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VIDRARIA VOLUMÉTRICA VOLUMETRIC GLASSWARE

BALÕES VOLUMÉTRICOS

VOLUMETRIC FLASKS

Norma de referência: ISO 1042

- Os balões volumétricos podem apresentar-se com junta cônica esmerilada e rolha de plástico ou vidro ou com rebordo.

- A classe de exactidão dos balões volumétricos é a classe A.

Mas a pedido poderão ser fabricados segundo os requisitos da classe B.

- São calibrados a conter (IN)

- Podem ser em vidro branco ou ambar.

Marca DINLAB - De acordo com a Norma ISO DIN 1 042

Reference standard ISO 1042

- The volumetric flasks are available with conical ground joint and plastic or glass stopper or beaded rim.

- The reference accuracy class is class A yet, and upon request, the volumetric flasks can be supplied according the class A demands.

- Calibrated to contain (IN)

- Manufactured in clear or amber glass.

Dinlab Brand - According to ISO DIN 1042 standard.

Com Rolha Plástico			Classe A - ISO 1 042		With Plastic Stopper	
Normax Vidro Branco Clear Glass	Skylab Vidro branco Clear glass	DINLAB Vidro branco Clear Glass	Normax Vidro Ambar Amber Glass	Cap. ml	Tol. + / - ml	IN
31 686 07	31 786 07	31 887 07	31 886 07	5	0,025	7/16
31 686 06	31 786 06	31 887 06		5	0,025	10/19
31 686 08	31 786 08	31 887 08	31 886 08	10	0,025	7/16
31 686 09	31 786 09	31 887 09	31 886 09	10	0,025	10/19
31 686 11	31 766 11	31 867 11		20	0,04	12/21
31 686 12	31 786 12	31 887 12	31 886 12	20	0,04	10/19
31 686 14	31 786 14	31 887 14	31 886 14	25	0,04	10/19
31 686 15	31 786 15	31 887 15		25	0,04	12/21
31 686 17	31 786 17	31 887 17	31 886 17	50	0,06	12/21
31 686 18	31 786 18	31 887 18	31 886 18	50	0,06	14/23
31 686 24	31 786 24	31 887 24	31 886 24	100	0,1	12/21
31 686 26	31 786 26	31 887 26	31 886 26	100	0,1	14/23
31 686 32	31 786 32	31 887 32	31 886 32	200	0,15	14/23
31 686 36	31 786 36	31 887 36	31 886 36	250	0,15	14/23
31 686 44	31 786 44	31 887 44		500	0,25	19/26
31 686 54	31 786 54	31 887 54		1000	0,4	24/29
31 686 63	31 786 63	31 887 63		2000	0,6	29/32
31 686 73	31 786 73	31 887 73		5000	1,2	34/35

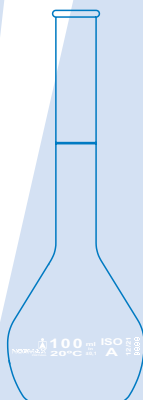
A pedido, a rolha poderá ser de vidro

On request, glass stopper is available

Com rebordo

With Rim

Ref. Normax Com rebordo With rim	Cap. ml	Tol. + / - ml	Quant. Cx. Bx.
31 687 07	5	0,025	1
31 687 08	10	0,025	1
31 687 12	20	0,04	6
31 687 14	25	0,04	6
31 687 17	50	0,06	6
31 687 24	100	0,1	6
31 687 32	200	0,15	6
31 687 36	250	0,15	6
31 687 44	500	0,25	6
31 687 54	1000	0,4	6
31 687 63	2000	0,6	2
31 687 73	5000	1,2	1





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PROVETAS GRADUADAS

MEASURING AND MIXING CYLINDERS

Norma de referência: ISO 4788

- As provetas são fabricadas com pé hexagonal de vidro.
- Com bico ou junta cônica esmerilada.
- São calibradas a conter (IN)

Marca DINLAB - De acordo com a

- The reference standard is ISO 4788.

- *The measuring cylinders are manufactured with glass hexagonal base.*
- *Are available with pouring spout or with conical ground joint.*
- *Calibrated to contain (IN)*

- Dinlab Brand -- According to DIN 12680-2 - Class A.

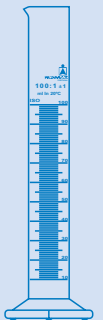
Base hexagonal, graduadas Vidro Borossilicato

Hexagonal base, graduated Borosilicate glass

ISO 4788

DIN 12 680-2 Cl. A

Cap.	Grad.	Tol. +/-	Normax Ambar Amber	Normax Azul Blue	Normax Branco White	Skylab Azul Blue	DINLAB Ambar Amber	Tol. +/- ml
5	0,1	0,1	51 396 07	51 696 07	51 896 07	51 796 07	51 996 07	0,05
10	0,2	0,2	51 396 08	51 696 08	51 896 08	51 796 08	51 996 08	0,1
25	0,5	0,5	51 396 14	51 696 14	51 896 14	51 796 14	51 996 14	0,25
50	1,0	1,0	51 396 17	51 696 17	51 896 17	51 796 17	51 996 17	0,5
100	1,0	1,0	51 396 24	51 696 24	51 896 24	51 796 24	51 996 24	0,5
250	2,0	2,0	51 396 36	51 696 36	51 896 36	51 796 36	51 996 36	1,0
500	5,0	5,0	51 396 44	51 696 44	51 896 44	51 796 44	51 996 44	2,5
1000	10,0	10,0	51 396 54	51 696 54	51 896 54	51 796 54	51 996 54	5,0
2000	20,0	20,0	51 396 63	51 696 63	51 896 63	51 796 63	51 996 63	10,0

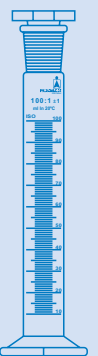


Com Rolha Base hexagonal, graduação Ambar

ISO 4788

With Stopper Hexagonal base, Amber graduation

Cap.	Grad.	Ref. Normax Rolha Plástico Plastic stopper	Ref. Normax Rolha Vidro Glass stopper	IN	Tol. +/- ml	Quant. Cx. Bx.
5	0,1	51 618 07	51 418 07	10 / 19	0,1	2 x 14
10	0,2	51 618 08	51 418 08	10 / 19	0,2	2 x 14
25	0,5	51 618 14	51 418 14	14 / 23	0,5	2 x 14
50	1,0	51 618 17	51 418 17	19 / 26	1,0	2 x 14
100	1,0	51 618 24	51 418 24	24 / 29	1,0	2 x 7
250	2,0	51 618 36	51 418 36	29 / 32	2,0	2 x 12
500	5,0	51 618 44	51 418 44	34 / 35	5,0	6
1000	10,0	51 618 54	51 418 54	45 / 40	10,0	1
2000	20,0	51 618 63	51 418 63	45 / 40	20,0	1



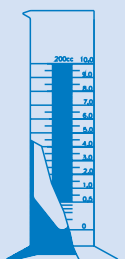
PLUVIOMÉTRICAS

Base redonda, graduação a branco

PLUVIOMETRIC

With round base, white graduation

Cap.	Ref	Quant.
ml		Cx./Bx.
200	51 398 26	10





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BURETAS

BURETTES

- As buretas podem apresentar-se com vários tipos de torneiras (ver tabela)

- The burettes can have different types of stopcocks (see table)

- As buretas são fabricadas segundo os requisitos da Classe A, com tempo de espera de 30s. A pedido dos clientes poderão ser fabricadas na Classe B, sem tempo de espera.

- The burettes are available according to the class A requirements and with a specified waiting time of 30s. Upon request, it can be supplied according to class B with no waiting time specification.

- Podem ser fabricadas com banda Schellbach para uma leitura mais cómoda e exacta.

- Available with Schellbach stripe to enable a better and easier reading accuracy.

- As buretas são calibradas a escoar (EX).

- Calibrated to deliver (EX).

- Existe uma correspondência entre as buretas classe A, pertencentes à norma ISO, com as buretas classe AS das normas DIN.

- The ISO burettes class A correspond to the class AS burettes according to DIN standards.

ESPECIFICAÇÕES TÉCNICAS

ISO 385

TECHNICAL SPECIFICATIONS

Vol. ml	Divisão Scale Division ml	Tolerancia Tolerance ml +/-		Tempo de escoam. Delivery time (s)		Quant. Cx Box
		A	B	A	B	
2	0,01	0,01	0,02	25 - 45	25 - 70	6
5	0,02	0,01	0,02	40 - 60	40 - 95	6
10	0,02	0,02	0,05	40 - 60	40 - 95	6
10	0,05	0,02	0,05	45 - 60	45 - 75	6
25	0,05	0,03	0,05	35 - 55	35 - 100	6
25	0,1	0,05	0,1	25 - 45	25 - 75	6
50	0,1	0,05	0,1	30 - 50	30 - 100	2
100	0,2	0,1	0,2	30 - 50	30 - 100	2

Classe A

Vol. ml	Torneira direita (Mod. 1) Straight stopcock Rosca / spindle PTFE	Torneira direita (Mod. 2) Straight stopcock Vidro / Glass	Torneira direita (Mod. 2) Straight stopcock Macho / Key PTFE	Torneira lateral (Mod. 3) Lateral stopcock Vidro / Glass	Torneira lateral (Mod. 4) Lateral stopcock Rosca / spindle PTFE
2	54 329 16	54 328 16	54 330 16	54 326 16	54 327 16
5	54 329 22	54 328 22	54 330 22	54 326 22	54 327 22
10 (0,02)	54 329 27	54 328 27	54 330 27	54 326 27	54 327 27
10 (0,05)	54 329 29	54 328 29	54 330 29	54 326 29	54 327 29
25 (0,1)	54 329 33	54 328 33	54 330 33	54 326 33	54 327 33
25 (0,05)	54 329 34	54 328 34	54 330 34	54 326 34	54 327 34
50	54 329 36	54 328 36	54 330 36	54 326 36	54 327 36
100	54 329 39	54 328 39	54 330 39	54 326 39	54 327 39

Com Funil

Flared Top

Vol. ml	Torneira direita (Mod. 1) Straight stopcock Rosca / spindle PTFE	Torneira direita (Mod. 2) Straight stopcock Vidro / Glass	Torneira direita (Mod. 2) Straight stopcock Macho / Key PTFE	Torneira lateral (Mod. 3) Lateral stopcock Vidro / Glass	Torneira lateral (Mod. 4) Lateral stopcock Rosca / spindle PTFE
2	54 729 16	54 728 16	54 730 16	54 726 16	54 727 16
5	54 729 22	54 728 22	54 730 22	54 726 22	54 727 22
10 (0,02)	54 729 27	54 728 27	54 730 27	54 726 27	54 727 27
10 (0,05)	54 729 29	54 728 29	54 730 29	54 726 29	54 727 29
25 (0,1)	54 729 33	54 728 33	54 730 33	54 726 33	54 727 33
25 (0,05)	54 729 34	54 728 34	54 730 34	54 726 34	54 727 34
50	54 729 36	54 728 36	54 730 36	54 726 36	54 727 36
100	54 729 39	54 728 39	54 730 39	54 726 39	54 727 39

Classe B: Substituir o primeiro nr.(3) por (4)
Banda Schellbach: Para uma leitura mais exacta, acrescentar 1 ao cód.

Class B: Replace the first number (3) by (4)
Schellbach: for the best reading accuracy.
Add 1 to the ref.code

BURETAS AUTOMÁTICAS

Com zero ajustável
Sem reservatório

Classe A - ISO 385

AUTOMATIC BURETTES

With adjustable zero point
Without reservoir bottle

Ref. Azul Blue Printing	Ref. Ambarizadas Amber coloured	Cap. ml	Grad. ml	Quant. Cx. Bx.
34 318 27	34 418 27	10	0,05	2
34 318 33	34 418 33	25	0,1	2
34 318 34	34 418 34	25	0,05	2
34 318 36	34 418 36	50	0,1	2

Com torneira de 2 vias

Classe A - ISO 385

With two-way stopcock

Ref.	Cap. ml	Grad. ml	Quant. Cx. Bx.
34 501 27	10	0,05	1
34 501 33	25	0,1	1
34 501 36	50	0,1	1
34 501 39	100	0,2	1

Micro

Classe A

Micro

Ref. Macho vidro Glass key	Ref. Macho PTFE PTFE key	Cap. ml	Grad. ml	Quant. Cx. Bx.
34 319 11	34 317 11	1	0,01	3
34 319 16	34 317 16	2	0,01	6
34 319 22	34 317 22	5	0,02	1
34 319 27	34 317 27	10	0,02	1

Modelo Dr. Schilling

Classe B

Acc. Dr. Schilling

Ref.	Cap. ml	Grad. ml	Cap. reservatório Flask capacity ml	Quant. Cx. Bx.
30 869 22	5	0,05	500	1
30 869 27	10	0,1	500	1
30 869 30	15	0,1	500	1
30 869 33	25	0,1	1000	1
30 869 36	50	0,1	1000	1



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TEMPO DE ESCOAMENTO

ISO 835

DELIVERY TIME

Cap. ml	Grad. ml	Escoamento Total / Complete delivery		Escoamento Parcial Partial delivery	
		S/ tempo de espera Without waiting time A	Tempo de espera de 15 s Waiting time 15 sec B	A	B
0,1*	0,001	2 - 8	2 - 10	2 - 8	
0,2*	0,001	2 - 8	2 - 10	2 - 8	
0,5	0,01	2 - 8	2 - 10	2 - 8	
1	0,01	5 - 7	2 - 10	2 - 8	7 - 10
1*	0,1	5 - 7	2 - 10	2 - 8	7 - 10
2	0,02	6 - 9	2 - 12	2 - 8	8 - 12
2*	0,01	6 - 9	2 - 12	2 - 8	8 - 12
2*	0,1	6 - 9	2 - 12	2 - 8	8 - 12
5	0,05	8 - 11	5 - 14	5 - 11	10 - 14
5*	0,1	8 - 11	5 - 14	5 - 11	10 - 14
10	0,1	10 - 13	5 - 17	5 - 11	13 - 17
20*	0,1	9 - 15	9 - 21	9 - 15	9 - 21
25	0,1	11 - 16	9 - 21	9 - 15	15 - 21
25	0,2	11 - 16	9 - 21	9 - 15	15 - 21
50*	0,1	15 - 40			
50*	0,2	15 - 40			

* Não normalizado

* Non ISO

Para Escoamento Total

For Complete Delivery

Tempo de espera de 15 seg.
Zero em cima

Classe A
Graduadas a escoar (Ex+15)
Calibrated to deliver

Waiting time 15 sec.
Zero at the top

Cap. ml	Grad. ml	Ref. Normax		Ref. Normax		Ref. Skylab	
		Ambar Amber	CE	Azul Blue	CE	Azul Blue	Branco White
0,5	0,01	54 343 05		54 543 05		54 943 05	
1	0,01	54 343 11		54 543 11		54 743 11	
1*	0,1	54 343 11F		54 543 11F		54 743 11F	
2*	0,01	54 343 16		54 543 16		54 743 16	
2*	0,1	54 343 16F		54 543 16F		54 743 16F	
5	0,05	54 343 24		54 543 24		54 743 24	
5*	0,1	54 343 24F		54 543 24F		54 743 24F	
10	0,1	54 343 29		54 543 29		54 743 29	
20*	0,1	54 343 32		54 543 32		54 743 32	
25	0,1	54 343 34		54 543 34		54 743 34	
25	0,2	54 343 36		54 543 36		54 743 36	
50*	0,1	54 343 38		54 543 38			
50*	0,2					54 743 38	54 843 38

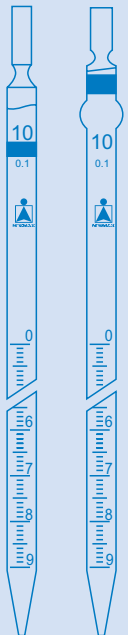
Classe AS - DIN Graduadas a escoar (Ex+15) Calibrated to deliver

Cap. ml	Grad. ml	Ref. DINLAB Ambar Amber	CE
0,5	0,01	54 243 05	
1	0,01	54 243 11	
2*	0,01	54 243 16	
5	0,05	54 243 24	
10	0,1	54 243 29	
20*	0,1	54 243 32	
25	0,1	54 243 34	

- Com **bola de segurança**: substituir o 1º nr.5 por 6;
- Com **pistão** substituir o primeiro 5 por 7
- With **safety bulb**: replace the first 5 by 6;
- For **piston operated pipettes**: replace first 5 by 7

- Banda Schellbach:

Para uma leitura mais exacta acrescentar 1 `referência
Schellbach:
For best reading accuracy add 1 to the reference code





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VIDRARIA VOLUMÉTRICA VOLUMETRIC GLASSWARE

Para Escoamento Total

Sem tempo de espera

*Graduadas a escoar
Calibrated to deliver*

Zero em baixo / Zero At the bottom

Cap. ml	Grad. ml	Ref. Normax Ambar/Amber	
		A €	B
0,1**	0,001	54 443 01	54 443 015
0,2**	0,001	54 443 03	54 443 035
0,5	0,01	54 443 05	54 443 055
1	0,01	54 443 11	54 443 115
2*	0,01	54 443 16	54 443 165
5	0,05	54 443 24	54 443 245
10	0,1	54 443 29	54 443 295
20*	0,1	54 443 32	54 443 325
25	0,1	54 443 34	54 443 345
25	0,2	54 443 36	54 443 365
50*	0,1	54 443 38	54 443 385

** Calibradas a conter (In)

* Não normalizado

For Complete Delivery

Without waiting time

Zero em cima / Zero at the top

Cap. ml	Grad. ml	Ref. Normax Bico Largo Ambar/Amber	
		A €	B
0,5	0,01	54 643 05	54 343 055
1	0,01	54 643 11	54 343 115
1*	0,1		54 343 115F
2	0,02		54 343 165
2*	0,01	54 643 16	54 343 165F
2*	0,1		54 343 165F
5	0,05	54 643 24	54 343 245
5*	0,1		54 343 245F
10	0,1	54 643 29	54 343 295
20*	0,1	54 643 32*	54 343 325
25	0,1	54 643 34	54 343 345
25	0,2	54 643 36	54 343 365
50*	0,1	54 643 38	54 343 385

** Calibrated to contain (In)

* Non ISO

Sem tempo de espera

*Graduadas a conter (IN)
Calibrated to contain*

Zero em cima

Without waiting time

Zero at the top

Cap. ml	Ref. Normax Ambar/Amber		Ref. Normax Azul / Blue A €	Ref. Normax Branco / White A	Ref. Skylab Azul / Blue A	Ref. Skylab Branco / White A
	A €	B				
0,1*	54 343 01	54 343 015	54 543 01	54 943 01	54 743 01	54 843 01
0,2*	54 343 03	54 343 035	54 543 03	54 943 03	54 743 03	54 843 03

* Não normalizado

* Non ISO

Para Escoamento Parcial

For Partial Delivery

Cap. ml	Grad. ml	Ref. Normax Ambar/Amber A	Ref. Normax Ambar/Amber B
0,1**	0,001	54 344 01	54 344 015
0,2**	0,001	54 344 03	54 344 035
0,5	0,01	54 344 05	54 344 055
1	0,01	54 344 11	54 344 115
1*	0,1	54 344 11F	
2*	0,01	54 344 16	54 344 165
2*	0,1	54 344 16F	
5	0,05	54 344 24	54 344 245
5*	0,1	54 344 24F	
10	0,1	54 344 29	54 344 295
20*	0,1	54 344 32	54 344 325
25	0,1	54 344 34	54 344 345
25	0,2	54 344 36	54 344 365
50*	0,1	54 344 38	54 344 385

* Não normalizado

** Calibradas a conter (In)

* Non ISO

** Calibrated to contain (In)



VIDRARIA VOLUMÉTRICA VOLUMETRIC GLASSWARE

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PIPETAS VOLUMÉTRICAS

VOLUMETRIC PIPETTES

- A norma internacional de referência para as pipetas volumétricas é a ISO 648.

Esta, contempla as pipetas com um traço. Adicionalmente, estão disponíveis com dois traços cumprindo os mesmos requisitos de exactidão.

- As pipetas volumétricas são calibradas a escoar (EX)

- Cada pipeta possui uma tarja identificativa por código de cores, em conformidade com a ISO 1769.

