Technical data

Pump name 80x65 FS4HA 5 1.5

Customer	Date 2021-05-06	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID	E-mail

Requested data

1	Pump type	End Suction Volute Pump	Fluid		Water
2	Number of pumps / Reserve	1 / 0	Liquid temperature	°C	20
3	Flow m³/h		Kin. viscosity	mm²/s	1.005
4	Head m		Vapour pressure	bar	0.0234
5	Geodetic head m		PH value		
6	Inlet pressure (pin) bar	0	Density	kg/dm³	0.9983
7	Available system NPSH		Solids	Weight %	0
8	Ambient temperature °C	20			

Pump

9	Pump name	80x65 FS4HA 5 1.5	Frequency		Hz	50
10	Design	End Suction Volute Pump	Installation type			with base, motor
11	Manufacturer	EBARA	Impeller Diameter	Max.	mm	215
12	Speed rpm	1450		Designed	mm	215
13	No. of Stage	1		Min.	mm	175
14	Connection Suction side	JIS 10K	Flow	Operating	m³/h	
15	Connection Discharge side	JIS 10K		Max-	m³/h	44.4
16	Max Working Pressure bar	10		Min-	m³/h	12
17	Shut-off head bar	1.59	Head	Operating	m	
18	Total weight kg	See the table of "Dimensions".		- (Qmax.)	m	9.0
19	Shaft power kW			- (Qmin.)	m	15.8
20			Max. Shaft Power at max. impeller		kW	1.68
21	Required pump NPSH m		Efficiency		%	

Materials

22	Casing	Cast iron	M.S.mating ring	Ceramic
23	Impeller	Bronze	M.S.seal ring	Carbon
24	Shaft	403 Stainless steel		
25	Casing ring	Bronze		
26	Ball bearing	.		
27	Mechanical seal	.		

Motor

28	Manufacturer	TECO	Insulation class		F
29	Type	90L_B3_1.5_3_400	Phases		3~
30	Specific design	TEFC / 50 Hz / Pole pairs 2	Frame size		90 L
31	Rated power kW	1.5	Weight	kg	23.5
32	Number of poles	4	Electric voltage	V	400
33	Speed rpm	1405	Electric current	A	3.48
34	Degree of protection	IP 55			
35					

Remarks

EBARA

Performance curve

Pump name 80x65 FS4HA 5 1.5

Customer	Date 2021-05-06	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID	E-mail

Requested data

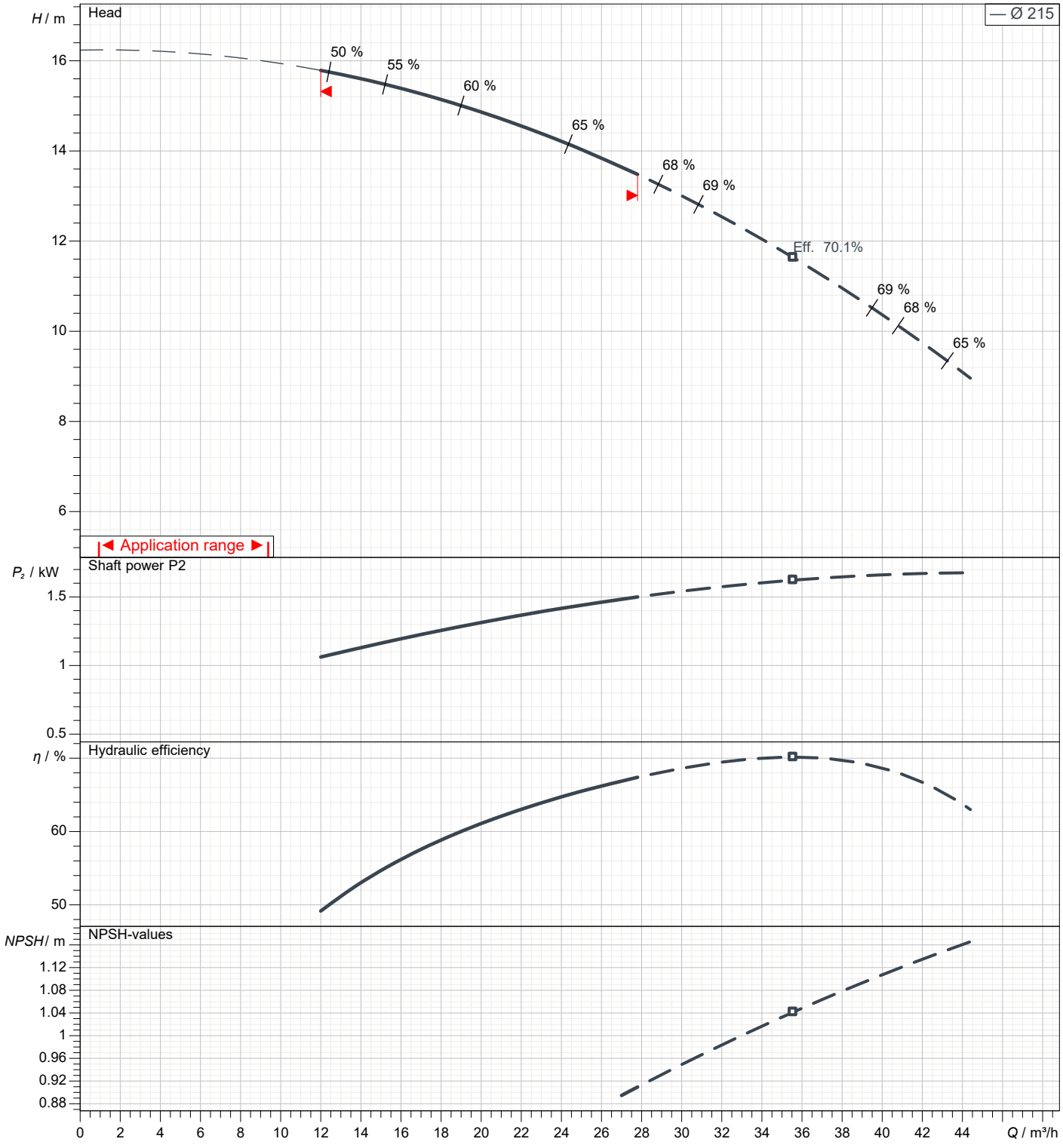
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

Pump

Operating Flow	m³/h		Frequency	Hz	50
Operating Head	m		Number of poles		4
Impeller Diameter Designed	mm	215	Speed	rpm	1450

