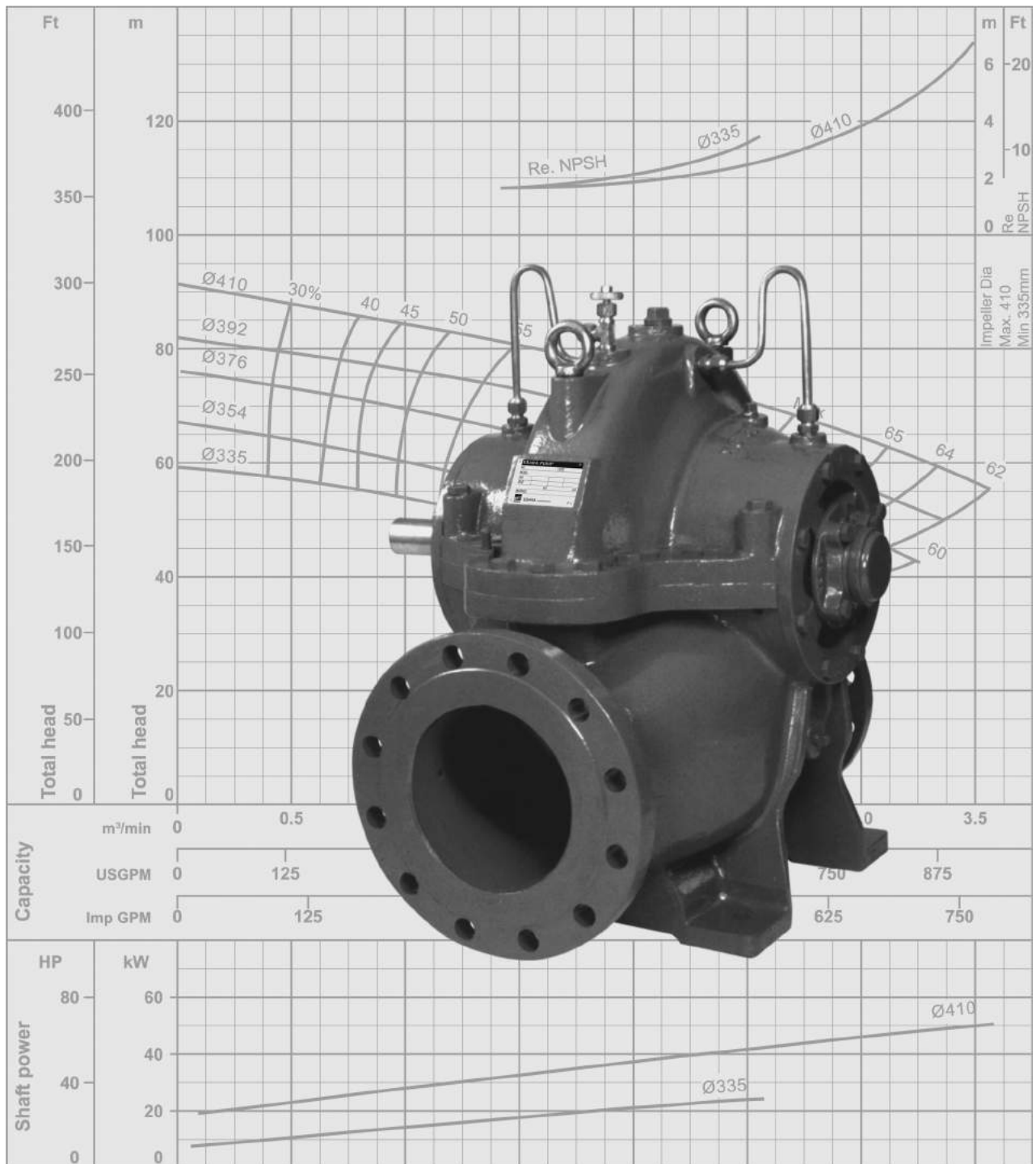




TECHNICAL DATA BOOK

HORIZONTAL SPLIT CASING PUMP

MODEL **CSA/CNA** SUCTION SIZE 100 ~ 400 MM 50Hz



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SELECTION CHART

4 POLE

2 POLE

BY ROTATION

END SUCTION VOLUTE PUMP – 50 Hz

• FSA



• FSSA



• FSDA



HORIZONTAL SPLIT CASING PUMP – 50 Hz

• **CNA / CSA**



SUBMERSIBLE PUMP – 50 Hz

• DS , DVS



• DL , DF



• DLM



MIXED FLOW PUMP (SZ)

• 200 , 250 , 300 , 350 , 400 , 500



SELF PRIMING PUMP (SQPB)

• 50 , 80 , 100 , 150

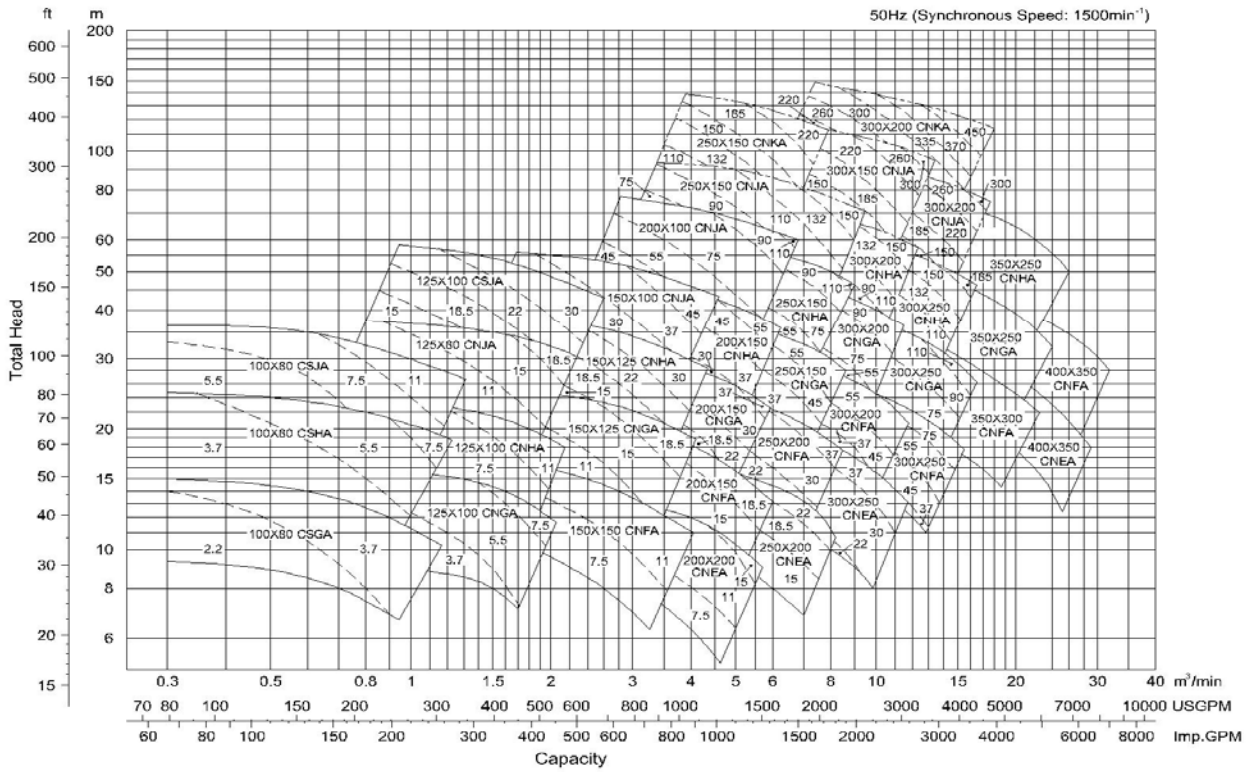


■ **Features**

- Very compact design for ease of installation and permits minimum maintenance.
- Axially split casing allows the easy removal of the top casing for inspection and service.
- A wider range of performance with head up to 150 m.
- High speed drives and vertical mount available.
- Anti-corrosion materials used on the rotating parts.
- High quality sealed and cartridge type bearing unit provide high durability
- High allowable working pressure can ensure stable running.
- Mechanical seal for easy maintenance.

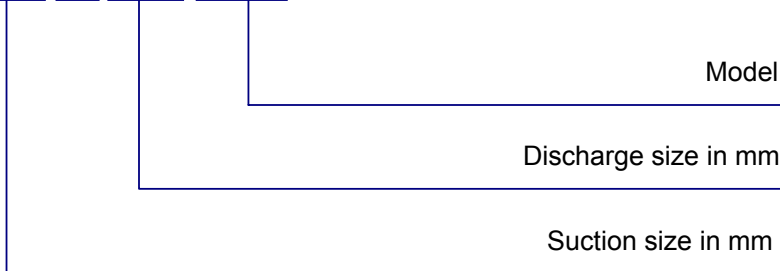
■ **Applications**

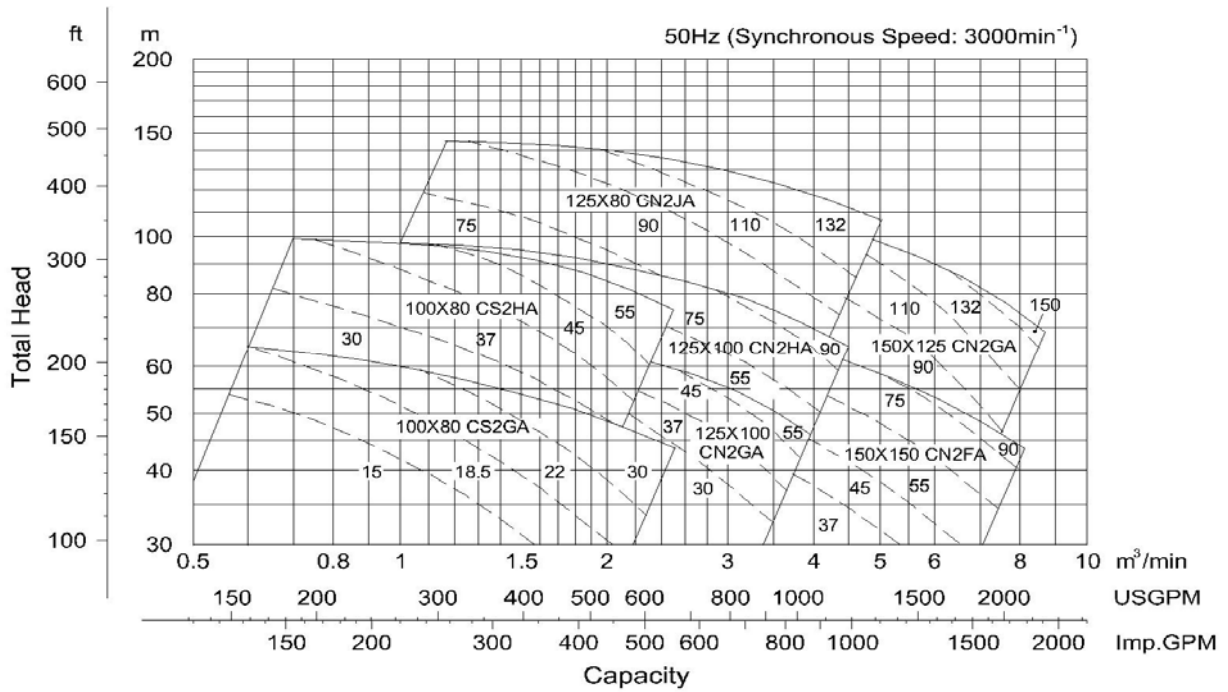
- Water supply
- Hot and cold water circulation
- For cooling tower.
- Irrigation
- Industrial use.
- Drainage
- Sprinkling.
- Air-conditioning.
- For cooling tower.



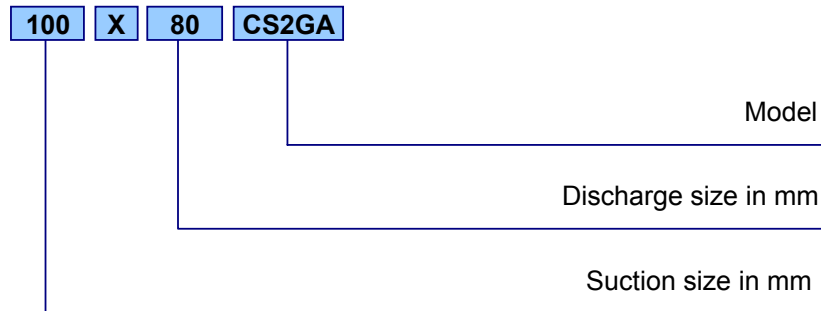
Model Code

100 X 80 CSGA





Model Code



Description		Standard	Optional	
Model		CSA/CNA.		
Liquid Handled	Type of liquid	Clean water, Industrial Water, River Water		
	Temperature	Below 80°C (176°F)	81°C-120°C (177°F-248°F) (only applicable for Mechanical Seal Models)	
Max. Working Pressure		16 bar (16.3 kgf/cm ²)		
Construction	Shaft Seal	Mechanical Seal	Gland Packing	Mechanical Seal
	Bearing	Ball Bearing		
	Lubrication	Grease		
Material	Casing	Cast Iron	Ductile Cast Iron (FCD)	
	Impeller	Bronze (except 300x200 CNKA)	SCS 13, SCS 14	
		SCS 13 for 300x200 CNKA		
	Shaft	SUS 316	SUS 403	SUS304
Shaft Sleeve		Bronze	Bronze	
Flange	Suction	JIS 16 KRF		
	Discharge	JIS 16 KRF		
Accessories				
Standard		Air vent piping, M.Seal or G. Packing, flushing water piping, Lift bolts. Drain piping (only applicable for G. Packing models)		
Option		Common base, Anchor bolts, Shaft coupling, Coupling guard		

- **General**

The contractor shall furnish and install as shown on drawing and as described in the specification of Ebara model _____ Horizontal Split Casing Pump.

Pump and motor shall be mounted on a common heavy base plate will be fabricated by structural Steel or cast iron and directly connected through a heavy-duty flexible coupling, pump shall operate at a synchronous speed 1500 min^{-1} .

Pump shall be capable with design condition of capacity of _____ against a total dynamic head of _____ m liquid temperature of clear water which is not exceeding of _____ °C.

- **Pump Performance**

The pump efficiency is not less than _____ % at requirement of capacity and head (this data refers to page 56 - 64). The NPSH required is not more than _____ m at duty (This data refers to page 56-64).

- **Pump Casing**

Casing is divided at the horizontal center line, the removal of the upper half of casing must allow the complete rotating assembly to be removed without disconnecting.

The Suction and discharge flange casing should be cast iron which has minimum hydro test pressure of _____ kg/cm^2 (this data refers to page 4).

Suction and discharge flange should be Integrated with the lower half of casing.

- **Impeller**

Impeller should be enclosed with double suction type (Single suction type for Model CS) and material of impeller should be made of Bronze (Stainless steel for 300x200 CNKA).

Impeller should be balanced and be fitted to shaft by a key and locked by nut or shaft sleeves.

- **Shaft**

The pump shaft shall be made of Stainless Steel.

- **Casing Wear Ring**

Pump shall be fitted with renewable casing wear rings. The casing wear rings will be locked at its place by a dowel to prevent a rotation.

- **Bearing**

Pump ball bearing shall be deep groove type with heavy-duty grease ball bearings.

- **Stuffing Box and Seal**

- Gland Packing Type

- Stuffing box shall be placed on both sides of pump centerline to seal the pump shaft

- Material of gland packing shall be made of carbonized fiber.

- Lantern ring shall be fitted. Sealing water shall be supplied from pump pressure through piping (Self sealing system).

- Remark : In case of pump suction pressure is positive (not less than 0.5 kg/cm^2) it does not need sealing water.


- Mechanical Seal Type

- Stuffing box shall be placed on both sides of pump centerline to seal the pump shaft.

- Mechanical Seal shall be fitted of self-flushing type.

- **Motor**

- Motor should be not more than _____ kW, it will be operated continuously if is not exceeding its kW rating, exclusives of service factor at the design capacity and head.

1	Customer :	36	Number of pump required :		
2	User :	37	Ebara Model :		
3	Job No. :	Performance			
4	Item No. :	38	Pump Speed : rpm		
5	Doc. No. :	39	Driver Output : kW		
Operating Conditions		40	Efficiency : %		
6	Liquid : water	41	Shaft Power : kW		
7	Liquid Temp. : max. 80°C	42	Req. NPSH (Aq) : m		
8	Specific Gravity : 1.0	Materials			
9	Viscosity : 1 cp	43	Casing : Cast Iron		
10	Capacity : <input type="checkbox"/> l/s <input type="checkbox"/> m ³ /min <input type="checkbox"/> m ³ /H <input type="checkbox"/> USGPM	44	Impeller : Bronze		
11	Total Head : <input type="checkbox"/> meter <input type="checkbox"/> kg/cm ² <input type="checkbox"/> feet	45	Shaft : Stainless Steel		
12	Corrosion / Eros. : non	46	C.W. Ring : Bronze		
13	Solid : non	47	Base Plate : <input type="checkbox"/> Steel <input type="checkbox"/> Cast Iron		
14	Suction Press. :	Accessories (Bare Shaft Pump)			
15	Discharge Press. :	48	Priming cook and priming funnel		
16	Diff. Press. :	Scope of Our Supply for Each Unit			
17	Vapor Press. :	49	<input type="checkbox"/> bare shaft pump <input type="checkbox"/> motor		
18	NPSH Av (Aq) :		<input type="checkbox"/> flexible coupling <input type="checkbox"/> coupling guard		
Constructions			<input type="checkbox"/> pressure gauge <input type="checkbox"/> compound gauge		
19	Nozzles Position : end - suction top - discharge		<input type="checkbox"/> foundation bolts <input type="checkbox"/> base plate		
20	Size (Suction) : _____ mm (discharge) : _____ mm		<input type="checkbox"/> companions flanges (include bolt and packing)		
21	Pump type : end suction volute foot mounted	Shop Test			
22	No. of stage : one	50	Performance Test : <input type="checkbox"/> yes <input type="checkbox"/> No		
23	Type of Impeller : closed type, single suction		Casing Hydro Test : <input type="checkbox"/> yes		
24	Casing Test Pressure Hydro test : _____ kg/m ² Max. Positive Suction Press : _____ kg/m ²		Witnessed Test : (performance) <input type="checkbox"/> yes <input type="checkbox"/> no		
25	Bearing Type : grease lubricated ball bearing	Attachment			
26	Shaft Seal : <input type="checkbox"/> carbonized fiber gland packing <input type="checkbox"/> mechanical seal	51	<input type="checkbox"/> Outline dwg <input type="checkbox"/> Sectional dwg <input type="checkbox"/> Performance curve		
27	Flushing : <input type="checkbox"/> self <input type="checkbox"/> external		<input type="checkbox"/> Spare part list		
28	Rotation : CW viewed from coupling end	Remarks			
29	Connection :				
Motor Driver					
30	Motor Power : _____ kW; 2 poles; 3 phase _____ kW; 2 poles; 3 phase			Voltage : <input type="checkbox"/> 380 V <input type="checkbox"/> 415 V <input type="checkbox"/> 50 HZ <input type="checkbox"/> 60 HZ	
				RPM : <input type="checkbox"/> 1500 min ⁻¹ <input type="checkbox"/> 1750 min ⁻¹ <input type="checkbox"/> 3000 min ⁻¹ <input type="checkbox"/> 3600 min ⁻¹	
31	Type : Three phases, squirrel cage rotor, horizontal foot mounted Protection - totally enclosed fan cooled (TEFC) <input type="checkbox"/> IP-54, indoor inst. <input type="checkbox"/> IP-55, outdoor inst.				
32	Insulation : <input type="checkbox"/> class F <input type="checkbox"/> class B				
33	Starting Method : <input type="checkbox"/> star-delta <input type="checkbox"/> direct on lone				
34	Maker : <input type="checkbox"/> Teco <input type="checkbox"/> ABB <input type="checkbox"/> Leroy Somer <input type="checkbox"/>				
35	Supplied by : <input type="checkbox"/> Customer <input type="checkbox"/>				
		Approved by Customer	Approved by	Made by	

Model	Allowable Pressure for Casing									Material		
	Hydro Test Press	Max. Working Pressure						Max. Suction Pressure		Casing	Impeller	Shaft
		Standard		Option 1		Option 2					Standard	Standard
	kg	kg	psi	kg	psi	kg	psi	kg	psi			
100x80 CSGA	24	16	230	17.6	250	20	285	10	143	Cast Iron	Bronze	Stainless Steel
100x80 CSHA												
100x80 CSJA												
125x100 CSJA												
125x100 CNGA	24	16	230	17.6	250	20	285	10	143	Cast Iron	Bronze	Stainless Steel
125x100 CNHA				17.8	255							
125x80 CNJA												
150x150 CNFA	24	16	230	17.6	250	20	285	10	143	Cast Iron	Bronze	Stainless Steel
150x125 CNGA												
150x125 CNHA				18.2	260							
150x100 CNJA				17.6	250							
200x200 CNEA	24	16	230	-	-	20	285	10	143	Cast Iron	Bronze	Stainless Steel
200x150 CNFA												
200x150 CNGA												
200x150 CNHA												
200x100 CNJA				18.0	257							
250x200 CNEA	24	16	230	-	-	20	285	10	143	Cast Iron	Bronze	Stainless Steel
250x200 CNFA												
250x150 CNGA												
250x150 CNHA				17.6	250							
250x150 CNJA				19.6	280							
250x150 CNKA				-	-							
300x250 CNEA	24	16	230	-	-	20	285	10	143	Cast Iron	Bronze	Stainless Steel
300x200 CNFA												
300x200 CNGA												
300x200 CNHA				18.2	260							
300x150 CNJA				-	-							
300x250 CNFA												
300x250 CNGA												
300x250 CNHA				17.0	243							
300x200 CNJA				-	-							
300x200 CNKA											Stainless Steel	
350x300 CNFA	24	16	230	-	-	20	285	10	143	Cast Iron	Bronze	Stainless Steel
350x250 CNGA												
350x250 CNHA												
400x350 CNEA	24	16	230	-	-	20	285	10	143	Cast Iron	Bronze	Stainless Steel
400x350 CNFA												

Model	Allowable Speed		
	Standard Speed	Optional Speed	
100 x 80 CSGA 100 x 80 CSHA	3000	-	
100 x 80 CSJA 125 x 100 CSJA	1500	* 2000	
125 x 100 CNGA 125 x 100 CNHA	3000	-	
125 x 80 CNJA	1500	* 3000	
150 x 150 CNFA	3000	-	
150 x 125 CNGA 150 x 125 CNHA	1500	* 2000	
150 x 100 CNJA		* 2000	
200 x 200 CNEA 200 x 150 CNFA	1500	* 2000	
200 x 150 CNGA		-	
200 x 150 CNHA		* 2000	
200 x 100 CNJA		-	
250 x 200 CNEA 250 x 200 CNFA	1500	-	
250 x 150 CNGA 250 x 150 CNHA		* 2000	
250 x 150 CNJA		-	
250 x 150 CNKA		-	
300 x 250 CNEA 300 x 200 CNFA		1500	-
300 x 200 CNGA 300 x 200 CNHA	-		
300 x 150 CNJA	-		
300 x 250 CNFA 300 x 250 CNGA	-		
300 x 250 CNHA	-		
300 x 200 CNJA	-		
300 x 200 CNKA	-		
350 x 300 CNFA 350 x 250 CNGA	1500		-
350 x 250 CNHA	-		
400 x 350 CNEA 400 x 350 CNFA	1500	-	

Remarks :

1. Standard Speed

Pump can be operated and runs continuously.

2. Optional Speed

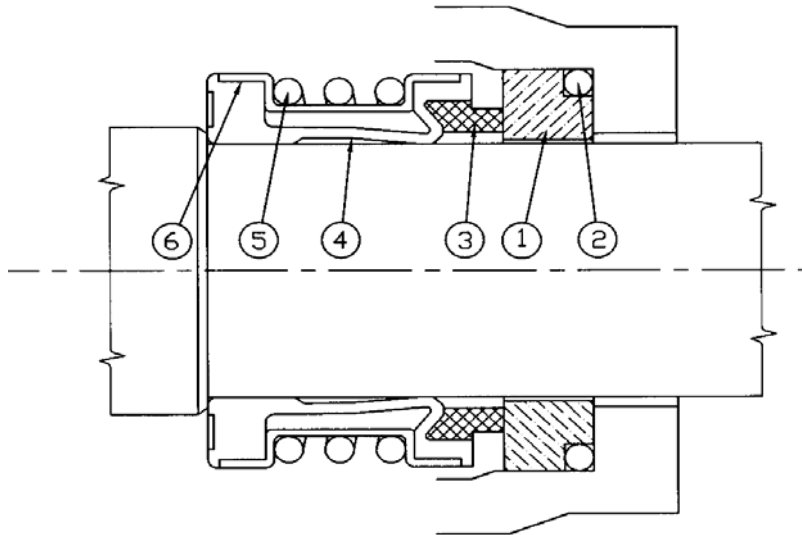
Limit application which will be used for temporary operations such as fire fighting or emergency stand by application through diesel engine driven.

* This speed is available for "Gland packing version" only.