- Podem ser fabricadas com bola de segurança e/ou êmbolo.

- The reference standard for volumetric pipettes with one mark is ISO 648.

Additionally, volumetric pipettes with two marks are also available meeting the same accuracy requirements.

- Calibrated to deliver (EX).

- Each and every volumetric pipette has a colour-code identification border according to ISO 1769.

- Safety bulb and/or piston are available, upon request.

ESPECIFICAÇÕES E CAPACIDADES DISPONÍVEIS

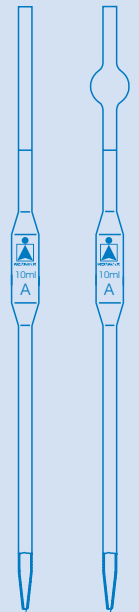
SPECIFICATIONS AND AVAILABLE SIZES

Sem tempo de espera

ISO 648

No waiting time

Cap. ml	Tol. + / - ml		T. escoam. Deliv. time		Quant. Cx. Bx.	Cor código Colour code ISO 1769
	A	B	A	B		
1	0,008	0,015	10 - 20	5 - 20	30	Azul / Blue
2	0,01	0,02	10 - 25	5 - 25	30	Laranja / Orange
3*	0,015	0,03	10 - 25	5 - 25	30	Preto / Black
5	0,015	0,03	15 - 30	7 - 30	30	Branco / White
10	0,02	0,04	15 - 40	8 - 40	20	Vermelho / Red
15*	0,03	0,06	25 - 50	9 - 50	20	Verde / Green
20	0,03	0,06	25 - 50	9 - 50	30	Amarelo / Yellow
25	0,03	0,06	25 - 50	10 - 50	30	Azul / Blue
50	0,05	0,1	30 - 60	13 - 60	20	Vermelho / Red
100	0,08	0,15	40 - 60	25 - 60	15	Amarelo / Yellow



Um traço / One Mark

Um Traço / One Mark

ISO 648

Dois Traços / Two Marks

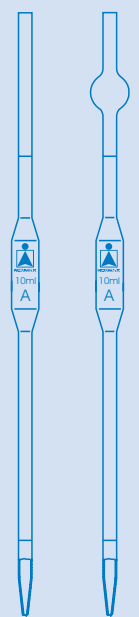
Cap. ml	Ref. Normax Classe/Class A	Ref. Normax Classe/Class B	Ref. Skylab Classe/Class A	Cap. ml	Ref. Normax Classe/Class A	Ref. Normax Classe/Class B
1	34 337 01	34 337 015	34 737 01	1	34 338 01	34 338 015
2	34 337 02	34 337 025	34 737 02	2	34 338 02	34 338 025
3*	34 337 03	34 337 035	34 737 03	3	34 338 03	34 338 035
5	34 337 07	34 337 075	34 737 07	5	34 338 07	34 338 075
10	34 337 08	34 337 085	34 737 08	10	34 338 08	34 338 085
15*	34 337 09	34 337 095	34 737 09	15	34 338 09	34 338 095
20	34 337 12	34 337 125	34 737 12	20	34 338 12	34 338 125
25	34 337 14	34 337 145	34 737 14	25	34 338 14	34 338 145
50	34 337 17	34 337 175	34 737 17	50	34 338 17	34 338 175
100	34 337 24	34 337 245	34 737 24	100	34 338 24	34 338 245

* Não normalizado

* Non ISO

Com bola de segurança, substituir o 1º n.º "3" por "6"
Com pistão, substituir o 1º n.º "3" por "7"

With safety bulb, replace the first "3" by "6"
For piston operated pipettes, replace the first "3" by "7"

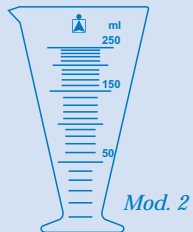
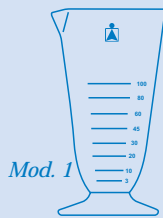


Dois traços / Two Marks



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VIDRARIA VOLUMÉTRICA VOLUMETRIC GLASSWARE



COPOS TIPO SINO

MEASURES, CONICAL

Ref. Graduados a azul Blue printing (Mod. 1)	Ref. Moldados Molded (Mod. 2)	Cap. ml	Quant. Cx. Bx.
40 111 14	40 101 14	25	10
40 111 17	40 101 17	50	10
	40 101 20	60	10
40 111 24	40 101 24	100	10
40 111 21	40 101 21	125	24
40 111 36	40 101 36	250	24
40 111 44	40 101 44	500	10
40 111 54		1000	6
40 111 63		2000	4

CONE DE SEDIMENTAÇÃO

SEDIMENTATION CONE

Modelo Imhoff

Cap. 1000 ml

Acc. Imhoff

Ref. Sem torneira Without stopcock	Ref. Com torneira With stopcock	Ø Máx. mm	Quant. Cx. Bx.
37 100 00	37 200 00	120	1

PIPETAS V.S.

BLOOD SEDIMENTATION PIPETTES

Modelo Westergreen

Acc. Westergreen

Ref.	Grad. mm	Comp Length mm	Quant. Cx. Bx.
34 120 10 Micro	0-100	150	100
34 121 20 Macro	0-200	300	100

PIPETAS DE HEMOGLOBINA

CAPILLARY PIPETTES

Modelo Sahli

Acc. Sahli

Ref.	Grad. ul	Cor-código Colour-code	Quant. Cx. Bx.
34 101 00	20	Preto / Black	100



TUBOS TUBES

2

TUBOS DE ENSAIO

TEST TUBES

Ref. Soda 0,60mm	Ref. Soda 0,80mm	Ref. Soda 1,0mm	Ref. Borosilicato	Ø Ext. x Comp. O.D. x L. mm	Quant. Cx Box
31 602 01	31 603 01		56 110 01	8 x 70	100
31 602 11	31 603 11			9 x 65	100
31 602 02	31 603 02		56 110 03	10 x 75	100
31 602 03	31 603 03		56 110 06	10 x 100	100
31 602 12	31 603 12			11 x 75	100
31 602 04	31 603 04		56 110 08	12 x 75	100
31 602 05	31 603 05		56 110 11	12 x 100	100
31 602 13	31 603 13		56 110 12	12 x 120	100
	31 603 15			15 x 100	100
	31 603 16			15 x 125	100
31 602 14	31 603 14		56 110 38	15 x 150	100
31 602 06	31 603 06		56 110 16	16 x 100	
	31 603 17			16 x 150	100
31 602 07	31 603 07		56 110 21	16 x 160	100
31 602 08	31 603 08	32 603 08	56 110 23	18 x 180	100
31 602 09	31 603 09	32 603 09	56 110 26	20 x 150	100
31 602 10	31 603 10	32 603 10	56 110 29	20 x 200	100
			56 110 34	22 x 220	100
			56 110 36	25 x 200	

TUBOS DE ENSAIO

TEST TUBES

Com marcação

Graduated

Ref.	Marcação ml	Ø Ext. x Comp. O.D. x L. mm
50 600 20	0,4 e 2	12 x 100
50 600 21	5 e 10	16 x 160
50 600 22	10	16 x 160
50 600 23	10	18 x 180
50 600 24	10 e 20	18 x 180

Com Esmerilado

With Standard Ground Joint

Ref.	Cap. ml	IN	Comp. x L. mm	Ø Ext. mm
452 01	2	10 / 19	65	14
452 02	5	10 / 19	100	14
452 03	10	12 / 21	100	17
452 04	11	14 / 23	100	18
452 05	15	14 / 23	125	18
452 06	19	14 / 23	150	18
452 07	19	19 / 26	100	22
452 08	31	19 / 26	150	22
452 09	45	24 / 29	150	28
452 10	75	24 / 29	200	30
452 11	190	34 / 35	250	40



2

TUBOS TUBES



Com Esmerilado Normalizado
Saída Lateral

With Standard Ground Joint
With Hose Connection

Ref.	Cap. ml	IN	Comp. x L. mm
458 00	10	14 / 23	130



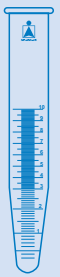
TUBOS DE CENTRÍFUGA

CENTRIFUGE TUBES

Fundo cónico

Conical bottom

Ref. Boro	Ref. Soda	Ø Ext. x Comp. O.D. x L. mm	Quant. Cx./Bx.
30 177 08	30 178 08	16 x 110	198
30 177 11	30 178 11	17 x 115	170



Fundo Cónico, Graduados

Conical Bottom, Graduated

Ref. Boro	Ref. Soda	Cap. ml	Ø Ext. x Comp. O.D. x L. mm	Quant. Cx./Bx.
30 367 11		15	17 x 115	100
30 177 08G		12	16 x 110	198
	30 178 08G	12	16 x 110	198
34 263 11G		10	16 x 100	100



Fundo cónico
Com rolha de plástico

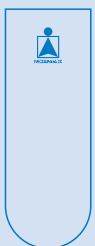
Conical bottom
With plastic stopper

Ref. Lisos Plain	Ref. Graduados Graduated	Cap. ml	Ø Ext. x Comp. O.D. x L. mm	Esp. Thick. mm
30 369 08	30 376 08	10	16 x 123	1 - 1,2
30 369 11	30 376 11	15	17 x 138	1 - 1,2

Fundo Redondo

Round Bottom

Ref. Borosilicato	Cap. ml	Ø Ext. x Comp. O.D. x L. mm	Esp. Thick. mm
31 601 10	6	12 x 100	1,3 - 1,5
31 601 11	12	16 x 100	1,6 - 1,8
31 601 14	25	24 x 100	1,6 - 1,8
31 601 17	50	34 x 100	1,8 - 2,0
31 601 24	80	40 x 115	2,0 - 2,3
31 601 26	80	44 x 100	2,0 - 2,3
31 601 36	250	56 x 147	2,2 - 2,5





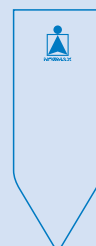
TUBOS TUBES

2

Fundo cónico, ângulo 60°

Conical bottom, angle 60°

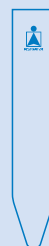
Ref. Borosilicato	Cap. ml	Ø Ext. x Comp. O.D. x L. mm
31 611 14	25	24 x 100
31 611 17	50	34 x 100
31 611 24	80	40 x 115
31 611 26	80	44 x 100



Fundo cónico, ângulo 30°

Conical bottom, angle 30°

Ref. Borosilicato	Ref. Soda	Cap. ml	Ø Ext. x Comp. O.D. x L. mm	Quant. Cx./Bx.
34 263 11	30 179 11	12	16 x 100	250



TUBOS DE DURHAM

DURHAM TUBES

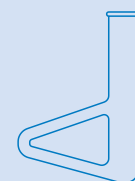
Ref. Sem bisel Without bevel edge	Ref. Com bisel With bevel edge	Ø Ext. x Comp. O.D. x L. mm
56 112 01	56 120 01	6 x 50
56 112 02	56 120 02	7 x 35
56 112 03	56 120 03	10 x 45



TUBOS DE THIELE

THIELE TUBES

Ref.	Comp. x Diam. Tubo de medição Measuring tube	Diam. Tubo de convecção Convection tube
90 630 43	145 x 26 mm	10



TUBOS EM U

U TUBES

Ref. Esmerilado macho Male	Ref. Esmerilado fêmea Female	Medida Size IN	Alt. / H. Macho / Male IN	Alt. / H. Fêmea/ Female IN
30 859 01	30 860 01	14 / 23	115	140
30 859 02	30 860 02	19 / 26	130	180
30 859 03	30 860 03	29 / 32	150	295



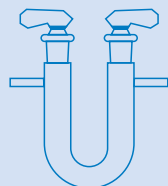


2

TUBOS TUBES

Com Rolha Vidro
Com Saídas Laterais

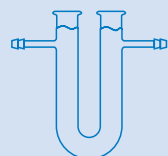
With Glass Stoppers
With Hose Connections



Ref.	Medida Size IN	Comp. L. mm
30 861 01	12 / 21	100
30 861 02	14 / 23	100
30 861 03	14 / 23	180
30 861 04	19 / 26	250

Com Saídas

With Connections



Ref. Saída lateral Lateral	Ref. Saída em baixo Down	Ref. Sem tubuladura W/o hose connection	Diam O.D. mm	Comp. L. mm
30 862 10	30 863 21	30 863 25	10	80
30 862 12	30 863 12	30 863 26	12	100
30 862 13	30 863 13	30 863 27	12	120
30 862 14	30 863 14	30 863 28	14	100
30 862 15	30 863 15	30 863 29	14	120
30 862 16	30 863 16	30 863 30	16	120
30 862 17	30 863 17	30 863 31	16	150
30 862 18	30 863 18	30 863 32	18	150
30 862 19	30 863 19	30 863 33	18	250
30 862 20	30 863 20	30 863 34	20	180

Com tubuladura inferior
Com torneira

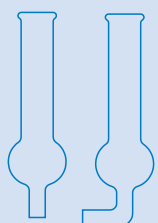
With bottom hose connection
With stopcock



Ref.	Ø Tubo Ø Tube	Alt. Total Total Height
90 650 77	20	300
90 650 78	16	300

TUBOS DE SECAGEM

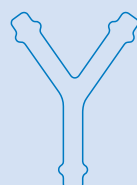
DRYING TUBES



Ref. Com bola curva 1 bulb bent	Ref. Com bola direita 1 bulb straight	Ø mm	Comp. L. mm
56 130 01	56 131 01	13	100
56 130 02	56 131 02	13	130
56 130 03	56 131 03	18	180
56 130 04	56 131 04	18	250

TUBOS EM Y

Y TUBES



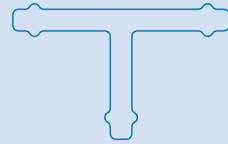
Ref.	Ø Ext. / O.D. mm	Comp. L. mm
30 863 10	10	115


**TUBOS
TUBES**

2

TUBOS EM T
T TUBES

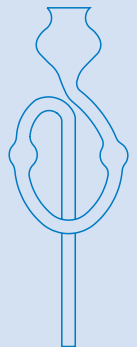
Ref.	Ø Ext. / O.D. mm	Comp. L. mm
30 864 10	10	115


TUBOS DE ROUX
ROUX TUBES

Ref.	Ø Ext. / O.D. mm	Comp. L. mm
56 140 01	22	220


TUBOS DE SEGURANÇA EM S
S SAFETY TUBES
Com 2 bolas
With 2 bulbs

Ref.	Comp. L. mm
90 650 16	230
90 650 10	355

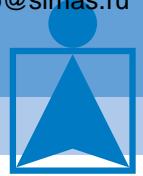

TUBOS DE NESSLER
COLOUR TUBES, NESSLER
FORMA BAIXA
SHORT FORM

Ref. Sem bico Without spout	Ref. Com bico With spout	Cap. ml	Marcação a Mark at ml	Ø mm	Alt. H. mm
56 170 01	56 172 01	50	50	25	175
56 170 02	56 172 02	100	100	32	200
56 170 03	56 172 03	100	50 + 100	32	200

FORMA ALTA
TALL FORM

Ref. Sem bico Without spout	Ref. Com bico With spout	Cap. ml	Marcação a Mark at ml	Ø mm	Alt. H. mm
56 171 01	56 173 01	50	50	20	300
56 171 02	56 173 02	100	100	24	375
56 171 03	56 173 03	100	50 + 100	24	375

50 ml



2

TUBOS TUBES



TUBOS DE FOLIN WU

FOLIN WU TUBES

Ref.	Marcação a Mark at ml	Ø mm	Alt. H. mm
34 271 21	25	18	200
34 271 22	12,5 - 25	18	200
34 271 23	4 - 12,5 - 25	18	200

TUBOS PARA CULTURAS

CULTURE TUBES

Com rosca ISO

Tampa em plástico para 180°

With ISO threads

180° plastic cover

Ref. Borosilicato	Ref. Soda	Ø Ext. x Alt. O.D. x Height mm	Rosca Thread ISO / GL	Quant. Cx./Bx.
36 135 125	36 235 125	12 x 100	GL -14	299
36 135 165	36 235 165	16 x 100	GL -18	264
36 135 215	36 235 215	16 x 160	GL -18	264
36 135 235	36 235 235	18 x 180	GL -18	250
36 135 295	36 235 295	20 x 200	GL -18	180

A pedido, podem fabricar-se outras medidas e/ou com tampa metálica
On request, other dimensions and metallic threaded caps are available

TUBOS COM BORDA PRENSADA

TUBES WITH PRESSED RIM

Ref.	Diam. x comp. Diam. x L. mm
90 650 70	42 x 298
54 361 50	36 x 150
54 363 30	36 x 330
54 450 00	54 x 450
54 500 00	54 x 500
54 520 00	54 x 520
54 550 00	54 x 550
54 600 00	54 x 600
54 740 00	54 x 740
54 750 00	54 x 750
54 900 00	54 x 900

PROVETA GÁS

GAS TUBE

Ref.	Cap. ml	Quant. Cx./Bx.
90 600 14	60	96
90 600 17	125	48
90 600 18	250	56

TUBOS PARA BIÓPSIA

BIOPSY TUBES

Ref.	Ø Ext. Ext. O.D. mm	Alt. H. mm
41 432 26	44	85
41 432 28	44	100
41 432 30	56	100



DESTILADOR DE ÁGUA WATER DISTILLER

3

DESTILADOR DE ÁGUA "NORMAX"

WATER DISTILLER "NORMAX"

4 Litros hora

Sistema de controlo automático

4 litres hour

Automatic control system

DESTILNORMA MODELO L304

Capacidade / Distillate Output 4 l/h

Qualidade da água destilada / Distilled water quality

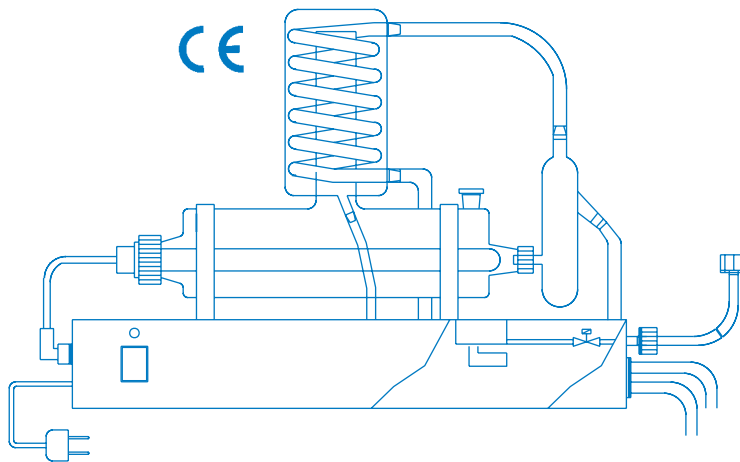
PH	5,50 a 6,60
Condutividade / Conductivity	0,10 - 0,50
Livre de bactérias / Pyrogen free	Sim / Yes
Temperatura / Temperature	25° a 30°C

Serviços requeridos / Required conditions

Energia / Electrical data	220/240V ~ 50-60Hz 15A
Pressão de água / Water pressure	1,5kg./cm ²
Água fria / Cold water	1,0 l/min.

