazone) reagent	hen this	
omplex may cause interference e	ingritter the use of artifizence (applicit) tenote	in bazone) reagenti		
omplex may cause interference, e				
omplex may cause interference, e	Fast			
low rate:	Fast Medium			
omplex may cause interference, e low rate:				
omplex may cause interference, e low rate: etention:	Medium High 0.16mm			
omplex may cause interference, e low rate: letention: Vet strength:	Medium High			
omplex may cause interference, e low rate: letention: Vet strength: 'hickness: ish: Jiam.	Medium High 0.16mm	РК	Cat. No.	
omplex may cause interference, e low rate: .etention: Vet strength: 'hickness: .sh: Diam.	Medium High 0.16mm			
omplex may cause interference, e low rate: .etention: Vet strength: hickness: .sh: Jiam. J m 0	Medium High 0.16mm	РК 100 100	9.056 891	
omplex may cause interference, e low rate: tetention: Vet strength: 'hickness: ish: biam. 0 0 0	Medium High 0.16mm	100	9.056 891 9.056 892 9.056 893	
omplex may cause interference, e low rate: tetention: Vet strength: 'hickness: ish: biam. 0 0 0 0 0 0 0 0	Medium High 0.16mm	100 100 100 100	9.056 891 9.056 892 9.056 893 9.056 894	
omplex may cause interference, e low rate: .etention: Vet strength: 'hickness: .sh: 'iam. 	Medium High 0.16mm	100 100 100 100 100	9.056 891 9.056 892 9.056 893 9.056 894 9.056 895	
omplex may cause interference, e low rate: letention: Vet strength: 'hickness: lsh: biam. biam. 0 0 10 25 50 85	Medium High 0.16mm	100 100 100 100 100 100	9.056 891 9.056 892 9.056 893 9.056 894 9.056 895 9.056 896	
omplex may cause interference, e low rate: .etention: Vet strength: 'hickness: .sh: 'iam. 	Medium High 0.16mm	100 100 100 100 100	9.056 891 9.056 892 9.056 893 9.056 894 9.056 895	
omplex may cause interference, e low rate: etention: /et strength: hickness: sh: iam. im 0 0 0 10 25 50 85 40	Medium High 0.16mm	100 100 100 100 100 100 100 100	9.056 891 9.056 892 9.056 893 9.056 894 9.056 895 9.056 896 9.056 897	



Glass microfibre filters

Glass microfibre filters have a fast filtration and a high loading capacity and particle retention rate. Manufactured without chemical binder from high grade borosilicate glass. (Exception: GF6, GF9). They are suitable for gravity or low suction filtration. Filtration speeds generally very much higher than conventional cellulose papers. Efficient retention of micron size particles. Must be used flat. Ideal for use in flat perforated plate Buchner type funnels (not sintered glass models). Can be used up to 500°C.

Wide range of applications including:

- retention of fine analytical precipitates
- retention of biochemical gelatinous precipitates

- water/air pollution analyses
- as prefilters for membranes
- scintillation counting
- radioimmunoassay.



1 LLC	G-Glass micro				
Diam.	Filtration time	Weight	Thickness	P	K Cat. No
mm	secs.	g / m²	mm		
25	60*	52	0.26	10	0 9.045 860
37	60*	52	0.26	10	0 7.970 790
47	60*	52	0.26	10	0 9.045 861
55	60*	52	0.26	10	0 6.242 633
90	60*	52	0.26	10	0 6.252 072
110	60*	52	0.26	10	0 7.970 339
125	60*	52	0.26	10	0 7.970 033
150	60*	52	0.26	10	0 9.045 862
25	100*	52	0.26	10	0 9.045 865
47	100*	52	0.26	10	0 6.243 711
55	100*	52	0.26	10	0 6.251 383
70	100*	52	0.26	10	0 9.045 866
90	100*	52	0.26	10	0 9.045 867
110	100*	52	0.26	10	0 9.045 868
47	310*	75	0.45	10	0 7.970 106
55	310*	75	0.45	10	0 7.970 742
70	310*	75	0.45	10	0 6.253 553

2

Glass microfibre filters, grade GF 9, circles

Glass fibre filters are made of 100% borosilicate glass fibres with an inorganic binder. Temperature resistant up to 500°C.

GE Healthcare

Glass fibre filters are chemically resistant except against hydrofluoric acids and highly concentrated alkalis. Application:

- Gas-/	'air-moni	toring

2

50 90 11

3

mm			
Diam.		PK	Cat. No.
Thickness:	350µm		
Weight:	70g/m ²		
Filtration time according to Gurley:	20s		
Filtration time according to Herzberg:	120s		
Retention rate:	99.97%		
 Water and waste water determination 			

nm		
50	200	9.068 699
90	100	9.068 702
L10	100	9.068 703

Glass microfibre filters, grade GF 6, circles

mm			
Diam.		PK	Cat. No.
Thickness:	350µm		
Weight:	80g/m²		
Filtration time according to Gurley:	40s		
Filtration time according to Herzberg:	200s		
Retention rate:	99.97%		
		GE	Healthcare

mm		
55	100	9.068 500
70	100	9.068 501
90	100	9.068 502
110	100	9.068 503
125	100	9.068 504
150	100	9.068 505
185	100	9.068 506
240	100	9.068 507

GE Healthcare

1

BLAGS BIEROFIRST CILLAR

Glass microfibre filters, grade GF/F 1

This ultra-fine filter has a 98% retention efficiency for particles as small as 0.7µm in liquids. Particle retention to 0.7µm.

Diam.	РК	Cat. No.	GEE
mm			
24	100	9.056 666	Whatman
25	100	9.056 676	Whatthe
42.5	100	9.056 716	BALAN
47	100	9.056 726	Winstmeet a
55	100	9.056 780	Tanta Sal A
70	100	9.056 781	
90	25	9.056 782	
110	25	9.056 783	
125	25	9.056 784	
150	25	9.056 785	
257	25	9.056 787	
570 x 460	25	9.056 805	

2 Glass microfibre filters, grade GF/B		
Three times thicker and with greater wet strength than GF/A. Particle retention to 1µm.	GE	Healthcare
Supplied in pack quantities as outlined below.		
Diam.	PK	Cat. No.
mm		
24	100	9.056 662
25	100	9.056 672
37	100	9.056 692
42.5	100	9.056 712
47	100	9.056 722
55	100	9.056 750
70	100	9.056 751
90	25	9.056 752
110	25	9.056 753
125	25	9.056 754
150	25	9.056 755
185	25	9.056 756
570 x 460	25	9.056 802



GE	Healthcare	3 GF/C GF/B
PK	Cat. No.	Whatman-
100	9.056 643	
L00	9.056 663	
L00	9.056 673	
L00	9.056 713	
00	9 056 723	

Diam. mm	РК	Cat. No.
21	100	9.056 643
24	100	9.056 663
25	100	9.056 673
42.5	100	9.056 713
47	100	9.056 723
50	100	9.056 759
55	100	9.056 760
70	100	9.056 761
90	100	9.056 762
110	100	9.056 763
125	100	9.056 764
150	100	9.056 765
254 x 102	50	9.056 816
570 x 460	25	9.056 803

Circles. High retention at high flow rates. Widely used in water pollution monitoring
techniques for suspended solids, and is specified in US Method 934-AH.
Particle retention to 1.5µm.
Diam.
mm



PK

100

100

100

100

100

100

100

Glass microfibre filters, grade GF/C

Glass microfibre filters, grade 934-AH

Extremely efficient filter made to retain fine particles and micro organisms.

3

4

110

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E & OE.	



1 Glass microfibre filters, grade GF/A

The general purpose high efficiency glass microfibre filter. Particle retention to 1.6µm. GE Healthcare Supplied in pack quantities as indicated. Diam. Cat. No. PK mm 21 100 9.056 641 24 100 9.056 661 25 100 9.056 671 37 100 9.056 691 42.5 100 9.056 711 47 100 9.056 721 50 100 9.056 725 55 100 9.056 740 60 100 9.056 739 70 100 9.056 741 90 100 9.056 742 110 100 9.056 743 125 100 9.056 744 150 100 9.056 745 254 x 203 100 9.056 811 570 x 460 25 9.056 801

Glass m	nicrofibre	filters,	grade	EPM	2000	

For use in high volume air sampling apparatus. GE Healthcare Particle retention to 2µm.

Diam.			РК	Cat. No.
mm 🔶				
203 x 254			100	9.049 672



2 Glass microfibre filters, grade GF/D

Thick filter made from less fibres and retaining around 3μ m particles with a very high loading capacity. Extremely high speed. Particle retention to 2.7μ m.

GE Healthcare

100

25

9.056 729

9.056 814

New	DI	Cot No.
Diam.	PK	Cat. No.
mm		
25	100	9.056 674
47	100	9.056 724
70	100	9.056 771
90	25	9.056 772
110	25	9.056 773
125	25	9.056 774
150	25	9.056 775
125 150 257	25	9.056 777



47

203 x 254

3 Quartz m	nicrofibre filters, grade QM-A			
Manufactured from	Manufactured from quartz microfibre to withstand high temperatures.			
Can be used up to	500°C.			
Flow rate:	Fast			
Retention:	Medium			
Wet strength:	High			
Thickness:	0.475mm			
Diam.		РК	Cat. No.	
mm				
25		100	9.056 679	
37		100	9.056 699	

CE Hoalthcard

1 Me	embrane filt	ters, Grade I	C, made from cellulose nitrate
Applicati	ons:		GE Healthcare
- For prefi	iltration and du	st measurement	arification and sterile filtration
- For aque	eous solutions		
Propertie	es:		
- Very eas	sily wetted		
- Hydroph			
- Can be u	used up to 125°	°C	
	able up to 121		
			6 48.1.8 VIO.12. AMARTING 1 10-126-43 48
_			
Туре	Pore	Diam.	PK Cat. No.
	size		
NC 10	μm	47	100 9.057 341
NC 10 NC 10	0.10 0.10	50	100 9.057 341 100 9.057 342
NC 20	0.20	25	100 9.058 326
NC 20	0.20	47	100 9.058 327
NC 20	0.20	50	100 9.058 328
NC 45	0.45	25	100 9.057 219
NC 45	0.45	47	100 9.057 220
NC 45	0.45	50	100 9.057 222
NC 45	0.45	100	50 9.057 225
NC 45	0.45	110	50 9.057 226
NC 45	0.45	142	25 9.057 228

PK Cat. No.	PK	Diam.	Pore	Гуре
			size	
		mm	μm	
100 9.057 341	100	47	0.10	NC 10
100 9.057 342	100	50	0.10	NC 10
100 9.058 326	100	25	0.20	NC 20
100 9.058 327	100	47	0.20	VC 20
100 9.058 328	100	50	0.20	NC 20
100 9.057 219	100	25	0.45	VC 45
100 9.057 220	100	47	0.45	NC 45
100 9.057 222	100	50	0.45	VC 45
50 9.057 225	50	100	0.45	NC 45
50 9.057 226	50	110	0.45	VC 45
25 9.057 228	25	142	0.45	VC 45

Membrane filters, Cellulose nitrate, WCN 2

Plain white. Circles.

Plain white.	Circies.		GL	Healthcare
Pore size	Diam.	(0)	РК	Cat. No.
μm	mm			
0.10	25		100	9.950 979
0.10	47		100	9.950 980
0.20	13		100	9.950 981
0.20	25		100	9.950 982
0.20	47		100	9.950 983
0.20	90		25	9.950 984
0.20	142		25	9.950 985
0.45	13		100	9.950 988
0.45	25		100	9.950 989
0.45	47		100	9.950 991
0.45	50		100	9.950 992
0.45	90		25	9.950 994
0.45	142		25	9.950 995
0.65	47		100	9.950 998
0.80	25		100	9.951 001
0.80	37		100	9.951 002
0.80	47		100	9.951 003
0.80	90		25	9.951 004
1.00	25		100	9.951 005
1.00	47		100	9.951 006
1.20	50		100	9.951 008
1.20	142		25	9.951 009
3.00	25		100	9.951 010
3.00	47		100	9.951 011
5.00	25		100	9.951 012
5.00	47		100	9.951 013
5.00	90		25	9.951 014



	3 Membrane filter	s, Grade AE, made from pure cellulose nitrate			3 Dentrole
 	Applications: For prefiltration and dust me Properties: - Very easily wetted - For aqueous solutions - Hydrophilic - Can be used up to 125°C - Autoclavable up to 121°C	asurement, clarification and sterile filtration.	GE H	lealthcare	
	Type Pore size	Diam.	РК	Cat. No.	

Туре	Pore	Diam.	PK	Cat. No.
	size			
	μm	mm		
AE 98	5.00	47	100	9.057 041
AE 98	5.00	50	100	9.057 042
AE 99	8.00	25	100	9.057 005
AE 99	8.00	47	100	9.057 011
AE 99	8.00	50	100	9.057 012
AE 100	12.00	47	100	9.057 191
AE 100	12.00	50	100	9.057 193



1 Me	embrane Fi	ilters, G	Frade RC, Regenerated cellulose		(NEW!)
Applicati	on:			GE	Healthcare
For the st	erilisation and	particle fi	tration of aqueous and organic solutions		
Propertie	es				
- spontan	eously wetted,	, very goo	d wet-strength		
- high che	emical resistan	ice, useful	for aqueous and organic media		
- hydroph	ilic				
- can be u	used up to 180)°C			
- sterilisa	ble by all meth	nods			
- suitable	for use as ste	rile filter t	D ASTM-D 3862-80		
Туре	Pore	D'aux			
		Diam.		PK	Cat. No.
	size	Diam.		РК	Cat. No.
		Diam. mm		РК	Cat. No.
RC 58	size			РК 100	Cat. No. 9.057 771
RC 58 RC 55	size µm	mm		(O)	
	size μm 0.20	mm 47	6	100	9.057 771
RC 55	size μm 0.20 0.45	mm 47 47	C	100 100	9.057 771 9.057 791
RC 55 RC 58	size µm 0.20 0.45 0.20	mm 47 47 50	C	100 100 100	9.057 771 9.057 791 9.057 772
RC 55 RC 58 RC 55	size µm 0.20 0.45 0.20 0.45	mm 47 47 50 50	C	100 100 100 100	9.057 771 9.057 791 9.057 772 9.057 792



2 M	embrane fil	iters, Grade	e ME, made from mixed cellulose esters	
- Especia	nt for gravimetr Ily for aqueous suitable for cor			Healthcare
- Econom	ical			
- Constar	it weight			
- Hydrop	nilic			
- Not ster	ile			
- Can be	used up to 125	i°C		
	vable up to 121			
	•			
Туре	Pore	Diam.	РК	Cat. No.
	size			
	μm	mm		
ME24	0.20	25	100	9.058 965
ME24	0.20	47	100	9.058 969
ME24 ME24	0.20	50	100	9.058 987
ME24 ME25	0.20	142 25	25	9.058 981 9.058 935
ME25 ME25	0.45		100	9.058 935
ME25 ME25	0.45	47 50	100	9.058 939 9.058 942
ME25 ME25	0.45	100	50	9.058 942
IMEZO		110	50	9.058 946 9.057 812
ME25				3.03/ 012
ME25 ME25	0.45			0 058 051
ME25	0.45	142	25	9.058 951
ME25 ME27	0.45 0.80	142 25	25 100	9.058 865
ME25 ME27 ME27	0.45 0.80 0.80	142 25 47	25 100 100	9.058 865 9.058 869
ME25 ME27 ME27 ME27	0.45 0.80 0.80 0.80	142 25 47 50	25 100 100 100	9.058 865 9.058 869 9.058 872
ME25 ME27 ME27 ME27 ME28	0.45 0.80 0.80 0.80 1.20	142 25 47 50 47	25 100 100 100 100	9.058 865 9.058 869 9.058 872 9.058 839
ME25 ME27 ME27 ME27 ME28 ME28 ME28	0.45 0.80 0.80 0.80 1.20 1.20	142 25 47 50 47 50	25 100 100 100 100 100	9.058 865 9.058 869 9.058 872 9.058 839 9.058 842
ME25 ME27 ME27 ME27 ME28	0.45 0.80 0.80 0.80 1.20	142 25 47 50 47	25 100 100 100 100	9.058 865 9.058 869 9.058 872 9.058 839



Membrane filters, Grade OE, made from cellulose acetate 3

Very high wet strength and very low ability for protein binding. For filtration of aqueous, alcohol and oil-based solutions at temperatures up to 180°C.