As for mechanical seal, it should be 1500 min⁻¹ (r.p.m) and below.

Model	Mechanical Seal				Side Cover O-Ring			
	Driver (CP) Side		Opposite (CCP) Side					
	Type	Size	Type	Size	Size			
100 x 80 CSGA	T2100/BR1C1/M	35	T2100/BR1C1/M	35	145			
100 x 80 CSHA								
100 x 80 CSJA		45		180				
125 x 100 CSJA								
125 x 100 CNGA	T2100/BR1C1/M	45	T2100/BR1C1/M	35	150			
125 x 100 CNHA								
125 x 80 CNJA								
150 x 150 CNFA	T2100/BR1C1/M	45	T2100/BR1C1/M	35	180			
150 x 125 CNGA		55		45				
150 x 125 CNHA		45		35				
150 x 100 CNJA		55		45				
200 x 200 CNEA		T2100/BR1C1/M		45		T2100/BR1C1/M	35	195
200 x 150 CNFA								
200 x 150 CNGA	55		45	205				
200 x 150 CNHA								
200 x 100 CNJA					65		55	
250 x 200 CNEA	T2100/BR1C1/M	45	T2100/BR1C1/M	35	195			
250 x 200 CNFA		55		45		205		
250 x 150 CNGA								
250 x 150 CNHA		65		55		230		
250 x 150 CNJA		T2100/BR1C1/BS		75		T2100/BR1C1/BS	65	260
250 x 150 CNKA	85		75	275				
300 x 250 CNEA	T2100/BR1C1/M	55	T2100/BR1C1/M	45	205			
300 x 200 CNFA		65		55		230		
300 x 200 CNGA								
300 x 200 CNHA		T2100/BR1C1/BS		75		T2100/BR1C1/BS	65	260
300 x 150 CNJA				85			75	
300 x 250 CNFA	T2100/BR1C1/M	65	T2100/BR1C1/M	55	230			
300 x 250 CNGA		75		65		260		
300 x 250 CNHA								
300 x 200 CNJA		T2100/BR1C1/BS		85		T2100/BR1C1/BS	75	275
300 x 200 CNKA				95			85	
350 x 300 CNFA	T2100/BR1C1/BS	75	T2100/BR1C1/M	65	260			
350 x 250 CNGA		85	T2100/BR1C1/BS	75	290			
350 x 250 CNHA								
400 x 350 CNEA	T2100/BR1C1/BS	85	T2100/BR1C1/M	65	275			
400 x 350 CNFA			T2100/BR1C1/BS	75	290			

Model	Mechanical Seal				Side Cover O-Ring	Sleeve				
	Driver (CP) Side		Opposite (CCP) Side			C.P. Side	C.C.P. Side			
	Type	Size	Type	Size	Size	Type	Size			
100 x 80 CSGA	T2100/BR1C1/M	45	T2100/BR1C1/M	45	145	45	45			
100 x 80 CSHA										
100 x 80 CSJA										
125 x 100 CSJA		55			180	55				
125 x 100 CNGA	T2100/BR1C1/M	55	T2100/BR1C1/M	45	150	55	45			
125 x 100 CNHA										
125 x 80 CNJA										
150 x 150 CNFA	T2100/BR1C1/M	55	T2100/BR1C1/M	45	180	55	45			
150 x 125 CNGA		65		55		65	55			
150 x 125 CNHA		55		45		55	45			
150 x 100 CNJA		65		55		65	55			
200 x 200 CNEA	T2100/BR1C1/M	55	T2100/BR1C1/M	45	195	55	45			
200 x 150 CNFA										
200 x 150 CNGA										
200 x 150 CNHA		65		55	205	65		55		
200 x 100 CNJA	T2100/BR1C1/BS	75		65	230	75	65			
250 x 200 CNEA	T2100/BR1C1/M	55	T2100/BR1C1/M	45	195	55	45			
250 x 200 CNFA		65		55				205	65	55
250 x 150 CNGA										
250 x 150 CNHA	T2100/BR1C1/BS	75		65	230	75	65			
250 x 150 CNJA		85	T2100/BR1C1/BS	75	260	85	75			
250 x 150 CNKA	T2100/BR1C1/BS	100	T2100/BR1C1/BS	90	275	100	90			
300 x 250 CNEA	T2100/BR1C1/M	65	T2100/BR1C1/M	55	205	65	55			
300 x 200 CNFA		75		65				230	75	65
300 x 200 CNGA	T2100/BR1C1/BS	85	T2100/BR1C1/BS	75	260	85	75			
300 x 200 CNHA				100				90	275	100
300 x 150 CNJA		75	T2100/BR1C1/M	65	230	75	65			
300 x 250 CNFA		85	T2100/BR1C1/BS	75	260	85	75			
300 x 250 CNGA	100	90		275				100	90	
300 x 250 CNHA										
300 x 200 CNJA										
350 x 300 CNFA	T2100/BR1C1/BS	85	T2100/BR1C1/BS	75	260	85	75			
350 x 250 CNGA								290		
350 x 250 CNHA		100		90	290	100		90		
400 x 350 CNEA	T2100/BR1C1/BS	100	T2100/BR1C1/BS	90	275	100	75			
400 x 350 CNFA							290		90	



Part No.	Part Name	Material	Qty/unit
1	Mating Ring	Ceramic	1
2	O-ring	Nitrile	1
3	Primary Ring	Carbon	1
4	Bellows	Nitrile	1
5	Spring	316 Stainless Steel	1
6	Drive Band	316 Stainless Steel	1

Model	Driver (CP) Side						Driver (CP) Side							
	Stuffing Box Data				Gland Packing		Stuffing Box Data				Gland Packing			
	Sleeve Size (mm)	Inner Dia. (mm)	Depth (mm)	Lantern Ring Width (mm)	Size (mm)	Qty.	Sleeve Size (mm)	Inner Dia. (mm)	Depth (mm)	Lantern Ring Width (mm)	Size (mm)	Qty.		
100 x 80 CSGA	45	65	71	15	45x65x10	5	45	65	71	15	45x65x10	5		
100 x 80 CSHA														
100 x 80 CSJA														
125 x 100 CSJA	55	75	72		55x75x10									
125 x 100 CNGA	55	75	72	15	55x75x10	5	55	75	72	15	55x75x10	5		
125 x 100 CNHA														
125 x 80 CNJA														
150 x 150 CNFA	55	75	72	15	55x75x10	5	55	75	72	15	55x75x10	5		
150 x 125 CNGA	70	95	90	18	70x95x12.5		70	95	90	18	70x95x12.5			
150 x 125 CNHA	55	75	72	15	55x75x10		55	75	72	15	55x75x10			
150 x 100 CNJA	70	95	90	18	70x95x12.5		70	95	90	18	70x95x12.5			
200 x 200 CNEA	55	75	72	15	55x75x10	5	55	75	72	15	55x75x10	5		
200 x 150 CNFA														
200 x 150 CNGA														
200 x 150 CNHA														
200 x 100 CNJA														
250 x 200 CNEA	55	75	72	15	55x75x10	5	45	65	71		45x65x10	5		
250 x 200 CNFA	70	95	90	18	70x95x12.5		55	75	72	15	55x75x10			
250 x 150 CNGA	80	109	103	20	80x109x14.5		70	95	90	18	70x95x12.5			
250 x 150 CNHA	90	119			90x119x14.5		80	109	103	20	80x109x14.5			
250 x 150 CNJA	100	129			100x129x14.5		90	119		20	90x119x14.5			
250 x 150 CNKA					100x129x14.5		90	119		20	90x119x14.5			
300 x 250 CNEA	70	95	90	18	70x95x12.5	5	55	75	72	15	55x75x10	5		
300 x 200 CNFA	80	109	103	20	80x109x14.5		70	95	90	18	70x95x12.5			
300 x 200 CNGA	90	119			90x119x14.5		80	109	103		80x109x14.5			
300 x 200 CNHA	100	129			100x129x14.5		90	119			90x119x14.5			
300 x 150 CNJA	80	109	80x109x14.5	70	95		90		70x95x12.5					
300 x 250 CNFA	90	119			90x119x14.5		80	109		20	80x109x14.5			
300 x 250 CNGA	100	129			100x129x14.5		90	119	103		90x119x14.5			
300 x 250 CNHA	110	139		22	110x139x14.5		100	129			100x129x14.5			
350 x 300 CNFA	90	119	103	20	90x119x14.5		5	80	109				80x109x14.5	5
350 x 250 CNGA	100	129			100x129x14.5		90	119	103	20	90x119x14.5			
350 x 250 CNHA	90	119			90x119x14.5	80	109			80x109x14.5				
400 x 350 CNEA	100	129			100x129x14.5	90	119			90x119x14.5				
400 x 350 CNFA	90	119			90x119x14.5	5	80	109			80x109x14.5	5		
400 x 350 CNFA	100	129			100x129x14.5	5	90	119			90x119x14.5	5		

Model	Impeller Data							No. of Vanes	Weight Approx. (kg)
	Impeller Dia.		Casing Ring		Total Eye Area (cm ²)	❖ (kg m ²)			
	Max (mm)	Min (mm)	Dia. (mm)	Clearance (mm)					
100 x 80 CSGA	218	175	124	0.240 – 0.344	73.7	0.4	5	4.2	
100 x 80 CSHA	266	214	132	0.260 – 0.383	79.7	0.7		6.3	
100 x 80 CSJA	326	266	136		82.7	1.3		13	
125 x 100 CSJA	410	335	168	0.310 – 0.433	147.5	2.5		21	
125 x 80 CNJA	327	264	144 / 140	0.280 – 0.403	179.3	1.3	5	14	
125 x 100 CNGA	218	178	136 / 132	0.260 – 0.383	154	0.4		10	
125 x 100 CNHA	265	210			166.8	0.7		12	
150 x 150 CNFA	227	194	152 / 148	0.280 – 0.403	226.9	0.5	5	14	
150 x 125 CNGA	274	227	162 / 158	0.310 – 0.433	244.4	0.8		16.5	
150 x 125 CNHA	333	274	172 / 168		283.4	1.4		20	
150 x 100 CNJA	397	327			264.4	2.3		24	
200 x 200 CNEA	218	183	168	0.310 – 0.437	263.4	0.6	5	9.7	
200 x 150 CNFA	254	218	188	0.340 – 0.482	284.2	0.8		13.3	
200 x 150 CNGA	307	254			306.8	1		15.4	
200 x 150 CNHA	373	307			331.4	2.9		20.2	
200 x 100 CNJA	461	373	200		356.6	3.6	32		
250 x 200 CNEA	244	205	188	0.340 – 0.482	349.4	0.7	5	12.2	
250 x 200 CNFA	285	244	200		357.6	1.3		16.8	
250 x 150 CNGA	344	285	212		0.380 – 0.522	386		1.9	21.1
250 x 150 CNHA	418	344		417.2		3.3		24.4	
250 x 150 CNJA	517	418	224		448.8	6.2	40		
250 x 150 CNKA	638	517	236	0.570 – 0.672	479.6	10.3	76		
300 x 250 CNEA	274	230	200	0.340 – 0.482	417.6	1.3	5	17.2	
300 x 200 CNFA	320	274	212	0.380 – 0.522	449.8	2.4		23.3	
300 x 200 CNGA	386	320	224		485.6	4.2		29	
300 x 200 CNHA	469	386	236	0.420 – 0.562	524.8	5.4		36.6	
300 x 150 CNJA	580	469	250		565.4	8.2		65	
300 x 250 CNFA	308	258	224	0.380 – 0.522	526	2.4		23.8	
300 x 250 CNGA	359	308	236	0.420 – 0.562	567	3.9		31.9	
300 x 250 CNHA	433	359	250		611.2	5.6		36	
300 x 200 CNJA	526	433	264	0.480 – 0.641	720.6	7.7		52.5	
300 x 200 CNKA	651	527	278	0.590 – 0.731	711.6	13.2		80	
350 x 300 CNFA	345	290	250	0.420 – 0.562	664	4.1	5	40.4	
350 x 250 CNGA	403	345	267	0.300 – 0.518	715.2	7.6		41	
350 x 250 CNHA	486	437	280	0.480 – 0.641	772.1	13.3		49.8	
400 x 350 CNEA	325	285	264	0.480 – 0.641	812	5.4	5	51	
400 x 350 CNFA	388	325	280		836.3	7.6		50	

❖ Including GD² of coupling.❖ Do not apply above GD² when making water hammer analysis.

Model	Bearing		❖ Grease Replenishment		Shaft Data			
	Driver (CP) Side	Opposite (CCP) Side	CP SIDE	CCP SIDE	Approx. Wt. (kg)	Max. HP per 1000rpm (HP)	Shaft Dia. Coupling (mm)	Shaft Dia. Impeller (mm)
			(gr)	(gr)				
100 x 80 CSGA	CUCFC 206C	UCFC 206E	2.2	2.2	3.4	11	28	42
100 x 80 CSHA								
100 x 80 CSJA								
125 x 100 CSJA	CUCFC208C				6.2	27	38	50
125 x 100 CNGA	CUCFC 208C	UCFC 206E	3.9	2.2	6.4	11	28	42
125 x 100 CNHA					6.4			
125 x 80 CNJA					6.4			
150 x 150 CNFA	CUCFC 208C	UCFC 206E	3.9	2.2	7.6	27	38	50
150 x 125 CNGA	CUCFC 210C	UCFC 208E	5.4	3.9	11.6	55	48	60
150 x 125 CNHA	CUCFC 208C	UCFC 206E	3.9	2.2	7.6	27	38	50
150 x 100 CNJA	CUCFC 210C	UCFC 208E	5.4	3.9	11.6	55	48	60
200 x 200 CNEA	CUCFC 208C	UCFC 206E	3.9	2.2	7.6	27	38	50
200 x 150 CNFA								
200 x 150 CNGA								
200 x 150 CNHA	CUCFC 210C	UCFC 208E	5.4	3.9	12	58	48	60
200 x 100 CNJA	CUCFC 212C	UCFC 210E	10	5.4	18.3	83	55	70
250 x 200 CNEA	CUCFC 208C	UCFC 206E	3.9	2.2	8.1	27	38	50
250 x 200 CNFA	CUCFC 210C	UCFC 208E	5.4	3.9	12	55	48	60
250 x 150 CNGA								
250 x 150 CNHA								
250 x 150 CNJA	CUCFC 212C	UCFC 210E	10	5.4	18.8	83	55	70
250 x 150 CNKA	CUCFC 216C	UCFC 214CE	19.2	13.6	38	209	75	90
300 x 250 CNEA	CUCFC 210C	UCFC 208E	5.4	3.9	12.9	55	48	60
300 x 200 CNFA	CUCFC 212C	UCFC 210E	10	5.4	18.8	83	55	70
300 x 200 CNGA					19.1			
300 x 200 CNHA								
300 x 200 CNJA	CUCFC 214C	UCFC212E	13.6	10	27.3	136	65	80
300 x 150 CNJA	CUCFC 216C	UCFC 214CE	19.2	13.6	38	209	75	90
300 x 250 CNFA	CUCFC 212C	UCFC210E	10	5.4	20.1	83	55	70
300 x 250 CNGA	CUCFC 214C	UCFC212E	13.6	10	27.9	136	65	80
300 x 250 CNHA								
300 x 200 CNJA								
300 x 200 CNKA	CUCFC 218C	UCFC 216CE	25.5	19.2	55	304	85	100
350 x 300 CNFA	CUCFC 214C	UCFC 212E	13.6	10	30.6	136	65	80
350 x 250 CNGA	CUCFC 214C	UCFC 212E	13.6	10	30.6	136	65	80
350 x 250 CNHA	CUCFC 216C	UCFC 214CE	19.2	13.6	40.2	209	75	90
400 x 350 CNEA	CUCFC 214C	UCFC 212E	13.6	10	45	136	65	80
400 x 350 CNFA	CUCFC 216C	UCFC 214CE	19.2	13.6	48	209	75	90

❖ Replenishment: Continuous operation 4300 hours.

Technical Data - Coupling (1/4)

50 Hz

4-Poles (1500 rpm)

Model	MOTOR		SHAFT DIAMETER		COUPLING CLA	
	POWER	FRAME	MOTOR	PUMP		
	kW	No.	dM (mm)	dP (mm)		
100 x 80 CSGA	2.2	100L	28	28	125	
	3.7	112M				
100 x 80 CSHA	3.7	112M	28	28	125	
	5.5	132S				
	7.5	132M	38		160	
100 x 80 CSJA	5.5	132S	38	28	160	
	7.5	132M				
	11	160M	42			
125 x 100 CSJA	15	160L	42	38	160	
	18.5	180MC				
	22	180LC	48		180	
	30	200LC				
125 x 100 CNGA	3.7	112M	28	28		125
	5.5	132S				
	7.5	132M	38		160	
125 x 100 CNHA	7.5	132M	38	38	160	
	11	160M				
	11	160M	42			38
15	160L					
18.5	180MC	48	180			
150 x 150 CNFA	7.5	132M	38	38	160	
	11	160M				
	11	160M	42			48
15	160L					
18.5	180MC	48				
150 x 125 CNGA	18.5	180MC	48	38	180	
	22	180LC				
	30	200LC	55			200
150 x 125 CNHA	30	200LC	55	48	200	
	37	225SC				
	45	225MC	60			224
150 x 100 CNJA	7.5	132M	38	38	160	
	11	160M				
	15	160L	42			
200 x 200 CNEA	15	160L	42	38	160	
	18.5	180MC				
	18.5	180MC	48		38	180
22	180LC					
30	200LC	55	200			
200 x 150 CNGA	37	225SC	60	48	224	
	30	200LC				
	37	225SC	60		200	
	45	225MC				
55	250SC	70	250			
200 x 150 CNHA	45	225MC	60	48		224
	55	250SC				
	75	250MC	70		55	250
	90	280SC				
45	225MC	60	55	224		
55	250SC					
75	250MC	70		55	250	
90	280SC					

4-Poles (1500 rpm)

Model	MOTOR		SHAFT DIAMETER		COUPLING CLA		
	POWER	FRAME	MOTOR	PUMP			
	kW	No.	dM (mm)	dP (mm)			
250 x 200 CNEA	15	160L	42	38	160		
	18.5	180MC	48		180		
	22	180LC					
250 x 200 CNFA	22	180LC	48	48	180		
	30	200LC	55		200		
	37	225SC	60		224		
250 x 150 CNGA	37	225SC	60	48	224		
	45	225MC					
	55	250SC				70	250
250 x 150 CNHA	55	250SC	70	55	250		
	75	250MC					
	90	280SC				80	280
250 x 150 CNJA	75	250MC	70	65	250		
	90	280SC			80	280	
	110	280MC	85		315		
	132	315SC					
	150	315MC					
250 x 150 CNKA	132	315SC	85	75	315		
	150	315MC					
	185	315MB					
	220	315AB				95	355
300 x 250 CNEA	22	180LC	48	48	180		
	30	200LC	55		200		
	37	225SC	60		224		
300 x 200 CNFA	37	225SC	60	55	224		
	45	225MC					
	55	250SC				70	250
300 x 200 CNGA	55	250SC	70	55	250		
	75	250MC					
	90	280SC				80	280
300 x 200 CNHA	90	280SC	80	65	280		
	110	280MC					
	132	315SC				85	315
	150	315MC					
300 x 150 CNJA	150	315MC	85	75	315		
	185	315MB					
	220	315AB					
	260	315CB				95	355
	300	315CB					
300 x 250 CNFA	37	225SC	60	55	224		
	45	225MC					
	55	250SC				70	250
	75	250MC					
300 x 250 CNGA	75	250MC	70	65	250		
	90	280SC				80	280
	110	280MC					
300 x 250 CNHA	110	280MC	80	65	280		
	132	315SC				85	315
	150	315MC					

4-Poles (1500 rpm)

Model	MOTOR		SHAFT DIAMETER		COUPLING CLA	
	POWER	FRAME	MOTOR	PUMP		
	kW	No.	dM (mm)	dP (mm)		
300 x 200 CNJA	185	315MB	85	75	315	
	220	315AB	95			
	260	315CB				
	300	315CB				
	335	315DB				
300 x 200 CNKA	260	315CB	95	85	355	
	300	315CB				
	335	315DB				
	370	355AB				
	450	355CB			400	
350 x 300 CNFA	75	250MC	80	65	250	
	90	280SC	85		280	
	110	280MC	80		280	
350 x 250 CNGA	110	280MC		85	65	315
	132	315SC				
	150	315MC				
	185	315MB				
350 x 250 CNHA	185	315MB	85	75	315	
	220	315AB	95			
	260	315CB				
	300	315CB				
	335	315DB	355			
400 x 350 CNEA	90	280SC	80	65	280	
	110	280MC	85		315	
	132	315SC				
	150	315MC				
400 x 350 CNFA	150	315MC	85	75	315	
	185	315MB	95			
	220	315AB			355	

2-Poles (3000 rpm)

Model	MOTOR		SHAFT DIAMETER		COUPLING CLA
	POWER	FRAME	MOTOR	PUMP	
	kW	No.	dM (mm)	dP (mm)	
100x80 CSGA	15	160M	42	28	160
	18.5	160L			
	22	180MA			
	30	200LA			
100x80 CSHA	30	200LA	55	28	180
	37	200LA			
	45	225MA			
125x100 CNGA	30	200LA	55	28	200
	37	200LA			
	45	225MA			
	55	250SA			
125x100 CNHA	45	225MA	60	38	224
	55	250SA			
	75	250MA			
	90	280SA			
125x80 CNJA	75	250MA	60	38	224
	90	280SA			
	110	280MA			
150x150 CNFA	55	250SA	60	38	224
	75	250MA			
	90	280SA			
	110	280MA			
150x125 CNGA	90	280SA	65	48	250
	110	280MA			
	132	315SA			
	150	315MA			

Part No.	Part Name	Standard Material	Qty / Unit	❖ Expected Life	
				Year	Hours
042-1, 042-2	Shaft Sleeves (Packing)	Bronze	1 Set	1	8,000
040-1, 040-2	Shaft Sleeves (Mechanical Seal)	Bronze	1 Set		8,000
051-1, 051-2	Bearing Unit	-	1 Set	3	25,000
107 or 107-1 & 107-2	Casing Wear Rings	Bronze	1 Set	2	16,000
111-1, 111-2	Mechanical Seals	-	1 Set	1	8,000
119-1, 119-2	Gland Packings	Carbonized Fiber	1 Set		8,000
117-01	Gasket (Casing)	Press Board or Asbestos	1	When the Casing is disassembled	
117-02, -03	Gasket (Sleeve)		1 Set	When the Shaft Sleeve is disassembled	
	Coupling Rubber	NBR	1 set	2	16,000

❖ Expected life of spare parts may be considered as shown in the above table.

Part Name	Material (JIS Code)	Standard		Optional Inner Surface
		Inner Surface	Outer Surface	
Casing	Cast Iron (FC)	1 coat of Zinc chromate primer	Under coat - 1 coat of Zinc chromate primer	1 coat of Tar epoxy resin
Side Cover Bearing Support (Gland packing Type)	Cast Iron (FC)		Finish coat - 1 coat of Phthalic resin enamel	
Common Base	Cast Iron (FC)	Under coat - 1 coat of Zinc chromate primer	Finish coat - 1 coat of Phthalic resin enamel	
	Steel			

Inspections and Test

50 Hz

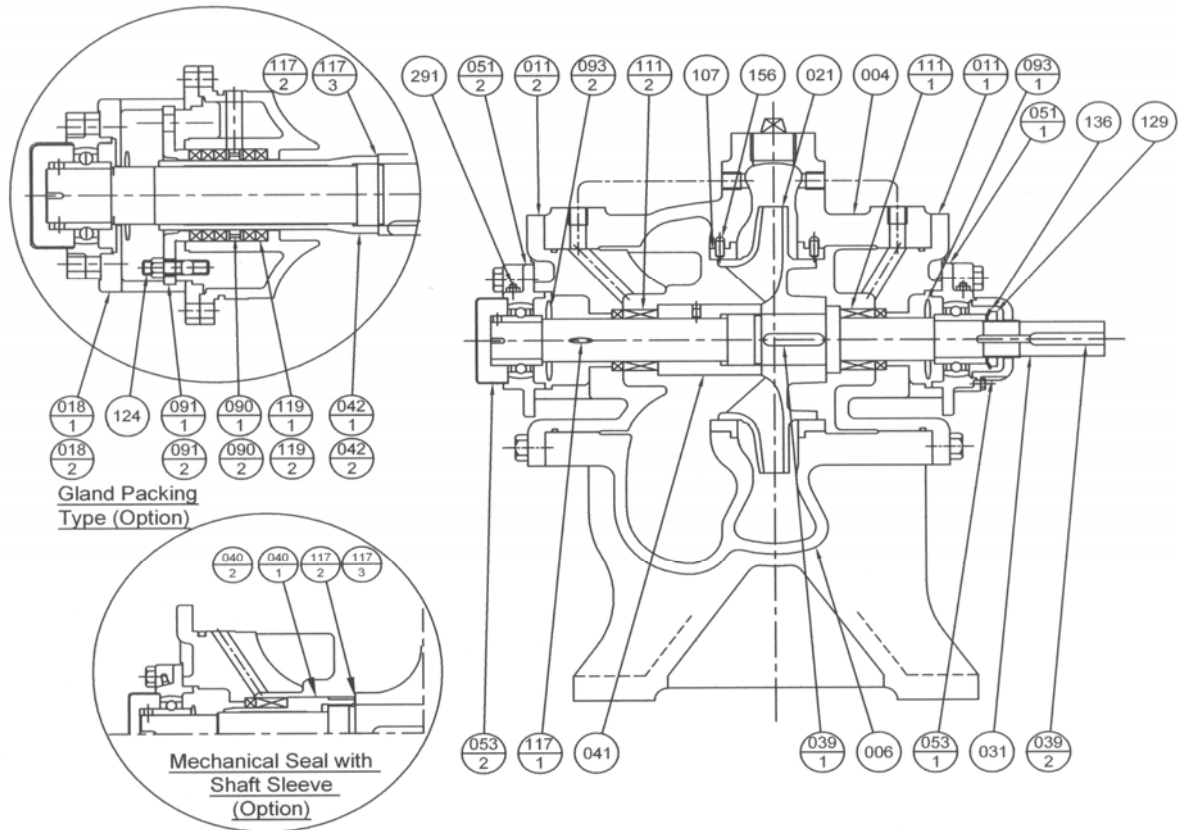
Item Check	Standard		Option	
Material Inspection	EI	Material chemical composition and mechanical Properties are checked periodically according to JIS.	CR/ES	Material certificat is to be submitted
Hydrostatic test *3	EN	Hydrostatic test is to be performed on casing using fresh water at normal temperature. Iron	EN	Hydrostatic test record is to be submitted
Balancing test *3	EN	Impeller is to be subject to balancing test	EN	
Assembly dimensional inspection *3	EN	Dimensions of the followings are to be subject to inspection * Position of foundation bolt hole * Position of suction & discharge flange * Relative positions of suction and discharge flange and foundation bolt hole.	CR	Outline dimensional inspection record is to be submitted.
Performance test General performance *1	ES	Capacity, total head, pump power input, and speed of rotation are to be measured and pump efficiency to be calculated. Measurement point are to be 5 points within the range from shutoff point 125% rated capacity. Judgement is to be based on JIS Testing Code B8301 9.1 (1)	CR	Judgement is to be based on following standards. * JIS Testing Code B8301 9.1 (2) * ISO 2548 Part 1 Class C (as requested by customer)
Bearing Vibration	EN	Vibration is to be measured on bearing housing at rated capacity. Judgement is to be based on JIS Testing Code B8301 9.4.1	CR	Measured record is to be submitted
Performance test Bearing Temperature	EN	Temperature is to be measured at saturated point of the temperature increase. Judgement is to be based on JIS Testing Code B8301 9.4.2	CR	Measurement record is to be submitted.
NPSH	NA		CR	Measurement record is to be performed for Req'd NPSH at above or below rated capacity
	EN	Internal Ebara Standard	CR	Noise level is to be measured at rated capacity. *2
Shipping Inspection	ES	Shipping Inspection is to be performed based on EBARA shipping inspection check sheet.	ES	

NOTE :**CR** : Ebara Inspector Witness Point (Record shall be submitted)**EI** : Ebara Inspector Witness Point (Record shall be not submitted)**EN** : Ebara Inspector Witness Point (Not Recorded but stamp/markings/OK inspection label)**ES** : Ebara Inspector Witness Point (Record shall be kept)**NA** : Not Applied.

*1 Performance test based on JIS B8301 " Testing Methods for Centrifugal Pumps, Mixed Flow Pumps and Axial Flow Pump" and JIS B8302 "Measurement Methods of Pump Discharge".

*2 Measured Value on pump noise is considered as reference value because its include background noise effect of motor, discharge valve, etc.

*3 Judgement is based on Ebara Standard.



Gland Packing Type (Option)

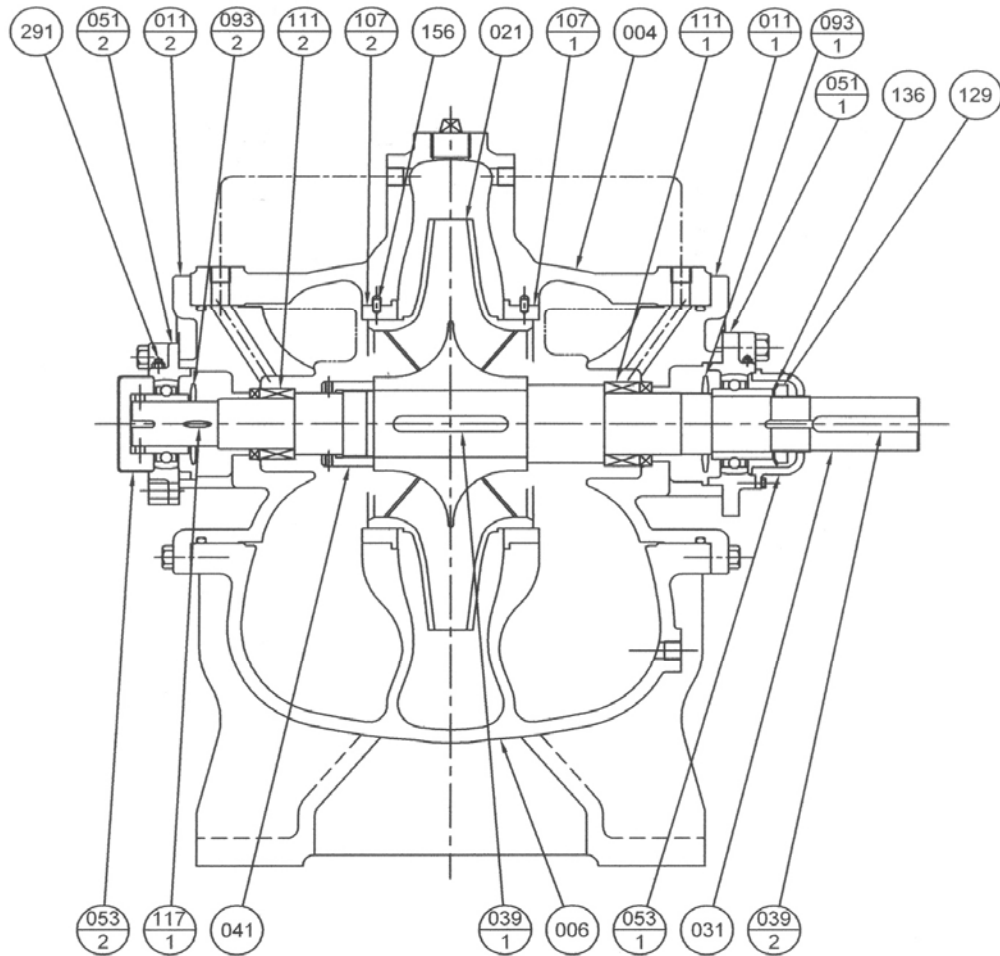
042-2	Shaft Sleeve (CCP Side)	BC6	1	119-2	Shaft Sleeve (CCP Side)	Carbonised Fiber	5
042-1	Shaft Sleeve (CP Side)			119-2	Shaft Sleeve (CP Side)	Carbonised Fiber	5
018-2	Bearing Support (CCP Side)	FC200	1	090-2	Lantern Ring (CCP Side)	BC6	1
018-1	Bearing Support (CP Side)			090-1	Lantern Ring (CP Side)		
124	Gland Bolt	C3604BD-F	4	091-2	Gland (CCP Side)		
				091-1	Gland (CP Side)		

Mechanical Seal with Shaft Sleeve Type (Option)

040-2	Shaft Sleeve (CCP Side)	BC6	1	117-3	Sleeve Gasket (CCP Side)	V#6500	1
040-1	Shaft Sleeve (CP Side)	BC6		117-2	Sleeve Gasket (CP Side)	V#6500	

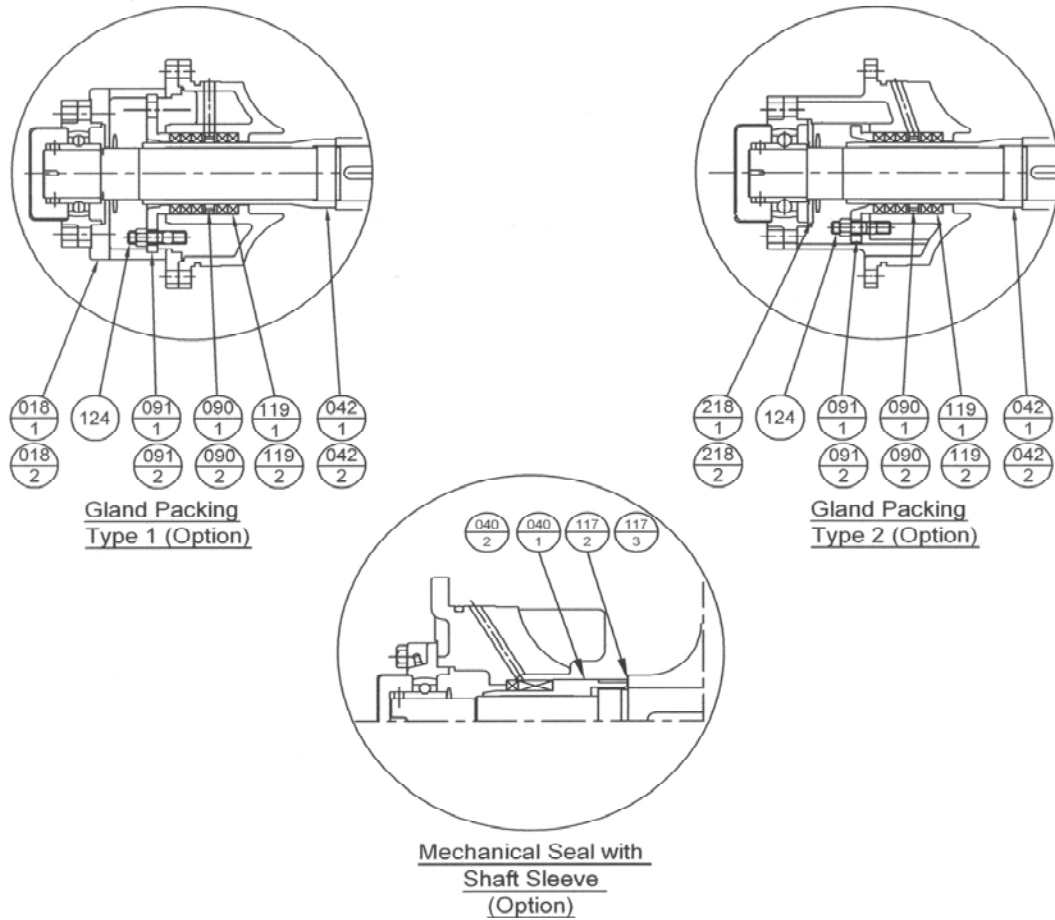
Mechanical Seal Type (Standard)

051-2	Bearing Unit	FC200	1	291	Grease Nipple	C3604BD-F	2	
051-1	Bearing Unit			156	Lock Pin	SUS304		
041	Impeller Nut	BC6	1	136	Bearing Washer	SS400	1	
039-2	Coupling Key	S50C		129	Bearing Nut			
039-1	Impeller Key	316 Stainless Steel	1	117-1	Gasket (Casing)	V#6500	1	
031	Shaft			111-2	Mechanical Seal	-		
021	Impeller	FC250	1	111-1	Mechanical Seal	-	1	
011-2	Side Cover			107	Casing Wear Ring	BC6		2
011-1	Side Cover			093-2	Deflector (CCP Side)	Rubber		
006	Casing Lower Half			093-1	Deflector (CP Side)			
004	Casing Upper Half	053-2	Bearing Cover	FC200	1			
		053-1	Bearing Cover					



Mechanical Seal Type (Standard)

051-2	Bearing Unit	FC200	1	291	Grease Nipple	C3604BD-F	2
051-1	Bearing Unit			156	Lock Pin	SUS304	
041	Impeller Nut	BC6	1	136	Bearing Washer	SS400	1
039-2	Coupling Key	S50C		129	Bearing Nut	V#6500	
039-1	Impeller Key	316 Stainless Steel		117-1	Gasket (Casing)	-	
031	Shaft	Steel		111-2	Mechanical Seal	-	
021	Impeller	BC6		111-1	Mechanical Seal	-	
011-2	Side Cover	FC250		107	Casing Wear Ring	BC6	2
011-1	Side Cover			093-2	Deflector (CCP Side)	Rubber	1
006	Casing Lower Half			093-1	Deflector (CP Side)		
004	Casing Upper Half			053-2	Bearing Cover	FC200	
		053-1		Bearing Cover			
No.	Part Name	Material	Qty	No.	Part Name	Material	Qty



Gland Packing Type 2 (Option)

042-2	Shaft Sleeve (CCP Side)	BC6	1	119-2	Gland Packing (CCP Side)	Carbonised Fiber	5
042-1	Shaft Sleeve (CP Side)			119-1	Gland Packing (CP Side)	Carbonised Fiber	5
218-2	Bearing Cover Plate (CCP Side)	FC150	1	090-2	Lantern Ring (CCP Side)	BC6	1
218-1	Bearing Cover Plate (CP Side)			090-1	Lantern Ring (CP Side)		
124	Gland Bolt	C3604BD-F	4	091-2	Gland (CCP Side)		
				091-1	Gland (CP Side)		

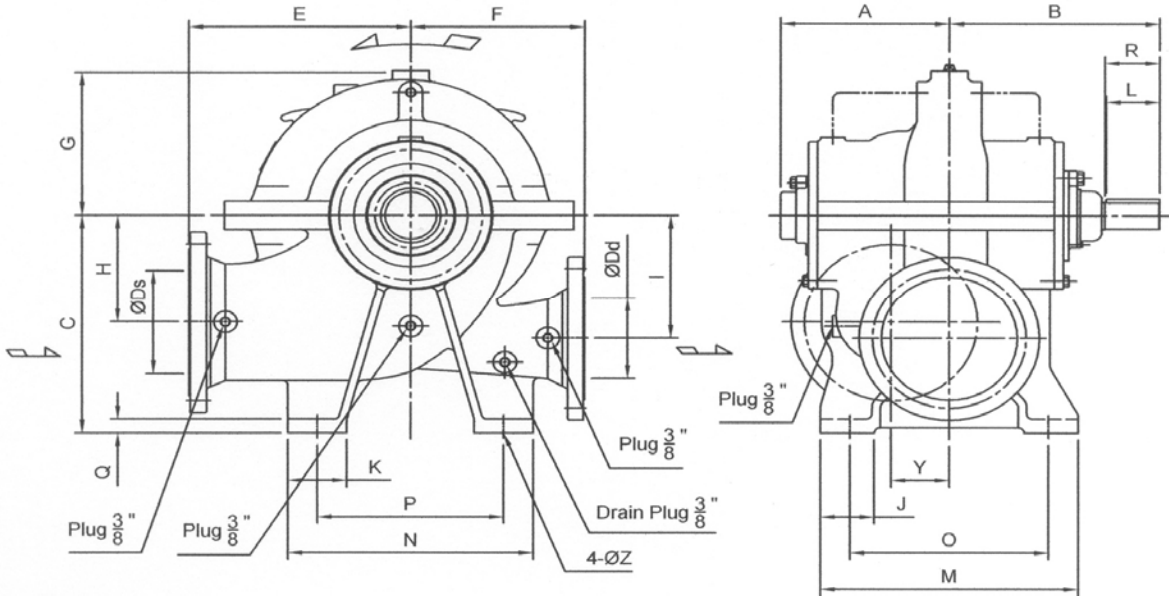
Gland Packing Type 1 (Option)

042-2	Shaft Sleeve (CCP Side)	BC6	1	119-2	Gland Packing (CCP Side)	Carbonised Fiber	5
042-1	Shaft Sleeve (CP Side)			119-1	Gland Packing (CP Side)	Carbonised Fiber	5
018-2	Bearing Support (CCP Side)	FC200	1	090-2	Lantern Ring (CCP Side)	BC6	1
018-1	Bearing Support (CP Side)			090-1	Lantern Ring (CP Side)		
124	Gland Bolt	C3604BD-F	4	091-2	Gland (CCP Side)		
				091-1	Gland (CP Side)		

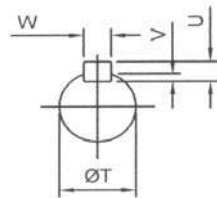
Mechanical Seal with Shaft Sleeve Type (Option)

040-2	Shaft Sleeve (CCP Side)	BC6	1	117-3	Sleeve Gasket (CCP Side)	V#6500	1
040-1	Shaft Sleeve (CP Side)	BC6		117-2	Sleeve Gasket (CP Side)	V#6500	
No.	Part Name	Material	Qty	No.	Part Name	Material	Qty

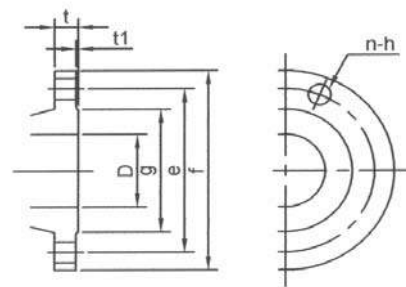
■ **Pump**



■ **Shaft End**



■ **Flange**



Dimension - Flange

D	f	e	g	t1	t	n	h
mm	mm	mm	mm	mm	mm		mm
80	200	160	135	2	24	8	23
100	225	185	160	2	26	8	23
125	270	225	195	2	26	8	25

Dimension - Pump

Model	Size		Pump														Shaft						wt kg			
	Ds	Dd	A	B	C	E	F	G	H	I	J	K	M	N	O	P	Q	Y	Z	L	R	T		U	V	W
100 x 80 CSGA						270	240	169	140	140																143
100 x 80 CSHA	100	80	221	250	295	280	220	185	150	160	60	70	300	290	250	230	20	70	19	56	68	28	8	5	10	165
100 x 80 CSJA							230	202	160	180												63				
125 x 100 CSJA	125	100	247	325	375	350	280	263	200	230	90	100	430	400	350	300	25	80		80	82	38			12	280

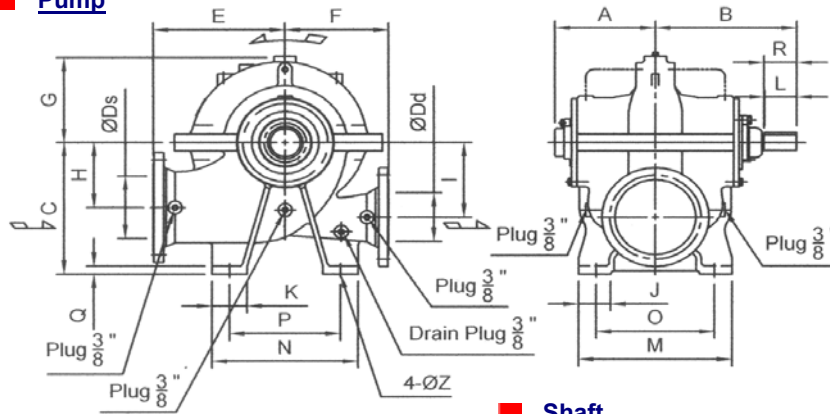
Unit: mm, unless otherwise stated

Dimensions - Bare Shaft Pump CNA

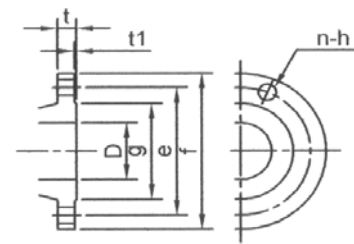
50 Hz

(Standard : Mechanical Seal Type)

Pump



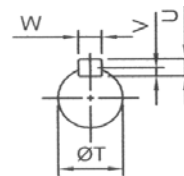
Flange



Dimension - Flange

D mm	f mm	e mm	g mm	t1 mm	t mm	n	h mm
80	200	160	135	2	24	8	23
100	225	185	160	2	26	8	23
125	270	225	195	2	26	8	25
150	305	260	230	2	28	12	25
200	350	305	275	2	30	12	25
250	430	380	345	2	34	12	27
300	480	430	395	3	36	16	27
350	540	480	440	3	38	16	33
400	605	540	495	3	42	16	33

Shaft



Dimension - Pump

Model	Size		Pump																	Shaft							wt kg
	Ds	Dd	A	B	C	E	F	G	H	I	J	K	M	N	O	P	Q	Y	Z	L	R	T	U	V	W		
125x100 CNGA	125	100				290	181		150																	209	
125x100 CNHA		80	231	350	295	300	250	195	150	160	60	70	300	290	250	230	20	-	19	80	82	38	8	5	10	242	
125x80 CNJA						330	226		190	70	80	340	320	280	250											250	
150x150 CNFA	150	150	262	370		330	290	205	180	170																253	
150x125 CNGA		125	271	395	355		260	224		190	80	90	380	360	310	270	25	-	19	80	82	38	8	5.5	14	275	
150x125 CNHA				262	370		350	280	243	190	210															270	
150x100 CNJA		100	271	395	390	380	290	269		240	90	100	430	400	350	300										330	
200x200 CNEA	200	200				300	223		190	190																270	
200x150 CNFA		150	263	370	375	355		224		210	90	100	430	400	350	300	25	-	19	80	82	38	8	5	10	280	
200x150 CNGA							285	245		210																310	
200x150 CNHA				282	395	390	375	295	268	200	230															355	
200x100 CNJA	100	305	450	445	420	335	309		270	100	110	480	450	390	340				24	100	112	55	10	6	16	445	
250x200 CNEA	250	200	273		425		243	210	210																	360	
250x200 CNFA		150	282	395		395	315	247		240	100	110	480	450	390	340	25	-	24	80	92	48	9	5.5	14	380	
250x150 CNGA						445		276		240																415	
250x150 CNHA				315	450		430	325	299	220	260															500	
250x150 CNJA				350	500	495	470	355	346		300															605	
250x150 CNKA				382	530	500	505	430	407	290	345	110	120	550	520	450	400	30	-		125	141	75	12	8	20	835
300x250 CNEA	300	250	302	415			274		235	235																435	
300x200 CNFA		200	315	450		445		280		270																490	
300x200 CNGA				315	470			300		270																520	
300x200 CNHA				350	500		465	365	332		290															625	
300x150 CNJA		150	382	530	500	520	405	384		250	335	110	120	550	520	450	400	30	-	24	110	124	65	11	7	18	785
300x250 CNFA				335	470			306		260																	570
300x250 CNGA		250				495		313		260																	620
300x250 CNHA				360	500		495	405	313		295																615
300x200 CNJA						520		337		275	295																860
300x200 CNKA		200	382	530	500	525	415	379		320																	1070
		415	585	560	570	475	436		290	380	140	150	620	700	500	550	35	-	26	140	156	85	14	9	22	1030	
350x300 CNFA	350	300					345		310	130																800	
350x250 CNGA		250	386	530		600	560	450	350	310	135	150	620	700	500	550	38	-	24	110	125	65	11	7	18	790	
350x250 CNHA				414	560			440	373	315	330															845	
400x350 CNEA	400	350	451	600		630	570	470	355	320	140															1030	
400x350 CNFA				439	585		625	510	385	305	344	150	150	700	700	550	550	38	-	26	125	140	75	12	7.5	20	1035

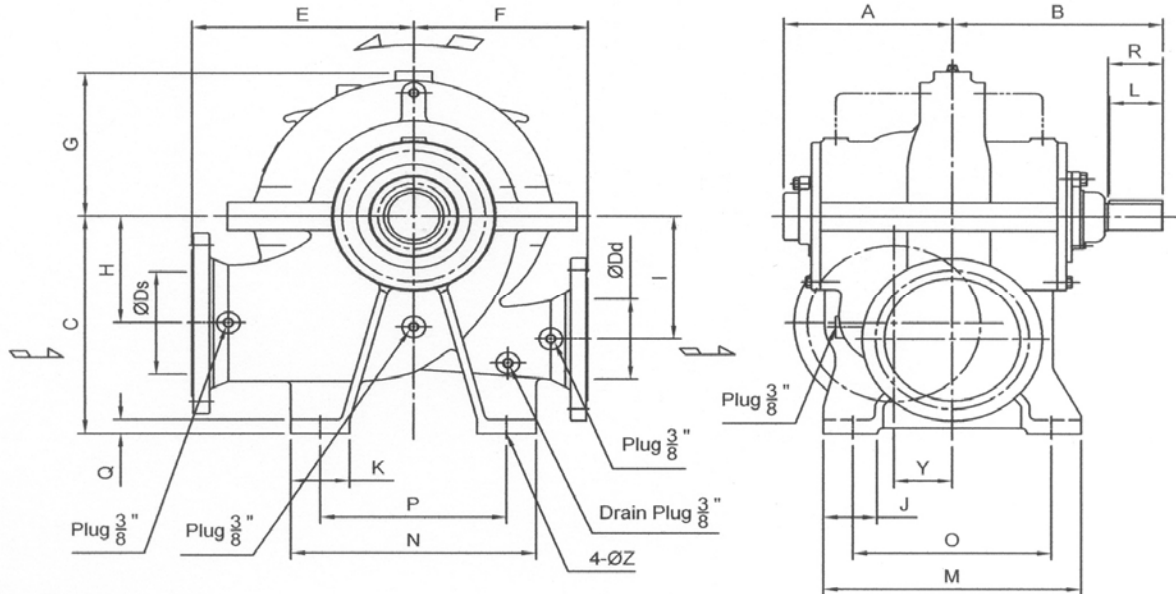
Unit: mm, unless otherwise stated

Dimensions - Bare Shaft Pump CSA

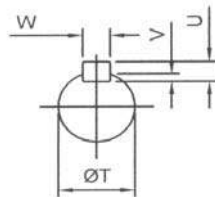
50 Hz

(Optional : Mechanical Seal with Shaft Sleeve Type)

