

Technical Data

Booster set name

1GPE JEX120 ESPM

Customer	Date	09.06.2024	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 JEX120 ESPM	Frequency Hz	50
10	Design	Booster Set		
11	Manufacturer	EBARA	Impeller Dia.	Max. mm 141
12	Speed rpm	2800		Designed mm 141
13	No. of Stage	1		Min. mm 141
14	Connection Suction side	G1 1/4 F PN6	Flow	Operating m³/h
15	Connection Discharge side	G1 F PN6		Max- m³/h 4.2
16	Max Working Pressure kPa	600		Min- m³/h 1.2
17	Shut-off head kPa	489.72	Head	Operating m
18	Total weight kg	See the table of "Dimensions".		- (Qmax.) m 24.5
19	Shaft power kW			- (Qmin.) m 40.9
20			Max. Shaft Power at max. impeller kW	
21	Required NPSH m		Efficiency %	

Materials

22	Check valve	AISI 304/Silicone	Diffuser	PPE+PS glass fibre reinforced
23	Impeller	AISI 304		
24	Casing	AISI 304		
25	Ejector	PPE+PS glass fibre reinforced		
26	Shaft	AISI 303		
27	Shaft seal	Ceramic/Carbon/NBR		

Motor

28	Manufacturer	EPE Standard	Insulation class	F
29	Type	TEFC_JEX 120_230_Three Phase	Phases	3~
30	Specific design	IE3 / 50 Hz / Pole pairs 1	Frame size	
31	Rated power kW	0.88	Weight; motor kg	
32	Number of poles	2	Electric voltage V	230
33	Speed rpm	2800	Electric current A	3
34	Degree of protection	IP 54		
35				

Remarks

--

Performance curve

Booster set name

1GPE JEX120 ESPM

Customer	Date 09.06.2024	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID	E-mail

Requested data

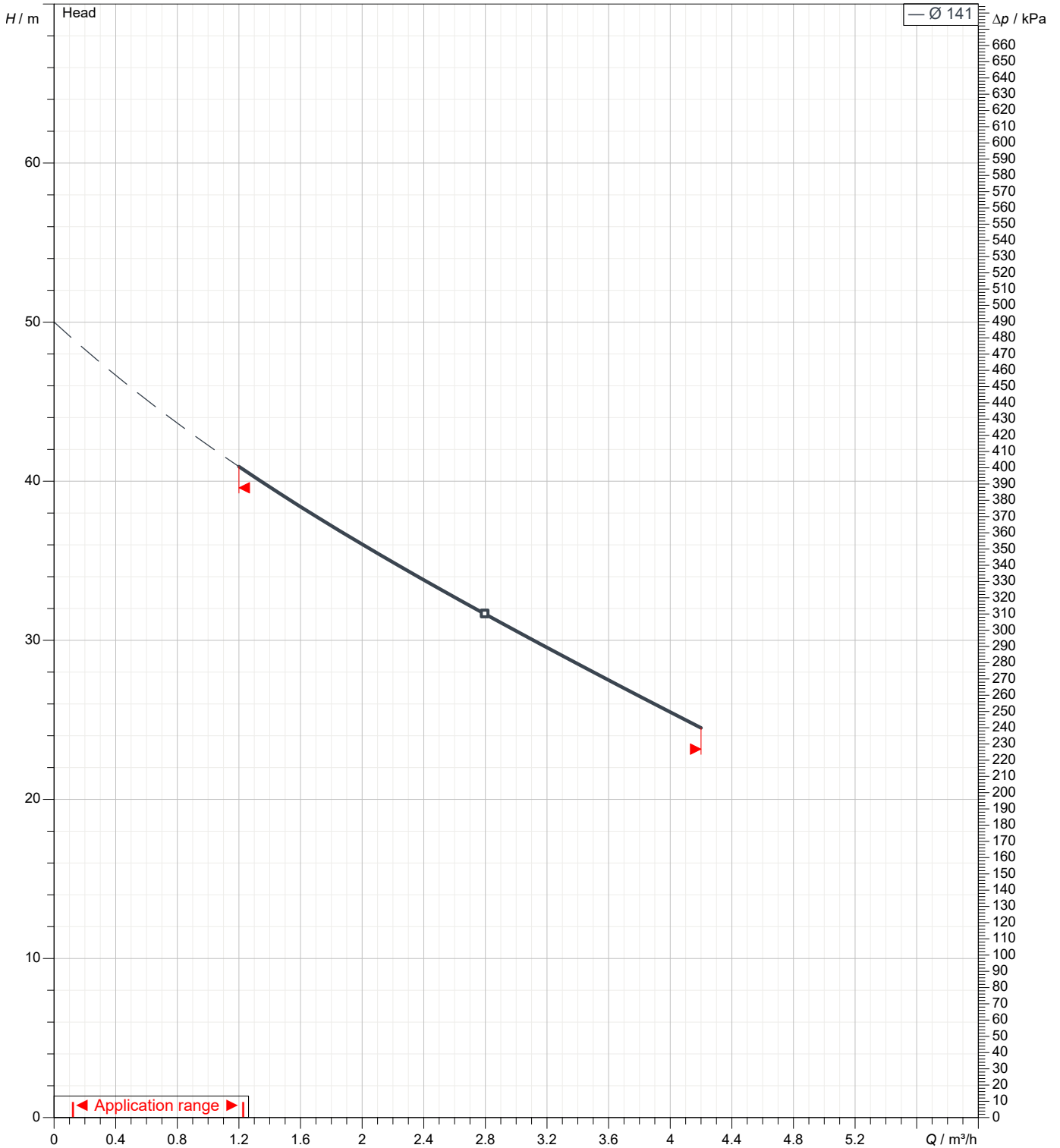
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