GE Healthcare

Description	Pore size	Diam.	РК	Cat. No.
	μm	mm		
OE 67	0.45	25	100	9.057 565
OE 67	0.45	47	100	9.057 571
OE 67	0.45	50	100	9.057 572
OE 67	0.45	142	25	9.057 578
OE 66	0.20	25	100	9.057 605
OE 66	0.20	47	100	9.057 611
OE 66	0.20	50	100	9.057 612
OE 66	0.20	142	25	9.057 618

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1 M-	a hun a fil	tore Cel		dootor				1
		,	llulose mixe					1 34
Composed of	of cellulose ad	cetate (~20)%) and cellulos	e nitrate (~80%).		GE	Healthcare	
Туре	F	Pore	Diam.			PK	Cat. No.	
		size						
		μm	mm					15-10
Gridded white		0.45	47			100	9.951 016	DASIM THE
Gridded white	e	0.80	25			100	9.951 018	
2 Mer	mbrane fil	ters, Gra	ade NL, mac	le from pure polyamide				2
Applicatio		1				GE	Healthcare	
		llv in the p	harmaceutical se	ection		0L	ricultilicare	
Properties		, p.						
- Mechanica	ally very stror	ng						and the particular the parts of the
- For aqueo	ous and organ	ic solutions	5					
- Hydrophili								A second s
	sed up to 135							
- Autoclava	ble up to 134	ч <u>с</u>						
Туре	Pore	Diam.				РК	Cat. No.	
	size							
	μm	mm						
NL 16	0.20	47				100	9.057 433	
NL 17 NL 17	0.45	25 47				100 100	9.057 452 9.057 453	
NL 17	0.45	50				100	9.057 454	
2 14			1					2
3 Mer	mbrane fil	ters, Ny	ion					3
				ge of aqueous solutions, organic		GE	Healthcare	
	d for the filtra	ation of biol	logical preparation	ons and media. Autoclavable at				
121°C.								
Pore	Diam.					PK	Cat. No.	
size								MEMBRANE FILTERS
μm	mm					100		0.45µm
0.20 0.20	13 47					100 100	9.951 042 9.951 043	Nytan 41 am 100 Circles
0.20	47					100 50	9.951 043 9.951 044	Cat. No. 7404 054
0.45	13						9.951 045	
0.45	25					100	9.951 046	
0.45 0.45	47						9.951 047	
0.45	90 47						9.951 048 9.951 049	
0.00	.,					100		
				_				
4								
4 Mer	mbrane fil	ters, Gra	ade TE, PTFI	E with support				4
Applicatio				7		GF	Healthcare	
	ting filter for a	all applicati	ons			01		
- For aggres	ssive media a	nd cryoger	nic liquids					A CONTRACTOR OF THE STORE
 Separation 	n of free wate	er from org	anic solutions					17 Mar 19 19 19
	ing as gas/liqu							A STATISTICS AND A STATISTICS
	of air and (ho	ot) gases						States and a second second
Properties								10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
				as well as concentrated acids and bases	ich ======			12 10-tep-01 1 9031.5mm 15.0mV od.08 44
- nyarophol	bic - for aque sed up to 145	ous filtratio	on the pressure i	must be higher than the water breakthrou	ugn pressu	е		
			xcept gamma ra	diation				
Can be ste	chilised by dll	methous e	Acept gamma la					
Туре	Pore	Diam.				PK	Cat. No.	
	size							
TE 35	μm 0.20	25				50	9.058 682	
TE 35	0.20	25 47					9.058 682	
IE 33							9.058 684	

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GE Healthcare

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6. Distillation, separation, filtration Filtration/Membrane filters

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Anodisc 2) E
0.2µm 25mm 50 C Cat. No. 6809 6	
Cat. NO. 6809 6	022
Alboth	000
Nhatm	Idli

Membrane filters, PTFE, WTP 1

With PP backing.		GE I	lealthcare
Pore	Diam.	РК	Cat. No.
size			
μm	mm		
0.20	25	100	9.951 029
0.20 0.50	47	100	9.951 030
0.50	47	100	9.951 031
1.00	47	100	9.951 033

2 Membrane filters, inorganic, Anodisc[®]

Material: Anopore®. White.

The inorganic membrane Anopore[®] consists of high-purity aluminium oxide and can be used for a wide range of applications. The unique material has a precise, non-deformable honeycomb structure with a narrow pore size distribution range that guarantees very efficient particle retention. in addition, the membrane has a low protein binding capacity, minimal autofluorescence, is non-toxic and supports

cellular growth.

Pore	Diam.	РК	Cat. No.
size			
μm	mm		
0.02	13	100	9.951 034
0.02	25	50	9.951 035
0.02	47	50	7.604 787
0.10	13	100	9.951 036
0.10	25	50	6.235 017
0.10	47	50	9.951 038
0.20	13	100	9.951 039
0.20	25	50	9.951 040
0.20	47	50	9.951 041

Membrane filters, cellulose nitrate

Type 113. White. Very low content of extractable materials. Weight constant after 60 minutes of drying at 105°C. Suitable for residue analysis, microscopic viewing in incident or transmitted light, chemotaxis, x-ray fluorescence, spectrometry and gravimetric analysis. Autoclavable at 121°C. Other pore sizes and formats are available on request.

Туре	Pore	Diam.	PK	Cat. No.
	size			
	μm	mm		
11301	8.00	25	100	9.053 304
11301	8.00	47	100	9.053 308
11301	8.00	50	100	9.053 309
11302	3.00	50	100	9.053 349
11303	1.20	25	100	9.053 364
11303	1.20	47	100	9.053 368
11303	1.20	50	100	9.053 369
11304	0.80	25	100	9.053 384
11304	0.80	47	100	9.053 388
11304	0.80	50	100	9.053 389
11306	0.45	25	100	9.053 424
11306	0.45	47	100	9.053 428
11306	0.45	50	100	9.053 429
11306	0.45	142	25	9.053 432
Other patterns	are available on	request.		

Membrane filters Type 13005/13006, series

Cellulose nitrate. Grey membranes (black after wetting) with white grid. For detection of yeasts and moulds, particle analysis and microscopy.

Sar	toriu	IS
		~~

Туре	Pore	Diam.	Description	PK	Cat. No.
	size				
	μm	mm			
13005	0.65	47	sterile	100	9.054 122
13006	0.45	47	sterile	100	9.054 132
13006	0.45	50	sterile	100	9.054 133
13006	0.45	50	non-sterile	100	9.054 139
Other types a	vailable on reque	st.			

Membrane filters, gridded Type 13806 5

Cellulose nitrate. Sterile, individually packed. Green with dark green grid. Optimal contrast to light or white bacteria colonies when colony counting. Sartorius



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1 Membrane filters, gridded Type 13906 and 139H6

Cellulose nitrate. Sterile and individually packed. White with green grid. For the evaluation of microbiological and particle samples.

Туре	Pore size	Diam.	Description	РК	Cat. No.	
	μm	mm				N
13906	0.45	47	Standard	100	9.054 460	
13906	0.45	50	Standard	100	9.054 462	
139H6	0.45	47	High flow	100	9.054 464	
139H6	0.45	50	High flow	100	9.054 465	

2 Membrane filters, cellulose acetate

Type 111. Resistant to steam sterilisation up to 134°C, or in dry heat up to 180°C.

Very low adsorption (important when filtering proteinaceous solutions). Suitable for particle removal and ultracleaning of aqueous solutions, methanol, ethanol, high-grade alcohols and residue analysis of fuels and oils. The extractable content of these filters make up <1% of their weight.

		n request.	

Туре	Pore	Diam.	PK	Cat. No.
	size			
	μm	mm		
11106	0.45	25	100	9.053 044
11106	0.45	47	100	9.053 048
11106	0.45	50	100	9.053 049
11106	0.45	142	25	9.053 055
11107	0.20	25	100	9.053 064
11107	0.20	47	100	9.053 068
11107	0.20	50	100	9.053 069
11107	0.20	142	25	9.053 075
011 11				

Other patterns are available on request.

3 Membrane filters, Polyamide

Type 250. Polyamide, white. For filtration of alkaline solutions and organic solvents.

Type Pore size μm		Diam.	РК	Cat. No.
	μm	mm		
2506	0.45	25	100	9.053 227
2506	0.45	47	100	9.053 242
2506	0.45	50	100	9.053 243
2507	0.20	25	100	9.053 222
2507	0.20	47	100	9.053 223
2507	0.20	50	100	9.053 224

4 Membrane filters, blotting, Polycarbonate

Type 230. Polycarbonate (PC), white, non-sterile. Ultrapure, polycarbonate membrane with especially smooth surface and fine pore distribution. Applications include COD/TOC testing, particle analysis or epifluorescence microscopy.

Туре	Pore size	Diam.	РК	Cat. No.
	μm	mm		
23006	0.40	25	100	9.049 182
23006	0.40	47	100	9.049 183
23007	0.20	25	100	9.049 180
23007	0.20	47	100	9.049 181



Other patterns are available on request





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NEW

(NEW

LLG-Syringe Filters

We offer a line of syringe filters especially designed to provide efficient filtration of a broad variety of fluids, solvents, aqueous or inorganic solutions. Our syringe filters cover most applications in HPLC, pharmaceutical, environmental, biotechnology and food and beverage testing laboratories.

- Housing injected in Polypropylene or MABS
- Multifunctional Syringe filters equipped with Female Luer-Lock/Male Luer Lock or Male Luer Slip connections for different applications
- Pre-sterilised or non-sterile
- Sterile products in individual hard blister
- Superior pressure stability
- Easy to identify because of colour code and printed description

LLG Syringe Filter CA, Cellulose acetate

Hydrophilic membrane for filtration of aqueous solutions

This membrane features excellent shape stability in aqueous solutions and a very low binding capacity for proteins (21µg per 25 mm Filter).

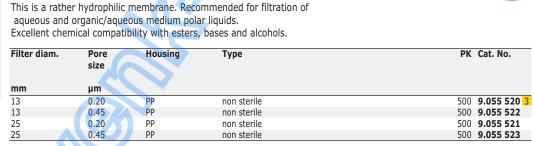
Ideal for use with biological macromolecules, water soluble oligomers and polymers. With Luer-Lock-outlet.

Filter diam.	Pore size	Housing	Туре	РК	Cat. No.
mm	μm				
13	0.20	Acrylic, blue	non sterile	500	9.055 500 1
13	0.45	Acrylic, yellow	non sterile	500	9.055 502
13	0.80	Acrylic, green	non sterile	500	9.055 504
25	0.20	Acrylic, blue	non sterile	500	9.055 501
25	0.45	Acrylic, yellow	non sterile	500	9.055 503 2
25	0.80	Acrylic, green	non sterile	500	7.970 389
13	0.20	Acrylic, blue	sterile	50	9.055 510
13	0.45	Acrylic, yellow	sterile	50	9.055 512
25	0.20	Acrylic, blue	sterile	50	9.055 511
25	0.45	Acrylic, yellow	sterile	50	9.055 513

3	
20,2043	
~	0

9.055 503

9.055 500



LLG Syringe Filter PE, Polyethylene

LLG Syringe Filter NY, Nylon/Polyamide

Universal Filter membrane for all analytical requirements. For aqueous and aggressive organic solvent filtration. Wide application in sample preparation, Ion chromatography.

Filter diam.	Pore size	Housing	Туре	PK Cat. No.
mm	μm			
13	0.20	PP	non sterile	500 9.055 540
13	0.50	PP	non sterile	500 9.055 542
25	0.20	PP	non sterile	500 9.055 541 4
25	0.50	PP	non sterile	500 9.055 543



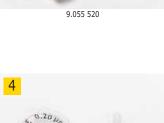
9.055 541

LLG Syringe Filter RC, Regenerated cellulose

Hydrophilic membrane features very low adsorption. Recommended for filtration of aqueous and organic/aqueous liquids.

For filtration of polar and medium polar liquids.

