LOWARA
a xylem brand

Customer	Date 1/17/2019
Contact	Project
Phone number	Project no.
Email	

Technical Data

3SV13T015T

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	4.4
Number of stages		13			Min-	m³/h	
Max. casing pressure	kPa				Nominal	m	
Max. working pressure	kPa	962.3		Head	at Qmax	m	44.9
Head H(Q=0)	m	98			at Qmin	m	98.1
Weight	kg	27		Shaft power		kW	( )
Max.	mm	79		Max. shaft power		kW	1.2
Impeller R designed	mm	79		Efficiency		%	
Min.	mm	79		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	2895 rpm	Insulation class	155 (F)
Specific design	IE3 Three phase surface motor (e-SV)			Frame size	90R	Colour	RAL 5010
Type	SM90RB14/315 PE (380-415/660-690V)						
Rated power	1.5 kW	Degree of protection	IP55				
Electric current	3.21 A						

Remarks:

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Tender Hydraulic

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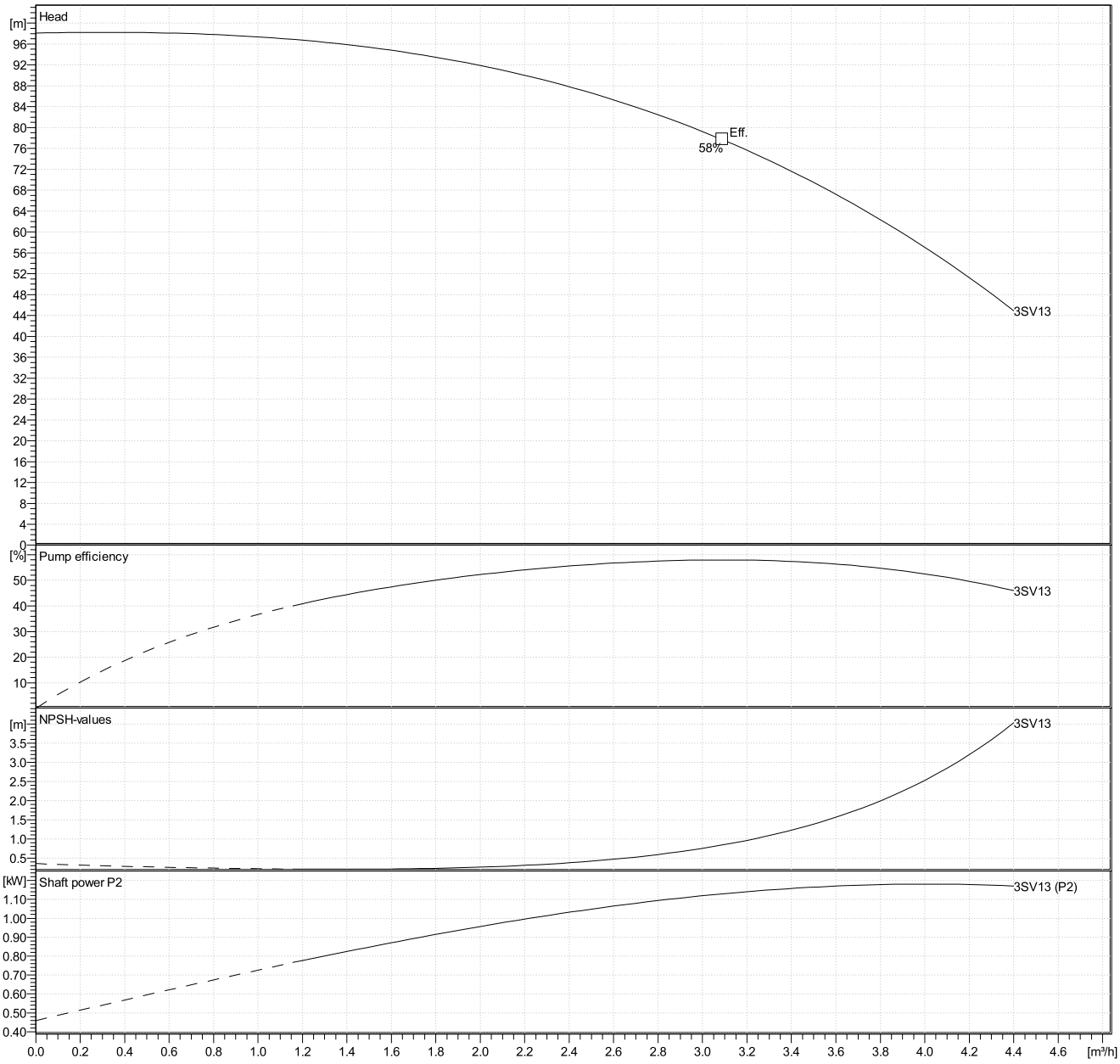
Hydraulic data