Geral / General data

Dimensões (L/C/A)/ Dimensions (w/l/h)	600x175x460mm
Peso (aprox.) kg / Approx. Weight	7,9kg



Nr.	Descrição / Description	Código / Code
1	Interruptor ON/OFF / Switch ON/OFF	70007
2	Depósito / Tank	9065008
3	Resistência manga Quartz Resistance in Quartz tube	9200000
4	Indicador de passagem de corrente na resistência Power warning signal	70019
5	Rosca GL 45 e vedante da fixação da resistência Resistance fixation seal and GL 45 thread cap	70003
6	Braçadeiras / Clamps	70004
7	Pressostato de protecção / Protection pressure switch	70020
8	Elemento refrigerador / Cooling coil	9065007
9	Tubos de circulação de água / Water circulation tubes	70018
10	Tampa de entrada de lavagem / Tank cover cap	70022
11	Rosca GL 25 e vedante de fixação do tubo de nível Levelling tube fixation seal and GL 25 thread cap	70023
12	Tubo de entrada de água / Water admission tube	70012
13	Válvula de corte geral de água / Water valve	70013
14	Estrutura metálica de suporte / Metallic structure	70016
15	Ficha de Alimentação/ Electric plug	70005
16	Tubo de nível / Levelling tube	9065006
17	Tomada de corrente da resistência / Resistance power socket	
18	Saída de água destilada / Distilled water outlet	
19	Saída de água de refrigeração / Cooling water outlet	



MICROSCOPIA E MICROBIOLOGIA MICROSCOPY AND MICROBIOLOGY

4

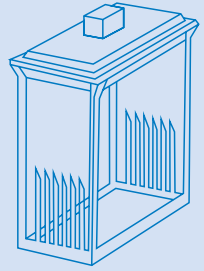
TINAS PARA CROMATOGRAFIA

SEPARATING CHAMBERS FOR CHROMATOGRAPHY

Com tampa

With cover

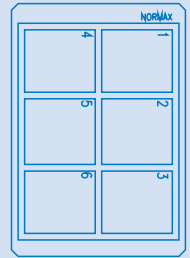
Ref.	Medida Size mm
44 311 00	Ø 200 x 200
44 311 01	Ø 100 x 100



PLACAS SEDIMENTAÇÃO URINÁRIA

URINE SEDIMENTATION PLATES

Ref. €	Medida Size mm	Cor de impressão Printing colour
90 750 01	77 X 54	Vermelho / Red



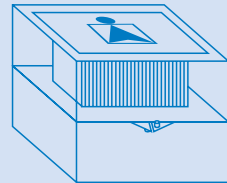
LAMELAS PARA MICROSCOPIA

MICROSCOPE COVER GLASSES

Esp. 0,13 - 0,17mm

Thick. 0,13 - 0,17mm

Ref. €	Comp. x Larg. L. x W. mm	Quant. Cx. exterior Outer carton
54 700 01	12 x 12	48 x 100
54 700 02	12 x 23	48 x 100
54 700 03	18 x 18	48 x 100
54 700 10	18 x 24	48 x 100
54 700 04	20 x 20	48 x 100
54 700 20	20 x 24	48 x 100
54 700 11	21 x 26	48 x 100
54 700 05	22 x 22	48 x 100
54 700 12	22 x 32	48 x 100
54 700 13	22 x 40	48 x 100
54 700 21	22 x 50	48 x 100
54 700 22	22 x 60	48 x 100
54 700 23	22 x 64	48 x 100
54 700 06	24 x 24	48 x 100
54 700 07	24 x 32	48 x 100
54 700 14	24 x 36	30 x 100
54 700 15	24 x 40	30 x 100
54 700 08	24 x 50	30 x 100
54 700 16	24 x 60	30 x 100
54 700 17	25 x 40	30 x 100
54 700 18	25 x 50	30 x 100
54 700 19	25 x 60	30 x 100

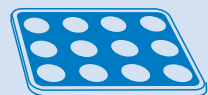


FABRICADO COM VIDRO ÓPTICO, EMBALADO EM CAIXAS DE PLÁSTICO DE 100 PCS.
MANUFACTURED WITH OPTICAL GLASS, PACKED IN PLASTIC BOXES WITH 100 PCS.



PLACAS COM DOZE GODETS

PLATES WITH TWELVE GODETS



Ref.	Comp. Length mm	Larg. W. mm	Esp. Thick. mm	Quant. Cx./Bx.
44 202 07	80	60	5	10 x 10

LÂMINAS PARA MICROSCOPIA

MICROSCOPE SLIDES

76 x 26mm

Esp. 0,95 - 1,05mm

76 x 26mm

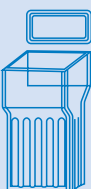
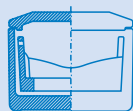
Thick. 0,95 - 1,05mm

Ref. €	Acabamento Edges	Quant. Cx./Bx.	Quant. Cx. exterior Outer carton.
54 701 07	Bordos cortados	50	48 x 50
54 701 08	Cut edges	100	27 x 100
54 702 07	Bordos esmerilados	50	48 x 50
54 702 08	Ground edges	100	27 x 100
54 703 05	Bordos cortados, canto fosco em 20mm	50	48 x 50
54 703 06	Cut edges, frosted end 20mm	100	27 x 100
54 703 07	Bordos esmerilados, canto fosco em 20mm	50	48 x 50
54 703 08	Ground edges, frosted end 20mm	100	27 x 100
54 704 05	Bordos cortados, totalmente foscas	50	48 x 50
54 704 06	Cut edges, totally frosted	100	27 x 100
54 704 07	Bordos esmerilados, totalmente foscas	50	48 x 50
54 704 08	Ground edges, totally frosted	100	27 x 100

TINAS DE VIDRO

STAINING JARS

Ref.	Tipo Type	Para For	Quant. Cx. Bx.
44 307 00	Schieferdecker	10 lâminas / slides	20
44 308 00	Coplin	5 lâminas / slides	10
44 309 00	2 Partes / 2 Parties / Completo / Complete	10 lâminas / slides	10
44 309 01	Tampa / Cover		
44 309 02	Base / Dish		
44 309 03	Tampa e Base / Cover and Dish		
44 309 04	Suporte com metal / Glass tray with metal handle		
44 309 05	Asa de metal / Metal handle		
44 310 00	Hellendahl	8 lâminas / slides	10





MICROSCOPIA E MICROBIOLOGIA MICROSCOPY AND MICROBIOLOGY

4

TINAS DE VIDRO RECTANGULARES

RECTANGULAR GLASS TROUGHS

Ref.	Comp. L. mm	Larg. W. mm	Alt. H. mm	Quant.	
				Cx.	Bx.
90 950 34	100	40	50	10	
44 306 00	140	70	45	10	
44 306 01	200	100	50	10	




CAIXAS DE PETRI

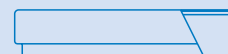
PETRI DISHES

Vidro Soda

DIN 12339

Soda glass

Ref. 	Alt. x Diam. H x O.D. mm	Quant.	
		Cx./Bx.	
50 585 01	12 x 40	144	
50 585 41	15 x 60	144	
50 585 43	15 x 80	144	
50 585 44	10 x 100	144	
50 585 45	15 x 100	72	
50 585 46	15 x 90	36	
50 585 48	20 x 100	36	
50 585 50	20 x 120	72	
50 585 58	25 x 150	36	
50 585 59	30 x 180	6	
50 585 60	30 x 200	6	
50 585 61	50 x 200	6	



VIDROS DE RELÓGIO

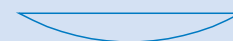
WATCH GLASSES

Bordos queimados

DIN 12341

Glazed rims

Ref.	Diam. O.D. mm	Quant.	
		Cx./Bx.	
41 321 24	40	44 x 10	
41 321 32	50	44 x 10	
41 321 34	60	34 x 10	
41 321 36	70	17 x 10	
41 321 41	80	17 x 10	
41 321 44	90	17 x 10	
41 321 46	100	12 x 10	
41 321 50	120	18 x 10	
41 321 52	125	18 x 10	
41 321 57	150	17 x 10	
41 321 61	200	50 x 10	
41 321 66	250	1 x 10	





FILTRAÇÃO FILTRATION

5

BALÃO KITASATO

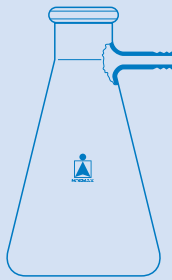
Com oliva lateral
Para vácuo
Vidro Borossilicato 3.3

ISO 6556

FILTERING FLASKS

With hose connection
for vacuum use
Borosilicate glass 3.3

Ref.	Cap. ml	Máx. Ø Ext. / O.D. mm	Alt. H. mm	Ø Int. colo Neck I.D. mm	Quant. Cx. Bx.
21 201 17 N	50	51	100	20	10
21 201 24 N	100	65	100	24	10
21 201 36 N	250	85	155	34,5	10
21 201 44 N	500	105	185	34,5	10
21 201 54 N	1000	135	230	45	10
21 201 63 N	2000	166	255	60	6



FRASCOS DE KITASATO

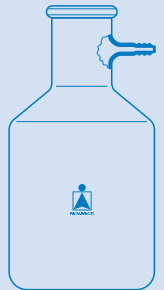
Com oliva lateral
Para vácuo
Vidro Borossilicato 3.3

ISO 6556

FILTERING BOTTLES

With hose connection
for vacuum use
Borosilicate glass 3.3

Ref.	Cap. ml	Máx. Ø Ext. / O.D. mm	Alt. H. mm	Quant. Cx. Bx.
21 191 68	3000	170	295	1
21 191 73	5000	185	360	1
21 191 86	10000	240	420	1
21 191 88	15000	255	500	1
21 191 91	20000	290	535	1



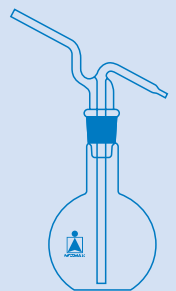
BALÃO LAVADOR DE ESGUICHO

Colo esmerilado normalizado
Vidro Borossilicato 3.3

GAS WASHING FLASK

With standard ground neck
Borosilicate glass 3.3

Ref.	Cap. ml	IN	Quant. Cx. Bx.
475 01	500	29 / 32	10
475 02	1000	29 / 32	10
475 03	2000	29 / 32	6



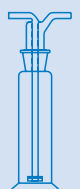
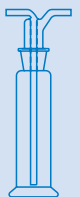
FRASCO LAVADOR DE GASES

Com esmerilado normalizado

GAS WASH BOTTLE

With standard ground joint

Ref. Com placa porosa With porous plate	Ref. Sem placa porosa W/o porous plate	Cap. ml	IN	Alt. H. mm	Quant. Cx. Bx.
357 010 X	34 809 00	100	29 / 32	205	10
357 020 X	34 810 00	250	29 / 32	205	10
357 030 X	34 811 00	500	29 / 32	205	10

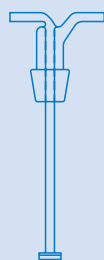


Substituir na Ref. "X" pela Porosidade Desejada
Replace the "X" by the Required Porosity



5

FILTRAÇÃO FILTRATION



CABEÇA PARA FRASCO LAVADOR DE GASES

GAS WASHING BOTTLE HEAD

Com esmerilado normalizado

With standard ground joint

Ref. Com placa With plate	Ref. Sem placa W/o plate	IN	Quant. Cx. Bx.
36 780 00X	36 780 00	29 / 32	40

FUNIS "NORMAX"

FUNNELS "NORMAX"

Haste curta

ISO 4798 DIN 12445

Short stem

Ref.	Diam. topo Top O.D. mm	Comp. haste Stem length mm
31 351 20	30 *	30
31 351 23	35	35
31 351 25	40 *	40
31 351 28	45	45
31 351 30	50	50
31 351 33	55 *	55
31 351 37	60	60
31 351 38	70 *	70
31 351 40	75	75
31 351 41	80 *	80
31 351 43	85	85
31 351 46	100 *	100
31 351 48	120	120
31 351 57	150	150
31 351 59	180 *	175
31 351 61	200	175
31 351 66	250 *	175
31 351 69	300	175

* Não normalizado

* Non ISO

Haste comprida

ISO 4798 DIN 12445

Long stem

Ref.	Ø Ext. / O.D. Sup./Top mm	Comp. haste Stem length mm	Ø Ext. haste Stem O.D. mm	Papel de Filtro Paper filter mm
31 353 28	45	150	6	55 a 70
31 353 33	55	150	6	70 a 90
31 353 38	70	150	6	110 a 125
31 353 41	80	150	6	125 a 150

Para pós

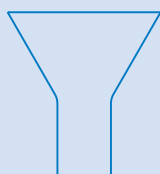
Powders funnels

Para sólidos

Solid addition funnels

Ref.	Ø Ext. / O.D. Sup./Top mm
31 352 37	60
31 352 38	70
31 352 41	80
31 352 43	90
31 352 46	100

Ref.	Ø Ext. / O.D. Sup./Top mm
90 600 19	30
90 600 20	60
90 600 21	80
90 600 22	100





FILTRAÇÃO FILTRATION

5

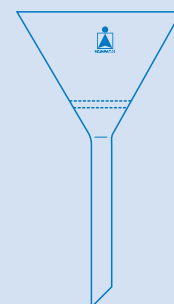
FUNIS "NORMAX"

Com placa porosa

Ref.	Cap. ml	Distintivo Identif.	Porosidade Porosity mm	Ø Placa Disc. diam. mm	Ø Ext. sup. Top O.D. mm	Quant. Cx. Bx.
35 854 01	25	39D	1	25	55	10
35 854 03	25	39D	3	25	55	10
35 854 04	25	39D	4	25	55	10

FUNNELS "NORMAX"

With porous plate



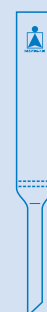
TUBOS DE FILTRAÇÃO

Segundo Allihn
Com placa porosa

Ref.	Cap. ml	Porosidade Porosity mm	Ø Disco O.D. disc mm	Alt. H. mm	Quant. Cx. Bx.
35 853 2X	30	1 a 4	20	100	25

FILTER TUBES

Allihn
With porous plate



Substituir na Ref. "X" pela Porosidade Desejada
Replace "X" By the Required Porosity

FUNIS DE BUCHENER

Ref.	Cap. ml	Ø Placa Disc. O.D.. mm	Ø Ext. haste Stem O.D. mm	Quant. Cx. Bx.
21 341 22	70	48	10	1
21 341 28	125	60	10	1
21 341 34	220	73	18	1
21 341 44	500	95	22	1
21 341 54	1000	120	22	1

BUECHNER FUNNELS



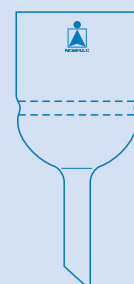
FUNIS DE FILTRAÇÃO

Ref.	Cap. ml	Distintivo Identif.	Porosidade Porosity	Ø Placa Disc. O.D.	Quant. Cx. Bx.
35 852 0X	50	3D	1 a 4	35	10
35 852 1X	75	11D	1 a 4	45	10
35 852 2X	125	17D	1 a 4	60	10
35 852 3X	500	25D	1 a 4	95	10
35 852 4X	1000	26D	1 a 4	120	10
35 852 6X	4000	151D	1 a 4	175	10

FILTER FUNNELS

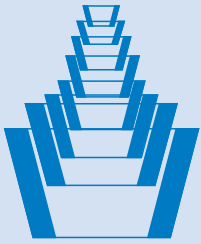
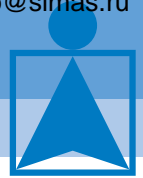
Substituir na Ref. "X" pela Porosidade Desejada

Replace "X" by the Required Porosity



5

FILTRAÇÃO FILTRATION



CONJUNTO GUKO EM BORRACHA

GUKO SET

Ref.		Quant. Cx. Bx.
29 202 00 K420	8 Gukos de tamanhos 22 a 84 / 8 Guko gaskets, sizes 22 to 84 7 Gukos de tamanhos 21 a 86 / 7 Guko gaskets, sizes 21 to 86	1

GUKOS EM BORRACHA

GUKO

Ref.	Ø Superior Top O.D. mm	Ø Inferior Bottom O.D. mm	Quant. Cx. Bx.
29 202 12	22	12	10
29 202 17	29	16	10
29 202 23	36	22	10
29 202 27	44	27	10
29 202 32	53	33	10
29 202 36	63	43	10
29 202 39	73	52	10
29 202 43	84	61	10

ALONGAS PARA CADINHOS FILTRANTES

ADAPTERS FOR FILTER CRUCIBLES

Ref.	Ø Int. Superior Top I.D. mm	Comp. L. mm	Ref. Cadinho Ref. Filter Funnels	Anilha Rubber Sleeves mm	Quant. Cx. Bx.
24 316 16	27	110	63D	26	10
24 316 22	34	110	10D	33	10
24 316 26	41	125	1D	41	10
24 316 32	50	132	2D	49	10

ANILHAS DE BORRACHA

RUBBER SLEEVES

Para cadinhos filtrantes

For filter crucibles

Ref.	Ø Ext. O.D. mm	Ø Sup. alonga Ø Adapter mm	Quant. Cx. Bx.
29 201 14	26	27	10
29 201 21	33	34	10
29 201 26	41	41	10
29 201 31	49	50	10

CADINHOS FILTRANTES

FILTER CRUCIBLES

Ref.	Cap. ml	Distintivo Identif.	Porosidade Porous	Disco Disc. mm	Ref. Anilha Rubber sleeve	Ref. Alonga Filter adapter	Quant. Cx. Bx.
25 851 0X	8	63D	1 a 4	20	29 201 14	24 316 16	10
25 851 1X	15	10D	1 a 4	23	29 201 21	24 316 22	10
25 851 2X	30	1D	1 a 4	30	29 201 26	24 316 26	10
25 851 3X	50	2D	1 a 4	40	29 201 31	24 316 32	10

Substituir na Ref. "X" pela Porosidade Desejada

Replace "X" by the Required Porosity



FRASCOS DE WOULFF

FRASCOS PARA LÍQUIDOS VOLATEIS



6

FRASCOS BOTTLES



FRASCO PARA REAGENTES

Boca estreita, com rolha

REAGENT BOTTLES

Narrow neck, with stopper

Ref. Branco White	Ref. Amarelo Amber	Cap ml	Diam. mm	Alt. H. mm	IN	Quant. Cx. Bx.
41 165 17	41 168 17	50	44	77	12/21	40
41 165 24	41 168 24	100	54	95	14/23	50
41 165 36	41 168 36	250	73	129	19/26	22
41 165 44	41 168 44	500	89	162	24/29	16
41 165 54	41 168 54	1000	111	200	29/32	8



Boca larga, com rolha

Wide neck, with stopper

Ref. Branco White	Ref. Amarelo Amber	Cap ml	Diam. mm	Alt. H. mm	IN	Quant. Cx. Bx.
41 185 17	41 188 17	50	42	77	19/26	40
41 185 24	41 188 24	100	52	95	24/29	50
41 185 36	41 188 36	250	70	129	34/35	22
41 185 44	41 188 44	500	86	162	45/40	16
41 185 54	41 188 54	1000	107	200	45/40	8

FRASCO DE ROUX PARA CULTURAS

CULTURE FLASKS, ROUX



Ref.	Cap. ml	Comp. L. mm	Larg. W. mm	Alt. H. mm
21 541 58	1200	260	122	56

FRASCOS CONTA-GOTAS

Ambar, com tampa,
pipeta e sugador de borracha

DROPPING BOTTLES

Amber, with screw-cap
and rubber sucker

Ref.	Cap. ml
41 218 10	5
41 218 12	10
41 218 13	15
41 218 14	20
41 218 15	30
41 218 17	50
41 218 24	100



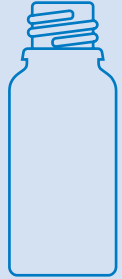
FRASCOS BOTTLES

6

Frascos em vidro, com rosca

Threaded glass bottle

Ref. PP 28 Amarelo Amber	Ref. PP 28 Branco White	Ref. PP 18 Amarelo Amber	Cap. ml
		40 400 20	10
		40 400 21	20
40 400 16	40 400 15	40 400 22	30
		40 400 23	50
40 400 07	40 400 14		60
40 400 06	40 400 11	40 400 24	100
40 400 05	40 400 13		125
40 400 04	40 400 12		200
40 400 03	40 400 08		250
40 400 02	40 400 09		500
40 400 01	40 400 10		1000



ACESSÓRIOS PARA FRASCOS

BOTTLE ACCESSORIES

Ref.

65 040 17	Tampa sem furo, G1 14, branca	<i>Closed cap, G1 14, white</i>
60 200 27	Tampa com furo Nx 18, branca	<i>Cap with hole, Nx 18, white</i>
60 200 08	Tampa sem furo Nx 18, branca	<i>Closed cap Nx 18, white</i>
65 080 04	Tampa inviolável, G1 18, Fechada	<i>Tamper proof closed cap</i>
65 080 03	Tampa inviolável, G1 18, Aberta	<i>Tamper proof cap with hole</i>
60 200 09	Tampa conta-gotas DIN 18, Branca	<i>Dropping bottle cap DIN 18, white</i>
60 200 10	Tampa conta-gotas DIN 18, Preta	<i>Dropping bottle cap DIN 18, black</i>
60 200 06	Tampa inviolável B/ AM PP 28	<i>Tamper proof cap, white/amber PP 28</i>
65 080 00	Sugadores brancos	<i>White rubber sucker</i>
65 080 02	Sugadores pretos	<i>Black rubber sucker</i>

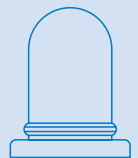


Tampas GL, Azul

Plastic Screw-cap, Blue

Ref.

