

Jaytec Glass Limited

Volumetric and Laboratory Glass



Catalogue and Price List
2010

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Catalogue and Price List

Effective from the 5th of January 2010

Jaytec Glass Limited

Volumetric and Laboratory Glassware Manufacturers

Jaytec House, Burgess Lane,
Ivyhouse Lane Industrial Estate,
Hastings, East Sussex TN35 4NR
United Kingdom

Tel: +44 (0)1424 424181

Fax: +44 (0)1424 721224

Email: enquiries@jaytecglass.co.uk

www.jaytecglass.co.uk

An ISO 9001 Approved Company

HOW TO FIND US

From the M25 take the A21 To Hastings. When approaching the outskirts of Hastings there is a sign saying "Welcome to Hastings" and the A21 goes under a road bridge. Turn first right under bridge signed to the Hospital. Turn right at the top of the sliproad and follow signs to the Conquest Hospital. Go straight over the roundabout with the hospital on the right and continue along The Ridge until you see a big sign for the Ivyhouse Lane Industrial estate. Turn left at this sign down Ivyhouse Lane. Burgess Road is the second road on the right, and Jaytec House is the first on the left set among trees.

Introduction

Jaytec Glass Limited

As a manufacturer of scientific glassware, Jaytec Glass Limited produces both general volumetric equipment and more specialist items for the dairy, pharmaceutical, oil & gas, sugar and educational markets. We are able to turn out new products on a very short timescale, and have a wide experience in producing custom calibrated items to order.

Formerly F. R. Jones Ltd., the company was founded by husband and wife Freddie and Doris Jones in 1947. The company was bought by James Bartleet in 2004, and continues manufacturing quality glassware on its current site in Hastings, East Sussex.

Jaytec Glass makes a very wide range of all-glass items and calibrates them to any current standard. We can also issue certificates of accuracy for any calibrated item. Working from a sketch, schematic diagram or full specification we use our wide experience to turn an idea into a finished product.

Jaytec Glass specialises in:

- Manufacturing standard items in non-standard volumes
- Accelerated service for urgent orders. Mission critical glass items sometimes need to be replaced on very short lead times, and we are happy to undertake this work.
- Calibration of existing items — We are happy to calibrate existing glass items to any current standard. Please call us for details.
- Acid Etching — a technique used for marking items without annealing afterwards. This is useful for accurate work on larger items whose volume changes on heating, printing on awkwardly placed surfaces or obtaining fine lines for more accurate calibration.

MEASURING CYLINDERS

Measuring cylinders are used for measuring volumes of mobile liquids. For viscous liquids or semi-solids a conical measure is easier to use. There are a variety of types and styles of measuring cylinder.

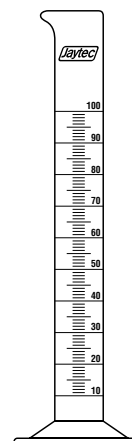
For basic measurement of liquids in qualitative work a Class B cylinder is sufficient. For more accurate measurement of liquid a Class A cylinder is appropriate. These are calibrated to half the tolerance of Class B cylinders and each has a unique serial number for traceability. A certificate of accuracy traceable to national standards can be provided if required. Class A cylinders are used in analytical labs, quantitative labs, and other controlled environments. They are not suitable for work which requires accuracy of less than 1%. For this a bulb pipette (0.2%) or a gravimetric method (0.0001%+) should be used.

Stoppered cylinders are used for making up solutions where it is important to homogenize the liquid by shaking. They are also useful for measuring volatile solvents where significant evaporation might occur if the liquid is exposed to air.

Class B Spout Cylinders

Manufactured in accordance with BS EN ISO 4788:2005 out of borosilicate or soda glass.

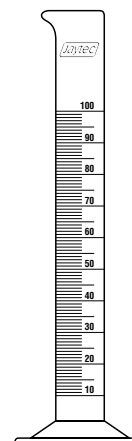
Product Code	Capacity ml	Graduations ml	Tolerance \pm ml	Price Each
WJ.100	5	0.1	0.1	£ 3.49
CMS01D	10	0.1	0.1	3.49
WJ.101	10	0.2	0.2	3.49
WJ.102	25	0.5	0.5	3.56
WJ.103	50	1.0	1.0	3.64
WJ.104	100	1.0	1.0	4.23
WJ.106	250	2.0	2.0	7.75
WJ.107	500	5.0	5.0	12.17
WJ.108	1000	10.0	10.0	20.30
WJ.109	2000	20.0	20.0	36.16



Class A Spout Cylinders

Manufactured in accordance with BS EN ISO 4788:2005 out of borosilicate or soda glass.

Product Code	Capacity ml	Graduations ml	Tolerance \pm ml	Price Each
BJ.141	5	0.1	0.05	£ 7.26
BJ.142	10	0.2	0.1	7.26
BJ.143	25	0.5	0.2	7.26
BJ.144	50	1.0	0.4	8.01
BJ.145	100	1.0	0.5	9.41
BJ.146	250	2.0	1.0	14.02
BJ.147	500	5.0	2.0	19.23
BJ.148	1000	10.0	4.0	24.59
BJ.149	2000	20.0	8.0	46.26
CT.900	Works Certificate of Accuracy			12.95



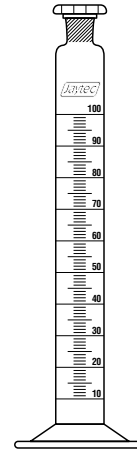
Government stamped Cylinder Measures now available on Page 30

General Volumetric Glassware

Class B Stopped Cylinders

Manufactured in accordance with BS EN ISO 4788:2005 out of borosilicate or soda glass.

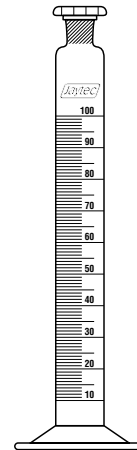
Product Code	Capacity ml	Graduations ml	Tolerance \pm ml	Neck Size	Price Each
WJ.118	5	0.1	0.1	10/13	£ 5.35
WJ.119	10	0.2	0.2	10/13	5.35
WJ.120	25	0.5	0.5	14/15	5.64
WJ.121	50	1.0	1.0	19/17	6.78
WJ.122	100	1.0	1.0	19/17	7.62
WJ.123	250	2.0	2.0	24/20	14.93
WJ.124	500	5.0	5.0	24/20	27.93
WJ.125	1000	10.0	10.0	29/32	38.05
WJ.126	2000	20.0	20.0	34/35	61.31



Class A Stopped Cylinders

Manufactured in accordance with BS EN ISO 4788:2005 out of borosilicate or soda glass.

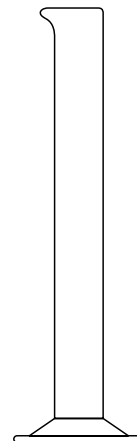
Product Code	Capacity ml	Graduations ml	Tolerance \pm ml	Neck Size	Price Each
BJ.150	5	0.1	0.05	10/13	£ 8.12
BJ.151	10	0.2	0.1	10/13	8.12
BJ.152	25	0.5	0.25	14/15	8.12
BJ.153	50	1.0	0.5	19/17	8.86
BJ.154	100	1.0	0.5	19/17	11.02
BJ.155	250	2.0	1.0	24/20	18.17
BJ.156	500	5.0	2.5	24/20	33.33
BJ.157	1000	10.0	5.0	29/32	43.45
BJ.158	2000	20.0	10.0	34/35	71.03



HYDROMETER JARS

Manufactured in borosilicate glass

Product Code	Dimensions in mm	Dimensions in inches	Price Each
WJ.848	150 x 38	6 x 1.5	£ 4.46
WJ.849	200 x 38	8 x 1.5	4.62
WJ.850	250 x 38	10 x 1.5	4.81
WJ.851	200 x 50	8 x 2	9.61
WJ.852	250 x 50	10 x 2	9.99
WJ.853	300 x 50	12 x 2	10.66
WJ.854	395 x 50	15.5 x 2	11.40
WJ.855	330 x 63	13 x 2.5	18.28
WJ.856	380 x 63	15 x 2.5	19.83
JHK430	430 x 63	17 x 2.5	20.94
JHK320	320 x 80	12.5 x 3	22.74



VOLUMETRIC FLASKS

Volumetric Flasks are used for making up solutions to a fixed volume. There are a variety of types and styles of volumetric flasks. Volumetric flask accuracy is listed in the tables below. Custom size volumetric flasks are available on request.

Class B Volumetric Flasks

Manufactured in accordance with BS EN ISO 1042:2000 out of borosilicate glass with polypropylene stopper.

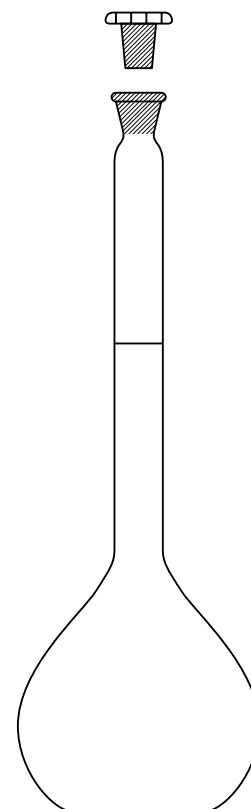
Product Code	Capacity ml	Tolerance \pm ml	Neck Size	Price Each
WJ.159	5	0.05	10/13	£ 4.16
WJ.160	10	0.05	10/13	4.16
WJ.161	20	0.08	10/13	4.90
WJ.162	25	0.08	10/13	4.90
WJ.163	50	0.12	10/13	5.11
WJ.164	100	0.20	12/14	6.92
WJ.165	200	0.30	14/15	9.96
WJ.166	250	0.30	14/15	9.96
WJ.169	500	0.50	19/17	12.98
WJ.170	1000	0.80	24/20	17.40
WJ.171	2000	1.20	24/20	32.05
WJ.172	5000	2.40	34/35	96.11

Class A Volumetric Flasks

Manufactured in accordance with BS EN ISO 1042:2000 out of borosilicate glass with polypropylene stopper.

Product Code	Capacity ml	Tolerance \pm ml	Neck Size	Price Each
JV.185	1	0.025	10/13	£ 4.57
JV.186	2	0.025	10/13	4.57
JV.187	5	0.025	10/13	4.57
JV.188	10	0.025	10/13	4.57
JV.189	20	0.04	10/13	5.26
JV.190	25	0.04	10/13	5.26
JV.191	50	0.06	10/13	5.53
JV.192	100	0.10	12/14	7.47
JV.193	200	0.15	14/15	10.58
JV.194	250	0.15	14/15	10.58
JV.195	500	0.25	19/17	14.58
JV.196	1000	0.40	24/20	19.35
JV.197	2000	0.60	24/20	34.54
JV.198	5000	1.20	34/35	108.13
CT.902	Works Certificate of Accuracy			10.27

Also available: Plain Brim version with the suffix PB. Prices on request

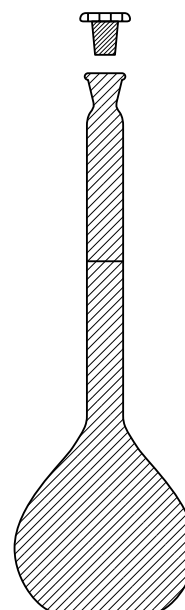


General Volumetric Glassware

Class A Volumetric Flasks, Amberised

Manufactured in accordance with BS EN ISO 1042:2000 out of borosilicate glass with polypropylene stopper.

Product Code	Capacity ml	Tolerance \pm ml	Neck Size	Price Each
JS.250	5	0.025	10/13	£ 11.28
JS.251	10	0.025	10/13	11.28
JS.252	20	0.04	10/13	10.84
JS.253	25	0.04	10/13	10.84
JS.254	50	0.06	10/13	11.74
JS.256	100	0.10	12/14	13.46
JS.257	200	0.15	14/15	21.11
JS.258	250	0.15	14/15	21.11
JS.259	500	0.25	19/17	25.09
JS.260	1000	0.40	24/20	34.32
JS.261	2000	0.60	24/20	65.47
JS.262	5000	1.20	34/35	168.36
CT.902	Works Certificate of Accuracy			10.27



BURETTES

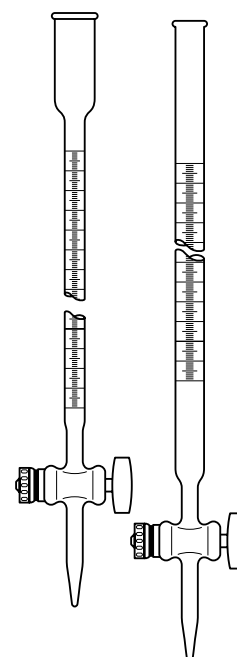
Burettes are used for titrations: a known quantity of substrate is measured into a flask, and the titrant is added slowly from the burette until the end point is reached and the volume is recorded. An indicator is often used to make the end point visible. There are many different types of titration, but they are usually either acid-base or redox reactions.

Burettes, Class B One Way, Glass Key Stopcocks

Manufactured in accordance with BS EN ISO 385: 2005. Borosilicate Glass, Interchangeable Glass Key Stopcocks, Conforms to BS 1751.

Product Code	Capacity ml	Graduations ml	Tolerance \pm ml	Price Each
WJ.252	1	0.01	0.02	£ 19.82
WJ.253	2	0.02	0.02	19.82
WJ.254	5	0.02	0.02	19.82
WJ.255	10	0.02	0.05	20.53
WJ.256	10	0.10	0.05	19.82
WJ.257	25	0.05	0.05	20.60
WJ.258	25	0.10	0.10	19.82
†WJ.259	30	0.10	0.10	19.82
WJ.260	50	0.10	0.10	19.82
WJ.261	100	0.20	0.20	20.82

† Denotes this size is not listed in the British Standard



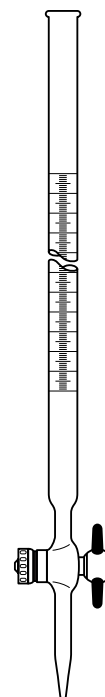
General Volumetric Glassware

Burettes, Class B One Way, PTFE Key Stopcocks

Manufactured in accordance with BS EN ISO 385: 2005. Precision Bore Borosilicate Glass, Interchangeable PTFE Key Stopcocks.

