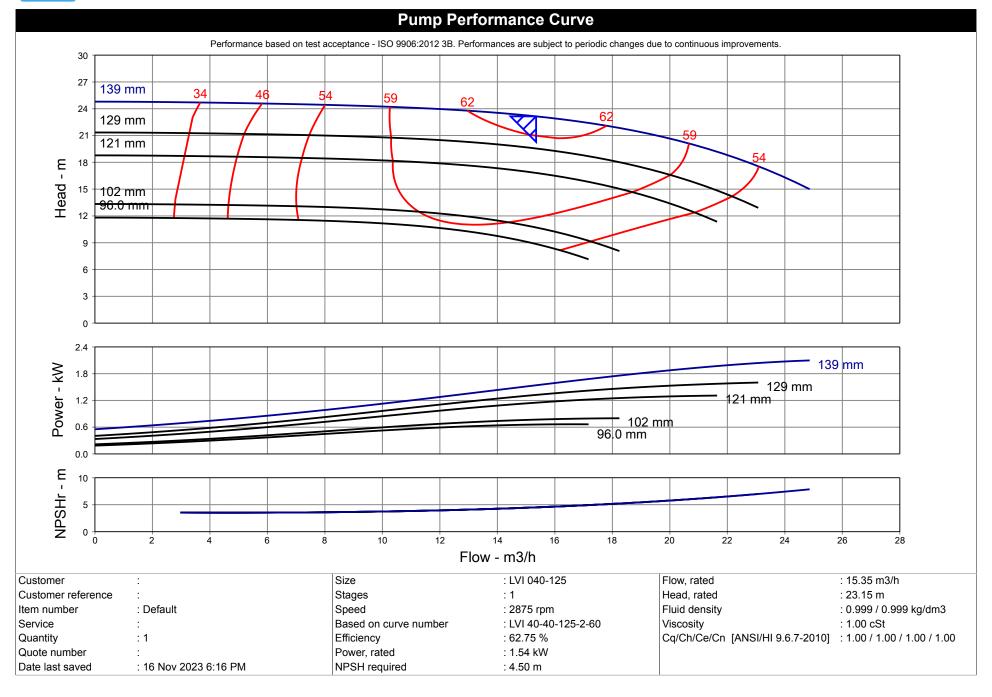
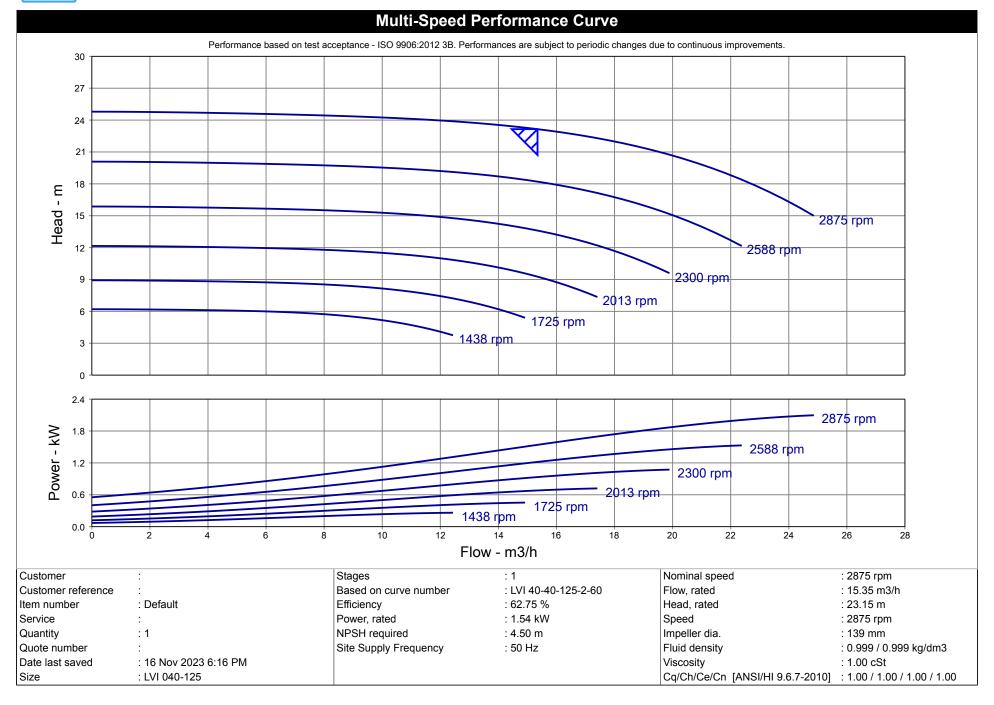