26 240 08	Tampa fechada G1 14,	<i>Closed cap, G1 14</i>
26 240 11	Tampa fechada G1 18,	<i>Closed cap, G1 18</i>
26 240 13	Tampa fechada G1 25,	<i>Closed cap, G1 25</i>
26 240 19	Tampa fechada G1 32,	<i>Closed cap, G1 32</i>
26 240 28	Tampa fechada G1 45,	<i>Closed cap, G1 45</i>
27 227 08	Tampa aberta G1 14,	<i>Open cap, G1 14</i>
27 227 11	Tampa aberta G1 18,	<i>Open cap, G1 18</i>
27 227 13	Tampa aberta G1 25,	<i>Open cap, G1 25</i>
27 227 19	Tampa aberta G1 32,	<i>Open cap, G1 32</i>
27 227 28	Tampa aberta G1 45,	<i>Open cap, G1 45</i>



Anel

Pouring Ring

Ref.

28 292 19	Anel G1 32	<i>Pouring Ring G1 32</i>
28 242 28	Anel G1 45	<i>Pouring Ring G1 45</i>



INDÚSTRIA FARMACÊUTICA PHARMACEUTICAL INDUSTRY

7

PIPETAS CONTA-GOTAS

DROPPING PIPETTES

Vidro Soda ou Borosilicato
Do diam. 5,00 até 10,00mm
Impressa ou lisa

Soda or Borosilicate glass
From diam. 5,00 to 10,00mm
Printed or plain

Ref.	Medidas Dimensions ml	Tipo vidro Glass Type	Ponta <i>Jet</i>	Imp./Lisa <i>Printed/plain</i>	Quant. Cx./Bx.
54 005 36	5,20 x 36,5	SODA	Curva/ <i>Curve</i>	Lisa/ <i>Plain</i>	10000
54 006 55	5,20 x 55,0	SODA	Boleada/ <i>Turned End</i>	Lisa/ <i>Plain</i>	5000
54 006 45	6,00 x 45,0	SODA	Curva/ <i>Curve</i>	Lisa/ <i>Plain</i>	5000
54 002 54A	6,00 x 54,5	SODA	Com bola/ <i>With ball</i>	Lisa/ <i>Plain</i>	4500
54 007 56A	6,25 x 55,5	BORO 4.9	Curva/ <i>Curve</i>	Lisa/ <i>Plain</i>	----
54 006 65	6,25 x 63,0	BORO 4.9	Curva/ <i>Curve</i>	Lisa/ <i>Plain</i>	3500
54 007 80	7,00 x 80,0	SODA	Curva/ <i>Curve</i>	Lisa/ <i>Plain</i>	3000
54 009 58	7,25 x 58,0	BORO4 .9	Boleada/ <i>Turned End</i>	Graduada/ <i>Printed</i>	3200
54 006 70	7,00 x 70,0	SODA	Curva/ <i>Curve</i>	Lisa/ <i>Plain</i>	----
54 008 55	7,25 x 55,0	BORO 4.9	Boleada/ <i>Turned End</i>	Lisa/ <i>Plain</i>	----
54 005 62A	7,25 x 62,0	BORO 4.9	Com bola / <i>With ball</i>	Lisa/ <i>Plain</i>	3000
54 002 63C	7,25 x 63,0	SODA	Curva c/ bola/ <i>Curve w/ ball</i>	Graduada/ <i>Printed</i>	3000
54 007 76	7,00 x 78,0	SODA	Boleada/ <i>Turned End</i>	Lisa/ <i>Plain</i>	3000
54 009 89	7,00 x 89,0	SODA	Boleada/ <i>Turned End</i>	Graduada/ <i>Printed</i>	1500
54 007 50	8,00 x 49,5	BORO 4.9	Curva/ <i>Curve</i>	Lisa/ <i>Plain</i>	3200
54 008 77A	8,25 x 77,0	BORO 4.9	Recta/ <i>Straight</i>	Lisa/ <i>Plain</i>	2000
54 008 76	8,00 x 76,0	BORO 4.9	Boleada/ <i>Turned End</i>	Lisa/ <i>Plain</i>	1200

Podemos fabricar outros modelos, por pedido

Other models by request

BOLEADA
TURNED END



RECTA
STRAIGHT



COM BOLA
BALL END



CURVA
CURVE



FRASCOS "NORMAX"

VIALS "NORMAX"

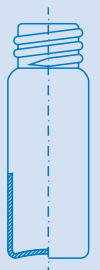
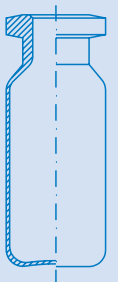
Feitos a partir do tubo de vidro borosilicato
Injectáveis

Made from borosilicate glass tubing
Injection

Ref.	Diam.x Alt. O.D. x H. mm	Cor / Classe Hidrolítica (C.H.) <i>Colour / Hydrolytic Class (H.C.)</i>	Boca <i>Ring finish</i>	Quant. Cx./Bx.
34 010 47	10,25 x 47,00	Branco / <i>white I</i>	capsular	1000
34 012 32	11,75 x 32,00	Branco / <i>white I</i>	capsular	806
34 013 55	13,75 x 55,00	Branco / <i>white I</i>	capsular	840
34 015 54	15,75 x 54,00	Branco / <i>white I</i>	capsular	450
34 016 41	16,50 x 41,50	Branco / <i>white I</i>	capsular	398
34 016 70	16,75 x 70,00	Branco / <i>white I</i>	capsular	378
34 020 40	20,50 x 40,00	Branco / <i>white I</i>	capsular	255
34 022 46	22,50 x 46,00	Branco / <i>white I</i>	capsular	216
34 022 40	22,00 x 40,00	Branco / <i>white I</i>	capsular	226
34 024 53B	24,50 x 58,00	Amarelo / <i>Yellow II</i>	capsular	168
34 029 54	29,25 x 54,00	Branco / <i>white I</i>	capsular	120
34 029 54B	29,25 x 54,00	Amarelo / <i>Yellow II</i>	capsular	120
34 029 76	29,25 x 76,00	Branco / <i>white I</i>	capsular	120
34 029 10	29,00 x 105,00	Branco / <i>white I</i>	capsular	143
34 016 58	16,75 x 58,00	Amarelo / <i>Yellow II</i>	Rosca <i>Screwthread</i>	143
34 024 48	24,50 x 48,00	Amarelo / <i>Yellow II</i>	Rosca <i>Screwthread</i>	418
34 024 52	24,00 x 52,00	Amarelo / <i>Yellow II</i>	Rosca <i>Screwthread</i>	168

Outros tamanhos e impressões estão disponíveis, por pedido

Other sizes and printing are available upon request





VIDRARIA DIVERSA GENERAL LABORATORY GLASSWARE



BALÃO ERLLENMEYER

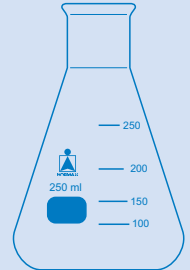
ERLENMEYER FLASKS

Boca Estreita Graduados

DIN 12380

Narrow neck Graduated

Ref.	Cap.	Diam. Boca Neck O.D. mm	Diam. máx. Max. O.D. mm	Alt. H. mm	Quant. Cx. Bx.
	ml				
21 216 14 N	25	42	22	75	10
21 216 17 N	50	22	51	75	10
21 216 24 N	100	22	64	105	10
21 216 32 N	200	34	79	131	10
21 216 36 N	250	34	85	145	10
21 216 39 N	300	34	87	156	10
21 216 44 N	500	34	105	180	10
21 216 54 N	1000	42	131	220	10
21 216 63 N	2000	50	166	280	6
21 216 68 N	3000	51	187	310	6
21 216 73 N	5000	51	220	365	6

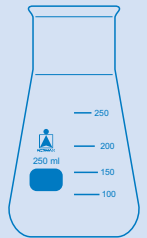


Boca Larga Graduados

DIN 12385

Wide neck Graduated

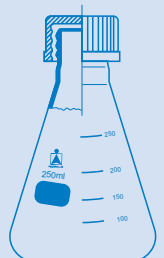
Ref.	Cap.	Diam. Boca Neck O.D. mm	Diam. máx. Max. O.D. mm	Alt. H. mm	Quant. Cx. Bx.
	ml				
21 226 14 N	25	43	31	70	10
21 226 17 N	50	34	51	85	10
21 226 24 N	100	34	64	105	10
21 226 32 N	200	50	79	131	10
21 226 36 N	250	50	85	140	10
21 226 39 N	300	50	87	156	10
21 226 44 N	500	50	105	175	10
21 226 54 N	1000	50	131	220	10
21 226 63 N	2000	72	153	276	10
21 226 73 N	5000				



Graduados Com rosca e tampa

Graduated With screw-cap

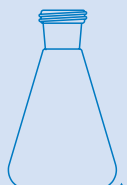
Ref.	Cap.	Rosca Thread ISO	Diam. máx. Max. O.D. mm	Alt. H. mm	Quant. Cx. Bx.
	ml				
21 803 245	100	GL 25	64	105	10
21 803 365	250	GL 32	85	145	10
21 803 445	500	GL 32	105	175	10
21 803 545	1000	GL 32	131	225	10



Com esmerilado e com rosca

Ground and Screw threaded Neck

Ref.	Cap. ml
91 600 04	100
91 600 05	250



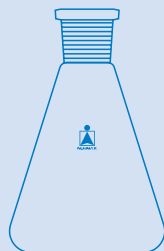


VIDRARIA DIVERSA GENERAL LABORATORY GLASSWARE

Com junta cônica esmerilada

With standard ground joint

Ref.	Cap. ml	Colo Joint IN	Quant. Cx. Bx.
471 01	5	10 / 19	10
471 02	10	10 / 19	10
471 03	25	10 / 19	10
471 04	25	14 / 23	10
471 05	25	19 / 26	10
471 06	50	14 / 23	10
471 07	50	19 / 26	10
471 08	50	24 / 29	10
471 09	100	14 / 23	10
471 10	100	19 / 26	10
471 11	100	24 / 29	10
471 12	100	29 / 32	10
471 13	200	29 / 32	10
471 14	200	19 / 26	10
471 15	200	24 / 29	10
471 16	250	29 / 32	10
471 17	250	19 / 26	10
471 18	250	24 / 29	10
471 27	300	29 / 32	10
471 19	500	19 / 26	10
471 20	500	24 / 29	10
471 21	500	29 / 32	10
471 22	1000	24 / 29	10
471 23	1000	29 / 32	10
471 24	1000	34 / 35	10
471 25	2000	29 / 32	6
471 26	2000	34 / 35	6



Com tampa de plástico acrescentar um "T" à referência

With plastic cap add "T" to the reference code

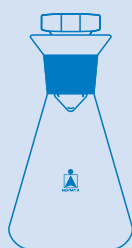
BALÃO ERLLENMEYER PARA ÍNDICE IODO

ERLENMEYER FLASKS

Com tampa

Iodine determination
With standard ground joint
Flat head-stopper

Ref.	Cap. ml	Colo Joint IN	Quant. Cx. Bx.
34 192 27	100	29 / 32	10
34 192 37	250	29 / 32	10
34 192 39	300	29 / 32	10
34 192 46	500	29 / 32	10



BALÃO FUNDO PLANO

FLASKS, FLAT BOTTOM

Boca larga

DIN 12380 ISO 1773

Wide neck

Ref.	Cap. ml	Diam. Boca Neck O.D. mm	Diam. máx. Max. O.D. mm	Alt. H. mm	Quant. Cx. Bx.
21 731 17 N	50	34	51	100	10
21 731 24 N	100	34	64	110	10
21 731 36 N	250	50	85	140	10
21 731 44 N	500	50	103	170	10
21 731 54 N	1000	50	131	190	10
21 731 63 N	2000	76	166	250	6
21 731 68 N*	3000	76	182	259	6



*Não normalizado

*Non ISO



Boca Estreita

DIN 12380 ISO 1773

Narrow neck

Ref.	Cap. ml	Diam. Boca Neck O.D. mm	Diam. máx. Max. O.D. mm	Alt. H. mm	Quant. Cx. Bx.
21 711 17 N	50	34	51	100	10
21 711 24 N	100	34	64	110	10
21 711 36 N	250	50	85	140	10
21 711 44 N	500	50	105	171	10
21 711 54 N	1000	65	131	190	10
21 711 63 N	2000	76	166	250	6
21 711 68 N	3000*	76	182	269	6
21 711 71 N	4000	76	207	300	6
21 711 76 N	6000	89	237	340	6
21 711 86 N	10000	89	280	400	6

Com junta cónica esmerilada

With standard ground joint

Ref.	Cap. ml	Colo Joint IN	Quant. Cx. Bx.
470 01	50	19 / 26	10
470 02	50	24 / 29	10
470 03	100	19 / 26	10
470 04	100	24 / 29	10
470 05	100	29 / 32	10
470 06	250	19 / 26	10
470 07	250	24 / 29	10
470 08	250	29 / 32	10
470 09	500	24 / 29	10
470 10	500	29 / 32	10
470 11	500	34 / 35	10
470 12	1000	24 / 29	10
470 13	1000	29 / 32	10
470 14	1000	34 / 35	10
470 15	2000	29 / 32	6
470 16	2000	34 / 35	6





VIDRARIA DIVERSA GENERAL LABORATORY GLASSWARE

Com junta cónica esmerilada

With standard ground joint

Ref.	Cap. ml	Colo Joint IN	Quant. Cx. Bx.
468 01	5	10 / 19	20
468 02	10	10 / 19	20
468 03	25	14 / 23	10
468 04	25	19 / 26	10
468 05	25	24 / 29	10
468 06	50	14 / 23	10
468 07	50	19 / 26	10
468 08	50	24 / 29	10
468 09	100	14 / 23	10
468 10	100	19 / 26	10
468 11	100	24 / 29	10
468 12	100	29 / 32	10
468 13	250	19 / 26	10
468 14	250	24 / 29	10
468 15	250	29 / 32	10
468 16	500	24 / 29	10
468 17	500	29 / 32	10
468 18	500	34 / 35	10
468 19	1000	24 / 29	10
468 20	1000	29 / 32	10
468 21	1000	34 / 35	5
468 22	2000	29 / 32	5
468 23	2000	34 / 35	5

Com esmerilado e com rosca

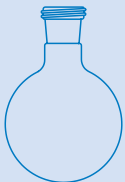
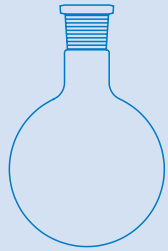
Ground and Screwthreaded Neck

Ref.	Cap. ml
91 600 00	250
91 600 01	500

Com 2 tubuladuras Esmeriladas

2 Necks

Ref. Paralelas Parallel	Ref. Em ângulo Angled	Cap. ml	Colo central Centre joint IN	Colo lateral Side joint IN	Quant. Cx. Bx.
463 01	464 01	100	29 / 32	14 / 23	10
463 02	464 02	100	29 / 32	19 / 26	10
463 03	464 03	250	29 / 32	14 / 23	10
463 04	464 04	250	29 / 32	19 / 26	10
463 05	464 05	250	29 / 32	29 / 32	10
463 06	464 06	500	29 / 32	14 / 23	10
463 07	464 07	500	29 / 32	19 / 26	10
463 08	464 08	500	29 / 32	29 / 32	10
463 09	464 09	1000	29 / 32	14 / 23	10
463 10	464 10	1000	29 / 32	19 / 26	10
463 11	464 11	1000	29 / 32	29 / 32	10
463 12	464 12	2000	29 / 32	14 / 23	6
463 13	464 13	2000	29 / 32	29 / 32	6
463 14	464 14	2000	29 / 32	29 / 32	6
463 15	464 15	4000	29 / 32	29 / 32	6





VIDRARIA DIVERSA GENERAL LABORATORY GLASSWARE



Com esmerilado e com rosca

Ground and Screwthreaded Neck

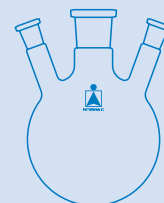
Ref.	Cap. ml
91 650 03	250
91 650 07	500



Com 3 tubuladuras esmerilada

3 Necks angled side necks

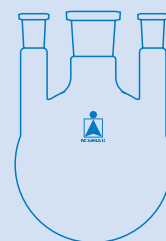
Ref.	Cap. ml	Centro central Centre joint IN	Centro lateral Side joint IN	Quant. Cx. Bx.
461 01	100	19 / 26	14 / 23	10
461 02	100	24 / 29	14 / 26	10
461 03	100	24 / 29	19 / 26	10
461 04	250	19 / 26	19 / 26	10
461 05	250	24 / 29	14 / 23	10
461 06	250	24 / 29	19 / 26	10
461 07	250	29 / 32	14 / 23	10
461 08	500	24 / 29	14 / 23	10
461 09	500	24 / 29	19 / 26	10
461 10	500	29 / 32	14 / 23	10
461 11	1000	24 / 29	14 / 23	10
461 12	1000	24 / 29	19 / 26	10
461 13	1000	34 / 35	19 / 26	10
461 15	2000	34 / 35	19 / 26	6



Com 3 tubuladuras paralelas

3 Necks Parallel Side Necks,

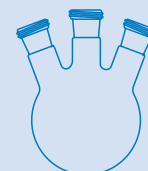
Ref.	Cap. ml	Centro central Centre joint IN	Centro lateral Side joint IN	Quant. Cx. Bx.
462 01	250	24 / 29	19 / 26	10
462 02	250	29 / 32	14 / 23	10
462 03	500	24 / 29	19 / 26	10
462 04	500	29 / 32	14 / 23	10
462 05	500	29 / 32	19 / 26	10
462 06	1000	24 / 29	19 / 26	10
462 07	1000	29 / 32	14 / 23	10
462 08	1000	29 / 32	19 / 26	10
462 09	1000	34 / 35	19 / 26	10
462 10	1000	34 / 35	24 / 29	10
462 11	2000	24 / 29	19 / 26	6
462 12	2000	29 / 32	14 / 23	6
462 13	2000	29 / 32	19 / 26	6
462 14	2000	34 / 35	19 / 26	6
462 15	2000	34 / 35	24 / 29	6



Com esmerilado e com rosca

Ground and Screwthreaded Neck

Ref.	Cap. ml
99 650 08	250
99 650 08	500





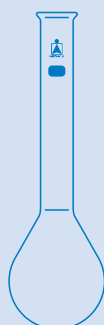
VIDRARIA DIVERSA GENERAL LABORATORY GLASSWARE



Com Saída Lateral

With Hose Connection

Ref.	Cap. ml	IN	Quant. Cx. Bx.
459 00	25	14 / 23	10



BALÃO KJELDAHL

KJELDAHL FLASKS

DIN 12360

Ref.	Cap. ml	Ø Ext. colo Neck O.D. mm	Ø Ext. balão Flask O.D. mm	Alt. H. mm	Quant. Cx. Bx.
21 231 17	50	22	51	200	10
21 231 24	100	22	60	200	10
21 231 36	250	34	81	270	10
21 231 39 N	300				
21 231 44 N	500	34	101	300	10
21 231 51	750	34	115	340	10
21 231 54	1000	34	126	350	10



Com junta cônica esmerilada

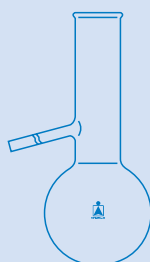
With standard ground joint

Ref.	Cap. ml	Colo Joint IN	Quant. Cx. Bx.
474 01	50	19 / 26	10
474 02	100	19 / 26	10
474 03	100	24 / 29	10
474 04	250	24 / 29	10
474 05	500	24 / 29	10
474 06	500	29 / 32	10
474 07	750	29 / 32	10

BALÕES PARA DESTILAÇÃO "ENGLER"

DISTILLING FLASKS "ENGLER"

Ref.	Cap. ml	Alt. H. mm
31 243 17	50	100
31 243 24	100	150
31 243 34	200	200
31 243 36	250	250
31 243 44	500	300
31 243 54	1000	





VIDRARIA DIVERSA GENERAL LABORATORY GLASSWARE



COPOS "NORMAX"

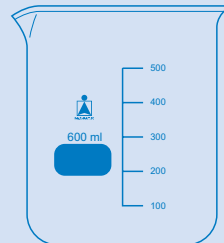
BEAKERS "NORMAX"