Product Code	Capacity ml	Graduations ml	Tolerance \pm ml	Price Each
WJ.262	10	0.02	0.05	£ 26.23
WJ.263	10	0.10	0.05	26.23
WJ.264	25	0.05	0.05	26.23
WJ.265	25	0.10	0.10	25.37
WJ.266	50	0.10	0.10	25.37
WJ.267	100	0.20	0.20	26.37

† Denotes this size is not listed in the British Standard



Burettes, Class B Two Way, Glass Key Stopcocks

Manufactured in accordance with BS EN ISO 385: 2005. Precision Bore Borosilicate Glass, Interchangeable Glass Key Stopcocks, Conforms to BS 1751.

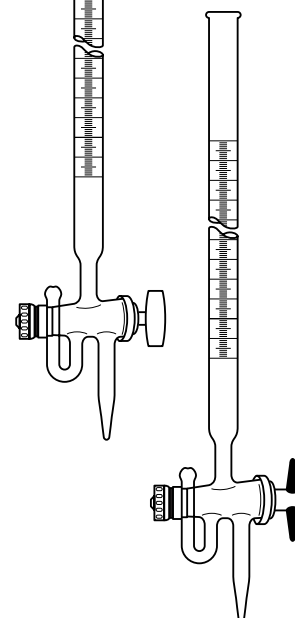
Product Code	Capacity ml	Graduations ml	Tolerance \pm ml	Price Each
WJ.268	10	0.02	0.05	£ 67.85
WJ.269	10	0.10	0.05	67.85
WJ.270	25	0.05	0.05	67.85
WJ.271	25	0.10	0.10	67.85
WJ.272	50	0.10	0.10	67.85
WJ.273	100	0.20	0.20	69.45



Burettes, Class B Two Way, PTFE Key Stopcocks

Manufactured in accordance with BS EN ISO 385: 2005. Precision Bore Borosilicate Glass, Interchangeable PTFE Key Stopcocks.

Product Code	Capacity ml	Graduations ml	Tolerance \pm ml	Price Each
WJ.274	10	0.02	0.05	£ 69.85
WJ.275	10	0.10	0.05	69.85
WJ.276	25	0.05	0.05	69.85
WJ.277	25	0.10	0.10	69.85
WJ.278	50	0.10	0.10	69.85
WJ.279	100	0.20	0.20	71.85



General Volumetric Glassware

Burettes, Class B Pinch Clip Type

Manufactured in accordance with BS EN ISO 385: 2005. Precision Bore Borosilicate Glass. These Burettes come complete with a Samco Pinch Clip and Jet. A Mohrs Clip can be supplied as an alternative.

Product Code	Capacity ml	Graduations ml	Tolerance \pm ml	Price Each
WJ.280	10	0.10	0.05	£ 11.54
WJ.281	25	0.10	0.10	11.54
WJ.282	50	0.10	0.10	11.54
WJ.283	100	0.20	0.20	12.64

Spares

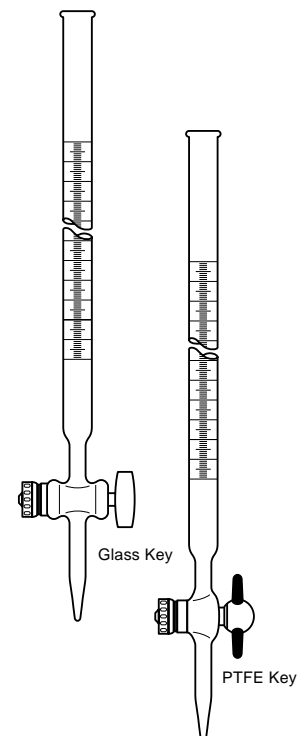
Product Code	Description	Price Each
AN.288	Samco Clip with Jet and Rubber	£ 3.07
AN.289	Mohrs Clip with Jet and Rubber	4.65



Burettes, Class A One Way, Glass Key Stopcocks

Manufactured in accordance with BS EN ISO 385: 2005. Borosilicate Glass, Interchangeable Glass Key Stopcocks, Conforms to BS 1751.

Product Code	Capacity ml	Graduations ml	Tolerance \pm ml	Price Each
BJ.318	10	0.02	0.02	£ 40.23
BJ.319	10	0.05	0.02	26.52
BJ.320	25	0.05	0.03	40.78
BJ.321	25	0.10	0.05	31.99
BJ.323	50	0.10	0.05	34.38
BJ.324	100	0.20	0.10	43.11
CT.908	Works Certificate of Accuracy			12.95



Burettes, Class A One Way, PTFE Key Stopcocks

Manufactured in accordance with BS EN ISO 385: 2005. Precision Bore Borosilicate Glass, Interchangeable PTFE Key Stopcocks.

Product Code	Capacity ml	Graduations ml	Tolerance \pm ml	Price Each
BJ.325	10	0.02	0.02	£ 45.87
BJ.326	10	0.10	0.02	32.89
BJ.327	25	0.05	0.03	45.25
BJ.328	25	0.10	0.05	39.51
BJ.329	50	0.10	0.05	39.95
BJ.330	100	0.20	0.10	44.56
CT.908	Works Certificate of Accuracy			12.95

General Volumetric Glassware

Burettes, Class A Two Way, Glass Key Stopcocks

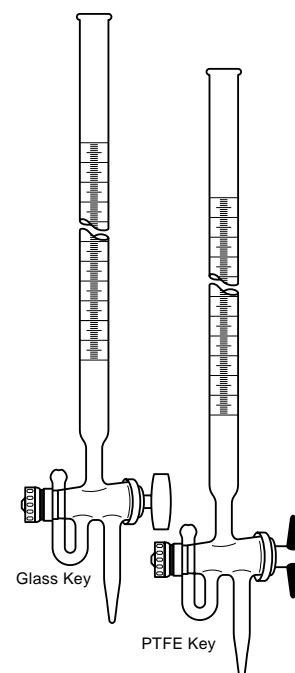
Manufactured in accordance with BS EN ISO 385: 2005. Precision Bore Borosilicate Glass, Interchangeable Glass Key Stopcocks, Conforms to BS 1751.

Product Code	Capacity ml	Graduations ml	Tolerance \pm ml	Price Each
BJ.331	10	0.02	0.02	£ 70.94
BJ.332	25	0.05	0.03	70.94
BJ.333	25	0.10	0.05	70.94
BJ.334	50	0.10	0.05	70.94
BJ.335	100	0.20	0.10	71.94

Burettes, Class A Two Way, PTFE Key Stopcocks

Manufactured in accordance with BS EN ISO 385: 2005. Precision Bore Borosilicate Glass, Interchangeable Glass Key Stopcocks.

Product Code	Capacity ml	Graduations ml	Tolerance \pm ml	Price Each
BJ.336	10	0.02	0.02	£ 85.33
BJ.337	25	0.05	0.03	85.33
BJ.338	25	0.10	0.05	79.57
BJ.339	50	0.10	0.05	80.49
BJ.340	100	0.20	0.10	84.23



Burettes, Class B One Way, All PTFE Key Stopcocks

Manufactured in accordance with BS EN ISO 385: 2005. Precision Bore Borosilicate Glass, Interchangeable All PTFE Stopcocks.

Product Code	Capacity ml	Graduations ml	Tolerance \pm ml	Price Each
WJ.955	10	0.02	0.05	£ 21.07
WJ.956	10	0.10	0.05	17.50
WJ.957	25	0.05	0.05	22.74
WJ.958	25	0.10	0.10	17.50
WJ.959	50	0.10	0.10	17.50
WJ.960	100	0.20	0.20	22.65
WJ.961*	50	0.10	0.10	23.34

* With enamel back

Burettes, Class A One Way, All PTFE Key Stopcocks

Manufactured in accordance with BS EN ISO 385: 2005. Precision Bore Borosilicate Glass, Interchangeable All PTFE Stopcocks.

Product Code	Capacity ml	Graduations ml	Tolerance \pm ml	Price Each
BJ.961	10	0.02	0.02	£ 38.40
BJ.962	10	0.10	0.03	35.40
BJ.963	25	0.05	0.03	35.40
BJ.964	25	0.10	0.05	32.40
BJ.965	50	0.10	0.05	34.80
BJ.966	100	0.20	0.10	42.28
CT.908	Works Certificate of Accuracy			12.95



General Volumetric Glassware

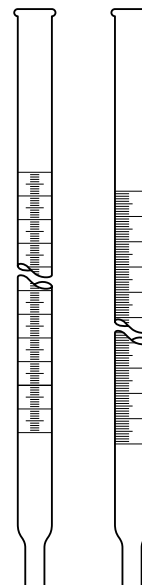
Burettes, Classes A and B, Spares

Class B, Borosilicate Glass, Graduated Stem Only

Product Code	Capacity ml	Graduations ml	Tolerance \pm ml	Price Each
WJ.967	10	0.02	0.05	£ 14.22
WJ.968	10	0.05	0.05	11.09
WJ.969	25	0.05	0.05	14.22
WJ.970	25	0.10	0.10	11.09
WJ.971	50	0.10	0.10	11.09
WJ.972	100	0.20	0.20	13.10

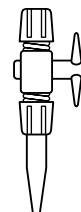
Class A, Borosilicate Glass, Graduated Stem Only

Product Code	Capacity ml	Graduations ml	Tolerance \pm ml	Price Each
BJ.973	10	0.02	0.02	£ 19.59
BJ.974	10	0.05	0.03	19.59
BJ.975	25	0.05	0.03	19.59
BJ.976	25	0.10	0.05	19.59
BJ.977	50	0.10	0.05	19.59
BJ.978	100	0.20	0.10	21.85



Stopcocks and Accessories

Product Code	Description	Price Each
WJ.920	Stopcock complete with Drawn Jet	£ 11.86
WJ.923	Holding Collars, Black, pack of 10	11.78
WJ.924	Key retaining "O" Rings, pack of 10	11.78
WJ.925	Screw Lock Nuts, pack of 10	11.78
LK.926	Black Spanners, pack of 10	13.09
GJ.927	Glass Jets, pack of 5	8.00



Burettes, Dispensing, One Way, Glass Key Stopcocks

Borosilicate Glass, Interchangeable Glass Key Stopcocks, Conforms to BS 1751.

Product Code	Capacity ml	Graduations ml	Tolerance \pm ml	Price Each
WJ.341	250	1.0	0.60	£ 38.63
WJ.342	250	2.0	0.60	37.95
WJ.343	500	2.0	1.00	47.84
WJ.344	500	5.0	1.00	47.84
WJ.345	1000	5.0	5.00	98.70
WJ.346	1000	10.0	5.00	95.84



AUTOMATIC BURETTES

Automatic Burettes are used for multiple titrations or in cases where the titrant should not be handled. Please enquire for further details

Burettes, Daffert Type, Auto Zero

Made in Borosilicate glass with interchangeable PTFE stopcocks.

Product Code	Capacity ml	Graduations ml	Tolerance \pm ml	Price Each
WJ.351	25	0.10	0.10	£ 122.37
WJ.352	50	0.10	0.10	122.37
WJ.353	100	0.20	0.20	125.37

Burette, Daffert Type, Auto Zero, Schellbach

Made in Borosilicate glass with interchangeable PTFE stopcocks.

Product Code	Capacity ml	Graduations ml	Tolerance \pm ml	Price Each
WJ.354	25	0.10	0.10	£ 126.37
WJ.355	50	0.10	0.10	126.37
WJ.356	100	0.20	0.20	129.37

Burettes, Sofnol Type, Auto Zero

Complete Assemblies

Product Code	Capacity ml	Graduations ml	Tolerance \pm ml	Price Each
WJ.366	10	0.10	0.10	£ 32.04
WJ.367	20	0.10	0.10	39.71
WJ.368	25	0.10	0.10	40.81

Burettes, Sofnol Type, Auto Zero

Made in Borosilicate glass - Burette only.

Product Code	Capacity ml	Graduations ml	Tolerance \pm ml	Price Each
WJ.360	10	0.10	0.10	£ 17.34
WJ.361	20	0.10	0.10	25.05
WJ.362	25	0.10	0.10	26.11

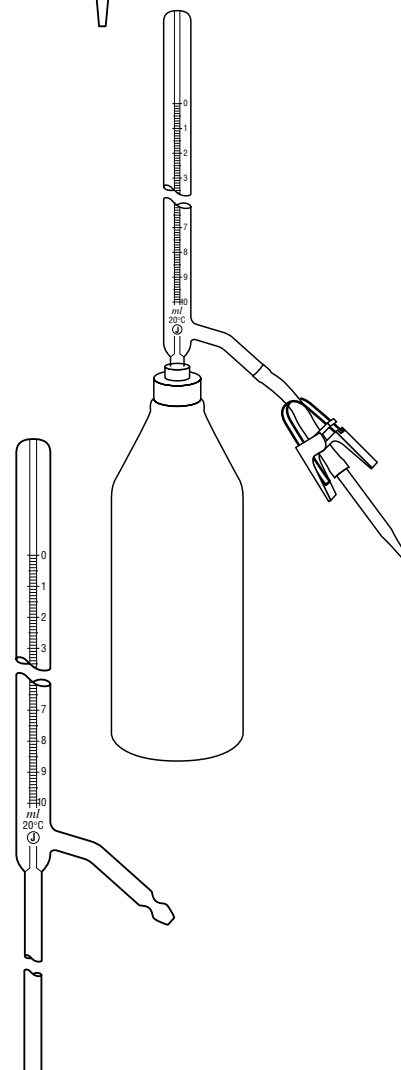
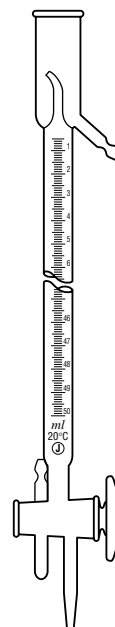
Burettes, Sofnol Type, Auto Zero, Amberised

Made in Borosilicate glass, Amberised, burette only — No Clips

Product Code	Capacity ml	Graduations ml	Tolerance \pm ml	Price Each
WJ.363	10	0.10	0.10	£ 30.09
WJ.364	20	0.10	0.10	41.46
WJ.365	25	0.10	0.10	42.42

Spares

Product Code	Description	Price Each
AN.312	Glass Jet, pack of 5	£ 6.65
AN.288	Samco Clip and Jet Rubber	3.07
AN.366	Plastic Bottle, 500 ml	4.98
AN.367	Plastic Bottle, 1000 ml	7.06



BULB PIPETTES

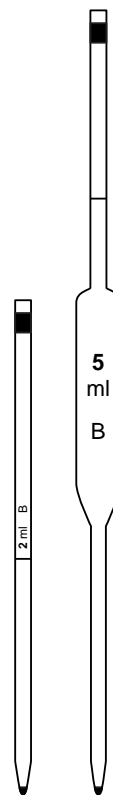
Bulb pipettes are used for dispensing a known volume of aqueous liquid.

