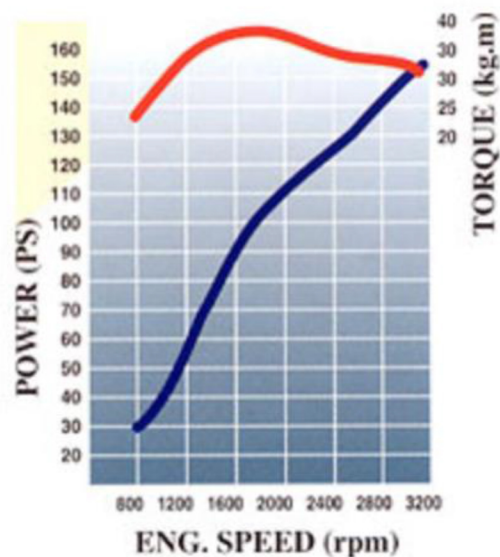




DIESEL FOR WATER PUMP



MODEL	D4DA (116KW/155PS/3,200RPM)		
DISPLACEMENT (cc)	3,907		
BORE x STROKE (mm)	104 x 105		
MAX. POWER (PS/rpm)	155 / 3,200		
MAX. TORQUE (kg.m/rpm)	38 / 1,800		
DIMENSION (mm)	LENTH(BUS/TRK)	845	815
	WIDTH (BUS/TRK)	695	695
	HEIGHT (BUS/TRK)	765.5	765.5
WIEGHT(kg)	DRY (BUS/TRK)	350	350
	WET (BUS/TRK)	365	365
CYCLE	4		
COOLING TYPE	WATER COOLING		
CUMBUSTION TYPE	DI		
NO. OF CYLINDER	4 IN LINE		
FIRING ORDER	1 – 3 – 4 – 2		
COMPRESSION RATIO	18		
INJECTION TIMIG(BTDC)	7 °		
ASPIRATION	TURBO CHARGER INTERCOOLER		
INJECTION PUMP TYPE	NB		
GOVERNOR TYPE	ALL SPEED		
C/CASE	CYL PITCH	120	
	H + h(mm)	304 + 75	
	CYL. LINER	DRY	
IDLE RPM	LOW(BUS/TRK)	650 ± 25	
	HIGH	3,900	
ALTERNATOR(V-A)	BUS	24 – 70	
	TRK	24 – 40	
START MOTOR(V-kW)	24 – 3.2		
LUB. OIL(API)	CD		

Technical data

Pump name

150x100 FS2KA 5

Customer	Date 01-February -2021	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, clean
2	Number of pumps / Reserve	1 / 0	Liquid temperature °C	20
3	Flow m³/h	0	Kin. viscosity mm²/s	1
4	Head m	0	Vapour pressure bar	0.022
5	Geodetic head m	0	PH value	7
6	Inlet pressure (pin) bar	0.1	Density kg/dm³	1
7	Available system NPSH	0	Solids Weight %	0
8	Ambient temperature °C	20		

Pump

9	Pump name	150x100 FS2KA 5	Frequency Hz	50
10	Design	End Suction Volute Pump	Installation type	bare shaft
11	Manufacturer	PTEI	Impeller	Max. mm 333
12	Speed 1/min	2900	Diameter	Designed mm 298
13	No. of Stage	1		Min. mm 266
14	Connection Suction side	JIS 16K	Flow	Operating m³/h
15	Connection Discharge side	JIS 16K		Max- m³/h 294
16	Max Working Pressure bar	16		Min- m³/h 120
17	Shut-off head bar	11.33	Head	Operating m
18	Total weight kg	See the table of "Dimensions".		- (Qmax.) m 77.5
19	Shaft power kW			- (Qmin.) m 113.6
20			Max. Shaft Power at max. impeller kW	133.76
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	without motor	Insulation class	
29	Type	without motor 3	Phases	3~
30	Specific design	without motor / 50 Hz / Pole pairs 1	Frame size	
31	Rated power kW	-	Weight kg	0
32	Number of poles	2	Electric voltage V	0
33	Speed 1/min	-	Electric current A	0
34	Degree of protection	--		
35				

Remarks

Performance curve Pump name 150x100 FS2KA 5

Customer	Date 01-February -2021	Company
Contact	Item no.	Issued by
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E-mail	Project ID	E-mail