Operating Data Specification		Hydraulic data (duty point)		Impeller design	
Flow	0 m³/h	Flow		Impeller R	79 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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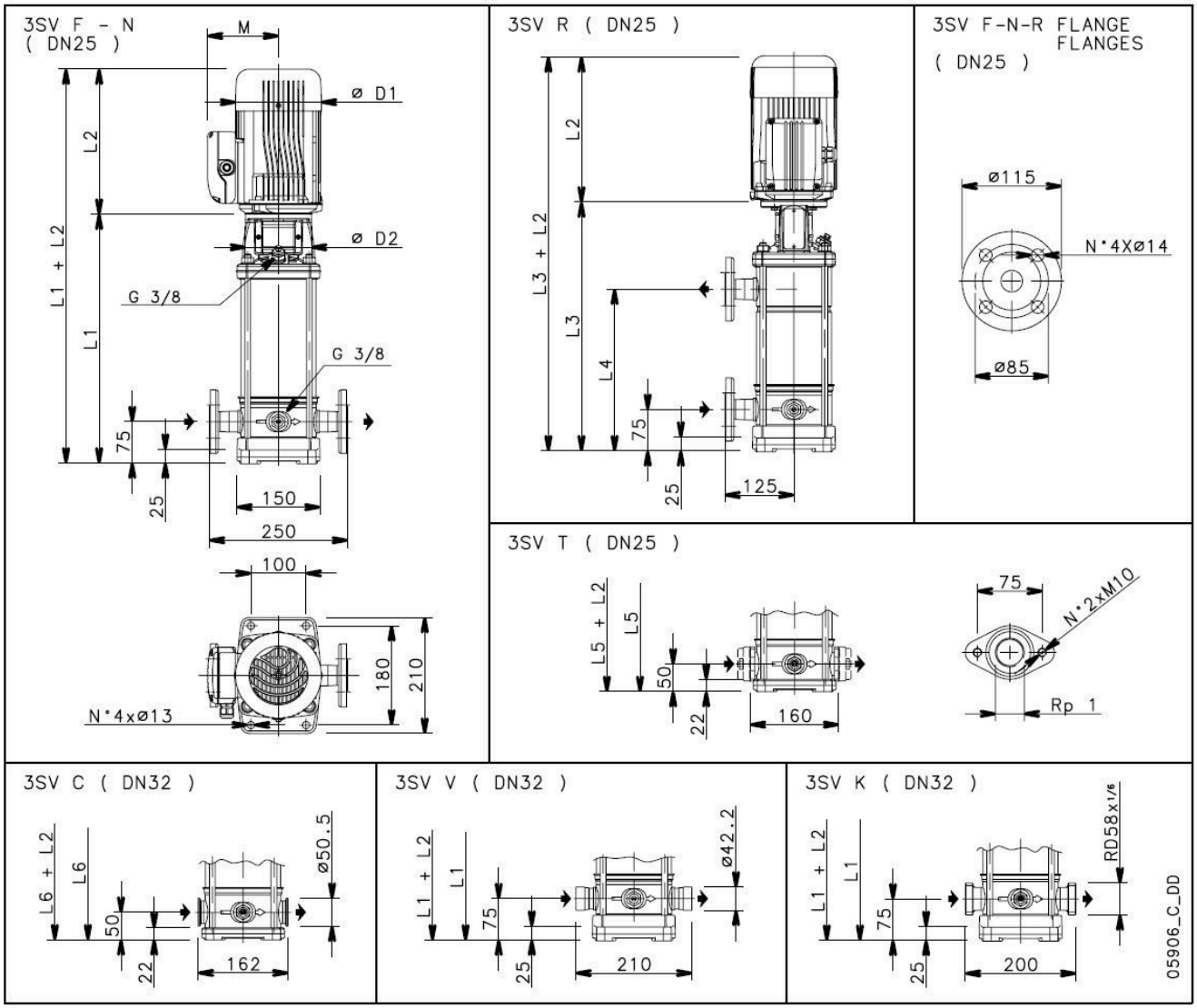
Drawing



Dimensions mm

D1	155					Weight
D2	140					27 kg
L1	498					
L2	263					
L3	498					
L4	327					
L5	473					
L6	473					
M	129					

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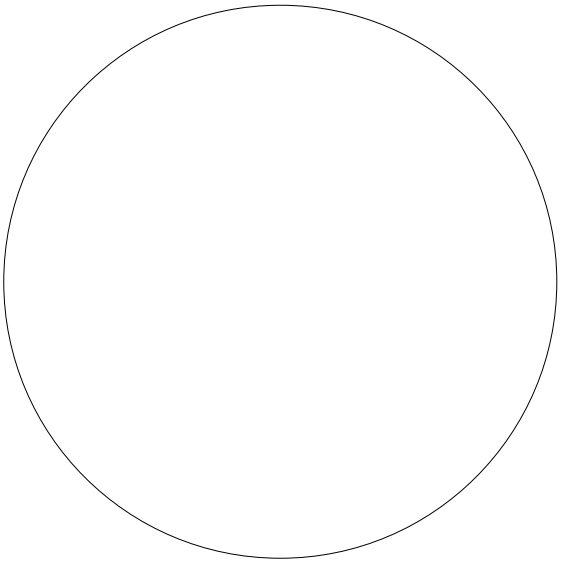
Total lifetime	15	Inflation rate (rate of price increases)	2 %
Annual operating time	5600	Interest rate (for investment)	3 %
Energy cost per kWh	0.00 GBP		
Power input P1			

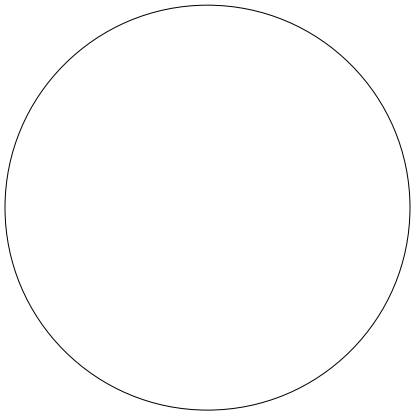
Total costs



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)

Disclaimer: The calculations and the results are based on user input values and general assumptions and provide only estimated costs for the input data. Xylem inc can therefore not guarantee that the estimated savings will actually occur.