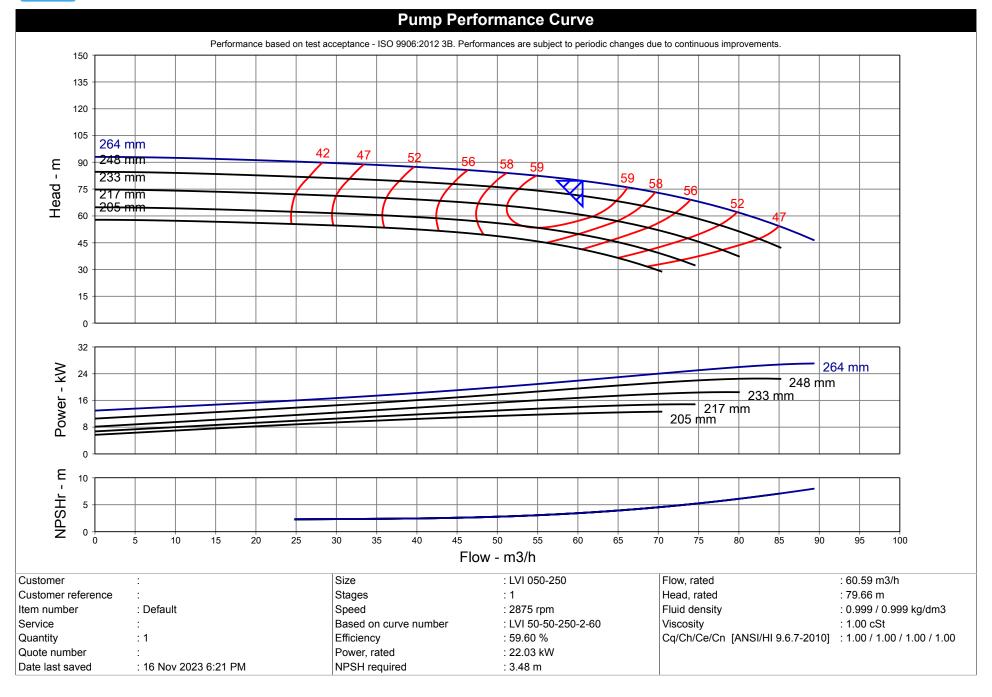
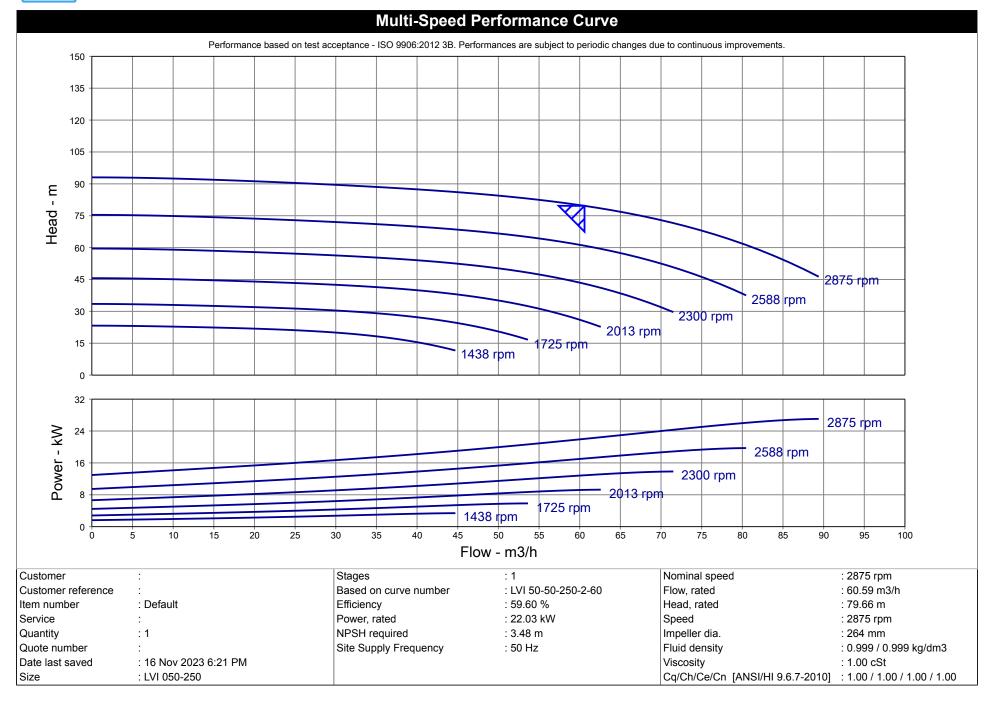


