Booster set name

Technical Data

3GPE EVMS5 12N5/3,0 ESPT (UK)

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	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	3GPE EVMS5 12N5/3,0 ESPT (UK)	Frequency		Hz	50
10	Design	Booster Set				
11	Manufacturer	EBARA	Impeller Dia.	Max.	mm	91
12	Speed rpm	2900		Designed	mm	91
13	No. of Stage	12		Min.	mm	91
14	Connection Suction side	UNI ISO 228 PN16	Flow	Operating	m³/h	
15	Connection Discharge side	UNI ISO 228 PN16		Max-	m³/h	7.8
16	Max Working Pressure kPa	1600		Min-	m³/h	2.4
17	Shut-off head kPa	1113.97	Head	Operating	m	
18	Total weight kg	See the table of "Dimensions".		- (Qmax.)	m	61.2
19	Shaft power kW			- (Qmin.)	m	107.8
20			Max. Shaft Power at max. impeller		kW	2.36
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	AISI 304		

Motor

28	Manufacturer	ETM	Insulation class		F
29	Type	TEFC_EVMS5 12/3.0_400_Three Phase	Phases		3~
30	Specific design	IE3 / 50 Hz / Pole pairs 1	Frame size		100
31	Rated power kW	3	Weight; motor	kg	22
32	Number of poles	2	Electric voltage	V	400
33	Speed rpm	2890	Electric current	A	6.4
34	Degree of protection	IP 55			
35					

Remarks

Item intended for the UK market only.

EBARA

Performance curve

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Requested data

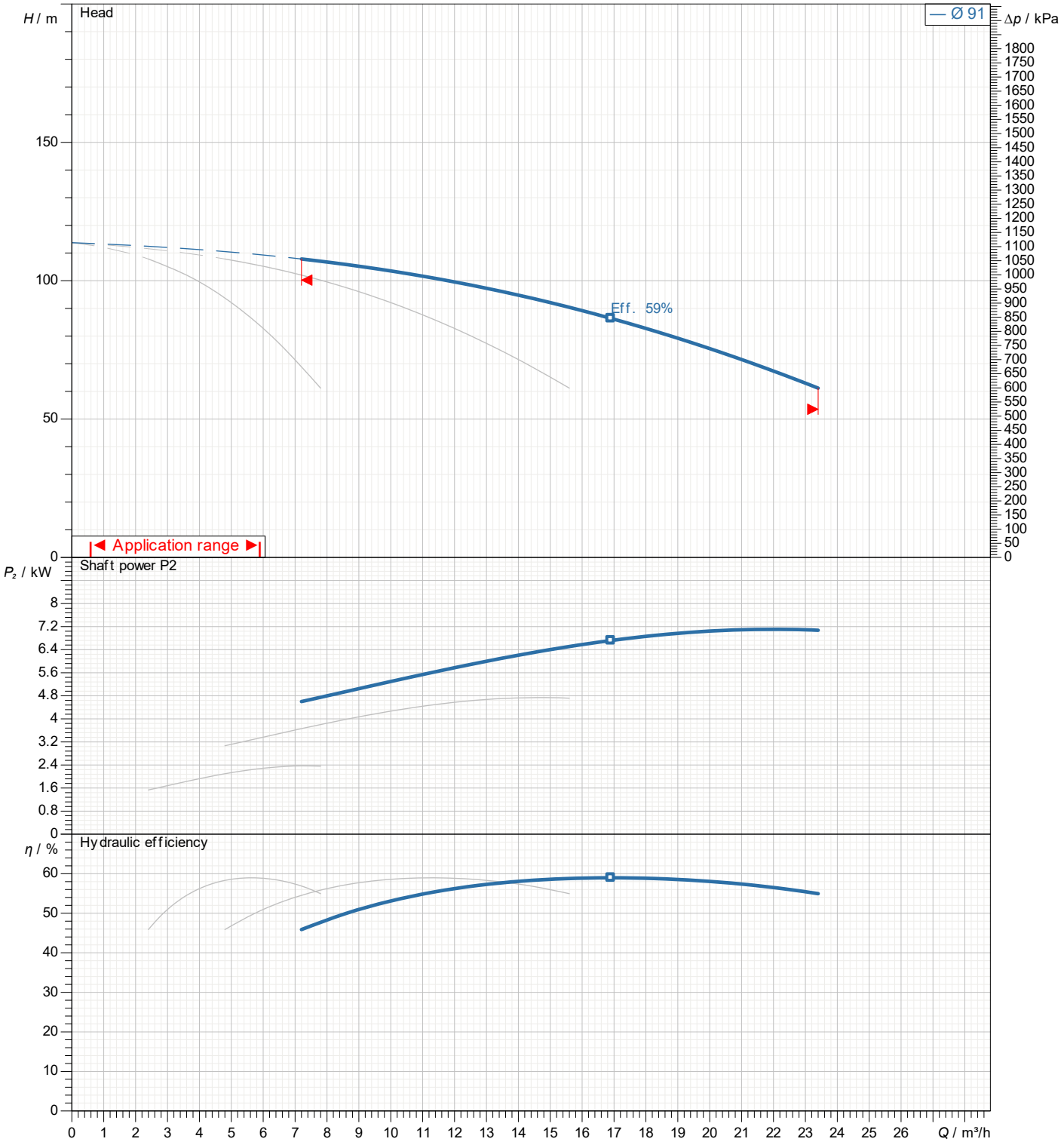
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

Booster set

Operating flow	m³/h		Frequency	Hz	50
Operating head	m		Number of poles		2
Impeller Diameter Designed	mm	91	Speed	rpm	2900

Test standard: ISO 9906:2012 - Grade3B

Water; 20°C; 998.3kg/m³; 1cSt



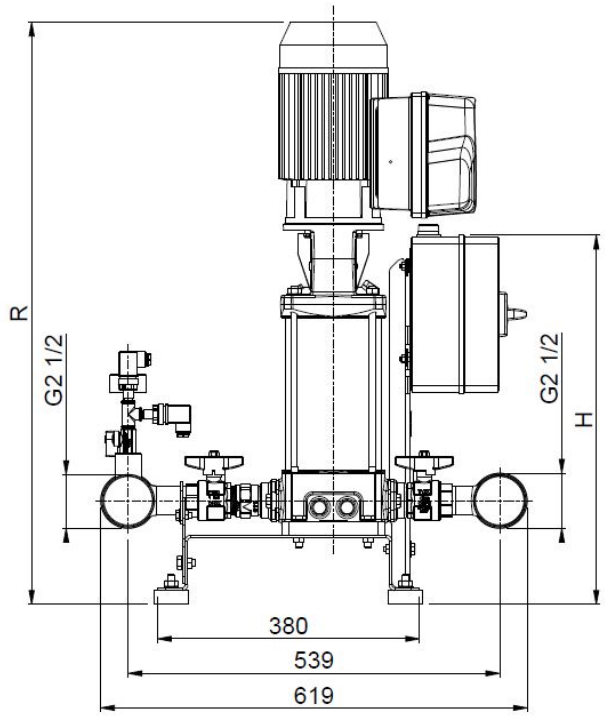
EBARA

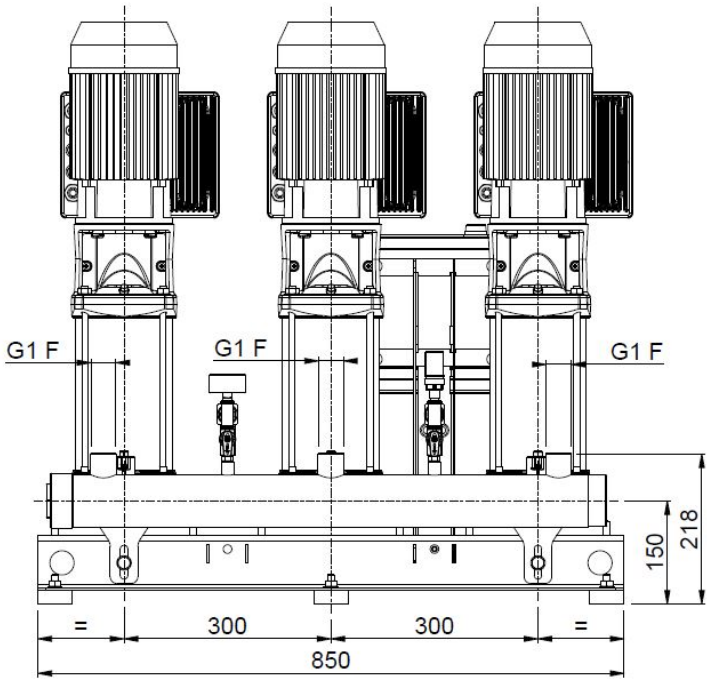
Dimensions

Booster set name

3GPE EVMS5 12N5/3,0 ESPT (UK)

Customer	Date 07.10.2026	Company
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Dimensions in	mm							
1	H	535						
2	R	1016						
3	Weight kg	112						
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								

