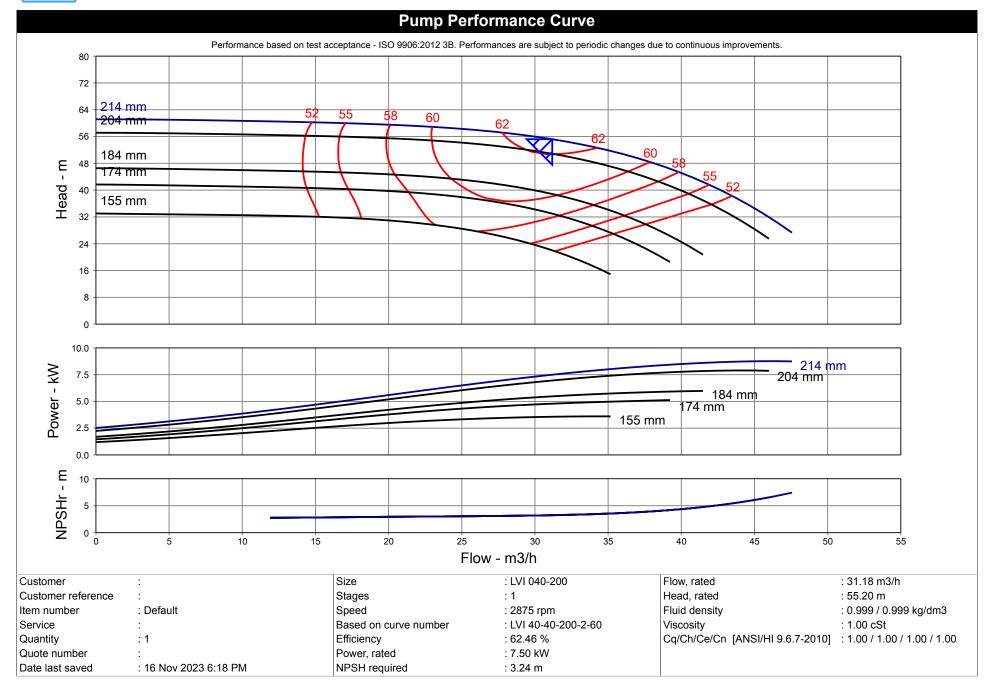
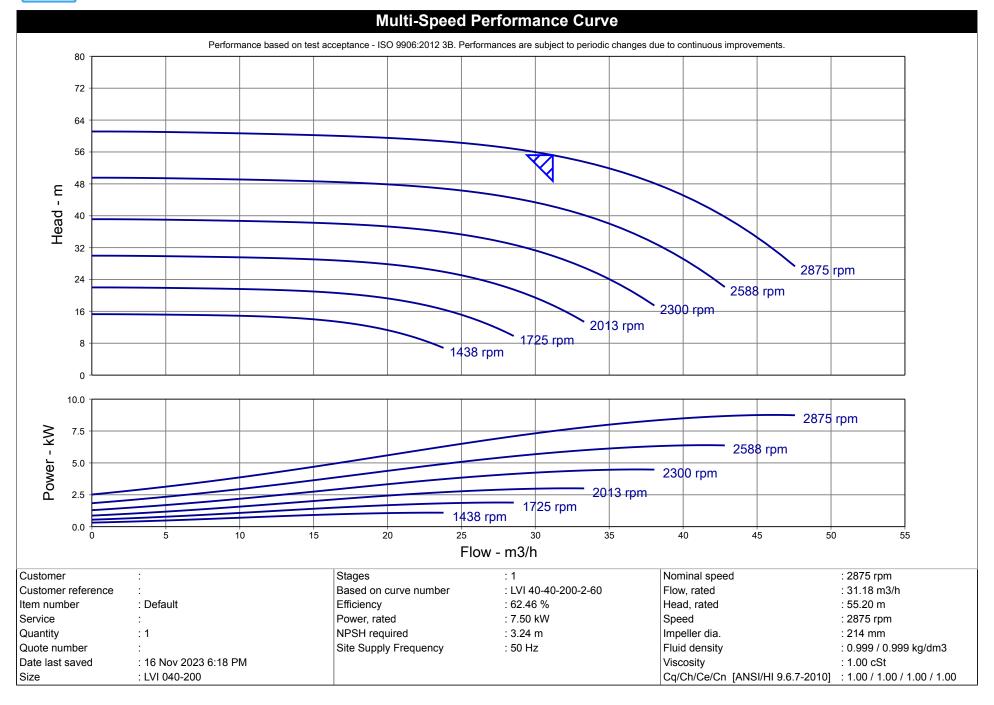


