Booster set name

Technical Data

1GPE MATRIX 10-5T/2.2 ESPM

Customer	Date 07.10.2026	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID	E-mail

Requested data

1	Pump type	Booster Set	Fluid		Water
2	Number of pumps	1	Liquid temperature	°C	20
3	Flow m³/h		Kin. viscosity	cSt	1.005
4	Head m		Vapour pressure	kPa	2.34
5	Geodetic head m		PH value		
6	Inlet pressure kPa	0	Density	kg/m³	998.3
7	Available system NPSH	Ask our technical department.	Solids	Weight %	0
8	Ambient temperature °C	20	Installation height	m	100

Booster Set

9	Booster set name	1GPE MATRIX 10-5T/2.2 ESPM	Frequency		Hz	50
10	Design	Booster Set				
11	Manufacturer	EBARA	Impeller Dia.	Max.	mm	101
12	Speed rpm	2850		Designed	mm	101
13	No. of Stage	5		Min.	mm	101
14	Connection Suction side	G1 1/2 F PN10	Flow	Operating	m³/h	
15	Connection Discharge side	G1 1/4 F PN10		Max-	m³/h	15
16	Max Working Pressure kPa	1000		Min-	m³/h	3.6
17	Shut-off head kPa	588.77	Head	Operating	m	
18	Total weight kg	See the table of "Dimensions".		- (Qmax.)	m	14.3
19	Shaft power kW			- (Qmin.)	m	55.5
20			Max. Shaft Power at max. impeller		kW	1.90
21	Required NPSH m		Efficiency		%	

Materials

22	Check valve	AISI 304/Silicone	O-ring	EPDM
23	Impeller	AISI 304		
24	Casing	AISI 304		
25	External pump casing	AISI 304		
26	Shaft	AISI 304		
27	Shaft seal	Ceramic/Carbon/EPDM		

Motor

28	Manufacturer	EPE Standard	Insulation class		F
29	Type	TEFC_MATRIX 10-5T/2.2_230_Three Phase	Phases		3~
30	Specific design	IE3 / 50 Hz / Pole pairs 1	Frame size		
31	Rated power kW	2.2	Weight; motor	kg	
32	Number of poles	2	Electric voltage	V	230
33	Speed rpm	2850	Electric current	A	8.2
34	Degree of protection	IP 55			
35					