Bulb Pipettes, Class B

Manufactured in accordance with BS EN ISO 648:2008. Made in borosilicate or soda glass.

Product Code	Capacity ml	Tolerance \pm ml	Flow Time Seconds	Patch Colour	Price Each
WJ.401	0.5	0.010	4-20	No Patch*	£ 2.49
†WJ.402	1	0.015	5-20	No Patch*	2.22
†WJ.403	2	0.020	5-20	No Patch*	2.49
WJ.404	1	0.015	5-20	Blue	2.49
WJ.405	2	0.020	5-25	Orange	2.49
†WJ.406	3	0.030	5-25	Black	2.59
†WJ.407	4	0.030	5-25	2 Red	2.59
WJ.408	5	0.030	7-30	White	2.59
WJ.409	10	0.040	8-40	Red	2.69
†WJ.410	15	0.050	8-40	Green	3.78
WJ.411	20	0.060	9-40	Yellow	4.06
WJ.412	25	0.060	10-50	Blue	4.18
WJ.413	50	0.100	13-60	Red	5.00
WJ.414	100	0.150	25-60	Yellow	7.64

† Denotes this size is not listed in the British Standard *Straight, no bulb

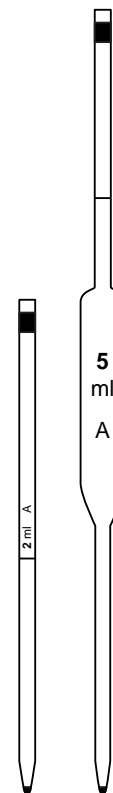


Bulb Pipettes, Class A

Manufactured to BS EN ISO 648:2008. Made in borosilicate or soda glass.

Product Code	Capacity ml	Tolerance \pm ml	Flow Time Seconds	Patch Colour	Price Each
BJ.452	1	0.008	10-20	Blue	£ 6.34
BJ.453	2	0.010	10-25	Orange	6.34
†BJ.433	2.5	0.015	10-25	No Patch	14.08
†BJ.454	3	0.015	10-25	Black	7.06
†BJ.455	4	0.015	10-25	2 Red	7.06
BJ.456	5	0.015	15-30	White	7.06
†BJ.434	6.0	0.020	15-30	No Patch	25.08
†BJ.435	7.0	0.020	15-30	No Patch	25.08
†BJ.436	8.0	0.020	15-30	No Patch	28.32
†BJ.437	9.0	0.020	15-30	No Patch	28.79
BJ.457	10	0.020	15-40	Red	7.53
†BJ.438	11	0.025	15-40	No Patch	29.45
†BJ.439	12	0.025	15-40	No Patch	29.76
†BJ.458	15	0.025	15-40	Green	8.02
†BJ.465	16	0.025	15-40	No Patch	32.90
BJ.459	20	0.030	25-50	Yellow	8.18
BJ.460	25	0.030	25-50	Blue	8.60
†BJ.440	30	0.040	25-50	No Patch	30.74
†BJ.441	35	0.040	25-50	No Patch	32.35
†BJ.442	40	0.040	25-50	No Patch	35.59
†BJ.443	45	0.040	25-50	No Patch	40.85
BJ.461	50	0.050	30-60	Red	9.85
†BJ.444	80	0.060	40-60	No Patch	60.64
BJ.462	100	0.080	40-60	Yellow	11.63
BJ.445	200	0.100	50-70	No Patch	109.98
CT.904	Works Certificate of Accuracy				10.08

† Denotes this size is not listed in the British Standard



MEASURING PIPETTES

Measuring pipettes are used for dispensing a variable volume of aqueous liquid. Pipettes are calibrated with distilled water. They can be used with non-aqueous liquids but they will not be as accurate. The form of the meniscus and the wetted volume remaining in the pipette will be different for other solvents.

Measuring Pipettes, Class B, Type 1

Made to BS EN ISO 835:2007 in Soda Glass. Zero at top — total capacity marked at shoulder.

Product Code	Capacity ml	Graduations ml	Tolerance \pm ml	Flow Time Seconds	Patch Colour	Price Each
WJ.483	1	0.01	0.01	2-10	Yellow	£ 1.97
WJ.484	2	0.02	0.02	2-12	Black	1.97
WJ.485	5	0.05	0.05	5-14	Red	1.97
WJ.486	10	0.10	0.10	5-17	Orange	2.26
WJ.487	25	0.20	0.20	9-21	Green	3.59

Measuring Pipettes, Class B, Type 2

Made to BS EN ISO 835:2007 in Soda Glass. Zero at shoulder — total capacity marked at top.

Product Code	Capacity ml	Graduations ml	Tolerance \pm ml	Flow Time Seconds	Patch Colour	Price Each
WJ.488	1	0.01	0.01	2-10	Yellow	£ 1.97
WJ.489	2	0.02	0.02	2-12	Black	1.97
WJ.490	5	0.05	0.05	5-14	Red	1.97
WJ.491	10	0.10	0.10	5-17	Orange	2.26
WJ.492	25	0.20	0.20	9-21	Green	3.59
WJ.493	25	0.10	0.20	9-21	White	3.97

Measuring Pipettes, Class B, Type 3

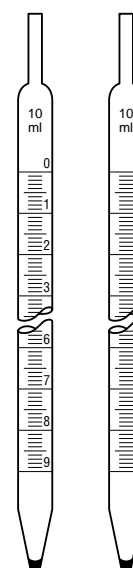
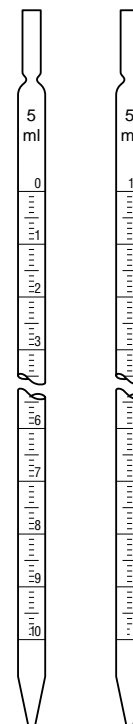
Made to BS EN ISO 835:2007 in Soda Glass. Zero at top — total capacity marked at outlet.

Product Code	Capacity ml	Graduations ml	Tolerance \pm ml	Flow Time Seconds	Patch Colour	Price Each
WJ.494	1	0.01	0.01	2-10	Yellow	£ 1.97
WJ.495	2	0.02	0.02	2-12	Black	1.97
WJ.496	5	0.05	0.05	5-14	Red	1.97
WJ.497	10	0.10	0.10	5-16	Orange	2.26
WJ.498	25	0.20	0.20	9-21	Green	3.59
WJ.499	25	0.10	0.20	9-21	White	3.97

Measuring Pipettes, Class B, Type 3F

Non. BS, made in Soda Glass. Zero at top — total capacity marked at outlet, Fast Flow.

Product Code	Capacity ml	Graduations ml	Tolerance \pm ml	Flow Time Seconds	Patch Colour	Price Each
WJ.500	1	0.01	0.01	2-3	Yellow	£ 2.00
WJ.501	2	0.02	0.02	2-3	Black	2.00
WJ.502	5	0.05	0.05	4-5	Red	2.00
WJ.503	10	0.10	0.10	4-5	Orange	2.28
WJ.504	25	0.20	0.20	7-9	Green	3.68



General Volumetric Glassware

Measuring Pipettes, Class B, Type 4

Non. BS, made in Soda Glass. To blowout.

Product Code	Capacity ml	Graduations ml	Tolerance \pm ml	Flow Time Seconds	Patch Colour	Price Each
WJ.540	1	0.01	0.01	3-5	Yellow	£ 2.02
WJ.541	2	0.02	0.02	4-6	Black	2.02
WJ.542	5	0.05	0.05	5-7	Red	2.02
WJ.543	10	0.10	0.10	6-9	Orange	2.26
WJ.544	25	0.20	0.20	8-11	Green	4.11

Measuring Pipettes, Class A, Type 1

Made to BS EN ISO 835:2007 in Soda Glass. Zero at top — total capacity marked at shoulder.

Product Code	Capacity ml	Graduations ml	Tolerance \pm ml	Flow Time Seconds	Patch Colour	Price Each
BJ.527	1	0.01	0.006	7-10	Yellow	£ 11.47
BJ.528	2	0.02	0.010	8-12	Black	11.47
BJ.529	5	0.05	0.030	10-14	Red	11.47
BJ.530	10	0.10	0.050	13-17	Orange	12.09
BJ.531	25	0.20	0.100	15-21	Green	17.39
CT.906	Works Certificate of Accuracy					14.39

Measuring Pipettes, Class A, Type 2

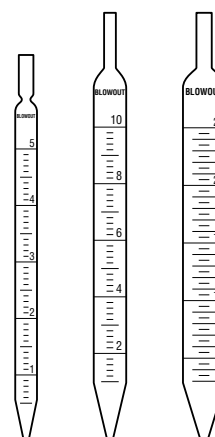
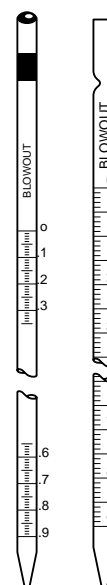
Made to BS EN ISO 835:2007 in Soda Glass. Total Capacity at top - zero at outlet.

Product Code	Capacity ml	Graduations ml	Tolerance \pm ml	Flow Time Seconds	Patch Colour	Price Each
BJ.532	1	0.01	0.006	5-7	Yellow	£ 11.47
BJ.533	2	0.02	0.010	6-9	Black	11.47
BJ.534	5	0.05	0.030	8-11	Red	11.47
BJ.535	10	0.10	0.050	10-13	Orange	12.09
BJ.536	25	0.20	0.100	11-16	Green	17.39
CT.906	Works Certificate of Accuracy					14.39

Measuring Pipettes, Short Form Serological

Non BS, made in soda glass. To Blowout

Product Code	Capacity ml	Graduations ml	Tolerance \pm ml	Flow Time Seconds	Patch Colour	Price Each
PGS001	1	0.01	0.01	3-5	Yellow	£ 2.34
PGS002	2	0.02	0.02	4-7	Black	2.43
PGS005	5	0.05	0.05	5-7	Red	2.75
PGS010	10	0.10	0.10	6-9	Orange	3.46
PGS025	25	0.20	0.20	8-11	Green	4.46



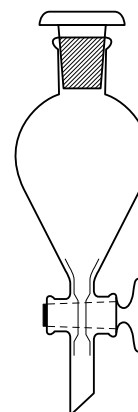
SEPARATING FUNNELS

Separating Funnels are used to separate a mixture of immiscible liquids. The mixture is poured into the funnel and allowed to settle until the two phases are sitting one above the other. The stopper is removed and the lower phase is drawn off first through the stopcock.

Separating Funnels, Pear Shape, Type 2, Glass Key

Manufactured in accordance with BS ISO 4800: 1998. Borosilicate Glass, Glass Key

Product Code	Capacity ml	Stopper Size	Stopcock Bore in mm	Price Each
WJ.558	25	B19	2	£ 19.74
WJ.559	50	B19	2	19.74
WJ.560	100	B19	2	22.39
WJ.561	250	B24	3	25.05
WJ.562	500	B24	3	28.32
WJ.563	1000	B29	3	36.17



Separating Funnels, Pear Shape, Type 2, PTFE Key

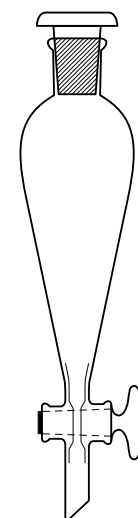
Manufactured in accordance with BS ISO 4800: 1998. Borosilicate Glass, PTFE Key

Product Code	Capacity ml	Stopper Size	Stopcock Bore in mm	Price Each
WJ.564	25	B19	2	£ 22.39
WJ.565	50	B19	2	22.39
WJ.566	100	B19	2	23.71
WJ.567	250	B24	3	29.58
WJ.568	500	B24	3	31.62
WJ.569	1000	B29	3	42.42

Separating Funnels, Conical Shape, Type 1, Glass Key

Manufactured in accordance with BS ISO 4800: 1998. Borosilicate Glass, Glass Key

Product Code	Capacity ml	Stopper Size	Stopcock Bore in mm	Price Each
WJ.570	25	B19	2	£ 19.74
WJ.571	50	B19	2	19.74
WJ.572	100	B19	2	21.32
WJ.573	250	B24	3	27.00
WJ.574	500	B24	3	30.61
WJ.575	1000	B29	3	34.98



Separating Funnels, Conical Shape, Type 1, PTFE Key

Manufactured in accordance with BS ISO 4800: 1998. Borosilicate Glass, PTFE Key

Product Code	Capacity ml	Stopper Size	Stopcock Bore in mm	Price Each
WJ.576	25	B19	2	£ 21.04
WJ.577	50	B19	2	21.04
WJ.578	100	B19	2	23.71
WJ.579	250	B24	3	29.27
WJ.580	500	B24	3	32.88
WJ.581	1000	B29	3	41.09

DROPPING FUNNELS

Dropping Funnel are used to add a liquid to a mixture. They can also be used as a separating funnel if needed.