Filter diam.	Pore size	Housing	Туре	PK Cat. No.
mm	μm			
13	0.20	PP	non sterile	500 9.055 530 5
13	0.45	PP	non sterile	500 9.055 532
25	0.20	PP	non sterile	500 9.055 531
25	0.45	PP	non sterile	500 9.055 533



(NEW)

NEW LLG Syringe Filter PTFE, Polytetrafluorethylene 1 Hydrophobic membrane. Ideal for filtration of non-polar liquids and gases. It is very resistant to various solvents as well as acids and bases. SE0.45 Filter diam. Housing PK Cat. No. Pore Туре size mm μm 13 0.20 PP non sterile 500 **7.970 402** 13 0.45 PP non sterile 500 **7.970 385** 25 0.20 PP non sterile 500 9.055 535 6.255 331 25 0.45 PP non sterile 500 6.255 331 1 NEW LLG Syringe Filter PES, Polyethersulfone Hydrophobic membrane. Ideal for filtration of non-polar liquids and gases. It is very resistant to varous solvents as well as acids and bases. Filter diam. PK Cat. No. Pore Housing Туре size mm μm 13 0.20 Acrylic non sterile 500 9.055 524 500 9.055 526 13 0.45 Acrylic 7.970 213 non sterile 500 **9.055 525** 25 Acrylic 0.20 non sterile 500 7.970 213 2 25 0.45 Acrylic non sterile LLG Syringe Filter PVDF, Polyvinylidene fluoride NEW 3 Hydrophilic membrane for aqueous polar and light unpolar solutions. Very low protein binding. High flow rates ideal for use with biological macromolecules, water soluble oligomers and polymers. Filter diam. PK Cat. No. Pore Housing Туре size mm μm 13 0.20 PP 500 **7.970 258** non sterile 7.970 286 13 0.45 PP non sterile 500 **9.055 534** 25 0.20 PP non sterile 500 7.970 387 25 0.45 PP non sterile 500 7.970 286 3 LLG Syringe Filter GF, Glass-fibre NEW 4 Hydrophilic membrane suitable for pre-filtration. They can be used for solutions with high particulate loads or for highly viscous solutions (e.g. soil samples, fermentation broths) either alone or in combination with other filters. ~240 4

Filter diam.	Pore size	Housing	Туре	PK Cat. No.	
mm	μm		4		2
25	0.70	PP	non sterile	500 9.055 550	
25	1.00	PP	non sterile	500 9.055 551	9
25	1.20	PP	non sterile	500 9.055 552 4	
25	3.10	PP	non sterile	500 9.055 553	



E & OE. www.wenk-labtec.com 9.055 552





1 2 Syringe filters Puradisc[™] PVDF

Hydrophilic membrane for aqueous polar and light unpolar solutions. Very low protein binding

NEW GE Healthcare

Filter diam.	Pore size	Housing	Туре	P	Cat. No.
mm	μm				
4	0.20	PP	non-sterile	100	9.951 222
4	0.20	PP w. tip	non-sterile	50	9.951 213
4	0.45	PP	non-sterile	100	9.951 224
4	0.45	PP w. tip	non-sterile	50	9.951 215
13	0.20	PP	non-sterile	100	9.951 227
13	0.20	PP w. tip	non-sterile	50	9.951 218
13	0.45	PP	non-sterile	100	9.951 229
13	0.45	PP w. tip	non-sterile	50	9.951 220
4	0.20	PP	sterile	50	9.951 221
13	0.20	PP	sterile	50	9.951 226
13	0.20	PP w. tip	sterile	50	9.951 217
13	0.45	PP	sterile	50	9.951 228



				A A		
3 Syrin	ge filter	rs Puradisc™	PTFE			(NEW!)
Hydrophobic membrane. Ideal for filtration of non-polar liquids and gases.						Healthcare
Filter diam.	Pore size	Housing	Туре	N	РК	Cat. No.
mm	μm					
4	0.20	PP	non sterile		100	9.951 252
4	0.45	PP	non sterile		100	9.951 253
13	0.10	PP	non sterile		100	9.951 255
13	0.20	PP	non sterile		100	9.951 256
13	0.20	PP w. tip	non sterile		50	9.951 249
13	0.45	PP 📐	non sterile		100	9.951 257
13	0.45	PP w. tip	non sterile		50	9.951 250
13	1.00	PP	non sterile		100	9.951 258
25	0.20	PP	non sterile		50	9.951 069
25	0.20	PP	non sterile		200	9.951 070
25	0.45	PP	non sterile		50	9.951 071
25	0.45	PP	non sterile		200	9.951 072
25	1.00	PP	non sterile		50	9.951 073



4 Syringe filters Puradisc [™] Nylon	(NEWI)		
Hydrophilic membrane; it is recommended for filtration of aqueous and organic/aqueous medium polar liquids.	<i>GE Healthcare</i>		
Filter diam. Pore Housing Type	PK Cat. No.		

mm	μm				
4	0.20	PP	non sterile	100	9.951 265
4	0.45	PP	non sterile	100	9.951 266
13	0.20	PP	non sterile	100	9.951 268
13	0.45	PP	non sterile	100	9.951 269
25	0.20	PP	non sterile	50	9.951 065
25	0.20	PP	non sterile	200	9.951 066
25	0.45	PP	non sterile	50	9.951 067
25	0.45	PP	non sterile	200	9.951 068
4	0.20	PP	sterile	50	9.951 264
13	0.20	PP	sterile	50	9.951 267



5	Syringe filters Puradisc™ Polyethersulfone	NEW
5	Synnge inters Puradisc ¹¹¹ Polyethersunone	L V

Hydrophilic membrane for aqueous and light organic solutions with a low binding

GE Healthcare

capacity for proteins.

Filter diam.	Pore size	Housing	Туре	РК	Cat. No.
mm	μm				
13	0.20	PP	non sterile	100	9.951 239
13	0.45	PP	non sterile	100	9.951 241
25	0.20	PP	non sterile	200	9.951 063
25	0.45	PP	non sterile	200	9.951 064
13	0.20	PP	sterile	50	9.951 238
13	0.45	PP	sterile	50	9.951 240
25	0.20	PP	sterile	50	9.951 061
25	0.45	PP	sterile	50	9.951 062

1 Syrir	nge filters	Puradisc™	Polypropyler	ne			NEW!	1
Suitable for H Icids and alk		iltration (wate	r-based) and agg	ressive water s	olutions such as	GE	Healthcare	
ilter diam.	Pore size	Housing	Туре			PK	Cat. No.	and fille
nm	μm							and the the
3	0.20	PP	non sterile			100	9.951 245	A A A A A A A A A A A A A A A A A A A
3	0.45	PP	non sterile			100	9.951 245	E.M. O
							9.951 240	TA HATMAN
5	0.20	PP	non sterile			50		
25	0.20	PP	non sterile			200	9.951 075	
25	0.45	PP	non sterile			50	9.951 076	
25	0.45	PP	non sterile			200	9.951 077	0.2µm P?
								20
Syringe fi	ilters Pura	disc [™] Glass	s-fibre				(NEW!)	9
		table for pre-fil				GE	Healthcare	5
Filter diam.	Pore size	Housing	Туре			РК	Cat. No.	
nm	μm							
13	0.70	PP-GF/A	non sterile			100	9.951 278	
.3	1.20	PP-GF/A	non sterile			100	9.951 276	
.3	1.60	PP-GF/A	non sterile			100	9.951 275	
.3	2.70	PP-GF/A	non sterile			100	9.951 277	
<mark>2</mark> Syrir	nge filters	Puradisc™	FP30				NEW!	2
		ycarbonate (PC e (CN) or cellul	C) housing. ose acetate (CA)			GE	Healthcare	(Carlos)
Membrane	Filter diam.	Pore size	Housing	Туре	~~~~~	РК	Cat. No.	
	mm	μm						
CA	30	0.20	PC	non sterile		50	9.049 934	
CA	30	0.20	PC	non sterile		100	9.603 585	
A	30	0.20	PC	non sterile		500	9.603 584	
CA	30	0.20	PC*	non sterile		500	9.049 919	9
CA	30	0.45	PC	non sterile		50	9.049 932	
CA	30	0.45	PC	non sterile		100	9.049 927	
CA	30	0.45	PC	non sterile		500	9.049 933	
CA	30	0.80	PC	non sterile		50	9.049 936	
CA	30	0.80	PC	non sterile		500	9.049 920	
	30	1.20	PC	non sterile			9.049 937	
CA								
CA	30	1.20	PC	non sterile			9.049 925	
CA	30	5.00	PC	non sterile		50		
CA	30	5.00	PC	non sterile		100	9.049 926	
CA	30	5.00	PC	non sterile		500	9.603 581	
CA	30	0.20	PC	sterile		50	9.049 913	
CA	30	0.20	PC*	sterile		50	9.049 917	
CA	30	0.45	PC	sterile		50	9.049 912	
CA	30	0.80	PC	sterile		50	9.049 915	
A	30	1.20	PC	sterile		50	9.049 916	
ς Λ.	20	E 00	DC	ctorilo			0.040.011	

CA 30 CA 30 PTFE 30 * with Luer-Lock outlet

3 Syringe filters GD/X®

Whatman GD/X syringe filters are the perfect solution for samples with high viscosity or samples that contain particles. Four filter layers decrease clogging and therefore filter exchange during processing is avoided.

PC

PC

These filters allow 3 to 7 times higher throughput than traditional types.

5.00

0.20

Membrane	Filter diam.	Pore size	Housing	Туре	РК	Cat. No.
	mm	μm				
Nylon	25	0.20	PP	non sterile	150	9.056 820
Nylon	25	0.45	PP	non sterile	150	9.056 821
PVDF	25	0.20	PP	non sterile	150	9.056 822
PVDF	25	0.45	PP	non sterile	150	9.056 823
RC	25	0.20	PP	non sterile	150	9.056 807
RC	25	0.45	PP	non sterile	150	9.056 809
RC	25	0.45	PP	non sterile	1500	9.056 810

sterile

sterile



509.049911509.049918

GE Healthcare

50

50

50

50

50

50

50

50

9.951 196

9.951 197

9.951 202

9.951 203

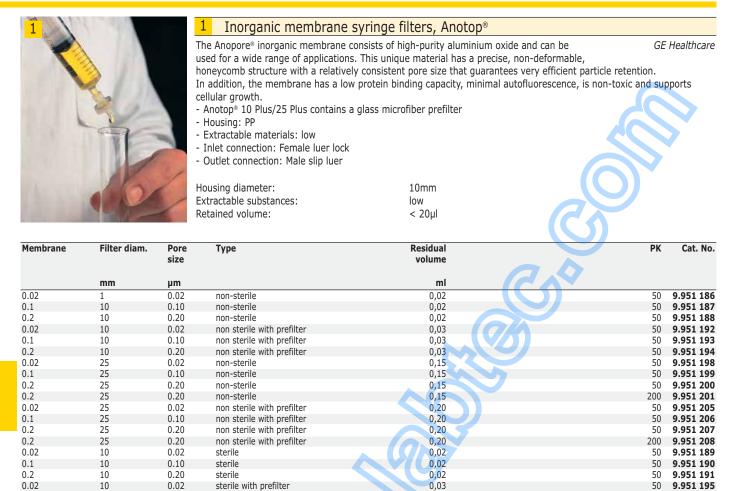
9.951 204

9.951 209

9.951 210

9.951 211

6. Distillation, separation, filtration Filtration/Syringe filters





10

10

25

25

25

25

25

25

0.1 0.2

0.02

0.1

0.2

0.1

0.2

0.02

0.10

0.20

0.02

0.10

0.20

0.02

0.10

0.20

sterile with prefilter

sterile

sterile

sterile

Syringe filters Spartan[®], Regenerated cellulose

Versatile use - ready-to-use filter units with a hydrophilic, low protein-binding membrane GE Healthcare made of regenerated cellulose.

0,03

0,03

0,15

0,15

0,15

0,20

0,20

0,20

First class chemical resistance against the usual aqueous and organic HPLC solvents

- Spartan[®] 13 and 30 are tested and certified for UV absorbance substances at wavelengths of 210nm and 254nm with water, methanol and acetonitrile;

- Spartan[®] 13 has an extremely low hold up volume; <10µl, for optimal filtration

Applications:

2

Ideal for HPLC sample preparation to achieve reproducible results. Carefully controlled manufacture guarantees lowest traces of UV- absorbing, extractable components.

Filter diam.	Pore size	Housing	Туре	РК	Cat. No.
mm	μm				
13	0.20	LLF/LM	non sterile	100	9.049 948
13	0.20	LLF/LM	non sterile	500	9.049 980
13	0.20	LLF/Mini-Tip	non sterile	100	9.049 943
13	0.20	LLF/Mini-Tip	non sterile	500	9.049 951
13	0.45	LLF/LM	non sterile	100	9.049 949
13	0.45	LLF/Mini-Tip	non sterile	100	9.049 944
13	0.45	LLF/Mini-Tip	non sterile	500	9.049 950
30	0.20	LLF/LM	non sterile	100	9.049 941
30	0.20	LLF/LM	non sterile	500	9.049 965
30	0.45	LLF/LM	non sterile	50	9.049 960
30	0.45	LLF/LM	non sterile	100	9.049 942
30	0.45	LLF/LM	non sterile	500	9.049 959

LLF = luer-lock female

LM = luer male

 first class Application Filtration of 	chemical resista 1: aggressive solut	nce opposit	ated with polypro te to common or loaded solutions	ganic HPLC solvents	GE	Healthcare	
Membrane	Filter diam.	Pore size	Housing	Туре	РК	Cat. No.	
DTEE	mm	μ m		and should be	100	0.040.001	
PTFE	13 13	0.20	PP* PP*	non sterile	100	9.049 981	
PTFE		0.45		non sterile	100	9.049 982	
PTFE	30	0.20	PP PP	sterile	50	9.049 955	
PTFE	30	0.20		non sterile	100	9.049 961	
PTFE	30	0.20	PP	non sterile	500	9.049 990	
TFE	30	0.45	PP	non sterile	100	9.049 962	
TFE	30	0.45	PP	non sterile	500	9.049 991	
TFE	30	1.00	PP	non sterile	100	9.049 963	
TFE	30	1.00	PP	non sterile	500	9.049 992	
TFE	30	5.00	PP	non sterile	100	9.049 964	
TFE	30	5.00	PP	non sterile	500	9.049 993	
GF92	30		PP	non sterile	100	9.049 996	
GF92	30		PP	non sterile	500	9.049 997	

Syringe filter Minisart NML, Cellulose acetate (CA) 2

For sterile, particle free, ultrapure filtration of small volumes of liquid up to approx. 100ml. Colour coded pore sizes for ease of identification. With hydrophilic cellulose acetate membrane for minimum adsorption. Ready-to-use immediately. With female luer-lock inlet, male luer slip outlet.

