



SPP Pumps Limited

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 United Kingdom
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Customer :

Project :

Quote Ref. : UK-100223-842

Page No : 1

Contact :

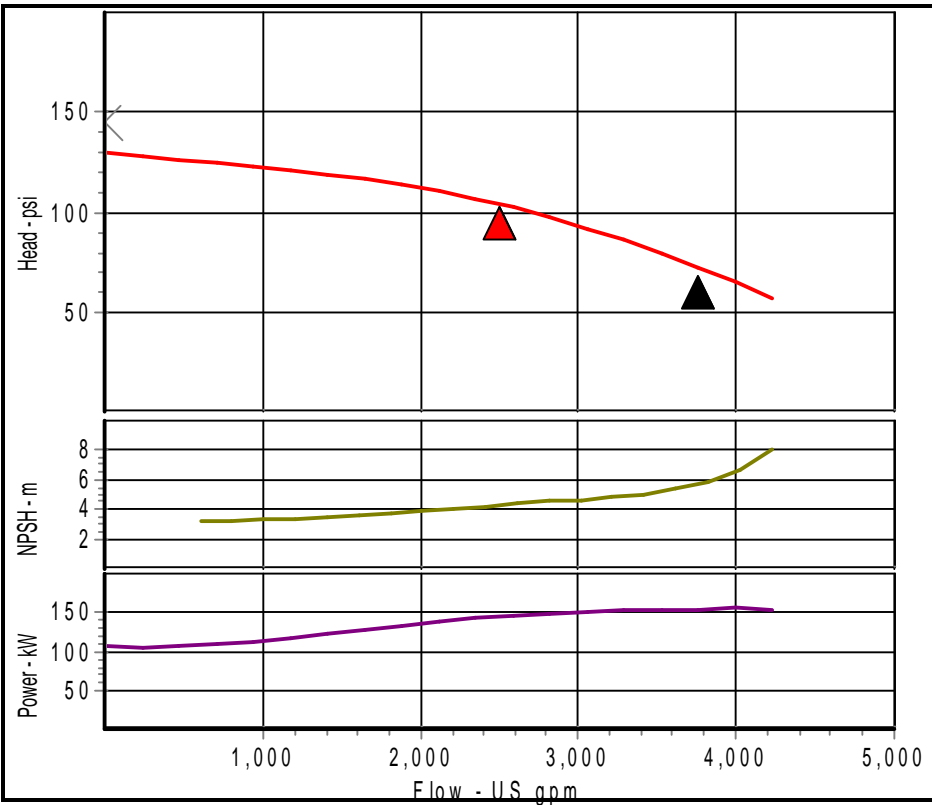
Phone :

Fax :

Date : 12 April 2011

Type: **Horizontal Thru-Stream (FM and/or UL) - Axial Split Case**
 Pump Model: **SPP - TD20D**
 Pump Op. Speed: **2800 RPM**
 Impeller Dia.: **271.0** mm
 Curve No.: **TD20D-C2800/1G-C1**
 Market : **FM/UL/ULC Listed Fire Pump**

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



Rated Flow	2500 US gpm
Rated Head	103 psi
Imp. Dia.	271 mm
Rated Power Required	144.6 kW
Rated NPSH Required	4.3 m
Rated Efficiency	78.4 %

NFPA Limits:	
140% Head at shutoff	145.6 psi
65% Head at 150% flow	67.6 psi
Flow at 150%	3750 US gpm
Head at 150	72.5 psi
Power Req. at 150%	154.5 kW
NPSH Req. at 150%	5.7 m
Efficiency at 150%	76.7 %
Peak Power	154.6 kW
Closed Valve Pressure	129.8 psi
Approval	FM
<input checked="" type="checkbox"/> Add 2% Cooling	

Comments
 NPSH REQUIRED at centreline of impeller. Add 0.5m to Laboratory

Flow (US gpm)	Head (psi)	Pump Efficiency (%)	Power Required (kW)	NPSH Required (m)
0.0	129.8	0.0	106.2	
528.7	125.5	27.3	106.0	
1057.4	122.0	49.0	114.9	3.3
1586.1	117.4	64.0	126.8	3.6
2114.8	110.6	73.9	138.1	4.0
2643.6	101.1	79.5	146.7	4.4
3172.3	88.9	80.9	152.0	4.8
3701.0	74.0	77.3	154.4	5.5
4229.7	56.4	67.4	154.4	