Booster set name

Technical Data

3GP EVMSG10 9N5/4

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	3	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	3GP EVMSG10 9N5/4	Frequency		Hz	50
10	Design	Booster Set				
11	Manufacturer	EBARA	Impeller Dia.	Max.	mm	96
12	Speed rpm	2920		Designed	mm	96
13	No. of Stage	9		Min.	mm	96
14	Connection Suction side	G 3 PN16	Flow	Operating	m³/h	
15	Connection Discharge side	G 3 PN16		Max-	m³/h	15
16	Max Working Pressure kPa	1600		Min-	m³/h	4.5
17	Shut-off head kPa	973.37	Head	Operating	m	
18	Total weight kg	See the table of "Dimensions".		- (Qmax.)	m	45.6
19	Shaft power kW			- (Qmin.)	m	96.8
20			Max. Shaft Power at max. impeller		kW	3.29
21	Required NPSH m		Efficiency		%	

Materials

22	Frame	Galvanized steel	Shaft	AISI 304
23	Manifold	AISI 304	O-ring	EPDM
24	Check valve	Brass / NBR		
25	Ball / Butterfly valve	Brass / PTFE		
26	Impeller	AISI 304		
27	Casing	Cast iron		

Motor

28	Manufacturer	ETM	Insulation class		F
29	Type	TEFC_EVMS10 9/4.0_400_Three Phase	Phases		3~
30	Specific design	IE3 / 50 Hz / Pole pairs 1	Frame size		112
31	Rated power kW	4	Weight; motor	kg	28.5
32	Number of poles	2	Electric voltage	V	400
33	Speed rpm	2920	Electric current	A	8.7
34	Degree of protection	IP 55			
35					

Remarks

EBARA

Performance curve

Booster set name

3GP EVMSG10 9N5/4

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Requested data

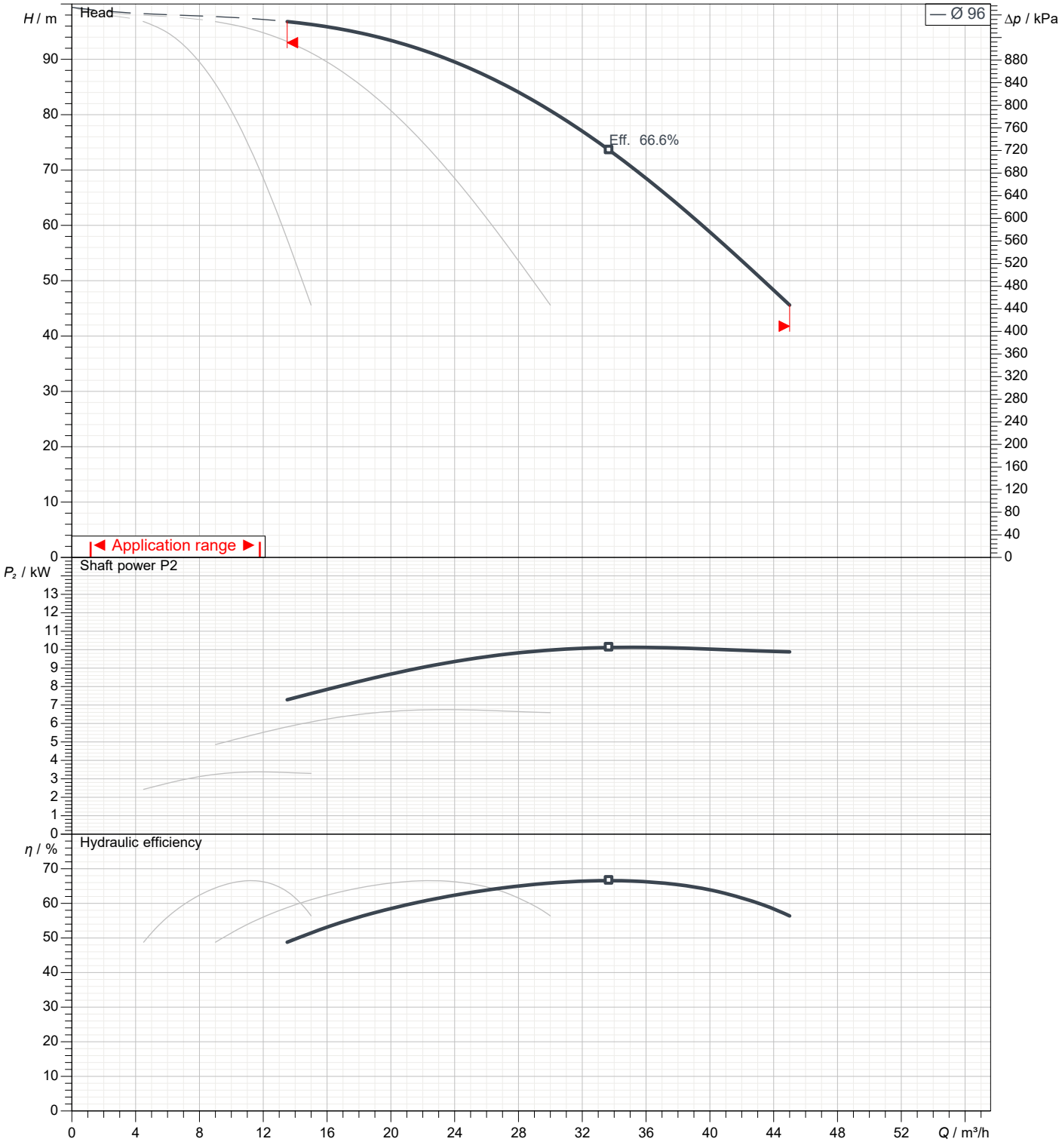
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