Pump Performance Datasheet Quote number Customer Size : LVI 050-250 Customer reference Item number : Default Stages : 1 Service Based on curve number : LVI 50-50-250-2-60 Quantity : 1 Date last saved : 16 Nov 2023 6:21 PM **Operating Conditions** Liquid : 60.59 m3/h Liquid type : Water Flow, rated Head, rated (requested) : 79.66 m Additional liquid description Solids diameter, max : 79.66 m Head, rated (actual) : 0.0 mm Suction pressure, rated / max : 0.00 / 0.00 bar.g Solids concentration, by volume : 0.00 % NPSH available : Ample Temperature : 20.00 deg C Site Supply Frequency : 50 Hz Fluid density : 0.999 / 0.999 kg/dm3 Viscosity : 1.00 cSt Performance Speed criteria Vapor pressure, rated : 0.00 bar.a : Synchronous Material Speed : 2875 rpm : 264 mm Material selected Impeller dia. : Standard Impeller diameter, maximum : 264 mm Pressure Data Impeller diameter, minimum : 205 mm Maximum working pressure : 9.11 bar.g Efficiency : 59.60 % Maximum allowable working pressure : 16.00 bar.g : 3.48 / 0.00 m NPSH required / margin required Maximum allowable suction pressure : 2.50 bar.g nq (imp. eye flow) / S (imp. eye flow) : 14 / 146 Metric units Hydrostatic test pressure : 24.00 bar.g MCSF Driver & Power Data (@Max density) Head max. : 93.05 m Driver sizing specification : Maximum power Head rise to shutoff : 16.81 % Margin over specification : 0.00 % Flow, best eff. point : 60.59 m3/h Service factor : 1.00 Flow ratio, rated / BEP : 100.00 % Power, hydraulic : 13.13 kW Diameter ratio (rated / max) : 100.00 % Power, rated : 22.03 kW Head ratio (rated dia / max dia) : 100.00 % Power, maximum : 27.05 kW Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010] : 1.00 / 1.00 / 1.00 / 1.00 Motor rating : 29.83 kW / 40.00 hp Selection status : Acceptable Performance based on test acceptance - ISO 9906:2012 3B. Performances are subject to periodic changes due to continuous improvements. 150 135 120 105 264 mm 42 47 248 mm Ε 90 233 mm 75 217 mm 205 mm 60 45 30 15 O 32 Power - kW 264 mm 24 248 mm 233 mm 16 217 mm 205 mm 8 NPSHr - m 10 5 0 10 15 25 30 35 50 60 65 70 100 Flow - m3/h











Customer

Life Cycle Cost Datasheet

: Quantity : 1 Size : LVI 050-250

Customer reference : Quote number : Stages : 1

Item number : Default Date last saved : 16 Nov 2023 6:21 PM Speed : 2875

Service :

Load Profiles and Energy Costs

Loud From Country Cooks								
Expected pump life: 20 years	Load Profile #1	Load Profile #2	Load Profile #3	Load Profile #4	Load Profile #5	Total		
Flow: (m3/h)	15.35	-	-	-	-	-		
Operation: (hours per year)	8,760	-	-	-	-	8,760		
Energy cost, present value (\$ per kWh)	0.1	-	-	-	-	-		
Speed (rpm)	2875	-	-	-	-	-		
Head (m)	91.88	-	-	-	-	-		
Efficiency (%)	25.95	-	-	-	-	-		
Power, rated (kW)	14.78	-	-	-	-	-		
Motor efficiency (%)	100.00	-	-	-	-	-		
Drive/gear efficiency (%)	100.00	-	-	-	-	-		
System curve		-	-	-	-	-		
Energy, total (kWh)	2,590,087.3	-	-	-	-	2,590,087.3		
Energy cost, per year	\$ 12,950.44	-	-	-	-	\$ 12,950.44		
Energy cost, total present value	\$ 194,235.55	-	-	-	-	\$ 194,235.55		