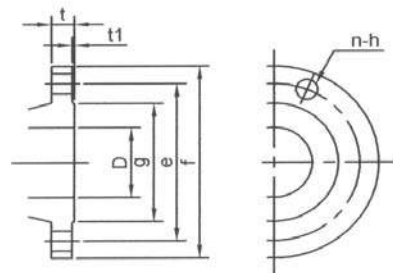
■ **Pump**



■ **Shaft End**



■ **Flange**



Dimension - Flange

D mm	f mm	e mm	g mm	t1 mm	t mm	n	h mm
80	200	160	135	2	24	8	23
100	225	185	160	2	26	8	23
125	270	225	195	2	26	8	25

Dimension - Pump

Model	Size		Pump															Shaft						wt kg		
	Ds	Dd	A	B	C	E	F	G	H	I	J	K	M	N	O	P	Q	Y	Z	L	R	T	U		V	W
100 x 80 CSGA						270	240	169	140	140																143
100 x 80 CSHA	100	80	221	290	295	280	220	185	150	160	60	70	300	290	250	230	20	70	19	56	68	28	8	5	10	165
100 x 80 CSJA							230	202	160	180												63				
125 x 100 CSJA	125	100	247	370	375	350	280	263	200	230	90	100	430	400	350	300	25	80		80	82	38			12	280

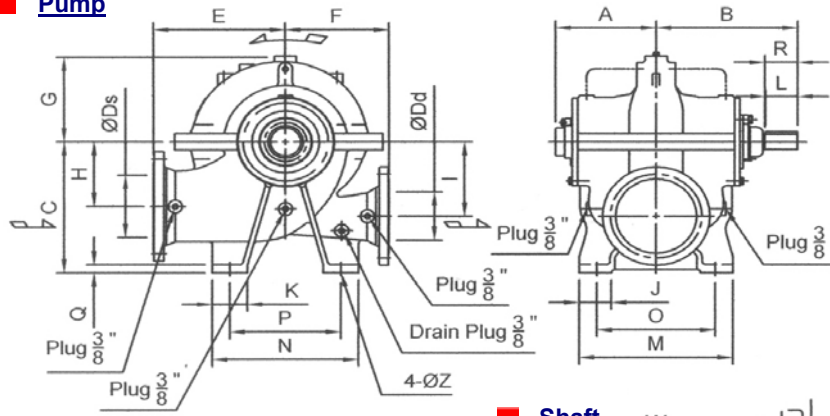
Unit: mm, unless otherwise stated

Dimensions - Bare Shaft Pump CNA

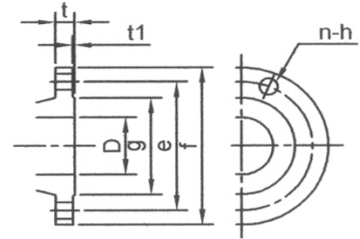
50 Hz

(Optional : Mechanical Seal with Shaft Sleeve Type)

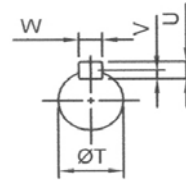
Pump



Flange



Shaft



D mm	f mm	e mm	g mm	t1 mm	t mm	n	h mm
80	200	160	135	2	24	8	23
100	225	185	160	2	26	8	23
125	270	225	195	2	26	8	25
150	305	260	230	2	28	12	25
200	350	305	275	2	30	12	25
250	430	380	345	2	34	12	27
300	480	430	395	3	36	16	27
350	540	480	440	3	38	16	33
400	605	540	495	3	42	16	33

Dimension - Pump

Model	Size		Pump																	Shaft							wt kg																	
	Ds	Dd	A	B	C	E	F	G	H	I	J	K	M	N	O	P	Q	Y	Z	L	R	T	U	V	W																			
125x100 CNGA	125	100	231	350	295	290	181	150	150	60	70	300	290	250	230	20	-	19	80	82	38	8	5	10	209																			
125x100 CNHA		300				250	195	160																	242																			
125x80 CNJA		80				330	226	190																	70	80	340	320	280	250	250	250												
150x150 CNFA	150	150	262	370	355	330	290	205	180	170	80	90	380	360	310	270	25	-	19	80	82	38	8	5	10	253																		
150x125 CNGA		125	271	395		260	224	190	260	224										190	80	90	380	360	310	270	25	19	90	102	48	9	5.5	14	275									
150x125 CNHA		125	262	370		350	280	243	190	210										210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	270							
150x100 CNJA		100	271	395		390	380	290	269	240										90	100	430	400	350	300	300	300	300	300	300	300	300	300	300	300	300	330							
200x200 CNEA	200	200	263	370	375	355	300	223	190	190	90	100	430	400	350	300	25	-	19	80	82	38	8	5	10	270																		
200x150 CNFA		150					282	395												390	375	295	268	200	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	280		
200x150 CNGA							282	395												390	375	295	268	200	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	310	
200x150 CNHA							282	395												390	375	295	268	200	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	355	
200x100 CNJA							100	305												450	445	420	335	309	270	100	110	480	450	390	340	340	340	340	340	340	340	340	340	340	340	340	445	
250x200 CNEA	250	200	273	395	425	395	315	247	210	210	100	110	480	450	390	340	25	-	24	80	97	38	8	5	10	360																		
250x200 CNFA		282	445																	430	325	299	220	260	240	100	110	480	450	390	340	340	340	340	340	340	340	340	340	340	340	380		
250x150 CNGA		150	315																	450	445	430	325	299	220	260	240	100	110	480	450	390	340	25	-	24	90	92	48	9	5.5	14	415	
250x150 CNHA			315																	450	445	430	325	299	220	260	240	100	110	480	450	390	340	25	-	24	100	102	55	10	6	16	500	
250x150 CNJA			150																	350	500	495	470	355	346	300	300	300	110	120	550	520	450	400	30	-	24	110	124	65	11	7	18	605
250x150 CNKA			150																	382	530	500	505	430	407	290	345	345	110	120	550	520	450	400	30	-	24	125	141	75	12	8	20	840
300x250 CNEA	300	250	302	415	475	445	274	235	235	235	110	120	550	520	450	400	30	-	24	90	92	48	9	5.5	14	435																		
300x200 CNFA		200	315	450			445	300												270	290	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	490				
300x200 CNGA			350	470	495	300	270	290	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	520																	
300x200 CNHA			350	500	495	465	365	332	290	290	290	290	290	290	290	290	290	290	290	290	290	290	290	290	290	290	290	625																
300x150 CNJA			150	382	530	500	520	405	384	250	335	110	120	550	520	450	400	30	-	24	125	141	75	12	8	20	790																	
300x250 CNFA		250	335	470	495	495	405	313	275	295	295	295	295	295	295	295	295	295	295	295	295	295	295	295	295	295	570																	
300x250 CNGA			360	500	520	495	405	313	275	295	295	295	295	295	295	295	295	295	295	295	295	295	295	295	295	295	620																	
300x250 CNHA			360	500	520	495	405	313	275	295	295	295	295	295	295	295	295	295	295	295	295	295	295	295	295	295	295	615																
300x200 CNJA			200	382	530	500	525	415	379	275	320	320	140	150	700	700	550	550	35	-	26	110	124	65	11	7	18	1035																
300x200 CNKA		200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	865																
350x300 CNFA	350	300	386	530	600	560	345	310	310	130	150	620	700	500	550	550	38	-	24	110	125	65	11	7	18	805																		
350x250 CNGA		250	414	560			440	373	315	330										303	135	303	135	150	620	700	500	550	38	-	24	125	140	75	12	7.5	20	795						
350x250 CNHA			414	560			440	373	315	330										303	135	303	135	150	620	700	500	550	38	-	24	125	140	75	12	7.5	20	850						
400x350 CNEA	400	350	451	600	630	570	470	355	320	320	140	150	700	700	550	550	35	-	26	110	124	65	11	7	18	1035																		
400x350 CNFA		439	585	625		510	385	305	344	150	150									150	150	150	700	700	550	550	38	-	26	125	140	75	12	7.5	20	1040								

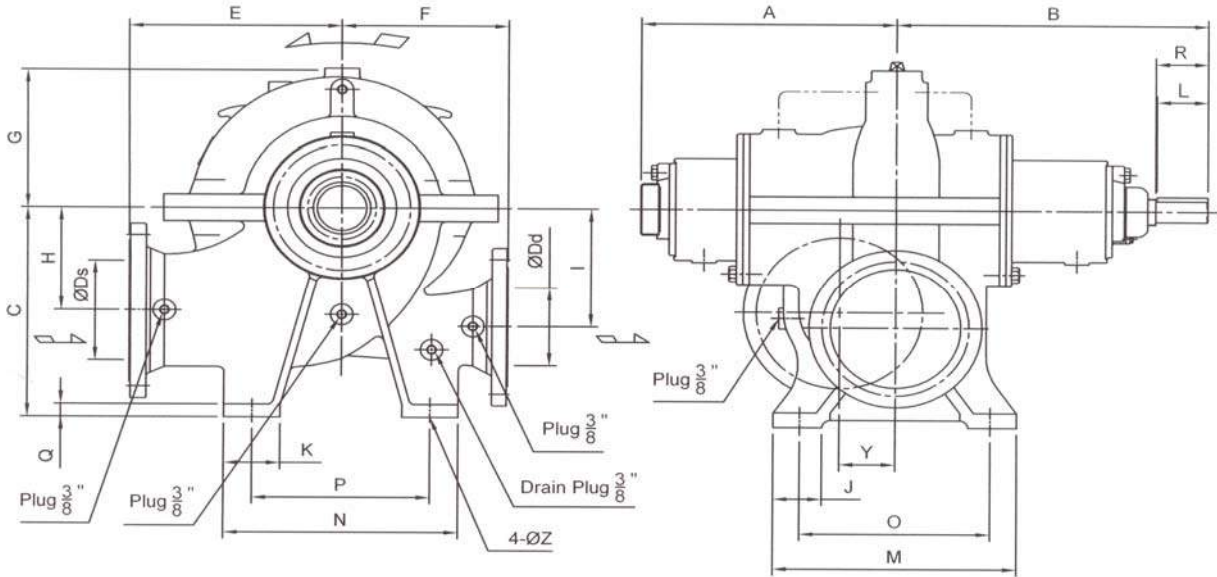
Unit: mm, unless otherwise stated

Dimensions - Bare Shaft Pump CSA

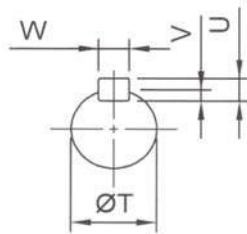
50 Hz

(Optional : Gland Packing Type)

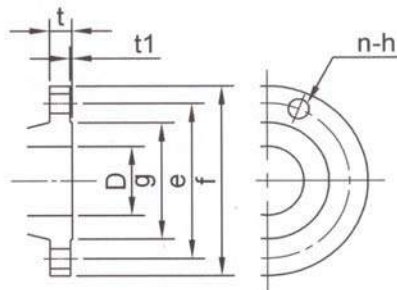
Pump



Shaft End



Flange



Dimension - Flange

D mm	f mm	e mm	g mm	t1 mm	t mm	n	h mm
80	200	160	135	2	24	8	23
100	225	185	160	2	26	8	23
125	270	225	195	2	26	8	25

Dimension - Pump

Model	Size		Pump																	Shaft							wt kg
	Ds	Dd	A	B	C	E	F	G	H	I	J	K	M	N	O	P	Q	Y	Z	L	R	T	U	V	W		
100 x 80 CSGA	100	80	314	385	295	270	240	169	140	140	60	70	300	290	250	230	20	70	19	56	68	28	8	5	10	147	
100 x 80 CSHA						220	185	150	160	170																	
100 x 80 CSJA						230	202	160	180	206																	
125 x 100 CSJA	125	100	340	440	375	350	280	263	200	230	90	100	430	400	350	300	25	80	80	82	38	12	288				

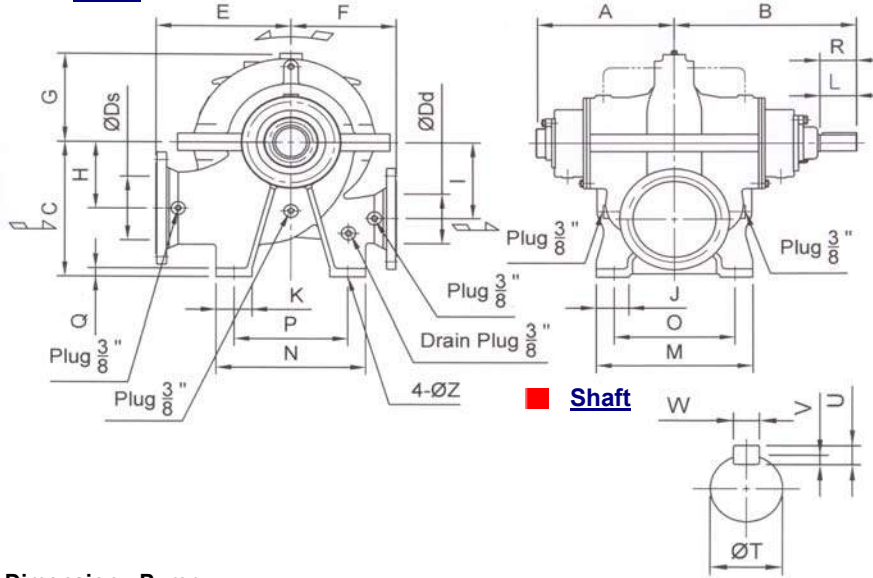
Unit: mm, unless otherwise stated

Dimensions - Bare Shaft Pump CNA

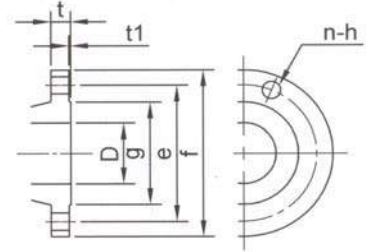
50 Hz

(Optional : Gland Packing Type)

Pump

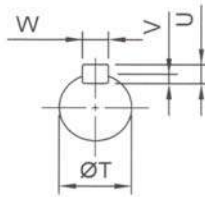


Flange



D mm	f mm	e mm	g mm	t1 mm	t mm	n	h mm
80	200	160	135	2	24	8	23
100	225	185	160	2	26	8	23
125	270	225	195	2	26	8	25
150	305	260	230	2	28	12	25
200	350	305	275	2	30	12	25
250	430	380	345	2	34	12	27
300	480	430	395	3	36	16	27
350	540	480	440	3	38	16	33
400	605	540	495	3	42	16	33

Shaft



Dimension - Pump

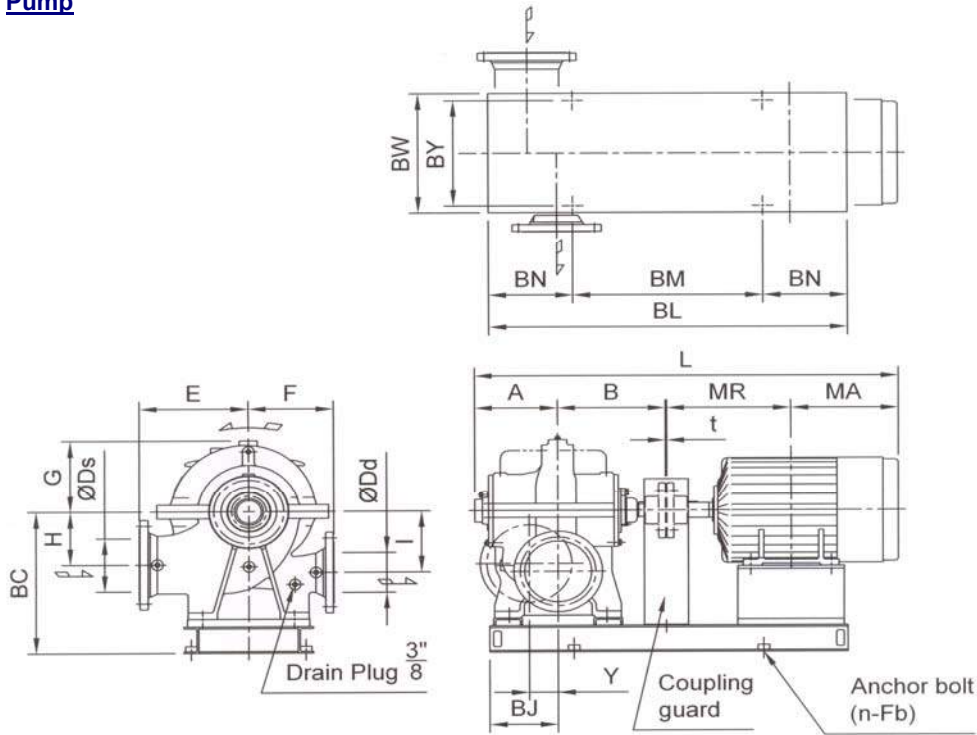
Model	Size		Pump																	Shaft							wt kg													
	Ds	Dd	A	B	C	E	F	G	H	I	J	K	M	N	O	P	Q	Y	Z	L	R	T	U	V	W															
125x100 CNGA	125	100	326	450	295	290	300	181	150	150	60	70	300	290	250	230	20	-	19	80	97	38	8	5	10	215														
125x100 CNHA						300	250	195		160																160	249													
125x80 CNJA						80	330	226		190																70	80	340	320	280	250	258								
150X150 CNFA	150	150	355	475	355	330	290	205	180	170	80	90	380	360	310	270	25	-	19	80	92	38	8	5	10	260														
150X125 CNGA		125	364	505		260	224	190	210	310																270	25	19	90	96	48	9	5.5	14	283					
150X125 CNHA		125	355	475		350	280	243	190	210																210	210	80	90	380	360	310	270	25	19	80	92	38	8	5
150X100 CNJA	100	364	505	390	380	290	269	240	90	100	430	400	350	300	250	250	25	19	90	96	48	9	5.5	14	340															
200X200 CNEA	200	200	356	475	375	300	223	190	190	90	100	430	400	350	300	25	-	19	80	92	38	8	5	10	278															
200X150 CNFA						285	224																		210	210	25	19	80	92	38	8	5	10	288					
200X150 CNGA						150	245																		210	210	25	19	90	96	48	9	5.5	14	319					
200X150 CNHA	150	381	505	390	375	295	268	200	230	230	90	102	48	9	5.5	14	366																							
200X100 CNJA	100	410	560	445	420	335	309	270	100	110	480	450	390	340	300	300	25	19	24	100	117	55	10	6	16	458														
250X200 CNEA	250	200	366	475	425	395	243	210	210	100	110	480	450	390	340	25	-	24	80	82	38	8	5	10	360															
250X200 CNFA			276	240			240																		25	24	90	102	48	9	5.5	14	380							
250X150 CNGA			150	240			240																		25	24	90	102	48	9	5.5	14	415							
250X150 CNHA	150	420	560	445	430	325	299	220	260	260	100	107	55	10	6	16	500																							
250X150 CNJA	150	468	610	495	470	355	346	300	110	120	550	520	450	400	30	30	24	110	116	65	11	7	18	605																
250X150 CNKA	150	467	615	500	505	430	407	290	345	345	110	120	550	520	450	400	30	24	125	141	75	12	8	20	872															
300X250 CNEA	300	250	401	515	475	445	274	235	235	110	120	550	520	450	400	30	-	24	90	92	48	9	5.5	14	448															
300X200 CNFA			560	280			270																		25	24	100	107	55	10	6	16	505							
300X200 CNGA			200	565			300																		270	25	24	100	112	55	10	6	16	535						
300X200 CNHA	200	468	610	495	465	365	332	290	110	120	550	520	450	400	30	30	24	110	116	65	11	7	18	644																
300X150 CNJA	150	467	615	500	520	384	250	335	110	120	550	520	450	400	30	30	24	125	141	75	12	8	20	813																
300X250 CNFA	250	440	575	495	405	306	260	260	110	120	550	520	450	400	30	30	24	100	102	55	10	6	16	587																
300X250 CNGA	250	478	620	495	495	313	260	260	110	120	550	520	450	400	30	30	24	110	116	65	11	7	18	638																
300X250 CNHA	250	478	620	520	495	337	275	295	110	120	550	520	450	400	30	30	24	110	116	65	11	7	18	632																
300X200 CNJA	200	467	615	500	525	415	379	320	110	120	550	520	450	400	30	30	24	125	141	75	12	8	20	900																
300X200 CNKA	200	505	675	560	570	475	436	290	380	140	150	620	700	500	550	35	-	26	140	156	85	14	9	22	1118															
350X300 CNFA	350	300	481	613	600	560	345	310	310	130	150	620	700	500	550	38	-	24	110	125	65	11	7	18	836															
350X250 CNGA		250	350	310			310																		135	150	620	700	500	550	38	-	24	110	124	65	11	7	18	823
350X250 CNHA		250	491	645			440																		373	315	330	330	110	120	550	520	450	400	30	30	24	125	140	75
400X350 CNEA	400	350	536	685	630	570	470	355	320	320	140	150	700	700	550	550	35	-	26	110	124	65	11	7	18	1062														
400X350 CNFA			350	522		670	625	510	385	305	344	150	150	700	700	550	550	35	38	26	125	140	75	12	7.5	20	1076													

Unit: mm, unless otherwise stated

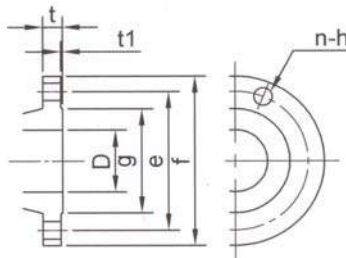
Dimensions - CSA Pump with Motor 4-Poles Drive
(Standard : Mechanical Seal Type)

50 Hz

Pump



Flange



Dimension - Flange

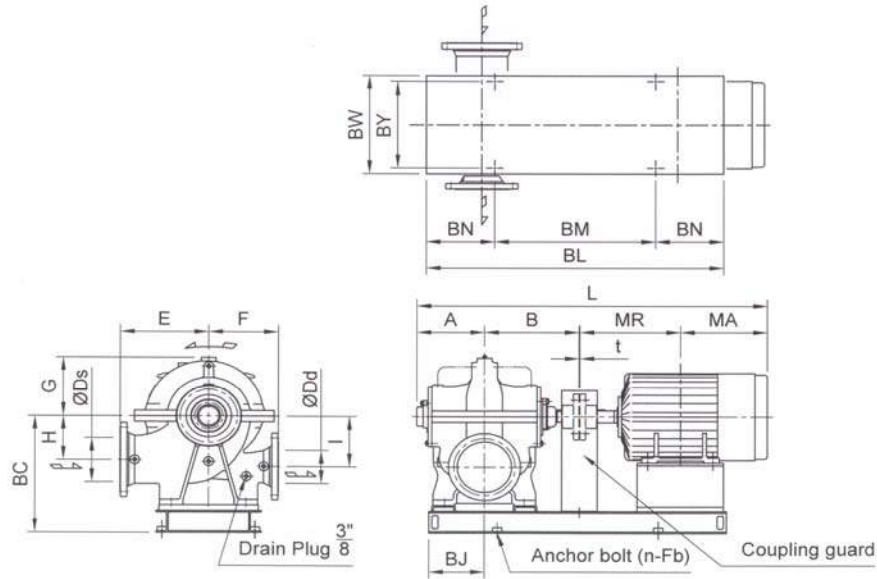
D	f	e	g	t1	t	n	h
mm	mm	mm	mm	mm	mm	mm	mm
80	200	160	135	2	24	8	23
100	225	185	160	2	26	8	23
125	270	225	195	2	26	8	25

Dimension - Pump

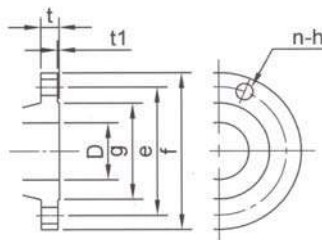
Model	Motor		Pump										Motor				Common Base								Total				
	kW		Ds	Dd	A	B	E	F	G	H	I	Y	wt kg	Frame	MR	MA	wt kg	BC	BJ	BL	BM	BN	BW	BY	n-Fb	wt kg	t	L	wt kg
100 x 80 CSGA	2.2		100	80	221	250	270	240	169	140	140	70	143	100L	193	170	30	411	170	720	420	150	380	330	4-M12	37	3	837	210
	3.7													112M	200	182	42			730	430				4-M12	37		856	222
100 x 80 CSHA	5.5		100	80	221	250	280	220	185	150	160	70	165	132S	239	207	65	411	170	770	470	150	380	330	4-M12	38	3	920	268
	7.5													132M	258	226	76			810	510				4-M12	39		958	280
100 x 80 CSJA	5.5		100	80	221	250	280	230	202	160	180	70	200	132S	239	207	65	411	170	770	470	150	380	330	4-M12	38		920	303
	7.5													132M	258	226	76			810	510	150	380	330	4-M12	39	3	958	315
	11													160M	323	281	120			890	590				4-M12	43		1078	363
125 x 100 CSJA	15		125	100	247	325	350	280	263	200	230	80	280	160L	345	303	158	491	235	1080	730	175	450	400	4-M16	79		1220	517
	18.5													180M	351.5	315.5	180			1080	730				4-M16	89	3	1242	549
	22													180L	370.5	334.5	205			1120	690	215	450	400	4-M16	92		1280	577
	30													200L	395.5	372.5	290			1160	730				4-M16	96	4	1344	666

