

# Technical Data

Booster set name

1GPE MATRIX 5-4T/0.9 ESPM

Customer	Date	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID	E-mail

## Requested data

1	Pump type	HORIZONTAL MULTISTAGE PUMPS	Fluid	Water
2	Number of pumps / Reserve	1 / 0	Liquid temperature	°C 20
3	Flow m³/h		Kin. viscosity	mm²/s 1.005
4	Head m		Vapour pressure	kPa 2.34
5	Geodetic head m		PH value	
6	Inlet pressure (pin) kPa	0	Density	kg/m³ 998.3
7	Available system NPSH		Solids	Weight % 0
8	Ambient temperature °C	20		

## Pump

9	Pump Name	MATRIX 5-4T/0.9	Hz	50
10	Design	HORIZONTAL MULTISTAGE PUMPS	Installation type	STANDARD
11	Manufacturer		Impeller Diameter	Max. mm 97
12	Speed 1/min	2850		Designed mm 97
13	No. of Stage	4		Min. mm 97
14	Connection Suction side	UNI ISO 228	Flow	Operating m³/h
15	Connection Discharge side	UNI ISO 228		Max- m³/h 7.8
16	Max Working Pressure kPa	1000		Min- m³/h 1.8
17	Shut-off head kPa	450.60	Head	Operating m
18	Total weight kg			- (Qmax.) m 17.6
19	Shaft power kW			- (Qmin.) m 43.0
20			Max. Shaft Power at max. impeller	kW 0.87
21	Required pump NPSH m		Efficiency	%

## Materials

22	Impeller	AISI 304		
23	Casing	AISI 304		
24	Shaft	AISI 304 wet extension		
25				
26				
27				

## Motor

28	Manufacturer	EPE Standard	Insulation class	F
29	Type	TEFC_MATRIX 5-4T/0.9_400_Three Phase	Phases	3~
30	Specific design	IE3 / 50 Hz / Pole pairs 1	Frame size	
31	Rated power kW	0.9	Weight	kg
32	Number of poles	2	Electric voltage	V 400
33	Speed 1/min	2850	Electric current	A 2.5
34	Degree of protection	IP 55		
35				

## Remarks

# Performance Curve

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**Requested data**

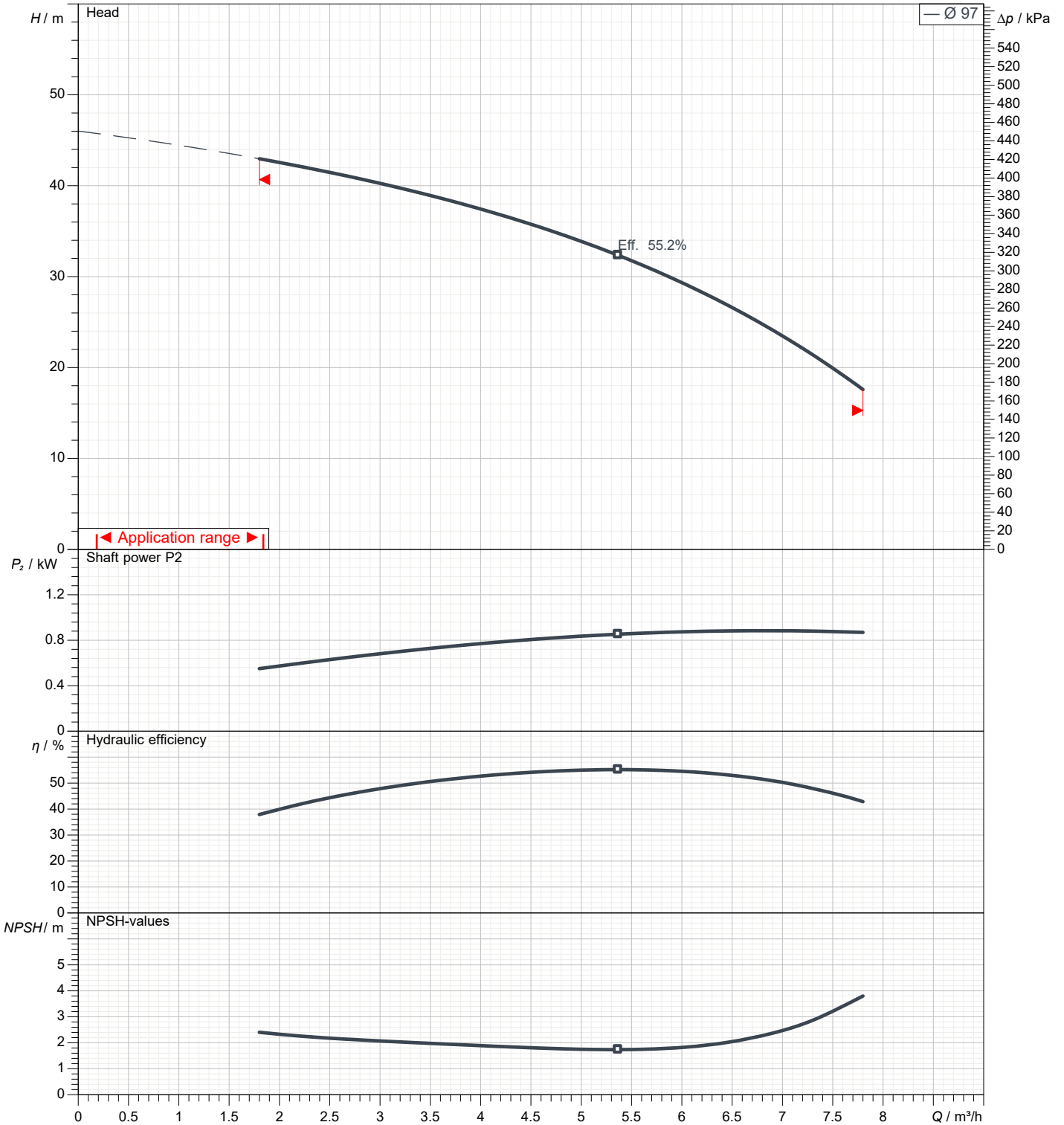
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

