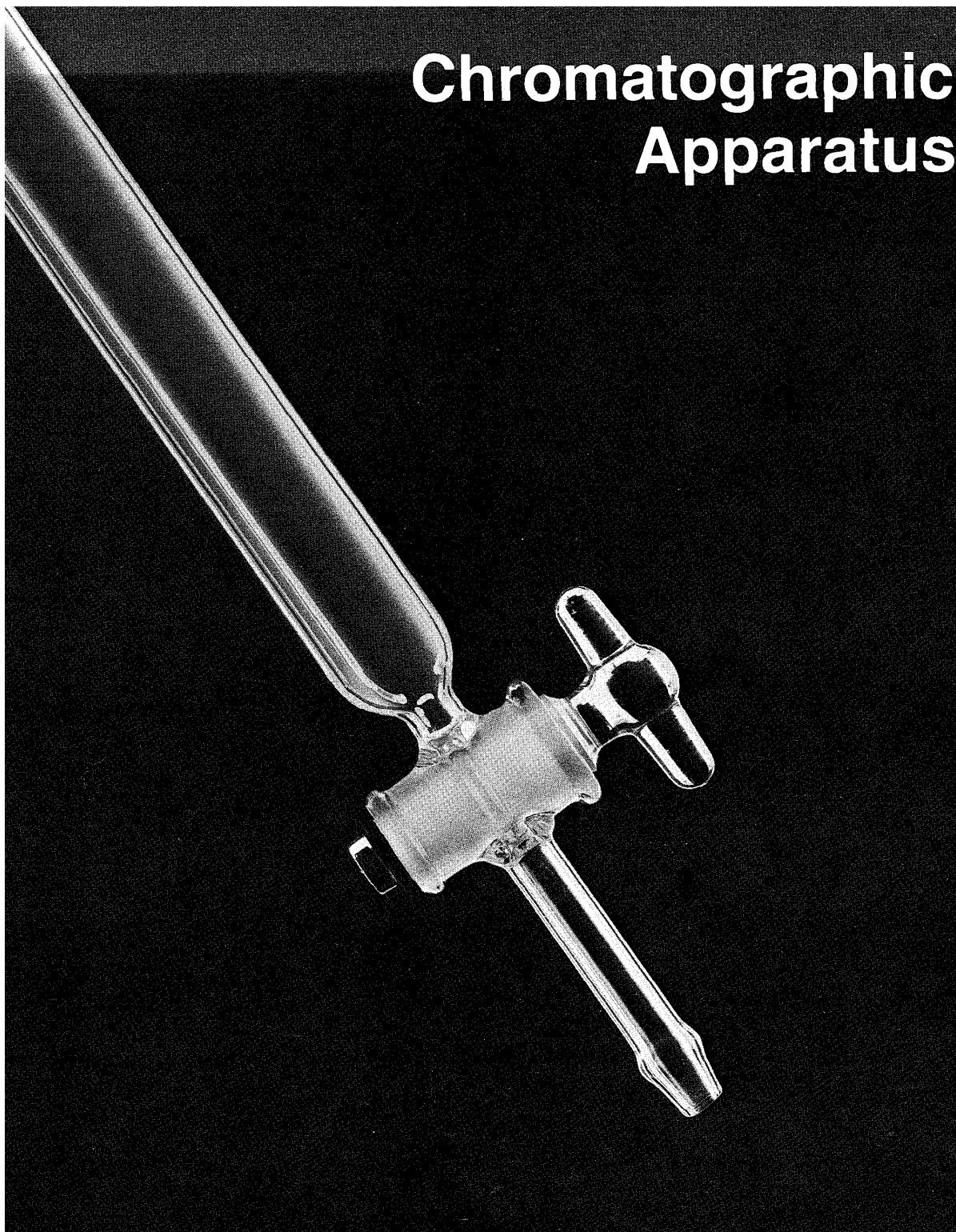




Chromatographic Apparatus





5000 CHROMATOGRAPHIC COLUMN, PLAIN

Plain chromatographic column, with 2 mm. bore capillary tip, 50 ml. reservoir and top tooled for a No. 2 rubber stopper. Approximate overall length, 300 mm. Column I.D. is 11.5 ml. x 160 mm. length.

5010 CHROMATOGRAPHIC COLUMN, PLAIN, STOPCOCK

Plain chromatographic column, with 2 mm. bore stopcock at bottom and 200 ml. reservoir at top. Approximate column length, 250 mm.; I.D. 10.5 mm.

5011 CHROMATOGRAPHIC COLUMN, PLAIN

Similar to 5010, except with a sealed-in fritted disc and Teflon stopcock. Refer to chart below.