Dropping Funnel, Type 4, Glass Key

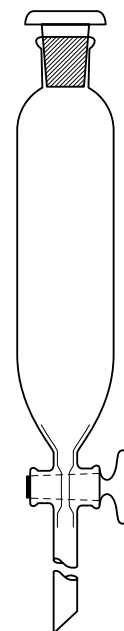
Manufactured in accordance with BS ISO 4800: 1998. Borosilicate Glass, Glass Key

Product Code	Capacity ml	Stopper Size	Stopcock Bore in mm	Price Each
WJ.582	25	B14	2	£ 21.25
WJ.583	50	B19	2	21.25
WJ.584	100	B19	2	23.61
WJ.585	250	B24	3	30.12
WJ.586	500	B24	3	34.20
WJ.587	1000	B29	3	40.36
WJ.588	2000	B29	3	57.46

Dropping Funnel, Type 4, PTFE Key

Manufactured in accordance with BS ISO 4800: 1998. Borosilicate Glass, PTFE Key

Product Code	Capacity ml	Stopper Size	Stopcock Bore in mm	Price Each
WJ.589	50	B19	2	£ 23.30
WJ.590	100	B19	2	27.36
WJ.591	250	B24	3	30.77
WJ.592	500	B24	3	36.31
WJ.593	1000	B29	3	45.50



Dropping Funnel, Type 5, Graduated, Glass Key

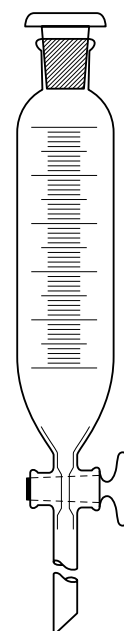
Manufactured in accordance with BS ISO 4800: 1998. Borosilicate Glass, Glass Key

Product Code	Capacity ml	Graduations ml	Stopper Size	Stopcock Bore in mm	Price Each
WJ.595	50	1	B19	2	£ 27.63
WJ.596	100	2	B19	2	29.01
WJ.597	250	5	B24	3	35.59
WJ.598	500	10	B24	3	40.75
WJ.599	1000	20	B29	3	49.40

Dropping Funnel, Type 5, Graduated, PTFE Key

Manufactured in accordance with BS ISO 4800: 1998. Borosilicate Glass, PTFE Key

Product Code	Capacity ml	Graduations ml	Stopper Size	Stopcock Bore in mm	Price Each
WJ.600	25	1	B14	2	£ 27.75
WJ.601	50	1	B19	2	31.07
WJ.602	100	2	B19	2	33.51
WJ.603	250	5	B24	3	39.38
WJ.604	500	10	B24	3	46.48
WJ.605	1000	20	B29	3	58.01

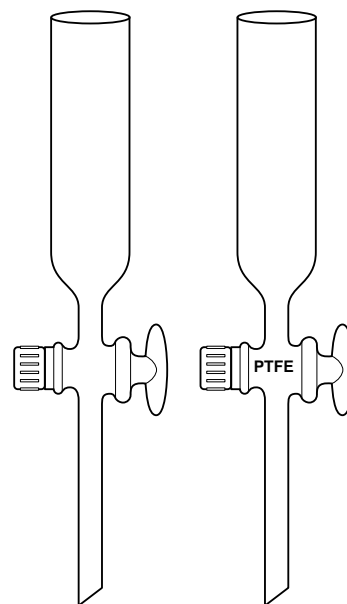


General Volumetric Glassware

Dropping Funnels, Open Top, Glass Key

Borosilicate Glass, Glass Key

Product Code	Capacity ml	Stopcock Bore in mm	Price Each
WJ.798	25	2	£ 15.67
WJ.799	50	2	16.55
WJ.800	100	2	20.20
FTG250	250	3	19.62



Dropping Funnels, Open Top, PTFE Key

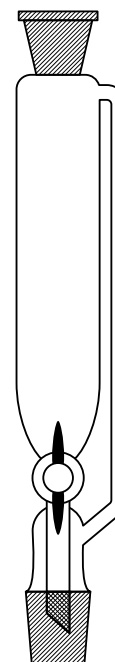
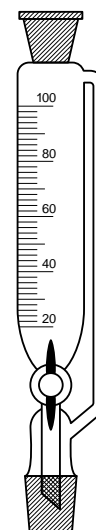
Borosilicate Glass, PTFE Key

Product Code	Capacity ml	Stopcock Bore in mm	Price Each
FTP025	25	2	£ 18.46
FTP050	50	2	18.46
FTP100	100	2	19.16
FTP250	250	3	22.42

Dropping Funnels, Equalising Side Arm, PTFE Key

Borosilicate Glass, PTFE Key

Product Code	Capacity ml	Stopcock Bore in mm	Stopper Size	Price Each
FYR025	25	2	B14	£ 52.48
FYR050	50	2	B19	53.02
FYR100	100	2	B19	54.82
FYR250	250	3	B24	61.85
FYR500	500	3	B24	70.07



Dropping Funnels, Equalising Side Arm, Graduated, PTFE Key

Borosilicate Glass, PTFE Key

Product Code	Capacity ml	Stopcock Bore in mm	Stopper Size	Price Each
FYL025	25	2	B14	£ 62.83
FYL050	50	2	B19	63.51
FYL100	100	2	B19	65.58
FYL250	250	3	B24	75.58
FYL500	500	3	B24	85.94

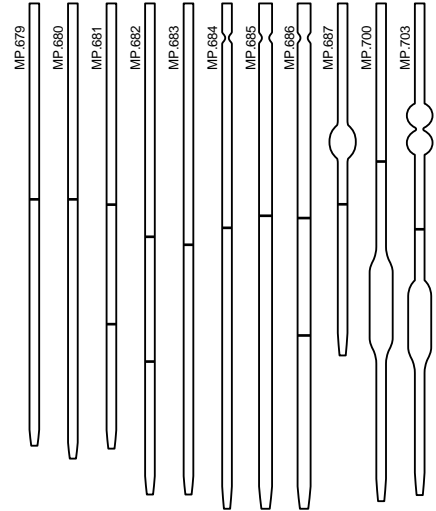
Milk and Dairy Products

Milk and Cream Pipettes

These blowout pipettes have extremely large size jets for use with thick liquids. The last drop left in the jet must be blown-out except where shown. Manufactured out of soda glass.

Product Code	Capacity ml	Description	Tolerance \pm ml	Price Each
MP.678	10.8	One Mark, IS66	0.03	£ 8.65
MP.679	1	One Mark	0.02	2.09
MP.680	1 / 1.1	Two Mark	0.02	2.16
MP.681	0.5 / 1	Two Mark	0.02	2.22
MP.682	1 / 2	Two Mark	0.04	2.65
MP.683	2	One Mark	0.04	2.44
MP.684	5	One Mark	0.08	2.16
MP.685	10	One Mark	0.15	2.65
MP.686	5 / 10	Two Mark	0.15	2.85
MP.687	1	Amyl Alcohol	0.05	4.16
*MP.688	10.94	Milk, BS.696	0.03	7.27
*MP.689	10	Sulphuric Acid, BS.696	0.05	8.10
*MP.700	17.6	One Mark, BS.755	0.05	8.65
MP.703	5 gram	Cream (double bulb), BS.755		6.34

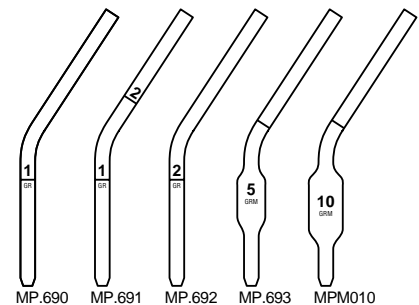
* Not to be blown-out



Mojonnier Pipettes [for Condensed Milk Tests]

Manufactured according to BS.755, Part 1:1937 out of borosilicate glass. [Used to deliver a known volume of dairy product for analysis.]

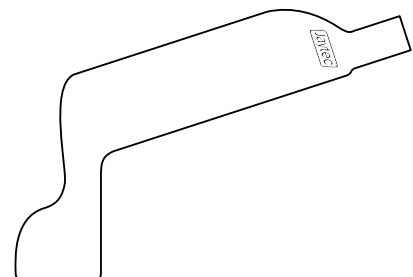
Product Code	Capacity gr	Description	Price Each
MP.690	1	One Mark	£ 3.02
MP.691	1 / 2	Two Mark	3.28
MP.692	2	One Mark	3.09
MP.693	5	One Mark	3.56
MPM010	10	One Mark	2.98



Mojonnier Flasks for Fat Extraction

Manufactured according to BS ISO 3889:2006 out of borosilicate glass. [Used to measure the fat content of dairy products.]

Product Code	Description	Price Each
MP.694	Form A (Flat Base)	£ 25.25

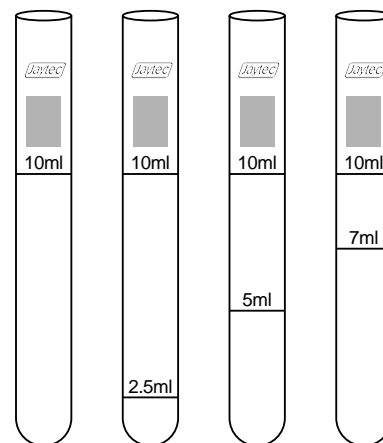


Reductase Tubes

Manufactured out of soda glass. The 10 ml tube can be used for Methylene Blue dye reduction tests. The 2.5 / 10 ml tubes are suitable for antibiotic tests. The 5 / 10 ml tubes can be used for phosphatase and COD tests. The 7 / 10 ml tubes are suitable for ice-cream tests.

Sold only in packs of 100 tubes.

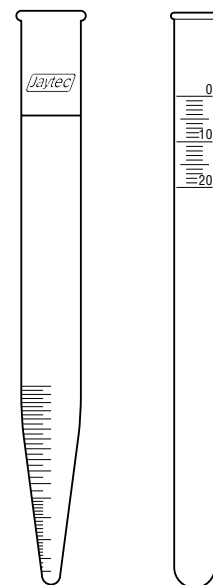
Product Code	Capacity ml	Description	Dimensions	Price per Pack
MP.696	10	One Mark	150m x 16mm	£ 46.18
MP.697	2.5 / 10	Two Mark	150m x 16mm	46.18
MP.698	5 / 10	Two Mark	150m x 16mm	46.18
MP.699	7 / 10	Two Mark	150m x 16mm	46.18



Solubility Index Tubes

Manufactured out of borosilicate glass. Used for Powder Milk Test. Graduated as follows: 0.5ml to 1ml x 0.1ml; 1ml to 3ml x 0.2ml; 3ml to 15ml x 0.5ml; 50 ml: one ring mark

Product Code	Description	Price Each
MP.701	50ml	£ 21.22



MP.701 MP.702

Creamline Tubes

Manufactured out of borosilicate glass. Used for estimating the fat content of cream.

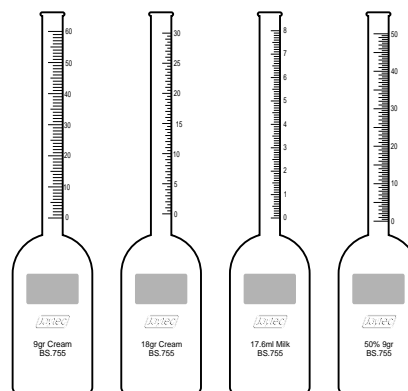
Product Code	Description	Price Each
MP.702	Graduated 0 to 20% x 1%	£ 5.29

Babcock Bottles

Manufactured according to BS.755, Part 1:1937 out of borosilicate glass.

[Used to measure the fat content of dairy products.]

Product Code	Description	Price Each
MP.704	9gr, Cream, 60%	£ 13.99
MP.705	18gr, Cream, 30%	13.99
MP.706	17.6ml, Milk, 8%	13.99
MP.707	9gr, Cream, 50%	13.99
MBB010	Milk, 10%	13.99

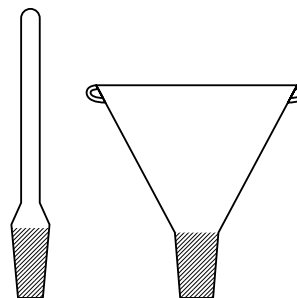


Milk and Dairy Products

Weighing Funnels for Cream or Cheese

Manufactured in accordance with BS.696 out of borosilicate glass. Used for weighing out cream or cheese for Gerber tests, each has a B7 joint on the stopper

Product Code	Description	Price Each
MP.710	Compete, Funnel and Stopper	£ 20.75
MP.711	Funnel only	15.90
MP.712	Stopper only	4.96

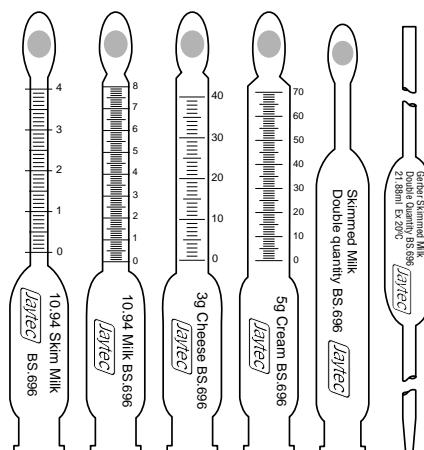


Butyrometers, Gerber Type

Manufactured according to BS ISO 488:2008 out of soda glass. Used to determine the fat content of dairy samples. (Other types of butyrometers can be supplied to customers' own specifications.)

Product Code	Description	Price Each
*MP.890	3gr, Cheese, 40% x 1%	£ 22.12
MP.891	5gr, Cream, 70% x 1%	23.54
*MP.892	Semi-Skim Milk, 4% x 0.1%, 10.94ml	15.22
*MP.893	Milk, 8% x 0.1%, 10.94 ml	15.87
MP.894	Double Qty Skim Milk, 0.5% x 0.02%, 21.88ml	24.57
MP.895	Double Qty Pipette, Skim Milk, 21.88ml	8.01

**Round Stem only; this size is not listed in the British Standard*

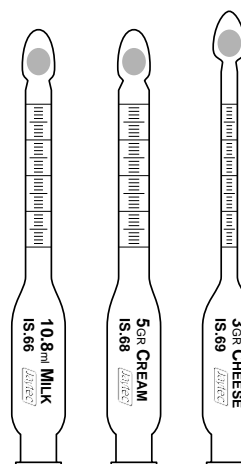


Butyrometers and Pipettes, to Irish Standards

Manufactured according to IS.66, IS.68 and IS.69 out of soda glass. These butyrometers are manufactured to Irish Standards, which differ from BS.696 both in the sample sizes used and the assumed density of fat.

Product Code	Description	Price Each
MP.674	IS.69, 3gr, Cheese, 40% x 1%	£ 21.84
MP.675	IS.68, 5gr, Cream, 70% x 1%	23.71
*MP.676	IS.66, Milk, 7% x 0.1%, 10.8ml	16.19
*MP.677	IS.66, Milk, 8% x 0.1%, 10.8ml	16.19
MP.678	IS.66, Milk Pipette, Tol \pm 0.03ml, 10.8ml	8.65

**Round Stem only; this size is not listed in the Irish Standard*



Distillate Receivers, Type 1, Crow

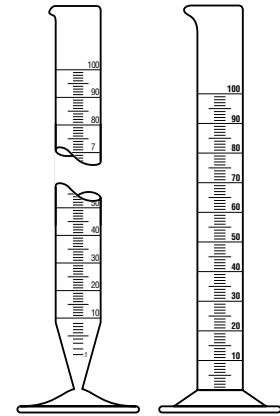
Manufactured according to BS.658 out of soda glass.