**Pump**

Operating flow	m³/h	Frequency	Hz	50
Operating head	m	Number of poles		2
Impeller diameter designed	mm	97	Speed	1/min 2850

Test standard: ISO 9906:2012 - Grade3B

Water; 20°C; 998.3kg/m³; 1mm²/s

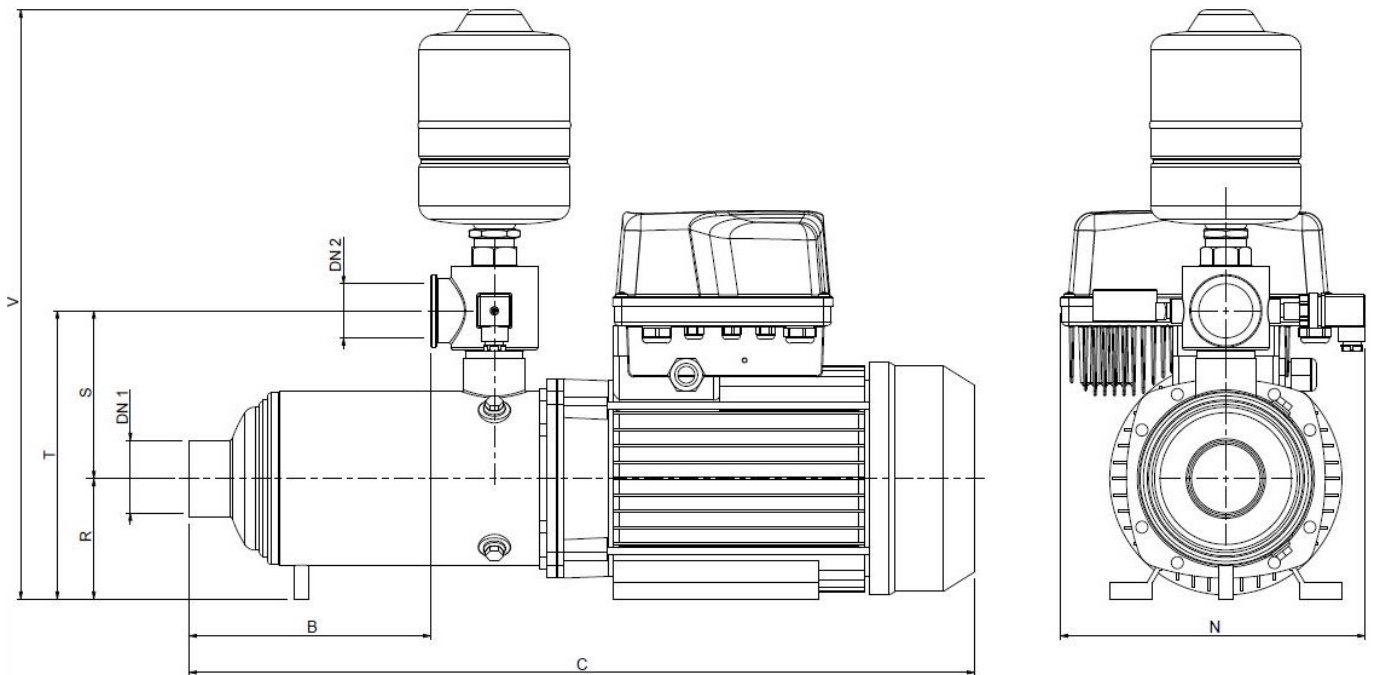


# Dimensions