Remarks

EBARA

Performance curve

Booster set name

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Requested data

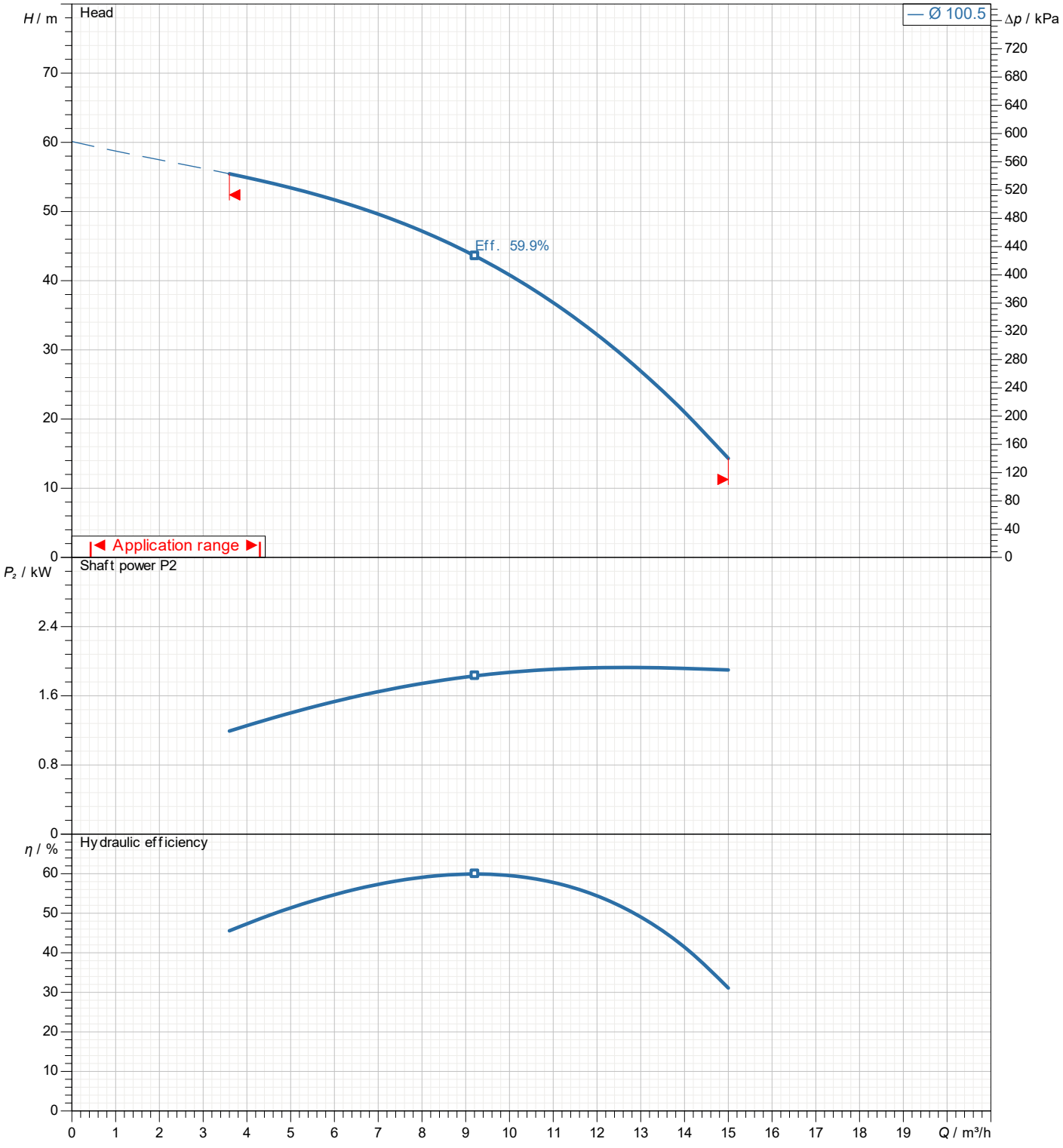
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

Booster set

Operating flow	m³/h		Frequency	Hz	50
Operating head	m		Number of poles		2
Impeller Diameter Designed	mm	101	Speed	rpm	2850

