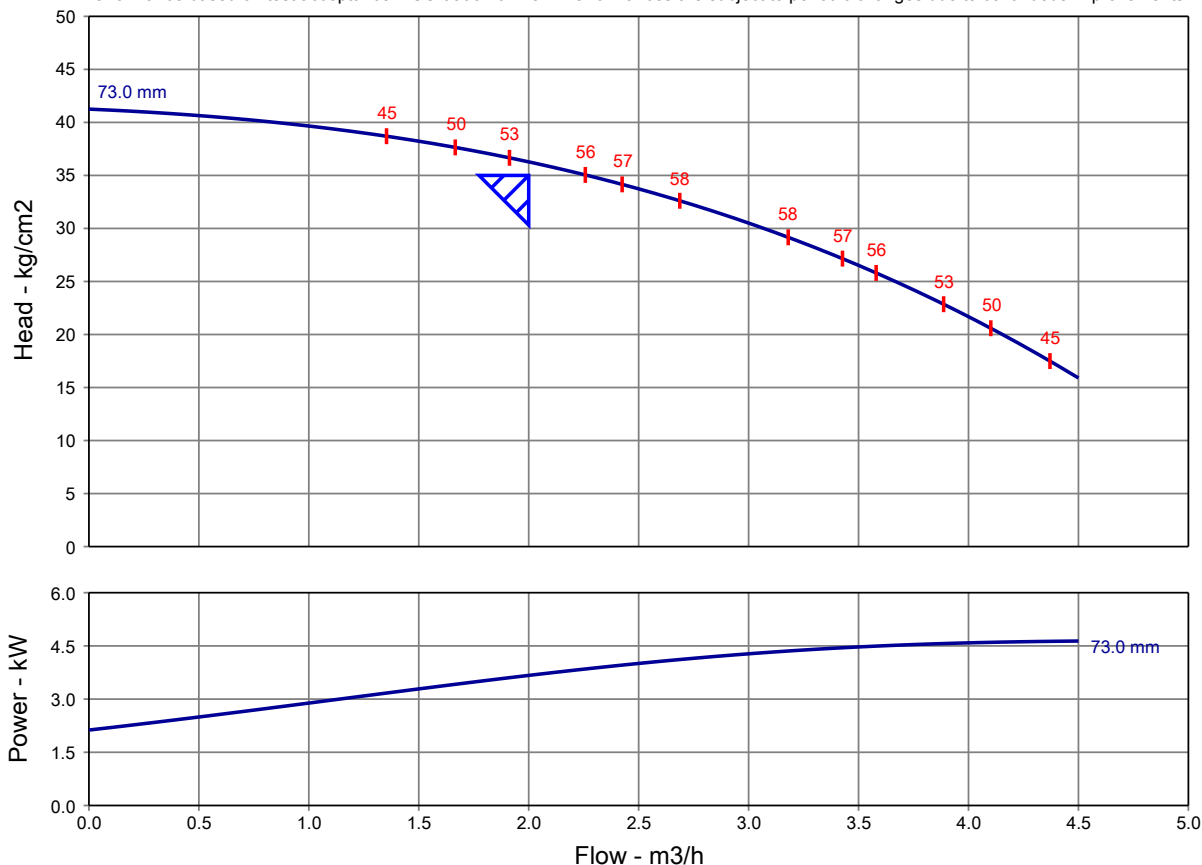


Pump Performance Datasheet

Customer	:	Quote number	: 456323
Customer reference	:	Size	: LCRNH3-31 + LCRN3-31
Item number	: 2 m3/hr @ 35 Kg/cm2	Stages	: 31
Service	: HPP	Based on curve number	: LCRNH3-31-2-50 + LCRN3-31-2-50
Quantity	: 1	Date last saved	: 22 Apr 2021 6:04 PM