Pump Performance Datasheet Quote number Customer Size : LVI 040-125 Customer reference Item number : Default Stages : 1 Service Based on curve number : LVI 40-40-125-2-60 : 16 Nov 2023 6:16 PM Quantity : 1 Date last saved Operating Conditions Liquid : Water Flow, rated : 15.35 m3/h Liquid type Head, rated (requested) : 23.15 m Additional liquid description Solids diameter, max : 23.15 m Head, rated (actual) : 0.0 mm : 0.00 % Suction pressure, rated / max : 0.00 / 0.00 bar.g Solids concentration, by volume 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 Vapor pressure, rated : 0.00 bar.a Speed criteria : Synchronous Material Speed : 2875 rpm : 139 mm Material selected Impeller dia. : Standard Impeller diameter, maximum : 139 mm Pressure Data Impeller diameter, minimum : 96.0 mm Maximum working pressure : 2.43 bar.g Efficiency : 62.75 % Maximum allowable working pressure : 16.00 bar.g NPSH required / margin required : 4.50 / 0.00 m Maximum allowable suction pressure : 2.50 bar.g nq (imp. eye flow) / S (imp. eye flow) : 18 / 61 Metric units Hydrostatic test pressure : 24.00 bar.g MCSF Driver & Power Data (@Max density) Head max. : 24.79 m Driver sizing specification : Maximum power Head rise to shutoff : 7.10 % Margin over specification : 0.00 % Flow, best eff. point : 15.35 m3/h Service factor : 1.00 Flow ratio, rated / BEP : 100.00 % Power, hydraulic : 0.97 kW Diameter ratio (rated / max) : 100.00 % Power, rated : 1.54 kW Head ratio (rated dia / max dia) : 100.00 % Power, maximum : 2.10 kW Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010] : 1.00 / 1.00 / 1.00 / 1.00 Motor rating : 2.24 kW / 3.00 hp Selection status : Acceptable Performance based on test acceptance - ISO 9906:2012 3B. Performances are subject to periodic changes due to continuous improvements. 30 27 139 mm 34 46 59 62 24 129 mm 21 121 mm 18 Head -102 mm 15 12 9 6 3 2.4 Power - kW 139 mm 1.8 129 mm 121 mm 1.2 102 mm 0.6 96.0 mm 0.0 NPSHr - m 10 5 0 Ŕ 10 14 20 28 Flow - m3/h











Life Cycle Cost Datasheet

Customer : Quantity :1 Size :LVI 040-125

Customer reference : Quote number : Stages :1

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

Service :

Load Profiles and Energy Costs

						
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)	23.15	-	-	-	-	-
Efficiency (%)	62.75	-	-	-	-	-
Power, rated (kW)	1.54	-	-	-	-	-
Motor efficiency (%)	100.00	-	-	-	-	-
Drive/gear efficiency (%)	100.00	-	-	-	-	-
System curve		-	-	-	-	-
Energy, total (kWh)	269,819.0	-	-	-	-	269,819.0
Energy cost, per year	\$ 1,349.09	-	-	-	-	\$ 1,349.09
Energy cost, total present value	\$ 20,234.24	-	-	-	-	\$ 20,234.24