Test standard: ISO 9906:2012 - Grade3B

Water; 20°C; 998.3kg/m³; 1cSt



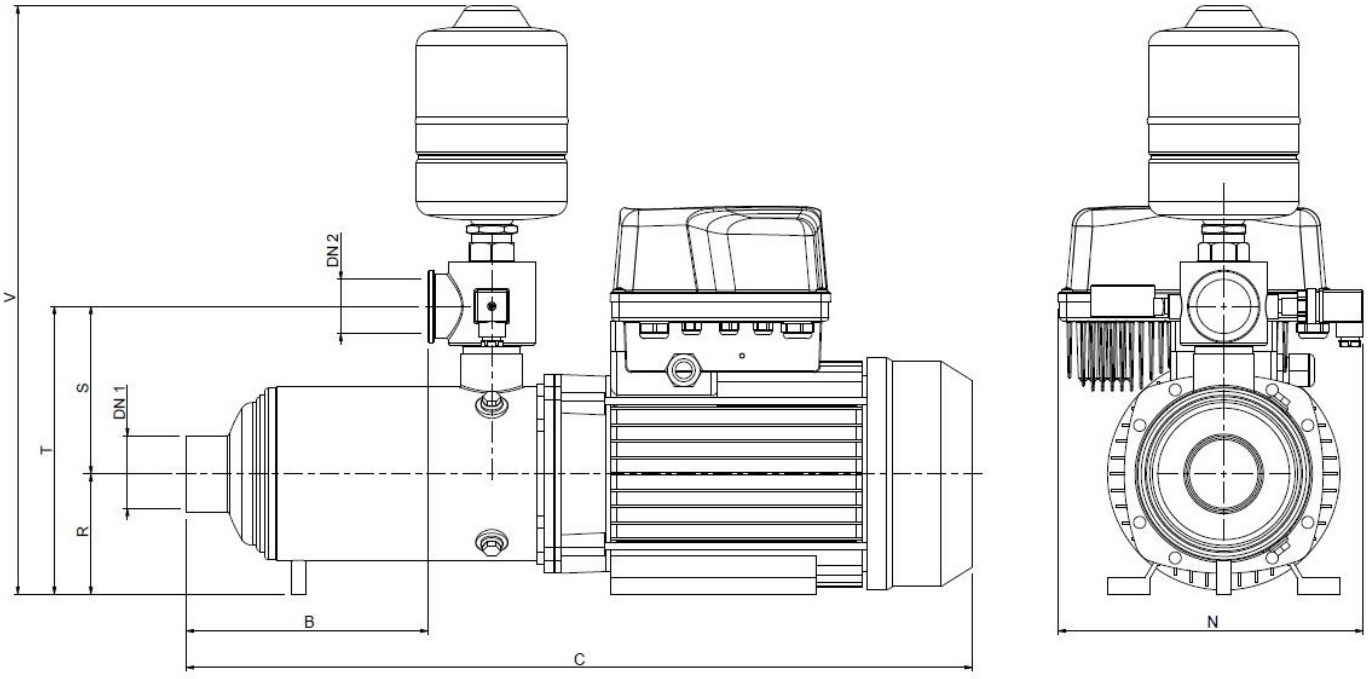
EBARA

Dimensions

Booster set name

1GPE MATRIX 10-5T/2.2 ESPM

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Dimensions in	mm							
1	B	127						
2	C	487						
3	DN1	G1 1/2 F						
4	DN2	G1 1/4 F						
5	N	249						
6	R	90						
7	S	132						
8	T	222						
9	V	469						
10	Weight kg	23.3						
11								
12								
13								
14								
15								