Application:

3

Application: Sterile filtration High purificat Ultrafiltration Pre-filtration	on ion	0.2 μm pore size 0.45 μm pore size 1.2 μm pore size 5 μm pore size	ze		
Filter diam.	Pore size	Housing	Туре	РК	Cat. No.
mm	μm				
28	0.20	Acrylic-blue	sterile	50	9.049 101
28	0.20	Acrylic-blue	non-sterile	500	9.049 107
28	0.45	Acrylic-yellow	sterile	50	9.049 102
28	0.45	Acrylic-yellow	non-sterile	500	9.049 108
28	0.80	Acrylic-green	sterile	50	9.049 103
28	0.80	Acrylic-green	non-sterile	500	9.049 109
28	1.20	Acrylic-red	sterile	50	9.049 104
28	1.20	Acrylic-red	non-sterile	500	9.049 122
28	5.00	Acrylic-brown	sterile	50	9.049 105
28	5.00	Acrylic-brown	non-sterile	500	9.049 123



Syringe filters, Minisart[®] High-Flow Polyethersulfon (PES)

Minisart[®] High Flow syringe filters for sterile filtration, particle removal and ultra-cleaning. Covers a wide pH range. These independent ready-to-use syringe filters with PES membrane filter feature excellent flow speed and high filterable volume. The Minisart® High Flow is a syringe filter for rapid volume sterilisation with maximum user convenience. Ready-to-use units, which offer flow rates at low inlet pressures, allow for a correspondingly rapid sterile filtration.



Filter diam.	Pore size	Housing	Туре	РК	Cat. No.
mm	μm				
28	0.10	Acrylic-aubergine	sterile	50	9.049 866
28	0.20	Acrylic-blue	sterile	50	9.049 129
28	0.20	Acrylic-blue	non-sterile	500	9.049 130
28	0.45	Acrylic-yellow	sterile	50	9.049 865



3

Sartorius

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Sartorius

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Sartorius

NEW

NEW

Sartorius

Sartorius

4



Syringe filter Minisart-plus, Cellulose acetate/glass-fibre (CA/GF)

The only difference between the Sartorius Minisart-plus and the standard Minisart NML is an additional Sartorius glass fibre pre-filter which enables a greater filtration volume for liquids which are difficult to filter. Available sterile, single-wrapped or non-sterile, bulk-wrapped, in outer packs as indicated.

Filter diam. mm	Pore size µm	Housing	Туре	PK Cat. No.
28	0.20	Acrylic-blue	non sterile	500 9.049 126
28	0.45	Acrylic-yellow	non sterile	500 9.049 128
28	1.20	Acrylic-red	non sterile	500 7.017 224
28	0.20	Acrylic-blue	sterile	50 9.049 118
28	0.45	Acrylic-yellow	sterile	50 9.049 127



3

Syringe filter Minisart glass-fibre (GF) 2

Sartorius Minisart-GF contains a single, binding agent-free, glass fibre pre-filter for ultrafiltration. Available sterile, single-wrapped or non-sterile, bulk-wrapped, in outer packs as indicated with a support achievement of 99% for 40µm spherical particles.

Filter diam.	Pore size	Housing	Туре	S	РК	Cat. No.
mm	μm					
28	0.70	Acrylic-white	non sterile		50	9.049 119
28	0.70	Acrylic-white	non sterile		500	9.049 120

Syringe filter Minisart Regenerated cellulose (RC) 3 Ready-to-use units with a hydrophilic, solvent-resistant membrane made of regenerated cellulose, making sample preparation quick and easy. Suitable for aqueous/organic solutions. With female luer-lock inlet, male luer slip outlet. Non-sterile.

Filter diam.	Pore size	Housing	Туре	РК	Cat. No.
mm	µm 🗸				
4	0.20	PP	non sterile	50	9.049 081
4	0.20	PP	non sterile	500	9.049 082
4	0.45	PP	non sterile	50	9.049 084
4	0.45	PP	non sterile	500	9.049 085
15	0.20	PP	non sterile	50	9.049 087
15	0.20	PP	non sterile	500	9.049 088
15	0.45	PP	non sterile	50	9.049 091
15	0.45	PP	non sterile	500	9.049 092
25	0.20	PP	non sterile	50	9.049 094
25	0.20	PP	non sterile	500	9.049 095
25	0.45	PP	non sterile	50	9.049 097
25	0.45	PP	non sterile	500	9.049 098
15	0.20	PP	sterile	50	7.075 954
25	0.20	PP	sterile	50	7.076 270



Syringe filter Minisart SRP, PTFE

With a chemical-resistant, hydrophobic PTFE membrane for high purification of solvents or aggressive liquids in HPLC or GC analysis. Low adsorption. With female luer-lock inlet, male luer slip outlet. Non-sterile.

Filter diam.	Pore size	Housing	Туре	PK	Cat. No.
mm	μm				
4	0.45	PP	non sterile	50	9.049 146
4	0.45	PP	non sterile	500	9.049 147
15	0.20	PP	non sterile	50	9.604 022
15	0.20	PP	non sterile	500	7.017 207
15	0.45	PP	non sterile	50	9.604 024
15	0.45	PP	non sterile	500	9.049 073
25	0.20	PP	non sterile	50	9.049 115
25	0.45	PP	non sterile	50	9.049 116
25	0.45	PP	non sterile	500	9.049 117
15	0.20	PP	sterile	50	7.080 155
25	0.20	PP	sterile	50	7.076 124

Minisart SRP 15 and SRP 25 are also available in 0.2µm pore sizes (and sterile).

Disposable syringes - please see page 1358.

Syringe filters CHROMAFIL®

General

CHROMAFIL® syringe filters are used for filtration of suspended matter from liquid samples. Advantages: HPLC-Certification available on the internet Polypropylene housing Better solvent stability compared to acrylate and polystyrene filters Shells ultrasonically sealed, not glued No extractable components from glues Filtration in both directions possible, the liquid cannot bypass the membranes Luer lock on side of entry Safe connection on the "high pressure" side Luer exit Standard luer for 3mm and 25mm filters, minispike luer with low dead volume and small OD for 15mm filters Deflector The stream of liquid is broken and distributed, and does not directly hit the membrane: this prevents rupture of the membrane Star-shaped distribution device The liquid is evenly distributed to the whole membrane surface: this results in a better utilisation of the total area; the filter is not rapidly clogged up; high flow efficiency Colour coded Filters with 0.2µm pores have a yellow upper housing, for filters with 0.45µm pores this is colourless; the different membrane types are distinguished by different colours Low dead volume ${\sim}80\mu l$ for 25mm, 12 μl for 15mm, 5 μl for 3mm. Specifications The membrane housing consists of polypropylene (PP). This material is very resistant towards most solvents and has a very low extractable

substances content. Thus it can be used with almost all solvents, acids and bases (see table). The especially thick rim of the housing is ideal for use with laboratory robots

(e.g. Benchmate[™]). Filter inlet and filter outlet can be fitted to the CHROMABOND[®] columns for selective sample preparation with the aid of a special adaptor. All filters can be autoclaved at 121°C and 1.1bar for 30min.

Chromafil[™]Xtra:

Labelled for method validation and certification. Colour-free plain polypropylene housing. Imprint for direct identification of the membrane type, diameter and pore size.

1 Syringe filter CHROMAFIL[™], Cellulose acetate (CA)

Hydrophilic membrane

For filtration of water-soluble oligomers and polymers, especially suited for biological macromolecules. Very high shape stability in aqueous solutions extremely low binding capacity for proteins (21µg/ 25mm filter).

Available in a sterile package (S) for filtration under sterile conditions (each filter individually sealed).

Filter diam.	Pore size	Housing	Туре	PK	Cat. No.
mm	μm				
25	0.20	PP-yellow/red	non sterile	100	9.049 038
25	0.20	PP-yellow/red	non sterile	400	9.049 039
25	0.20	PP-colourless/labelled*	non sterile	100	4.003 419
25	0.20	PP-colourless/labelled*	non sterile	400	4.003 420
25	0.45	PP-colourless/red	non sterile	100	9.049 040
25	0.45	PP-colourless/red	non sterile	400	9.049 041
25	0.45	PP-colourless/labelled*	non sterile	100	4.003 421
25	0.45	PP-colourless/labelled*	non sterile	400	4.003 422
25	0.20	PP-yellow/red	sterile	50	9.049 036
25	0.45	PP-colourless/red	sterile	50	9.049 037

2 Syringe filter CHROMAFIL™, Cellulose mixed ester (MV)

Hydrophilic membrane

This membrane is recommended for all filtrations in aqueous or polar organic samples.

Filter diam.	Pore	Housing	Туре	РК	Cat. No.
	size				
mm	μm				
25	0.20	PP-yellow/yellow	non sterile	100	9.049 030
25	0.20	PP-yellow/yellow	non sterile	400	9.049 031
25	0.20	PP-colourless/labelled*	non sterile	100	4.003 407
25	0.20	PP-colourless/labelled*	non sterile	400	4.003 408
25	0.45	PP-colourless/yellow	non sterile	100	9.049 032
25	0.45	PP-colourless/yellow	non sterile	400	9.049 033
25	0.45	PP-colourless/labelled*	non sterile	100	4.003 405
25	0.45	PP-colourless/labelled*	non sterile	400	4.003 406



2

MACHEREY-NAGEL

MACHEREY-NAGEL

MACHEREY-NAGEL



Syringe filter CHROMAFIL™, regenerated Cellulose (RC)

Hydrophilic membrane with very low adsorption for aqueous and organic/aqueous liquids i.e. polar and medium polar sample solutions. Binding capacity for proteins 84µg/25mm filter.

MACHEREY-NAGEL

NEW

Filter diam.	Pore size	Housing	Туре	РК	Cat. No.
mm	μm				
15	0.20	PP-yellow/blue ¹⁾	non sterile	100	9.049 025
15	0.20	PP-yellow/blue ¹⁾	non sterile	800	4.003 399
15	0.45	PP-colourless/blue ¹⁾	non sterile	100	9.049 026
15	0.45	PP-colourless/blue ¹⁾	non sterile	800	4.003 400
25	0.20	PP-yellow/blue	non sterile	100	9.049 042
25	0.20	PP-yellow/blue	non sterile	400	9.049 043
25	0.20	PP-colourless/labelled*	non sterile	100	4.003 424
25	0.20	PP-colourless/labelled*	non sterile	400	4.003 425
25	0.45	PP-colourless/blue	non sterile	100	9.049 044
25	0.45	PP-colourless/blue	non sterile	400	9.049 046
25	0.45	PP-colourless/labelled*	non sterile	100	4.003 426
25	0.45	PP-colourless/labelled*	non sterile	400	6.233 891

1) with mini tip outlet

2 Syringe filter CHROMAFIL[™], Polyamide (PA)

Hydrophilic membrane. The membrane is recommended for filtration of aqueous and organic/aqueous medium polar liquids.

MACHEREY-NAGEL

Filter diam.	Pore size	Housing	Туре	РК	Cat. No.
mm	μm				
3	0.20	PP-colourless	non sterile	100	9.049 047
3	0.45	PP-colourless	non sterile	100	9.049 048
25	0.20	PP-yellow/green	non sterile	100	9.049 049
25	0.20	PP-yellow/green	non sterile	400	9.049 050
25	0.20	PP-colourless/labelled*	non sterile	100	4.003 411
25	0.20	PP-colourless/labelled*	non sterile	400	4.003 412
25	0.45	PP-colourless/green	non sterile	100	9.049 051
25	0.45	PP-colourless/green	non sterile	400	9.049 052
25	0.45	PP-colourless/labelled*	non sterile	100	6.232 389
25	0.45	PP-colourless/labelled*	non sterile	400	6.234 011



Syringe filter CHROMAFIL™, Hydrophilized Polytetrafluoroethylene (H-PTFE)

Hydrophilized polytetrafluoroethylene syringe filters labelled for method validation and certification

MACHEREY-NAGEL

- Hydrophobic membrane with additional hydrophilic characteristics
- For polar and nonpolar solutions

Filter diam.	Pore size	Housing	Туре	РК	Cat. No.
mm	μm				
13	0.20	PP-colourless/labelled	non sterile	100	6.266 191
13	0.45	PP-colourless/labelled	non sterile	100	6.266 192
25	0.20	PP-colourless/labelled	non sterile	100	6.266 189
25	0.45	PP-colourless/labelled	non sterile	100	7.658 851
25	0.20	PP-colourless/labelled	non sterile	400	7.660 305
25	0.45	PP-colourless/labelled	non sterile	400	6.266 190

We can SUPPLY this nanufacturer's whole product range



E & OE. www.wenk-labtec.com

- Resistant against all kinds of solvents as well as acids and bases

MACHEREY-NAGEL

1

Syringe filter CHROMAFIL™, Polytetrafluoroethylene (PTFE) 1

A hydrophobic membrane. Ideal for filtration of non-polar liquids and gases. It is very resistant to various solvents as well as acids and bases. By flushing with alcohol, followed by water, the original hydrophobic membrane can be made more hydrophilic.

Filter diam.	Pore size	Housing	Туре	PK	Cat. No.
mm	μm				
3	0.20	PP-colourless	non sterile	100	9.049 053
3	0.45	PP-colourless	non sterile	100	9.049 054
15	0.20	PP-yellow/colourless ¹⁾	non sterile	100	9.049 055
15	0.20	PP-yellow/colourless1)	non sterile	800	4.003 394
15	0.45	PP-colourless ¹⁾	non sterile	100	9.049 056
15	0.45	PP-colourless ¹⁾	non sterile	800	4.003 395
25	0.20	PP-yellow/colourless	non sterile	100	9.049 057
25	0.20	PP-yellow/colourless	non sterile	400	9.049 058
25	0.20	PP-colourless/labelled*	non sterile	100	4.003 409
25	0.20	PP-colourless/labelled*	non sterile	400	4.003 410
25	0.45	PP-colourless/labelled*	non sterile	100	9.049 059
25	0.45	PP-colourless/labelled*	non sterile	400	9.049 060

*Chromafil XTRA ¹⁾ with mini tip outlet

Syringe filter CHROMAFIL™, Polyester (PET) 2

Hydrophilic multipurpose membrane.

For polar as well as non-polar solvents. The HPLC filter, especially suited for mixtures of water and organic solvents; for TOC/DOC determination; not cytotoxic, does not inhibit the growth of microorganisms and higher cells. Polyester filter with integrated glass fibre prefilter (GF/PET): recommended for solutions with a high load of particulate matter or for highly viscous solutions.