Life Cycle Cost Calculation

Additional Annual Costs		Additional One-time Costs, Year 0			Interest and Inflation Rates		
:	0.00	Initial investment cost	:	0.00	Interest rate, %	:	6.00
:	0.00	Installation and commissioning cost	:	0.00	Inflation rate, %	:	3.00
:	0.00	Other one-time costs, year 0 : 0.00		Total Net Present Value Costs			
:	0.00	Additional One-time Costs	s, Year 20		Total energy cost	:	\$ 20,234.24
:	0.00	Decommissioning cost	:	0.00	Total additional annual cost	:	\$ 0.00
:	0.00	Other one-time costs, year 20	:	0.00	Total additional one-time cost	:	\$ 0.00
:	\$ 0.00	Total, present value	:	\$ 0.00	Total life cycle cost	:	\$ 20,234.24
	: : : : : : : : : : : : : : : : : : :	: 0.00 : 0.00 : 0.00 : 0.00 : 0.00	: 0.00 Initial investment cost : 0.00 Installation and commissioning cost : 0.00 Other one-time costs, year 0	: 0.00 Initial investment cost : 0.00 Installation and commissioning cost : 0.00 Other one-time costs, year 0 : 0.00 Additional One-time Costs, Year 20 : 0.00 Decommissioning cost : 0.00 Other one-time costs, year 20 : 0.00 Other one-time costs, year 20 :	: 0.00 Initial investment cost : 0.00 : 0.00 Installation and commissioning cost : 0.00 : 0.00 Other one-time costs, year 0 : 0.00 : 0.00 Additional One-time Costs, Year 20 : 0.00 Decommissioning cost : 0.00 : 0.00 Other one-time costs, year 20 : 0.00	: 0.00 Initial investment cost : 0.00 Interest rate, % : 0.00 Installation and commissioning cost : 0.00 Inflation rate, % : 0.00 Other one-time costs, year 0 : 0.00 Total Net Present : 0.00 Additional One-time Costs, Year 20 Total energy cost : 0.00 Decommissioning cost : 0.00 Total additional annual cost : 0.00 Other one-time costs, year 20 : 0.00 Total additional one-time cost	: 0.00 Initial investment cost : 0.00 Interest rate, % : : 0.00 Installation and commissioning cost : 0.00 Inflation rate, % : : 0.00 Other one-time costs, year 0 : 0.00 Total Net Present Value Costs : 0.00 Additional One-time Costs, Year 20 Total energy cost : : 0.00 Decommissioning cost : 0.00 Total additional annual cost : : 0.00 Other one-time costs, year 20 : 0.00 Total additional one-time cost :



Pump Performance - Additional Data Quote number Customer Customer reference Size : LVI 040-125 Item number : Default Stages • 1 Service Speed : 2875 rpm Quantity Intellicode : 1 Date last saved : 16 Nov 2023 6:16 PM **Performance Data** Stage, Speed and Solids Limits Head, maximum diameter, rated flow : 23.15 m Stages, maximum Head, minimum diameter, rated flow : 8.86 m Stages, minimum : 1 Head max. : 24.79 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 : 0.54 kW/1000 rpm Torque, maximum power, rated speed : 0.73 kW/1000 rpm Torque, driver power, full load speed : 0.78 kW/1000 rpm Torque, driver power, rated speed : 0.78 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 (%) Power (kW) Flow (m3/h) NPSHr (m) Shutoff, rated diameter 0.00 24.79 0.55 24.79 0.55 Shutoff, maximum diameter 0.00 MCSF Rated flow, minimum diameter 15.35 8.86 56.09 0.66 Rated flow, maximum diameter 15.35 23.15 62.75 1.54 BEP flow, rated diameter 15.35 23.15 62.75 4.50 1.54 5.27 120% rated flow, rated diameter 18.42 21.75 61.56 1.77 End of curve, rated diameter 24.86 14.99 48.36 7.85 2.10 7.15 4.93 0.66 End of curve, minimum diameter 17.17 50.28 End of curve, maximum diameter 24.86 14.99 48.36 7.85 2.10 24.79 Maximum value, rated diameter 62.75 2.10 Maximum value, maximum diameter 62.75 2 10 System differential pressure @ Density, rated @ Density, max Differential pressure, rated flow, rated diameter (bar) 2 27 2 27 Differential pressure, shutoff, rated diameter (bar) 2.43 2.43 Differential pressure, shutoff, maximum diameter (bar) 2.43 2.43 @ Suction @ Suction Discharge pressure @ Suction @ Suction pressure, rated pressure, max pressure, rated pressure, max Discharge pressure, rated flow, rated diameter (bar.g) 2.27 Discharge pressure, shutoff, rated diameter (bar.g) 2.43 2.43 2.43 2 43 2.43 Discharge pressure, shutoff, maximum diameter (bar.g) 2 43 2 43 2 43 Ratios Maximum flow / rated flow, rated diameter : 162.00 % Head rated diameter / head minimum diameter, rated flow : 261.28 %



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