LOWARA
a xylem brand

Technical Data

Customer	Date 1/11/2019
Contact	Project
Phone number	Project no.
Email	

5SV16T022T

Operating data

Pumpe type	Single head pump			Fluid			Water
No. of pumps	/ Reserve	1	/ 0	Operating temperature t A		°C	4
Nominal flow		m³/h	0	pH-value at t A			7
Nominal head		m	0	Density at t A		kg/m³	1000
Static head		m	0	Kin. viscosity at t A		mm²/s	1.569
Inlet pressure		kPa	0	Vapor pressure at t A		kPa	100
Environmental temperature		°C	20	Solids			0
Available system NPSH		m	0	Altitude		m	0

Pump data

Make	Lowara				Nominal	m³/h	( )
Speed		rpm	2900	Flow	Max-	m³/h	8.5
Number of stages			16		Min-	m³/h	
Max. casing pressure		kPa			Nominal	m	
Max. working pressure		kPa	1181.7	Head	at Qmax	m	51.1
Head H(Q=0)		m	120		at Qmin	m	120.5
Weight		kg	34	Shaft power		kW	( )
	Max.	mm	76	Max. shaft power		kW	2.2
Impeller R	designed	mm	76	Efficiency		%	
	Min.	mm	76	NPSH 3%		m	

Pump Materials

Pump body	Stainless steel / AISI 304
IMPELLER	Stainless steel / AISI 304
DIFFUSER	Stainless steel / AISI 304
Outer sleeve	Stainless steel / AISI 304
SHAFT	Stainless steel / AISI 304
ADAPTER	Cast iron
Base	Aluminium
COUPLING	Aluminium
SEAL HOUSING	Stainless steel / AISI 304
Coupling protection	Stainless steel / AISI 304
Shaft sleeve and bushing	Tungsten carbide
Fill / drain plugs	Stainless steel / AISI 304
Tie rods	Galvanized steel
WEAR RING	Technopolymer PPS

Shaft Seal

e-SV Mechanical seal	Roten
e-SV - Uniten (-30 / +120 °C)	
1 - Rotating part	Silicon Carbide
2 - Stationary part	Resin impregnated carbon
3 - Elastomers	EPDM
4 - Springs	AISI 316
5 - Other components	AISI 316

Motor data

Manufacturer	Lowara	Electric voltage	380 V	Speed	2900 rpm	Insulation class	155 (F)
Specific design	IE3 Three phase surface motor (e-SV)			Frame size	90	Colour	RAL 5010
Type	PLM90B14/322 E3 (380-415/660-690V)						
Rated power	2.2 kW	Degree of protection	IP55				
Electric current	4.57 A						

Remarks:

