



SPP Pumps Limited

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Customer :

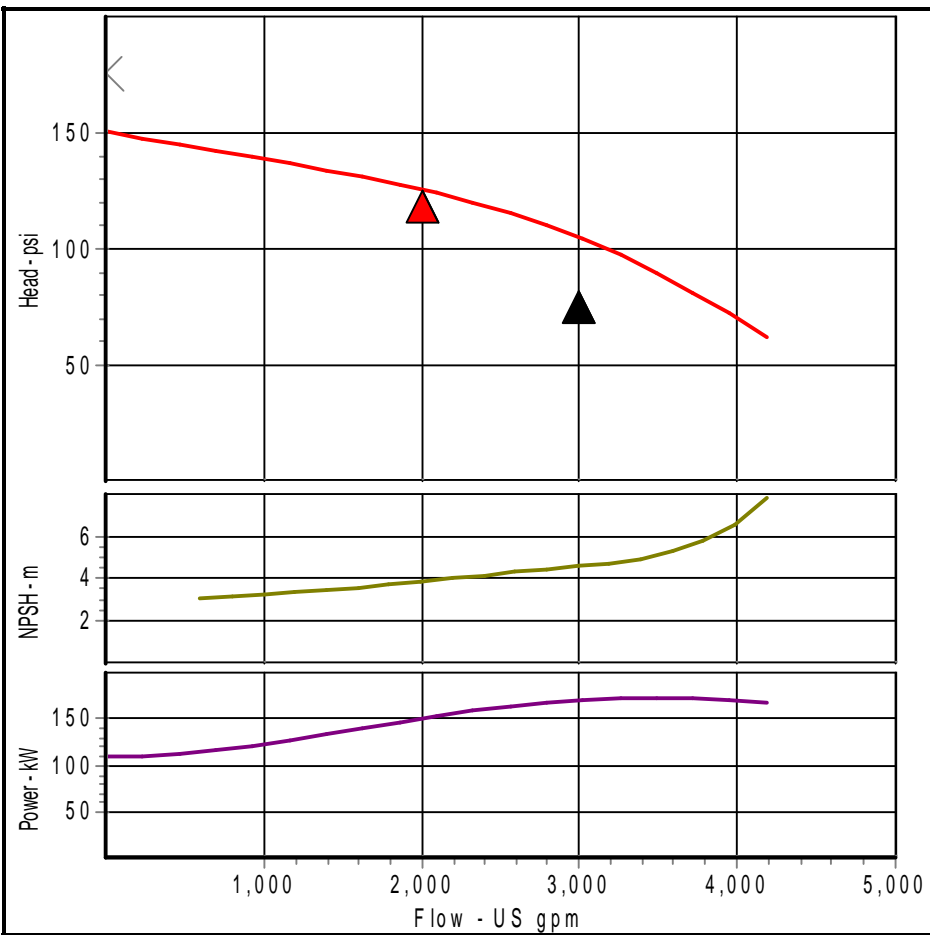
Project :
 Quote Ref. : UK-100223-350

Page No : 1

Contact :
 Phone :
 Date : 09 November 2011

Fax :

Type: **Horizontal Thru-Stream (FM and/or UL) - Axial Split Case** Item : **1**
 Pump Model: **SPP - TD20E** Impeller No.:
 Pump Op. Speed: **2800 RPM** Liquid: **Water**
 Impeller Dia.: **301.2** mm Temperature: **20** °C
 Curve No.: **TD20E-C2800/2G-C1** Viscosity: **1.01** cSt
 Market : **FM/UL/ULC Listed Fire Pump** Density: **998.2** kg/m³
 Your Ref. :



Rated Flow	2000 US gpm
Rated Head	125 psi
Imp. Dia.	301.2 mm
Rated Power Required	150.3 kW
Rated NPSH Required	3.9 m
Rated Efficiency	72.9 %

NFPA Limits:	
140% Head at shutoff	175.9 psi
65% Head at 150% flow	81.7 psi
Flow at 150%	3000 US gpm
Head at 150	104.8 psi
Power Req. at 150%	170.1 kW
NPSH Req. at 150%	4.6 m
Efficiency at 150%	80.6 %
Peak Power	172.8 kW
Closed Valve Pressure	151.1 psi
Approval	FM
<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 (US gpm)	Head (psi)	Pump Efficiency (%)	Power Required (kW)	NPSH Required (m)
0.0	151.1	0.0	109.2	
523.2	144.0	29.3	112.3	
1046.3	138.0	51.0	123.4	3.3
1569.5	131.8	65.3	138.1	3.6
2092.7	124.1	74.2	152.7	4.0
2615.8	114.2	79.2	164.5	4.3
3139.0	100.9	80.6	171.4	4.7
3662.2	83.6	77.4	172.5	5.4
4185.3	61.7	67.2	167.7	7.9