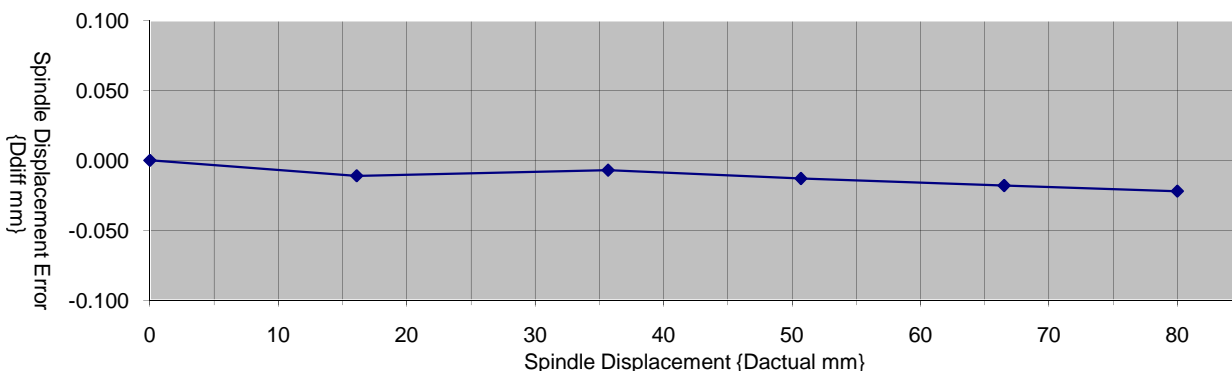


Spindle Test Report for Metrohm Titrino / Titrandos / Dosimat

Customer Details		Engineer / Date	
Customer:	Smith Ind.	Engineer:	T. Pickard
Location/Lab:	QC Lab	Date:	15-Dec-2009
Contact:	Alan Jones		

Dosimat / Titrino / Titrandos Details		Dial Gauge Details	
Instrument:	Titrimo	Serial No:	60529
Model No:	794	Cal Ref No:	MC48628002
Serial No:	14157	Recal due:	20-Aug-2010

Spindle Displacement Test Results					
Dispensed Volume Vset {mL}	Nominal Displacement Dref {mm}	Actual Displacement Dactual {mm}	Actual Error Ddiff {mm}	Regression StdDev. Sxo	Regression 95% Conf. Csxo
0.000	0.000	0.000	0.000	+/- 0.004 mm	+/- 0.012 mm
2.013	16.104	16.093	-0.011	+/- 0.004 mm	+/- 0.011 mm
4.459	35.672	35.665	-0.007	+/- 0.004 mm	+/- 0.010 mm
6.337	50.696	50.683	-0.013	+/- 0.004 mm	+/- 0.010 mm
8.314	66.512	66.494	-0.018	+/- 0.004 mm	+/- 0.011 mm
10.000	80.000	79.978	-0.022	+/- 0.004 mm	+/- 0.011 mm



Evaluation	
The Actual Error (Ddiff in mm) at all measured points must be: <u>No greater than +/- 0.07mm</u>	
The spindle drive of the tested Dosing instrument has PASSED the evaluation criteria.	
Engineer Signature:	Date: