Booster set name

Technical Data

3GPE EVMS5 6N5/1,5 ESPM (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 6N5/1,5 ESPM (UK)	Frequency		Hz	50
10	Design	Booster Set				
11	Manufacturer	EBARA	Impeller Dia.	Max.	mm	91
12	Speed rpm	2890		Designed	mm	91
13	No. of Stage	6		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	553.29	Head	Operating	m	
18	Total weight kg	See the table of "Dimensions".		- (Qmax.)	m	30.2
19	Shaft power kW			- (Qmin.)	m	53.5
20			Max. Shaft Power at max. impeller		kW	1.16
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 6/1.5_230_Three Phase	Phases		3~
30	Specific design	IE3 / 50 Hz / Pole pairs 1	Frame size		90
31	Rated power kW	1.5	Weight; motor	kg	23.3
32	Number of poles	2	Electric voltage	V	230
33	Speed rpm	2875	Electric current	A	12.3
34	Degree of protection	IP 55			
35					

Remarks

Item intended for the UK market only.

EBARA

Performance curve

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Requested data

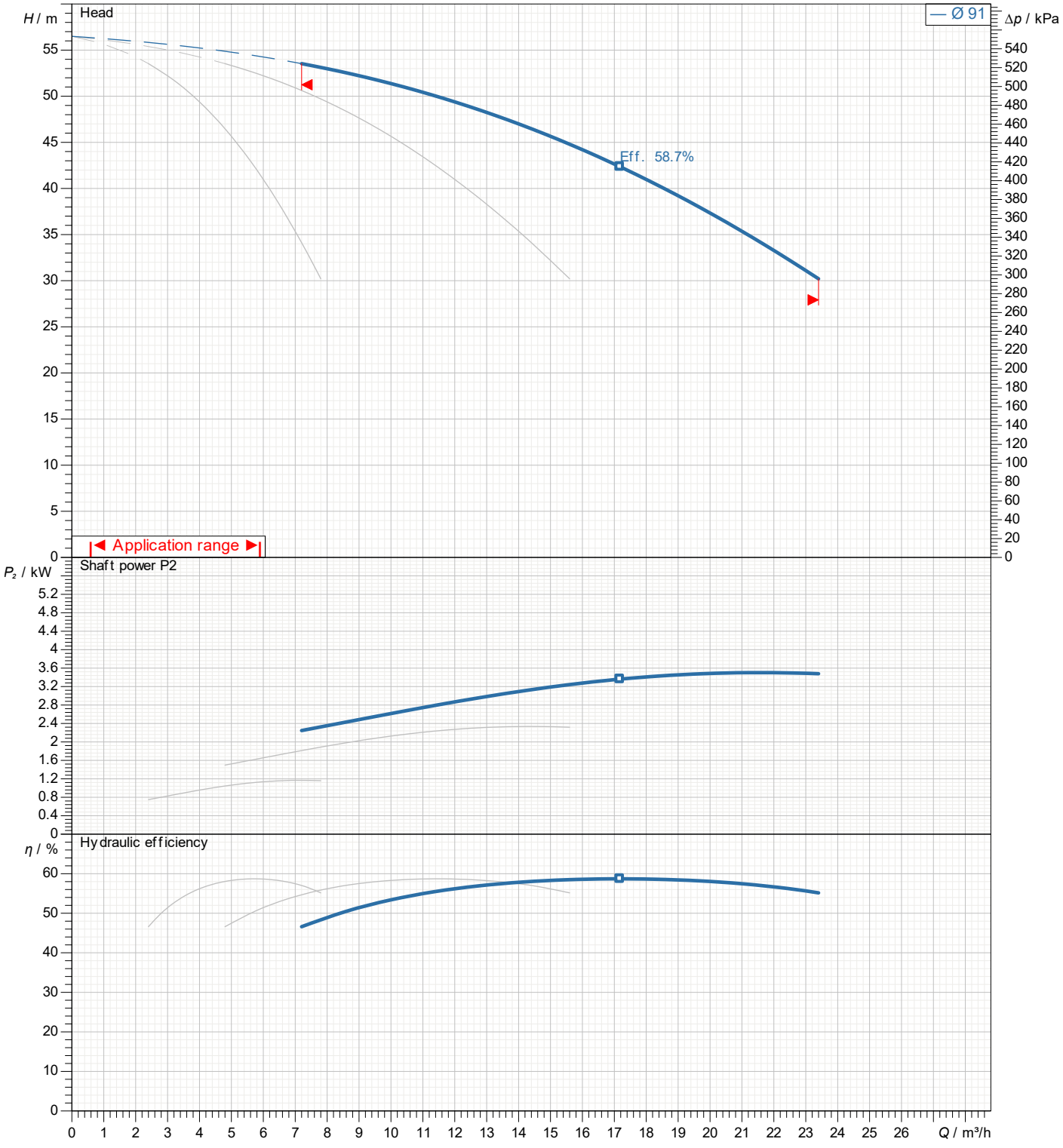
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