Unit: mm, unless otherwise stated

■ **Pump**



■ **Flange**



Dimension - Flange

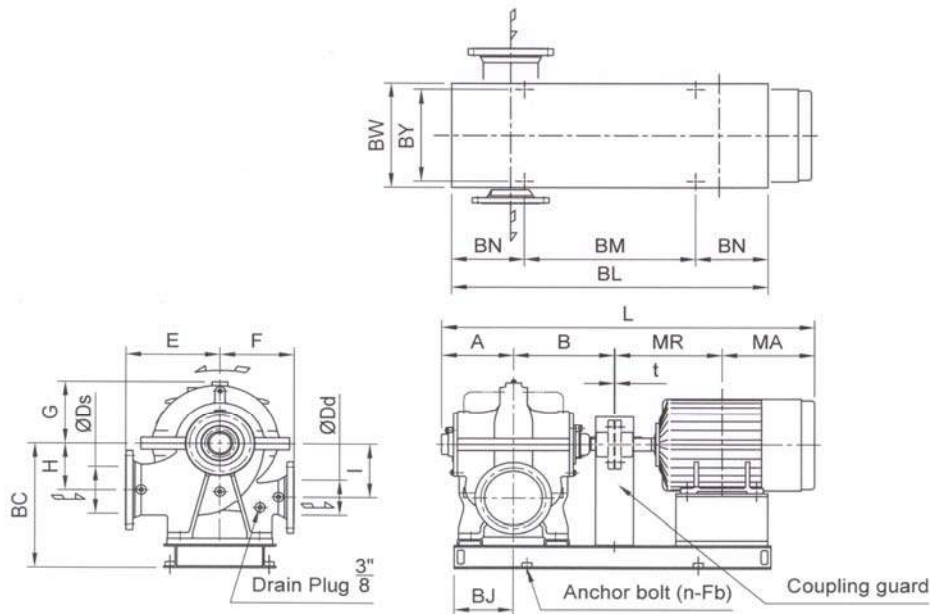
D mm	f mm	e mm	g mm	t1 mm	t mm	n	h mm
80	200	160	135	2	24	8	23
100	225	185	160	2	26	8	23
125	270	225	195	2	26	8	25
150	305	260	230	2	28	12	25

Dimension - Pump

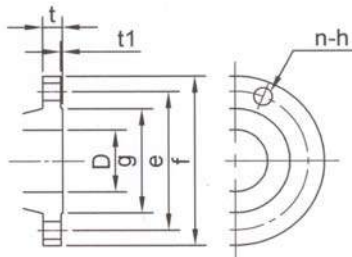
Model	Motor		Pump									Motor				Common Base								Total				
	kW	Size	Ds	Dd	A	B	E	F	G	H	I	wt kg	Frame	MR	MA	wt kg	BC	BJ	BL	BM	BN	BW	BY	n-Fb	wt kg	t	L	wt kg
125 x 100 CNGA	3.7	125	100	231	350	290	250	181	150	150	209	112M	200	182	42	411	170	830	530	150	380	330	4-M12	39	3	966	290	
	132S											239	207	65	40									1030				314
	132M											258	226	76	45									1068				330
125 x 100 CNHA	7.5	125	100	231	350	300	250	195	150	160	242	132M	258	226	76	411	170	900	550	175	380	330	4-M12	45	3	1068	363	
	160M											323	281	120	56									1188				418
	160M											323	281	120	60									1188				430
125 x 80 CNJA	11	125	80	231	350	330	250	226	150	190	250	160L	345	303	158	411	190	1050	700	175	400	350	4-M16	62	3	1232	470	
	180M											351.5	315.5	180	82									1251				512
	180M											351.5	315.5	180	82									1251				512
150 x 150 CNFA	7.5	150	150	262	370	330	290	205	180	170	253	132M	258	226	76	471	210	970	620	175	450	400	4-M16	69	3	1119	398	
	160M											323	281	120	73									1239				446
	160M											323	281	120	77									1273				472
150 x 125 CNGA	11	150	125	262	395	330	260	224	190	190	275	160M	345	303	158	471	210	1120	690	215	450	400	4-M16	79	3	1317	512	
	180M											351.5	315.5	180	86									1336				541
	180M											351.5	315.5	180	85									1302				535
150 x 125 CNHA	18.5	150	125	262	370	350	280	243	190	210	270	180L	370.5	334.5	205	471	210	1140	710	215	450	400	4-M16	87	3	1340	562	
	200L											395.5	372.5	290	95									1404				655
	200L											395.5	372.5	290	98									1438				718
150 x 100 CNJA	30	150	100	271	395	380	290	269	190	240	330	225S	432	379	320	506	235	1260	830	215	500	450	4-M16	106	4	1481	756	
	225M											444.5	391.5	358	108									1506				796
	225M											444.5	391.5	358	108									1506				796

Unit: mm, unless otherwise stated

■ **Pump**



■ **Flange**



Dimension - Flange

D	f	e	g	t1	t	n	h
mm	mm	mm	mm	mm	mm		mm
100	225	185	160	2	26	8	23
150	305	260	230	2	28	12	25
200	350	305	275	2	30	12	25

Dimension - Pump

Model	Motor		Pump									Motor				Common Base							Total							
	kW	Size	Ds	Dd	A	B	E	F	G	H	I	wt kg	Frame	MR	MA	wt kg	BC	BJ	BL	BM	BN	BW	BY	n-Fb	wt kg	t	L	wt kg		
200 x 200 CNEA	7.5												132M	258	226	76														
	11	200	200	263	370	355	300	223	190	190	270		160M	323	281	120	491	235	990	640	175	450	400	4-M16	74	3	1120	420		
	15												160L	345	303	158			1070	720					78	3	1240	468		
200 x 150 CNFA	15	200	150	263	370	355	285	224	190	190	280		160L	345	303	158	491	235	1120	690	215	450	400	4-M16	80	3	1284	518		
	18.5												180M	351.5	315.5	180			1120	700					80	3	1303	551		
													180M	351.5	315.5	180			1130	700					91	3	1303	581		
200 x 150 CNGA	22	200	150	263	370	355	285	245	200	210	310		180L	370.5	334.5	205	491	235	1160	730	215	450	400	4-M16	93	3	1341	608		
	30											200L	395.5	372.5	290	1210									780	97	4	1405	697	
	37											225S	432	379	320	1240									810	105	4	1448	735	
												200L	395.5	372.5	290	1230									800	98	4	1449	743	
200 x 150 CNHA	37	200	150	282	395	375	295	268	200	230	355		225S	432	379	320	506	235	1260	880	215	500	450	4-M16	106	4	1492	781		
	45											225M	444.5	391.5	358	1290									860	108	4	1517	821	
	55											250S	463.5	409	520	1310									880	143	4	1554	1018	
												225M	444.5	391.5	358	1370									940	117	4	1595	920	
200 x 100 CNJA	45	200	100	305	450	420	335	309	200	270	445		250S	463.5	409	520	586	260	1390	960	215	560	500	4-M20	155	4	1632	1120		
	55											250M	482.5	428	580	1430									1000	159	4	1670	1184	
	75											280S	544	463	700	1500									950	179	4	1766	1324	
	90																													

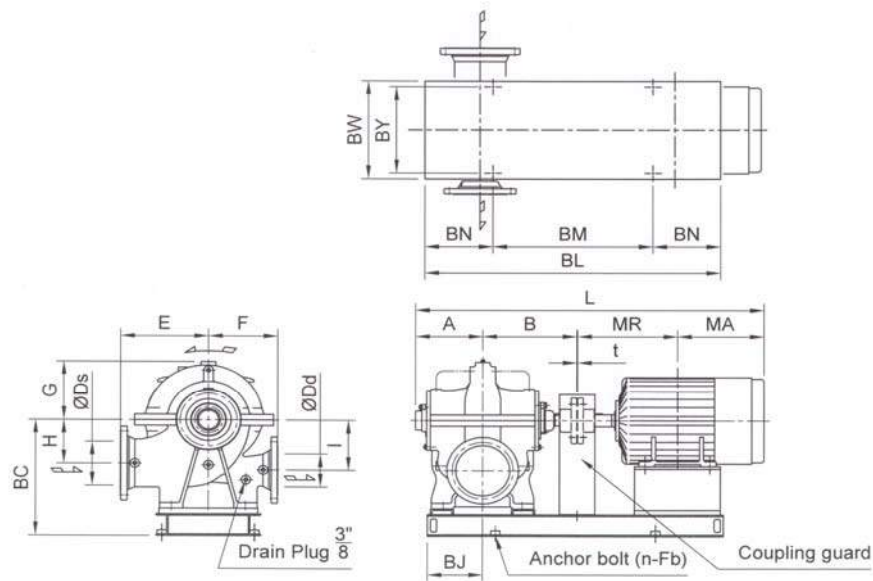
Unit: mm, unless otherwise stated

Dimensions - CNA Pump with Motor 4-Poles Drive (3/6)

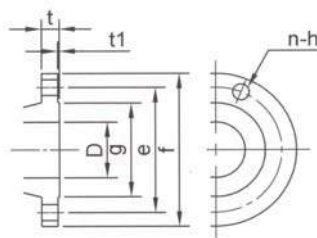
50 Hz

(Standard : Mechanical Seal Type)

■ Pump



■ Flange



Dimension - Flange

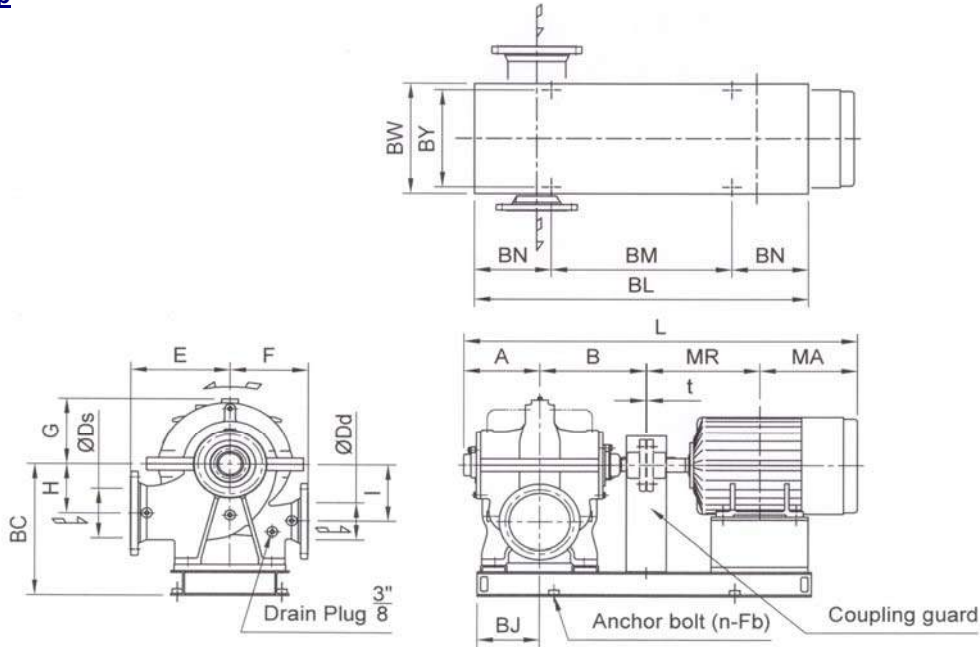
D	f	e	g	t1	t	n	h
mm	mm	mm	mm	mm	mm	mm	mm
150	305	260	230	2	28	12	25
200	350	305	275	2	30	12	25
250	430	380	345	2	34	12	27

Dimension - Pump

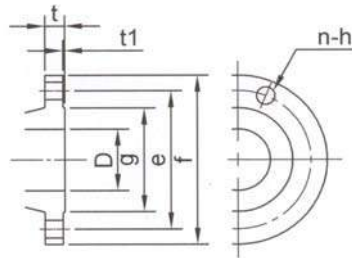
Model	Motor		Pump									Motor				Common Base								Total					
	kW	Size	Ds	Dd	A	B	E	F	G	H	I	wt kg	Frame	MR	MA	wt kg	BC	BJ	BL	BM	BN	BW	BY	n-Fb	wt kg	t	L	wt kg	
250 x 200 CNEA	15	250 x 200	250	200	273	395	395	315	243	210	210	360	160L	345	303	158	541	260	1170	740	215	500	450	4-M16	90	3	1319	608	
	180M												351.5	315.5	180	103									1338				643
	180L												370.5	334.5	205	107									1376				672
250 x 200 CNFA	22	250 x 200	250	200	282	395	395	315	247	210	210	380	180L	370.5	334.5	205	541	260	1260	830	215	500	450	4-M16	107	4	1449	779	
	225S												432	379	320	114									1492				814
	225L												432	379	320	114									1492				814
250 x 150 CNGA	37	250 x 150	250	150	282	395	395	315	276	220	240	415	200L	395.5	372.5	290	561	260	1290	860	215	500	450	4-M16	114	4	1517	888	
	225S												432	379	320	114									1492				814
	225L												432	379	320	114									1492				814
250 x 150 CNHA	45	250 x 150	250	150	282	395	395	315	276	220	240	415	225M	444.5	391.5	358	586	260	1310	880	215	500	500	4-M20	115	4	1517	888	
	250S												463.5	409	520	153									1554				1088
	250L												463.5	409	520	153									1554				1088
250 x 150 CNHA	55	250 x 150	250	150	315	450	430	325	299	220	260	500	250M	482.5	428	580	586	260	1430	1000	215	560	500	4-M20	155	4	1642	1175	
	250S												482.5	428	580	159									1680				1239
	280S												544	463	700	179									1776				1379
250 x 150 CNJA	75	250 x 150	250	150	315	500	470	355	346	220	300	605	250M	482.5	428	580	636	295	1520	970	275	580	520	4-M20	172	4	1765	1357	
	280S												544	463	700	184									1861				1489
	280L												544	463	700	184									1861				1489
250 x 150 CNJA	90	250 x 150	250	150	350	500	470	355	346	220	300	605	280M	569.5	488.5	800	636	295	1640	2x645	175	640	580	6-M20	188	4	1912	1592	
	315S												589	517	1030	215									1960				1850
	315M												614.5	552.5	1030	220									2011				1855
250 x 150 CNKA	110	250 x 150	250	150	382	530	505	430	407	290	345	835	280M	569.5	488.5	800	666	300	1680	2x665	175	640	580	6-M20	192	4	1988	1827	
	315S												589	517	920	220									2032				1975
	315M												614.5	552.5	1030	235									2083				2100
250 x 150 CNKA	132	250 x 150	250	150	382	530	505	430	407	290	345	835	315M	614.5	552.5	1070	666	300	1750	2x700	175	640	580	6-M20	235	5	2413	2555	
	185												235	2083	2140														
	220												270	2413	2555														

Unit: mm, unless otherwise stated

■ **Pump**



■ **Flange**



Dimension - Flange

D	f	e	g	t1	t	n	h
mm	mm	mm	mm	mm	mm	mm	mm
150	305	260	230	2	28	12	25
200	350	305	275	2	30	12	25
250	430	380	345	2	34	12	27
300	480	430	395	3	36	16	27

Dimension - Pump

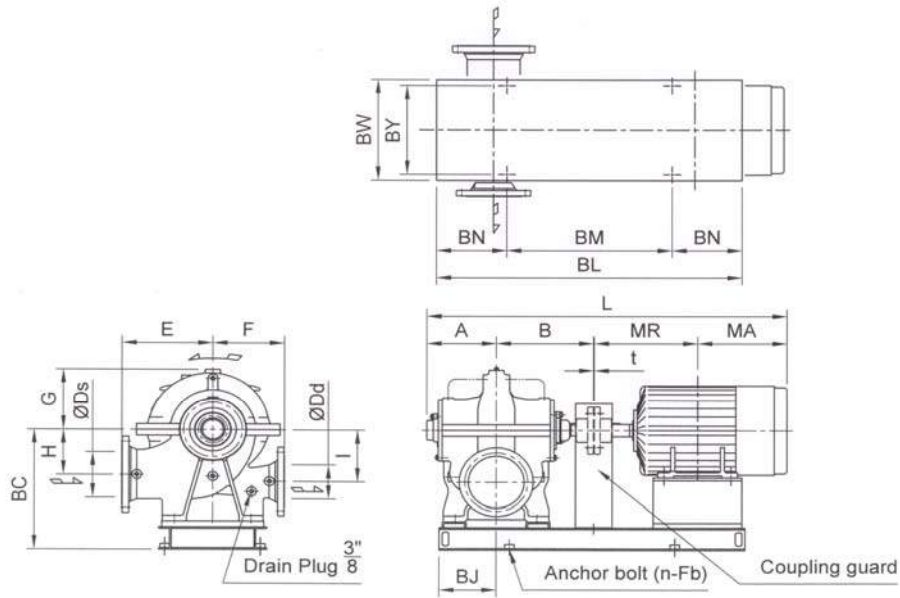
Model	Motor kW	Size		Pump									Motor				Common Base							Total				
		Ds	Dd	A	B	E	F	G	H	I	wt kg	Frame	MR	MA	wt kg	BC	BJ	BL	BM	BN	BW	BY	n-Fb	wt kg	t	L	wt kg	
300 x 250 CNEA	22	300	250	302	415	445	355	274	235	235	435	180L	370.5	334.5	205	616	295	1270	840	215	600	540	4-M20	141	4	1425	781	
	200L											395.5	372.5	290	144									1489				869
	225S											432	379	320	149									1532				904
300 x 200 CNFA	37	300	200	315	450	445	355	280	235	235	490	225M	444.5	391.5	358	616	295	1400	970	215	600	540	4-M20	160	4	1605	1010	
	250S											463.5	409	520	167									1642				1177
	250S											463.5	409	520	167									1662				1207
300 x 200 CNGA	55	300	200	315	470	445	355	300	250	270	520	250M	482.5	428	580	636	295	1480	1050	640	580	4-M20	171	4	1770	1271		
	280S											544	463	700	183								1796				1403	
	280S											544	463	700	183								1796				1403	
300 x 200 CNHA	90	300	200	350	500	465	365	332	250	290	625	280M	569.5	488.5	800	636	295	1580	1030	175	640	580	4-M20	184	4	1861	1509	
	280M											569.5	488.5	800	188									1912				1613
	315M											589	517	1030	215									1960				1870
	315M											614.5	552.5	1030	220									2011				1875
300 x 150 CNJA	150	300	150	382	530	520	405	384	250	335	785	315M	614.5	552.5	1030	666	300	1750	2x700	175	640	580	6-M20	235	4	2083	2050	
	315M											614.5	552.5	1070	235									2083				2090
	315AB											666	830	1450	270									2413				2505
	315CB											741	905	1660	280									2563				2725
	315CB											741	905	1800	280									2563				2865

Unit: mm, unless otherwise stated

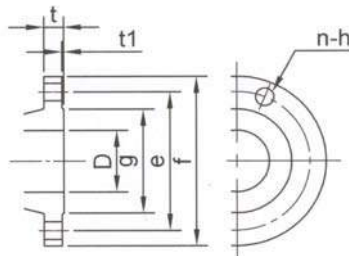
Dimensions - CNA Pump with Motor 4-Poles Drive (5/6)
(Standard : Mechanical Seal Type)

50 Hz

Pump



Flange



Dimension - Flange

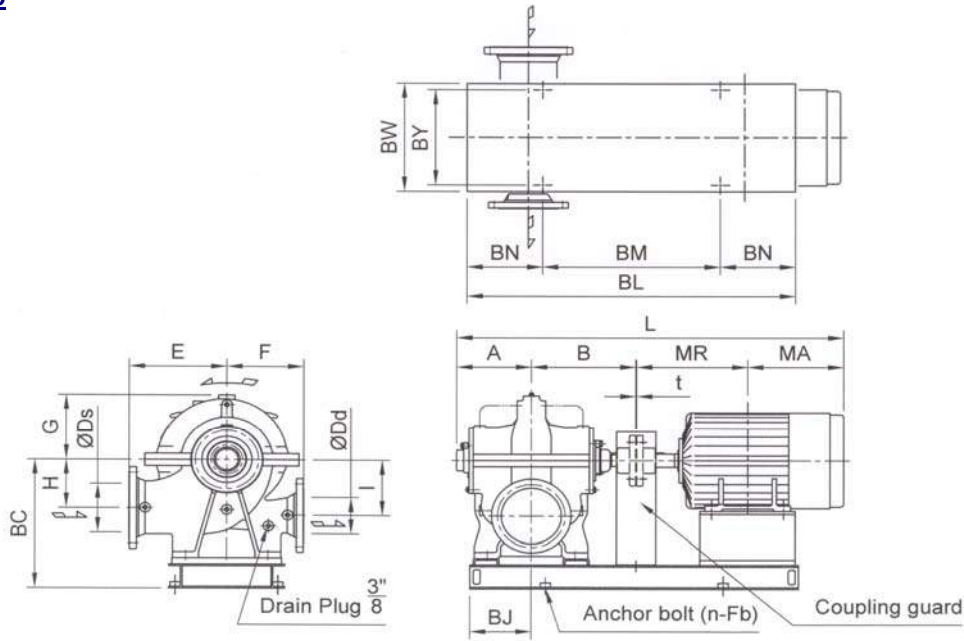
D	f	e	g	t1	t	n	h
mm	mm	mm	mm	mm	mm	n	mm
200	350	305	275	2	30	12	25
250	430	380	345	2	34	12	27
300	480	430	395	3	36	16	27

Dimension - Pump

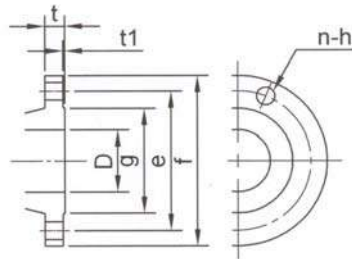
Model	Motor		Pump								Motor				Common Base								Total											
	kW	Size	Ds	Dd	A	B	E	F	G	H	I	wt kg	Frame	MR	MA	wt kg	BC	BJ	BL	BM	BN	BW	BY	n-Fb	wt kg	t	L	wt kg						
300 x 250 CNFA	37	300	250	335	470	495	405	306	250	260	570	225S	432	379	320	636	295	1400	970	215	600	540	4-M20	160	4	1620	1050							
	45											225M	444.5	391.5	358									1410			980	162	1645	1090				
	55											250S	463.5	409	520									1440			1010	167	1682	1257				
	75											250M	482.5	428	580									1480			1050	171	1720	1321				
300 x 250 CNGA	75	300	250	360	500	495	405	313	250	260	620	250M	482.5	428	580	616	295	1400	980	275	580	520	4-M20	172	4	1775	1372							
	90											280S	544	463	700									1420			980	184	1871	1504				
	110											280M	569.5	488.5	800									1420			2x645	175	640	580	6-M20	188	1922	1608
	110											280M	569.5	488.5	800									1440			2x645	175	640	580	6-M20	189	1922	1804
300 x 250 CNHA	132	300	250	360	500	495	405	337	275	295	615	315S	589	517	1030	636	295	1480	2x700	175	640	580	6-M20	216	4	1970	2061							
	150											315M	614.5	552.5	1030									1550			2x725	221	2021	2066				
	185											315M	614.5	552.5	1030									1750			2x700	175	640	580	235	2083	2125	
	220											315M	614.5	552.5	1070									1750			2x700	235	2083	2165				
300 x 200 CNJA	220	300	200	382	530	525	415	379	275	320	860	315AB	666	830	1450	666	300	1910	2x740	215	640	640	6-M20	270	5	2413	2580							
	260											315CB	741	905	1660									2060			2x755	280	2563	2800				
	300											315CB	741	905	1800									2060			2x755	280	2563	2940				
	220											315AB	666	830	1450									2030			3x560	300	2501	2820				
	260											315CB	741	905	1660									735			2180	3x610	175	790	720	8-M22	315	2651
300 x 200 CNKA	300	300	200	415	585	570	475	436	290	380	1070	315CB	741	905	1800	355	785	2180	3x610	215	710	330	8-M24	315	5	2651	3185							
	335											315DB	841	1005	1900									2380			3x650	330	2851	3300				
	370											355AB	779	970	2150									2240			3x630	175	840	760	320	2754	3540	
	450											400CB	990	1135	2500									2620			3x690	275	900	820	350	3130	3920	