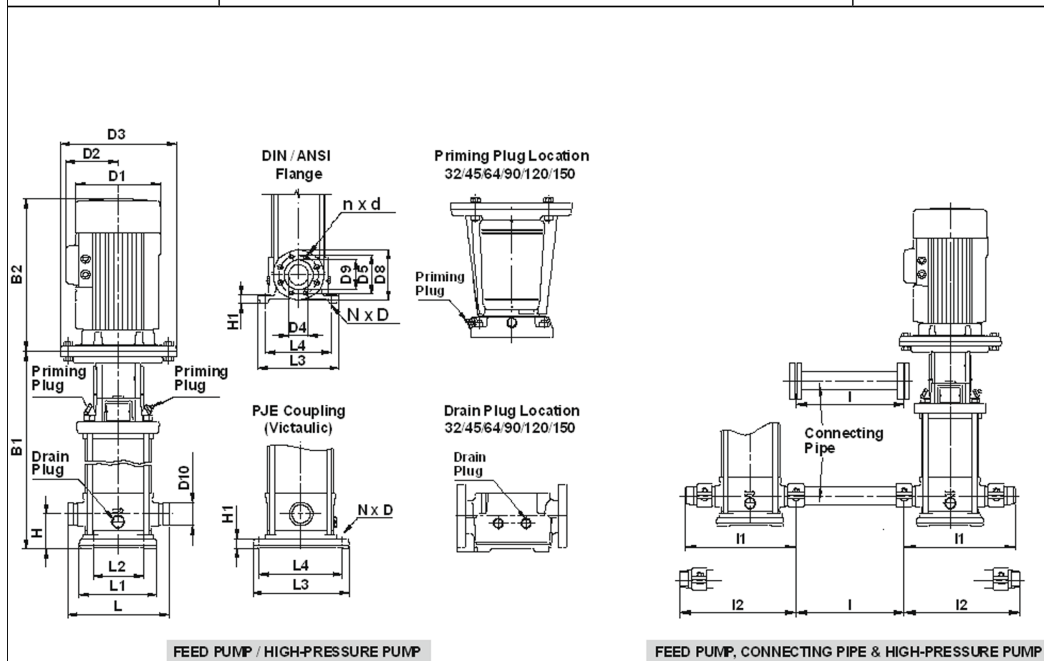
Operating Conditions		Liquid	
Flow, rated	: 2.00 m3/h	Liquid type	: Water
Differential head / pressure, rated (requested)	: 35.00 kg/cm2	Additional liquid description	:
Differential head / pressure, rated (actual)	: 36.28 kg/cm2	Solids diameter, max	: 0.0 mm
Suction pressure, rated / max	: 0.00 / 0.00 bar.g	Solids concentration, by volume	: 0.00 %
NPSH available, rated	: Ample	Temperature, max	: 20.00 deg C
Site Supply Frequency	: 50 Hz	Fluid density, rated / max	: 0.999 / 0.999 kg/dm3
Performance		Viscosity, rated	: 1.00 cSt
Speed criteria	: Synchronous	Vapor pressure, rated	: 0.00 bar.a
Speed, rated	: 2900 rpm	Material	
Impeller diameter, rated	: 73.0 mm	Material selected	: Standard
Impeller diameter, maximum	: 73.0 mm	Pressure Data	
Impeller diameter, minimum	: 73.0 mm	Maximum working pressure	: 40.46 bar.g
Efficiency	: 53.89 %	Maximum allowable working pressure	: 50.00 bar.g
NPSH required / margin required	: - / 0.00 m	Maximum allowable suction pressure	: 25.00 bar.g
nq (imp. eye flow) / S (imp. eye flow)	: 15 / - Metric units	Hydrostatic test pressure	: 75.00 bar.g
MCSF	: -	Driver & Power Data (@Max density)	
Head, maximum, rated diameter	: 41.25 kg/cm2	Driver sizing specification	: Maximum power
Head rise to shutoff	: 13.71 %	Margin over specification	: 0.00 %
Flow, best eff. point	: 2.94 m3/h	Service factor	: 1.00
Flow ratio, rated / BEP	: 68.12 %	Power, hydraulic	: 1.98 kW
Diameter ratio (rated / max)	: 100.00 %	Power, rated	: 3.67 kW
Head ratio (rated dia / max dia)	: 100.00 %	Power, maximum, rated diameter	: 4.64 kW
Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00	Minimum recommended motor rating	: 5.97 kW / 8.00 hp
Selection status	: Acceptable		

Performance based on test acceptance - ISO 9906:2012 3B. Performances are subject to periodic changes due to continuous improvements.



General Arrangement Drawing

Customer:		Quote number:	456323
Customer reference:		Size:	LCRNH3-31 + LCRN3-31
Item number:	2 m3/hr @ 35 Kg/cm2	Stages:	31
Service:	HPP	Quoted by (SO / SE):	indmh@lubipumps.com
Quantity:	1	Date last saved:	22 Apr 2021 6:04 PM



Operating Conditions			
Flow:	2.00 m3/h	Liquid temperature:	20.00 deg C
Head:	35.00 kg/cm2	Fluid density:	0.999 kg/dm3
Liquid type:	Water	Viscosity:	1.00 cSt
Pump Data			
Pump system:	Two pump system (Feed pump + High-Pressure Pump)		
Version:	S.S AISI 316	Seal material:	Cartridge-Carbon/SiC/SS316/FKM
Bearing material:	Ceramic/Tungsten Carbide	Rubber parts:	NBR (Nitrile)
Motor Data			
Motor manufacturer:	Lubi	Frequency:	50 Hz
HP/kW:	5.97 kW	Encl / Ins class:	IP 55 / F
RPM:	2900 rpm	Efficiency class:	IE2
Phase:	3	S.F:	1
Voltage:	380-415	Mounting:	IEC
Pipework Connecion			
Suc. & Del. size:	1¼" (32 mm)		
Connection type:	Grooved End Connection	Flange type:	PJE Coupling
Certification Content			
Project name/Location:	Default		
Consulting Engineer:			
Drawn by:	K P	Approved by:	N P
Checked by:	P M	Revision:	00

Notes:

All dimensions are in mm unless otherwise noted.

All weights are in kg

All volumes are in m3

Dimensions and Weights																																	
B1 (High Pressure Pump)	B1+B2 (High Pressure Pump)	D1 (High Pressure Pump)	D2 (High Pressure Pump)	D3 (High Pressure Pump)	B1 (Feed Pump)	B1+B2 (Feed Pump)	D1 (Feed Pump)	D2 (Feed Pump)	D3 (Feed Pump)	H	L	L1	L2	H1	L3	L4	D4	D5	D8	D9	D10	n	d	N	D	Priming Plug Size	Drain Plug Size	I	I1	I2	Net Weight	Gross Weight	Volume
812	1,116	194	140	-	812	1,116	194	140	-	50.0	210	150	100	22.0	210	180	-	-	-	-	42.2	-	-	4 nos.	13.0	G ½	G ½	250	246	266	94.0	152.0	0.599