

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

10SV03N011T

Operating data

Pump type	Single head pump	Fluid	Water
No. of pumps / Reserve	1 / 0	Operating temperature t A	°C 4
Nominal flow	m ³ /h 0	pH-value at t A	7
Nominal head	m 0	Density at t A	kg/m ³ 1000
Static head	m 0	Kin. viscosity at t A	mm ² /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	m ³ /h ()
Speed	rpm 2900	Flow	Max- m ³ /h 14
Number of stages	3		Min- m ³ /h
Max. casing pressure	kPa	Nominal	m
Max. working pressure	kPa 350.6	Head	at Qmax m 15.9
Head H(Q=0)	m 36		at Qmin m 35.7
Weight	kg 28	Shaft power	kW ()
	Max. mm 96	Max. shaft power	kW 1.1
Impeller R	designed mm 96	Efficiency	%
	Min. mm 96	NPSH 3%	m

Pump Materials

Pump body	Stainless steel / AISI 316L
IMPELLER	Stainless steel / AISI 316L
DIFFUSER	Stainless steel / AISI 316L
Outer sleeve	Stainless steel / AISI 316L
SHAFT	Stainless steel / AISI 316
ADAPTER	Cast iron
Base	Aluminium
COUPLING	Aluminium
SEAL HOUSING	Stainless steel / AISI 316L
Coupling protection	Stainless steel / AISI 304
Shaft sleeve and bushing	Tungsten carbide
Fill / drain plugs	Stainless steel / AISI 316
Tie rods	Stainless steel / AISI 431
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	80	Colour	RAL 5010
Type	SM80B14/311 PE (380-415/660-690V)						
Rated power	1.1 kW	Degree of protection	IP55				
Electric current	2.41 A						

Remarks:

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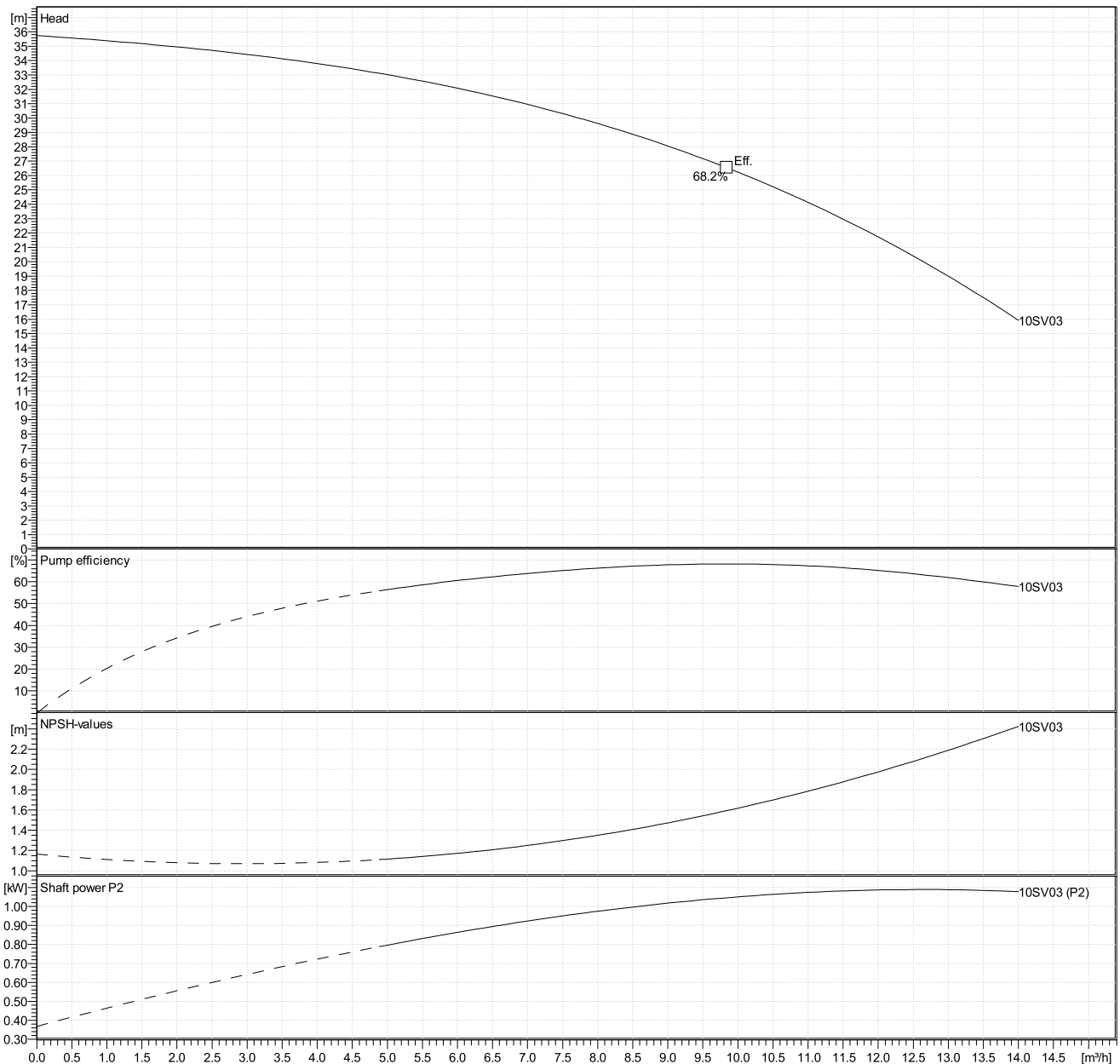
Hydraulic data