Product Code	Capacity ml	Class	Tolerance ± ml	Price Each
WJ.630	100	B	0.8	£ 27.52
BJ.631	100	A	0.4	69.50
WJ.628	50	B	0.4	27.52
WJ.629	25	B	0.2	27.52

Distillate Receivers, Type 2, Cylindrical

Manufactured according to ASTM 3113 out of soda glass.

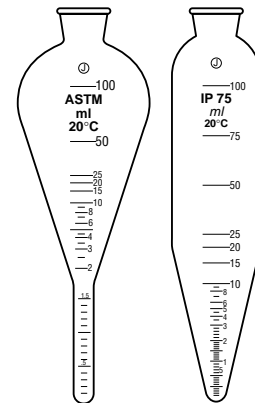
Product Code	Capacity ml	Class	Tolerance ± ml	Price Each
WJ.632	100	B	1.0	£ 23.65
WJ.633	200	B	1.4	29.74
RCT200	200	A	0.7	53.32



Centrifuge Tubes, Pear Shape, ASTM

Manufactured according to ASTM D96 out of borosilicate glass.

Product Code	Description	Price Each
WJ.634	Pear shape, 100ml, ASTM D96	£ 50.23



Centrifuge Tubes, Cone Shape, ASTM

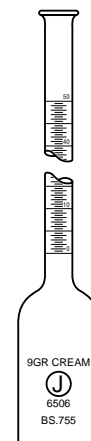
Manufactured according to ASTM D96 or IP 75 out of borosilicate glass.

Product Code	Description	Price Each
WJ.635	Cone shape, 100ml, IP75, 8"	28.35
WJ.636	Cone shape, 100ml, ASTM D96, 8"	28.35

Sulphonation Flasks

Manufactured according to ASTM D483 out of borosilicate glass.

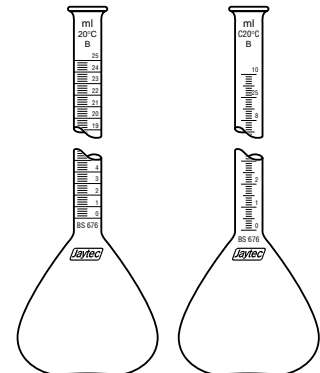
Product Code	Description	Price Each
WJ.647	50%, ASTM D483	£ 37.58



Cassia Flasks

Manufactured in accordance with BS.676:1982 from borosilicate glass.

Product Code	Type	Bulb Capacity	Neck Capacity	Graduations ml	Price Each
WJ.649	Cassia	150	10	0.1	30.66
FKC150	Cassia	150	10	0.1	51.06



Phenol Flasks

Manufactured in accordance with BS.676:1982 from borosilicate glass.

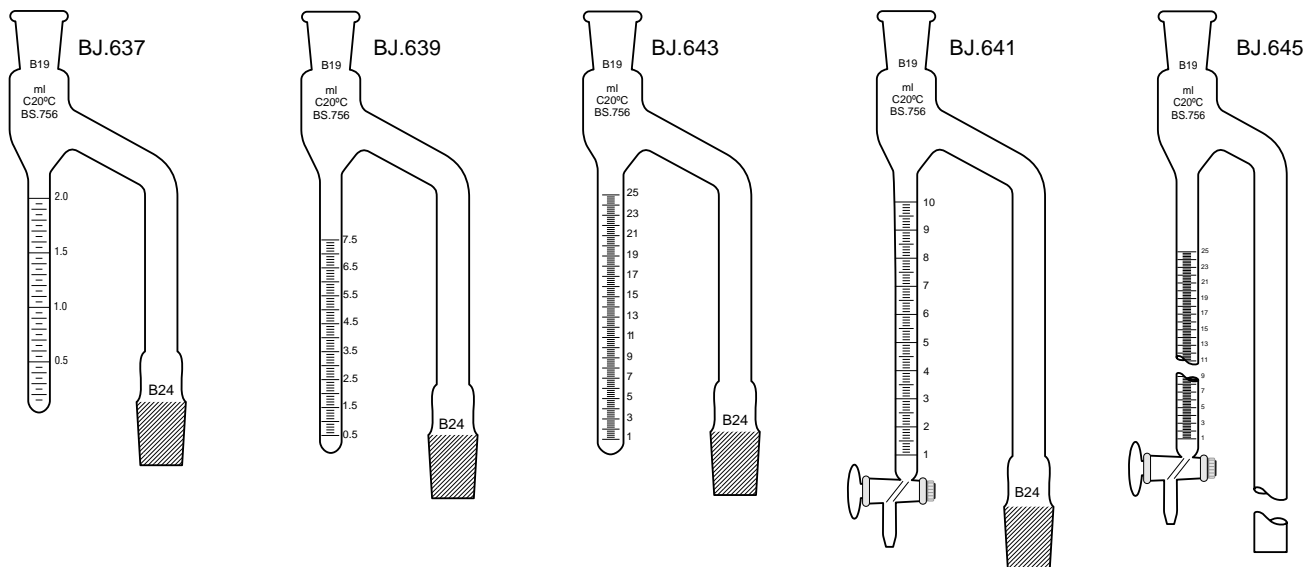
Product Code	Type	Bulb Capacity	Neck Capacity	Graduations ml	Price Each
WJ.648	Phenol	200	25	0.2	£ 54.02
FKP200	Phenol	200	25	0.2	62.06

Dean & Stark Receivers

Manufactured according to BS.756 out of borosilicate glass.

Product Code	Capacity ml	Graduations ml	Class	Tolerance ± ml	Price Each
BJ.637	2	0.05	A	0.02	£ 58.33
WJ.638	2	0.05	B	0.04	41.04
BJ.639	7.5	0.10	A	0.04	48.60
WJ.640	7.5	0.10	B	0.08	41.04
*BJ.641	10	0.10	A	0.06	86.40
*WJ.642	10	0.10	B	0.12	75.60
BJ.643	25	0.10	A	0.10	61.56
WJ.644	25	0.10	B	0.20	51.84
*BJ.645	25	0.10	A	0.10	86.40
*WJ.646	25	0.20	B	0.20	75.60

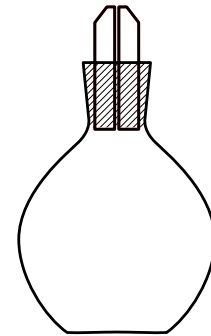
* With stopcock



Density Bottles, Type 3, Gay-Lussac, BS EN ISO 3507:1999, Adjusted

Borosilicate Glass

Product Code	Capacity ml	Price Each
WJ.759	5	£ 17.34
WJ.760	10	17.34
WJ.761	25	17.34
WJ.762	50	17.34
WJ.763	100	24.05
CT.909	Works Certificate of Accuracy	10.41



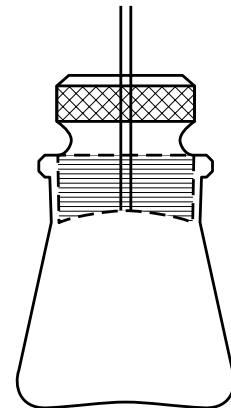
Density Bottles, Type 3, Gay-Lussac Style, Unadjusted, Non BS

Borosilicate Glass

Product Code	Capacity ml	Price Each
WJ.764	10	£ 12.26
WJ.765	25	12.26
WJ.766	50	12.26
WJ.767	100	14.57

Density Bottles, Hubbard

Product Code	Capacity ml	Price Each
WJ.750	25	£ 44.50
WJ.751	50	46.50



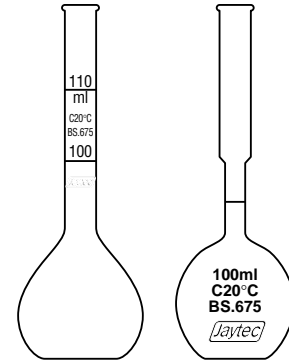
Industry Glassware

Sugar Flasks

Manufactured according to BS.675 in borosilicate glass.

Product Code	Type	Capacity ml	Class	Tolerance \pm ml	Price Each
WJ.788	1	100/110	B	0.15	£ 15.70
WJ.789	2	100	A	0.03	22.92
FVM220	1	200/220	B	0.25	18.38

*Kolhrausch; 50 and 200 ml Kolhrausch flasks available on request.



Brewers Mash Flasks

Manufactured according to BS.701. Made in borosilicate glass.

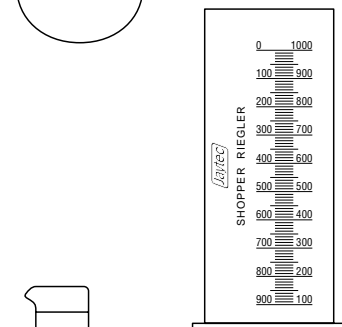
Product Code	Capacity ml	Tolerance \pm ml	Price Each
WJ.790	500 / 515	0.6	£ 21.41



Schopper Riegler Jar for Testing Paper

Manufactured in acrylic or borosilicate glass.

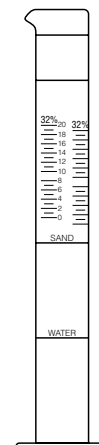
Product Code	Capacity ml	Tolerance \pm ml	Price Each
WJ.791	1000 ml	10.0	£ 66.75



Gammon Morgan Cylinders

Manufactured in borosilicate glass.

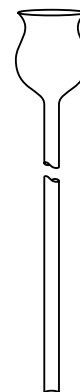
Product Code	Capacity and Tolerance	Price Each
WJ.792	Variable	£ 121.54



Thistle Funnels

Manufactured out of borosilicate glass.

Product Code	Description	Size in mm	Price per Pack
WJ.795	Thistle funnel	200	£ 2.82
WJ.796	Thistle funnel	250	2.92
WJ.797	Thistle funnel	300	3.08

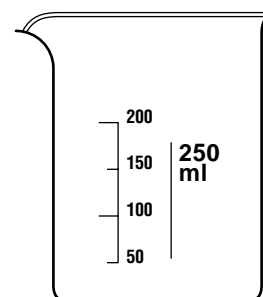


Industry Glassware

Beakers, Low Form

Made in borosilicate glass, ISO 3819.

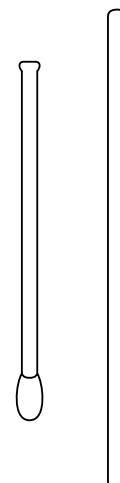
Product Code	Capacity ml	Number in Pack	Price per Pack
ER.822	50	12	£ 17.39
ER.823	100	12	18.68
ER.824	250	12	21.04
ER.825	400	12	27.65
ER.826	600	6	17.10
ER.827	1000	6	28.64
ER.828	2000	4	37.85



Stirring Rods, Spade and Button End

Made in borosilicate glass. Sold only in packs of 10.

Product Code	Length mm	Diameter mm	Price per Pack
WJ.834	150	7	£ 8.08
WJ.835	200	7	8.21
WJ.836	300	7	9.57



Stirring Rods, Straight Type

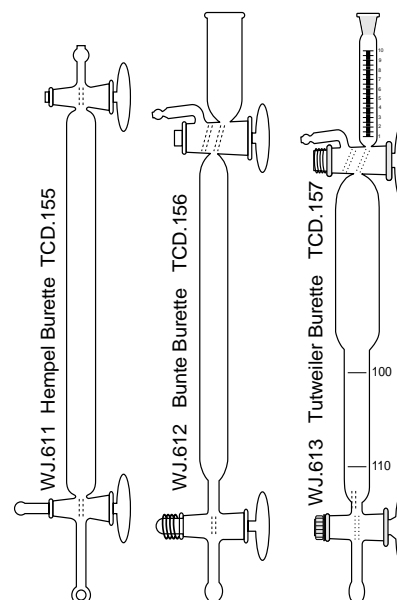
Made in borosilicate glass. Sold only in packs of 10.

Product Code	Length mm	Diameter mm	Price per Pack
WJ.837	150	7	£ 7.87
WJ.838	200	7	8.08
WJ.839	300	7	9.15

Gas Test Burettes

Made in borosilicate glass.

Product Code	Description	Price Each
WJ.611	100ml Hempel Gas, TCD.155	£ 199.72
WJ.612	100ml Bunte Gas, TCD.156	179.01
WJ.613	100 & 110ml Tutweiler, TCD.157	199.72



Industry Glassware

Gas Sampling Tubes, Type 1

Manufactured according to BS.2069. Made in borosilicate glass.

One-Way Stopcock

Product Code	Capacity ml	Overall Length mm	Tolerance \pm ml	Price Each
WJ.614	100	290	5	£ 36.61
WJ.615	250	340	5	45.76
†WJ.616	500	340	5	68.64

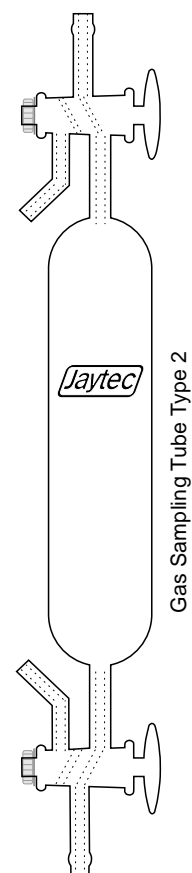
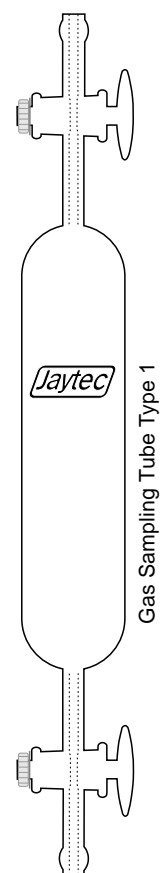
Gas Sampling Tubes, Type 2

Manufactured according to BS.2069. Made in borosilicate glass.

Two-Way Stopcock

Product Code	Capacity ml	Overall Length mm	Tolerance \pm ml	Price Each
WJ.617	100	290	5	£ 124.93
WJ.618	250	340	5	130.96
†WJ.619	500	340	5	139.14

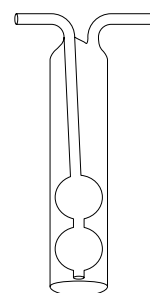
† Denotes this size or type is not British Standard



Arnold Wash Bottles

Manufactured of borosilicate glass.