5020 CHROMATOGRAPHIC COLUMN, PLAIN, TEFLON

Similar to 5010, without reservoir.

Column Dimensions mm.				Column Dimensions mm.			
Size	O.D.	I.D.	Length	Size	O.D.	I.D.	Length
A-1	13	10.5	150	E-1	32	29.5	350
A-2	13	10.5	200	E-2	32	29.5	400
A-3	13	10.5	250	E-3	32	29.5	500
B-1	17	14.5	200	E-4	32	29.5	600
B-2	17	14.5	250	E-5	32	29.5	700
B-3	17	14.5	500	F-1	38	34	500
B-4	17	14.5	700	F-2	38	34	600
C-1	22	19	250	F-3	38	34	700
C-2	22	19	300	G-1	45	41	500
C-3	22	19	500	G-2	45	41	600
C-4	22	19	700	G-3	45	41	700
D-1	25	22	300	H-1	48	44	500
D-2	25	22	350	H-2	48	44	600
D-3	25	22	500	H-3	48	44	700
D-4	25	22	700	J-1	54	49	600
				J-2	54	49	700

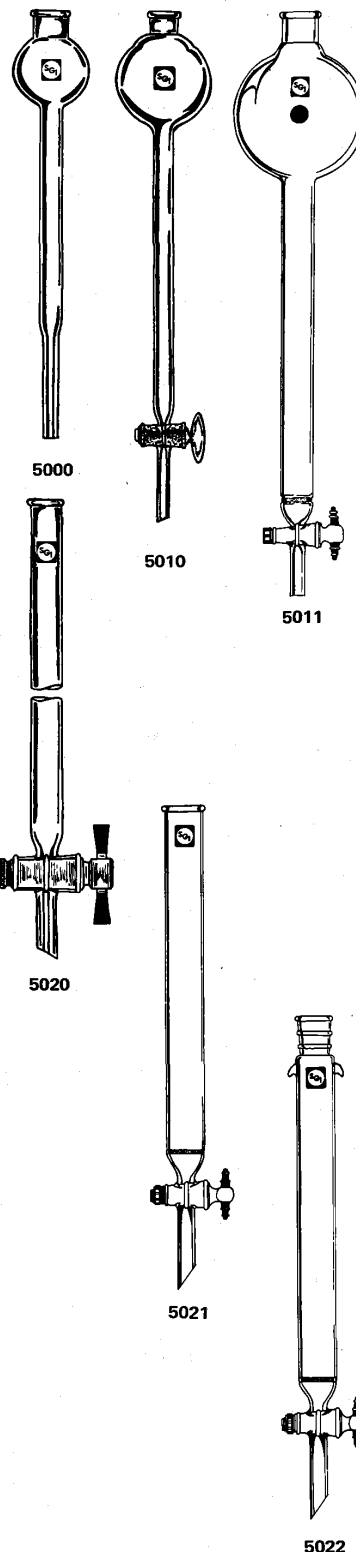
5021 CHROMATOGRAPHIC COLUMN, PLAIN

Plain chromatographic column, with sealed-in coarse fritted disc and Teflon stopcock.

Size	Column Length, mm.
A	720
B	830
C	900

5022 CHROMATOGRAPHIC COLUMN, PLAIN JOINT

Same as 5021, except with 24/40 at top and with spring hooks. Refer to 5021 chart.





5030



5040



5050

5030 CHROMATOGRAPHIC COLUMN, PLAIN $\frac{1}{8}$ JOINT

Plain chromatographic column, with sealed-in-coarse porosity fritted disc. Adapter joint $\frac{1}{8}$ 18/9; column diameter, 25 mm. I.D. Ref.: AOAC, p. 685, August 1949. Uses size 18 clamp. Supplied complete with joint clamp.

Size	Column Length, m.m.
A	720
B	830
C	900

5040 CHROMATOGRAPHIC COLUMN, PLAIN

Same as 5030, except with $\frac{1}{8}$ 2 mm. bore stopcock on adapter.

Size	Column Length, m.m.
A	720
B	830
C	900

5050 CHROMATOGRAPHIC COLUMN, PLAIN

Plain chromatographic column. Inner $\frac{1}{8}$ joint with sealed-in fritted coarse disc on adapter tube.

Size	A	B	C	D	E	F	G
$\frac{1}{8}$ Joint Size	10/18	19/22	29/26	34/28	45/35	55/35	71/40
Column Length, mm.	130	200	215	230	270	300	330
Column I.D., mm.	11	19	31	38	48	58	80

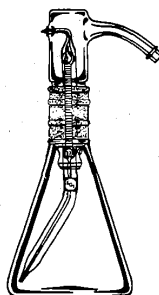
5060 CHROMATOGRAPHIC COLUMN, GRADUATED

Same as 5050, except graduated every 5 mm.