Filter diam.	Pore Housing Type size		РК	Cat. No.	
mm	μm				
15	0.20	PP-yellow/orange ¹⁾	non sterile	100	9.049 065
15	0.20	PP-yellow/orange ¹⁾	non sterile	800	4.003 397
15	0.45	PP-colourless/orange ¹⁾	non sterile	100	9.049 066
15	0.45	PP-colourless/orange ¹⁾	non sterile	800	4.003 398
25	0.20	PP-yellow/orange	non sterile	100	9.049 067
25	0.20	PP-yellow/orange	non sterile	400	9.049 068
25	0.20	PP-colourless/labelled*	non sterile	100	4.003 417
25	0.20	PP-colourless/labelled*	non sterile	400	4.003 418
25	0.45	PP-colourless/orange	non sterile	100	9.049 069
25	0.45	PP-colourless/orange	non sterile	400	9.049 070
25	0.45	PP-colourless/labelled*	non sterile	100	6.232 548
25	0.45	PP-colourless/labelled*	non sterile	400	4.003 416
25	1.20	PP-colourless/black*	non sterile	100	6.232 549
25	1.20	PP-colourless/black*	non sterile	400	6.233 172
25	1.0/0.20	PP-black/orange ²⁾	non sterile	100	9.049 079
25	1.0/0.45	PP-black/orange ²⁾	non sterile	100	9.049 080
25	1.0/0.20	PP-blue/orange ²⁾	non sterile	400	9.049 020
25	1.0/0.45	PP-black/orange ²⁾	non sterile	400	9.049 021

¹⁾ with mini tip outlet

25 *Chromafil XTRA

²⁾ with glass-fibre prefilter

3 Syringe f	filter Cl	HROMAFIL™, Polyether	sulfone (PES)	(NEW)	3
capacity for protein	ns. This n	queous and light organic soluti nembrane has extremely low ex d organic solutions.		MACHEREY-NAGEL	(
Filter diam.	Pore size µm	Housing	Туре	PK Cat. No.	
25	0.20	PP-colourless/labelled*	non sterile	100 4.003 427	
25	0.45	PP-colourless/labelled*	non sterile	100 4.003 429	
25	0.45	PP-colourless/labelled*	non sterile	400 4.003 430	

non sterile



MACHEREY-NAGEL

100

4.003 431

2



PP-colourless/labelled*

5.00

1

NEW

NEW

MACHEREY-NAGEL



Syringe filter CHROMAFIL[™], Glass-fibre (GF)

Inert Filter, nominal pore size 1µm, allows higher flow rates than smaller pore filters; for MACHEREY-NAGEL solutions with high loads of particulate matter or for highly viscous solutions (e. g. soil samples, fermentation broths) as prefilters for other CHROMAFIL® filters, they prevent plugging of the membrane.

Filter diam.	Pore size	Housing	Туре	<	PK Cat. N	۱o.
mm	μm					
15	1.00	PP-blue/colourless ¹⁾	non sterile		100 9.049 0	77
25	1.00	PP-yellow/black	non sterile		100 9.049 0	78
25	1.00	PP-yellow/black	non sterile		400 6.229 7	51
25	1.00	PP-colourless/labelled*	non sterile		100 6.232 3	62
25	1.00	PP-colourless/labelled*	non sterile		400 4.003 4	23
*Chromafil XTRA 1) with mini tip outlet						



2 Syringe filter CHROMAFIL[™], Polyvinylidenfluoride (PVDF) Hydrophilic membrane, for polar and nonpolar solutions, water-soluble oligomers and polymers like proteins binding capacity for proteins 82µg/25mm filter. The PVDF filter

with integrated glass fibre prefilter (GF/P) is recommended for filtration of biological samples with high particle loads. This filter features a high binding capacity for proteins. Also suited for filtration of polar and non-polar solutions.

Filter diam.	Pore	Housing	Туре	PK	Cat. No.
	size				
mm	μm				
25	0.20	PP-colourless/labelled*	non sterile	100	4.003 413
25	0.20	PP-colourless/labelled*	non sterile	400	4.003 414
25	0.45	PP-colourless/labelled*	non sterile	100	9.049 063
25	0.45	PP-colourless/labelled*	non sterile	400	4.003 415
25	1.0/0.45	PP-black/white ¹⁾	non sterile	400	4.003 402
25	1.0/0.45	PP-black/white1)	non sterile	100	4.003 401
*Chromafil XTRA					

¹⁾ with glass-fibre prefilter



Syringe filter Polyamide (PA) 3

This is a rather hydrophilic membrane; it is recommended for filtration of aqueous and Thermo Scientific organic/aqueous medium polar liquids. Excellent chemical compatibility with esters, bases and alcohols.

Sterile filters individually blister-packed, colour-coded blue.

Filter diam.	Pore size	Housing	Туре	РК	Cat. No.
mm	μm				
4	0.20	PP	non sterile	100	9.046 196
25	0.45	PP	sterile	50	6.268 144



4 Syring Autoclavable, c		lype 199, black.	PIFE	Thern	no Scientific
			ion of organic solutions and alcohols, tion of air or other gases.		
Filter diam.	Pore size	Housing	Туре	РК	Cat. No.
mm	μm				
25	0.20	PP	non sterile	50	9.046 187

 \succ More syringe filters, please see page 670.

1 Syringeless filters, Autovial[™]

Provides a single disposable, manual pressure filtration system which is fast and easy to use *GE Healthcare* in sample preparation.

- Built-in pre-filter for 'difficult' samples

- Minimal waste

Comprise a graduated, medical grade PP barrel, maximum capacity 12ml with 3cm² filter at the base, luer slip outlet and plunger. Non-sterile

Membrane	Pore	PK	Cat. No.
	size		
	μm		
PVDF	0.2	50	9.951 174
PVDF	0.45	50	9.951 175
Nylon	0.45	50	9.951 176
PTFE	0.2	50	9.951 177
PTFE	0.45	50	9.951 178

3 Syringeless filters Mini-UniPrep™

The Whatman Mini-UniPrep[™] filter provides a quick and easy means of removing particles *GE Healthcare* from HPLC samples. In comparison to other methods the amount of time required for sample preparation is reduced to one third. Mini-Uni-Prep[™] is a ready-to-use filter unit consisting of a 0.4ml chamber and a plunger. The plunger contains a filtration membrane at one end and a cap with septum at the other. The plunger is pressed through the sample in the chamber. The pressure generated forces the filtrate into the plunger reservoir, with air escaping through the vent hole until the locking mechanism engages to form an airtight seal. The unit can now be placed in any autosampler and the sample analysed. Alternatively the sample can also be removed manually with a suitable syringe and injected into the HPLC instrument.

Membrane	Pore	PK	Cat. No.
	size		
	μm		
PTFE	0.2	100	9.056 824
RC	0.2	100	9.056 825
RC	0.45	100	9.056 826
PVDF	0.45	100	9.056 827
DpPP	0.45	100	9.056 828
GMF	0.45	100	9.056 829
Nylon	0.45	100	9.056 830
PTFE	0.45	100	9.056 831
PP	0.45	100	9.056 832
RC	0.2	1000	9.056 833
RC	0.45	1000	9.056 834
PVDF	0.45	1000	9.056 835
Nylon	0.45	1000	9.056 836
PTFE	0.45	1000	9.056 837
РР	0.45	1000	9.056 838



Syringeless filters, slit septa Mini-UniPrep™

Slit septum cap enables Mini-UniPrep use with current robotics on HPLC instruments for high GE Healthcare throughput automation.

Durable yet flexible slit septum cap has been specially designed for instruments with sensitive sampling needs. Sample evaporation is minimal.

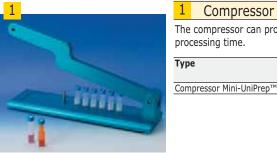
Membrane	Pore	РК	Cat. No.
	size		
	μm		
PVDF	0.2	100	9.056 840
Nylon	0.2	100	9.056 841
PTFE	0.2	100	9.056 842
Nylon	0.45	100	9.056 843
PTFE	0.45	100	9.056 844

Syringeless filters, amber Mini-UniPrep™	
Amber colorant prevents photo degradation of light sensitive samples.	GE Healthcare
Same colorant used in pharmaceutical containers designed to meet USP specifications for	

light resistance. Translucent amber chamber and plunger enable easy visual inspection

Membrane	Pore size μm	РК	Cat. No.
Nylon	0.2	100	9.056 845
PVDF	0.45	100	9.056 846
PTFE	0.45	100	9.056 847





Compressor for Mini-UniPrep[™] syringeless filters 1

The compressor can process up to 6 samples at any one time, further improving sample GE Healthcare processing time.

Cat. No.

9.056 839

PK





2 Dis	posable filtration	capsules, Pol	lycap TF™		
- 1µm caps - Autoclava	c PTFE membrane. ules incorporate a PP p ble up to 132°C maxin cions involving organic	num	ically aggressive solutions.	GE ŀ	Healthcare
Туре	Description	Porosity		РК	Cat. No.
		um			

11 -			
		μm	
Polycap 36 TF	non-sterile	0.2	1 9.951 126
Polycap 36 TF	non-sterile	1.0	1 9.951 127
Polycap 75 TF	non-sterile	0.2	1 9.951 128
Polycap 75 TF	non-sterile	1.0	1 9.951 129



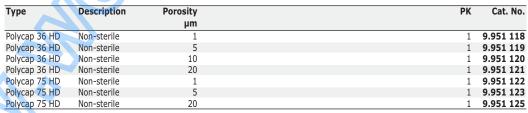
3	Disposable filtration capsules, PolycapHD [™]	(NEW!)	
PP r	nonofilament depth filters.	GE Healthcare	

- PF monofilament depth filters.
- Choice of filtration areas (36 HD:260cm², 75 HD: 650cm²) and porosities
- Maximum operating pressure 4.1 bar forward, 3.0 bar reverse
- Capsules may be used in either direction
- Low hold-up volume with air purge
- Autoclavable
- Operating temperature max. 60°C

Ideal for use as prefilters or for the filtration of samples in water or organic solvents. This design of deep-bed filter with a high loading capacity allows the purification of solutions with a high particle load.

- Filter PP

4





4	Disposable filtration capsules, Polycap AS [™]	(NEW!)
lse	d for large volumes of aqueous samples. Presterilized. Contains a nylon membrane	GE Healthcare

Used for large volumes of aqueous samples. Presterilized. Contains a nylon membrane which is inherently hydrophilic, has low extractables, is bio-safe and has excellent flow rates. A glass microfibre prefilter ensures a long working life for the main filter and allows the easy filtration of large volumes and difficult samples. Filter: GMF/Nylon

Туре	Porosity	PK	Cat. No.
	μm		
Polycap 36 AS	0.2	1	9.951 130
Polycap 36 AS	1.0	1	9.951 131

Selectron[®] filter holders FP 025/1 and FP 050/1

6. Distillation, separation, filtration Filtration/Syringe filters-In-Line filter

Selectron® filter holders FP 025/1 and FP 050/1	05.11.111
In polysulphone for use with syringes for analytical and preparative use. Filtration-media must be selected separately.	GE Healthcare
Applications of FP 025/1: Clarification and sterile filtration of aqueous liquids and gases. Applications of FP 050/1: Sampling and flow rate applications. Ideal for filtrations using peristaltic pumps and for gas sterilisation.	
	S
Specifications: Max. pressure: 7 bar	
Max. temperature: 180°C	
Type Diam. mm	PK Cat. No.
FP 025/1 25 FP 050/1 50	10 9.603 181 1 1 9.603 205 2
3 Membrane filter holders, syringe, Type 165	
Type 165. PC. Reusable filter holder, without filter. Filter has to be selected separately. For particle removal, sterile filtration of aqueous solutions or for venting of sterile vessels. Autoclavable. With Luer connection.	Sartorius
Diam.	PK Cat. No.
mm 13	12 9.049 241
25	12 9.049 242
1 2 1 9.603 181 2 1 9.603 205 9.603 205	
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E & OE.	683

(NE

6. Distillation, separation, filtration Filtration/In-Line filter



LLG-Inline-filters

The 50mm inline filter with it's ultra pure Polypropylene housing (ultrasonic welded) is designed to contain 47mm membranes. The filter comes with 6-12mm hose connectors (tapered) at the inlet and the outlet side. The PTFE-membrane can be used for filtration of aggressive chemicals including acids and non-aqueous solutions. Due to its high filter area of 1735mm² the filter is suitable for long term gas filtration /venting applications, it could be used for filtration of higher volumes of liquid (up to approximately 500ml, depending on the particle load of the filtrated suspension) or for filtration of aggressive non aqueous liquids.

- hydrophobic PTFE-membrane
- Housing polypropylene
- autoclavable at 121°C for 20 minutes at 2 bar, max. 3 cycles

Capsule filters LifeASSURE[™] PFS Series, PTFE

- stepped hose connector of 6-10mm on either sides
- high throughput with low pressure drop
- max. operating pressure 4.0 bar

Pore size	Diam.	РК	Cat. No.
μm	mm		
0.20	50	5	9.059 513
0.45	50	5	9.059 514



LifeASSURE[™] PFS 50 capsule filters are ideal for sterile air filtration applications in the 3M Deutschland laboratory.

Typical applications are in air filtration and sterile venting of tanks used for cell culture and bioprocessing designed to remove microorganisms and particulates. The filters offer the ultimate microorganism retention for air and gas streams while providing superior air flow capacity. The containing membrane is designed to provide low pressure drop resulting in fast flow.

- High flow optimized design
- Air and gas flow in both directions
- Reliable sterilization in humid and dry areas
- Hydrophobic PTFE membrane
- Stepped horse-barb of 6-10 mm on either side
- User friendly easy to use
- Autoclavable at 126°C for 30 minutes at 1.7 bar, 10 cycles
- Polypropylene (PP) housing
- Max. operating pressure 2.8 bar

Pore size	Diam.		РК	Cat. No.
μm	mm			
0.20	50		3	9.059 503
0.20	50		50	9.059 504

3 In-line filters, Midisart 2000

Midisart 2000 in-line filters. For sterile ventilation of fermenters, culture vessels, etc. or to act as a water barrier between the suction flask and the vacuum pump in filtration

applications. The supported PTFE membrane within a PP housing gives excellent chemical resistance. Filter in either direction (3 bar max. pressure).

- Stepped horse-barb of 6-12 mm on either sides
- sterile single packed filters, autoclavable

Pore size	1	Diam.	Туре	РК	Cat. No.
μm		mm			
0.20		62	sterile	12	9.049 151
0.20		62	sterile	25	9.049 152
0.20 0.45		62	non sterile	100	9.049 153
0.45		62	sterile	12	9.049 156
0.45		62	sterile	25	9.049 157

In-Line-Filter, disposable, Polydisc TF™

Mounted in a robust PP housing. All have a low hold-up volume.

Dimensions: (diameter x length) 53 x 46mm.

Connections: For 6mm to 10mm diameter bore tubing. Also accept male luer slip.