Booster set

Operating flow	m³/h		Frequency	Hz	50
Operating head	m		Number of poles		2
ImpellerDiameter Designed	mm	141	Speed	rpm	2800

Test standard: ISO 9906:2012 - Grade3B

Water; 20°C; 998.3kg/m³; 1cSt

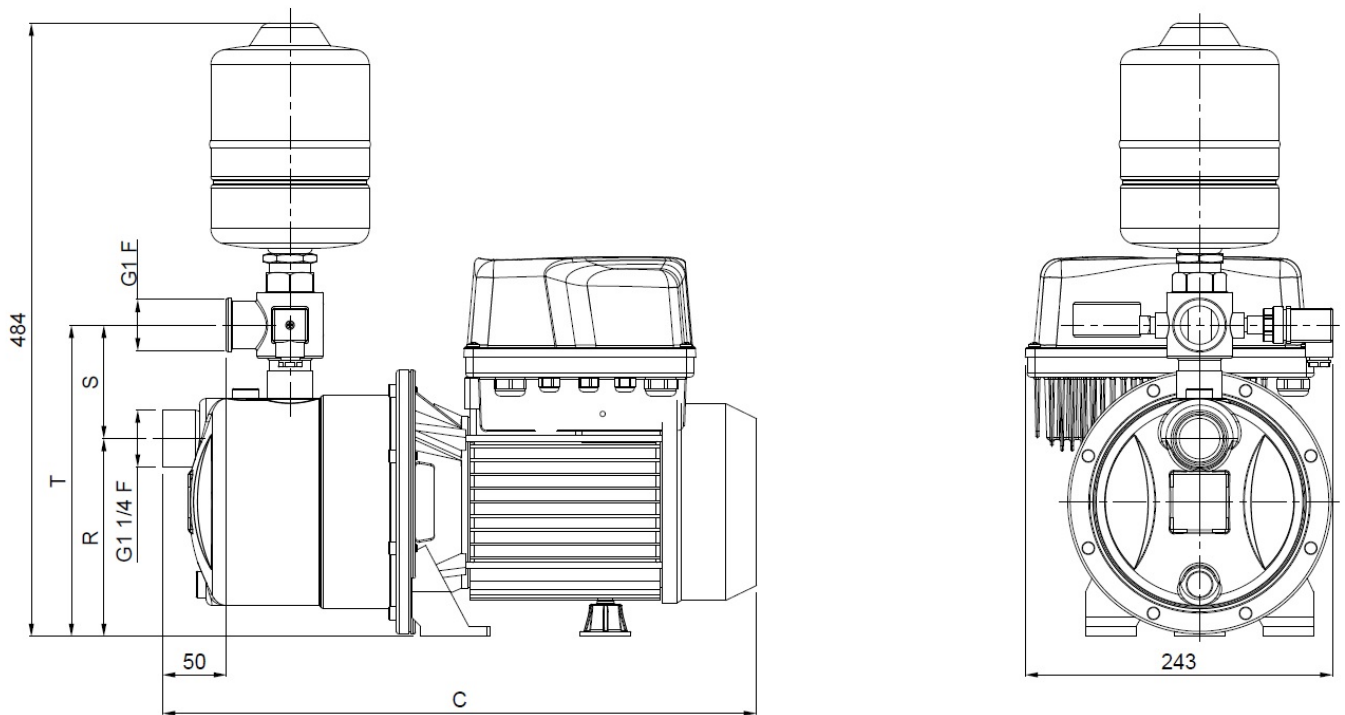


Dimensions

Booster set name

1GPE JEX120 ESPM

Customer	Date 09.06.2024	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID	E-mail