Size	A	B	C	D	E	F	G
$\frac{1}{8}$ Joint Size	10/18	19/22	29/26	34/28	45/35	55/35	71/40
Column Length, mm.	130	200	215	230	270	300	330
Column I.D., mm	11	19	31	38	48	58	80



5060



5070

5070 CHROMATOGRAPHIC SPRAY

Ideal for spraying reagents in paper chromatography work. The spray produced is fine, even and free of large droplets. Joint size $\frac{1}{8}$ 24/40.

Size, ml.	125	250
Code	A	B

5080 CHROMATOGRAPHIC SAMPLE TUBE

Long tapered tip makes this tube especially suited for storing samples for gas chromatography. A microliter syringe needle can reach the tube bottom and retrieve the sample. Graduated from 0 to 0.3 ml. in 0.01 ml. divisions; 0.3 to 2.0 ml. in 0.10 ml. divisions. Stopper $\frac{1}{8}$ 10/18.



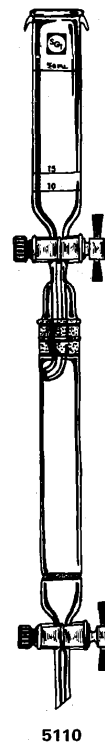
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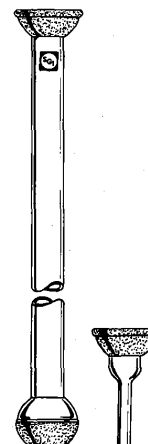
5110 COLUMN-DISPENSER, NEUTRAL OIL AND LOSS, TEFLON

Used in neutral oil determinations, made in accordance with A.O.C.S. Method CA 9F-57, Revised 1963. Dispenser is graduated at 10, 15 and 50 ml. Approximate column length, above sealed-in coarse porosity fritted disc., is 125 mm. Inside diameter of column is 19 mm and delivery stem is 2 mm bore capillary. Column and Dispenser are connected with a $\frac{1}{8}$ 19/22 ground joint.

Part	Item	Stopcock Size
A	Dispensing Buret	2
B	Column	2
C	Complete	



5110



5111

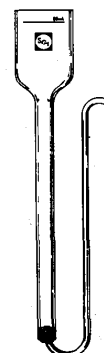
5111 CHROMATOGRAPHIC COLUMN, MOLECULAR SIEVE

For use in the determination of cationic exchange materials 25 mm. I.D. by 60" long $\frac{1}{8}$ 35/25.

5113 CHROMATOGRAPHIC COLUMN, ION EXCHANGE

For determination of Boron in water by the Circumin Method. Column is 1.3 cm in diameter x 50 cm long. Furnished complete except for column packing. Ref.: Test Method 107A and 156A, Standard Methods for the Examination of Water and Waste Waters, 13th Ed., 1971. A.P.H.A. A.W.W.A. W.P.C.F.

Description	Part
Column, 1.3 cm x 50 cm	A
Overflow Line	B
Stopper	C
Complete	D



5114

5114 CHROMATOGRAPHIC COLUMN, REDUCTION TYPE

Used to reduce Nitrate almost quantitatively to Nitrite by amalgamated Cadmium fillings. Furnished complete except for column packing.

Ref.: Test Method 213B, Standard Methods for the Examination of Water and Waste Waters, 13th Ed.; 1971 A.P.H.A. A.W.W.A. W.P.C.F.

Description	Part
Column	A
Overflow Line	B
Complete	C



5113

5115 CHROMATOGRAPHIC COLUMN, ABSORPTION

Used in the determination of hydrocarbons and fatty matter content of grease in water and waste water by Activated Alumina absorption. Supplied complete less absorbant. Column has 10 mm I.D., is 30 cm long with 1 mm I.D. tip.

Ref.: Test Method 209D, Standard Methods for the Examination of Water and Waste Waters, 13th Ed., 1971. A.P.H.A. A.W.W.A. W.P.C.F.

5116 CHROMATOGRAPHIC COLUMN, CARBON ABSORPTION

Carbon Absorption Column, 50 mm X 600 mm, complete with 30 mesh stainless steel support screens, less activated carbon packing, for determination of surfactants (anionic) in water and waste water.

Ref.: Test Method 159B, Standard Methods for the Examination of Water and Waste Waters, 13th Ed., 1971. A.P.H.A. • A.W.W.A. • W.P.C.F.



5115



5116