Hydrophobic PTFE membrane

0 0 4

L#DG

NYY

37NI

- Pore sizes 0.1µm, 0.2µm, 0.45µm, 1.0µm
- 1µm pore size unit has a PP prefilter
- Autoclavable at 131°C for 20 minutes
- Maximum operating pressure 4.0 bar

Suitable for chemically aggressive solutions, reagents and organic solvents. Ideal for protective venting, in-line filtration and isolation applications. Non-sterile.

Pore size μm	РК	Cat. No.
0.10	10	9.951 096
0.20	10	9.951 097
0.45	10	9.951 098
1.00	10	9.951 099



GE Healthcare

Sartorius

Sartorius

Sartorius

1

Pressure filtration units 1

Sartolab P 20. For sterile filtration of cell culture media. Ready-to-use, disposable filtration units. Surfactant-free, $0.2 \mu m$ cellulose acetate membrane with minimal protein adsorption. With Luer lock inlet and filling bell on the outlet.

Sartolab P 20 plus. With additional, binding agent-free, glass-fibre pre-filter for media which are difficult to filter.

Туре	РК	Cat. No.
Sartolab P 20	10	9.054 681
Sartolab P 20 plus	10	9.054 686
Coupling M12 x 1 with G ³ / ₈ male thread	1	9.604 383
Diaphragm pump, pressurizing, G ³ /s male screwthread connection, for 220V, 50Hz supplies	1	9.604 389
Tripod for pressure filtration apparatus 9.604 345	1	9.604 394
Double-ended box spanner for tripod 9.604 394	1	9.604 395
Stainless steel forceps	1	9.604 061

Further designs available on request.

For 47mm or 50mm diameter filters.

2 Pressure filter holder, stainless steel

For 47mm diameter membrane filters. With reservoir barrel allowing up to 200ml of Sartorius liquid to be filtered by connection to a suitable direct pressure source. Can also be used for filtering larger volumes in conjunction with a 5L pressurising container. Complete with silicone O-rings and 10mm diameter tubing ferrules on the inlet and outlets. For sterile filtration of tissue cultures, ultrafiltration of buffer solutions, cell count solutions and for pressing soil samples.

mi mm Pressure filter holder 200 0/47 mm 1 9 604 34	Туре	Volume	Filter size		РК	Cat. No.
Pressure filter holder 200 Ø 47 mm 1 9 604 34		ml	mm			
	Pressure filter holder	200	Ø 47 mm		1	9.604 345



3 Filter holders, vacuum, Type 162. Stainless steel Specially designed for residue analysis. The stainless steel filter support produces homogeneous distribution of the residues on the membrane filter surface. Easy to use.

Туре	РК	Cat. No.
Vacuum filter holder, 500ml	1	9.604 201
Vacuum filter holder, 100ml	1	9.604 202



Vacuum filtration Equipment Grade MV 050/0 4 Stainless steel construction, chemically resistant to most aqueous and organic solutions. GE Healthcare - funnel volume 500ml - for filters with 47mm /50mm diameter and 40mm diameter prefilter Self sealing, ideal for quick, repeated filtrations Туре PK Cat. No. MV 050A/0* 9.603 520 1 MV 050/0 9.603 510

*With rapid closure clamp



1



2 Microbiological monitoring of water: MBS I system and membranes

The MBS I filtration system is designed for laboratories that handle high numbers of samples for microbiological quality control. It consists of a membrane dispenser, a funnel dispenser, and a 2-place filter AS220 manifold.

GE Healthcare

Sartorius

Sartorius

AS220 Filtration Manifold and Filtration funnels AS220 is a two-place stainless-steel filtration manifold, which can be joined together (maximum of 3 manifolds). This simple manifold can be used with 47mm or 50mm filtration membranes. AS220 Filtration Manifold and Filtration funnels deliver:- Waste reduction-because PP funnels can be autoclaved up to 20 times

- Time saving-No need to flame in between filtrations
- Easy handing
- Cost saving-20 PP funnels are enough for 1000 analyses
- Reduces cross-contamination

Description	PK	Cat. No.
2-place vacuum manifold AS 220	1	6.231 788
Automatic dispenser for funnels	1	6.231 860
Funnels 100 ml, PP, autoclavable	20	7.616 566
Funnels 100 ml, ABS, not autoclavable	20	9.603 290
Funnels 350 ml, PP, autoclavable	20	6.801 571
Autoclaving bags	20	7.608 012
Membran-Butler manual	1	6.225 967



3 Filter manifold systems, 3- and 6-place

Traditional multi-branch manifolds and individual filter holders for microbial enumeration. The Sartorius filter holders and manifolds have been designed specifically for applications in which the particles or microorganisms retained on the membrane filter surface are of interest. Available with either 100ml or 500ml funnels.

Note:

Stainless steel manifolds only (Combisart) without funnels, for use with suitable adapters, are also available for attachment to all Sartorius vacuum funnels.

Туре	Diam.	Capacity	РК	Cat. No.
	mm	ml		
3-way stainless steel manifold	50	3 x 100	1	9.604 222
6-way stainless steel manifold	50	6 x 100	1	9.604 223
3-way stainless steel manifold	50	3 x 500	1	9.604 226
6-way stainless steel manifold	50	6 x 500	1	9.604 224



4 Stainless steel filter manifold system

Combisart® Multibranch System with modular structure: For microbiological analysis. Basic system without outlet for holding all dismountable Sartorius vacuum funnels either completely or by using appropriate adapters

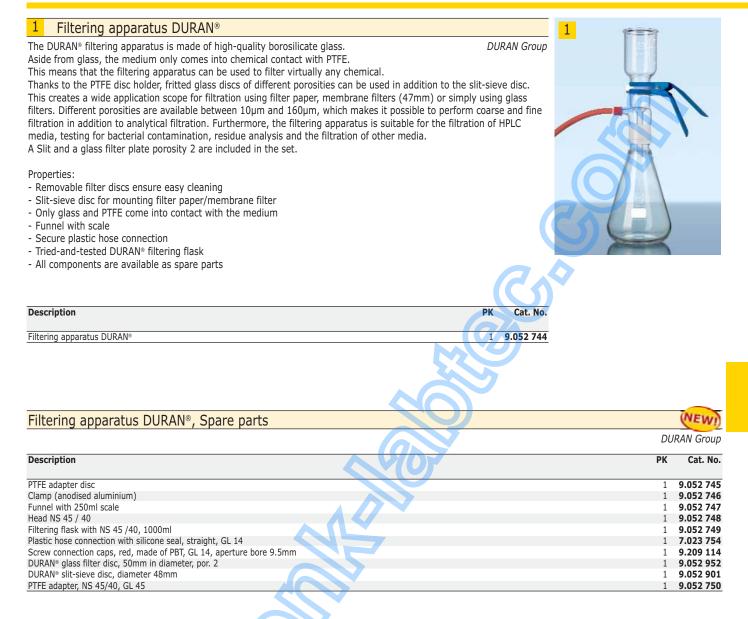
Description	PK	Cat. No.
2 share of the different standard	- 1	0.004.227
3-place s/s manifold with sterile venting	1	9.604 227
6-place s/s manifold with sterile venting	1	9.604 228
Funnel, 100 ml	1	9.604 210
< Funnel, 500 ml	1	9.604 211
Lid, stainless steel for 100ml funnel	1	9.604 212
Lid, stainless steel for 500ml funnel	1	9.604 213
Silicone lid seal for 100ml funnel	1	9.604 214
Silicone lid seal for 500ml funnel	1	9.604 215
Base support, stainless steel for mounting a single funnel onto a manifold	1	9.604 216

5 Filter holders, glass, Type 163

Two compact, glass vacuum filter holders for simple particle testing and clarification of solutions. With glass frit membrane filter support and anodised aluminium clamp.

Туре	Volume	For Filter size	РК	Cat. No.
	ml			
glass frit	30	25 mm dia.	1	9.604 204
glass frit	250	47/50 mm dia.	1	9.604 307





2 Filter holders, Type 16309

For vacuum filtration of particles from solutions. Comprises 250ml, dismountable, top manifold with filter holder and clamp. For 47mm and 50mm diameter filters. Supplied complete with 1L capacity filter flask with ground joint to fit manifold and PP side-arm for safe connection of flexible vacuum tubing.





3 Vacı	uum filtration	equipment, GV 025 series			3
- funnel volu	ume 60ml		G	E Healthcare	
- for filter 2	5mm diameter				
Туре	Filter media	Connection	PK	Cat. No.	1
Type GV 025/0		Connection rubber stopper	PK	Cat. No.	1





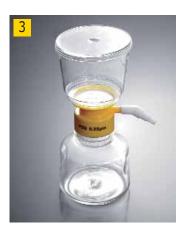
1 Vacuum or pressure filtration apparatus, Typ 16510, PC

For vacuum or pressure filtration For ultra or sterile filtration.	n up to 2 bar.		Sai	rtoriu
With collecting bottle 250 ml.				
For filter 47mm diameter filters.				
Туре	Volume	Filter	РКС	at. No
	ml	size mm		
PC filtration apparatus	250	Ø 47mm	1 9.04	49 243
			C	
2 Vacuum Filtration	Equipment G	/ 050 Series		
- Funnel Volume 250 ml			GE Heal	Ithcar

- GV 050A-Types equipped with rapid closure clamp

Туре	Filter media	Connection	РК			
	meuru					
GV 050/0	glass frit	rubber stopper	1	9.603 500		
GV 050/1	sieve	rubber stopper	1	9.603 501		
GV 050/2	glass frit	TC*, EF** 1000 ml (NS 45)	1	9.603 502		
GV 050/3	sieve	TC*, EF** 1000 ml (NS 45)	1	9.603 503		
*TC = tubing connection						
**FF - Extension of the di						

EF = Erlenmeyer flask



3 Filter units, PES membrane

NE

Jet Bio-Filtration

- These bottle-top filter units are ideally suited for the separation or purification of samples which are contained in large volumes. The units are available with either 0.22µm or 0.45µm pore sizes and 3 different volumes (250, 500 and 1000ml). Features:
- Bottle-top filter and reservoir bottle are included
- Light weight and stable wall construction
- Large knurls on the reservoir bottle cap for easy screwing
- Wide bottle mouth for efficient pouring out
- Volume graduation
- Hose connector fits multiple diameters
- Non-pyrogenic

Membrane material: Polyethersulfone (PES)

Capacity	Pore size	Neck thread	РК	Cat. No.
ml	μm	mm		
250	0.22	45	12	6.267 180
250	0.45	45	12	6.267 181
500	0.22	45	12	6.267 182
500	0.45	45	12	6.267 183
1000	0.22	45	12	6.267 184
1000	0.45	45	12	6.267 185

Filter units, Sartolab RF, PES membrane 4

Sterile filter units with receiver for sterile filtration of aqueous solutions and media, Sartorius particularly cell culture. Simple and safe to handle. The integral polyethersulfone (PES) membrane guarantees extremely good throughput times and low protein binding, making it ideal for filtering proteinaceous solutions. The receiver is supplied with a flexible vacuum tubing adapter and a lid.

Туре	Capacity	Pore size	PK	Cat. No.
	ml	μm		
Sartolab RF 150	150	0.22	12	9.049 200
Sartolab RF 250	250	0.22	12	9.049 201
Sartolab RF 500	500	0.22	12	9.049 202
Sartolab RF 1000	1000	0.22	12	9.049 203



www.wenk-labtec.com

Thermo Scientific

Thermo Scientific

Bottle-top filters, Sartolab BT, PES membrane 1 Sterile vacuum filters for screwing directly onto sterile bottles. Disposable units for sterile Sartorius filtration of media and aqueous solutions. The special polyethersulphone (PES) membrane produces extremely good throughput times and low protein binding, making it ideal for cell culture applications. With GL45 screw connection for all standard bottles. Caution: Only use sterile bottles authorised for use in low pressure applications. Туре Capacity PK Cat. No. Pore size ml μm Sartolab BT 150 9.049 204 150 0.22 48 Sartolab BT 500 9.049 205 500 0.22 12 Sartolab BT 1000 9.049 206 1000 0.22 12

2 Filter units Nalgene[™] Rapid-Flow[™], PES Membrane, sterile

Ideal for biological and pharmaceutical sterile filtration. PES membrane features low protein binding, low level of extractables and a high flow rate. Now available in three

pore sizes: The best filter units with 0.20µm and 0.45µm pore size and new to the protection of valuable cell cultures from mycoplasma with 0.10µm pore size. Filter top and filtrate bottle are graduated. Blue color-coded collar with cellulosic vent plug side arm and quick-disconnect tubing adapter. Leakproof, sterile screw closure included for storage of sterile filtrate. Sterile, single packed. Certificate of Quality included in each full case. Lot number, catalogue number, membrane type, pore size and expiration date are printed on filter units, bottle tops and receivers for easy identification and lot traceability.

Туре	Volume upper/lower part	Thread	Pore size	Membrane diam.	РК	Cat. No.
	ml	GL	μm	mm		
565	150/150	45	0.10	50	1	9.046 022
568	250/250	45	0.10	50	1	9.046 024
566	500/500	45	0.10	75	1	9.046 023
565	150/150	45	0.20	50	1	6.302 336
568	250/250	45	0.20	50	1	6.228 218
566	500/500	45	0.20	75	1	6.227 381
569	500/500	45	0.20	90	1	6.225 298
567	1000/1000	45	0.20	90	1	6.229 041
165	150/150	45	0.45	50	1	7.047 785
168	250/250	45	0.45	50	1	7.047 791
166	500/500	45	0.45	75	1	7.047 787
169	500/500	45	0.45	90	1	7.047 793
167	1000/1000	45	0.45	90	1	7.047 789



Bottle Top Filters Nalgene[™] Rapid-Flow[™], PES Membrane, sterile

Filters securely screw onto glass media bottles with 33mm or 45mm neck sizes. Allows direct filtration of liquid into sterile glass media bottles. Tight and secure thread connection for vacuum filtration, vacuum tubing to be connected onto tubing

Tight and secure thread connection for vacuum filtration, vacuum tubing to be connected onto tubing adapter of side-arm. Graduated. Certificate of quality included in each full case. Lot number, catalogue number, membrane type, pore size and expiration date are printed on filter units for easy identification and lot traceability.

Туре	Capacity	Neck thread	Pore	Membrane diam.	РК	Cat. No.
	ml	GL	μm	mm		
596	150	33	0.20	50	1	7.048 392
596	150	45	0.20	50	1	6.224 312
595	500	33	0.20	75	1	7.048 388
595	500	45	0.20	75	1	7.048 390
597	1000	33	0.20	90	1	7.048 396
597	1000	45	0.20	90	1	7.048 397
296	150	33	0.45	50	1	7.048 393
296	150	45	0.45	50	1	7.048 395
295	500	33	0.45	75	1	7.048 389
295	500	45	0.45	75	1	7.048 391



Cat. No.