Operating Data Specification		Hydraulic data (duty point)		Impeller design	
Flow	0 m ³ /h	Flow		Impeller R	96 mm
Head	0 m	Head		Frequency	50 Hz
Static head	0 m	MEI >=0,7		Speed	2900 rpm

Power datas referred to:

Water [100%] ; 4°C; 1000kg/m³; 1.57mm²/s

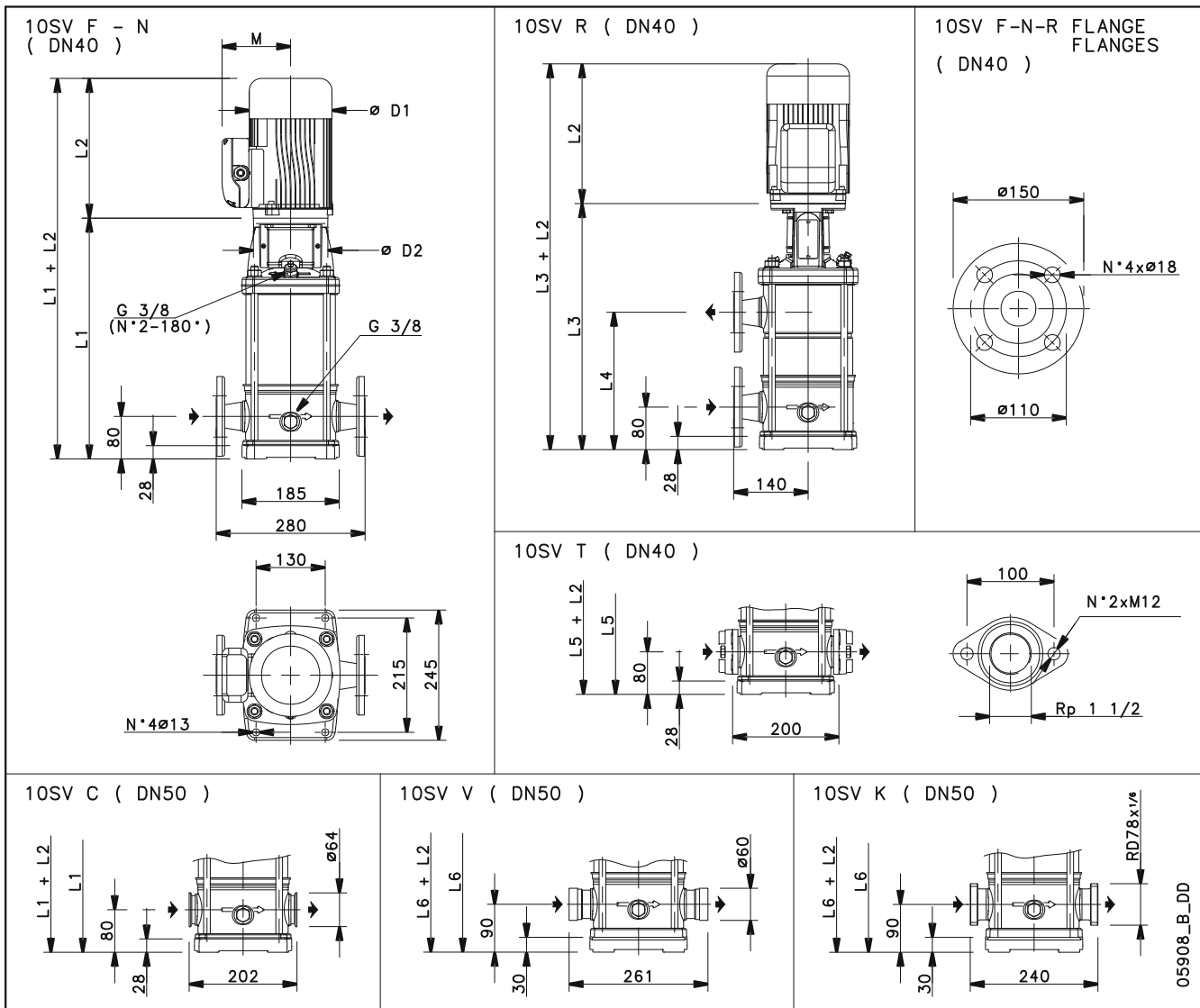
Performance according to ISO 9906:2012 – Grade 3B



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Drawing



