
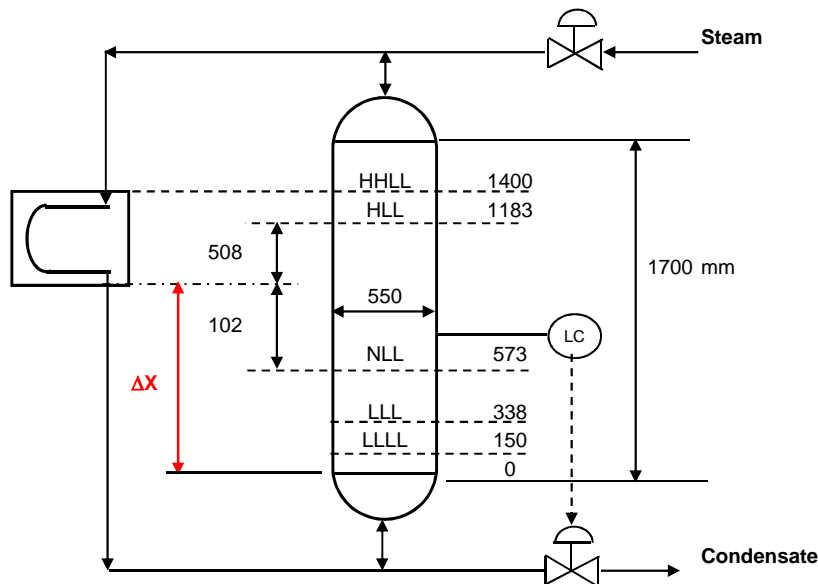


PROJECT :			DATE :	23-Apr-11
PROJ. NO.:			BY :	S. Rahimi
CLIENT:			REV :	A
UNIT :			DOC NO.:	

Steam Condensate Pot Sizing

Input Data		
Vessel Tag No.	V-5103	
Vessel Service	Cond. Pot	
Condensate Flow Rate	kg/hr	1811
Flow Rate Overdesign	%	20
Condensate Density	kg/m ³	810.7
Reboiler Orientation	----	Horizontal
Reboiler bundle Pressure Drop	bar	0.01
Reboiler Turndown Operation	%	30
Condensate Line Pressure drop	bar/100m	0.0035
Condensate Line Length	m	20
Reboiler Bundle Diameter	mm	725
Pot BTM TL - LLLL Height	mm	150
Pot LLLL - LLL Height	mm	188
Pot Hold up time (LLL - NLL)	min	1
Pot Hold up time (NLL - HLL)	min	1.5
Pot HLL - TOP TL	mm	300

Calculation Results		
Reboiler Pressure drop	mm	93
Condensate Line Pressure Drop	bar	0.001
Condensate Line Pressure Drop	mm	9
Reboiler bottom to Pot NLL	mm	102
Reboiler Back Flooding Height	mm	507.5
Pot Total Height	mm	1700
Span Length (LLL - HLL)	mm	609
Condensate Volumetric Flow	m ³ /hr	3.4
Pot Cross Sectional Area	m ²	0.23
Pot Calculated Diameter	mm	540
Pot Selected Diameter	mm	550
Pot LLL to NLL	mm	235
Min ΔX (for indicating on PID)	mm	675



Notes