Booster set

Operating flow	m³/h		Frequency	Hz	50
Operating head	m		Number of poles		2
ImpellerDiameter Designed	mm	96	Speed	rpm	2920

Test standard: ISO 9906:2012 - Grade3B

Water; 20°C; 998.3kg/m³; 1cSt



EBARA

Dimensions

Booster set name

3GP EVMSG10 9N5/4

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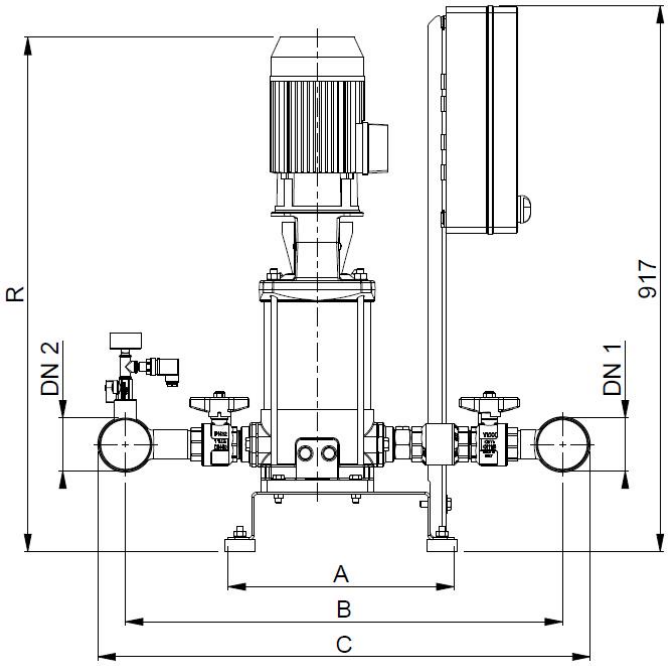

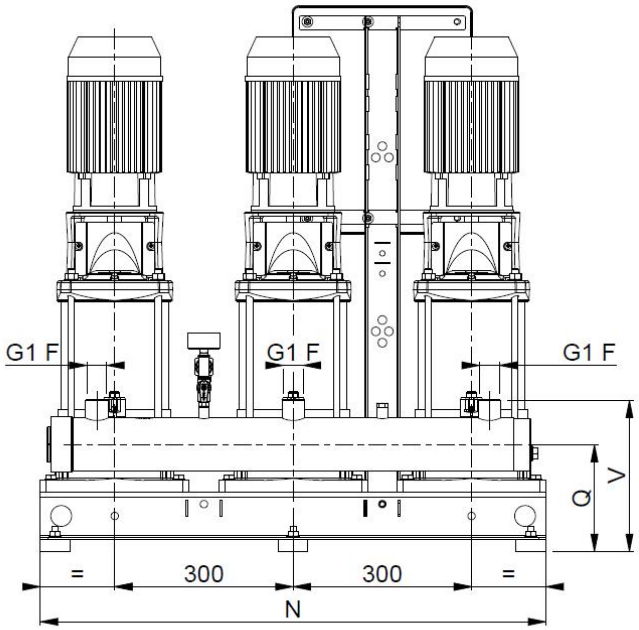

Dimensions in	mm							
1	A	380						
2	B	735						
3	C	830						
4	DN1	G 3						
5	DN2	G 3						
6	N	850						
7	Q	180						
8	R	1035						
9	V	255						
10	Weight kg	220						
11								
12								
13								
14								
15								