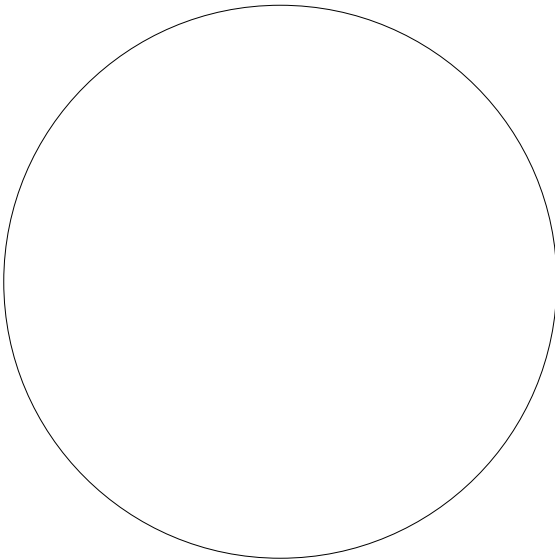
Dimensions mm

D1	155					Weight 27.6 kg
D2	120					
L1	389					
L2	263					
L5	389					
L6	399					
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			

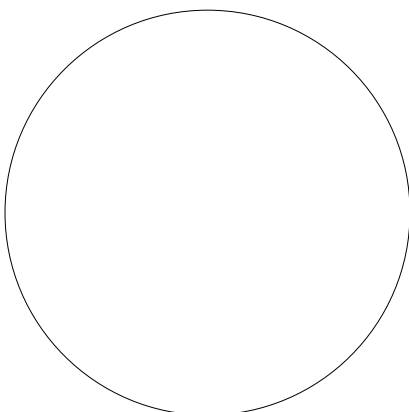
Total costs



- 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

GBP

First year costs



- 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)

GBP