Requested data

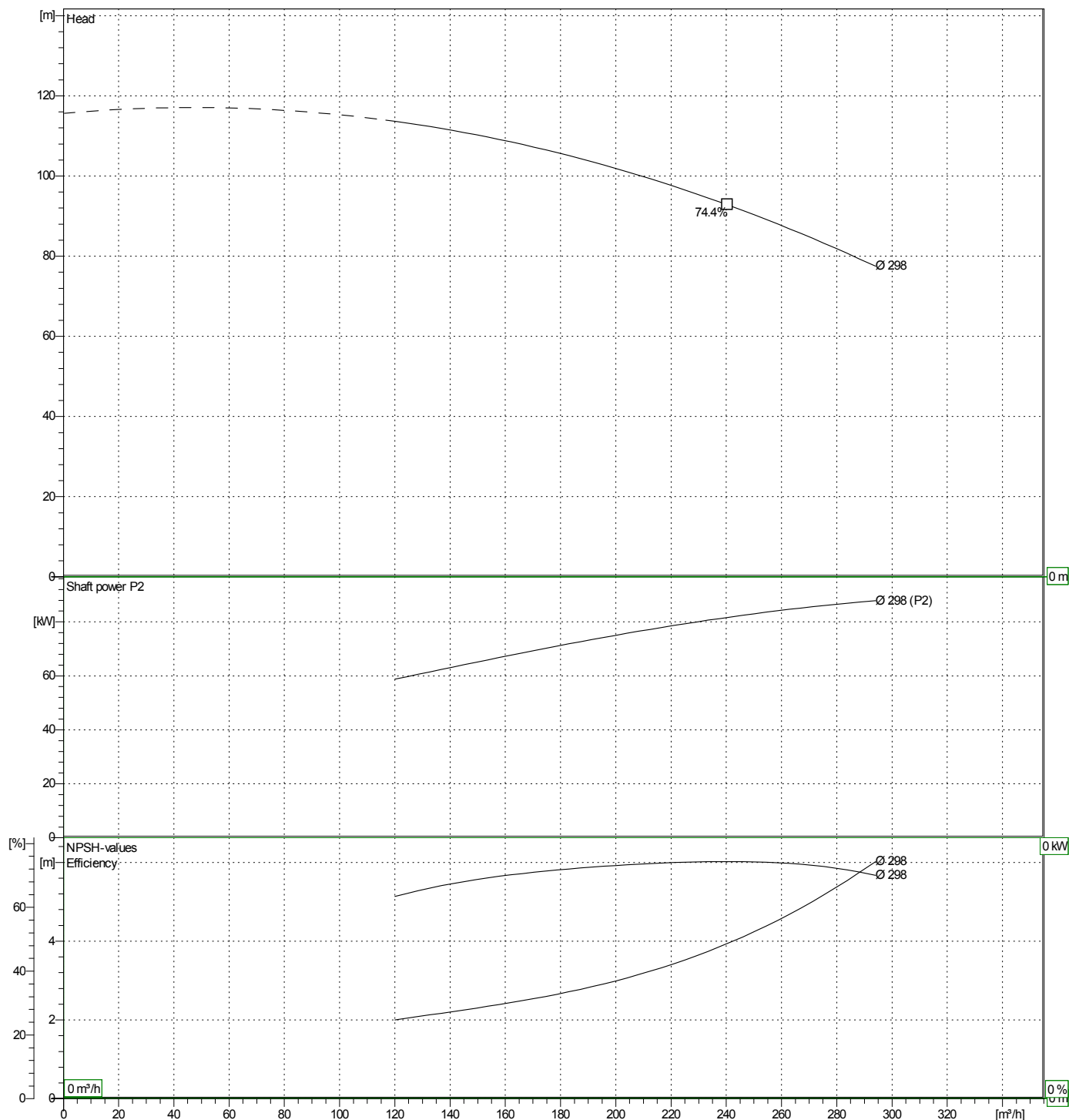
1	Flow	m³/h	0
2	Head	m	0
3	Geodetic head	m	0

Pump

Operating Flow	m³/h	Frequency	Hz	50
Operating Head	m	Number of poles	2	
Impeller Diameter	Designed mm	Speed	1/min	
298				