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Tender Hydraulic

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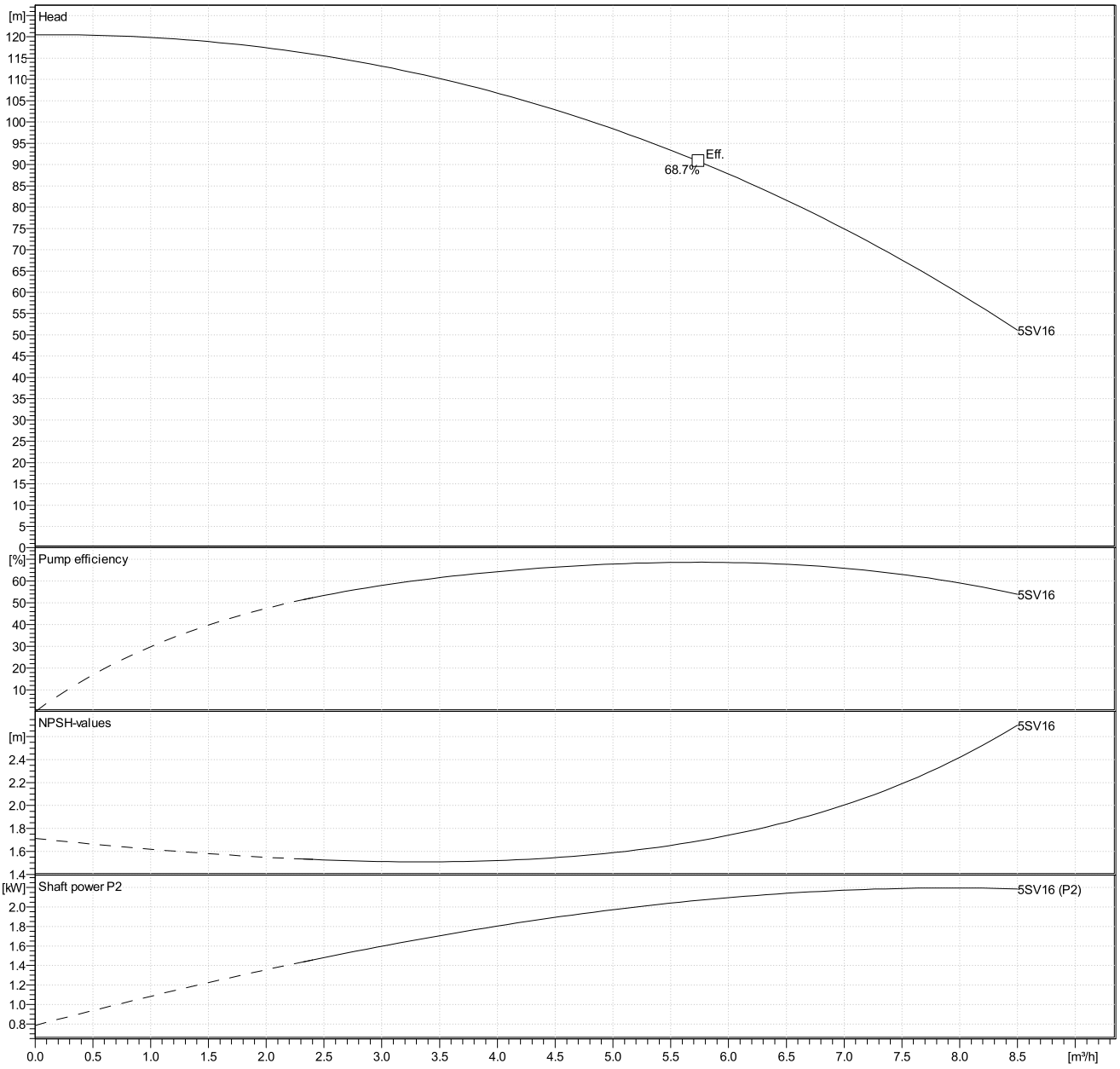
Hydraulic data

Operating Data Specification		Hydraulic data (duty point)		Impeller design	
Flow	0 m³/h	Flow		Impeller R	76 mm
Head	0 m	Head		Frequency	50 Hz
Static head	0 m	MEI >=0,7		Speed	2900 rpm

Power datas referced to:
Water [100%] ; 4°C; 1000kg/m³; 1.57mm²/s
Performance according to ISO 9906:2012 – Grade 3B



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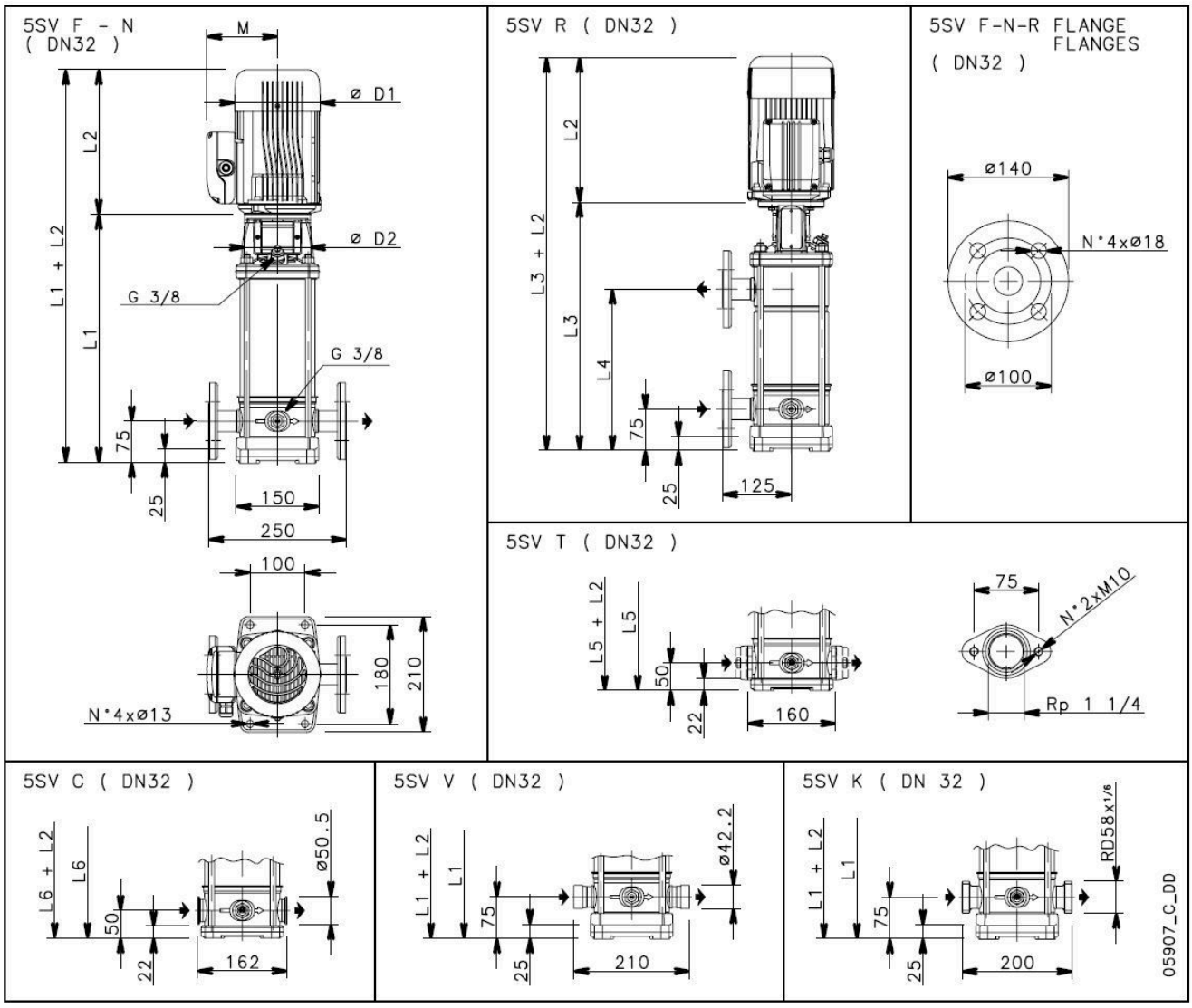
Drawing