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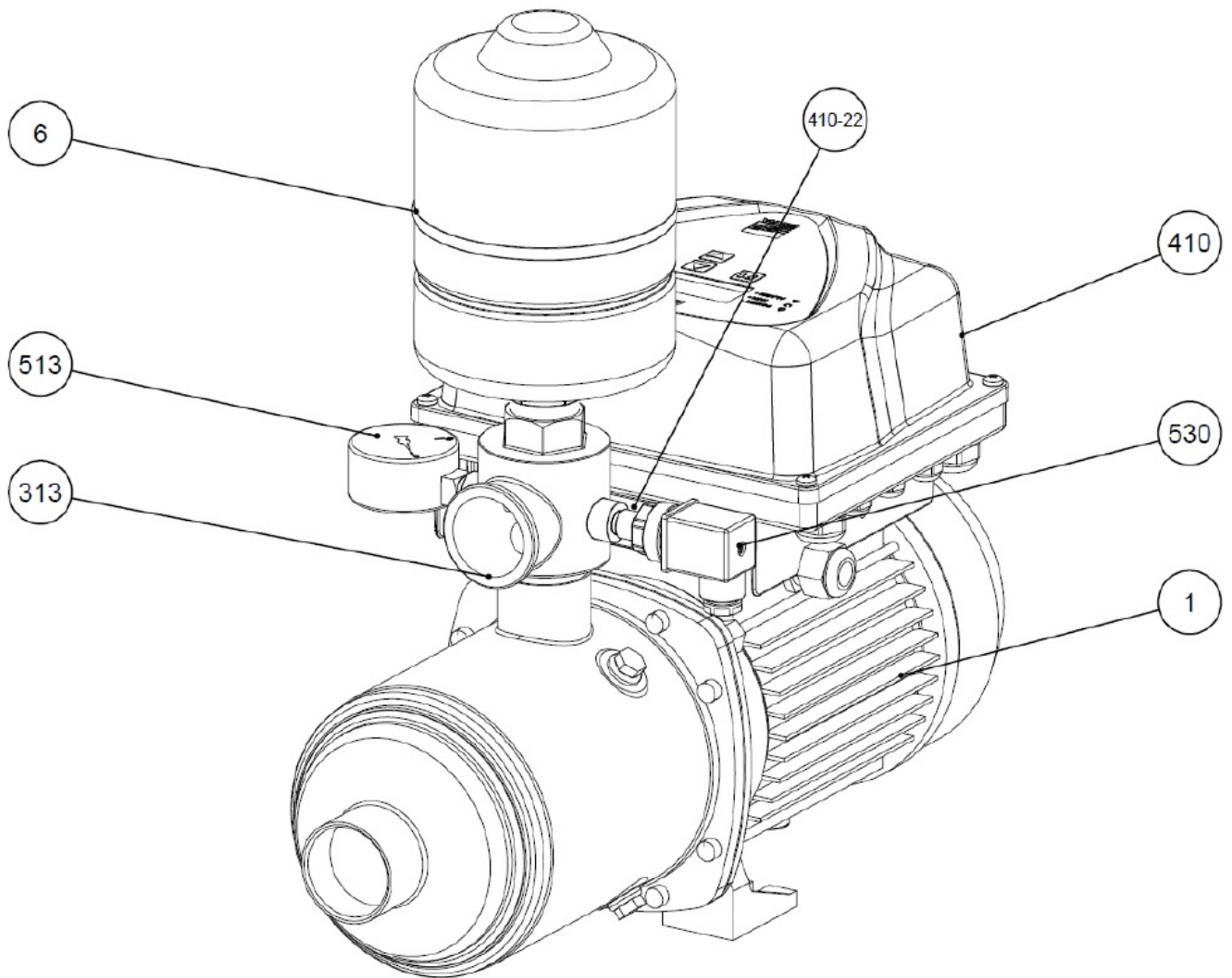
Dimensions in		mm						
1	B	87						
2	C	396						
3	DN1	G1 1/4 F						
4	DN2	G1 F						
5	N	243						
6	R	90						
7	S	133						
8	T	223						
9	V	461						
10	Weight kg	18.4						
11								
12								
13								
14								
15								