Forma baixa

ISO 3819 DIN 12332

Low form

Ref.	Cap.	Ø Ext.	Alt.	Quant.
	ml	O.D. mm	H. mm	
				Cx. Bx.
21 101 07 N	5	22	30	10
21 101 08 N	10	26	35	10
21 106 14 N	25	34	50	10
21 106 17 N	50	40	55	10
21 106 24 N	100	52	71	10
21 106 29 N	150	60	80	10
21 106 36 N	250	70	95	10
21 106 41 N	400	80	110	10
21 106 48 N	600	90	125	10
21 106 53 N	800	100	135	10
21 106 54 N	1000	105	145	10
21 106 63 N	2000	132	185	10
21 106 68 N	3000	152	210	6
21 106 73 N	5000	170	270	6

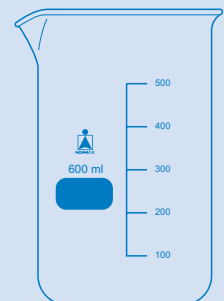


Forma alta

ISO 3819 DIN 12332

Tall form

Ref.	Cap.	Ø Ext.	Alt.	Quant.
	ml	O.D. mm	H. mm	
				Cx. Bx.
21 116 14 N	25	30	55	10
21 116 17 N	50	38	65	10
21 116 24 N	100	48	80	10
21 116 29 N	150	54	95	10
21 116 36 N	250	60	120	10
21 116 41 N	400	70	130	10
21 116 48 N	600	80	150	10
21 116 53 N	800	90	175	10
21 116 54 N	1000	95	180	10
21 116 63 N	2000	120	240	10
21 116 68 N	3000	135	280	6

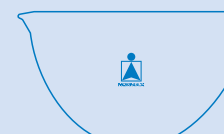


CÁPSULAS DE EVAPORAÇÃO FUNDO PLANO

EVAPORATING DISHES FLAT BOTTOM

DIN 12336

Ref.	Cap.	Ø Ext.	Alt.	Quant.
	ml	O.D. mm	H. mm	
				Cx. Bx.
21 301 24	10	40	18	10
21 301 32	15	50	25	10
21 301 34	45	60	30	10
21 301 38	60	70	35	10
21 301 41	90	80	45	10
21 301 44	170	95	55	10
21 301 49	320	115	65	10
21 301 54	600	140	80	10
21 301 59	1500	190	100	10
21 301 63	2500	230	130	10





VIDRARIA DIVERSA GENERAL LABORATORY GLASSWARE

BIBERÕES "NORMAX"

FEEDING-BOTTLES "NORMAX"

Ref.	Cap. ml	Cor de impressão Graduation colour	Quant. Cx. Bx.
36 420 29	150	Vermelho / Red	12
36 420 36	250	Vermelho / Red	12



ALMOFARIZES

MORTARS

Bico e pilão

Spout and pestle

Ref.	Cap. ml	Diam. mm	Quant. Cx. Bx.
40 541 17	50	60	18
40 541 24	100	80	24
40 541 36	250	100	24
40 541 44	500	120	24
40 541 54	1000	150	6
40 541 63	2000	180	6

Sem pilão, acrescentar um "A" à ref.

Without Pestle, add an "A" to the ref. nr.



PILÕES

PESTLES

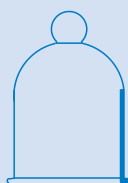
Ref.	L. mm
90 950 08	70
90 950 50	80
90 950 46	100
90 950 11	120
90 950 38	140
90 950 04	160
90 950 12	180
90 950 23	200
90 950 09	230



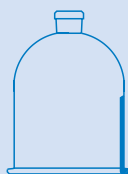
CAMPANULAS

BELL JARS

Ref. (Mod.1) Com botão With knob	Ref. (Mod.2) Com IN 29/32 With IN 29/32	Medida Size mm	Quant. Cx./Bx.
15 022 53	15 021 53	150 x 200	1
15 022 54	15 021 54	150 x 250	1
15 022 55	15 021 55	200 x 200	1
15 022 56	15 021 56	200 x 300	1
15 022 57	15 021 57	300 x 400	1



(Mod.1)



(Mod.2)



VIDRARIA DIVERSA GENERAL LABORATORY GLASSWARE



CRISTALIZADORES

Sem bico, prensado

Ref.	Diam.	H.	Quant.
	mm	mm	Cx. Bx.
44 706 40	80	40	15
44 706 50	100	50	24
44 706 60	120	60	10
44 706 70	150	70	6
44 706 90	190	90	6

CRISTALLIZING DISHES

Without spout

Cap.	Diam x Alt.	Ref. Soda	Ref. Soda	Ref. Borosilicate	Ref. Borosilicate
ml.	Diam. x H. mm	Sem bico W/o spout	Com bico With spout	Sem bico W/o spout	Com bico With spout
20	40 x 25	44 704 24	44 705 24	21 313 24	21 311 24
40	50 x 30	44 704 32	44 705 32	21 313 32	21 311 32
60	60 x 35	44 704 34	44 705 34	21 313 34	21 311 34
100	70 x 40	44 704 38	44 705 38	21 313 38	21 311 38N
150	80 x 45	44 704 41	44 705 41	21 313 41	21 311 41
300	95 x 55	44 704 44	44 705 44	21 313 44	21 311 44
500	115 x 65	44 704 49	44 705 49	21 313 49N	21 311 49N
900	140 x 75	44 704 54	44 705 54	21 313 54N	21 311 54
2000	190 x 90	44 704 59	44 705 59	21 313 59N	21 311 59N
3500	230 x 100	44 704 63	44 705 63	21 313 63	21 311 63N
5000	250 x 120	44 704 72	44 705 72		

Com tampa, acrescentar um "A" à ref.

With cover, add an "A" to the ref. code

DESSECADORES SEM PLACA

DESICCATORS WITHOUT PLATE

Ref.	Ref.	Ref.	Int. diam.	Alt.	Quant.
Com torneira	Sem torneira	Com capuchão	mm	H.	Cx.
With Stopcock	Without stopcock	W/ rot. sleeve valve		mm	Bx.
49 060 19	49 061 19	49 065 19	150	260	1
49 060 24	49 061 24	49 065 24	200	300	1
49 060 31	49 061 31	49 065 31	250	360	1
49 060 34	49 061 34	49 065 34	300	-	1

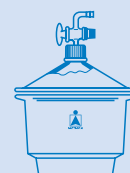
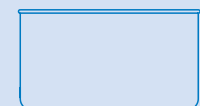
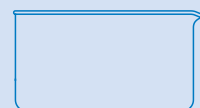
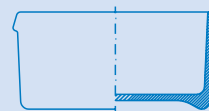
Com placa, acrescentar um "1" à ref.

With plate, add an "1" to the ref. code

TAMPAS PARA DESSECADORES

LIDS FOR DESICCATORS

Ref.	Ref.	Ref.	Int. diam.	Quant.
Com torneira	Sem torneira	Com capuchão	mm	Cx.
With Stopcock	Without stopcock	W/ rot. sleeve valve		Bx.
49 063 19	49 062 19	49 066 19	150	1
49 063 24	49 062 24	49 066 24	200	1
49 063 31	49 062 31	49 066 31	250	1
49 063 34	49 062 34	49 066 34	300	1







VIDRARIA DIVERSA GENERAL LABORATORY GLASSWARE

MEDIDOR DE KIPP

Sem torneira

Ref.	Cap. ml	Quant.
		Cx. Bx.
34 304 01	500	1
34 304 02	1000	1

GAS GENERATOR, KIPP

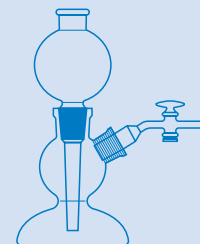
Without stopcock



Com torneira 29/32

Ref.	Cap. ml	Quant.
		Cx. Bx.
34 304 05	500	1

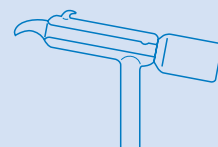
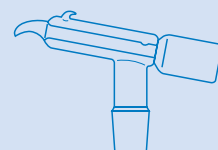
With stopcock 29/32



PIPETA PARA MEDIDOR DE KIPP

Ref. IN 29/32 Com junta esmerilada With ground joint	Ref. Sem junta esmerilada Without ground joint	Cap. ml
34 302 01	34 303 01	1
34 302 02	34 303 02	2
34 302 07	34 303 07	5
34 302 08	34 303 08	10
34 302 11	34 303 11	15
34 302 12	34 303 12	20
34 302 14	34 303 14	25
34 302 17	34 303 17	50
34 302 24	34 303 24	100

KIPP DISPENSER PIPETTES



MEDIDOR DE KIPP AUTOMÁTICO

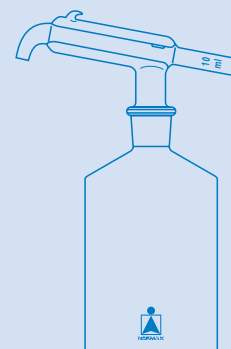
Com frasco de 1 Litro

IN 29 / 32

KIPP DISPENSER

With 1 L bottle

Ref.	Cap.
	ml
30 301 01	1
30 301 02	2
30 301 07	5
30 301 08	10
30 301 11	15
30 301 12	20
30 301 14	25
30 301 17	50
30 301 24	100





VIDRARIA DIVERSA GENERAL LABORATORY GLASSWARE

PESA-FILTROS

WEIGHTING BOTTLES

DIN 12605

Ref.	Cap.	Ø Ext. x Alt. O.D. x H.
Forma baixa Low shape	ml	mm
34 210 23	15	35 x 30
34 210 32	30	50 x 30
34 210 41	80	80 x 30

Ref.	Cap.	Ø Ext. x Alt. O.D. x H.
Forma alta Tall shape	ml	mm
34 211 07	3,5	10 x 80
34 211 13	10	25 x 40
34 211 18	20	30 x 50
34 211 23	45	35 x 70
34 211 24	70	40 x 80

PIPETA PASTEUR

PASTEUR PIPETTE

Ponta aberta

Open tip

Ref.	Diam. O.D. mm	Comp. L. mm	Quant. Cx./Bx.
54 260 15	6,5 - 8	145 - 150	250 x 8 = 2000
54 260 23	6,5 - 8	225 - 230	250 x 8 = 2000

CHAMINÉS PARA CANDEEIROS

LAMP CHIMNEY

Ref. Transp. Clear	Ref. Fosco Frosted	Medida Dimensions mm	Quant. Cx. Bx.
73 100 75	73 101 75	75 x 100	12
73 100 80	73 101 80	80 x 80	12
73 100 85	73 101 85	82 x 81	12
73 100 89	73 101 89	89 x 106	12
73 100 90	73 101 90	90 x 115	12
73 100 11	73 101 11	110 x 115	12

A pedido podemos fabricar outras dimensões.

Upon request, other dimensions are available

TORRE DE ABSORÇÃO

CALCIUM CHLORIDE TOWERS

Ref. Sem tampa Without stopper	Ref. Com tampa With stopper	Alt. x Diam. H. x Ø mm	Quant. Cx./Bx.
251 50	251 55	240 x 40	5
251 51	251 56	315 x 45	5
251 52	251 57	420 x 55	5
251 53	251 58	500 x 57	5



VIDRARIA DIVERSA GENERAL LABORATORY GLASSWARE



FUNIL DE CARGA

Com tubo obturador

DROPPING FUNNEL

Open top socket

Ref.	Cap ml	Esmer. macho Male joint	Esmer. fêmea Female joint
439 00	50	19 / 26	10 / 19



TROMPA DE ÁGUA

Consumo de água: 300 L/h

Pressão MIN (ATM): 1,2

Comp.: 275mm

Ref.

FILTER PUMP

Water flow: 300 L/h

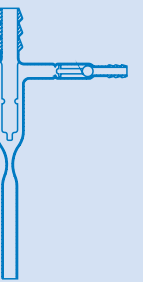
MIN water / pressure: 1,2

Length: 275mm

343 62 99

Com válvula de não retorno / *With non-return valve*

343 61 99

Sem válvula de não retorno / *Without non-return valve*

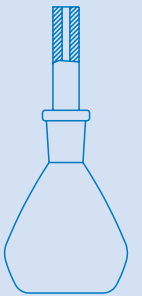
PICNÓMETROS

Para líquidos Gay-Lussac

PYCNOMETERS

For liquids Gay-Lussac

Ref.	Cap. ml	Quant.	
		Cx.	Bx.
34 551 01	1	24	
34 551 02	2	24	
34 551 07	5	24	
34 551 08	10	24	
34 551 14	25	24	
34 551 17	50	24	
34 551 21	100	14	



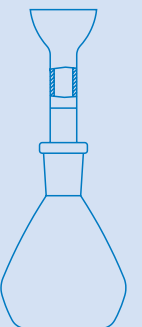
PICNÓMETROS

Para sólidos

PYCNOMETERS

For solids

Ref.	Cap. ml	Quant.	
		Cx.	Bx.
34 552 14	25	24	
34 552 17	50	24	
34 552 21	100	24	





**SERINGAS
SYRINGES**

SERINGAS DE VIDRO

Vidro borossilicato
Intercambiáveis
Ponta do piston com anel ambar
Esterilizável
Embalagem individual

GLASS SYRINGES

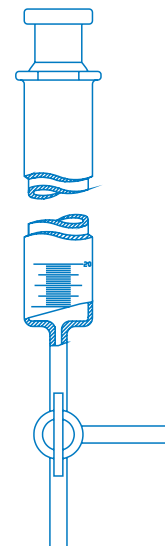
Made of borosilicate glass
All parts interchangeable
Piston end with amber ring mark
Can be sterilised
Single packed

Cap. ml	Ref. Bico vidro Luer glass	Ref. Luer lock Luer lock	Ref. W grosso Luer metal	Ref. W fino Metal record	Quant. Cx./Bx.
1	60 000 00	60 300 00	60 400 00	60 500 00	144
2	60 000 01	60 300 01	60 400 01	60 500 01	144
3	60 000 02	60 300 02	60 400 02	60 500 02	144
5	60 000 03	60 300 03	60 400 03	60 500 03	144
10	60 000 04	60 300 04	60 400 04	60 500 04	144
20	60 000 05	60 300 05	60 400 05	60 500 05	144
30	60 000 08	60 300 08	60 400 08	60 500 08	144
50	60 000 06	60 300 06	60 400 06	60 500 06	63
100	60 000 07	60 300 07	60 400 07	60 500 07	48

SERINGA DE GÁS

GAS SYRINGE

Ref. Sem torneira Without stopcock	Ref. Com torneira With stopcock	Ref. Com GL14 With GL14	Ref. Com torneira 3 vias With 3 way stopcock	Cap. ml
292 17	290 06			50
60 800 07	290 07	293 01	293 02	100



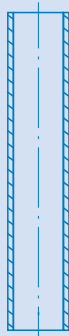


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SERINGAS SYRINGES

CILINDROS CALIBRADOS

CALIBRATED CYLINDERS



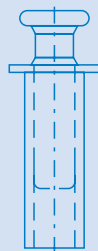
Ref.	Cap. ml	Diam. ext. O.D. mm	Diam. int.. I.D. mm	Comp. Length mm
60 630 00	1	10,89 ± 0,10	6,875 ± 0,001	64 + 1 - 0
60 630 01	2	11,60 ± 0,08	9,103 ± 0,002	73 + 1 - 0
60 630 03	5	14,65 ± 0,10	11,752 ± 0,002	72,5 + 1 - 0
60 630 04	10	18,06 ± 0,16	14,76 ± 0,002	90,5 + 1 - 0

SERINGA PARA PIPETA

PIPETTE SYRINGES

Corpo em vidro Soda
Embolo em vidro Borossilicato

Soda glass barrel
Borosilicate glass plunger



Ref.	Cap. ml
291 01	1
291 02	2
291 03	5
291 04	10
291 05	20
291 06	25
291 07	50
291 08	100



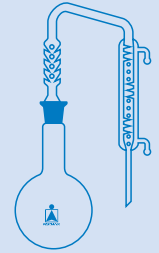
APARELHOS APPARATUS

10

DESTILADOR DE VIGREUX

VIGREUX DISTILLER

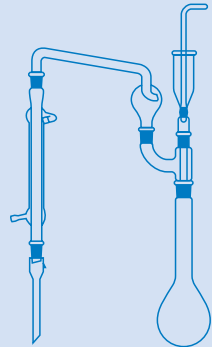
Ref.		Quant. Cx. Bx.
519	Completo / <i>Complete</i>	1
468 22	Balão / <i>Flask, 29/32, 2000ml</i>	
519 02	Refrigerante / <i>Condenser, 29/32</i>	



APARELHO KJELDAHL

KJELDAHL APPARATUS

Ref.		Quant. Cx. Bx.
517	Completo / <i>Complete</i>	1
486 03	Refrigerante Liebig / <i>Liebig condenser 19/26-19/26, 200 ml</i>	
439 00	Funil de carga c/ tubo obturador / <i>Dropping funnel with open top socket</i>	
474 05	Balão Kjeldhal / <i>Kjeldhal flask, 24/29 500ml</i>	
402 04	Adaptad. múltiplo / <i>Multiple adapter, 19/26 - 24/29</i>	
413 02	Adaptador destilação / <i>Straight delivery adapters, 19/26</i>	
428 01	Ampola retrogradação longa / <i>Splash heads, 19/26-19/26</i>	

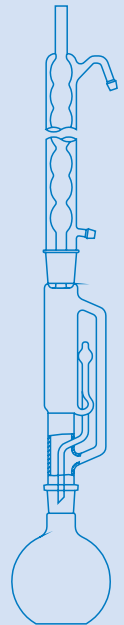


APARELHO DE SOXHLET

SOXHLET APPARATUS

Completo / *Complete*
C/ balão fundo plano / *With flat bottom flask*
C/ refrigerante ALLIHN / *With ALLIHN condenser*

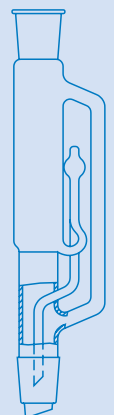
Ref.	Extractor ml	Balão Flask ml	IN refrig. Condenser IN	IN balão Flask IN	Quant. Cx. Bx.
528 01	20	100	29 / 32	29 / 32	1
528 10	30	100	29 / 32	29 / 32	1
528 02	50	100	34 / 35	29 / 32	1
528 12	60	100	45 / 40	29 / 32	1
528 09	100	250	45 / 40	29 / 32	1
528 03	125	250	45 / 40	29 / 32	1
528 04	150	250	45 / 40	29 / 32	1
528 11	200	500	45 / 40	29 / 32	1
528 05	250	500	55 / 50	29 / 32	1
528 06	500	1000	55 / 50	29 / 32	1
528 07	1000	2000	70 / 50	29 / 32	1
528 08	2000	2000	70 / 50	29 / 32	1



EXTRACTOR DE SOXHLET

SOXHLET EXTRACTOR

Ref.	Esmerilado macho Male joint	Cap. Extractor Extractor cap- ml	Esmerilado fêmea Female joint
472 10	29 / 32	20	29 / 32
472 01	29 / 32	30	29 / 32
472 02	29 / 32	50	34 / 35
472 11	29 / 32	60	34 / 35
472 12	29 / 32	100	45 / 40
472 03	29 / 32	125	45 / 40
472 08	29 / 32	150	45 / 40
472 09	29 / 32	200	45 / 40
472 04	29 / 32	250	45 / 40
472 05	29 / 32	500	55 / 50
472 06	29 / 32	1000	70 / 50
472 07	29 / 32	2000	70 / 50





REFRIGERANTE PARA APARELHO SOXHLET

SOXHLET CONDENSER

Modelo ALLIHN

ALLIHN condenser

Ref.	Esmerilado macho Male joint	Cap. Extractor Extractor cap. ml
499 08	29 / 32	200
499 04	34 / 35	200
499 05	45 / 40	210
499 06	55 / 50	210
499 07	70 / 50	200

APARELHO PARA
DETERMINAÇÃO NITROGÉNIONITROGEN DETERMINATOR
APPARATUSCompleto
C/ ampola esférica direitaCompleto
With spheric ampoule, straight

Ref.		Quant. Cx. Bx.
521 00	Com placa porosa / <i>With sintered glass-disc</i>	1
522 00	Sem placa porosa / <i>Without sintered glass-disc</i>	1

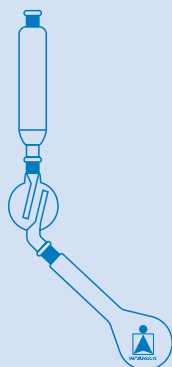
Completo
C/ ampola esférica a 45°Completo
With spheric ampoule, 45°

Ref.		Quant. Cx. Bx.
522 11	Com placa porosa / <i>With sintered glass-disc</i>	1
522 10	Sem placa porosa / <i>Without sintered glass-disc</i>	1

Componentes

Spare parts

Ref.	
474 08	Balão Kjeldahl, 500ml, IN 19/26 / <i>Kjeldahl flask, 500ml, IN 19/26</i>
521 01	Ampola cilíndrica com placa porosa / <i>Cylindrical ampoule, with sintered glass-disc</i>
521 02	Ampola cilíndrica sem placa porosa / <i>Cylindrical ampoule, w/o sintered glass-disc</i>
521 03	Ampola esférica, direita / <i>Spherical ampoule, straight</i>
521 04	Ampola esférica, a 45° / <i>Spherical ampoule, 45°</i>





APARELHOS APPARATUS

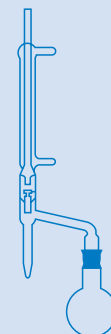
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APARELHO DEAN STARK DETERMINAÇÃO DE HUMIDADE

COMPLETE DEAN STARK APPARATUS

Ref.