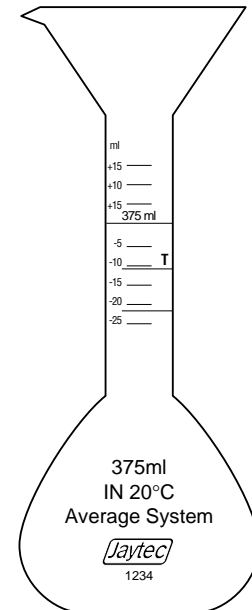
Product Code	Approx. Overall Height	Body O.D.	Side Arm O.D.	Price Each
WJ.660	125 mm	26 mm	6 mm	£ 27.54



AVERAGE SYSTEM MEASURES

Manufactured in borosilicate glass with enamel markings. Each item is serial numbered and certificates are available on request. Manufactured in accordance with Weights and Measures (Packaged Goods) Regulations 2006 No. 659. These items are used for serving non-alcoholic liquids for sale to the general public. They include acceptable error limits on serving sizes.

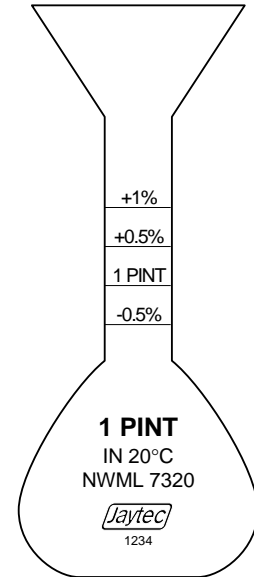
Product Code	Capacity ml	Tolerance \pm ml	T= ml	2xT = ml	Price Each
AS.297	30	0.4	2.7	5.4	£ 23.34
AS.298	50	0.8	4.5	9.0	23.34
AS.299	60	0.8	4.5	9.0	23.34
AS.300	100	0.8	4.5	9.0	23.40
AS.301	113	0.8	5.1	10.2	23.40
AS.302	125	0.8	5.6	11.2	23.40
AS.303	142	0.8	6.4	12.8	23.40
AS.328	170	0.8	7.7	15.4	23.40
MAS180	180	0.8	8.1	16.2	23.40
AS.304	187.5	0.8	8.5	17.0	24.40
AS.305	189	0.8	8.5	17.0	24.40
AS.306	200	0.8	9.0	18.0	24.40
AS.307	250	0.8	9.0	18.0	24.40
AS.308	275	0.8	9.0	18.0	25.67
AS.309	284	0.8	9.0	18.0	25.67
MAS300	300	0.8	9.0	18.0	25.80
AS.310	330	0.8	9.9	19.8	25.92
AS.311	350	1.0	10.5	21.0	25.92
AS.323	355	1.0	10.6	21.3	26.40
AS.312	375	2.0	11.3	22.6	27.68
AS.294	440	2.0	13.2	26.4	29.00
AS.313	500	2.0	15.0	30.0	29.80
AS.314	550	2.0	15.0	30.0	31.49
AS.315	568	2.0	15.0	30.0	31.49
AS.316	700	2.0	15.0	30.0	32.86
AS.325	720	2.0	15.0	30.0	34.64
AS.326	725	2.0	15.0	30.0	34.64
AS.317	750	2.0	15.0	30.0	34.64
AS.318	1000	2.0	15.0	30.0	56.87
AS.319	1130	2.0	17.0	34.0	68.43
AS.320	1136	2.0	17.0	34.0	68.43
AS.321	1500	4.0	22.5	45.0	80.52
MAS97F	1750	4.0	26.3	52.6	83.54
AS.322	2000	4.0	30.0	60.0	99.62
CT.912	Works Certificates for Average Measure Systems				10.27



Optic Measures

Manufactured in borosilicate glass with enamel markings. Each item is serial numbered and certificates are available on request. Whitegrad versions can also be manufactured. These measures are manufactured for use with Weights and Measures Regulations 1963/1710 regarding the serving of alcohol.

Product Code	Capacity	Tolerance ±ml	Price Each
OM.325	25 ml	0.20	£ 22.86
OM.326	35 ml	0.20	23.19
OM.327	50 ml	0.30	23.98
OM.328	70 ml	0.40	28.89
OM.329	125 ml	0.50	35.87
OM.330	175 ml	0.70	38.43
OM.331	1/2 Pint	0.80	39.52
OM.332	1 Pint	1.00	40.80
OM.333	1/6 Gill	0.20	31.18
OM.334	1/3 Gill	0.30	32.69
MON911	Combined Optic, 25, 35 & 50 ml		92.05
CT.911	Works Certificate for Optic Measures		10.27



Trading Standards Measures

Manufactured in borosilicate glass with enamel markings. Each item is serial numbered and certificates are available on request. Manufactured to conform with Weights and Measures Act 1985.

Product Code	Capacity	Tolerance ±ml	Price Each
TM.410	25	0.12	£ 170.62
TM.411	50	0.15	177.03
TM.412	100	0.20	267.46
TM.413	125	0.25	283.10
TM.414	150	0.30	288.98
TM.415	175	0.35	301.69
TM.416	200	0.40	323.62
TM.417	250	0.40	377.46
TM.418	500	0.50	432.24
TM.419	1000	1.00	486.43
TM.420	2000	1.00	604.72
TM.421	5000	2.50	749.35
TM.422	10000	5.00	907.10
TM.423	20000	10.00	1176.60



Pharmacy Measures

Conical Measures, Government Stamped

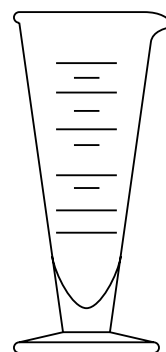
Manufactured according to BS.1922 out of soda glass. Each measure is Government Stamped.

Product Code	Capacity ml	Number of Graduations	Price Each
CM.363	5	5	£ 14.95
CM.364	10	10	15.50
CM.366	25	9	17.11
CM.368	50	10	17.50
CM.369	50	18	26.24
CM.371	100	10	17.71
CM.373	250	10	24.08
CM.375	500	10	31.03

Conical Measures, Unstamped

Manufactured out of soda glass.

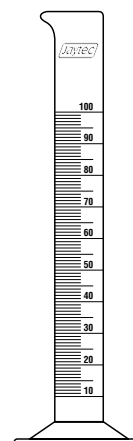
Product Code	Capacity ml	Number of Graduations	Price Each
CM.374	5	5	£ 10.25
CM.376	10	10	10.68
CM.378	25	9	11.34
CM.379	50	10	11.98
CM.380	50	18	15.35
CM.381	100	10	13.61
CM.382	250	10	18.73
CM.383	500	10	22.66



Cylinder Measures, Government Stamped

Manufactured in accordance with BS EN ISO 4788:2005 out of borosilicate glass. Each measure is Government Stamped.

Product Code	Capacity ml	Graduations ml	Tolerance \pm ml	Price Each
CY.140	5	0.1	0.05	£ 15.26
CY.141	10	0.2	0.1	15.26
CY.142	25	0.5	0.2	15.26
CY.143	50	1.0	0.4	16.01
CY.144	100	1.0	0.5	17.41
CY.146	250	2.0	1.0	22.02
CY.147	500	5.0	2.0	27.23
CY.148	1000	10.0	4.0	32.59
CY.149	2000	20.0	8.0	54.26



Pharmacy Measures

Bell Measures, Government Stamped

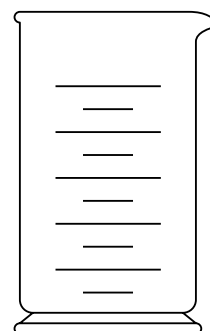
Manufactured according to BS.1922 out of borosilicate glass. Each measure is Government Stamped.

Product Code	Capacity ml	Number of Graduations	Tolerance \pm ml	Price Each
BM.355	250	10	1.5	£ 25.57
BM.357	500	10	2	29.53
BM.358	1000	10	4	38.21
BM.370	2000	8	8	85.36
BM.371	3000	6	8	96.60
BM.372	4000	8	10	114.13
BM.373	5000	10	12	162.00

Bell Measures, Unstamped

Manufactured out of borosilicate glass.

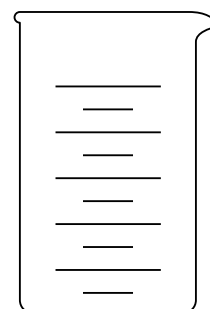
Product Code	Capacity ml	Number of Graduations	Tolerance \pm ml	Price Each
BM.359	250	10	1.5	£ 18.99
BM.360	500	6	2	22.33
BM.361	500	10	2	25.00
BM.362	1000	10	4	33.22



Beaker Measures, Government Stamped

Manufactured according to BS.1922 out of borosilicate glass. Each measure is Government Stamped. This indicates that each graduation line has been independently checked by a notified body to ensure that the volume is correct.

Product Code	Capacity ml	Number of Graduations	Tolerance \pm ml	Price Each
BN.351	10	10	0.2	£ 18.05
BN.352	25	10	0.3	20.43
BN.353	50	10	0.5	20.65
BN.354	100	10	1	20.87
BN.355	250	10	1.5	24.30
BN.356	500	10	2	28.05
BN.358	1000	10	4	36.30
BN.370	2000	8	8	68.04
BN.371	3000	6	8	88.94
BN.372	4000	8	8	102.60
BN.373	5000	10	10	145.80

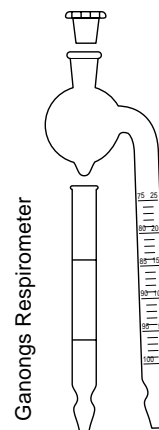


Educational Glassware

Ganongs Respirometer

Manufactured in borosilicate glass with white enamel markings.

Product Code	Description	Price Each
WJ.793	Glass parts only, with white enamel markings	£ 40.06



Gas Measuring Tubes

Borosilicate Glass

Product Code	Description	Price Each
WJ.794	50ml x 0.1ml	£ 10.88

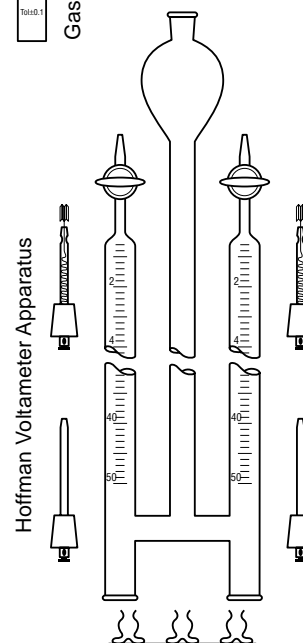


Hoffman Voltmeter Apparatus

For the demonstration of the chemical composition of water by volume and the electrochemical equivalent of Hydrogen by electrolysis.

Borosilicate Glass

Product Code	Description	Price Each
WJ.606	Voltmeter, ungraduated, glass parts only	£ 82.05
WJ.607	Votameter, 50ml graduated, glass parts only	107.77
WJ.608	Platinum electrodes, per pair	56.99
WJ.609	Carbon electrodes, per pair	18.41
WJ.610	Safety clamp	6.25

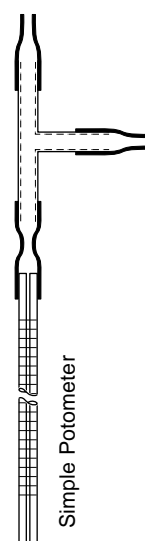


Simple Potometer

A new product we have developed to demonstrate transpiration in plants. This is a very simple apparatus which involves no immersion in water to assemble and no vaseline in the set up.

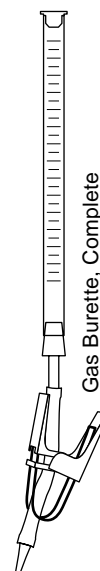
Syringes, stands and wire not included. Suitable for class practicals.

Product Code	Description	Price per pack of 5
PXF020	Farmer's Potometer	£ 40.11
PXF150	Simple Potometer to demonstrate transpiration in plants	14.33



Gas Burette, Complete

Product Code	Description	Price Each
WJ.391	Gas Burette, Complete, 14 ml, Special	£ 17.06

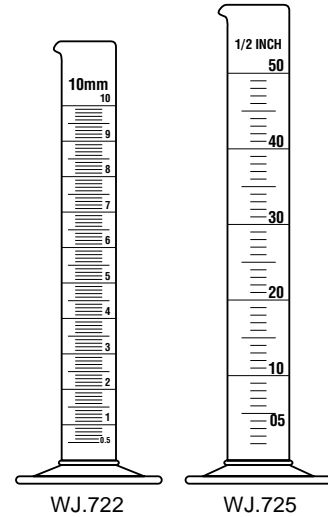


Rain Gauge Measures

Rain Gauge Measures, Cylindrical

Manufactured out of soda glass.

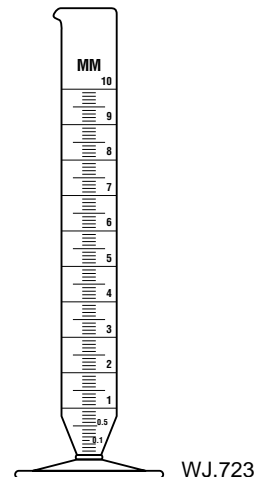
Product Code	Description	Rainfall & Funnel Size	Tolerance \pm mm	Price Each
WJ.722	Economy, Flat base	10 mm for 5"	0.1	£ 8.88
WJ.724	Standard, Flat base	1/2" for 5"	0.01	10.53
WJ.725	Flat base	10 mm for 8"	0.01	27.02
WJ.726	Flat base	50 mm for 5"	0.01	42.02



Rain Gauge Measures, Camden/Crowfoot

Manufactured out of borosilicate glass.

Product Code	Description	Rainfall & Funnel Size	Tolerance \pm mm	Price Each
WJ.723	Camden/crowfoot	10 mm for 5"	0.1	£ 22.52

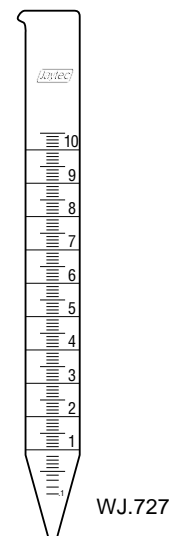


Rain Gauge Measures, Class A Tapered MO Pattern

Manufactured out of soda glass.

