



SPP Pumps Limited

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 United Kingdom  
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Customer :

Project :  
 Quote Ref. : UK-100223-898

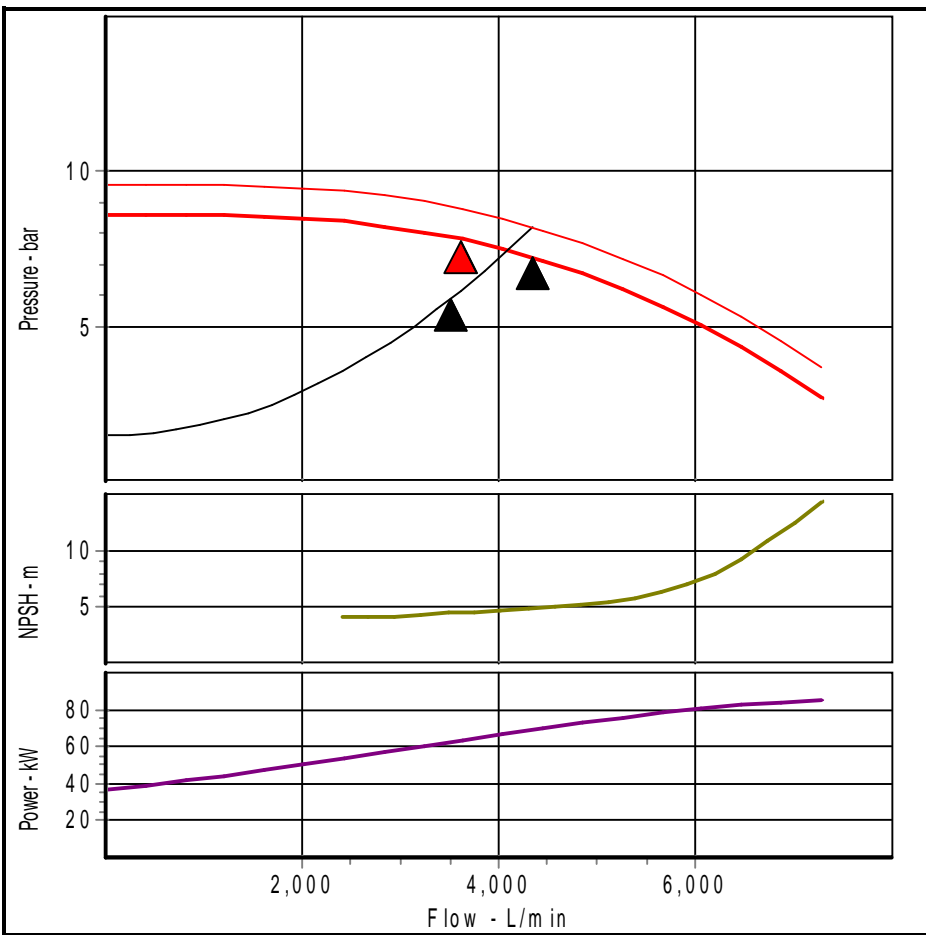
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Contact :  
 Phone :  
 Date : 15 September 2011

Fax :

Type: **Unistream (LPCB Listed) - Long Cpld End Suction**  
 Pump Model: **SPP - KP10X**  
 Pump Op. Speed: **2950 RPM, Diesel**  
 Impeller Dia.: **241.4 mm**  
 Curve No.: **KP10X-C2950/2B-C1**  
 Market : **LPC Fire Pump (Fully Hydraulically Calculated)**

Item : **1**  
 Impeller No.:  
 Liquid: **Water**  
 Temperature: **20 °C**  
 Viscosity: **1.01 cSt**  
 Density: **998.2 kg/m³**  
 Your Ref. :



MRA Flow	<b>3604</b> L/min
MRA Pressure (inc. 0.5 Bar)	<b>7.8</b> bar
Imp. Dia.	<b>241.4</b> mm
Power Required	<b>63.3</b> kW
NPSH Required	<b>4.5</b> m
Efficiency	<b>75.3</b> %

MFA Flow	<b>3509</b> L/min
MFA Pressure	<b>5.9</b> bar
Tank Height	<b>10</b> m
Sprinkler Height	<b>15</b> m
Predicted Qmax	<b>4338.4</b> L/min
NPSH Req. at Qmax	<b>4.9</b> m
Peak Power	<b>84.5</b> kW
Power at (Qmax+10%)	<b>72.1</b> kW
Closed Valve Pressure	<b>8.6</b> bar
Flow at NPSHr=5.38 m	<b>5091.6</b> L/min
<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	8.6	0.0	36.1	
910.3	8.6	31.0	42.2	
1820.6	8.5	53.2	48.7	
2730.9	8.3	67.8	55.7	4.2
3641.2	7.8	75.1	63.1	4.5
4551.5	7.0	75.8	70.4	5.0
5461.8	5.9	70.2	77.1	5.9
6372.1	4.5	58.3	82.2	8.8
7282.4	2.7	39.2	84.5	14.3