6.234 424 9.046 020

PK



Filter Units Nalgene[™], Low Profile, PES Membrane, sterile

Compact Nalgene™ filter units with PES membrane are ideally suited for quick filtration Thermo Scientific of samples between 50 to 100 ml.

- Unitary construction with non-separable upper and receiver components
- Padless membrane support minimizes foaming of proteinaceous samples
- Non-pyrogenic
- Sterile

Туре	Volume upper/lower part	Thread	Pore M size	1embrane diam.	
	ml	GL	μm	mm	
524	115/150	45	0.20	50	
124	115/150	45	0.45	50	



2 Filter Units Nalgene[™] Rapid-Flow[™] with 50ml centrifuge tube, PES Membrane, sterile

Polystyrene housing, 0.2µm PES membrane. The optimal choice for small volume tissue Thermo Scientific culture work. Offers clean, fast filtration of 20ml to 50ml of media or buffers. This low protein binding unit is non-cytotoxic and non-pyrogenic. Comes assembled with 50ml conical tube and a separate closure. Includes 2 reusable stands in each case. Certified and graduated. Lot number, catalogue number, membrane type, pore size and expiration date are printed on it.

Туре	Volume	Thread	Pore M	embrane	РК	Cat. No.
	upper/lower part		size	diam.		
	ml	GL	μm	mm		
564	50/50	45*	0.20	50	1	9.046 021
* with a	dapter for 50ml tube					



3

Filter Units, Cellulose Nitrate Membrane, sterile

Thermo Scientific

White, cellulose nitrate membrane. Colour code: green. Gamma-irradiated sterile. Highest throughput rate for water and aqueous solutions, low extractables content. Surfactant-free.

Lot number, catalogue number, membrane type, pore size and expiration date are printed on filter units, bottle tops and receivers for easy identification and lot traceability.

Туре	Volume	Thread	Pore size	Membrane	Grid	РК	Cat. No.
	upper/lower part			diam.			
	ml	GL	μm	mm			
121	115/115	45	0.45	50	black	1	7.047 590
125	150/150	45	0.20	50	without	1	9.046 109
125	150/150	45	0.45	50	black	1	9.046 110
125	150/150	45	0.80	50	without	1	9.046 111
126	250/250	45	0.20	50	without	1	9.046 121
126	250/250	45	0.45	50	black	1	9.046 122
126	250/250	45	0.80	50	without	1	9.046 123
450	500/500	45	0.20	75	without	1	9.046 131
450	500/500	45	0.45	75	black	1	9.046 132
450	500/500	45	0.80	75	without	1	9.046 133
127	500/1000	45	0.20	75	without	1	9.046 141
127	500/1000	45	0.45	75	black	1	9.046 142
127	500/1000	45	0.80	75	without	1	9.046 143

Filter Units Nalgene™ Rapid-Flow™, Nylon Membrane, sterile

Single-use, disposable filter units for sterile filtration of media and other reagents, and Thermo Scientific for other highly sensitive cell culture lines. With polystyrene (PS) upper and lower chambers and nylon membrane. Colour code: red. For cell culture. Gamma-irradiated sterile. Extremely low in extractable substances, no wetting agents. Lot number, catalogue number, membrane type, pore size and expiration date are printed on filter units, bottle tops and receivers for easy identification and lot traceability.

Туре	Volume upper/lower part	Thread	Pore size	Membrane diam.	РК	Cat. No.
	ml	GL	μm	mm		
150	150/150	45	0.20	50	1	9.046 055
150	150/150	45	0.45	50	1	9.046 056
153	250/250	45	0.20	50	1	9.046 061
153	250/250	45	0.45	50	1	9.046 062
151	500/500	45	0.20	75	1	9.046 064
151	500/500	45	0.45	75	1	9.046 065
163	500/500	45	0.20	90	1	9.045 978
154	500/1000	45	0.20	75	1	9.046 067
154	500/1000	45	0.45	75	1	9.046 068
164	1000/1000	45	0.20	90	1	9.045 979



Filter units Nalgene[™] Rapid-Flow[™], SFCA Membrane, sterile

Single-use, disposable filter units for sterile filtration of media and other reagents, and for other highly sensitive cell culture lines. With polystyrene (PS) upper and lower chambers and surfactant-free, cellulose acetate membranes. Colour code: yellow collar. For cell culture. Gamma-irradiated sterile. Low protein binding, with high throughput rate for proteinaceous solutions and minimal extractables content. Lot number, catalogue number, membrane type, pore size and expiration date are printed on filter units bottle tops and receivers for easy identification and lot traceability.





Туре	Volume	Thread	Pore	Membrane	PK	Cat. No.
	upper/lower part		size	diam.		
	ml	GL	μm	mm		
122	115/115	45	0.20	50	1	7.047 591
122	115/115	45	0.45	50	1	6.236 659
155	150/150	45	0.20	50	1	9.046 034
155	150/150	45	0.45	50	1	9.046 035
157	250/250	45	0.20	50	1	9.046 037
157	250/250	45	0.45	50	1	9.046 038
156	500/500	45	0.20	75	1	9.046 041
156	500/500	45	0.45	75	1	9.046 042
158	500/1000	45	0.20	75	1	9.046 044
158	500/1000	45	0.45	75	1	9.046 045
162	500/500	45	0.20	90	1	9.045 975
162	500/500	45	0.45	90	1	9.045 976
161	1000/1000	45	0.20	90	1	9.045 971
161	1000/1000	45	0.45	90	1	9.045 972

can Supply this manufacturer's whole product range ! Thermo



1



Bottle Top Filters Nalgene[™] Rapid-Flow[™], SFCA Membrane, sterile

Tissue culture filters for screw fitting onto bottles with 33mm or 45mm neck diameters. With surfactant-free, cellulose acetate membrane (SFCA) and polystyrene (PS) housing. Thermo Scientific

Gamma-irradiated sterile. Pyrogen free. Non cytotoxic. Low-pressure filtration can be carried out directly into a suitable sterile bottle. Caution: Only use sterile bottles authorised for use in low pressure applications. Always wear protective equipment for low pressure procedures. The membrane is characterised by its low protein binding, good throughput rates and minimal clogging with negligible protein loss. Permanent, moulded graduations. Quick-disconnection tubing adaptor with cellulosic vent plug for tubing with an internal diameter of 6mm to 9mm. Lot number, catalogue number, membrane type, pore size and expiration date are printed on filter units for easy identification and lot traceability.

Туре	Capacity	Neck thread	Pore size	Membrane diam.	PK	Cat. No.
	ml	GL	μm	mm		
290	150	33	0.20	50	1	9.045 951
290	150	33	0.45	50	1	9.045 952
290	150	45	0.20	50	1	9.045 953
290	150	45	0.45	50	1	9.045 954
291	500	33	0.20	75	1	9.045 956
291	500	33	0.45	75	1	9.045 957
291	500	45	0.20	75	1	9.045 958
291	500	45	0.45	75	1	9.045 959
292	1000	33	0.20	90	1	9.045 961
292	1000	45	0.20	90	1	9.045 963

Filter Storage Bottles Nalgene[™] Rapid-Flow[™], PS, sterile

Easy-to-use ergonomic design. Can be used to store sterilised filtrate. Radiation-sterilised to save you time and minimize contamination. Also handy as presterilised, single-use storage containers. 1-1/2-turn threaded screw closure guarantees a leakproof seal and eliminates pH shift in receivers. Certified. Non pyrogenic, non cytotoxic. Sterile, graduated and leakproof.

Thermo Scientific

Туре	Capacity	Thread	PK	Cat. No.
	ml	GL		
455	150	45	1	7.048 731
455	250	45	1	7.048 732
455	500	45	1	7.048 733
455	1000	45	1	7.048 734





3 Bottle Top Filters Nalgene[™] Large-Volume FastCap[™], PES Membrane, sterile

Large-Volume Bottle Top Filter, blue PS housing. FastCap[™] Bottle Top Filter's universal fit eliminates the need to screw them onto glass media bottles. Filters up to 5L. just place on bottle mouth, apply vacuum and start filtering. Fits bottle necks up to 53mm.

Thermo Scientific

5	Pore	Diam.	PK	Κ	Cat. No
	size				
	μm	mm			
	0.20	90	•	1	7.055 107

Capacity	Ext. diam.	Height	Pore size	РК	Cat. No.
ml	mm	mm	μm		
8	25	28	6	1	9.052 080
8	25	28	7	1	9.052 081
8	25	28	8	1	9.052 082
15	30	35	6	1	9.052 083
15	30	35	7	1	9.052 084
15	30	35	8	1	9.052 085
25	35	40	6	1	6.233 176
25	35	40	7	1	6.233 748
25	35	40	8	1	9.052 086
35	40	43	6	1	9.052 087
35	40	43	7	1	9.052 088
35	40	43	8	1	9.052 089
50	45	50	6	1	9.052 090
50	45	50	7	1	9.052 091
50	45	50	8	1	9.052 092
					C
2 Gooc	h crucibles	, porcelair	1		(NEW)
Made from po	rcelain with pe	rforated botto	ms. They need filter paper for fil	tering process.	Isolab
Capacity	Diam.	Height		РК	Cat. No.
ml	mm	mm			
15	29	33		1	6.267 350
25	36	45		1	6.267 351
40	40	50			6.267 352

3 Filter crucibles, borosilicate glass 3.3	3
--	---

Perecilicate glace 2.2 With cintered disc filter d bolow

Capacity	Porosity	Diam.	PK	
าไ		mm		
5	1	23	1	
5	2	23	1	
5	3	23	1	
.5	4	23	1	
5	5	23	1	
0	1	30	1	
80	2	30	1	
30	3	30	1	
0	4	30	1	
0	5	30	1	
0	1	40	1	
0	2	40	1	
0	3	40	1	
50	4	40	1	
0	5	40	1	



Filter crucibles, DURAN® 4 4 With sintered glass filter disc at base, as outlined below. Glass Type I/neutral glass as per USP, EP and JP. Autoclavable. DURAN Group Capacity Diam. PK Cat. No. Porosity ml mm 30 28 9.052 021 1 1 30 30 23 28 9.052 022 1 28 9.052 023 1 9.052 024 9.052 025 30 30 50 50 50 4 28 1 5 28 1 9.052 031 9.052 032 36 1 2



3

4

50

36

36

36

1

1

1

9.052 033

9.052 034

1

mm 26

41

49

2

Diam.

mm

34

40

50

Rubber sleeves, EPDM

Borosilicate glass 3.3. Autoclavable.

Stem

diam.

mm

10

10

10

Adapters for filter crucibles, borosilicate glass 3.3.

DURAN Group

PK

PK

1

Cat. No.

9.052 114

9.052 121

9.052 126

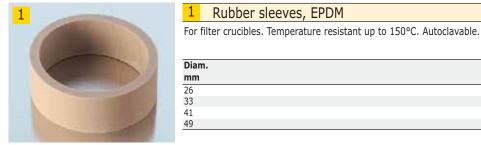
9.052 131

Cat. No.

9.052 213

9.052 214

9.052 215







3 Ac	dapters for filte	er crucibles, Duran [®]								
Glass Typ	Glass Type I/neutral glass as per USP, EP and JP. Autoclavable. DURAN Gr									
Diam.	Height	A VIOY	PK Cat. No.							
mm	mm									
27	108		1 9.052 216							
34	110		1 9.052 222							
41	125		1 9.052 226							
50	132		1 9.052 232							



4 Filter holders, DURAN®

DURAN[®]. Dismountable, modular filter holders with screwthreaded top manifold, PP funnel outlet DURAN Group and two FKM seals. Accessory sintered filter discs (9.052 941 to 9.052 954) are screwed in between two FKM seals. The filter discs are easy to replace. Membrane or paper filters can be stretched across the disc. Filter plates must be ordered separately.

Capacity	Plate diam.	Thread diam.	РК	Cat. No.
ml	mm	mm		
30	24	28	1	9.052 903
250	50	54	1	9.052 905
1000	90	95	1	9.052 910



5 Filter	r holders, gl	ass, top manifold only, DURAN [®]							
DURAN [®] . For use in dismountable filter holders. With screwthread, without PP outlet funnel, DURAN Group									
filter disc or l	filter disc or FKM rubber seals.								
Capacity	Thread		PK	Cat. No.					
Capacity	Thread diam.		РК	Cat. No.					
Capacity ml			РК	Cat. No.					

	diam.	
nl	mm	
0	28	1 9.052 913
50	54	1 9.052 915
000	95	1 9.052 920

Exhaust Devices - please see page 1151.

1 Filter	r holders, outle	t funnels, PP		1
		er holders. With screwthread to fit respective top manifold. lisc or FKM rubber seals.	DURAN Group	
Neck thread	Thread diam.		PK Cat. No.	
GL	mm			
28	10		1 9.052 973	
54 95	12 18		1 9.052 975	
95	18		1 9.052 980	
				\frown
0				<u>×</u>
2 Filter	discs, DURAN	8	(NEW)	2
With glass rin	n. For use in dismou	ntable filter holders. Patented design. Filter discs must	DURAN Group	and the second sec
		o FKM rubber seals. Without top manifold, PP outlet		
funnel or sea	ls.			
Plate	Porosity		PK Cat. No.	
diam.	Porosity		PK Cal. NO.	
mm				
24	1		1 9.052 941	
24	2		1 9.052 942	
24	3		1 9.052 943	
24 50	4		1 9.052 944 1 9.052 951	
50	2		1 9.052 951 1 9.052 952	
50	3		1 9.052 952 1 9.052 953	
50	4		1 9.052 954	
90	1		1 9.052 961	
90	2		1 9.052 962	
90	3		1 9.052 963	
90	4		1 9.052 964	

3 FKM seals		(NEW!)	3
For use in dismountable filter holders. Without PP outlet funnel, filter disc or top manifold.	DUI	RAN Group	
For	PK	Cat. No.	
diam.			
mm			
24	1	9.052 923	
50	1	9.052 925	
90	1	9.052 930	



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at. N 52 9



1 Filter funnels, Borosilicate glass 3.3

Borosilicate glass 3.3, with sintered disc filter as outlined below. Autoclavable.