Product Code	Description	Rainfall & Funnel Size	Tolerance \pm mm	Price Each
*WJ.727	Class A Tapered MO Pattern	10mm for 5"	0.05	£ 36.75

* Serial Numbered; Tolerance below 2mm \pm 0.02

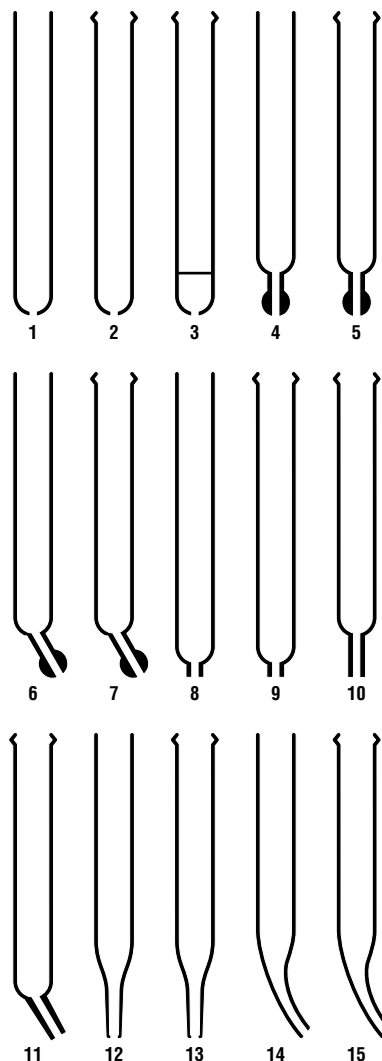


DROPPING PIPETTES

Pipettes are manufactured from neutral glass, but can be made of borosilicate or soda glass if required. We can supply virtually any size and style of dropping pipette. The most common shapes are illustrated at right. For convenience there is also a table showing the recommended pipette lengths for the most commonly used bottle sizes and types.

Our standard range of bent ball pipettes on page 35 are manufactured in 7.0mm neutral glass. Bent ball pipettes are supplied either loose or assembled with teat and cap. They can also be supplied printed with calibration lines. Please contact us for details.

Dropping PipetteTypes



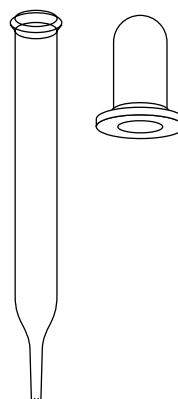
Recommended Lengths for Dropping Pipettes

Bottle Type	Bottle Volume	Neck Type	Pipette Length
Amber	5 ml	18GL	48mm
Amber	10 ml	18GL	59mm
Blue	10 ml	18GL	59mm
Amber Winchester	10 ml	R3/20	48mm
Amber Hexagonal	10 ml	R3/20	59mm
Amber	15 ml	18GL	65mm
Amber Winchester	15 ml	R3/20	59mm
Amber	20 ml	18GL	67mm
Amber Hexagonal	20 ml	R3/20	71mm
Amber	25 ml	18GL	71mm
Amber Winchester	25 ml	R3/20	71mm
Amber	30 ml	18GL	79mm
Blue	30 ml	18GL	79mm
Amber Winchester	30 ml	R3/20	79mm
Amber	50 ml	18GL	85mm
Blue	50 ml	18GL	85mm
Amber Winchester	50 ml	R3/20	87mm
Amber	100 ml	18GL	104mm
Blue	100 ml	18GL	110mm
Amber Winchester	100 ml	R3/20	104mm

Straight Pipettes and Teats

Pipettes of Neutral Glass

Product Code	Description	Price per pack of 10
K52/ASS017	Dropping Pipette with teat graduated at 0.5ml and 1ml	£ 4.78
K52/ASS018	Dropping Pipette with teat 2ml	3.67
K52/ASS022	Dropping Pipette graduated at 0.5ml and 1ml	2.68
K52/ASS023	Black Natural Rubber Teats	2.45
K52/ASS024	Dropping Pipette, 75mm	1.57

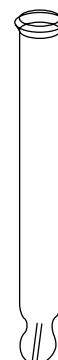


Disposables

Bent Ball Pipettes

Neutral Glass

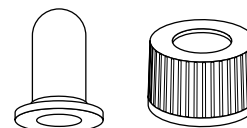
Product Code	Size	Price per 1,000
K07/B2/ARK/48	48 mm	£ 51.96
K07/B2/ARK/59	59 mm	54.43
K07/B2/ARK/65	65 mm	55.78
K07/B2/ARK/67	67 mm	56.24
K07/B2/ARK/71	71 mm	57.14
K07/B2/ARK/79	79 mm	57.14
K07/B2/ARK/85	85 mm	60.29
K07/B2/ARK/87	87 mm	60.74
K07/B2/ARK/104	104 mm	63.90
K07/B2/ARK/110	110 mm	65.92



Teats & Caps

Product Code	Item	Material	Size	Colour	Price per 1,000
K51/NRB	Teat	Natural Rubber	SR18	Black	£ 86.92
K51/20R3B	Cap	Phenolic	R3/20	Black	77.87
K51/GL18B	Cap*	Polyethylene	GL18	Black	62.58
K51/GL18W	Cap*	Polyethylene	GL18	White	67.02

* These caps have tamper-evident seals



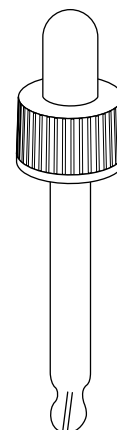
Bent Ball Pipette & Cap Assemblies

Pipettes of Neutral Glass

Product Code	Pipette Length	Bottle Neck Type	Price per 1,000
K52/ASS005	48 mm	18GL*	£ 221.59
K52ASS007	48 mm	R3/20	232.72
K52/ASS001	59 mm	18GL*	224.08
K52ASS008	59 mm	R3/20	235.20
K52/ASS025	65 mm	18GL*	225.42
K52/ASS029	65 mm	R3/20	236.54
K52/ASS006	67 mm	18GL*	225.88
K52ASS009	67 mm	R3/20	237.01
K52/ASS026	71 mm	18GL*	226.78
K52/ASS030	71 mm	R3/20	237.90
K52/ASS011	79 mm	18GL*	226.78
K52ASS010	79 mm	R3/20	237.90
K52/ASS027	85 mm	18GL*	229.93
K52/ASS031	85 mm	R3/20	241.06
K52/ASS002	87 mm	18GL*	230.39
K52/ASS032	87 mm	R3/20	241.51
K52/ASS012	104 mm	18GL*	233.54
K52/ASS033	104 mm	R3/20	244.66
K52/ASS028	110 mm	18GL*	235.57
K52/ASS034	110 mm	R3/20	246.68

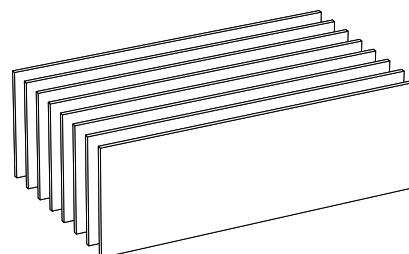
* These assemblies include caps with tamper-evident seals

Prices for printed assemblies on application

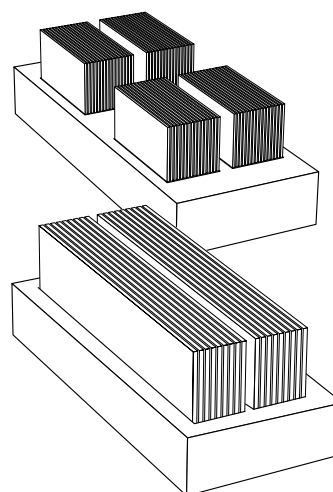


MICROSCOPE SLIDES, COVER CIRCLES AND SLIPS

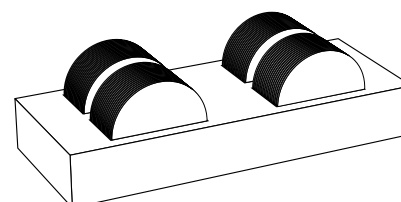
Product Code	Description	Thickness mm	Number per Box	Price per Box
Microscope Slides				
MCU00810	Slides, Clear, Unground	0.8-1.0	50	£ 1.24
MCU01012	Slides, Clear, Unground	1.0-1.2	50	1.24
MCU01215	Slides, Clear, Unground	1.2-1.5	50	1.35
MCG00810	Slides, Clear, Ground	0.8-1.0	50	1.35
MCG01012	Slides, Clear, Ground	1.0-1.2	50	1.35
MCG01215	Slides, Clear, Ground	1.2-1.5	50	1.47
MFU00810	Slides, Frosted 1 side, Unground	0.8-1.0	50	1.47
MFU01012	Slides, Frosted 1 side, Unground	1.0-1.2	50	1.47
MFU01215	Slides, Frosted 1 side, Unground	1.2-1.5	50	1.58
MFG00810	Slides, Frosted 1 side, Ground	0.8-1.0	50	1.64
MFG01012	Slides, Frosted 1 side, Ground	1.0-1.2	50	1.64
MFG01215	Slides, Frosted 1 side, Ground	1.2-1.5	50	1.75
MWG00810	Slides, Coloured 1 side, Ground	0.8-1.0	50	2.39
MWG01012	Slides, Coloured 1 side, Ground	1.0-1.2	50	2.39
MWG01215	Slides, Coloured 1 side, Ground	1.2-1.5	50	2.48
MBU00810	Slides, Frosted 2 sides, Unground	0.8-1.0	50	1.64
MBU01012	Slides, Frosted 2 sides, Unground	1.0-1.2	50	1.64
MBU01215	Slides, Frosted 2 sides, Unground	1.2-1.5	50	1.75
MBG00810	Slides, Frosted 2 sides, Ground	0.8-1.0	50	1.81
MBG01012	Slides, Frosted 2 sides, Ground	1.0-1.2	50	1.81
MBG01215	Slides, Frosted 2 sides, Ground	1.2-1.5	50	1.92



Cover Slips				
MCS01818	Cover Slips, 18 x 18mm	0.16-0.19	200	1.22
MCS02020	Cover Slips, 20 x 20mm	0.16-0.19	200	1.27
MCS02222	Cover Slips, 22 x 22mm	0.16-0.19	200	1.36
MCS02250	Cover Slips, 22 x 50mm	0.16-0.19	200	1.36
MCS02424	Cover Slips, 24 x 24mm	0.16-0.19	200	1.41
MCS02432	Cover Slips, 24 x 32mm	0.16-0.19	100	1.12
MCS02440	Cover Slips, 24 x 40mm	0.16-0.19	100	1.27
MCS02450	Cover Slips, 24 x 50mm	0.16-0.19	100	1.36
MCS02460	Cover Slips, 24 x 60mm	0.16-0.19	100	1.51
MCS21818	Cover Slips, 18 x 18mm	0.13-0.17	100	1.22
MCS22020	Cover Slips, 20 x 20mm	0.13-0.17	200	1.27
MCS22222	Cover Slips, 22 x 22mm	0.13-0.17	200	1.36
MCS22226	Cover Slips, 22 x 26mm	0.13-0.17	200	1.41
MCS22232	Cover Slips, 22 x 32mm	0.13-0.17	100	1.12
MCS22240	Cover Slips, 22 x 40mm	0.13-0.17	100	1.27
MCS22250	Cover Slips, 22 x 50mm	0.13-0.17	100	1.36
MCS22424	Cover Slips, 24 x 24mm	0.13-0.17	200	1.41
MCS22432	Cover Slips, 24 x 32mm	0.13-0.17	100	1.12
MCS22440	Cover Slips, 24 x 40mm	0.13-0.17	100	1.27
MCS22450	Cover Slips, 24 x 50mm	0.13-0.17	100	1.36
MCS22460	Cover Slips, 24 x 60mm	0.13-0.17	100	1.51



Cover Circles				
MCR00016	Cover Circles, 16mm dia	0.16-0.19	100	1.56
MCR00019	Cover Circles, 19mm dia	0.16-0.19	100	1.63
MCR00022	Cover Circles, 22mm dia	0.16-0.19	100	1.75
MCR20016	Cover Circles, 16mm dia	0.13-0.17	200	2.60
MCR20019	Cover Circles, 19mm dia	0.13-0.17	200	2.98
MCR20022	Cover Circles, 22mm dia	0.13-0.17	200	3.13



ISO 9001

All laboratory glassware that is manufactured by Jaytec Glass Limited., is under BS EN ISO 9001:2008 conditions and is of the highest standard of quality obtainable anywhere, with particular attention being given to the high standard of accuracy expected whenever volumetric glassware products are being used.

To maintain a high standard of quality, all our Laboratory Glassware products are manufactured by trained craftsmen using modern methods of production to prevailing British Standard Specification where such standards are specified.

Markings

The markings on our glassware products are clearly definable being produced using either permanent amber stain, acid-etch method of graduation or by using ceramic enamel permanently fused markings.

Units of Volume

The unit of volume that is used in the production and marking of volumetric glassware is based on and conforms to the SI System that is now adopted as the standard volumetric unit in the United Kingdom.

Types of Glass

This catalogue clearly identifies the type of glass used on each product, either SODA lime or BOROSILICATE glass tubing

Grade A Volumetrics

In certain instances where a high standard of accuracy is required for a particular reason, then volumetric glassware marked and conforming to CLASS A standard should be specified, these are clearly identified within the pages of this catalogue.

Certification

If required, and for an additional charge we can provide you with a Works Certificate of Accuracy which is traceable to the National Physical Laboratory. Please ask our Sales department about this facility.

Grade B Volumetrics

For normal or general Laboratory or classroom work where a high standard of accuracy is not required, then items of volumetric glassware marked as conforming to CLASS B standards of accuracy are sufficient for most needs, and are considered to be ideal for use in schools, colleges, universities, hospitals, industrial laboratories and for all kinds of general routine laboratory work.

The use of unapproved devices
The additional use of unapproved devices or of an appendage in any form with any of our laboratory glassware cannot be recommended, as the company will not be held responsible for any kind of mishap that results from the use of any such device.

Caution and Check

We advise that all items of laboratory glassware should be checked and examined prior to their use in order to ensure and satisfy without doubt that the item being used is fit for purpose and suitable for the application.