530	Completo / <i>Complete</i>
473 08	Refrigerante Liebig, IN 24/29, 200 mm / <i>Liebig condenser</i>
643 02	Tubo receptor 10 e 25ml / <i>Receiver tube 10 and 25ml</i>
468 16	Balão fundo redondo de 500ml, IN 24/29 / <i>Round bottom flask 500ml</i>

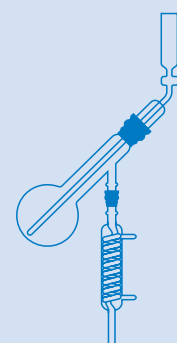


APARELHO DE DOSAGEM DO ARSÊNIO (LEDEBUR)

ARSENIC DETERMINATION APPARATUS

Ref.

531	Completo / <i>Complete</i>
53101	Balão fundo redondo de 500ml In 29/32 e 19/26 / <i>Round bottom flask 500ml</i>
53100	Cabeça de carga c/ torneira IN 29/32 / <i>Receiver tube w/ stopcock</i>
48200	Refrigerante c/ serpentina 200mm IN 19/26 / <i>Coil condenser 200mm</i>

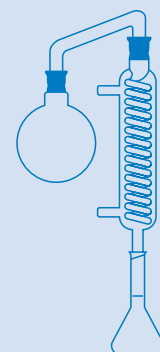


APARELHO PARA DETERMINAÇÃO DO GRAU ALCOÓLICO DOS VINHOS

DISTILLING APPARATUS FOR WINE ALCOHOL DEGREE DETERM.

Ref.

532	Completo / <i>Complete</i>
46819	Balão F. redondo 1000 ml 24/29 / <i>Round bottom flask 1000ml</i>
42604	Adaptad. forma de ponte 24/29 / <i>Receiver bends</i>
48201	Refrig. serpentina c/ IN macho / <i>Coil condenser</i>
3168732	Balão volumétrico 200 ml / <i>Volumetric flask 200ml</i>

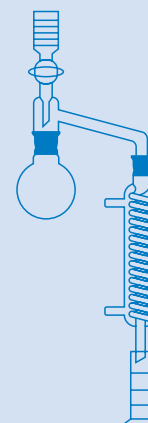


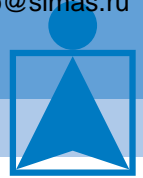
APARELHO PARA DETERMINAÇÃO DA ACIDEZ VOLATIL NOS VINHOS

APPARATUS FOR WINE VOLATILE ACIDITY DETERM.

Ref.

533	Completo / <i>Complete</i>
46806	Balão esférico de 50 ml IN 14/23 / <i>Round flask 50ml</i>
53300	Tubo de carga de 24 ml com IN 14/23 x 2 / <i>Receiver tube</i>
48202	Refrigerante de 100 ml IN 14/23, 150 mm / <i>Condenser 100 ml</i>
53301	Proveta acidímetro de 24 ml / <i>Acidimeter measuring cylinder</i>





REFRIGERANTES DAVIES

DAVIES CONDENSER

Com 2 juntas esmeriladas

With 2 ground joints

Ref.	Comp. útil L. mm	Junta esmerilada Ground joint
487 01	100	10 / 19
487 02	150	14 / 23
487 03	150	24 / 29
487 04	150	19 / 26
487 05	200	24 / 29
487 06	200	29 / 32
487 07	200	19 / 26
90 651 08	220	19 / 26
487 09	300	19 / 26
487 10	400	24 / 29
487 08	500	34 / 35

Com 1 junta esmerilada

With 1 ground joint

Ref.	Comp. útil L. mm	Junta esmerilada Ground joint
488 01	200	40 / 45
488 02	200	45 / 40
488 03	200	50 / 45

REFRIGERANTES DE LIEBIG

LIEBIG CONDENSERS

Com 2 juntas esmeriladas

With 2 ground joints

Ref.	Comp. útil L. mm	Esmerilado, macho e fêmea Male and female joint
486 01	150	10 / 19
486 02	150	14 / 23
486 03	200	19 / 26
486 04	200	24 / 29
486 09	250	19 / 26
486 10	250	24 / 29
486 05	400	19 / 26
486 06	400	24 / 29
486 07	400	29 / 32
486 08	500	34 / 35

Sem juntas esmeriladas

Without ground joints

Ref.	Comp. útil L. mm
473 04	150
473 01	200
473 05	250
473 02	300
473 03	400



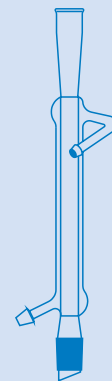
APARELHOS APPARATUS

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Com 1 junta esmerilada

With 1 ground joint

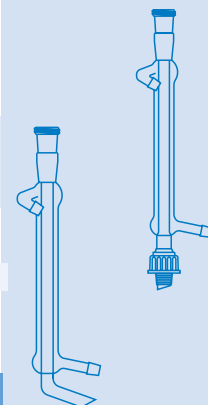
Ref.	Comp. útil L. mm	Esmerilada Ground joint
473 06	150	19 / 26
473 07	200	19 / 26
473 08	200	24 / 29
473 09	250	24 / 29
473 10	250	29 / 32
473 11	300	24 / 29
473 12	300	29 / 32
473 13	400	24 / 29
473 14	400	29 / 32



Refrigerante Liebig
Com rosca e esmerilado

Liebig condenser
Ground and Screwthreaded Joint

Ref.	Ref. Ponta curva With curved end	Comp. útil / Length mm	Quant. Cx./Bx.
91 650 00	91 650 00	200	1



REFRIGERANTES DE BOLAS

ALLIHN CONDENSERS

Com 2 juntas esmeriladas
Segundo ALLIHN

With 2 ground joints

Ref.	Comp. útil L. mm	Juntas esmeriladas Ground joint
491 06	160	14 / 23
491 07	160	19 / 26
491 01	200	19 / 26
491 08	250	19 / 26
491 02	300	19 / 26
491 03	300	24 / 29
491 04	300	29 / 32
491 05	400	29 / 32



Com 1 junta esmerilada
Segundo ALLIHN

With 1 ground joint

Ref.	Comp. útil L. mm	Juntas esmeriladas Ground joint
490 01	200	19 / 26
490 02	200	24 / 29
490 03	200	29 / 32
490 04	160	19 / 26
490 05	250	19 / 26
490 06	250	24 / 29
490 07	300	24 / 29
490 08	300	29 / 32
490 09	400	29 / 32





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APARELHOS APPARATUS

Sem juntas esmeriladas
Segundo ALLIHN

Without Ground Joints

Ref.	Comp. útil
	L. mm
467 04	160
467 01	200
467 05	250
467 02	300
467 03	400

Refrigerante bolas
Com rosca e esmerilado

Ball condenser
Ground and Screwthreaded Joint

Ref.	Comp. util / Length mm	Quant.
		Cx./Bx.
91 650 06	200	1

REFRIGERANTES DE SERPENTINA

COIL CONDENSER

Sem juntas esmeriladas

Without ground joints

Ref.	Comp. útil
	L. mm
453 00	160
453 01	200
453 03	250
453 02	300
453 04	400

Com 1 junta esmerilada

With 1 ground joint

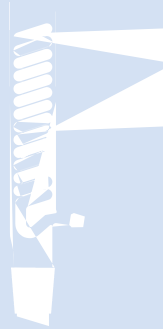
Ref.	Comp. útil	Junta Esmerilada Ground Joint
	L. mm	
484 01	150	29 / 32
484 02	150	34 / 35
484 04	200	14 / 23
484 05	250	29 / 32
484 06	250	34 / 35
484 07	250	45 / 40
484 08	300	14 / 23
484 09	300	29 / 32
484 10	300	45 / 40
484 11	400	29 / 32
484 03	200	45 / 40

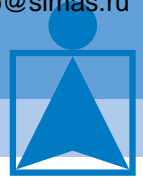


Com 2 juntas esmeriladas
Modelo Graham

With 2 ground joints
Graham type

Ref.	Comp. útil L. mm	Juntas esmeriladas Ground Joints
485 01	150	19 / 26
485 02	150	24 / 29
485 03	150	29 / 32
485 09	250	19 / 26
485 10	250	24 / 29
485 11	250	29 / 32
485 04	300	19 / 26
485 05	300	24 / 29
485 06	300	29 / 32
485 07	400	24 / 29
485 08	400	29 / 32





COLUNAS DE VIGREUX

VIGREUX COLUMNS

Ref.	Comp. útil L. mm	Junta esmerilada Ground joint
492 01	360	24 / 29
492 02	600	24 / 29
492 03	360	29 / 32
492 04	200	14 / 23
492 05	300	14 / 23
492 06	300	24 / 29
492 07	400	24 / 29
492 08	400	29 / 32
492 10	600	29 / 32
492 11	800	24 / 29
492 12	800	29 / 32

Com Rosca e Esmerilado

Ground and Screwthreaded Joint

Ref.	Comp. útil / Length mm	Quant. Cx./Bx.
91 650 02	200	1

COLUNAS RECTAS

PLAIN COLUMNS

Ref.	Comp. útil L. mm	Junta esmerilada Ground joint
495 01	320	24 / 29
495 02	570	24 / 29
495 03	570	29 / 32
495 04	820	24 / 29
495 05	350	34 / 35
495 06	600	34 / 35

COLUNAS CROMATOGRAFIA

CHROMATOGRAPHIC COLUMNS

Com torneira de vidro

With glass stopcock

Ref. Com placa porosa With sintered glass-disc	Ref. Sem placa porosa W/o S. glass-disc	Ø int. I.D. mm	Comp. útil Eff. length mm
34 370 00x	34 370 00	10	100
34 370 01x	34 370 01	10	200
34 370 09x	34 370 09	15	200
34 370 03x	34 370 03	15	400
34 370 04x	34 370 04	20	400
34 370 05x	34 370 05	20	600
34 370 06x	34 370 06	30	400
34 370 07x	34 370 07	30	600
34 370 08x	34 370 08	40	800
34 370 02x	34 370 02	20	200

Substituir "x" pela porosidade desejada

Replace "x" by the required porosity



APARELHOS APPARATUS

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AMPOLA DECANTAÇÃO

SEPARATING FUNNELS

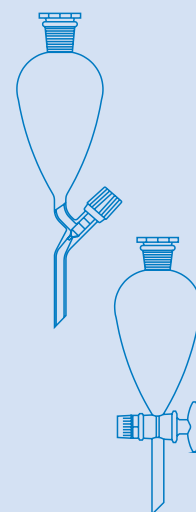
Forma pera

Tampa plástico

Pear shape

Plastic stopper

Cap. ml	Tampa Stopper	Furo Bore	Ref. Macho vidro Glass key	Ref. Macho PTFE PTFE key	Ref. Rosca PTFE PTFE spindle
25	14 / 23	2,5	447 01	449 01	450 01
25	19 / 26	2,5	447 12	449 12	450 12
50	14 / 23	2,5	447 02	449 02	450 02
50	19 / 26	2,5	447 03	449 03	450 03
100	14 / 23	2,5	447 04	449 04	450 04
100	19 / 26	2,5	447 05	449 05	450 05
250	19 / 26	4	447 07	449 07	450 07
250	29 / 32	4	447 13	449 13	450 13
500	19 / 26	4	447 08	449 08	450 08
500	29 / 32	4	447 14	449 14	450 14
1000	29 / 32	6	447 09	449 09	450 09
2000	29 / 32	6	447 11	449 11	450 11

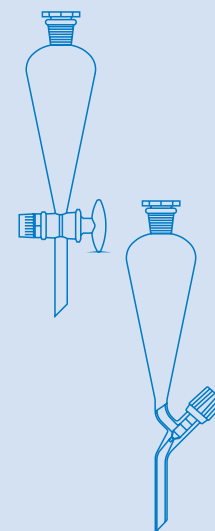


Forma cónica
Tampa plástico

Conical shape

Plastic stopper

Cap. ml	Tampa Stopper	Furo Bore	Ref. Macho vidro Glass key	Ref. Macho PTFE PTFE key	Ref. Rosca PTFE PTFE spindle
25	14 / 23	2,5	441 07	448 07	451 07
25	19 / 26	2,5	441 14	448 14	451 14
50	14 / 23	2,5	441 01	448 01	451 01
50	19 / 26	2,5	441 08	448 08	451 08
100	14 / 23	2,5	441 02	448 02	451 02
100	19 / 26	2,5	441 03	448 03	451 03
250	19 / 26	4	441 10	448 10	451 10
250	29 / 32	4	441 04	448 04	451 04
500	19 / 26	4	441 11	448 11	451 11
500	29 / 32	4	441 05	448 05	451 05
1000	24 / 29	6	441 12	448 12	451 12
1000	29 / 32	6	441 06	448 06	451 06
2000	29 / 32	6	441 13	448 13	451 13

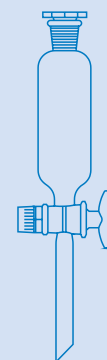


Forma cilíndrica
Macho de vidro

Cylindrical shape

Glass key

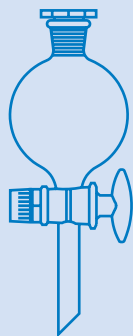
Cap. ml	Junta cónica Ground joint	Ref. Lisa Unprinted	Ref. Graduada Graduated
25	14 / 23	434 01	434 15
50	14 / 23	434 02	434 16
50	19 / 26	434 07	434 17
100	14 / 23	434 08	434 18
100	19 / 26	434 03	434 19
250	19 / 26	434 04	434 20
250	29 / 32	434 09	434 21
500	24 / 29	434 10	434 22
500	29 / 32	434 11	434 23
1000	24 / 29	434 12	434 24
1000	29 / 32	434 13	434 25
2000	29 / 32	434 14	434 26





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APARELHOS APPARATUS



Forma esférica

Spherical shape

Cap. ml	Ref.	IN	Diam. mm
50	437 01	19 / 26	50
100	437 02	19 / 26	60
250	437 03	19 / 26	85
500	437 04	19 / 26	100
500	437 05	24 / 29	100
1000	437 06	19 / 26	135
1000	437 07	29 / 32	135



Forma esférica
Tampa plástico
Junta cónica

Spherical shape
Plastic stopper
Ground joint

Cap. ml	Junta cónica Ground Joint	Macho vidro Glass key	Macho teflon PTFE key
50	14 / 23		90 650 69
100	19 / 26		90 650 33
100	19 / 26	90 650 31	
250	29 / 32	90 650 75	
250	29 / 32		90 650 76

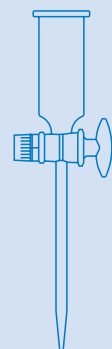
FUNIS DE CARGA

DROPPING FUNNEL

Forma cilíndrica

Cylindrical shape

Cap. ml	Macho vidro Glass key	Macho teflon PTFE key
30	432 01	90 650 32
50	90 650 40	90 650 86
60	432 02	
125	432 03	
250	432 04	
500	432 10	
1000	432 13	
2000	432 14	





APARELHOS APPARATUS

10

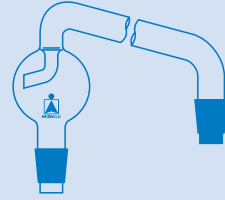
AMPOLA DE RETROGRADAÇÃO

SPLASH HEADS

Haste longa c/ 2 esmerilados

With 2 vertical ground cones

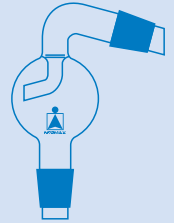
Ref.	Esmerilado vertical Vertical cones	Esmerilado lateral Lateral cones
428 01	19 / 26	19 / 26
428 02	24 / 29	19 / 26
428 03	24 / 29	24 / 29
428 04	14 / 23	14 / 23
428 05	29 / 32	29 / 32



Modelo SLOPING

SLOPING type

Ref.	Esmerilado vertical Vertical cones	Esmerilado lateral Lateral cones
429 01	19 / 26	19 / 26
429 02	24 / 29	19 / 26
429 03	24 / 29	24 / 29
429 04	29 / 32	29 / 32
429 05	34 / 35	19 / 26
429 06	34 / 35	34 / 35
429 07	14 / 23	14 / 23



Modelo STUTZER

STUTZER type

Ref.	Esmerilado vertical Vertical cones	Esmerilado lateral Lateral cones
431 00	19 / 26	24 / 29
431 01	14 / 23	14 / 23
431 02	29 / 32	29 / 32





ACESSÓRIOS FITTINGS

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ADAPTADORES

HOSE CONNECTORS

Ref. Boro 3.3	Comp. total Total length mm	Diam. ext. O.D. mm
521 34	115	8
521 35	115	9
521 36	115	10



Em T

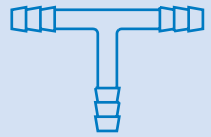
T Connectors

Ref. Boro 3.3	Comp. total Total length mm	Diam. ext. O.D. mm
521 30	115	8 - 9
521 31	115	10 - 11

Em Y

Y Connectors

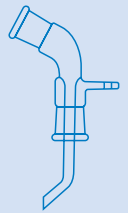
Ref. Boro 3.3	Comp. total Total length mm	Diam. ext. O.D. mm
521 32	115	8 - 9
521 33	115	10 - 11



Com ângulo 105°

With 2 sockets Bent at 105°

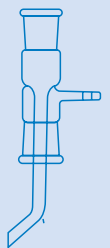
Ref.	IN topo Upper size	IN na base Lower size
521 18	14 / 23	19 / 26
521 19	19 / 26	24 / 29
521 20	29 / 32	29 / 32



Direito

Straight

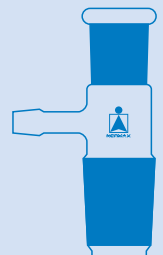
Ref.	IN topo Upper size	IN base Lower size
521 25	14 / 23	19 / 26
521 26	19 / 26	24 / 29
521 27	29 / 32	29 / 32



Conecção em "T"

T Connection

Ref.	IN fêmea Female	IN macho Male
405 01	14 / 23	14 / 23
405 02	14 / 23	19 / 26
405 03	14 / 23	24 / 29
405 04	19 / 26	19 / 26
405 05	19 / 26	24 / 29
405 06	19 / 26	29 / 32
405 07	19 / 26	34 / 35
405 08	24 / 29	24 / 29
405 09	29 / 32	29 / 32





ADAPTADORES DE AMPLIAÇÃO

EXPANSION ADAPTERS

Ref.	IN fêmea Female	IN macho Male
401 01	14 / 23	10 / 19
401 02	19 / 26	14 / 23
401 03	24 / 29	14 / 23
401 04	24 / 29	19 / 26
401 05	29 / 32	14 / 23
401 06	29 / 32	19 / 26
401 07	29 / 32	24 / 29
401 08	34 / 35	19 / 26
401 09	34 / 35	24 / 29
401 10	34 / 35	29 / 32
401 11	40 / 38	29 / 32