Pump Performance Datasheet Quote number Customer Size : LVI 040-200 Customer reference Item number : Default Stages : 1 : LVI 40-40-200-2-60 Service Based on curve number : 16 Nov 2023 6:18 PM Quantity : 1 Date last saved Operating Conditions Liquid : Water Flow, rated : 31.18 m3/h Liquid type Head, rated (requested) : 55.20 m Additional liquid description Head, rated (actual) Solids diameter, max : 55.20 m : 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 Vapor pressure, rated : 0.00 bar.a Speed criteria : Synchronous Material Speed : 2875 rpm : 214 mm Material selected Impeller dia. : Standard Impeller diameter, maximum : 214 mm Pressure Data Impeller diameter, minimum : 155 mm Maximum working pressure : 5.99 bar.g Efficiency : 62.46 % Maximum allowable working pressure : 16.00 bar.g NPSH required / margin required : 3.24 / 0.00 m Maximum allowable suction pressure : 2.50 bar.g nq (imp. eye flow) / S (imp. eye flow) : 13 / 111 Metric units Hydrostatic test pressure : 24.00 bar.g MCSF Driver & Power Data (@Max density) Head max. : 61.14 m Driver sizing specification : Maximum power Head rise to shutoff : 10.75 % Margin over specification : 0.00 % Flow, best eff. point : 31.18 m3/h Service factor : 1.00 Flow ratio, rated / BEP : 100.00 % Power, hydraulic : 4.68 kW Diameter ratio (rated / max) : 100.00 % Power, rated : 7.50 kW Head ratio (rated dia / max dia) : 100.00 % Power, maximum : 8.76 kW Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010] : 1.00 / 1.00 / 1.00 / 1.00 Motor rating : 9.32 kW / 12.50 hp Selection status : Acceptable Performance based on test acceptance - ISO 9906:2012 3B. Performances are subject to periodic changes due to continuous improvements. 80 72 214 mm 64 204 mm 60 62 56 184 mm 48 174 mm 40 155 mm 32 24 16 8 O 10.0 Power - kW 214 mm 7.5 204 mm 184 mm 5.0 174 mm 155 mm 2.5 0.0 NPSHr - m 10 5 0 10 15 20 35 40 45 50 55 Flow - m3/h









: LVI 040-200



Life Cycle Cost Datasheet

Customer : Quantity : 1 Size

Quote number : Stages : 1

Item number : Default Date last saved : 16 Nov 2023 6:18 PM Speed : 2875

Service :

Customer reference

Load Profiles and Energy Costs

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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)	60.19	-	-	-	-	-
Efficiency (%)	52.84	-	-	-	-	-
Power, rated (kW)	4.76	-	-	-	-	-
Motor efficiency (%)	100.00	-	-	-	-	-
Drive/gear efficiency (%)	100.00	-	-	-	-	-
System curve		-	-	-	-	-
Energy, total (kWh)	833,230.7	-	-	-	-	833,230.7
Energy cost, per year	\$ 4,166.15	-	-	-	-	\$ 4,166.15
Energy cost, total present value	\$ 62,485.55	-	-	-	-	\$ 62,485.55

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 Cost	s, Year 20		Total energy cost	:	\$ 62,485.55
:	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	:	\$ 62,485.55
	ial Costs : : : :	: 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								
Customer :			Quote number :					
Customer reference :					: LVI 040-200			
Item number : Default					:1			
Service :			Stages Speed		: 2875 rpm			
Quantity : 1			Intellicode					
Quantity . 1			Date last sa	ved	: 16 Nov 2023 6:1	8 PM		
Performance Data			Bato last sa		ed and Solids Limits	-		
Head, maximum diameter, rated flow : 55.20 m			Stages, maximum : 1					
Head, minimum diameter, rated flow	: 22.03 m		Stages, min	imum	: 1			
Head max.	: 61.14 m		_	d limit, maximum	: 3600 rpm			
Efficiency adjustment factor, total	: 1.00		1	d limit, minimum	: 950) rpm		
Power adjustment, total	: 0.00 kW		Curve speed	d limit, maximum	: 3600 rpm			
Head adjustment factor, total	: 1.00		Curve speed	d limit, minimum	: 950 rpm			
Flow adjustment factor, total	: 1.00		Variable spe	ed limit, maximum	:-			
Flow adjustment factor, efficiency only (shift	: 1.00		Variable speed limit, minimum :-					
BEP)			Solids size limit : 0.0 mm			mm		
Flow adjustment factor, end-of-curve only, total	: 1.00			Турі	cal Driver Data			
MCSF adjustment factor	: 1.00	Driver speed, full load		d, full load	: 2875 rpm			
NPSHR adjustment factor, total	: 1.00		Driver speed	d, rated load	: 287	: 2875 rpm		
NPSHR slope correction factor	: 1.00		Driver efficie	ency, 100% load	: N/A	: N/A		
User applied performance adjustment comments	3 :		Driver efficie	ency, 75% load	: N/A	\		
NPSH margin dictated by pump supplier	: 0.00 m		Driver efficie	ency, 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	: 2.61 kW/1000	rpm						
Torque, maximum power, rated speed	: 3.05 kW/1000	rpm						
Torque, driver power, full load speed	: 3.24 kW/1000	rpm						
Torque, driver power, rated speed	: 3.24 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	Flow (m3/h)	ŀ	Head (m)	Efficiency (%)	NPSHr (m)	Power (kW)		
Shutoff, rated diameter	0.00		61.14	-	-	2.52		
Shutoff, maximum diameter	0.00		61.14	-	-	2.52		
MCSF	-		-	-	-	-		
Rated flow, minimum diameter	31.18		22.03	52.38	-	3.57		
Rated flow, maximum diameter	31.18		55.20	62.46	-	7.50		
BEP flow, rated diameter	31.18		55.20	62.46	3.24	7.50		
120% rated flow, rated diameter	37.42		49.02	60.36	3.85	8.27		
End of curve, rated diameter	47.56		27.29	40.41	7.42	8.74		
End of curve, minimum diameter	35.17		14.89	39.55	3.55	3.60		
End of curve, maximum diameter	47.56		27.29	40.41	7.42	8.74		
Maximum value, rated diameter	-		61.14	62.46	-	8.76		
Maximum value, maximum diameter	-		-	62.46	-	8.76		
System differential pressure			@ Density, rated		@ Density, max			
Differential pressure, rated flow, rated diameter (bar)			5.41		5.41			
Differential pressure, shutoff, rated diameter (bar)			5.99		5.99			
Differential pressure, shutoff, maximum diameter (bar)			5.99		5.9			
Discharge pressure	@ Sud pressure		@ Suction pressure, max	@ Suction pressure, rated	@ Suction pressure, max			
Discharge pressure, rated flow, rated diameter (bar.g)			i, rateu	5.41	5.41	5.41		
Discharge pressure, shutoff, rated diameter (bar.	0,	5.9		5.99	5.99	5.99		
Discharge pressure, shutoff, maximum diameter	· .				5.99	5.99		
Discharge pressure, shutoff, maximum diameter (bar.g) 5.99 5.99 5.99 5.99								
Maximum flow / rated flow, rated diameter : 152.54 % Head rated diameter / head minimum diameter, rated flow : 250.59 %								



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