

Polarimeter Tubes - Low Volume



Figure 4

In addition to supplying standard 8mm diameter polarimeter tubes, Bellingham + Stanley also offer a range of low volume versions to allow users with a restricted volume of sample to make polarimetric analysis. Such applications include those in the chemical and pharmaceutical industry, where synthesis of the product provides little sample at the end of a process, or in the fragrance market, where sample value is relatively high.

The low volume is achieved by reducing the internal diameter of the tube to a minimum of 5mm and by reducing the tube length.

Low volume tubes are manufactured of stainless steel or PTFE with low strain cover glasses and rubber washers. They facilitate easy handling of sample by way of two luer taper connections (inlet/outlet) allowing use of compatible syringes for manual application or automated sample flow. The design of sample flow removes air bubbles and negates the need to remove cover glasses between each sample. For temperature-controlled measurement, water-jacketed versions are available and a 'temperature sensor clip' is available providing a mechanical connection to ADP polarimeter external temperature probes.



Figure 5

Low Volume Tubes without water jacket
(Figure 4)

Order Code	Description	Volume (ml)
35-71	5 x 50mm stainless steel tube	1.0
35-72	5 x 25mm stainless steel tube	0.5
35-73	5 x 10mm stainless steel tube	0.2
35-74	5 x 5mm stainless steel tube	0.1



Figure 6

Low Volume Tubes for temperature control applications
(Figure 5)

Order Code	Description	Volume (ml)
35-76	5 x 50mm stainless steel tube with water jacket	1.0
35-75	5 x 25mm stainless steel tube with water jacket	0.5

Low Volume Tubes for highly acidic samples
(Figure 6)

Order Code	Description	Volume (ml)
35-78	5 x 50mm glass loaded PTFE tube	1.0
35-77	5 x 25mm glass loaded PTFE tube	0.5

Spare Parts - all types

Order Code	Description	Diameter	Quantity	Type
35-60	Low strain cover glasses	15.5	12	
35-64	Rubber washers for use between cover glass and end cap	15.5	12	Glass
35-68	End caps, plastic	15.5	2	
35-20	End caps, metal	15.5	2	
35-21	Rubber Glands for metal end cap tubes & fitting tool	15.5	12	Glass
35-62	Low strain cover glasses	22.5	2	Water Jacketed
35-66	Rubber washers for use between cover glass and end cap	22.5	2	
35-88	End Caps, stainless steel	22.5	2	
35-79	Temp sensor saddle	-	1	
35-80	Low strain cover glasses	20	6	Low Volume
35-81	Rubber washers for use between cover glass and end cap	20	10	

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