Dimensions mm

D1	174					Weight
D2	140					34.2 kg
L1	638					
L2	298					
L3	638					
L4	467					
L5	613					
L6	613					
M	134					

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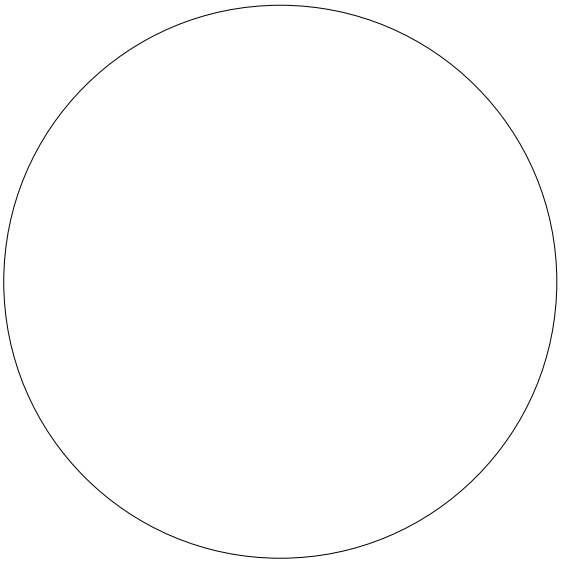
Total lifetime	15	Inflation rate (rate of price increases)	2 %
Annual operating time	5600	Interest rate (for investment)	3 %
Energy cost per kWh	0.00 GBP		
Power input P1			

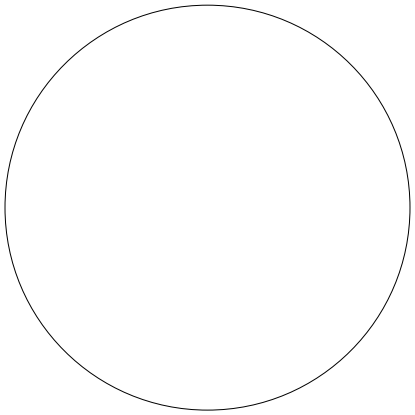
Total costs



GBP

0%	**0.00 GBP**	Energy
0%	**0.00 GBP**	Investment costs
0%	**0.00 GBP**	Installation & commissioning
0%	**0.00 GBP**	Operating cost
0%	**0.00 GBP**	Maintenance & repair
0%	**0.00 GBP**	Downtime
0%	**0.00 GBP**	Environmental
0%	**0.00 GBP**	Decommissioning

First year costs



GBP

0%	**0.00 GBP**	Energy (1st year)
0%	**0.00 GBP**	Investment costs (1st year)
0%	**0.00 GBP**	Installation & commissioning (1st year)
0%	**0.00 GBP**	Operating cost (1st year)
0%	**0.00 GBP**	Maintenance & repair (1st year)
0%	**0.00 GBP**	Downtime (1st year)
0%	**0.00 GBP**	Environmental (1st year)
0%	**0.00 GBP**	Decommissioning (1st year)