LOWARA
a xylem brand

Technical Data

Customer	Date 1/10/2019
Contact	Project
Phone number	Project no.
Email	

15SV11F110T

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	24	
Number of stages			11		Min-	m³/h		
Max. casing pressure		kPa			Nominal	m		
Max. working pressure		kPa	1592.2	Head	at Qmax	m	84.7	
Head H(Q=0)		m	160		at Qmin	m	162.3	
Weight		kg	109	Shaft power		kW	(	)
	Max.	mm	105	Max. shaft power		kW	8.7	
Impeller R	designed	mm	105	Efficiency		%		
	Min.	mm	105	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	2930 rpm	Insulation class	155 (F)
Specific design	IE3 Three phase surface motor (e-SV)			Frame size	160R	Colour	RAL 5010
Type	PLM160RB5/3110 E3 (380-415/660-690V)						
Rated power	11 kW	Degree of protection	IP55				
Electric current	20.6 A						

Remarks:

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Tender Hydraulic

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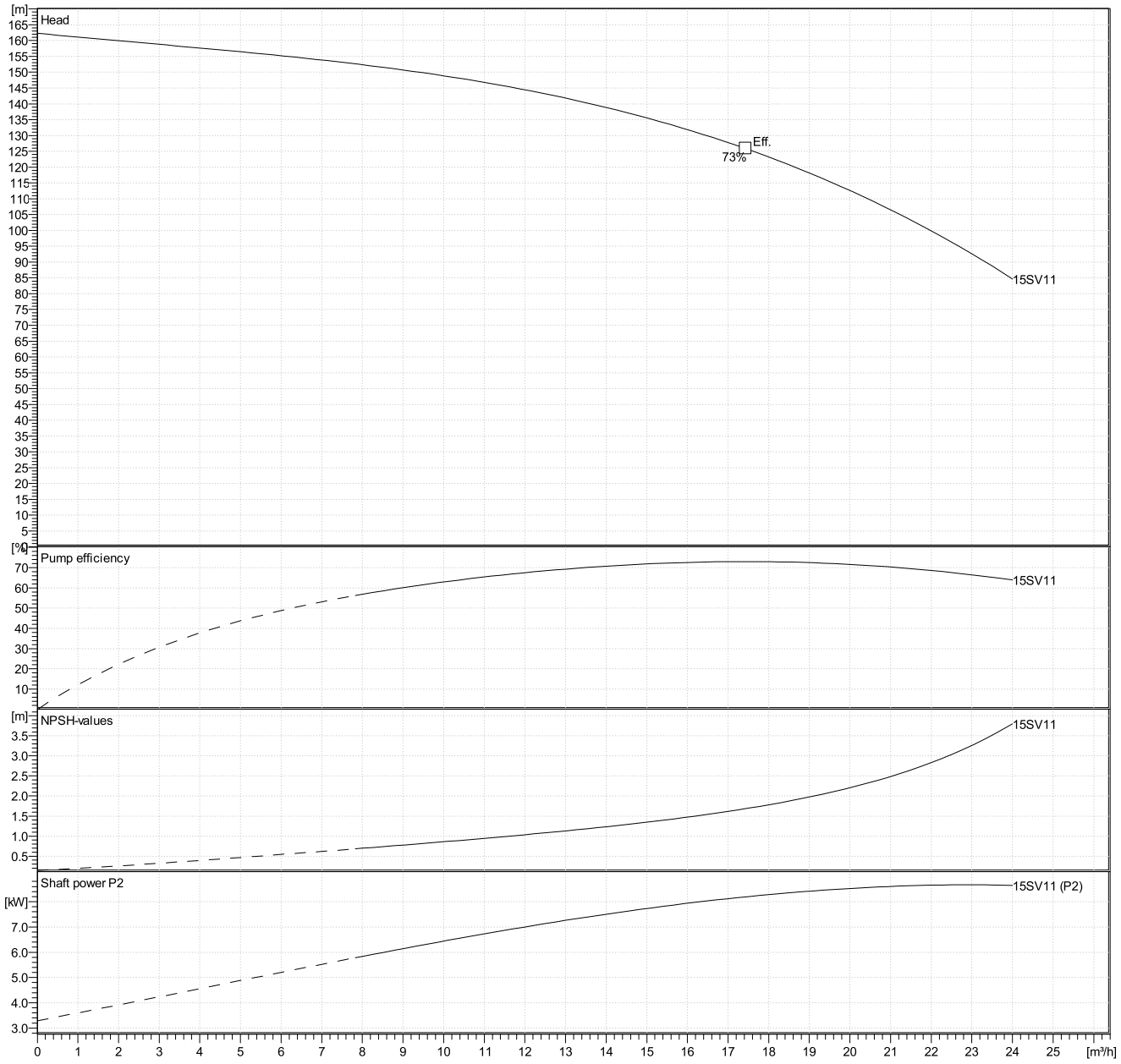
Hydraulic data