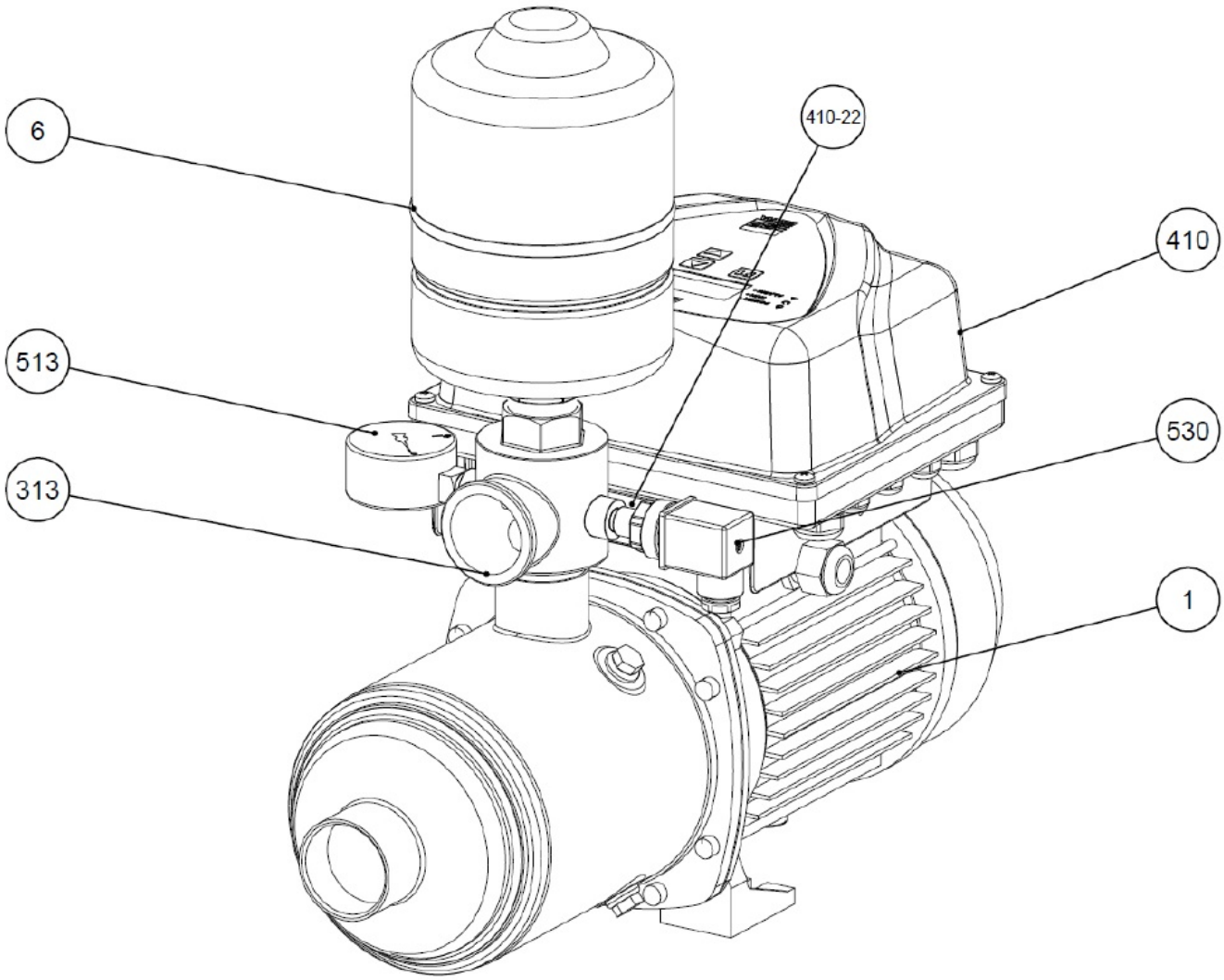
EBARA

(1/2)
Construction

Booster set name

1GPE MATRIX 10-5T/2.2 ESPM

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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

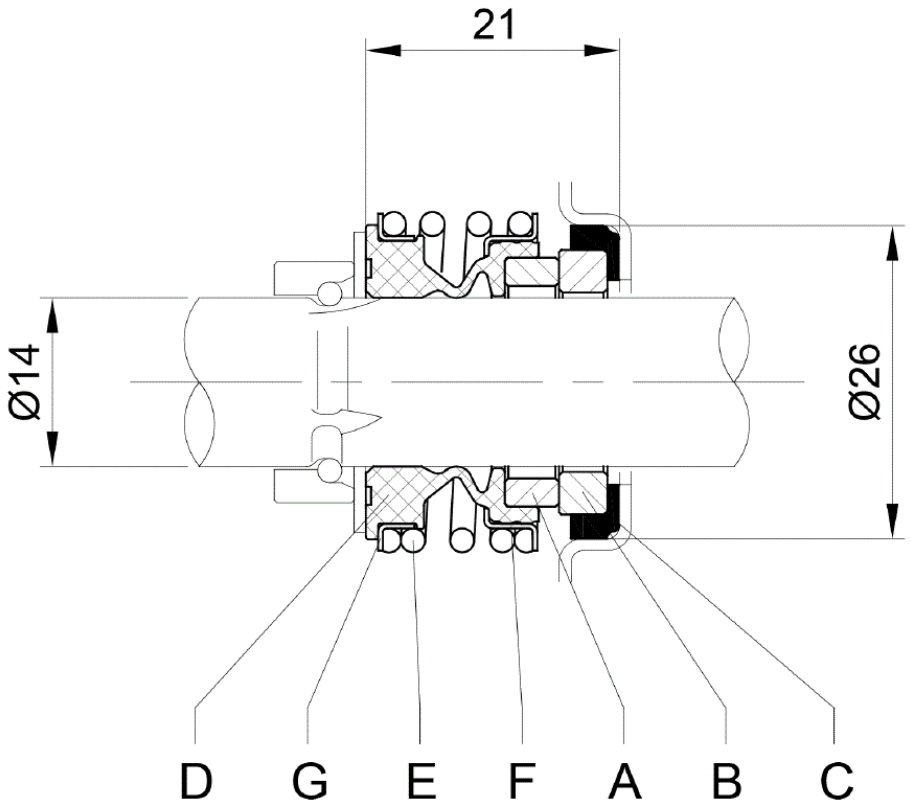
(2/2)
Construction

Booster set name

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MECHANICAL SEAL



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

*Approval for drinking water application
WRAS Approval product

WRAS APPROVED PRODUCT