



SPP Pumps Limited

Crucible Close Musher Industrial Park Coleford Gloucestershire  
 GL168PS United Kingdom  
 Mr. Daniel J Palmer  
 Phone (01594) 838 735 \*Ext. 8735

Customer :

Project :  
 Quote Ref. : UK-3116-29

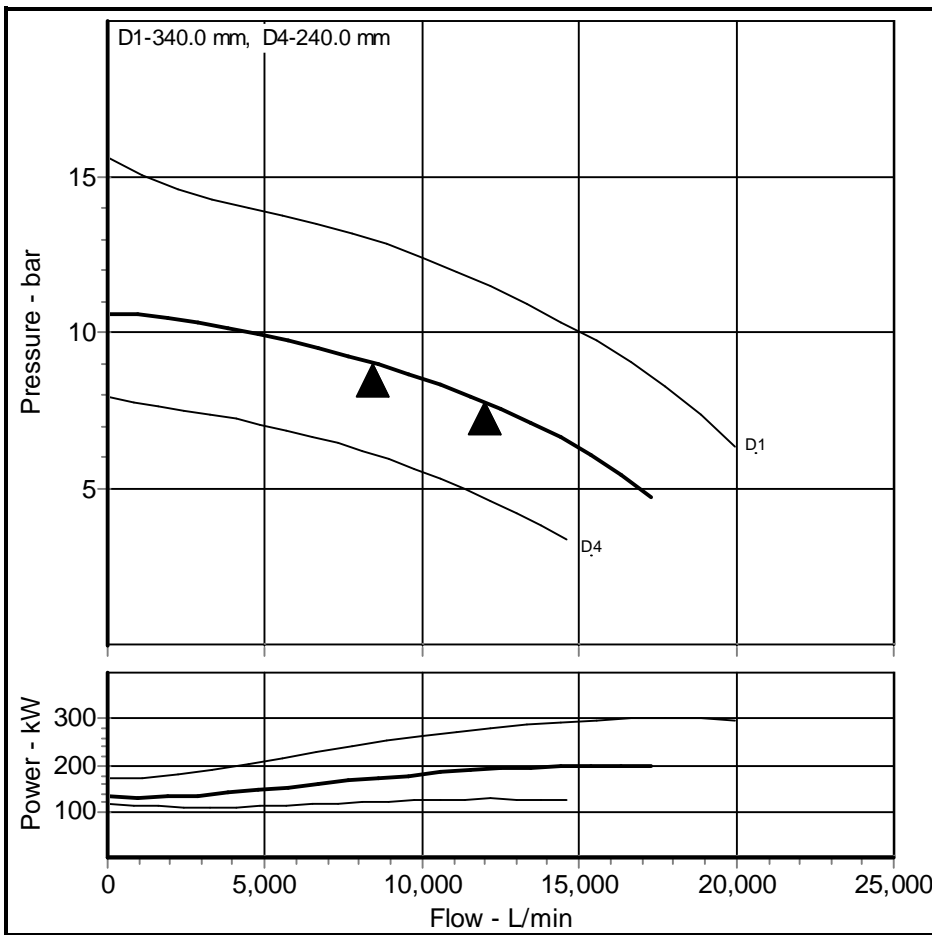
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Contact :  
 Phone :  
 Date : 11 December 2013

Fax :

Type: Horizontal Thru-Stream (LPCB Listed) - Axial Split Case  
 Pump Model: SPP - TD20D  
 Pump Op. Speed: 2950 RPM, 50 Hz Electric  
 Impeller Dia.: 281.0 mm  
 Curve No.: TD20D-C2950/1B-A2  
 Market : LPC Fire Pump (Precalculated Flows)

Item : 1  
 Impeller No.:  
 Liquid: Water  
 Temperature: 15 °C  
 Viscosity: 1.14 cSt  
 Density: 999.1 kg/m³  
 Your Ref. :



100% duty flow	8400 L/min
Pressure at duty flow	9 bar
Imp. Dia.	281 mm
Power Required	171.7 kW
NPSH Required	4.6 m
Efficiency	75 %

Peak Power	199.4 kW
Closed Valve Pressure	10.6 bar
Flow at NPSHr=5.38 m	12151.2 L/min
Flow at 140%	11995.2 L/min
Head at 140%	7.8 bar
Power Req. at 140%	190.2 kW
<input checked="" type="checkbox"/> 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	10.6	0.0	132.2	
2159.2	10.5	28.5	132.3	
4318.4	10.1	50.9	142.9	4.2
6477.6	9.6	65.8	157.5	4.3
8636.8	9.0	75.2	172.2	4.6
10796.0	8.3	80.6	184.7	5.0
12955.1	7.4	82.3	193.8	5.7
15114.3	6.3	79.4	198.8	7.0
17273.5	4.8	69.0	198.6	