EBARA

(1/2)
Construction

Booster set name

3GP EVMSG10 9N5/4

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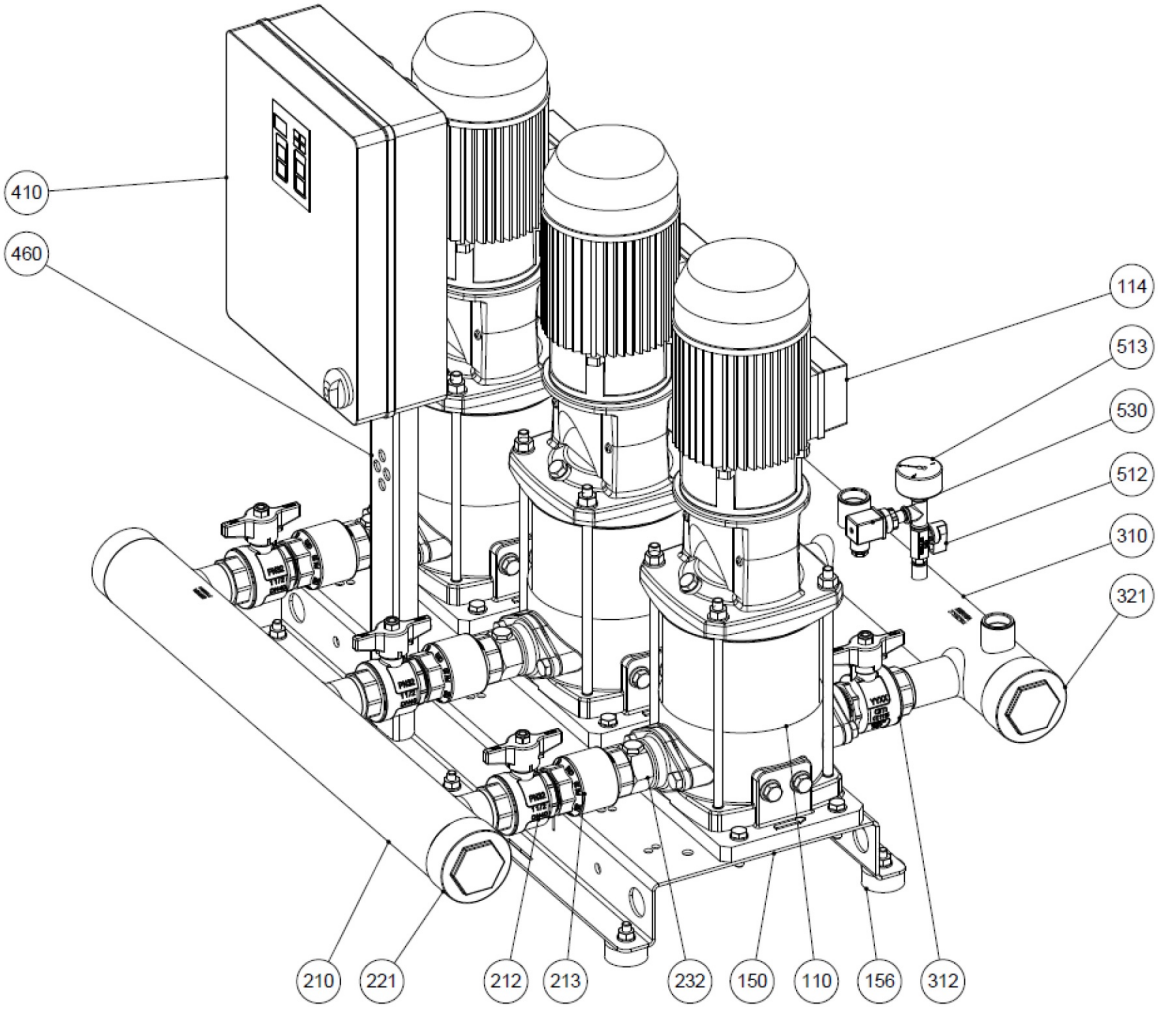

N°	PART NAME	MATERIAL	Quantity
110	Principal pump	-	3
114	Electric motor	-	3
150	Baseplate	Galvanized steel	1
156	Baseplate foot	SBR	6
210	Suction manifold	AISI 304	1
212	Ball valve	Brass / P.T.F.E.	3
213	Check valve	Brass / NBR	3
221	Threaded female cap	AISI 304	1
232	Nipple for air feeders	Yellow brass	3
310	Discharge manifold	AISI 304	1
312	Ball valve	Brass / P.T.F.E.	3
321	Threaded female cap	AISI 304	1
410	Control panel	-	1
460	Control panel frame	Galvanized steel	1
512	Ball valve	Brass / P.T.F.E.	1
513	Pressure gauge	Copper alloy / plastic	1
530	Pressure transmitter	-	1

(2/2)
Construction

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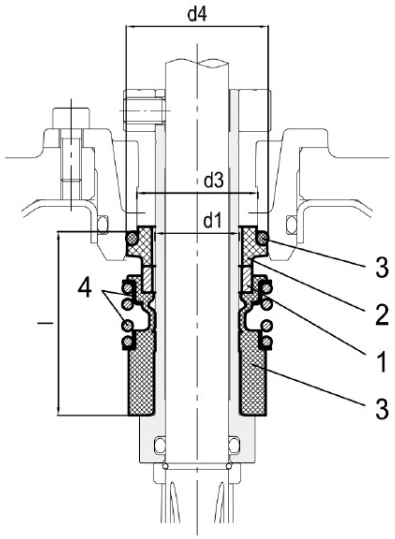

● : Standard

Pump model	Max operating temperature	Shaft seal type		Shaft seal material									Type key
Max operating pressure		Cartridge		1		2		3		4	5		
		Unbalanced	Balanced	Rotating Part	Code	Stationary Part	Code	Elastomers	Code	Compression spring	Collar	Code	
up to 16 bar	- 30℃ to + 120℃	●		SiC	(Q_1)	Carbon	(B)	EPDM	(E)	AISI 316		(G)	Q_1BEG

Max operating pressure	d1 [mm]	d2 [mm]	d3 [mm]	d4 [mm]	l [mm]
16 bar	20	-	29	35	37.5

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