

#### 4. Example for assessing pump test costs (cost components taken from graphs in paragraph 3)

Horizontal multistage pump

800 mm branch size, 100 kw motor	value	400 Units
Tests required	5 point Q/H duty curve 1 point NPSH Strip for examination at end of test Clients inspector to attend	
Basic test cost	Power component (from graph) Discharge branch component (from graph) Pump value component (from graph)	17 12 15 <hr/> 44
Extra test cost	5 point Q/H curve 1 point NPSH curve Strip for examination	10% 25% 30% <hr/> 65%
Basic test cost and extras	44 + 65%	73
Unwitnessed works test cost	Factor for multistage pump 73 x 1,2	1,2 88
Witnessed test	Unwitnessed works test cost + 75% 88x1,75	<hr/> 154 554 units

#### Summary (Cost make up shown on a %-basis)

			<u>units</u>	<u>%</u>
Witnessed test	Unwitnessed works test cost + 75%		554	138,5
Unwitnessed works test cost	Factor for multistage pump 1,2		488	122
Extra test costs	5 point Q/H curve 10% 1 point NPSH curve 25% Strip for examination 30%	65%	473	118,25
Basic test cost	Power component (from graph) 17 Discharge branch component (from graph) 12 Pump value component (from graph) 15	44	444	111
	Pump value		400	100