Unit: mm, unless otherwise stated

Pump



Flange



Dimension - Flange

D	f	e	g	t1	t	n	h
mm	mm	mm	mm	mm	mm	mm	mm
250	430	380	345	2	34	12	27
300	480	430	395	3	36	16	27
350	540	480	440	3	38	16	33
400	605	540	495	3	42	16	33

Dimension - Pump

Model	Motor kW	Size		Pump								Motor				Common Base								Total			
		Ds	Dd	A	B	E	F	G	H	I	wt kg	Frame	MR	MA	wt kg	BC	BJ	BL	BM	BN	BW	BY	n-Fb	wt kg	t	L	wt kg
350 x 300 CNFA	90	350	300	386	530	560	450	345	310	310	800	280S	544	463	700	775	355	1700	2x675	175	790	720	6-M22	250	4	1927	1750
	110											280M	569.5	488.5	800			1750	2x700	175				265		1978	1865
	132											315S	589	517	1030			1770	2x710	175				270		2026	2100
	132											315S	589	517	920			1770	2x710	175				270		2026	1980
350 x 250 CNGA	150	350	250	386	530	560	450	350	310	303	790	315M	614.5	552.5	1030	775	355	1820	2x695	215	790	720	6-M22	285	4	2087	2105
	185											315M	614.5	552.5	1070			1820	2x695	215				285		2087	2145
	185											315M	614.5	552.5	1070			1850	2x710	215				290		2145	2205
	220											315AB	666	830	1450			200	2x725	275				315		2474	2610
350 x 250 CNHA	260	350	250	414	560	560	440	373	315	330	845	315CB	741	905	1660	775	355	2150	3x600	175	790	720	8-M22	335	5	2624	2840
	300											315CB	741	905	1800			2150	3x600	175				335		2624	2980
	335											315DB	841	1005	1900			2350	3x640	215				350		2824	3095
	90											280S	544	463	700			1810	2x730	175				275		2062	2005
400 x 350 CNEA	110	400	350	451	600	570	470	355	320	320	1030	280M	569.5	488.5	800	805	390	1860	2x715	215	790	720	6-M22	285	4	2113	2115
	132											315S	589	517	1030			1870	2x720	215				285		2161	2345
	150											315M	614.5	552.5	1030			1920	2x745	215				295		2222	2355
	150											315M	614.5	552.5	1030			1910	2x740	215				295		2195	2360
400 x 350 CNFA	185	400	350	439	585	625	510	385	305	344	1035	315M	614.5	552.5	1070	805	390	1910	2x740	215	790	720	6-M22	295	4	2195	2400
	220											315M	614.5	552.5	1070			1910	2x740	215				295		2195	2400
	220											315AB	666	830	1450			2050	2x750	275				315		2524	2800

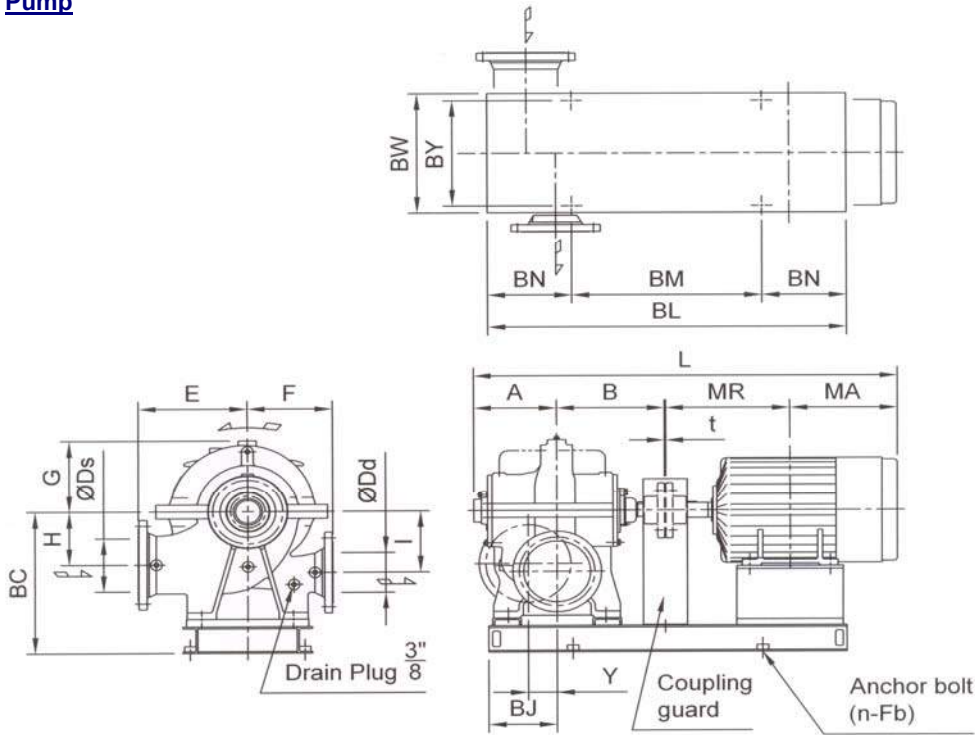
Unit: mm, unless otherwise stated

Dimensions - CSA Pump with Motor 4-Poles Drive

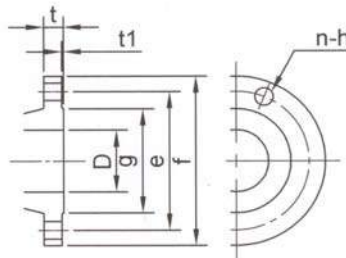
50 Hz

(Optional : Mechanical Seal with Shaft Sleeve Type)

Pump



Flange



Dimension - Flange

D	f	e	g	t1	t	n	h
mm	mm	mm	mm	mm	mm	mm	mm
80	200	160	135	2	24	8	23
100	225	185	160	2	26	8	23
125	270	225	195	2	26	8	25

Dimension - Pump

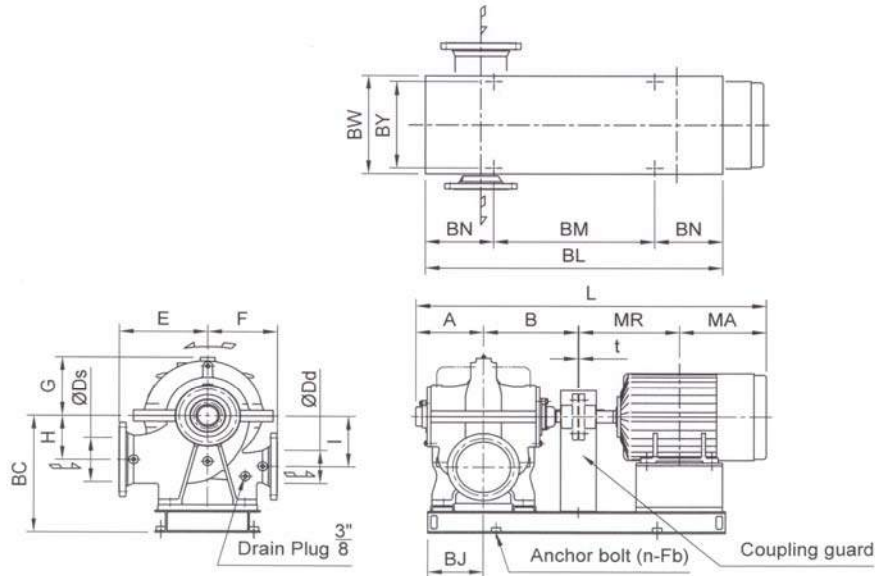
Model	Motor		Pump									Motor				Common Base								Total					
	kW		Ds	Dd	A	B	E	F	G	H	I	Y	wt kg	Frame	MR	MA	wt kg	BC	BJ	BL	BM	BN	BW	BY	n-Fb	wt kg	t	L	wt kg
100 x 80 CSGA	2.2		100	80	221	250	270	240	169	140	140	70	143	100L	193	170	30	411	170	720	420	150	380	330	4-M12	37	3	837	210
	3.7													112M	200	182	42			730	430					37		856	222
100 x 80 CSHA	3.7		100	80	221	250	280	220	185	150	160	70	165	112M	200	182	42	411	170	730	430	150	380	330	4-M12	37	3	856	244
	5.5													132S	239	207	65			770	470					38		920	268
100 x 80 CSJA	7.5		100	80	221	250	280	230	202	160	180	70	200	132M	258	226	76	411	170	810	510	150	380	330	4-M12	39	3	958	280
	5.5													132S	239	207	65			770	470					38		920	303
100 x 80 CSJA	7.5		100	80	221	250	280	230	202	160	180	70	200	132M	258	226	76	411	170	810	510	150	380	330	4-M12	39	3	958	315
	11													160M	323	281	120			890	590					43		1078	363
125 x 100 CSJA	15		125	100	247	325	350	280	263	200	230	80	280	160L	345	303	158	491	235	1080	730	175	450	400	4-M16	79	3	1220	517
	18.5													180M	351.5	315.5	180			1080	730					89		1242	549
	22													180L	370.5	334.5	205			1120	690	92				1280		577	
	30													200L	395.5	372.5	290			1160	730	96				1344		666	

Unit: mm, unless otherwise stated

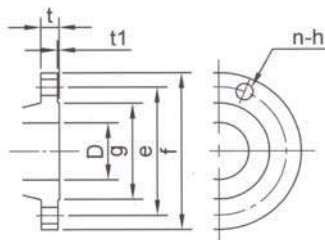
Dimensions - CNA Pump with Motor 4-Poles Drive (1/6)
(Optional : Mechanical Seal with Shaft Sleeve Type)

50 Hz

Pump



Flange



Dimension - Flange

D	f	e	g	t1	t	n	h
mm	mm	mm	mm	mm	mm	mm	mm
80	200	160	135	2	24	8	23
100	225	185	160	2	26	8	23
125	270	225	195	2	26	8	25
150	305	260	230	2	28	12	25

Dimension - Pump

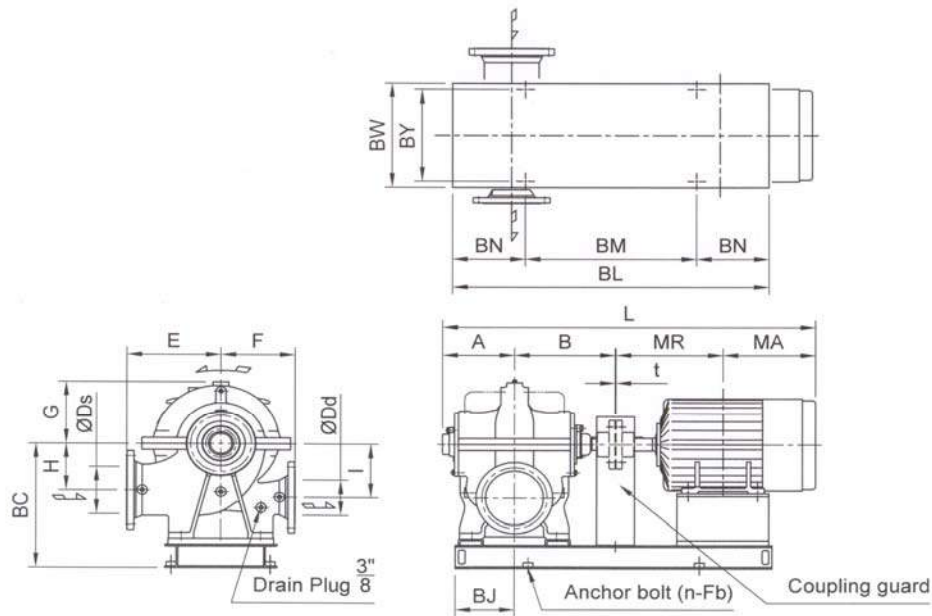
Model	Motor	Size	Pump									Motor				Common Base							Total				
	KW		Ds	Dd	A	B	E	F	G	H	I	wt kg	Frame	MR	MA	wt kg	BC	BJ	BL	BM	BN	BW	BY	n-Fb	wt kg	t	L
125 x 100 CNGA	3.7	125	100	231	350	290	250	181	150	150	209	112M	200	182	42	411	170	830	530	150	380	330	4-M12	39	3	966	290
	5.5											132S	239	207	65			870	570					40		1030	314
	7.5											132M	258	226	76			900	550					45		1068	330
125 x 100 CNHA	7.5	125	100	231	350	300	250	195	150	160	242	132M	258	226	76	411	170	900	550	175	380	330	4-M12	45	3	1068	363
	11											160M	323	281	120			990	640					56		1188	418
125 x 80 CNJA	11	125	80	231	350	330	250	226	150	190	250	160M	323	281	120	411	190	1010	780	175	400	350	4-M16	60	3	1188	430
	15											160L	345	303	158			1050	700					62		1232	470
	18.5											180M	351.5	315.5	180			1060	710					82		1251	512
150 x 150 CNFA	7.5	150	150	262	370	330	290	205	180	170	253	132M	258	226	76	471	210	970	620	175	450	400	4-M16	69	3	1119	398
	11											160M	323	281	120			1050	700					73		1239	446
150 x 125 CNGA	11	150	125	262	395	330	260	224	190	190	275	160M	323	281	120	471	210	1070	640	215	450	400	4-M16	77	3	1273	472
	15											160L	345	303	158			1120	690					79		1317	512
	18.5											180M	351.5	315.5	180			1130	700					86		1336	541
150 x 125 CNHA	18.5	150	125	262	370	350	280	243	190	210	270	180M	351.5	315.5	180	471	210	1100	670	215	450	400	4-M16	85	3	1302	535
	22											180L	370.5	334.5	205			1140	710					87		1340	562
	30											200L	395.5	372.5	290			1180	750					95		1404	655
150 x 100 CNJA	30	150	100	271	395	380	290	269	190	240	330	200L	395.5	372.5	290	506	235	1230	800	215	450	400	4-M16	98	4	1438	718
	37											225S	432	379	320			1260	830					106		1481	756
	45											225M	444.5	391.5	358			1290	860					108		1506	796

Unit: mm, unless otherwise stated

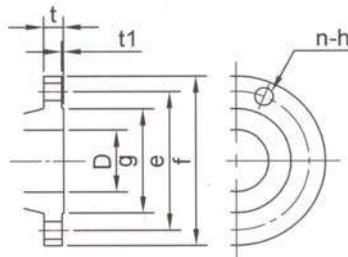
Dimensions - CNA Pump with Motor 4-Poles Drive (2/6)
(Optional : Mechanical Seal with Shaft Sleeve Type)

50 Hz

■ **Pump**



■ **Flange**



Dimension - Flange

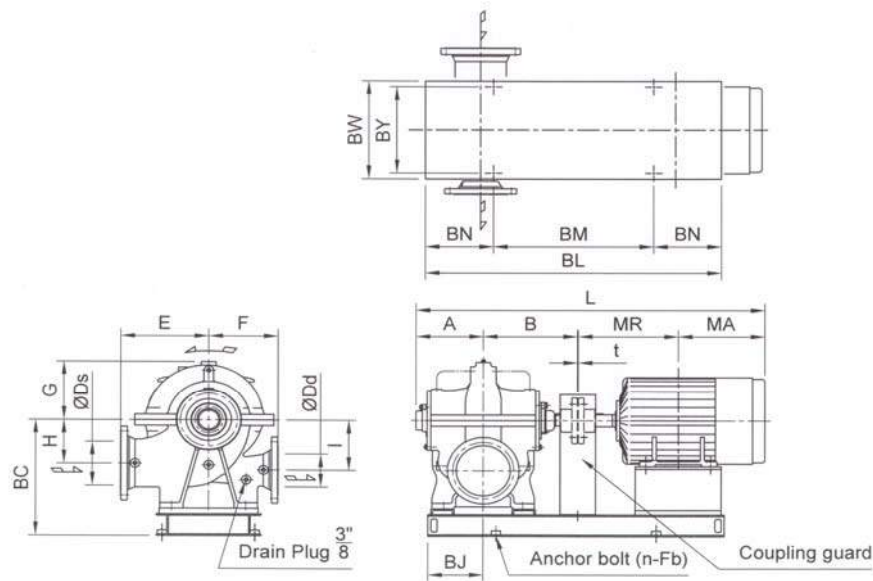
D	f	e	g	t1	t	n	h
mm	mm	mm	mm	mm	mm		mm
100	225	185	160	2	26	8	23
150	305	260	230	2	28	12	25
200	350	305	275	2	30	12	25

Dimension - Pump

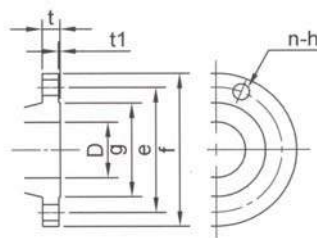
Model	Motor		Pump								Motor				Common Base							Total							
	kW	Size	Ds	Dd	A	B	E	F	G	H	I	wt kg	Frame	MR	MA	wt kg	BC	BJ	BL	BM	BN	BW	BY	n-Fb	wt kg	t	L	wt kg	
200 x 200 CNEA	7.5	200	200	263	370	355	300	223	190	190	270	132M	258	226	76	491	235	1070	720	175	640	450	400	4-M16	74	3	1120	420	
	160M											323	281	120	78										1240				468
	160L											345	303	158	80										1284				508
200 x 150 CNFA	15	200	150	263	370	355	285	224	190	190	280	160L	345	303	158	491	235	1120	690	215	450	400	4-M16	80	3	1284	518		
	180M											351.5	315.5	180	91									1303				551	
	180M											351.5	315.5	180	91									1303				581	
200 x 150 CNGA	18.5	200	150	263	370	355	285	245	200	210	310	180L	370.5	334.5	205	491	235	1160	730	215	450	400	4-M16	93	4	1341	608		
	22											200L	395.5	372.5	290									97				1405	697
	30											225S	432	379	320									105				1448	735
	37											200L	395.5	372.5	290									97				1405	697
	30											200L	395.5	372.5	290									97				1405	697
200 x 150 CNHA	37	200	150	282	395	375	295	268	200	230	355	200L	395.5	372.5	290	506	235	1230	800	215	450	400	4-M16	98	4	1449	743		
	45											225S	432	379	320									106				1492	781
	55											225M	444.5	391.5	358									108				1517	821
	45											250S	463.5	409	520									143				1554	1018
	55											225M	444.5	391.5	358									108				1517	821
200 x 100 CNJA	45	200	100	305	450	420	335	309	200	270	445	225M	444.5	391.5	358	586	260	1370	940	215	500	450	4-M16	117	4	1595	920		
	55											250S	463.5	409	520									155				1632	1120
	75											250M	482.5	428	580									159				1670	1184
	90											280S	544	463	700									179				1766	1324
	55											250M	482.5	428	580									159				1670	1184

Unit: mm, unless otherwise stated

■ **Pump**



■ **Flange**



Dimension - Flange

D	f	e	g	t1	t	n	h
mm	mm	mm	mm	mm	mm		mm
150	305	260	230	2	28	12	25
200	350	305	275	2	30	12	25
250	430	380	345	2	34	12	27

Dimension - Pump

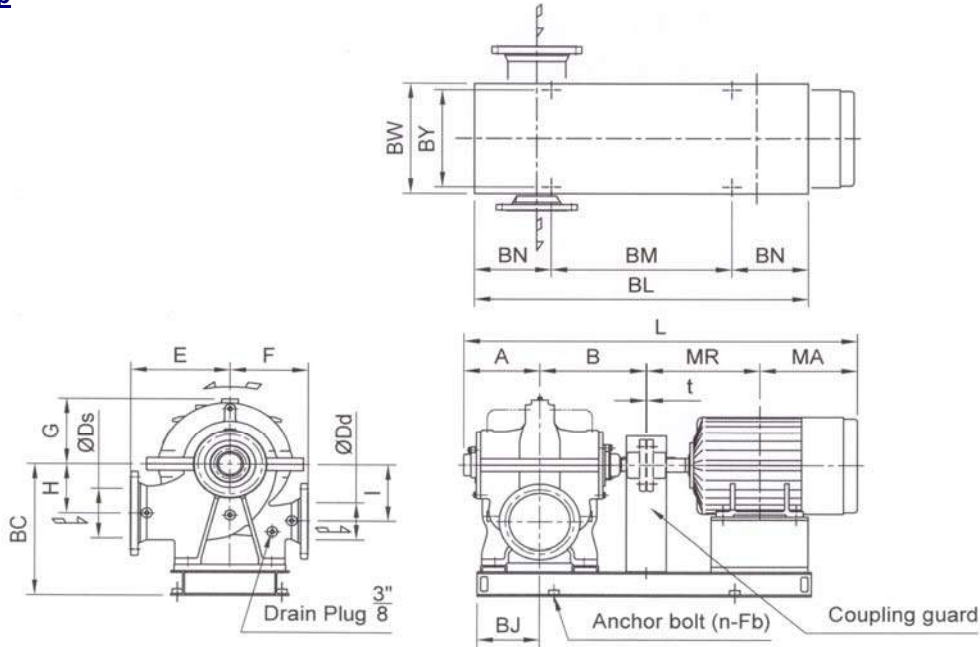
Model	Motor		Pump									Motor				Common Base							Total					
	kW	Size	Ds	Dd	A	B	E	F	G	H	I	wt kg	Frame	MR	MA	wt kg	BC	BJ	BL	BM	BN	BW	BY	n-Fb	wt kg	t	L	wt kg
250 x 200 CNEA	15	250 x 200	250	200	273	395	395	315	243	210	210	360	160L	345	303	158	541	260	1170	740	215	500	450	4-M16	90	3	1319	608
	180M												351.5	315.5	180	1180			750	103					1338		643	
	180L												370.5	334.5	205	1210			780	107					1376		672	
250 x 200 CNFA	22	250 x 200	250	200	282	395	395	315	247	210	210	380	180L	370.5	334.5	205	541	260	1260	830	215	500	450	4-M16	109	4	1449	779
	225S												432	379	320	1290			860	114					1492		814	
	225S												432	379	320	1290			860	114					1492		849	
250 x 150 CNGA	37	250 x 150	250	150	282	395	395	315	276	220	240	415	200L	395.5	372.5	290	561	260	1260	830	215	500	450	4-M16	109	4	1449	779
	225S												432	379	320	1290			860	114					1492		849	
	225S												432	379	320	1290			860	114					1492		849	
250 x 150 CNHA	45	250 x 150	250	150	282	395	395	315	276	220	240	415	225M	444.5	391.5	358	561	260	1310	880	215	500	450	4-M16	115	4	1517	888
	250S												463.5	409	520	1330			900	153					1554		1088	
	250S												463.5	409	520	1330			900	153					1554		1088	
250 x 150 CNHA	55	250 x 150	250	150	315	450	430	325	299	220	260	500	250M	463.5	409	520	586	260	1390	960	215	560	500	4-M20	155	4	1642	1175
	250M												482.5	428	580	1430			1000	159					1680		1239	
	280S												544	463	700	1500			950	179					1776		1379	
250 x 150 CNJA	75	250 x 150	250	150	315	450	430	325	299	220	260	500	250M	482.5	428	580	586	260	1520	970	275	580	520	4-M20	172	4	1765	1357
	280S												544	463	700	1580			1030	184					1861		1489	
	280M												569.5	488.5	800	1640			2x645	188					1912		1592	
250 x 150 CNJA	132	250 x 150	250	150	350	500	470	355	346	220	300	605	315S	589	517	1030	636	295	1650	2x650	175	640	580	6-M20	215	4	1960	1850
	315M												614.5	552.5	1030	1700			2x675	220					2011		1855	
	315M												614.5	552.5	1030	1700			2x675	220					2011		1855	
250 x 150 CNKA	110	250 x 150	250	150	382	530	505	430	407	290	345	835	280M	569.5	488.5	800	666	300	1680	2x665	175	640	580	6-M20	192	4	1988	1827
	315S												589	517	920	1700			2x675	220					2032		1975	
	315M												614.5	552.5	1030	1750			2x700	235					2083		2100	
	315M												614.5	552.5	1070	1750			2x700	235					2083		2140	
	315AB												666	830	1450	1910			2x740	270					2413		2555	

Unit: mm, unless otherwise stated

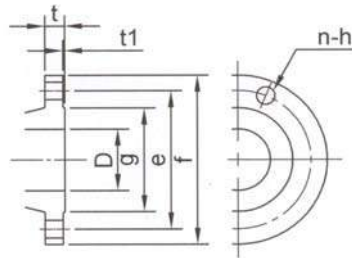
Dimensions - CNA Pump with Motor 4-Poles Drive (4/6)
(Optional : Mechanical Seal with Shaft Sleeve Type)

50 Hz

■ **Pump**



■ **Flange**



Dimension - Flange

D	f	e	g	t1	t	n	h
mm	mm	mm	mm	mm	mm	mm	mm
150	305	260	230	2	28	12	25
200	350	305	275	2	30	12	25
250	430	380	345	2	34	12	27
300	480	430	395	3	36	16	27