Operating Data Specification		Hydraulic data (duty point)		Impeller design	
Flow	0 m³/h	Flow		Impeller R	105 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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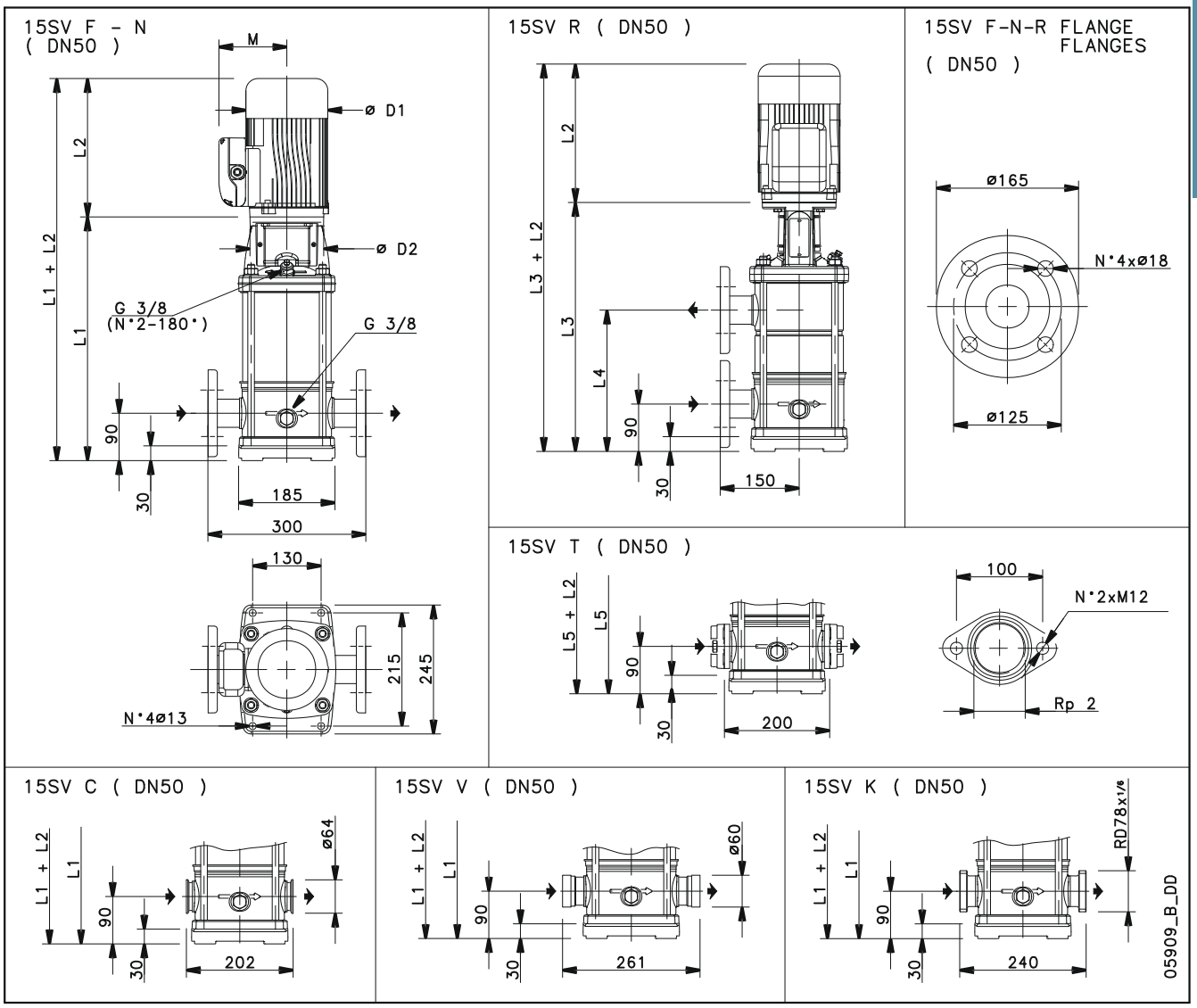
Drawing



Dimensions mm

D1 D2 L1 L2 L3 L4 M	256 350 948 428 948 637 191					Weight 109 kg

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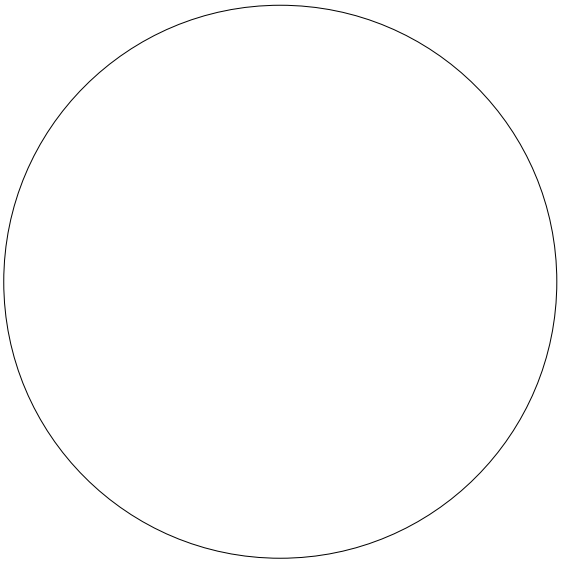
Total lifetime	15	Inflation rate (rate of price increases)	2 %
Annual operating time	5600	Interest rate (for investment)	3 %
Energy cost per kWh	0.00 GBP		
Power input P1			

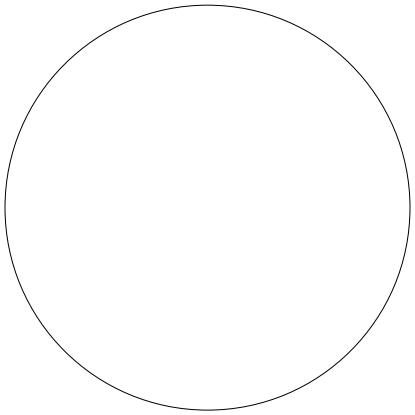
Total costs



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)