Capacity	Porosity	Diam.	Stem diam.	РК	Cat. No.
ml		mm	mm		
50	1	36	10		9.052 367
50	2	36	10	1	9,052 368
50	3	36	10	1	9.052 369
50	4	36	10	1	9.052 370
75	1	48	10	1	9.052 371
75	2	48	10	1	9.052 372
75	3	48	10	1	9.052 373
75	4	48	10	1	9.052 374
125	1	60	10	1	9.052 375
125	2	60	10	1	9.052 376
125	3	60	10	1	9.052 377
125	4	60	10	1	9.052 378
250	1	80	18	1	9.052 066
250	2	80	18	1	9.052 067
250	3	80	18	1	9.052 068
250	4	80	18		9.052 069
500	1	95	22	1	9.052 379
500	2	95	22	1	9.052 380
500	3	95	22	1	9.052 381
500	4	95	22	1	9.052 382
1000	1	124	22	1	9.052 383
1000	2	124	22	. 1	9.052 384
1000	3	124	22	1	9.052 385
1000	4	124	22	1	9.052 386
4000	1	180	30	1	9.052 387
4000	2	180	30	1	9.052 388
4000	3	180	30	1	9.052 389
4000	4	180	30	1	9.052 390

2 Filter funnels, glass DURAN®

Glass Type I/neutral glass as per USP, EP and JP. Autoclavable.

DURAN Group

Capacity	Porosity	Diam.	Stem diam.	Height	РК	Cat. No
ml		mm	mm	mm		
50	1	35	10	130	1	9.052 301
50	2	35	10	130	1	9.052 302
50	3	35	10	130	1	9.052 303
50	4	35	10	130	1	9.052 304
50	5	35	10	130	1	9.052 30
75	1	45	10	132	1	9.052 31
75	2	45	10	132	1	9.052 312
75	3	45	10	132	1	9.052 31
75		45	10	132	1	9.052 31
75	4	45	10	132	1	9.052 31
125	1	60	10	140	1	9.052 32
125	2	60	10	140	1	9.052 32
125	3	60	10	140	1	9.052 32
125	4	60	10	140	1	9.052 32
125	5	60	10	140	1	9.052 32
500	1	95	22	240	1	9.052 33
500	2	95	22	240	1	9.052 33
500	3	95	22	240	1	9.052 33
500	4	95	22	240	1	9.052 33
500	5	95	22	240	1	9.052 33
1000	1	120	22	270	1	9.052 34
1000	2	120	22	270	1	9.052 34
1000	3	120	22	270	1	9.052 34
1000	4	120	22	270	1	9.052 34
1000	5	120	22	270	1	9.052 34
4000	1	175	30	425	1	9.052 36
4000	2	175	30	425	1	9.052 36
4000	3	175	30	425	1	9.052 36
4000	4	175	30	425	1	9.052 36

3 Filter funnels, conical, borosilicate glass 3.3

Capacity	Porosity	Diam.	Int.	Stem	РК	Cat. No.
ml		mm	diam. mm	diam. mm		
25	3	55	25	8	1	9.052 365
25	4	55	25	8	1	9.052 366





2

Capacity

ml

70

125

220

500

1000

6. Distillation, separation, filtration Filtration/Filtration apparatus

DURAN Group

PK

1

Cat. No.

9.252 022

9.252 028

9.252 034 9.252 044 9.252 054

1 Filter funnel	s, glass DURAN [®] , conical	1	
Conical. Glass Type I/ne	eutral glass as per USP, EP and JP. Autoclavable.	DURAN Group	
Capacity:	25mm		
Diameter:	55mm		
Plate diameter:	25mm		A.
Stem diameter:	8mm		
Height:	100mm		
Type Porosity		PK Cat. No.	
39D 3		1 9.052 453	
39D 4		1 9.052 454	
		G	

3 LLG Bu	ichner funnels,	porcelain		
For filter paper diam.	Capacity		РК	Cat. No.
mm	ml			
45	35		1	6.239 903
55	70		1	6.237 328
70	120		1	6.231 541
90	240		1	9.252 500
110	400		1	9.252 501
125	600		1	9.252 502
150	1000		1	9.252 503
185	2000		1	9.252 504
240	4000		1	9.252 505
295	7000		1	9.252 506
325	10000		1	9.252 507

Slotted sieve filter funnels (Buchner funnels), DURAN®

Stem

diam.

mm

10

10

18

22

22

Buchner pattern funnel with slotted sieve (perforated) filter plate.

Height

mm

132

140

190

240

270

Glass Type I/neutral glass as per USP, EP and JP. Autoclavable.

Diam.

mm

48

60

73 95

120



4 Bu	chner funn	els, porcelain		
To DIN 129	905.		На	ldenwanger
For filter diam. mm	Capacity	5	PK	Cat. No.
29	10		1	9.252 027
48	50		1	9.252 045
59	75		1	9.252 055
74	135		1	9.252 070
95	290		1	9.252 090
114	580		1	9.252 110
130	795		1	9.252 125
155	1250		1	9.252 150
190	1900		1	9.252 185
250	4300		1	9.252 240
279	5800		1	9.252 270
330	10600		1	9.252 320



E & OE.



1 Filter funnels, PP, Buchner

PP. Two-piece construction. Top and bottom sections can be separated. Easy to clean.

Kartell

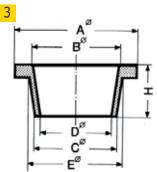
Kartell

CETEC



For filterpaper diam.	Capacity	PK Cat. No.
mm	ml	
42.5	40	1 9.252 330
55	70	1 9.252 331
70	180	1 9.252 332
80	285	1 9.252 333
90	390	1 9.252 334
110	810	1 9.252 335
160	2100	1 9.252 338
240	6000	1 9.252 339





2	Discs for filter	funnels,	Buchner,	PE-HD
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Useful interface layer between filter paper and perforated Buchner plate. Avoids clogging

mm 1 9.252 34 45 1 9.252 34 55 1 9.252 34 70 1 9.252 34 80 1 9.252 34 90 1 9.252 34 10 1 9.252 34 160 1 9.252 34	of filter holes.		
45 1 9.252 34 55 1 9.252 34 70 1 9.252 34 80 1 9.252 34 90 1 9.252 34 10 1 9.252 34 160 1 9.252 34	Diam.	PK	Cat. No.
55 1 9.252 34 70 1 9.252 34 80 1 9.252 34 90 1 9.252 34 10 1 9.252 34 160 1 9.252 34	mm		
70 1 9.252 34 80 1 9.252 34 90 1 9.252 34 110 1 9.252 34 160 1 9.252 34	45	1	9.252 340
80 1 9.252 34 90 1 9.252 34 110 1 9.252 34 160 1 9.252 34	55	1	9.252 341
90 1 9.252 34 110 1 9.252 34 160 1 9.252 34	70	1	9.252 342
110 1 9.252 34 160 1 9.252 34	80	1	9.252 343
160 1 9.252 34	90	1	9.252 344
	110	1	9.252 345
240 1 9.252 34	160	1	9.252 348
	240	1	9.252 349

3 Fil	ter rings,	rubber					
Natural ru	ibber (NR). To	hold filter	funnels or c	rucibles.	7		
ØA	ØB	ØC	ØD	ØE	Height	РК	Cat. No.
mm	mm	mm	mm	mm	mm		
41	25	24	18	30	20	1	9.052 449
48	35	32	28	36	20	1	9.052 450
56	40	42	35	44	20		9.052 451



Protective collars, EPDM. 4

For filter flasks.

Special design centres the funnel and flask and provides stable support for funnels, filters and manifolds placed on them. A clean seal is made between the flask rim and container placed on it. Application of the vacuum provides a tight seal. Also provides all-round protection for glass filter flask rims, significantly reducing impact damage and extending working life.

Diam.	Height	For bottles	РК	Cat. No.
mm	mm	ml		
23	11	100	1	9.052 391
33	15	250, 500	1	9.052 392
44	25	1000	1	9.052 393
58	25	2000, 3000	1	9.052 394
68	25	5000, 10000	1	9.052 395



5 Gaskets

Grey, filter gaskets made of natural rubber (NR). Conical, to fit filter funnels or crucibles Deutsch & Neumann into suction flasks.

Тор	Bottom	Height	Wall	РК	Cat. No.
diam.	diam.	-	thickness		
mm	mm	mm	mm		
21	12.0	18	2.5	1	9.052 412
27	17.0	20	3.0	1	9.052 417
33	21.0	24	3.0	1	9.052 423
41	27.5	27	4.0	1	9.052 427
53	33.0	34	5.0	1	9.052 432
68	48.0	35	5.5	1	9.052 436
78	58.0	35	6.0	1	9.052 439
89	66.0	40	6.5	1	9.052 443

1 Set	t of filter crucible cone				1
			Dautzah	0 Noureau	-
	33mm, 48mm, 58mm and 66n	ower diameter of 12mm, 17mm, 21mm, nm each.	Deutsch	& Neumann	
			РК	Cat. No.	
Туре			PK	Cal. NO.	
Guko set			1	9.052 400	
2 Filt	er flasks, PE				2
Manufactur	red from durable thick walled	polyethylene.		Isolab	
	are suitable to fit 6-10 mm ho				
Capacity			РК	Cat. No.	
ml					
1000			1	6.243 759	
Filtor fla					3
riller lid	isks, Erlenmever shap	e, borosilicate glass 3.3			
		e, borosilicate glass 3.3		Icolah	
Borosilicate	e glass 3.3 with thick walls ac	cording to ISO 6556 and DIN 12476 standards.		Isolab	
Borosilicate The glass s	e glass 3.3 with thick walls acc side arm and the Polypropylen	cording to ISO 6556 and DIN 12476 standards. e side arm is suitable to work with 6mm to 10mm	fitting of the tub		
Borosilicate The glass s	e glass 3.3 with thick walls acc side arm and the Polypropylen	cording to ISO 6556 and DIN 12476 standards.	e fitting of the tub		(Came
Borosilicate The glass s hose diame	e glass 3.3 with thick walls acc ide arm and the Polypropylen eters. The Polypropylene side	cording to ISO 6556 and DIN 12476 standards. e side arm is suitable to work with 6mm to 10mm		ving.	
Borosilicate The glass s hose diame	e glass 3.3 with thick walls acc ide arm and the Polypropylen eters. The Polypropylene side lateral	cording to ISO 6556 and DIN 12476 standards. e side arm is suitable to work with 6mm to 10mm			
Borosilicate The glass s hose diame Capacity	e glass 3.3 with thick walls acc ide arm and the Polypropylen eters. The Polypropylene side	cording to ISO 6556 and DIN 12476 standards. e side arm is suitable to work with 6mm to 10mm		ving.	
Borosilicate The glass s hose diame Capacity ml	e glass 3.3 with thick walls acc side arm and the Polypropylen eters. The Polypropylene side lateral connection	cording to ISO 6556 and DIN 12476 standards. e side arm is suitable to work with 6mm to 10mm	РК	bing. Cat. No.	
Borosilicate The glass s hose diame Capacity ml 100	e glass 3.3 with thick walls acc side arm and the Polypropylen eters. The Polypropylene side lateral connection glass	cording to ISO 6556 and DIN 12476 standards. e side arm is suitable to work with 6mm to 10mm	РК (bing. Cat. No. 1.008 437	
Borosilicate The glass s hose diame Capacity <u>ml</u> 100 250	e glass 3.3 with thick walls ac side arm and the Polypropylen eters. The Polypropylene side lateral connection glass glass	cording to ISO 6556 and DIN 12476 standards. e side arm is suitable to work with 6mm to 10mm	PK (oing. Cat. No. 4.008 437 5.241 652	
Borosilicate The glass s hose diame Capacity ml 100 250 500	e glass 3.3 with thick walls acc side arm and the Polypropylen eters. The Polypropylene side lateral connection glass glass glass	cording to ISO 6556 and DIN 12476 standards. e side arm is suitable to work with 6mm to 10mm	PK 0	Cat. No. 	
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4 Filte	er flasks, glass	5 DURAN	B		4
Heavy wall "equipment	ISO 6556. With PE for vacuum use. Th and product safety	ese filtering regulations	flasks fulfil the		лр
Capacity, 10	00ml to 2000ml:	Erlen	meyer shape		
Capacity, 30	000 to 20000 ml:	Bottl	e shape		
Capacity	Diam.	Neck diam.	Height	PK Cat. N	0.
ml	mm	mm	mm		
100	64	24	105	1 9.051 42	24
250	85 🦯	34	155	1 9.051 43	36
500	105	34	185	1 9.051 44	44
1000	135	45	230	1 9.051 45	54
2000	166	60	255	1 9.051 45	55
3000	170	58	295	1 9.051 45	56
5000	185	68	360	1 9.051 45	57
10000	240	70	420	1 9.051 45	58
1 5000					



9.051 459 9.051 460

1 9.051 471 1 9.051 474

5 Assembly set, KECK [®] and Replacement seal		5
For attaching flexible vacuum tubing to filter flasks. Consists of straight PP tubing connection, PP tubulature made of silicone (VMQ) rubber seal. PP components can withstand temperatures up to 140°C for short periods without mechanical load.	DURAN Group	(h
Туре	PK Cat. No.	

Assembly set, Keck[®] Replacement seal

70

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Filter flasks, glass DURAN®

DIN 12476. ISO 6556. Erlenmeyer shape. Heavy wall, for vacuum use. With ground 17.5/26 socket for vacuum tubing with 15mm to 18mm external diameter. These filtering flasks fulfil the regulations of the "equipment and product safety regulations". DURAN Group

DURAN Group

DURAN Group

Capacity	Diam.	Neck diam.	Height	PK Cat. No.
ml	mm	mm	mm	
250	85	34	155	1 9.051 236
500	105	34	185	1 9.051 244
1000	135	45	230	1 9.051 254
2000	166	60	255	1 9.051 263



Filter flasks with	side-arm	socket.	alass	DURAN®	
	Side unin	JUCKCL,	giuss		

Bottle shape. Heavy wall, for vacuum use. With ground 17.5/26 socket for vacuum tubing with 15mm to 18mm external diameter. These filtering flasks fulfil the regulations of the "equipment and product safety regulations".

Capacity	Diam.	Neck diam.	Height	РК	Cat. No.
ml	mm	mm	mm		
3000	170	58	295	1	9.051 268
5000	185	68	360	1	9.051 273
10000	240	70	420	1	9.051 286
15000	255	70	500	1	9.051 288
20000	290	70	535	1	9.051 291



Filter flask DURAN® 3

Witt-pattern. Complete with interchangeable, flat-ground jointed, tube lid with cone, and plastic flexible tubing connection on one side. Vacuum resistant.

DN	Height	Lid	PK	Cat. No.
2.1	mm			each mon
100	160	29/32	1	9.051 519
150	200	29/32	1	9.051 531
100	160	45/40	1	9.051 619
150	200	45/40	1	9.051 631

we can SUPPLY this manufacturer's whole product range ! : > DURAN GROUP