Life Cycle Cost Calculation

Interest and Inflation Rates	
rate %	
atc, 70	6.00
rate, %	3.00
Total Net Present Value Costs	
ergy cost :	\$ 194,235.55
ditional annual cost :	\$ 0.00
ditional one-time cost :	\$ 0.00
cycle cost :	\$ 194,235.55
lc	Total Net Present Value Costs ergy cost : S ditional annual cost : ditional one-time cost :



Pump Performance - Additional Data Quote number Customer Customer reference Size : LVI 050-250 Item number : Default Stages • 1 Service Speed : 2875 rpm Quantity Intellicode : 1 Date last saved : 16 Nov 2023 6:21 PM **Performance Data** Stage, Speed and Solids Limits Head, maximum diameter, rated flow : 79.66 m Stages, maximum Head, minimum diameter, rated flow : 41.23 m Stages, minimum : 1 Head max. : 93.05 m Pump speed limit, maximum : 3600 rpm Efficiency adjustment factor, total : 1.00 Pump speed limit, minimum : 950 rpm Power adjustment, total : 0.00 kW Curve speed limit, maximum : 3600 rpm Head adjustment factor, total : 1.00 Curve speed limit, minimum : 950 rpm Flow adjustment factor, total : 1.00 Variable speed limit, maximum : -Flow adjustment factor, efficiency only (shift Variable speed limit, minimum 1 00 ٠ _ BEP) Solids size limit : 0.0 mm Flow adjustment factor, end-of-curve only, total : 1.00 **Typical Driver Data** MCSF adjustment factor : 1.00 Driver speed, full load : 2875 rpm NPSHR adjustment factor, total : 1.00 Driver speed, rated load : 2875 rpm NPSHR slope correction factor : 1.00 Driver efficiency, 100% load : N/A User applied performance adjustment comments: Driver efficiency, 75% load : N/A NPSH margin dictated by pump supplier : 0.00 m Driver efficiency, 50% load : N/A NPSH margin dictated by user · 0 00 m NPSH margin used (added to 'required' values) : 0.00 m **Mechanical Limits** Torque, rated power, rated speed : 7.66 kW/1000 rpm Torque, maximum power, rated speed : 9.41 kW/1000 rpm Torque, driver power, full load speed : 10.37 kW/1000 rpm Torque, driver power, rated speed : 10.37 kW/1000 rpm Torque, pump shaft limit Radial load, worst case : -Radial load limit : -Impeller peripheral speed, rated Impeller peripheral speed limit Various Performance Data Head (m) Efficiency (%) NPSHr (m) Flow (m3/h) Power (kW) Shutoff, rated diameter 0.00 93.05 12.96 93.05 Shutoff, maximum diameter 0.00 12.96 MCSF Rated flow, minimum diameter 60.59 41.23 55.94 12.15 Rated flow, maximum diameter 60.59 79.66 59.60 22.03 BEP flow, rated diameter 60.59 79.66 59.60 3.48 22.03 70.40 4.90 120% rated flow, rated diameter 72.71 56.68 24.56 7.98 End of curve, rated diameter 89.40 46.32 41.64 27.05 70.49 28.76 4.59 12.64 End of curve, minimum diameter 43.63 End of curve, maximum diameter 89.40 46.32 41.64 7.98 27.05 93.05 Maximum value, rated diameter 59.60 27.05 Maximum value, maximum diameter 59.60 27.05 System differential pressure @ Density, rated @ Density, max Differential pressure, rated flow, rated diameter (bar) 7 80 7 80 Differential pressure, shutoff, rated diameter (bar) 9.11 9.11 Differential pressure, shutoff, maximum diameter (bar) 9.11 9.11 @ Suction @ Suction Discharge pressure @ Suction @ Suction pressure, rated pressure, max pressure, rated pressure, max Discharge pressure, rated flow, rated diameter (bar.g) 7.80 7.80 7.80 7 80 Discharge pressure, shutoff, rated diameter (bar.g) 9.11 9 11 9 11 9 11 Discharge pressure, shutoff, maximum diameter (bar.g) 9.11 9.11 9 11 9 11 Ratios Maximum flow / rated flow, rated diameter : 147.54 % Head rated diameter / head minimum diameter, rated flow : 193.21 %



Pump Performance - Additional Data						
Construction						
Vertical In-Line Pump Classifications	: Standard					