Test standard: ISO 9906:2012 - Grade3B

Water; 20°C; 0.9983kg/dm³; 1.005mm²/s

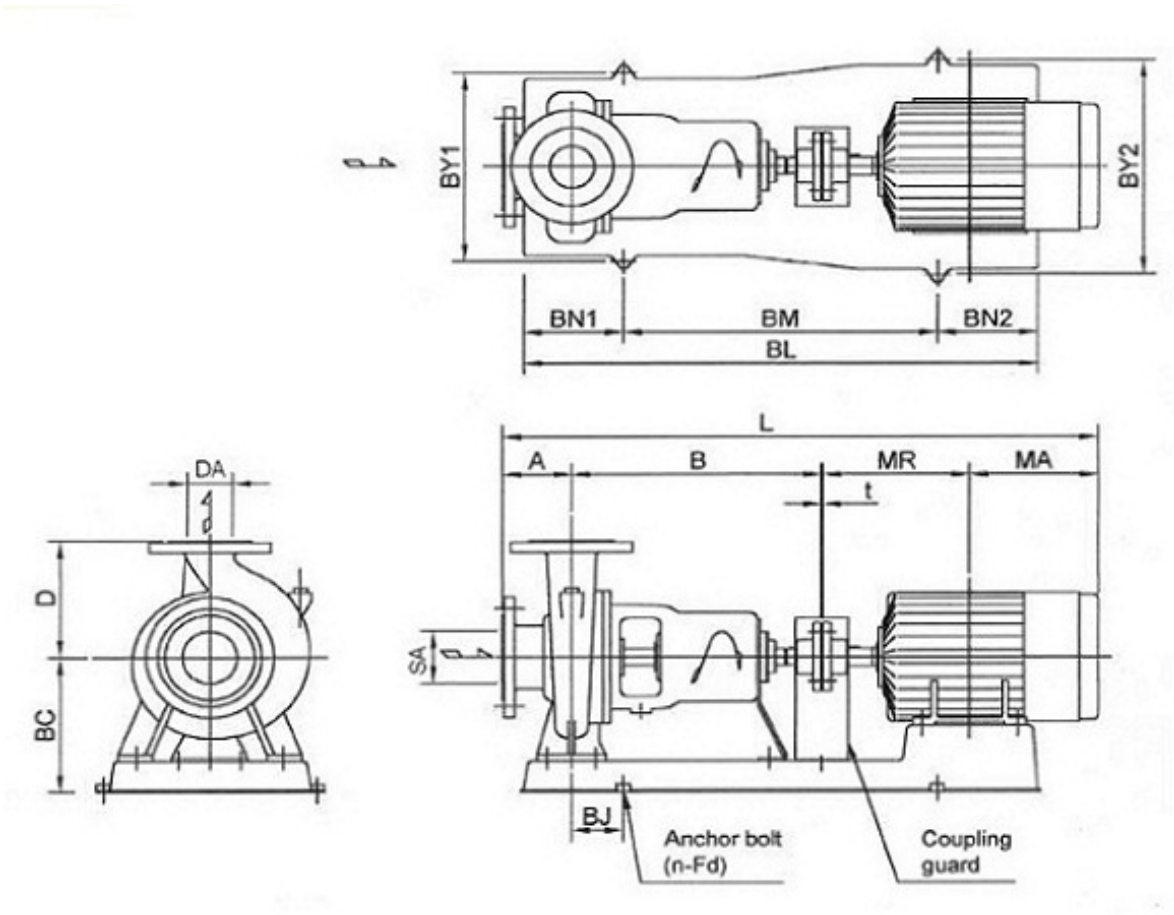


EBARA

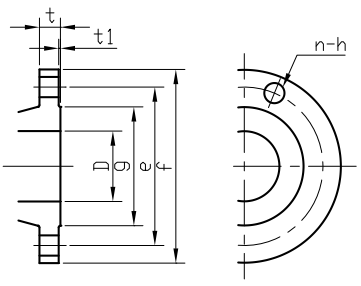
Dimensions

Pump name 80x65 FS4HA 5 1.5

Customer	Date 2021-05-06	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID	E-mail



Flange Dimensions



Total weight : 102.5 kg

Pump dimensions			mm
A	**100**	**MR**	**168.5**
B	**360**	**n**	**4 (Num)**
BC	**220**	**SA**	**80**
BJ	**40**	**t**	**3**
BL	**740**		
BM	**550**		
BN1	**115**		
BN2	**75**		
BY1	**360**		
BY2	**290**		
D	**200**		
DA	**65**		
Fd	**M12**		
L	**795.5**		
MA	**164**		

Suction side	mm
D	80
e	150
f	185
g	126
h	19
n Num	8
t	22
t1	2

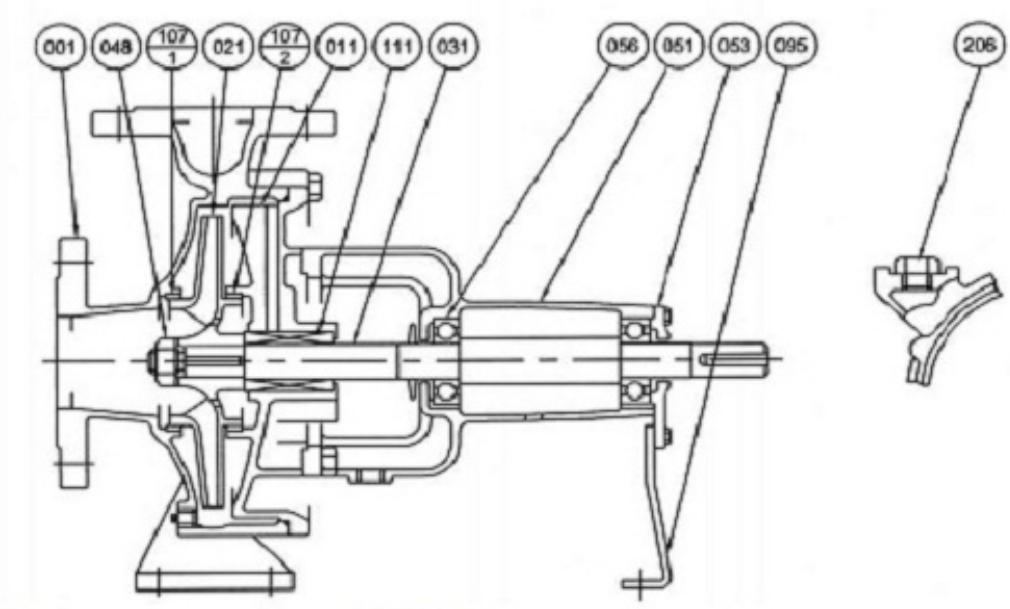
Discharge side	mm
D	65
e	140
f	175
g	116
h	19
n Num	4
t	22
t1	2