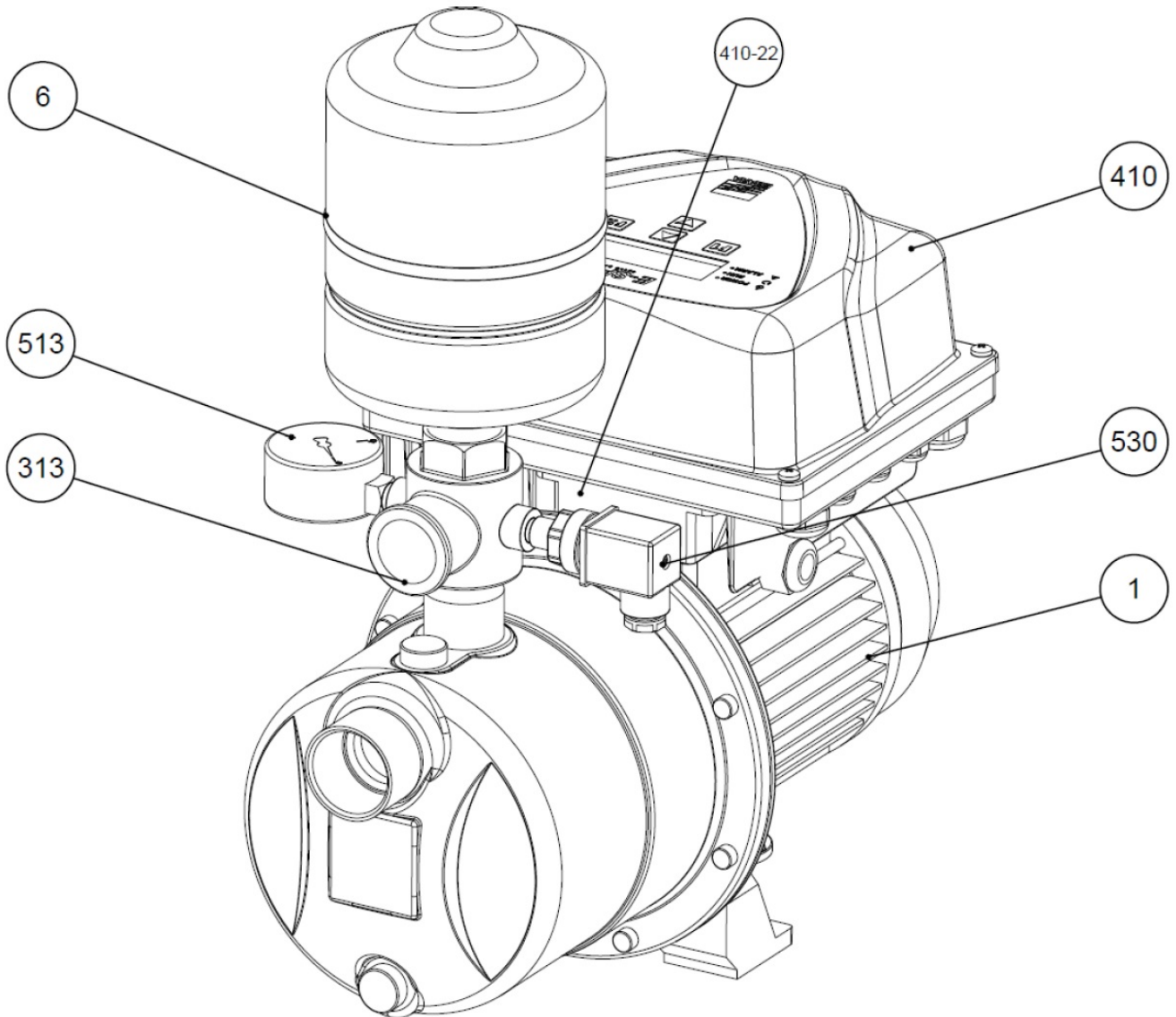


Dimensions in		mm						
1	C	418						
2	R	106						
3	S	50						
4	T	156						
5	Weight kg	17						
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								