ADAPTADORES DE REDUÇÃO

REDUCTION ADAPTERS

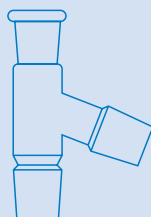
Ref.	IN fêmea Female	IN macho Male
400 01	10 / 19	14 / 23
400 02	14 / 23	19 / 26
400 03	14 / 23	24 / 29
400 04	14 / 23	29 / 32
400 05	19 / 26	24 / 29
400 06	19 / 26	29 / 32
400 07	19 / 26	34 / 35
400 08	19 / 26	40 / 38
400 09	19 / 26	45 / 40
400 10	19 / 26	55 / 44
400 11	24 / 29	29 / 32
400 12	24 / 29	34 / 35
400 13	24 / 29	40 / 38
400 14	24 / 29	45 / 40
400 15	24 / 29	50 / 42
400 16	24 / 29	55 / 44
400 17	29 / 32	34 / 35
400 18	29 / 32	45 / 40
400 19	34 / 35	40 / 38
400 20	34 / 35	45 / 40
400 21	34 / 35	50 / 42
400 22	34 / 35	55 / 44



ADAPTADORES MÚLTIPLOS

MULTIPLE ADAPTERS

Ref.	IN Cone
427 19	14 / 23
427 20	29 / 32





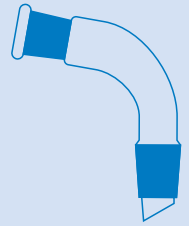
ACESSÓRIOS FITTINGS

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ADAPTADORES CURVOS

PLAIN BENDS, SOCKET TO CONE

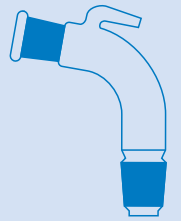
Ref.	IN fêmea Female	IN macho Male	Comp. L. mm
414 01	14 / 23	14 / 23	90
414 02	19 / 26	19 / 26	100
414 03	19 / 26	24 / 29	110
414 04	24 / 29	24 / 29	125
414 05	34 / 35	34 / 35	155



Com tubo de respiração

With hose

Ref.	IN fêmea Female	IN macho Male	Comp. L. mm
415 01	10 / 19	10 / 19	75
415 02	14 / 23	14 / 23	80
415 03	19 / 26	19 / 26	100
415 04	19 / 26	24 / 29	120
415 05	24 / 29	24 / 29	130
415 06	29 / 32	29 / 32	155

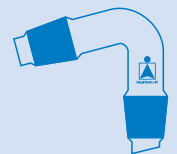
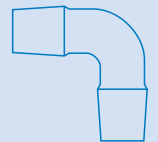


ADAPTADORES UNIÃO

RECOVERY BENDS, SLOPING

Com ângulos

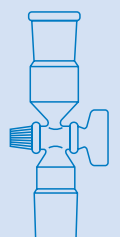
Ref. 75°	Ref. 90°	IN	IN
427 01	427 10	14 / 23	14 / 23
427 02	427 11	19 / 26	19 / 26
427 03	427 12	24 / 29	14 / 23
427 04	427 13	24 / 29	19 / 26
427 05	427 14	24 / 29	24 / 29
427 06	427 15	29 / 32	19 / 26
427 07	427 16	29 / 32	29 / 32
427 08	427 17	34 / 35	19 / 26
427 09	427 18	34 / 35	24 / 29



ADAPTADORES COM TORNEIRA

CONNECTORS WITH STOPCOCK, CONE AND SOCKET

Ref.	IN fêmea Female	IN macho Male	Furo Bore
521 05	14 / 23	14 / 23	2,5
521 06	19 / 26	24 / 29	4,0
521 07	24 / 29	24 / 29	4,0
521 08	29 / 32	29 / 32	8,0





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ACESSÓRIOS FITTINGS

ADAPTADORES DE DESTILAÇÃO

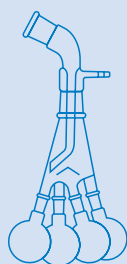
STRAIGHT DELIVERY ADAPTERS



Ref.	IN fêmea Female	Comp. L. mm
413 01	14 / 23	180
413 02	19 / 26	180
413 03	24 / 29	180
413 04	29 / 32	180
413 05	34 / 35	180
413 06	45 / 40	300
413 07	19 / 26	80

Com 4 balões 14/23, oblíquo

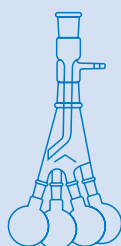
Bredt, with 4 flasks NS 14/23, oblique



Ref.	IN lateral Side socket size	IN vertical Vertical cone	Cap. do balão Flask capacity ml
521 09	14 / 23	19 / 26	50
521 10	19 / 26	19 / 26	50
521 11	19 / 26	24 / 29	100
521 12	29 / 32	29 / 32	100

Com 4 balões 14/23, direito

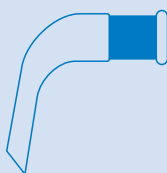
Bredt, with 4 flasks NS 14/23, straight



Ref.	IN do topo Upper size	IN Lower size	Cap. do balão Flask capacity ml
521 13	14 / 23	19 / 26	50
521 14	19 / 26	24 / 29	100
521 15	29 / 32	29 / 32	100
521 16	29 / 32	29 / 32	250

Curtos

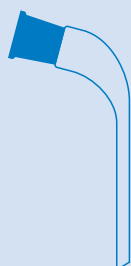
Short



Ref.	IN fêmea Female	Comp. Length mm
411 01	14 / 23	65
411 02	19 / 26	65
411 03	24 / 29	65
411 04	29 / 32	65

Longos

Long



Ref.	IN fêmea Female	Comp. L. mm
412 01	10 / 19	120
412 02	14 / 23	190
412 03	19 / 26	200
412 04	24 / 29	200
412 05	29 / 32	200



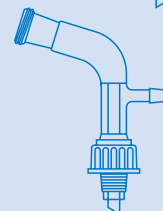
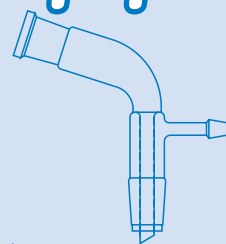
ACESSÓRIOS FITTINGS

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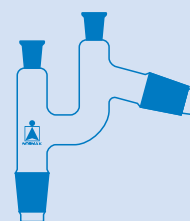
Para vácuo

Vacuum connection

Ref.	Ref. Com Rosca e Esmerilado Ground and Screwthreaded	IN fêmea Female	IN macho Male	Comp. L. mm
416 01		14 / 23	14 / 23	110
416 02		19 / 26	19 / 26	130
416 03		19 / 26	24 / 29	140
416 04		24 / 29	24 / 29	140
416 05	91 650 05	29 / 32	29 / 32	155



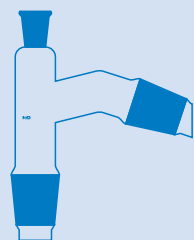
Ref.	IN fêmea Female	IN macho Male	IN macho Male
425 01	14 / 23	14 / 23	14 / 23
425 02	19 / 26	19 / 26	14 / 23
425 03	24 / 29	19 / 26	14 / 23
425 04	24 / 29	24 / 29	14 / 23
425 05	29 / 32	29 / 32	14 / 23
425 06	34 / 35	19 / 26	14 / 23



ADAPTADOR TERMÓMETRO

THERMOMETER ADAPTER

Ref.	IN	GL
455 01	14 / 23	14
455 02	19 / 26	14
455 05	19 / 26	18
455 06	29 / 32	18



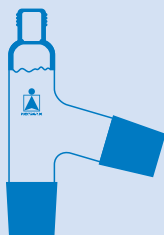


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ACESSÓRIOS FITTINGS

Com Rosca para Termómetro

Cones with screwthreads



Ref.	Tamanho Rosca Screw	IN Central	IN Lateral
442 01	GL-14	14 / 23	14 / 23
442 02	GL-14	19 / 26	14 / 23
442 03	GL-14	24 / 29	14 / 23
442 04	GL-14	29 / 32	19 / 26

ADAPTADOR ESMERILADO

CONE / FLEXIBLE TUBING ADAPTER



Ref.	IN	Ø ext. oliva O.D. of olive mm
410 01	19 / 26	9
410 02	24 / 29	9
410 03	29 / 32	9

Ligação direita

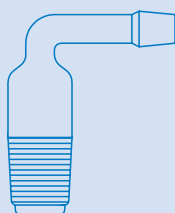
Straight connection



Ref.	IN	Ø ext. oliva O.D. of olive mm
408 01	14 / 23	9
408 02	19 / 26	9
408 03	24 / 29	9

Ângulo 90° para a direita

90 ° Right angled connection



Ref.	IN	Ø ext. oliva O.D. of olive mm
409 01	10 / 19	9
409 02	14 / 23	9
409 03	19 / 26	9
409 04	24 / 29	9
409 05	29 / 32	9
409 06	34 / 35	9

Com torneira

Right angled connection
With stopcocks

Ref.	IN	Ø ext. oliva O.D. of olive mm
418 01	14 / 23	9
418 02	19 / 26	9
418 03	24 / 29	9
418 04	29 / 32	9



ACESSÓRIOS FITTINGS

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ADAPTADORES PARA VÁCUO

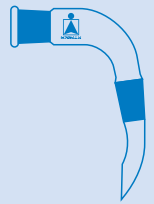
VERTICAL DELIVERY ADAPTERS

Ref.	IN Fêmea Female	IN Macho Male
422 00	19 / 26	19 / 26



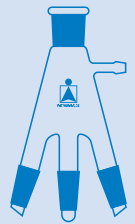
Sloping

Ref.	IN Fêmea Female	IN Macho Male
423 00	19 / 26	19 / 26



Multi-limb

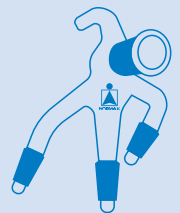
Ref.	IN Fêmea Female	IN Macho Male
421 00	19 / 26	14 / 23



Com Multiplas Saidas

Multiple connection

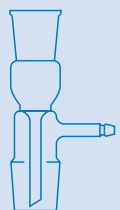
Ref.	IN Fêmea Female	IN Macho Male	Comp. L. mm
420 01	10 / 19	10 / 19	65
420 02	14 / 23	14 / 23	110
420 03	19 / 26	14 / 23	110
420 04	29 / 32	14 / 23	115



ADAPTADORES PARA VÁCUO RECTOS

VERTICAL RECEIVER ADAPTERS WITH VACUUM COONECTION

Ref.	IN fêmea Female	IN macho Male	Comp. Length mm
417 00	24 / 29	24 / 29	140
417 01	14 / 23	14 / 23	125



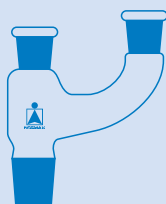


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ACESSÓRIOS FITTINGS

ADAPTADORES COM DOIS
COLOS PARALELOS

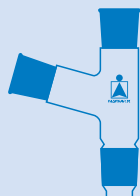
MULTIPLE ADAPTERS,
TWO PARALLEL NECKS



Ref.	IN fêmea Female	IN macho Male
402 01	10 / 19	10 / 19
402 02	14 / 23	14 / 23
402 03	19 / 26	19 / 26
402 04	19 / 26	24 / 29
402 05	19 / 26	34 / 35
402 06	24 / 29	24 / 29
402 07	29 / 32	29 / 32

ADAPTADORES COM DOIS
COLOS EM ÂNGULO

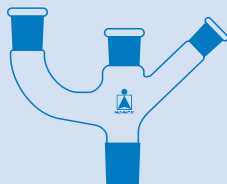
MULTIPLE ADAPTERS,
TWO ANGLED NECKS



Ref.	IN fêmea Female	IN macho Male
403 01	19 / 26	19 / 26
403 02	19 / 26	24 / 29

ADAPTADORES COM TRÊS COLOS

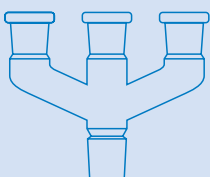
MULTIPLE ADAPTERS, THREE NECKS



Ref.	IN fêmea Female	IN fêmea Female	IN macho Male
404 01	19 / 26	14 / 23	24 / 29
404 02	19 / 26	19 / 26	24 / 29
404 03	19 / 26	19 / 26	24 / 29
404 04	19 / 26	19 / 26	34 / 35

ADAPTADORES MÚLTIPLOS
COM TRÊS COLOS

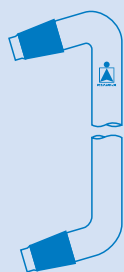
MULTIPLE ADAPTERS,
WITH THREE NECKS



Ref.	IN fêmea Female	IN macho Male
421 01	14 / 23	14 / 23
421 02	19 / 26	29 / 32
421 03	29 / 32	29 / 32

ADAPTADORES EM FORMA DE PONTE

RECOVERY BENDS, VERTICAL



Ref.	IN Cone	IN Cone
426 01	14 / 23	14 / 23
426 02	19 / 26	19 / 26
426 03	24 / 29	19 / 26
426 04	24 / 29	24 / 29
426 05	45 / 40	45 / 40
426 06	29 / 32	29 / 32



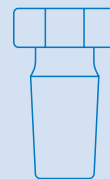
ACESSÓRIOS FITTINGS

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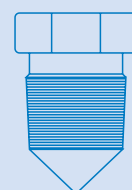
ROLHA OCTOGONAL

STOPPERS

Ref. Br / White Acabado Finished	Ref. Ambar Acabado Finished	IN
266 08 Redonda / Round	267 08 Redonda / Round	7 / 16
266 09 Redonda / Round	267 09 Redonda / Round	10 / 19
266 01	267 01	12 / 21
266 02	267 02	14 / 23
266 03	267 03	19 / 26
266 04	267 04	24 / 29
266 05	267 05	29 / 32
266 06	267 06	34 / 35
266 07	267 07	45 / 40



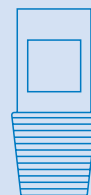
Ref. Br. / White Acabado Finished	IN
266 18	45 / 40



ROLHAS DE VIDRO COM OU SEM GRAMPOS

GLASS STOPPERS WITH OR WITHOUT CLAMPS

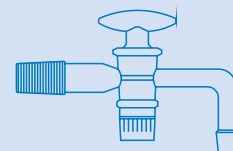
Ref. Sem grampos Without clamps	Ref. Com grampos With clamps	IN
516 01	515 01	7 / 16
516 02	515 02	10 / 19
516 03	515 03	12 / 21
516 04	515 04	14 / 23
516 05	515 05	19 / 26
516 06	515 06	24 / 29
516 07	515 07	29 / 32
516 08	515 08	34 / 35
516 09	515 09	45 / 40



TORNEIRAS PARA BARRIS

TAPS FOR ASPIRATOR BOTTLES

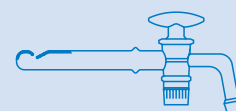
Ref.	Ø Furo Bore mm	IN
506 02	6	19



TORNEIRA PARA DESSECADOR

STOPCOCK FOR DESICCATOR

Ref.	IN
90 650 21	14





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ACESSÓRIOS FITTINGS

JUNTAS DUPLAS

CONNECTOR, DOUBLE

DIN 12215



Ref. Duran	Diam. Ext. O.D. mm	Esp. Thick mm	Comp. Length mm
251 01	6	1,5	115
251 02	8	1,5	115
251 03	9	1,5	115
251 04	10	1,5	115
251 05	11	1,5	115
251 06	12	1,5	115

PIPETA COM BOLA

PIPETTE WITH BULB



Ref.	Comp.. L. ml	Quant. Cx./Bx.
90 650 34	170	55

TAMPAS CONTA-GOTAS

SCREW-CAP AND SUCKER

Ref.

60 200 05	Capsula de aluminio 13 mm	<i>Aluminium cap 13 mm</i>
65 070 02	Capsula de aluminio 20 mm	<i>Aluminium cap 20 mm</i>
60 200 04	Rolha de borracha 13 mm	<i>Rubber cap 13 mm</i>
65 070 00	Rolha de liofilização 20 mm (estérel)	<i>Steril lyophilization cap 20 mm</i>
64 070 01	Rolha de borracha 20 mm	<i>Rubber cap 20 mm</i>



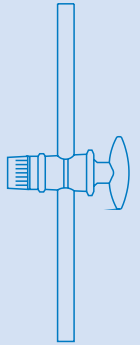
SEMI-ACABADOS SEMI-FINISHED

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TORNEIRAS RECTAS

ONE-WAY STOPCOCKS

Ref. Macho Vidro Glass key	Ref. Macho PTFE PTFE key	Ø Furo Bore mm	Ø Ext. das hastes Stem O.D. mm	Comp. das hastes Stem L. mm
502 01	501 01	1,5	8	100
502 02	501 02	2,5	9	100
502 03	501 03	4	10	100
502 04	501 04	6	13	100
502 05	501 05	8	15	130
502 06	501 06	10	18	150



Semi-acabada, Esm. 0,2mm

Semi finished 0,2mm

Ref. Soda	Ref. Boro	Ø Furo Ø Bore mm	Ø Tubo Ø Tube mm	Comp. Length mm	Máx. I.D. mm
281 01	280 01	1,5	8	100	12,5
281 02	280 02	2,5	9	100	14,5
281 03	280 03	4,0	10	100	18,8



Haste capilar

Capillary glass

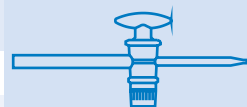
Ref.	Ø Furo Bore mm	Ø das hastes Stem Ø mm	Comp. das hastes Stem L. mm
505 01	1,5	8	100
505 02	2,5	9	100



TORNEIRAS PARA BURETA, COMPLETA

BURETTE STOPCOCKS

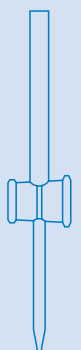
Ref. Macho Vidro Glass key	Ref. Macho PTFE PTFE key	Ø Furo Bore mm	Ø Haste Stem O.D. mm	Comp. L. mm	Máx. I.D. mm	IN
272 01	282 01	1,5	8	60 / 30	12,5	12
272 02	282 02	2,5	9	60 / 30	14,5	14
272 03	282 03	3,0	9	80 / 30	19,0	19

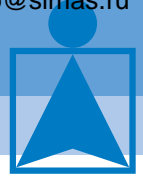


Sem macho, Semi-acabada, Esm. 0,2mm

Single bore stopcocks Semi finished 0,2mm

Ref. Soda	Ref. Boro	Ø Tubo Ø Tube mm	Comp. Length mm	Máx. I.D. mm
270 01	271 01	8	60 / 30	12,5
270 02	271 02	9	60 / 30	14,5
270 03	271 03	9	80 / 30	19,0





12

SEMI-ACABADOS SEMI-FINISHED

Angular

Angled

Ref. Lisa Unground BORO 3.3 SODA		Ref. Esmer. Ground 0,2mm BORO 3.3 SODA		Ref. Esmer. Ground BORO 3.3 SODA		Ø Furo Ø Bore mm	Máx. I.D. mm
273 01	273 02	274 01	274 02	275 01	275 02	1,5	12,5

TORNEIRAS PARA BURETAS ANGULAR

BURETTE STOPCOCK, ANGLED

Ref. Macho BORO 3.3 / KEY	Ref. Macho PTFE / KEY	Ø Furo Ø Bore mm	IN
276 01	276 02	1,5	12,5

MACHOS P/ TORNEIRAS DE BURETAS ENTRADA LATERAL

BURETTE STOPCOCK KEYS, SIDE ENTRY

Ref.	Ø Furo Ø Bore mm	IN
277 01	1,5	12
277 02	2,5	14

TORNEIRA PARA BURETAS, ROSCA FINA, VEDAÇÃO PTFE

STOPCOCK FOR BURETTES PTFE GASKET

Ref.	Tubo O.D. mm	Passagem Passage mm	Cap. Bureta Burette Cap.
24 154 02S	9	0 - 2,5	10
24 154 03S	10	0 - 4	25
24 154 04S	10	0 - 6	50

TORNEIRA PARA BURETAS, ROSCA FINA, VEDAÇÃO PTFE, PONTA CAPILAR

STOPCOCK FOR BURETTES CAPILLARY END, PTFE GASKET

Ref.	Passagem Passage mm	Cap. Bureta Burette Cap.
24 155 02S	0 - 2,5	10
24 155 03S	0 - 4	25
24 155 04S	0 - 6	50