Booster set

Operating flow	m³/h		Frequency	Hz	50
Operating head	m		Number of poles		2
Impeller Diameter Designed	mm	91	Speed	rpm	2890

Test standard: ISO 9906:2012 - Grade3B

Water; 20°C; 998.3kg/m³; 1cSt



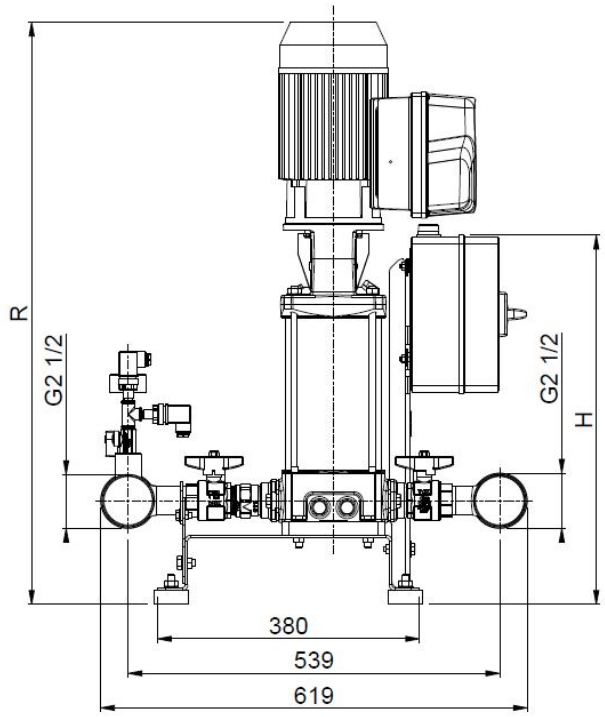
EBARA

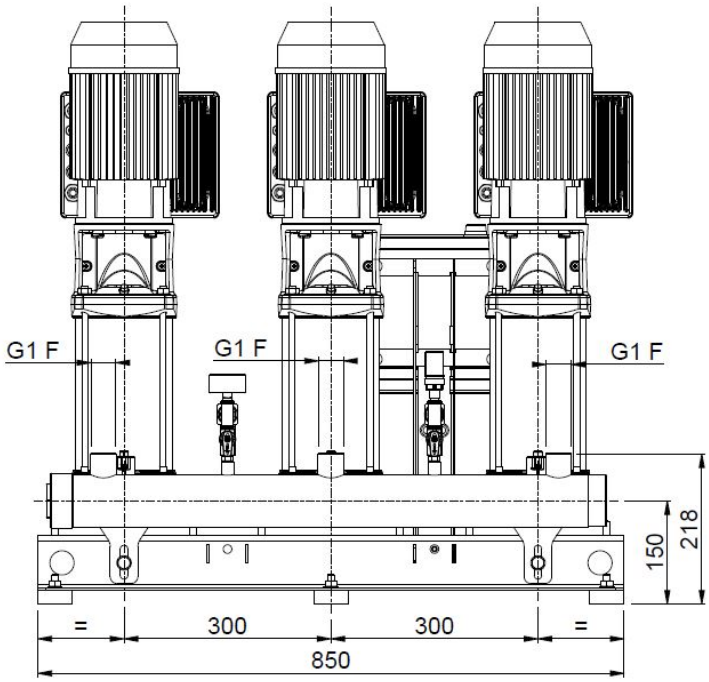
Dimensions

Booster set name

3GPE EVMS5 6N5/1,5 ESPM (UK)

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Dimensions in	mm	
1	H	535
2	R	787
3	Weight kg	130
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		