Dimension - Pump

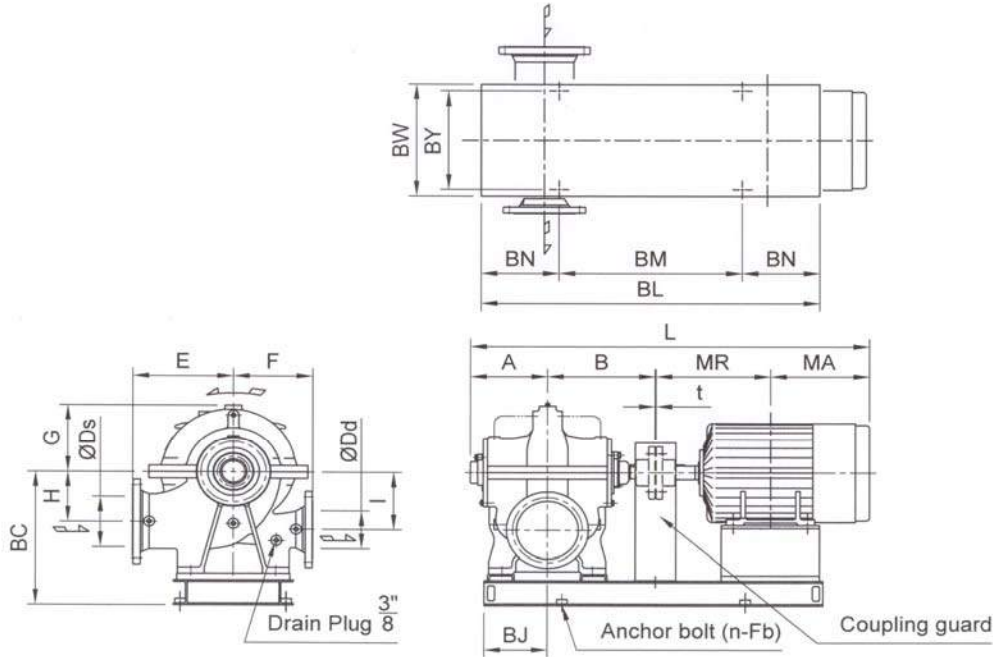
Model	Motor kW	Size		Pump									Motor				Common Base							Total				
		Ds	Dd	A	B	E	F	G	H	I	wt kg	Frame	MR	MA	wt kg	BC	BJ	BL	BM	BN	BW	BY	n-Fb	wt kg	t	L	wt kg	
300 x 250 CNEA	22	300	250	302	415	445	355	274	235	235	435	180L	370.5	334.5	205	616	295	1270	840	215	600	540	4-M20	141	4	1425	781	
	200L											395.5	372.5	290	144									1489				869
	225S											432	379	320	149									1532				904
300 x 200 CNFA	37	300	200	315	450	445	355	280	235	235	490	225M	444.5	391.5	358	616	295	1400	970	215	600	540	4-M20	160	4	1605	1010	
	250S											463.5	409	520	167									1642				1177
	250S											463.5	409	520	167									1662				1207
300 x 200 CNGA	55	300	200	315	470	445	355	300	250	270	520	250M	482.5	428	580	636	295	1480	1050	640	580	4-M20	171	4	1770	1271		
	280S											544	463	700	183								1796				1403	
	280S											544	463	700	184								1861				1509	
300 x 200 CNHA	90	300	200	350	500	465	365	332	250	290	625	280M	569.5	488.5	800	636	295	1640	2x645	640	580	4-M20	188	4	1912	1613		
	315M											589	517	1030	215								1960				1870	
	315M											614.5	552.5	1030	220								2011				1875	
	315M											614.5	552.5	1030	235								2083				2055	
300 x 150 CNJA	150	300	150	382	530	520	405	384	250	335	790	315M	614.5	552.5	1070	666	300	1750	2x700	175	640	580	6-M20	235	4	2083	2095	
	315M											614.5	552.5	1070	235									2083				2095
	315AB											666	830	1450	270									2413				2505
	315CB											741	905	1660	280									2563				2725
	315CB											741	905	1800	280									2563				2865

Unit: mm, unless otherwise stated

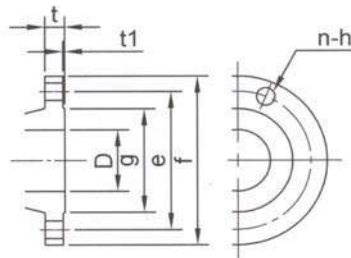
Dimensions - CNA Pump with Motor 4-Poles Drive (5/6)
(Optional : Mechanical Seal with Shaft Sleeve Type)

50 Hz

■ **Pump**



■ **Flange**



Dimension - Flange

D	f	e	g	t1	t	n	h
mm	mm	mm	mm	mm	mm		mm
200	350	305	275	2	30	12	25
250	430	380	345	2	34	12	27
300	480	430	395	3	36	16	27

Dimension - Pump

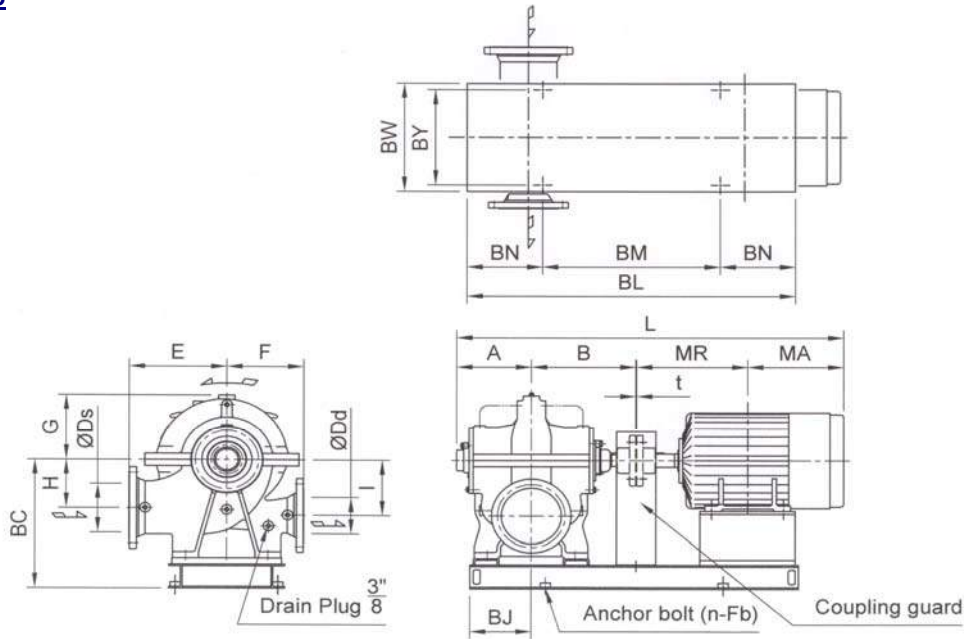
Model	Motor		Pump									Motor				Common Base							Total						
	kW		Ds	Dd	A	B	E	F	G	H	I	wt kg	Frame	MR	MA	wt kg	BC	BJ	BL	BM	BN	BW	BY	n-Fb	wt kg	t	L	wt kg	
300 x 250 CNFA	37												225S	432	379	320	636	295	1400	970	215	600	540	4-M20	160	4	1620	1050	
	45		300	250	335	470	495	405	306	250	260	570	225M	444.5	391.5	358			1410	980					162		1645	1090	
	55												250S	463.5	409	520			1440	1010					167		1682	1257	
	75												250M	482.5	428	580			1480	1050					171		1720	1321	
300 x 250 CNGA	75												250M	482.5	428	580	616	295	1370	970	275	580	520	4-M20	172	4	1775	1372	
	90		300	250	360	500	495	405	313	250	260	620	280S	544	463	700			1400	980					184		1871	1504	
	110												280M	569.5	488.5	800			1420	2x645					175		188	1922	1608
	110												280M	569.5	488.5	800			1440	2x645					189		1922	1804	
300 x 250 CNHA	132												315S	589	517	1030	636	295	1480	2x700	175	640	580	6-M20	216	4	1970	2061	
	150		300	250	360	500	495	405	337	275	295	615	315M	614.5	552.5	1030			1550	2x725					221		2021	2066	
	150												315M	614.5	552.5	1030			1750	2x700					235		2083	2130	
	185												315M	614.5	552.5	1070			1750	2x700					235		2083	2170	
300 x 200 CNJA	220												315AB	666	830	1450	666	300	1910	2x740	215	640	580	6-M20	270	4	2413	2585	
	260		300	200	382	530	525	415	379	275	320	865	315CB	741	905	1660			2060	2x755					280		2563	2805	
	260												315CB	741	905	1660			2060	2x755					280		2563	2805	
	300												315CB	741	905	1800			2060	2x755					280		2563	2945	
	300												315CB	741	905	1800			2060	2x755					280		2563	2945	

Unit: mm, unless otherwise stated

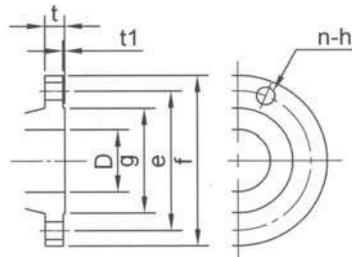
Dimensions - CNA Pump with Motor 4-Poles Drive (6/6)
(Optional : Mechanical Seal with Shaft Sleeve Type)

50 Hz

Pump



Flange



Dimension - Flange

D	f	e	g	t1	t	n	h
mm	mm	mm	mm	mm	mm	mm	mm
250	430	380	345	2	34	12	27
300	480	430	395	3	36	16	27
350	540	480	440	3	38	16	33
400	605	540	495	3	42	16	33

Dimension - Pump

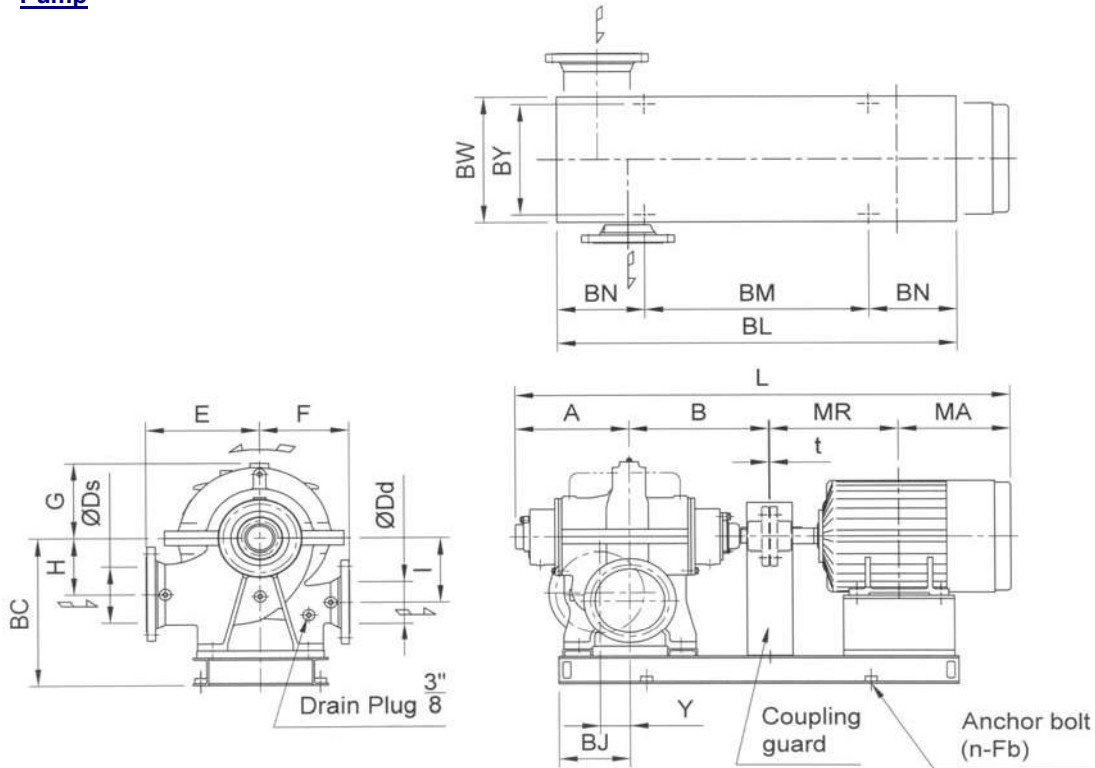
Model	Motor kW	Size		Pump							wt kg	Motor				Common Base							Total				
		Ds	Dd	A	B	E	F	G	H	I		Frame	MR	MA	wt kg	BC	BJ	BL	BM	BN	BW	BY	n-Fb	wt kg	t	L	wt kg
350 x 300 CNFA	90	350	300	386	530	560	450	345	310	310	805	280S	544	463	700	775	355	1700	2x675	175	790	720	6-M22	250	4	1927	1750
	110											280M	569.5	488.5	800			1750	2x700	175				265		1978	1870
	132											315S	589	517	1030			1770	2x710	175				270		2026	2105
	132											315S	589	517	920			1770	2x710	175				270		2026	1985
350 x 250 CNGA	150	350	250	386	530	560	450	350	310	303	795	315M	614.5	552.5	1030	775	355	1820	2x695	215	790	720	6-M22	285	4	2087	2110
	185											315M	614.5	552.5	1070			1820	2x695	215				285		2087	2150
	185											315M	614.5	552.5	1070			1850	2x710	215				290		2145	2210
	220											315AB	666	830	1450			200	2x725	275				315		2474	2615
350 x 250 CNHA	260	350	250	414	560	560	440	373	315	330	850	315CB	741	905	1660	775	355	2150	3x600	175	790	720	8-M22	335	5	2624	2845
	300											315CB	741	905	1800			2150	3x600	175				335		2624	2985
	335											315DB	841	1005	1900			2350	3x640	215				350		2824	3100
	90											280S	544	463	700			1810	2x730	175				275		2062	2010
400 x 350 CNEA	110	400	350	451	600	570	470	355	320	320	1035	280M	569.5	488.5	800	805	390	1860	2x715	215	790	720	6-M22	285	4	2113	2120
	132											315S	589	517	1030			1870	2x720	215				285		2161	2350
	150											315M	614.5	552.5	1030			1920	2x745	215				295		2222	2360
	150											315M	614.5	552.5	1030			1910	2x740	215				295		2195	2365
400 x 350 CNFA	185	400	350	439	585	625	510	385	305	344	1045	315M	614.5	552.5	1070	805	390	1910	2x740	215	790	720	6-M22	295	4	2195	2405
	220											315M	614.5	552.5	1070			2050	2x750	275				315		2524	2805
	220											315AB	666	830	1450			2050	2x750	275				315		2524	2805

Unit: mm, unless otherwise stated

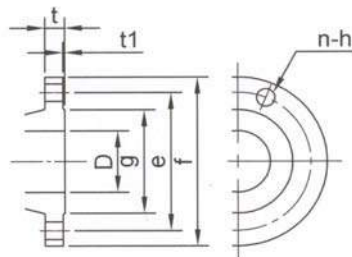
Dimensions - CNA Pump with Motor 4 Pole Drive
(Optional : Gland Packing Type)

50 Hz

Pump



Flange



Dimension - Pump

D	f	e	g	t1	t	n	h
mm	mm	mm	mm	mm	mm	mm	mm
80	200	160	135	2	24	8	23
100	225	185	160	2	26	8	23
125	270	225	195	2	26	8	25

Dimension - Pump

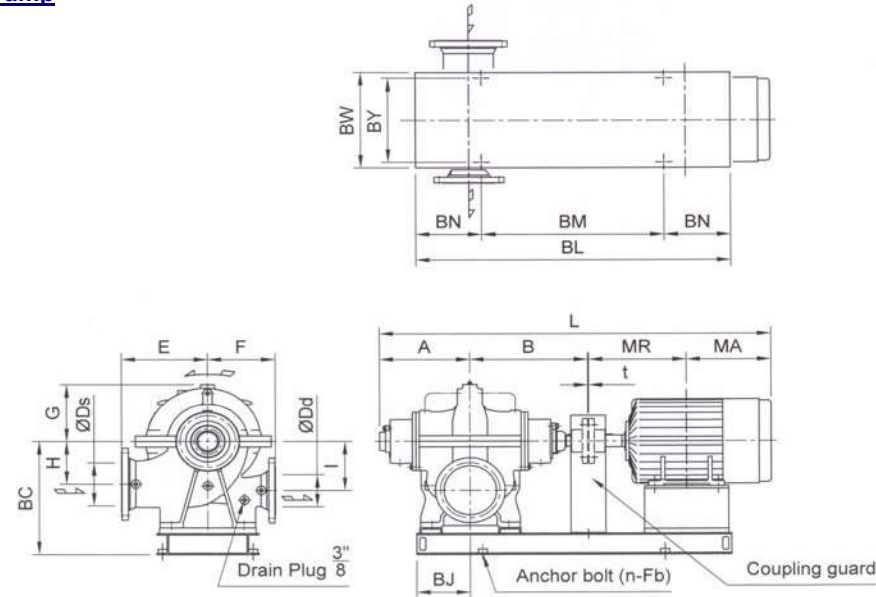
Model	Motor		Pump										Motor				Common Base								Total				
	kW	Size	Ds	Dd	A	B	E	F	G	H	I	Y	wt kg	Frame	MR	MA	wt kg	BC	BJ	BL	BM	BN	BW	BY	n-Fb	wt kg	t	L	wt kg
100 x 80 CSGA	2.2	100 x 80	100	80	314	385	270	240	169	140	140	70	147	100L	193	170	30	411	170	855	555	150	380	330	4-M12	40	3	1065	217
	112M													200	182	42	865			565	40							1084	229
	112M													200	182	42	865			565	40							1084	252
100 x 80 CSHA	5.5	100 x 80	100	80	314	385	280	220	185	150	160	70	170	132S	239	207	65	411	170	905	605	150	380	330	4-M12	41	3	1148	276
	132M													258	226	76	945			645	42							1186	286
	132S													239	207	65	905			605	41							1148	312
100 x 80 CSJA	7.5	100 x 80	100	80	314	385	280	230	202	160	180	70	206	132M	258	226	76	411	170	945	645	150	380	330	4-M12	42	3	1186	324
	160M													323	281	120	1025			725	46							1306	372
	132S													239	207	65	905			605	41							1148	312
125 x 100 CSJA	15	125 x 100	125	100	340	440	350	280	263	200	230	80	288	160L	345	303	158	491	235	1195	845	175	450	400	4-M16	82	3	1431	528
	180M													351.5	315.5	180	1195			845	92							1450	560
	180L													370.5	334.5	205	1235			805	95							1488	588
	200L													395.5	372.5	290	1235			845	99							1552	677

Unit: mm, unless otherwise stated

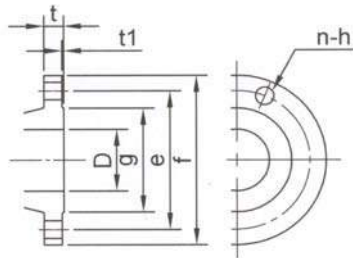
Dimensions - CNA Pump with Motor 4-Poles Drive (1/6)
(Optional : Gland Packing Type)

50 Hz

Pump



Flange



Dimension - Flange

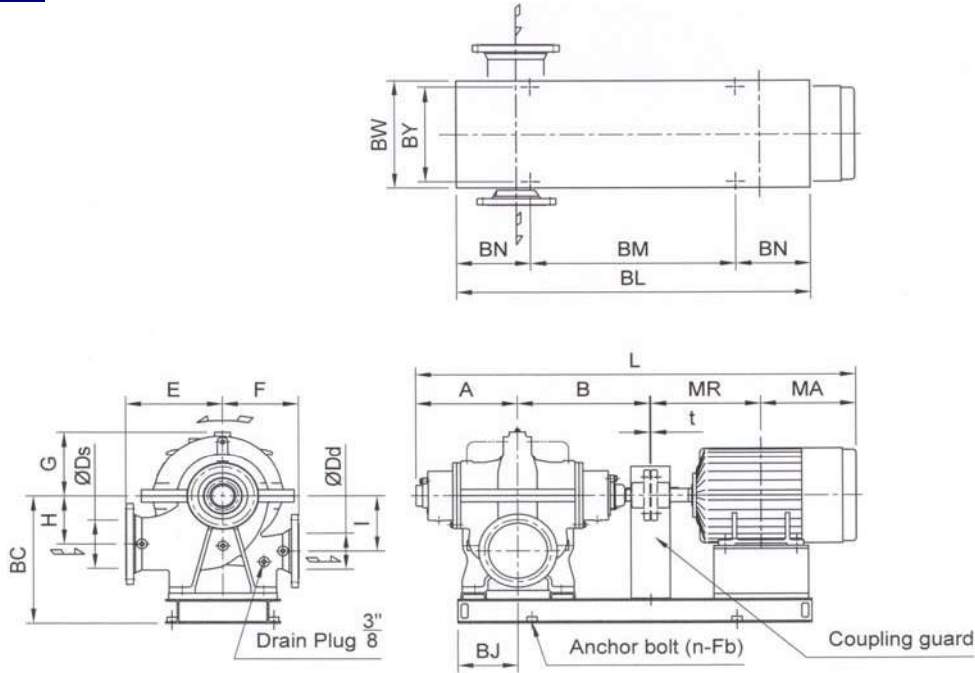
D	f	e	g	t1	t	n	h
mm	mm	mm	mm	mm	mm		mm
80	200	160	135	2	24	8	23
100	225	185	160	2	26	8	23
125	270	225	195	2	26	8	25
150	305	260	230	2	28	12	25

Dimension - Pump

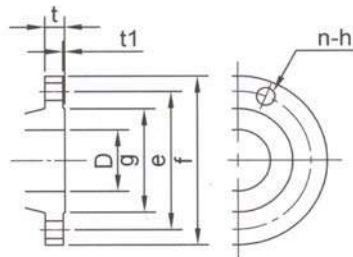
Model	Motor		Pump									Motor				Common Base							Total				
	kW	Size	Ds	Dd	A	B	E	F	G	H	I	wt kg	Frame	MR	MA	wt kg	BC	BJ	BL	BM	BN	BW	BY	n-Fb	wt kg	t	L
125 x 100 CNGA	3.7	125	100	326	450	290	250	181	150	150	215	112M	200	182	42	411	170	930	630	150	380	330	4-M12	41	3	1161	298
	132S											239	207	65	970			670	42					1225		322	
	132M											258	226	76	1000			650	47					1263		338	
125 x 100 CNHA	7.5	125	100	326	450	300	250	195	150	160	249	132M	258	226	76	411	170	1000	650	175	380	330	4-M12	47	3	1263	372
	160M											323	281	120	1090			740	58				1383	427			
	160M											323	281	120	1110			760	62				1383	440			
125 x 80 CNJA	11	125	80	326	450	330	250	226	150	190	258	160L	345	303	158	411	190	1150	800	175	400	350	4-M16	64	3	1427	480
	180M											351.5	315.5	180	1160			810	84				1446	522			
	132M											258	226	76	1075			725	72				1317	408			
150 x 150 CNFA	7.5	150	150	355	475	330	290	205	180	170	260	160M	323	281	120	471	210	1075	725	175	450	400	4-M16	75	3	1437	455
	160M											323	281	120	1155			805	79				1476	482			
	160M											323	281	120	1180			750	79				1476	482			
150 x 125 CNGA	15	150	125	364	505	330	260	224	190	190	283	160L	345	303	158	471	210	1230	800	215	450	400	4-M16	81	3	1520	522
	180M											351.5	315.5	180	1240			810	88				1539	551			
	180M											351.5	315.5	180	1205			775	87				1500	545			
150 x 125 CNHA	18.5	150	125	355	475	350	280	243	190	210	278	180L	370.5	334.5	205	471	210	1245	815	215	450	400	4-M16	89	3	1538	572
	200L											395.5	372.5	290	1285			855	97				1602	665			
	200L											395.5	372.5	290	1340			910	100				1641	730			
150 x 100 CNJA	30	150	100	364	505	380	290	269	190	240	340	200L	395.5	372.5	290	506	235	1340	910	215	500	450	4-M16	100	4	1684	768
	225S											432	379	320	1370			940	108				1709	808			
	225M											444.5	391.5	358	1400			970	110				1709	808			

Unit: mm, unless otherwise stated

Pump



Flange



Dimension - Flange

D	f	e	g	t1	t	n	h
mm	mm	mm	mm	mm	mm	n	mm
100	225	185	160	2	26	8	23
150	305	260	230	2	28	12	25
200	350	305	275	2	30	12	25