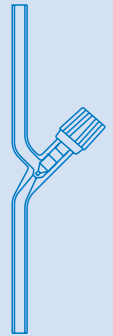


SEMI-ACABADOS SEMI-FINISHED

12

TORNEIRA COM VÁLVULA DE PASSAGEM,
ROSCA FINA, VEDAÇÃO PTFE

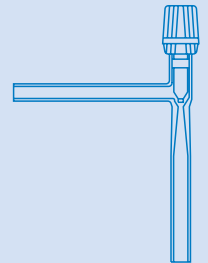
STOPCOCK WITH
PTFE GASKET



Ref.	Tubo O.D. mm	Passagem Pasage mm
24 151 02S	9	0 - 2,5
24 151 03S	10	0 - 4
24 151 04S	10	0 - 6

TORNEIRA COM VÁLVULA ANGULAR,
ROSCA FINA, VEDAÇÃO PTFE

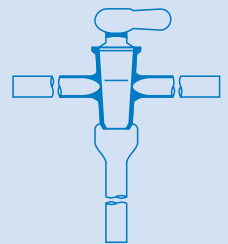
STOPCOCK 90°
PTFE GASKET



Ref.	Tubo O.D. mm	Passagem Pasage mm
24 152 02S	9	0 - 2,5
24 152 03S	10	0 - 4
24 152 04S	10	0 - 6

TORNEIRAS DE 3 VIAS
PARA VÁCUO

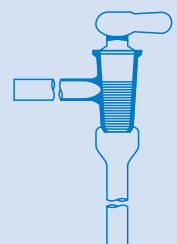
THREE-WAY VACUUM
STOPCOCKS



Ref.	Ø Furo Bore mm	Ø das hastes Stem Ø mm
507 01	2	6
507 02	4	9
507 03	6	11
507 04	8	13
507 05	10	15

TORNEIRAS DE 2 VIAS
PARA VÁCUO

TWO-WAY VACUUM
STOPCOCKS



Ref.	Ø Furo Bore mm	Ø das hastes Stem Ø mm
508 01	2	6
508 02	4	9
508 03	6	11
508 04	8	13
508 05	10	15



SEMI-ACABADOS SEMI-FINISHED

12

ESMERILADOS MACHO SEM BISEL

CONES, PLAIN END

Simples

DIN 12249 / ISO 383

Single

Ref.	IN	Comp. Length mm	Diam. Ext. Max. O.D. mm	Diam. Min. Min. O.D. mm	Esp. Thick mm
497 01	5 / 13	113	4,0	1,5	0,8
497 02	7 / 16	116	6,0	2,5	1,5
497 03	10 / 19	119	8,0	5,0	1,5
497 04	12 / 21	121	11,0	6,5	1,5
497 05	14 / 23	123	13,0	8,5	1,5
497 06	19 / 26	126	17,0	12,0	1,8
497 07	24 / 29	139	22,0	16,5	1,8
497 08	29 / 32	142	26,0	21,0	2,0
497 09	34 / 35	145	30,0	26,0	2,0
497 11	45 / 40	150	40,0	35,0	2,3
497 14	60 / 43	166	56,0	47,5	2,5



Duplos

DIN 12249 / ISO 383

Double

Ref.	IN	Comp. Length mm	Diam. Ext. Max. O.D. mm	Esp. Thick mm
200 01	10 / 19	90	9,0	1,0
200 08	12 / 21	121	11,0	1,5
200 02	14 / 23	123	13,0	1,5
200 03	19 / 26	128	17,0	1,8
200 04	24 / 29	144	22,0	1,8
200 05	29 / 32	150	26,0	2,0
200 06	34 / 35	153	30,0	2,0
200 07	45 / 40	160	40,0	2,3



ESMERILADOS MACHO, COM BISEL

CONES, ANGLED DRIP

Simples

DIN 12249 / ISO 383

Single

Ref.	IN	Comp. Length mm	Diam. Ext. Max. O.D. mm	Esp. Thick mm
496 01	10 / 19	90	9,0	1,0
496 02	12 / 21	121	11,0	1,5
496 03	14 / 23	123	13,0	1,5
496 04	19 / 26	128	17,0	1,8
496 05	24 / 29	144	22,0	1,8
496 06	29 / 32	150	26,0	2,0
496 07	34 / 35	153	30,0	2,0
496 09	45 / 50	160	40,0	2,3





12

SEMI-ACABADOS
SEMI-FINISHED

Duplos

DIN 12249 / ISO 383

Double



Ref.	IN	Comp. Length mm	Diam. Ext. Max. O.D. mm	Esp. Thick mm
202 01	14 / 23	156	13,0	1,5
202 02	19 / 26	166	17,0	1,5
202 03	24 / 29	188	22,0	1,8
202 04	29 / 32	200	26,0	2,0

ESMERILADOS MACHO, LONGO

CONES, LONG TIP

Simples

DIN 12249 / ISO 383

Single



Ref.	IN	Comp. Length mm	Diam. Ext. Max. O.D. mm	Esp. Thick mm
203 02	10 / 19	90	9,0	1,0
203 11	12 / 21	121	11,0	1,5
203 03	14 / 23	123	13,0	1,5
203 04	19 / 26	128	17,0	1,8
203 05	24 / 29	144	22,0	1,8
203 06	29 / 32	150	26,0	1,8
203 07	34 / 35	153	30,0	2,0
203 09	45 / 40	160	40,0	2,3

Duplos

Double



Ref.	IN	Comp. Length mm	Diam. Ext. Max. O.D. mm	Esp. Thick mm
206 01	14 / 23	55	14,0	1,5
206 02	19 / 26	60	18,0	1,8
206 03	24 / 29	95	22,0	1,8
206 04	29 / 32	125	28,0	2,0

ESMERILADOS MACHO E FÊMEA

CONES, MALE AND FEMALE

Esférico

Spherical



Ref.	INE	Comp. Length mm	Diam. Ext. Max. O.D. mm	Diam. Esf. Sphere Diam. mm
209 01	S-13	100	8,0	12,700
209 02	S-13	100	8,0	12,700
209 03	S-19	100	13,0	19,050
209 04	S-29	100	20,0	28,575
209 05	S-35	100	24,0	34,925
209 06	S-41	100	32,0	41,275
209 07	S-51	100	38,0	50,800



SEMI-ACABADOS SEMI-FINISHED

12

ESMERILADOS FÊMEA

SOCKETS, ROLLED SHOULDER

Simples

DIN 12249 / ISO 383

Single

Ref.	IN	Comp. Length mm	Diam. Ext. Max. O.D. mm	Esp. Thick mm
498 01	5 / 13	113	8,0	1,0
498 02	7 / 16	116	10,0	1,5
498 03	10 / 19	119	13,0	1,5
498 04	12 / 21	121	15,0	1,8
498 05	14 / 23	123	17,0	1,8
498 06	19 / 26	126	22,0	1,8
498 07	24 / 29	129	28,0	2,0
498 08	29 / 32	132	33,0	2,0
498 09	34 / 35	135	40,0	2,3
498 11	45 / 40	140	50,0	2,5
498 14	60 / 46	180	65,0	3,2



Duplos

DIN 12249 / ISO 383

Double

Ref.	IN	Comp. Length mm	Diam. Ext. Max. O.D. mm	Esp. Thick mm
208 01	7 / 16	122	10,0	1,5
208 02	10 / 19	128	13,0	1,5
208 03	14 / 23	136	17,0	1,8
208 04	19 / 26	142	22,0	1,8
208 05	24 / 29	168	28,0	2,0
208 06	29 / 32	174	34,0	2,0
208 07	34 / 35	180	40,0	2,3
208 08	45 / 40	190	50,0	2,5



ROLHA OCTOGONAL

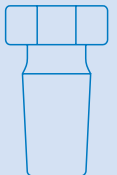
STOPPERS

Ref. Br / White
Esm. 0,2mm
Ground 0,2mm

Ref. Ambar
Esm. 0,2mm
Ground 0,2mm

IN

265 08 Redonda / Round	264 08 Redonda / Round	7 / 16
265 09 Redonda / Round	264 09 Redonda / Round	10 / 19
265 01	264 01	12 / 21
265 02	264 02	14 / 23
265 03	264 03	19 / 26
265 04	264 04	24 / 29
265 05	264 05	29 / 32
265 06	264 06	34 / 35
265 07	264 07	45 / 40

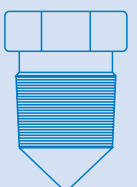


Ref. Br. / White
Esm. 0,2mm
Ground 0,2mm

IN

265 18

45 / 40





12

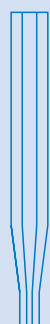
SEMI-ACABADOS
SEMI-FINISHED

TUBOS DE JUNÇÃO COM ROSCA

JUNCTION TUBES

DIN 12216

Ref.	GL	Diam. Ext. O.D. mm	Esp. Thick mm	Comp. Length mm
250 01	14	12	1,5	110
250 02	18	16	1,8	110
250 03	25	22	1,8	110
250 04	32	28	2,0	150
250 05	45	40	2,3	180



PONTA BURETA

BURETTE TIP

Ref.	Cap. ml	Vidro Glass
90 600 11	25	Boro 3.3
90 600 13	25	Boro 4.9
90 600 10	5 / 10	Boro 3.3
90 600 12	5 / 10	Boro 4.9
90 600 03	50	Boro 3.3



CANOS PARA BURETAS

BURETTE TUBES

Cap. ml	Grad.	Ref. Normax Boro 3.3		Ref. Lisa / unprinted Boro 3.3		Ref. Normax Boro 4.9		Ref. Lisa / unprinted Boro 4.9
		A	B	A	A	B	A	
1	0,01	27 337	27 437	27 537	27 347	27 447	27 547	
2	0,01	27 330	27 430	27 530	27 340	27 440	27 540	
5	0,02	27 331	27 431	27 531	27 341	27 441	27 541	
10	0,02	27 332	27 432	27 532	27 342	27 442	27 542	
10	0,05	27 333	27 433	27 533	27 343	27 443	24 543	
25	0,05	27 334	27 434	27 534	27 344	27 444	27 544	
25	0,1	27 335	27 435	27 535	27 345	27 445	27 545	
50	0,1	27 336	27 436	27 536	27 346	27 446	27 546	
100	0,2	27 339	27 439	27 539	27 349	27 449	27 549	

Com banda schellbach acrescentar o n°. "1" à ref. *With Schellbach Stripe add the nr. "1" to the ref.*

PIPETAS LISAS

PLAIN PIPETTES

Cap. ml	Ref.
0,1	54 345 01
0,2	54 345 03
0,5	54 345 05
1	54 345 11
2	54 345 16
5	54 345 24
10	54 345 29
20	54 345 32
25	54 345 34



SEMI-ACABADOS SEMI-FINISHED

12

FRASCO PARA REAGENTES

REAGENT BOTTLES

Boca estreita, sem rolha,
Sem esmerilado

Narrow neck, without stopper,
Not grounded

Ref. Branco White	Ref. Amarelo Amber	Cap ml	Diam. mm	Alt. H. mm	IN	Quant. Cx. Bx.
41 161 17	41 166 17	50	44	77	12/21	40
41 161 24	41 166 24	100	54	95	14/23	50
41 161 36	41 166 36	250	73	129	19/26	22
41 161 44	41 166 44	500	89	162	24/29	16
41 161 54	41 166 54	1000	111	200	29/32	8



Boca larga, sem rolha

Wide neck, without stopper

Ref. Branco White	Ref. Amarelo Amber	Cap ml	Diam. mm	Alt. H. mm	IN	Quant. Cx. Bx.
41 181 17	41 186 17	50	42	77	19/26	40
41 181 24	41 186 24	100	52	95	24/29	50
41 181 36	41 186 36	250	70	129	34/35	22
41 181 44	41 186 44	500	86	162	45/40	16
41 181 54	41 186 54	1000	107	200	45/40	8





PRODUTOS ASTM ASTM PRODUCTS

13

VISCOSÍMETROS "CANNON-FENSKE"
PARA LÍQUIDOS OPACOS

VISCOSIMETERS "CANNON-FENSKE"
FOR OPAQUE LIQUIDS

ASTM - D 445, D 446

Ref.	Série Capillary	Constante aprox. cSt / seg. Constant	Viscos. cSt. Range	Quant. Cx. Bx.
710 00	25	0,002	0,5 a 2	1
710 01	50	0,004	0,8 a 4	1
710 02	75	0,008	1,6 a 8	1
710 03	100	0,015	3 a 15	1
710 04	150	0,035	7 a 35	1
710 05	200	0,1	20 a 100	1
710 06	300	0,25	50 a 250	1
710 07	350	0,5	100 a 500	1
710 08	400	1,2	240 a 1200	1
710 09	450	2,5	500 a 2500	1
710 10	500	8	1600 a 8000	1
710 11	600	20	4000 a 20000	1

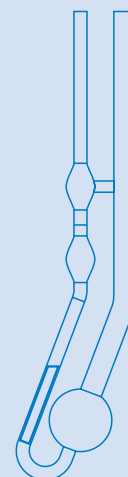


VISCOSÍMETROS "UBBELOHDE"

VISCOSIMETERS "UBBELOHDE"

ASTM - D 445, D 446

Ref.	Série Capillary	Constante aprox. cSt / seg. Constant	Viscos. cSt. Range	Quant. Cx. Bx.
720 00	0	0,001	0,3 a 1	1
720 01	0C	0,003	0,6 a 3	1
720 02	0B	0,005	1 a 5	1
720 03	1	0,01	2 a 10	1
720 04	1C	0,03	6 a 30	1
720 05	1B	0,05	10 a 50	1
720 06	2	0,1	20 a 100	1
720 07	2C	0,3	60 a 300	1
720 08	2B	0,5	100 a 500	1
720 09	3	1,0	200 a 1000	1
720 10	3C	3,0	600 a 3000	1
720 11	3B	5,0	1000 a 5000	1
720 12	4	10	2000 a 10000	1
720 13	4C	30	6000 a 30000	1
720 14	4B	50	10000 a 50000	1
720 15	5	100	20000 a 100000	1



VISCOSÍMETROS "CANNON-FENSKE"
PARA LÍQUIDOS TRANSPARENTES

VISCOSIMETERS "CANON-FENSKE"
FOR TRANSPARENT LIQUIDS

ASTM - D 445, D 446

Ref.	Série Capillary	Constante aprox. cSt / seg. Constant	Viscos. cSt. Range	Quant. Cx. Bx.
700 00	25	0,002	0,5 a 2	1
700 01	50	0,004	0,8 a 4	1
700 02	75	0,008	1,6 a 8	1
700 03	100	0,015	3 a 15	1
700 04	150	0,035	7 a 35	1
700 05	200	0,1	20 a 100	1
700 06	300	0,25	50 a 250	1
700 07	350	0,5	100 a 500	1
700 08	400	1,2	240 a 1200	1
700 09	450	2,5	500 a 2500	1
700 10	500	8	1600 a 8000	1
700 11	600	20	4000 a 20000	1





13

PRODUTOS ASTM ASTM PRODUCTS

TUBOS DE CENTRÍFUGA

CENTRIFUGE TUBES

ASTM D - 96

Ref.	Cap.
	ml
632 00	100

Periforma

Pear shape

Ref.	Cap.
	ml
90 650 82	100

BOLBOS

BULBS

ASTM D - 524

Ref.	Ø	Alt. H.
	mm	mm
625 00	24 - 25	56 - 58

PROVETAS GRADUADAS COM BICO

MEASURING CYLINDERS

ASTM E - 133

Ref.	Cap.
	ml
620 14	25
620 24	100
620 34	200

AMPOLAS RETENÇÃO COM ESMERILADO

TRAPS

ASTM D - 1266

Ref.	Ø	IN
	mm	
636 00	65	24 - 29

QUEIMADORES

BURNERS

ASTM D - 1266

Ref.	Cap.	IN
	ml	
637 00	25	14 - 10



PRODUTOS ASTM ASTM PRODUCTS

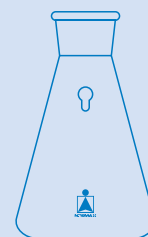
13

BALÕES ERLLENMEYER COM ESMERILADO

ERLENMEYER FLASKS STANDARD WALL

ASTM D - 1266

Ref.	Cap. ml	IN
638 00	25	14 / 10

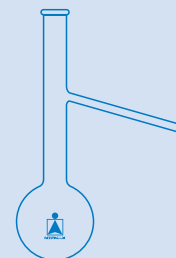


BALÕES ENGLER COM ESMERILADO

DISTILLING FLASKS ENGLER

ASTM E - 133

Ref.	Cap. ml	Ø Int. do colo/neck mm	Ø Ext. do balão/flask mm	Alt. H. mm	Tubo lateral Ø ext./hose mm	Comp. L. mm
610 01	100	16	65	215	6	100
610 02	125	17	68	215	7	100
610 03	200	21	73	179	7	127
610 04	250	15	86	215	6	100



TUBOS PARA PONTO DE CONGELAÇÃO

CONGELATION POINT TUBES

ASTM D - 97

Ref.	Alt. H. mm	Ø mm
647 00	115 - 125	30 - 33,5

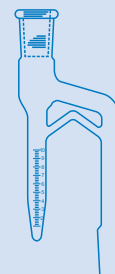


TUBOS DE RECEPÇÃO

RECEIVER TUBES

ASTM E - 123

Ref.	Cap. ml	IN Fêmea Female	IN Macho Male
641 01	10	24 / 29	24 / 29
641 02	25	24 / 29	24 / 29

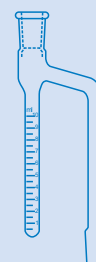


TUBOS DE RECEPÇÃO

RECEIVER TUBES

ASTM E - 123

Ref.	Cap. ml	IN Fêmea Female	IN Macho Male
643 01	5	24 / 29	24 / 29
643 02	10	24 / 29	24 / 29





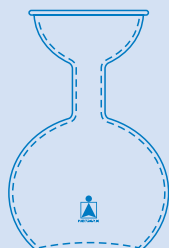
73

PRODUTOS ASTM ASTM PRODUCTS

BALÕES PARA VISCOSÍMETRO "SAYBOLT"

FLASKS VISCOSITY "SAYBOLT"

ASTM D - 88

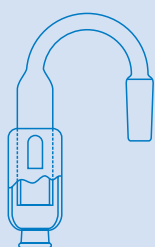


Ref.	Cap.
	ml
645 00	60

CHAMINÉS

CHIMNEYS

ASTM D - 1266

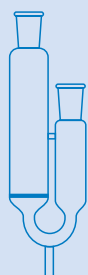


Ref.	IN	IN
	Fêmea Female	Macho Male
634 00	14 / 23	24 / 29

ABSORVEDORES

ABSORBERS

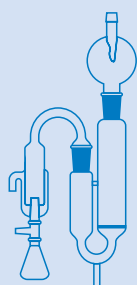
ASTM D - 1266



Ref.	IN
	Fêmea Female
635 00	24 / 29

APARELHO DETERMINAÇÃO DE ENXOFRE NOS DERIVADOS DO PETRÓLEO

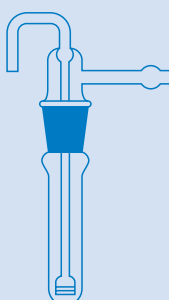
COMBUSTION AND ABSORPTION APPARATUS



Ref.	Características / <i>Characteristics</i>
534	Completo / <i>Complete</i>
635 00	Absorvedores (ASTM - D 1266) / <i>Absorber</i>
636 00	Ampolas de retenção com IN (ASTM - D 1266) / <i>Trap</i>
638 00	Balão Erlenmeyer (ASTM - D 1266) / <i>Erlenmeyer flask</i>
634 00	Chaminés (ASTM - D 1266) / <i>Chimney</i>
637 00	Queimadores (ASTM - D 1266) / <i>Burner</i>

APARELHO FILTRAÇÃO DO ÓLEO

FILTER OIL STICK



ASTM E - 721

Ref.	Características / <i>Characteristics</i>	IN macho	IN Fêmea
		Male	Female
535	Completo / <i>Complete</i>		
535 00	Tubo com IN / <i>Tube</i>	-	24 / 29
535 01	Cabeça placa porosa I e IN / <i>Porous plate</i>	24 / 29	