Test standard: ISO 9906:2012 - Grade3B

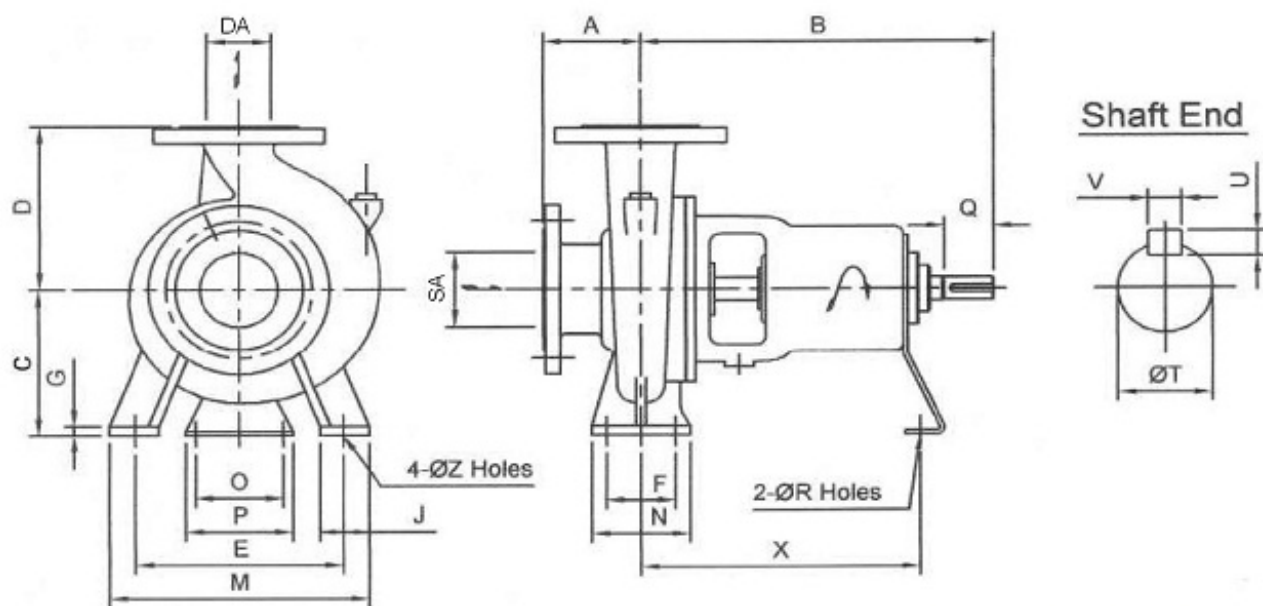
Water, clean [100%] ; 20°C; 0.9983kg/dm³; 1mm²/s



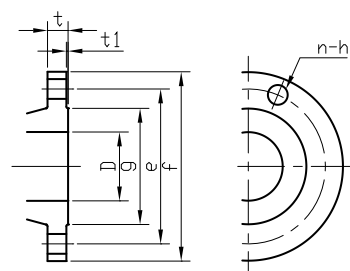
Dimensions

Pump name 150x100 FS2KA 5

Customer	Date 01-February -2021	Company
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Phone	Project	Phone
E-mail	Project ID	E-mail



Flange Dimensions



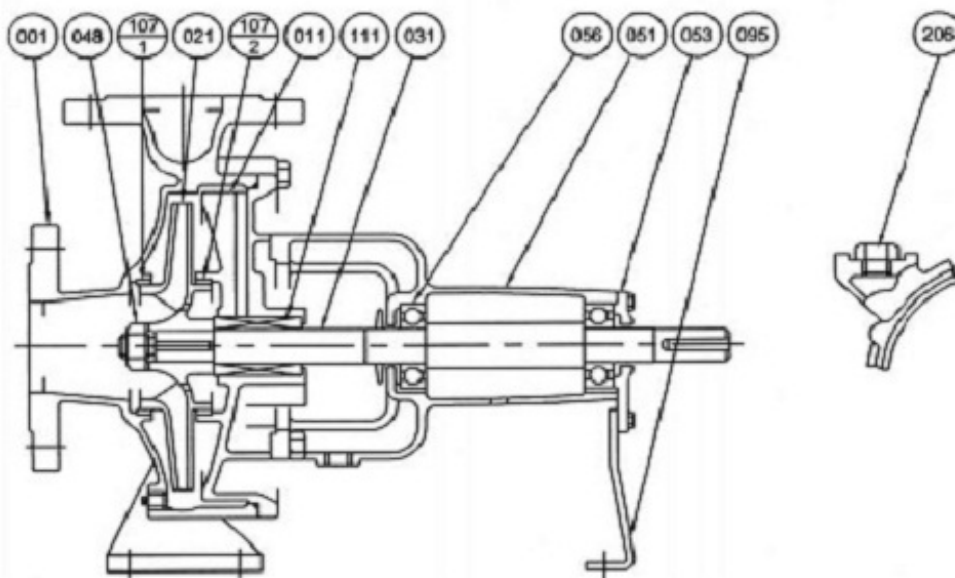
Total weight : 146 kg

Pump dimensions				mm		Suction side		mm		Discharge side		mm	
A	140	Q	95	D	150	D	100						
B	530	R	17	e	260	e	185						
C	250	SA	150	f	305	f	225						
D	315	T	42	g	230	g	160						
DA	100	U	8	h	25	h	23						
E	315	V	12	n Num	12 (Num)	n Num	8 (Num)						
F	120	X	370	t	28	t	26						
G	16	Z	19	t1	2	t1	2						
J	80												
M	400												
N	160												
O	110												
P	150												

