SPP Pumps Limited

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Customer :

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Project :

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Quote Ref. : UK-3116-29

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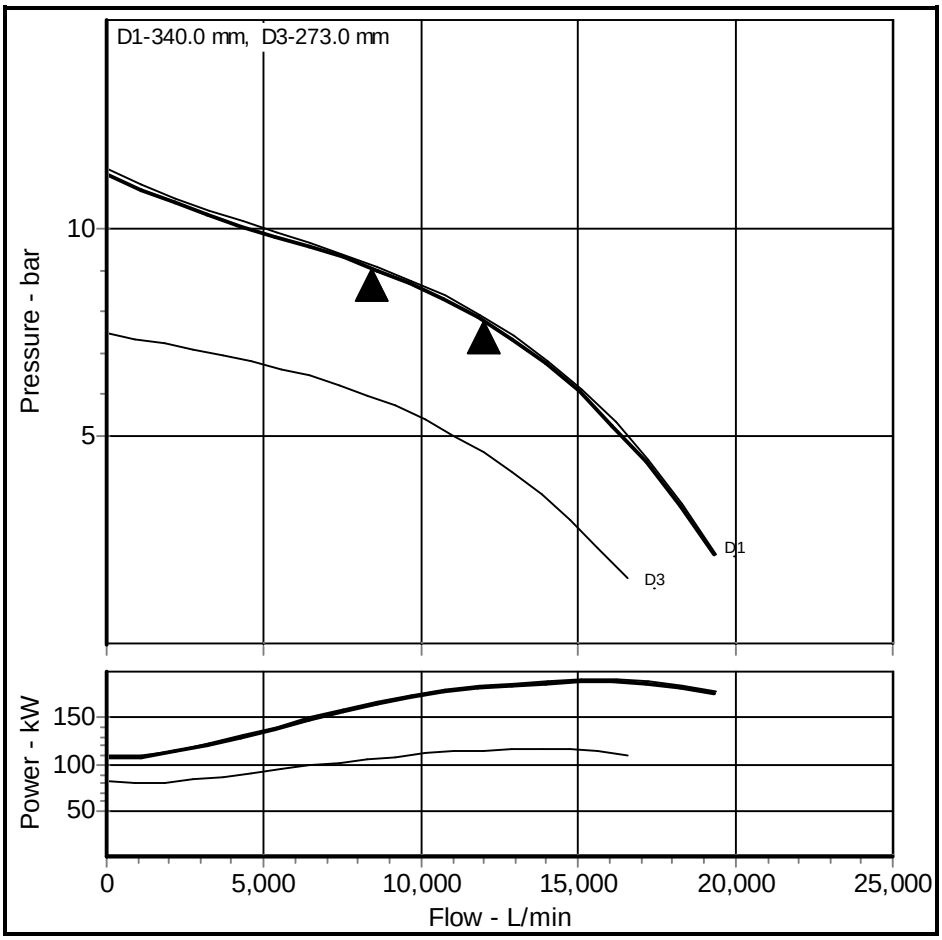
Date : 11 December 2013

Type:	Horizontal Thru-Stream (LPCB Listed) - Axial Split Case	Item :	1
Pump Model:	SPP - TD20D	Impeller No.:	
Pump Op. Speed:	2525 RPM	Liquid:	Water
Impeller Dia.:	337.8 mm	Temperature:	15 °C
Curve No.:	TD20D-C2600/1S-C1	Viscosity:	1.14 cSt
Market :	LPC Fire Pump (Precalculated Flows)	Density:	999.1 kg/m³
		Your Ref. :	



100% duty flow	8400	L/min
Pressure at duty flow	9	bar
Imp. Dia.	337.8	mm
Power Required	164.6	kW
NPSH Required	3.1	m
Efficiency	78.2	%

Peak Power	188.7	kW
Closed Valve Pressure	11.3	bar
Flow at NPSHr=5.38 m	13547.5	L/min
Flow at 140%	11995.2	L/min
Head at 140%	7.8	bar
Power Req. at 140%	182.9	kW

☒ Add 2% Cooling

Comments

NPSH REQUIRED at centreline of impeller. Add 0.5m to Laboratory NPSH curve for field applications

Flow (L/min)	Head (bar)	Pump Efficiency (%)	Power Required (kW)	NPSH Required (m)
0.0	11.3	0.0	107.9	
2415.4	10.5	37.0	114.8	2.6
4830.8	9.9	59.8	133.8	2.7
7246.2	9.4	73.2	154.6	2.9
9661.6	8.7	81.4	171.7	3.3
12076.9	7.7	85.2	183.2	4.3
14492.3	6.4	82.5	188.4	6.4
16907.7	4.6	69.6	187.0	
19323.1	2.2	39.3	176.6	