EBARA

(1/2)
Construction

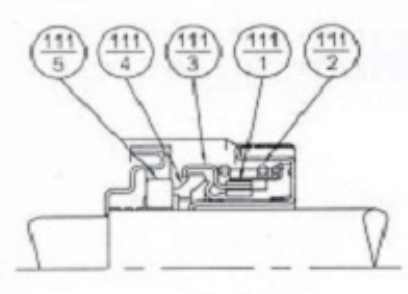
Pump name 80x65 FS4HA 5 1.5

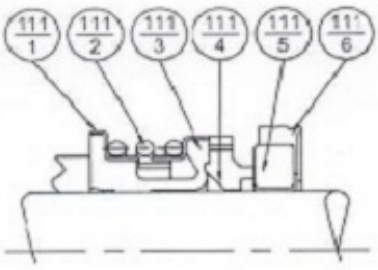
Customer	Date 2021-05-06	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID	E-mail



Model FH
50x40 FSHA; 65x50 FSHA, FSJA;
80x65 FSGA, FSHA, FSJA, FSKA;
100x80 FSGA, FSHA, FSJA;
125x100 FSKA

Model EA
100x65 FSKA; 100x80 FSGCA, FSHCA;
125x100 FSJCA, FSLA;
150x100 FSKA, FSNA;
150x125 FSHA, FSJA, FSKA, FSLA;
200x150 FSHA, FSJA, FSKA, FSLA, FSNA;
250x200 FSLA, FSNA





No.	Part Name	Material	Qty
111-5	Mating Ring	Ceramic	1
111-4	Seal Ring	Carbon	
111-3	Friction Ring	NBR	
111-2	Coil Spring	Stainless Steel	
111-1	Spring Holder		

No.	Part Name	Material	Qty
111-6	Cup Gasket	NBR	1
111-5	Mating Ring	Ceramic	
111-4	Seal Ring	Carbon	
111-3	Bellows	NBR	
111-2	Spring	Stainless Steel	
111-1	Spring Holder		