# (1/2) Construction

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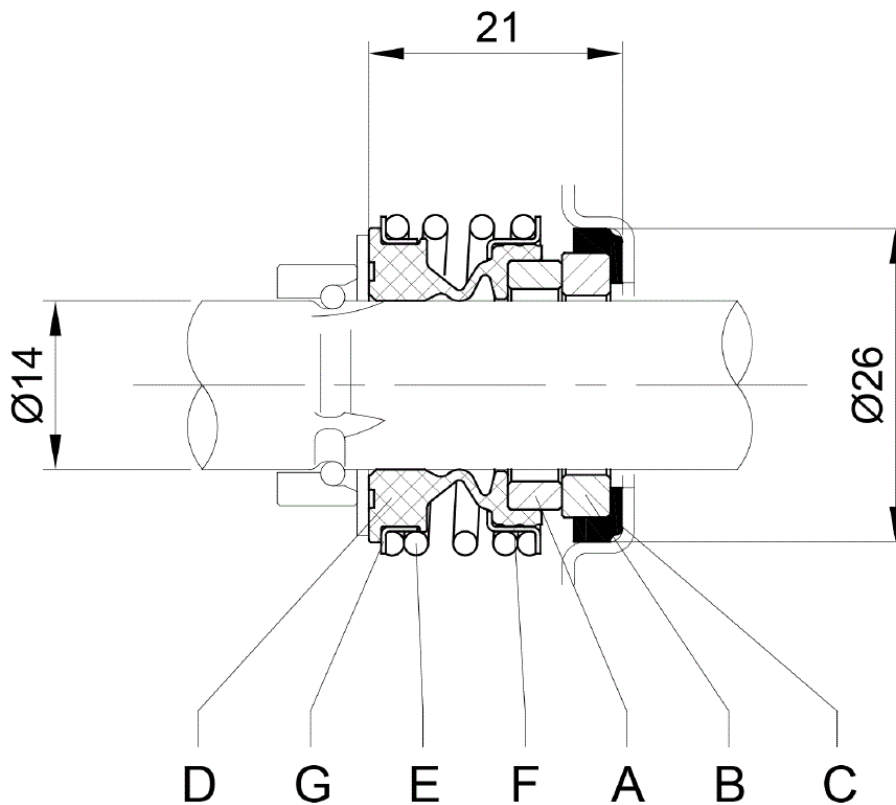
N°	PART NAME	MATERIAL	Quantity
1	Electropump	-	1
6	Membrane Vessel	-	1
313	5-Way Check Valve	AISI 304	1
410	E-SPD+	-	1
410-22	E-SPD+ adaptor	-	1
513	Pressure gauge	Copper alloy / plastic	1
530	Pressure transmitter	-	1

**(2/2)**  
**Construction**

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**MECHANICAL SEAL**



	A	B	C	Material			G
	Rotary seal ring	Stationary seal ring	Gasket	D	E	F	Retainer ring
	Carbon	Ceramic	EPDM	Bellows	Spring	Frame	
<b>STANDARD*</b>				EPDM	EN 1.4402 (AISI 316)	EN 1.4402 (AISI 316)	EN 1.4402 (AISI 316)

\*Approval for drinking water application  
WRAS Approval product