This warning applies particularly where items of different types of glass are used within a laboratory, as it is extremely dangerous for SODA glass items to be unknowingly used in a laboratory for heating chemicals of any kind of Bunsen burner, in a heating mantle or being subjected to any form of heat source that the normal working temperature is over 20°C.

For this reason we do specify in this catalogue wherever possible the particular type of glass that has been used in its manufacture. It must be assumed that whenever a particular glass has not been specified that this item has been fabricated using SODA glass.

Health & Safety

Unless otherwise stated, all Jaytec products when despatched from the factory are NOT sterile, and the user must act accordingly.

Distribution

The distribution of our laboratory glassware products to the user in the United Kingdom is made only through approved laboratory furnishers, and we reserve the right to alter or to adjust any

prices or materials without prior notice should circumstances be beyond our control make such an adjustment necessary.

Technical Assistance

We would be pleased to assist in an advisory capacity and in accord with our years of experience in the scientific glassware industry, in placing our knowledge at the disposal of technicians who may be in need of such assistance.

Additional Services

Acid Etching of Glassware
As a service for our customers we undertake the Acid-Etch method of graduating any item of volumetric scientific glassware that requires to be graduated to specific requirements, and will be pleased to advise and to be of assistance in providing this service.

Amberising of Glassware

We also offer an amberising service for Borosilicate glass products.

Screenprint marking of Glassware
We also undertake the silk-screen printing in either amber stain or White/Black/Blue enamel of glassware to special requirements of any items that are not shown in our catalogue.

Non-Catalogue or Custom Glassware.

Apart from the many products shown in this catalogue we have over the years manufactured many other Laboratory and Scientific glassware products with special requirements for our customers, Please ask our Sales Department for further information on this service or for them to provide you with a quotation.

Any glassware that is sent to us for graduating work or any additional process to be carried out by us, will only be accepted at the customers own risk in the event of breakage.

Terms and Conditions of Sale

Please refer to our complete list of conditions of Sale at the end of this catalogue.

1. Contract Terms

1.1 Unless other terms and conditions are expressly accepted by the seller by means of a specific written amendment hereto signed by the Seller the contract will be on the terms and conditions set out below ("the Contract terms") to the exclusion of any terms and conditions (except those implied in favour of a seller which are not inconsistent with the Contract terms) whether or not the same are endorsed upon, delivered with or referred to in any purchase order or other document delivered or sent by the buyer to the Seller.

1.2 The Uniform Laws on International Sales Act 1967 shall not apply to the contract.

2. Quotations

Quotations are valid for 30 days unless otherwise specified on the quotation.

3. Delivery

3.1 The Seller will endeavour to deliver the goods to be supplied under the contract ("the Goods" which expression includes any of them or any part of them) within the time agreed and if no time is agreed within a reasonable time, but in no circumstances will the seller be liable for the loss or damage of any kind whatsoever caused directly or indirectly by any delay in the delivery of Goods.

3.2 The seller may make delivery by instalments.

3.3 Goods will be delivered ex the Sellers works and the contract price is calculated on that basis unless otherwise specified on the Sellers quotation. Where the Seller arranges delivery of goods, the Seller will be under no obligation to give the buyer notice as specified in Section 32(3) of the Sale of Goods Act 1979.

3.4 No claim for damage or shortages will be considered unless the Seller is advised in writing within 10 days of delivery of the Goods. In the absence of such advise the Buyer will be deemed to have accepted the Goods. No claim for non-delivery will be considered unless the Seller is advised in writing within 30 days of the date on the Sellers invoice. Any claim for damage or non-delivery shall also be notified to the carriers by the Buyer in the manner and within the appropriate time limit prescribed by the carriers' terms and conditions. In the event of failure by the Buyer to give the appropriate notices the Buyers claim will be deemed to have been waived and will absolutely barred.

3.5 All prices quoted exclude the cost of Carriage & Packing which will be charged at cost to the Buyer and will usually be shipped overnight via Carrier (UK mainland only) These figures are Subject to an annual review. If the Customer requests a "special delivery" these will be charged to the customer also at cost. Except where the Seller has agreed in writing not to Charge

Carriage or Packing.

3.6 In the instance where customers arrange to pick up the Goods themselves the Seller reserves the right to levy a nominal charge to cover packaging.

4. Guarantee and exclusion clauses

4.1 Where the Seller is not the manufacturer of the Goods the Seller will endeavour to transfer to the Buyer the benefit of any warranty or guarantee given by the manufacturer.

4.2 Subject to clause 4.3 unless the Seller has notified the Buyer otherwise, whether in the Seller's catalogue or howsoever, the Seller will repair or at its option replace any Goods which are proved to the reasonable satisfaction of the Seller to be defective in material or workmanship (fair wear and tear excepted), provided such defects are notified to the Seller within 12 months of the date of despatch.

4.3 The Seller shall free of charge replace or at its option refund the price of any goods which are proved to the reasonable satisfaction of the Seller to be defective. Provided such defects are notified to the seller within 7 days of the date of despatch.

4.4 The obligations contained in clauses 4.2 & 4.3 will not apply where:-

4.4.1 the Goods have been altered in any way whatsoever or have been subject to misuse or unauthorised repair; or

4.4.2 the Goods have been improperly installed or connected (unless the Seller carried out such installation and connection) or

4.4.3 the Buyer has failed to observe any maintenance relating to the Goods; or

4.4.4 the Buyer has failed to notify the Seller of any defect or suspected defect within 14 days of the same coming to the knowledge of the Buyer; or

4.4.5 the Buyer is in breach of this or any other contract made with the Seller.

Any Goods replaced will belong to the Seller. Any repaired or replacement Goods will be guaranteed on these terms for the unexpired portion of the guarantee period

4.5 save such clauses 4.1 4.2 4.3 & 4.4 the Seller will be under no liability under the contract for any personal injury, death, loss or damage of any kind whatsoever (other than death or personal injury resulting from the Sellers negligence) whether consequential or otherwise including but not limited to the loss of profits and the Seller hereby excludes all conditions, warranties and stipulations express or implied, statutory, customary or otherwise which but for such exclusion would or might subsist in favour of the buyer except such exclusion will not apply to :-

4.5.1 Any implied condition that the Seller has or will have the right to sell the Goods when the property is to pass; or

4.5.2 When the buyer deals as a consumer (as defined in section 12 of the Unfair Contract Terms Act 1997), any implied term relating to the conformity of the Goods with their description or sample or as to their quality or fitness for particular purpose.

4.6 In no circumstances will the Seller or his employees, agents or sub-contractors be liable for any loss or damage of any kind whatsoever (other than death or personal injury resulting from the Seller negligence) whether consequential or otherwise caused directly or indirectly by any negligence or other tortious act or breach of statutory duty on the part of the Seller or on the part of any of his employees, agents or sub-contractors in connection with or arising out of the manufacture or supply of Goods or in connection with any statement given or made (or advice not given or made) by or on behalf of the Seller.

4.7 The buyer is responsible for ensuring that Goods returned to the Seller are free from biological and Chemical hazard or contamination. The Seller reserves the right to refuse to accept Goods which in its view present a hazard to its staff or which may infringe the Health and Safety etc. Act or which are without a signed Certificate that effective disinfection or decontamination has been carried out.

5. Property of Goods

5.1 The property (both legal and equitable in the Goods) shall not pass to the Buyer until the purchase price of the Goods have been paid in full, and payment to the Seller of any sum which is at the date of the contract or may thereafter become due or owing from the Buyer to the Seller.

5.2 Until property in the Goods has passed to the Buyer or until delivery of the Goods to a third party pursuant to the permission given below, the Buyer will hold the Goods in a fiduciary capacity, will not obliterate any identifying mark on the Goods or their packaging and will keep the Goods separate from any other goods.

5.3 Prior to the property of the Goods passing to the Buyer the Seller permits the Buyer to deliver the Goods to a third party pursuant to a bona fide and arms length agreement to re-sell the Goods and allows the Buyer to convert or incorporate the Goods into or mix the Goods with other goods but such liberty will cease upon the termination of the contract.

5.4 Where the Seller is unable to determine whether any goods are the Goods the Buyer shall be deemed to have sold all goods of the kind sold by the Seller to the Buyer in the order in which they were invoiced to the Buyer.

5.5 The Seller may at any time after payment for the Goods has become due take possession of the Goods (which for the avoidance of doubt will include the right to stop the Goods in transit) and remove them and the Buyer shall be deemed to have

Conditions of Sale

granted irrevocable authority to the Seller to enter upon the Buyer's premises or other premises where the Goods may be by its employees or agents to take possession of the Goods and (if necessary) to dismantle the Goods from any thing to which they are attached.

5.6 The Seller will have the right to maintain an action against the Buyer for the price of the Goods notwithstanding that property in the Goods has not passed.

5.6 Nothing in the contract will constitute the Buyer the agent or Seller in respect of any re-sale of the Goods by the Buyer so as to confer upon a third party rights against the Seller.

5.5 Notwithstanding any other Contract Term, risk in the Goods shall pass to the Buyer when the Goods are delivered to the Buyer or its agent.

6. Price

6.1 Subject to clause 6.2 the price shall be fixed as specified in the Sellers price list current at date of order except as otherwise in agreed writing.

6.2 The Seller reserves the right to amend the contract price of Goods to take account of any variations in currency exchange rates, transport taxes and duties or the or the imposition of any new taxes or duties occurring from whatever cause before delivery of the Goods.

6.3 Unless expressly stated otherwise all prices are exclusive of VAT which shall be charged at the rate and in the manner prescribed by law from time to time.

6.4 All orders are subject a minimum net order charge of £30.00.

7. Payment Terms

7.1 For all credit accounts approved by the Seller in writing for Customers in the UK, are to be paid in full within 30 days from the date of invoice

7.1 Payment will be made in Pounds Sterling in England The Buyer will establish and maintain in favour of the Seller an irrevocable letter of credit in English confirmed by a UK clearing bank payable at sight upon presentation to the bank by the Seller's invoice. Such letter of credit shall cover the full price of the Goods (including applicable taxes). All bank charges and other expenses in relation to the letter of credit shall be paid by the Buyer. No order will be acted upon until receipt of a suitable letter of credit unless other payment terms have been agreed by the Seller.

7.2 Interest at annual rate of 5% above Midland Plc base rate from time to time will accrue daily and be calculated on a daily basis on overdue accounts from 30 days after the invoice date until payment.

7.3 Notwithstanding any contract term allowing the Buyer credit payment shall become due and payable to the Seller

immediately upon termination of the contract.

7.4 Where the buyer makes a default under the contract or any other contract with the Seller in payment on the due date of any sum due to the Seller, the Seller without liability may postpone any delivery or may cancel the contract or any other contract between the Seller and the Buyer but without prejudice to any right or remedy which the Seller may have against the Buyer in respect of such default.

7.5 The Seller will be entitled to payments for all instalments of Goods delivered to the Buyer .

8. Cancellation

8.1 The Buyer is not entitled to cancel, extend or delay the contract or part thereof.

8.2 If the Seller consents to the Buyer cancelling the contract or part of thereof and returning the Goods to the Buyer shall be liable to pay the Sellers then current handling charge. Returns are only accepted subject to clause 4.7.

8.3 In the Case of an order being cancelled after a part shipment of the Goods have been made, the Seller reserves the right to have these Goods returned to the Seller at the Buyers Cost (Subject to clause 4.7).

8.4 If the Seller is unable to (wherever temporally or permanently) to procure any services or goods necessary to enable it to supply the Goods or if the supply of the Goods is prevented or hindered by reason of any cause beyond the Seller's reasonable control including labour disputes involving the work force or any part thereof to the Seller, restraints or delays affecting shipping or carriers, currency restrictions and Act of God, the Seller may cancel or suspend performance of the contract by notice in writing to the Buyer so far as it relates to Goods not then supplied or work not then done and such cancellation or suspension shall not give rise to claims by the buyer provided that the Buyer shall remain liable to pay for the Goods delivered prior to the date of such cancellation or suspension.

9. Promotional material

No drawings, descriptive matter, weights, dimensions or shipping specifications issued by the Seller or the manufacturer of the Goods, nor the descriptions and illustrations contained in the Seller's or manufacture's catalogues, price lists or other promotional material will form part of the contract nor be regarded as a warranty or representation relating to the Goods

10. Termination

10.1 The contract will terminate immediately upon the happening of any one or more of the following , namely , that the Buyer has had a bankruptcy order made against him or has made an arrangement or composition with his creditors or (being a body

corporate) has had convened a meeting of creditors (whether formal or informal) or has entered into liquidation (whether voluntary or compulsory) or has a receiver manager administrator or administrative receiver appointed of its undertaking or any part thereof or a resolution has been passed or a petition presented to any Court for the winding -up of the Buyer or for the granting of an administration order in respect of the Buyer or any proceedings have been commenced relating to the insolvency of the Buyer.

10.2 The contract will terminate immediately upon service of written notice of termination by the Seller on the Buyer if the Buyer has failed to observe or perform any of its obligations or duties under the contract.

11. Returned Goods.

If goods have been ordered then subsequently found by the customer to have been incorrectly ordered. The supplier will endeavour to assist the customer by accepting back, where possible items which are listed in their current Price List, however a charge of £30.00 per order will be levied to cover handling & administration. Items which are not in the current Price List are to be treated as "Special Items" and therefore have been manufactured specifically for that Customer and cannot be exchanged for credit.

12. Orders

All orders must be in writing. Verbal orders over the telephone will not be actioned until they are confirmed in writing by the Buyer.

13. English Law

The formation, interpretation and operation of the contract will be subject to English Law and the Buyer submits himself to the non-exclusive jurisdiction of the English Courts.

* "Seller":-

Jaytec Glass Limited

Jaytec House, Burgess Road, Ivyhouse Industrial Estate, Hastings, East Sussex TN35 4N4, United Kingdom

Telephone: +44(0)1424 424181

Fax: +44(0)1424 721224

Email: enquiries@jaytecglass.co.uk
www.jaytecglass.co.uk

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Jaytec House, Burgess Lane,
Ivyhouse Lane Industrial Estate,
Hastings, East Sussex TN35 4NR
United Kingdom

Tel: +44 (0)1424 424181

Fax: +44 (0)1424 721224

Email: enquiries@jaytecglass.co.uk

www.jaytecglass.co.uk

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