(1/2) Construction

Pump name 150x100 FS2KA 5

Customer	Date 01-February -2021	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID	E-mail

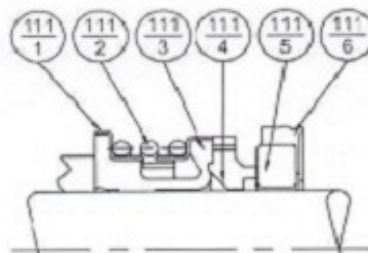
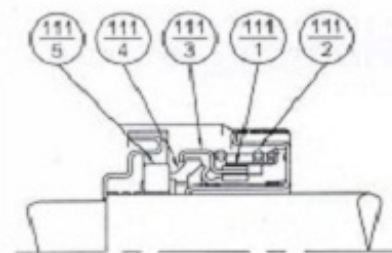


Model FH

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



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

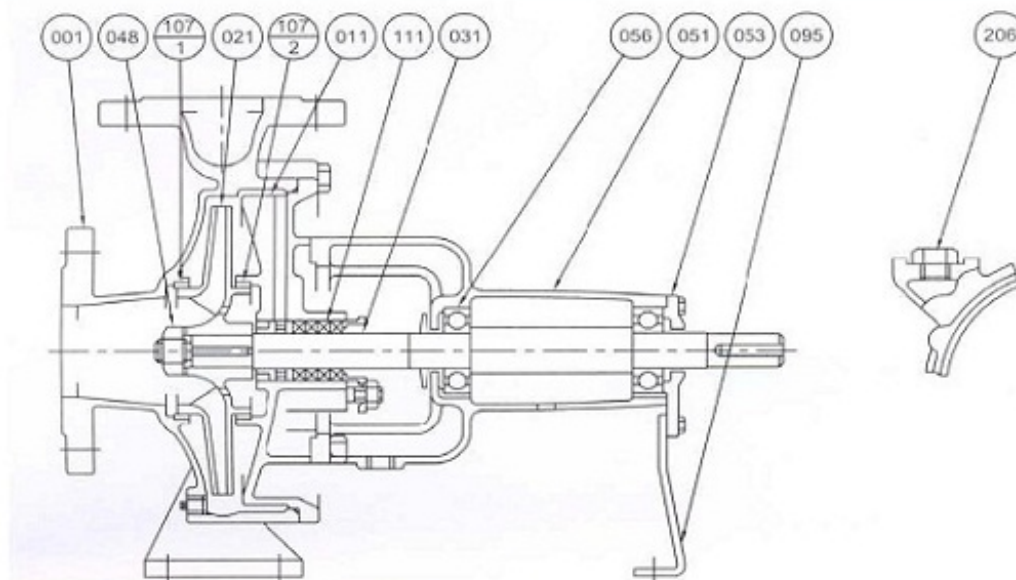
111-6	Cup Gasket	NBR	1
111-5	Mating Ring	Ceramic	
111-4	Seal Ring	Carbon	
111-3	Bellows	NBR	
111-2	Spring	Stainless Steel	
111-1	Spring Holder		
No.	Part Name	Material	Qty

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		
No.	Part Name	Material	Qty

(2/2) Construction

Pump name 150x100 FS2KA 5

Customer	Date 01-February -2021	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID	E-mail

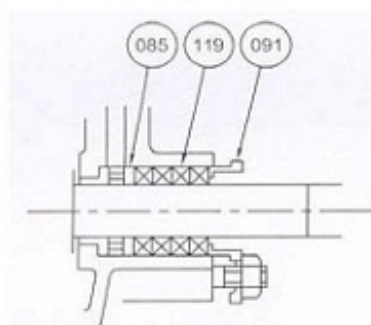


With Lantern Ring

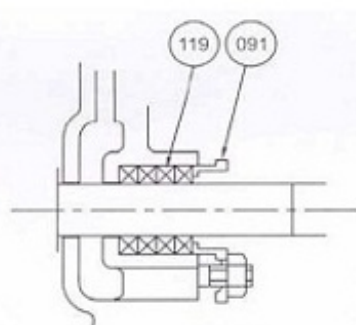
50x40 FSHA; 65x50 FSHA, FSJA;
80x65 FSGA, FSHA;
100x80 FSGA; 125x100 FSLA;
150x100 FSKA, FSNA;
150x125 FSKA, FSLA;
200x150 FSJA, FSLA, FSNA;
250x200 FSLA, FSNA

Without Lantern Ring

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



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		
No.	Part Name	Material	Qty