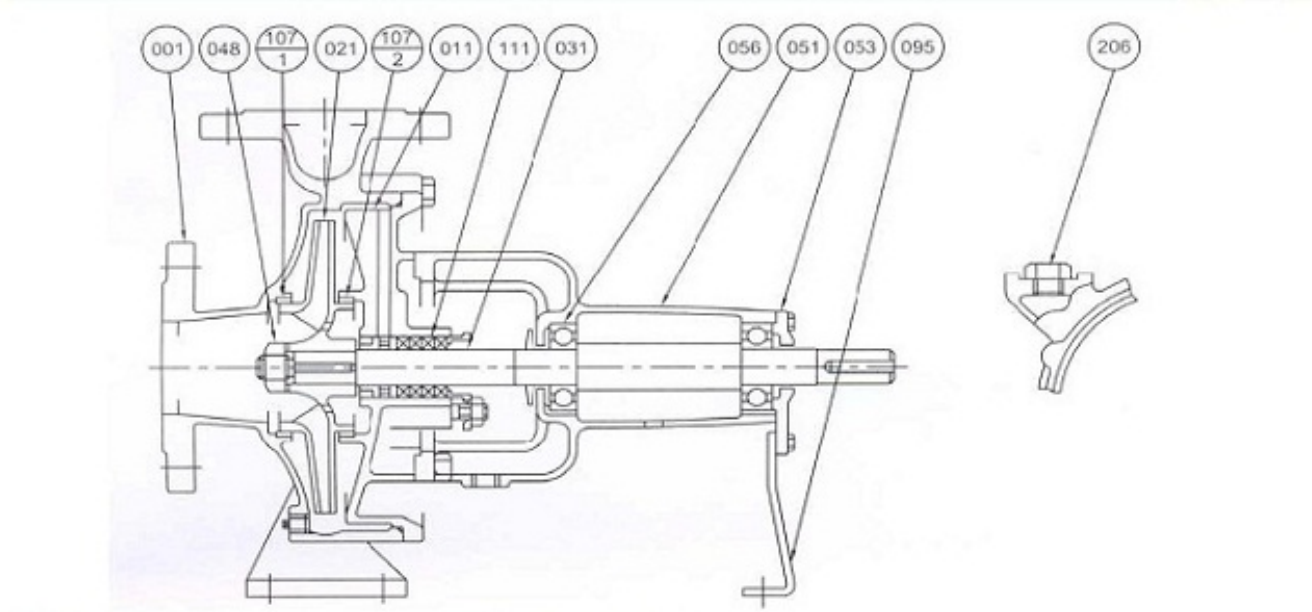
No.	Part Name	Material	Qty
207	Plug	Steel	1
111	Mechanical Seal	-	
107-2	Casing Ring	Bronze	
107-1	Casing Ring		
095	Stay	Steel	1
056	Ball Bearing	-	2
053	Bearing Cover	Cast Iron	1
051	Bearing Housing		
048	Impeller Nut	Brass	
031	Shaft	Stainless Steel	
021	Impeller	Bronze	
011	Casing Cover	Cast Iron	
001	Casing		

EBARA

(2/2)
Construction

Pump name 80x65 FS4HA 5 1.5

Customer	Date 2021-05-06	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID	E-mail

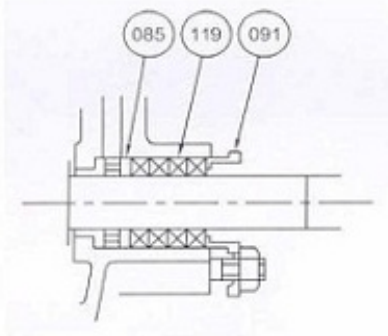


With Lantern Ring

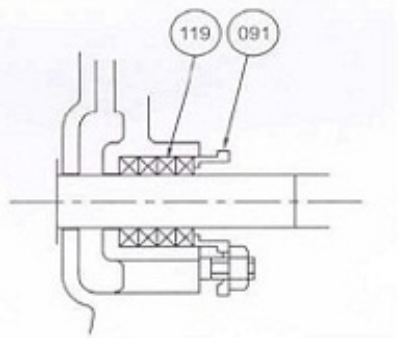
50x40 FSHA; 65x50 FSHA, FSJA;
80x65 FSGA, FSHA;
100x80 FSGA; 125x100 FSLA;
150x100 FSKA, FSNA;
150x125 FSKA, FSLA;
200x150 FSJA, FSLA, FSNA;
250x200 FSLA, FSNA

Without Lantern Ring

80x65 FSJA, FSKA;
100x65 FSKA;
100x80 FSHA, FSJA, FSGCA, FSHCA;
125x100 FSJCA, FSKA;
150x125 FSHA, FSJA;
200x150 FSHA, FSKA;



No.	Part Name	Material	Qty
119	Gland Packing	Non-Asbestos	4 or 5
091	Gland	Bronze	1
085	Lantern Ring		



No.	Part Name	Material	Qty
119	Gland Packing	Non-Asbestos	4 or 5
091	Gland	Bronze	1

No.	Part Name	Material	Qty
207	Plug	Steel	1
111	Gland Packing	Non-Asbestos	4 or 5
107-2	Casing Ring	Bronze	1
107-1	Casing Ring		
095	Stay	Steel	1
056	Ball Bearing	-	2
053	Bearing Cover	Cast Iron	1
051	Bearing Housing		
048	Impeller Nut	Brass	
031	Shaft	Stainless Steel	
021	Impeller	Bronze	
011	Casing Cover	Cast Iron	
001	Casing		