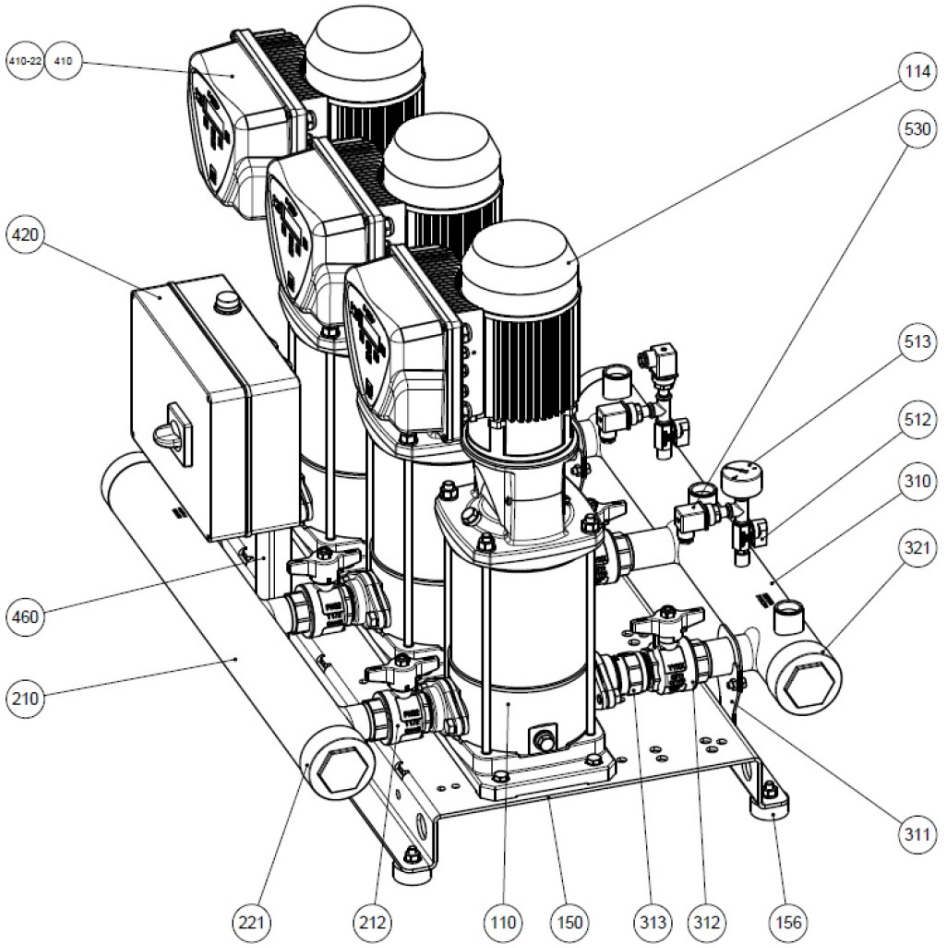
EBARA

(1/2)
Construction

Booster set name

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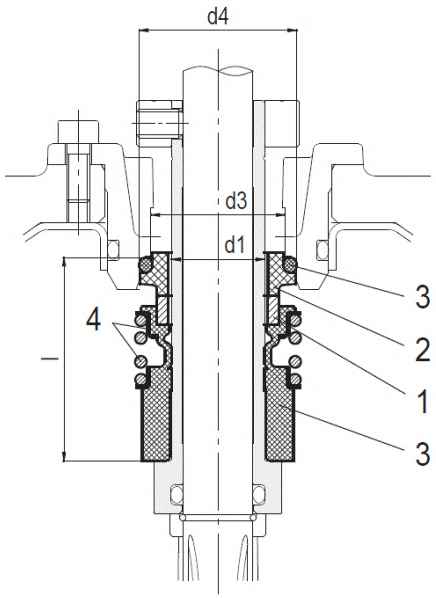
N°	PART NAME	MATERIAL	Quantity
110	Principal pump	-	3
114	Electric motor	-	3
150	Baseplate	Galvanized steel	1
156	Baseplate foot	SBR	6
210	Suction manifold	AISI 304	1
212	Ball valve	Brass / P.T.F.E.	3
221	Threaded female cap	AISI 304	1
310	Discharge manifold	AISI 304	1
311	Manifold bracket	Galvanized steel	2
312	Ball valve	Brass / P.T.F.E.	3
313	Check valve	Brass / NBR	3
321	Threaded female cap	AISI 304	1
410	E-SPD+	-	3
410-22	E-SPD+ adaptor	-	3
420	Protection panel	-	1
460	Protection panel frame	Galvanized steel	1
512	Ball valve	Brass / P.T.F.E.	2
513	Pressure gauge	Copper alloy / plastic	1
530	Pressure transmitter	-	3

(2/2)
Construction

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up to 16 bar
Cartridge Unbalanced type

Type key	Availability	Max operating pressure	Max operating temperature	Shaft seal type		Shaft seal material								
				Cartridge		1		2		3		4	5	
				Type	Code	Rotating part	Code	Stationary part	Code	Elastomers	Code	Compression spring	Collar	Code
Q1BEG	●	16 bar	- 30°C to + 120°C	Unbalanced	(-)	SiC	(Q1)	Carbon	(B)	EPDM	(E)	AISI 316		(G)

Pump model	Shaft seal type		Max operating pressure	d1 [mm]	d2 [mm]	d3 [mm]	d4 [mm]	l [mm]
EVMS 1/3/5	Cartridge	Unbalanced	16 bar	16	-	23	27	35
		Balanced	25 bar		20			42.5
EVMS 10/15/20	Cartridge	Unbalanced	16 bar	20	-	29	35	37.5
		Balanced	25 bar		24			45