(1/2) Construction

Booster set name
1GPE JEX120 ESPM

Customer	Date 09.06.2024	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID	E-mail

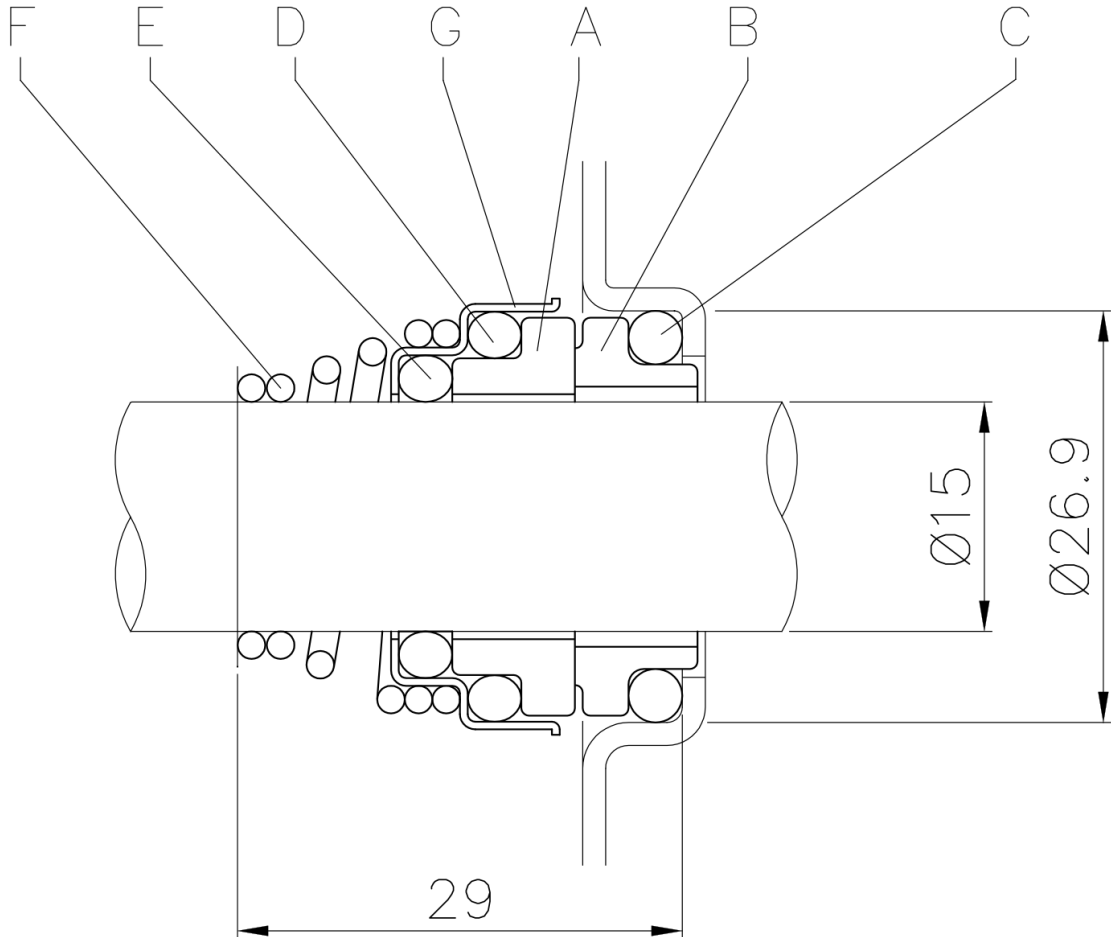


N°	PART NAME	MATERIAL	Quantity
1	Electropump	-	1
6	Membrane Vessel	-	1
313	5-Way Check Valve	AISI 304	1
410	E-SPD+	-	1
410-22	E-SPD+ adaptor	-	1
513	Pressure gauge	Copper alloy / plastic	1
530	Pressure transmitter	-	1

(2/2)
Construction

Booster set name
1GPE JEX120 ESPM

Customer	Date 09.06.2024	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID	E-mail



REF	PART NAME	MATERIAL
A	Rotary seal ring	Ceramic
B	Stationary seal ring	Carbon graphite
C	O Ring	NBR
D	O Ring	NBR
E	O Ring	NBR
F	Self driving spring	AISI 316
G	Frame	AISI 304