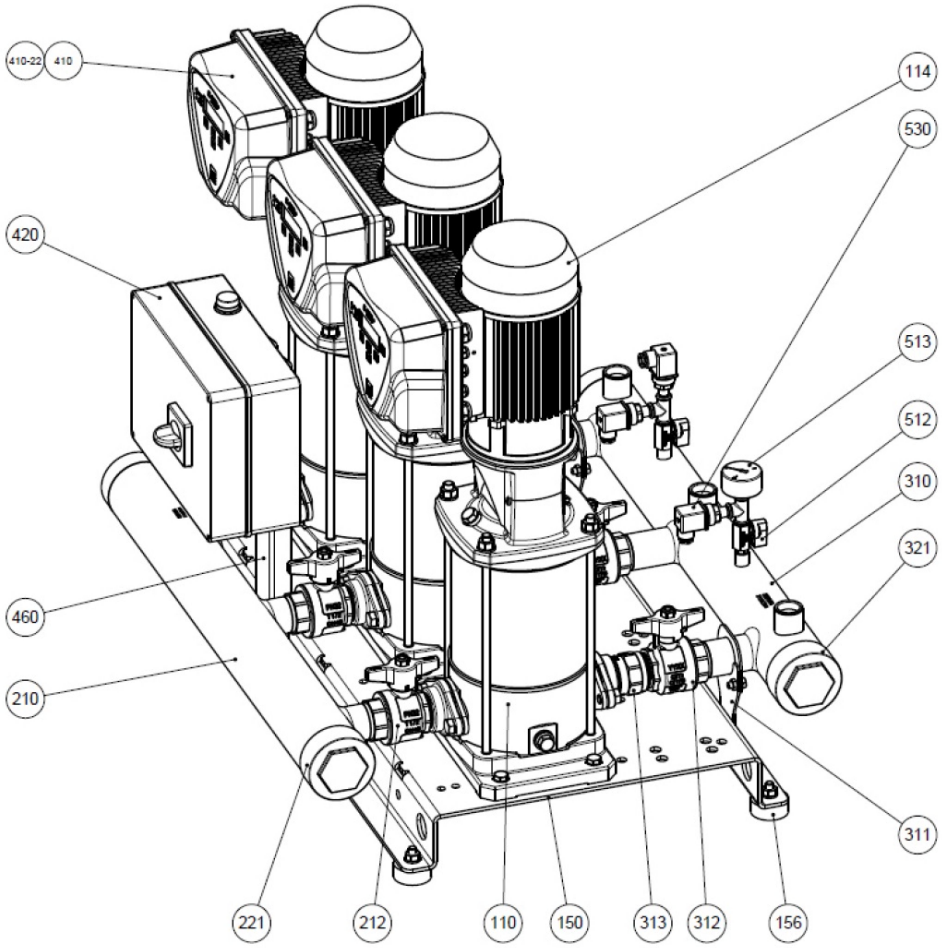
EBARA

(1/2)
Construction

Booster set name

3GPE EVMS5 6N5/1,5 ESPM (UK)

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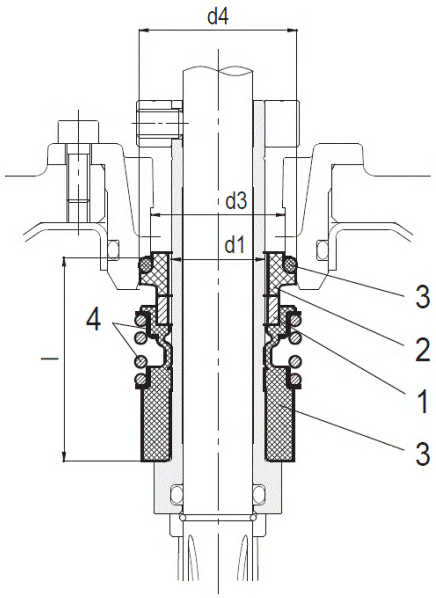
N°	PART NAME	MATERIAL	Quantity
110	Principal pump	-	3
114	Electric motor	-	3
150	Baseplate	Galvanized steel	1
156	Baseplate foot	SBR	6
210	Suction manifold	AISI 304	1
212	Ball valve	Brass / P.T.F.E.	3
221	Threaded female cap	AISI 304	1
310	Discharge manifold	AISI 304	1
311	Manifold bracket	Galvanized 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