Dimension - Pump

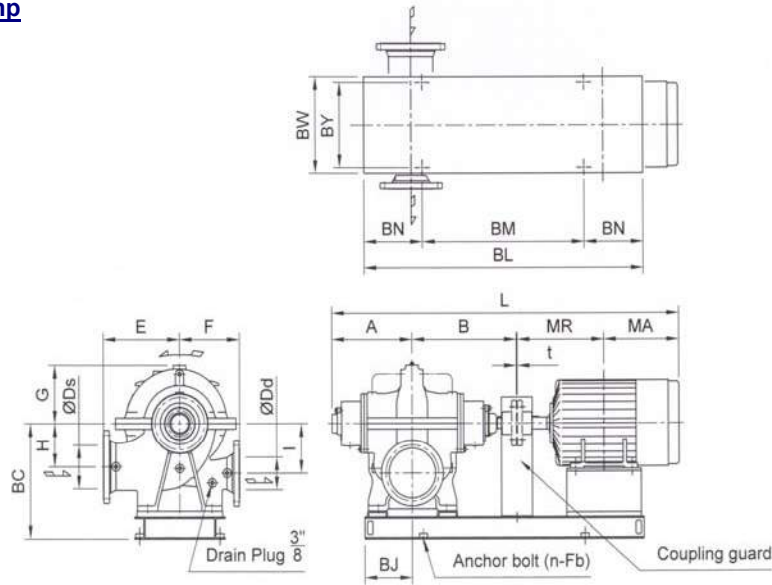
Model	Motor		Pump									Motor				Common Base							Total					
	kW	Size	Ds	Dd	A	B	E	F	G	H	I	wt kg	Frame	MR	MA	wt kg	BC	BJ	BL	BM	BN	BW	BY	n-Fb	wt kg	t	L	wt kg
200 x 200 CNEA	7.5		200	200	356	475	355	300	223	190	190	278	132M	258	226	76	491	235	1095	745	175	450	400	4-M16	77	3	1318	431
	15	160M											323	281	120	1175			825	81					1438		479	
		160L											345	303	158	1225			795	215					83		1482	519
200 x 150 CNFA	15		200	150	356	475	355	285	224	190	190	288	160L	345	303	158	491	235	1225	795	215	450	400	4-M16	83	3	1482	529
	18.5	180M											351.5	315.5	180	1235			805	94					1501		562	
		180M											351.5	315.5	180	1235			805	94					1501		593	
200 x 150 CNGA	22		200	150	356	475	355	285	245	200	210	319	180L	370.5	334.5	205	491	235	1265	835	215	450	400	4-M16	96	3	1539	620
	30	200L											395.5	372.5	290	1315			885	100					1602		709	
	37	225S											432	379	320	1345			915	108					1646		747	
		200L											395.5	372.5	290	1340			910	101					1658		757	
		225S											432	379	320	1370			940	109					1701		795	
200 x 150 CNHA	37		200	150	381	505	375	295	268	200	230	366	225M	444.5	391.5	358	506	235	1400	970	215	500	450	4-M16	111	4	1726	835
	55	250S											463.5	409	520	1420			990	146					1759		1032	
		225M											444.5	391.5	358	1480			1050	120					1810		936	
		250S											463.5	409	520	1500			1070	158					1847		1136	
200 x 100 CNJA	45		200	100	410	560	420	335	309	200	270	458	250M	482.5	428	580	586	260	1540	1110	215	560	500	4-M20	162	4	1885	1200
	75	280S											544	463	700	1610			1060	182					1981		1340	
		250M											482.5	428	580	1540			1110	162					1885		1200	
		280S											544	463	700	1610			1060	182					1981		1340	

Unit: mm, unless otherwise stated

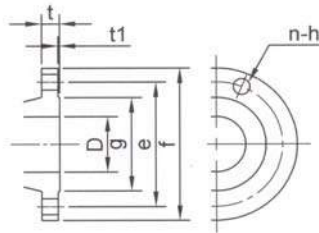
Dimensions - CNA Pump with Motor 4-Poles Drive (3/6)
(Optional : Gland Packing Type)

50 Hz

Pump



Flange



Dimension - Flange

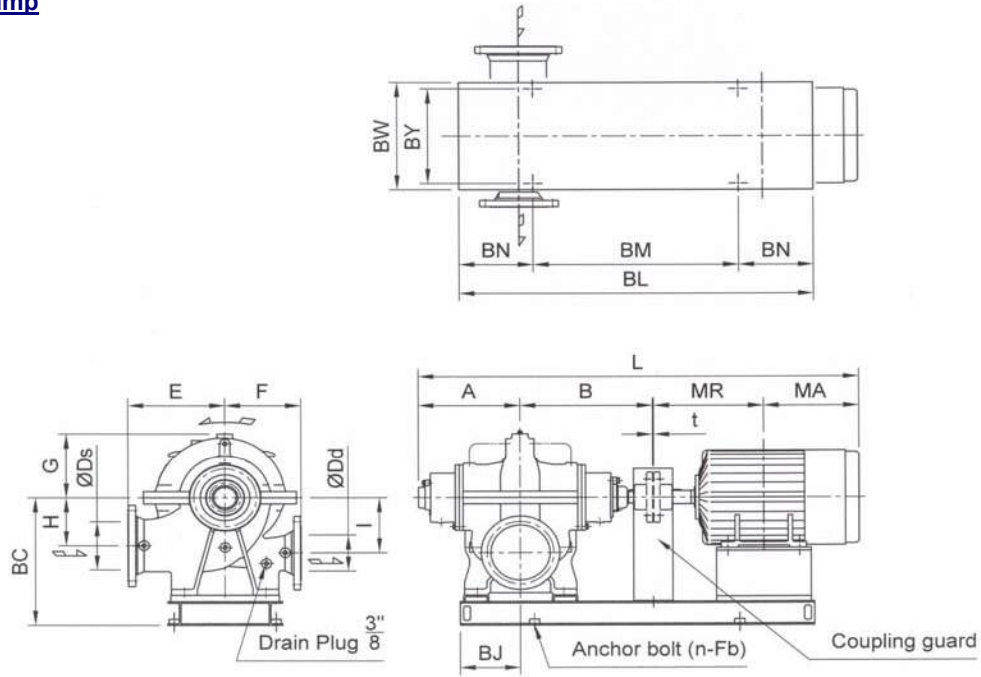
D	f	e	g	t1	t	n	h
mm	mm	mm	mm	mm	mm		mm
150	305	260	230	2	28	12	25
200	350	305	275	2	30	12	25
250	430	380	345	2	34	12	27

Dimension - Pump

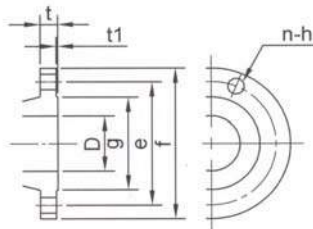
Model	Motor		Pump									Motor				Common Base								Total			
	kW	Size	Ds	Dd	A	B	E	F	G	H	I	wt kg	Frame	MR	MA	wt kg	BC	BJ	BL	BM	BN	BW	BY	n-Fb	wt kg	t	L
250 x 200 CNEA	15	250	200	366	475	395	315	243	210	210	370	160L	345	303	158	541	260	1250	820	215	500	450	4-M16	93	3	1492	621
	18.5											180M	351.5	315.5	180			110	1511					656			
	22											180L	370.5	334.5	205			110	1549					685			
250 x 200 CNFA	22	250	200	381	505	395	315	247	210	210	390	180L	370.5	334.5	205	541	260	1320	890	215	500	450	4-M16	110	3	1594	705
	30											200L	395.5	372.5	290			112	1658					792			
	37											225S	432	379	320			117	1701					827			
250 x 150 CNGA	37	250	150	381	505	395	315	276	220	240	427	225S	432	379	320	561	260	1400	970	215	500	450	4-M16	117	4	1701	864
	45											225M	444.5	391.5	358			118	1726					903			
	55											250S	463.5	409	520			156	1763					1103			
250 x 150 CNHA	55	250	150	420	560	430	325	299	220	260	515	250S	463.5	409	520	586	260	1500	1070	215	560	500	4-M20	158	4	1857	1193
	75											250M	482.5	428	580			162	1895					1257			
	90											280S	544	463	700			182	1991					1397			
250 x 150 CNJA	75	250	150	468	610	470	355	346	220	300	623	250M	483	428	580	636	295	1630	1080	275	640	580	4-M20	175	4	1993	1378
	90											280S	544	463	700			187	2089					1510			
	110											280M	569.5	488.5	800			191	2140					1614			
	132											315S	589	517	1030			219	2188					1872			
	150											315M	614.5	552.5	1030			224	2249					1877			
250 x 150 CNKA	110	250	150	467	615	505	430	407	290	345	872	280M	569.5	488.5	800	666	300	2090	2x770	275	640	580	6-M22	280	4	2144	1952
	132											315S	589	517	920			300	2192					2092			
	150											315M	614.5	552.5	1030			305	2253					2207			
	185											315M	614.5	552.5	1070			310	2253					2252			
	220											315AB	666	830	1450			280	2583					2602			

Unit: mm, unless otherwise stated

■ **Pump**



■ **Flange**



Dimension - Flange

D	f	e	g	t1	t	n	h
mm	mm	mm	mm	mm	mm	mm	mm
150	305	260	230	2	28	12	25
200	350	305	275	2	30	12	25
250	430	380	345	2	34	12	27
300	480	430	395	3	36	16	27

Dimension - Pump

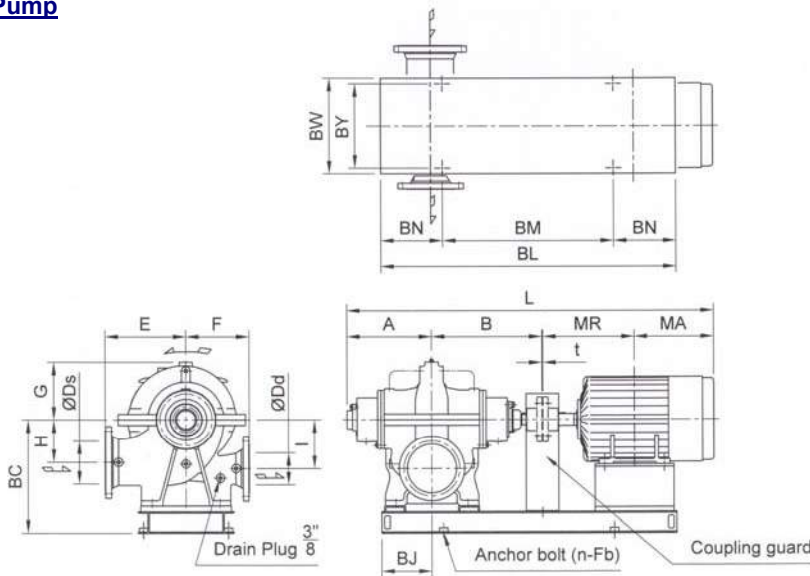
Model	Motor kW	Size		Pump									Motor				Common Base								Total			
		Ds	Dd	A	B	E	F	G	H	I	wt kg	Frame	MR	MA	wt kg	BC	BJ	BL	BM	BN	BW	BY	n-Fb	wt kg	t	L	wt kg	
300 x 250 CNEA	22	300	250	401	515	445	355	274	235	235	448	180L	370.5	334.5	205	616	295	1370	940	215	600	540	4-M20	144	4	1625	797	
	200L											395.5	372.5	290	1410			980	152					1731		885		
	225S											432	379	320	1440			1010	152					1731		920		
300 x 200 CNFA	37	300	200	420	560	445	355	280	235	235	505	225S	432	379	320	616	295	1480	1050	215	600	540	4-M20	163	4	1795	988	
	225M											444.5	391.5	358	1510			1080	165					1820		1028		
	250S											463.5	409	520	1530			1100	170					1857		1195		
300 x 200 CNGA	55	300	200	420	565	445	355	300	250	270	535	250S	463.5	409	520	636	295	1535	1105	215	640	580	4-M20	170	4	1862	1225	
	250M											482.5	428	580	1575			1145	174					1900		1289		
	280S											544	463	700	1645			1095	275					186		1996	1421	
300 x 200 CNHA	90	300	200	468	610	465	365	332	250	290	644	280S	544	463	700	636	295	1690	1140	275	640	580	4-M20	187	4	2089	1531	
	280M											569.5	488.5	800	1750			2x700	191	2140				1635				
	315S											589	517	1030	1760			2x700	175	219				2188		1893		
	315M											614.5	552.5	1030	1810			2x730	224	2249				1898				
300 x 150 CNJA	150	300	150	467	615	520	405	384	250	335	813	315M	614.5	552.5	1030	666	300	1750	2x700	175	640	580	6-M20	235	4	2083	2078	
	185											315M	614.5	552.5	1070			1750	2x700					235		2083	2118	
	220											315AB	666	830	1450			2000	3x550					280		2583	2543	
	260											315CB	741	905	1660			2150	3x600					300		5	2733	2773
	300											315CB	741	905	1800			2150	3x600					300		5	2733	2913

Unit: mm, unless otherwise stated

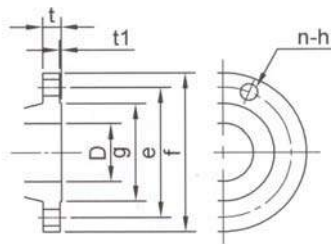
Dimensions - CNA Pump with Motor 4-Poles Drive (5/6)
(Optional : Gland Packing Type)

50 Hz

Pump



Flange



Dimension - Flange

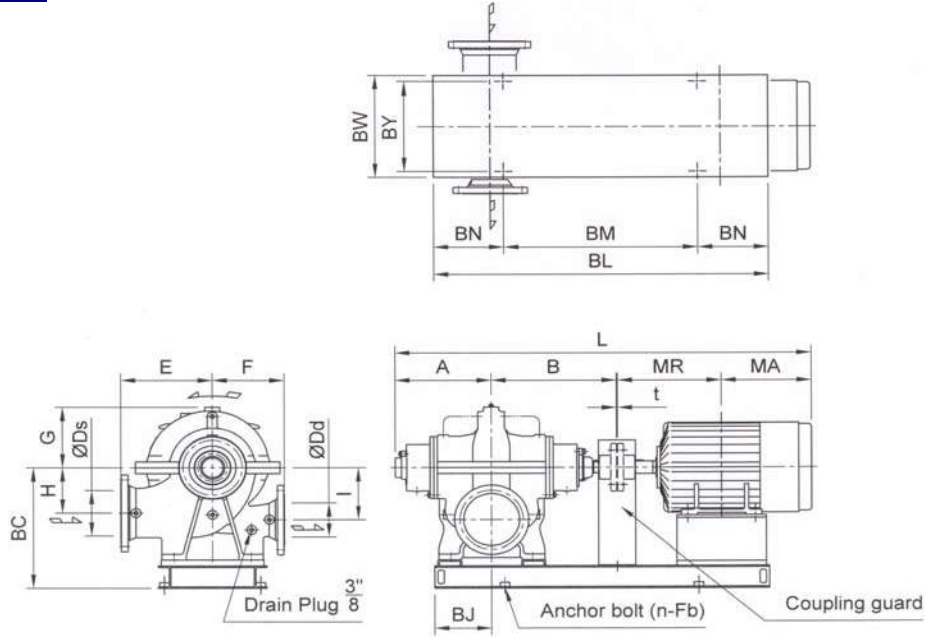
D	f	e	g	t1	t	n	h
mm	mm	mm	mm	mm	mm	mm	mm
200	350	305	275	2	30	12	25
250	430	380	345	2	34	12	27
300	480	430	395	3	36	16	27

Dimension - Pump

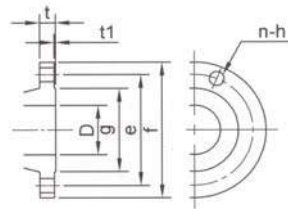
Model	Motor		Pump								Motor				Common Base							Total					
	kW	Size	Ds	Dd	A	B	E	F	G	H	I	wt kg	Frame	MR	MA	wt kg	BC	BJ	BL	BM	BN	BW	BY	n-Fb	wt kg	t	L
300 x 250 CNFA	37	300	250	440	575	495	405	306	250	260	587	225S	432	379	320	636	295	1505	1075	215	600	540	4-M20	163	4	1830	1070
	45											225M	444.5	391.5	358									165	1855	1110	
	55											250S	463.5	409	520									170	1892	1277	
	75											250M	482.5	428	580									174	1930	1341	
300 x 250 CNGA	75	300	250	478	620	495	405	313	250	260	638	250M	482.5	428	580	616	295	1700	1050	275	640	580	4-M20	175	4	2109	1525
	90											280S	544	463	700									187	2109	1525	
	110											280M	569.5	488.5	800									191	2160	1629	
	110											280M	569.5	488.5	800									192	2160	1624	
300 x 250 CNHA	132	300	250	478	620	495	405	337	275	295	632	315S	589	517	1030	636	295	1770	2x710	175	640	580	6-M20	220	4	2208	1882
	150											315M	614.5	552.5	1030									225	2269	1887	
	150											315M	614.5	552.5	1030									235	2083	2165	
	185											315M	614.5	552.5	1070									235	2083	2205	
300 x 200 CNJA	220	300	200	467	615	525	415	379	275	320	900	315AB	666	830	1450	666	300	2000	3x550	175	700	640	6-M20	280	5	2583	2630
	260											315CB	741	905	1660									300	2733	2860	
	300											315CB	741	905	1800									300	2733	3000	
	220											315AB	666	830	1450									320	2681	2888	
300 x 200 CNKA	260	300	200	505	675	570	475	436	290	380	###	315CB	741	905	1660	735	355	2270	3x640	175	790	720	8-M22	335	5	2831	3113
	300											315CB	741	905	1660									335	2831	1995	
	335											315CB	741	905	1660	335	2831	1995									
	370											315DB	841	1005	1900	365	3031	2265									
	450											355AB	779	970	2150	785	350	2934	2500								
	450											400CB	990	1135	2500	785	380	3310	3998								

Unit: mm, unless otherwise stated

Pump



Flange



Dimension - Flange

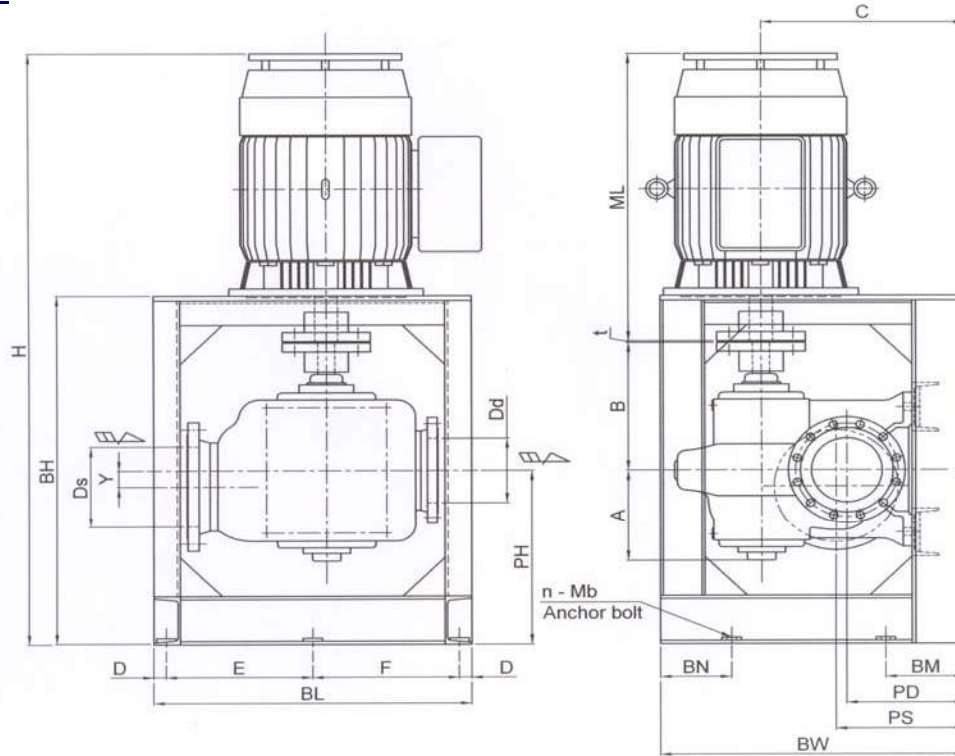
D	f	e	g	t1	t	n	h
mm	mm	mm	mm	mm	mm	mm	mm
250	430	380	345	2	34	12	27
300	480	430	395	3	36	16	27
350	540	480	440	3	38	16	33
400	605	540	495	3	42	16	33

Dimension - Pump

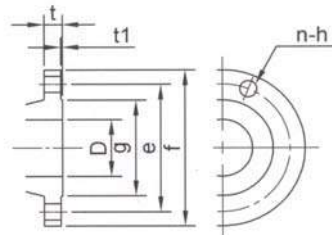
Model	Motor		Pump									Motor				Common Base							Total				
	kW	Size	Ds	Dd	A	B	E	F	G	H	I	wt kg	Frame	MR	MA	wt kg	BC	BJ	BL	BM	BN	BW	BY	n-Fb	wt kg	t	L
350 x 300 CNFA	90	350	300	481	613	560	450	345	310	310	836	280S	544	463	700	775	355	1780	2x675	215	790	720	6-M22	265	4	2105	1801
	110											280M	569.5	488.5	800			1830	2x700					275		2156	1911
	132											315S	589	517	920			1850	2x710					280		2204	2036
350 x 250 CNGA	150	350	250	481	613	560	450	350	310	303	823	315S	589	517	920	775	355	1850	2x710	215	790	720	6-M22	280	4	2265	2148
	185											315M	614.5	552.5	1030			1900	2x735					295		2265	2188
	185											315M	614.5	552.5	1070			1900	2x735					295		2265	2188
350 x 250 CNHA	220	350	250	491	645	560	440	373	315	330	885	315AB	666	830	1450	775	355	1930	2x750	215	790	720	6-M22	300	4	2307	2255
	260											315CB	741	905	1660			2080	2x765	275				320		2637	2655
	300											315CB	741	905	1880			2230	3x600	215				340		2787	2885
400 x 350 CNEA	335	400	350	536	685	570	470	355	320	320	1062	315DB	841	1005	1900	805	390	2240	3x630	275	790	720	6-M22	360	4	2987	3145
	90											280S	544	463	700			1890	2x730	280				2232		2042	
	110											280M	569.5	488.5	800			1940	2x755	290				2283		2152	
400 x 350 CNFA	132	400	350	522	670	625	510	385	305	344	1076	315S	589	517	920	805	390	1960	2x705	275	790	720	6-M22	290	4	2331	2272
	150											315M	614.5	552.5	1030			2010	2x730					300		2392	2392
	150											315M	614.5	552.5	1030			1990	2x720					300		2363	2406
400 x 350 CNFA	185	400	350	522	670	625	510	385	305	344	1076	315AB	666	830	1450	805	390	2150	3x600	175	790	720	6-M22	300	4	2363	2446
	220											315AB	666	830	1450			2150	3x600					320		2693	2846

Unit: mm, unless otherwise stated

Pump



Flange



Dimension - Flange

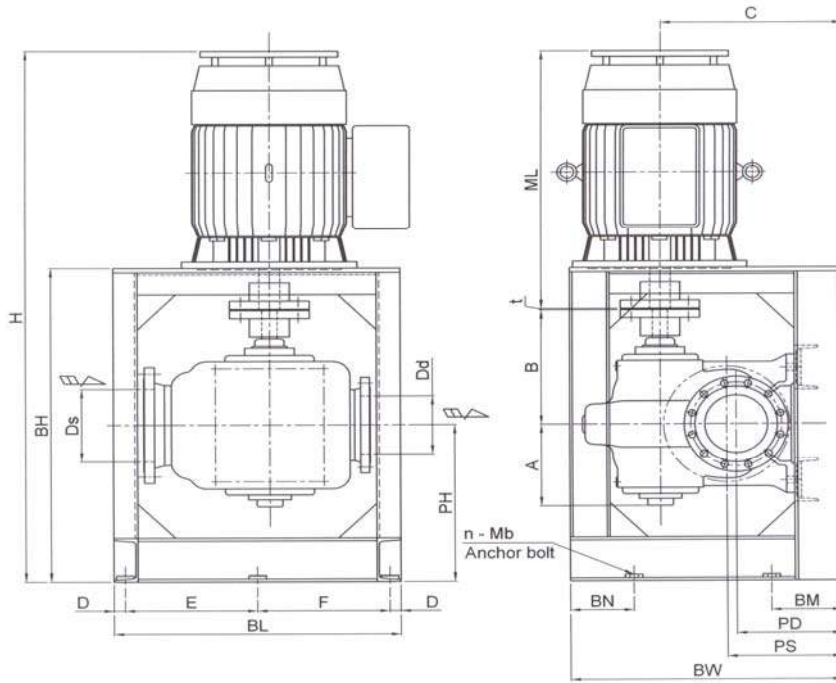
D	f	e	g	t1	t	n	h
mm	mm	mm	mm	mm	mm		mm
80	200	160	135	2	24	8	23
100	225	185	160	2	26	8	23
125	270	225	195	2	26	8	25

Dimension - Pump

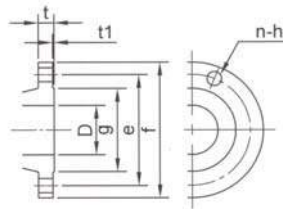
Model	Motor		Pump							Motor			Common Base							Total									
	kW	Size	Ds	Dd	A	B	E	F	Y	wt kg	Frame	ML	wt kg	BC	BL	BW	BH	BM	BN	n-Mb	wt kg	t	C	D	H	PD	PH	PS	wt kg
100 x 80 CSGA	2.2		100	80	221	250	270	240	70	143	100LD	363	35	650	700	561	793	150	100	6-M16	62.7	3	411	95	1105	271	437	271	240
	3.7										112MD	422	48								62.7				1161				254
100 x 80 CSHA	3.7		100	80	221	250	280	220	70	165	132SD	446	70	640	690	586	773	150	100	6-M16	62.7	3	411	95	1144	251	437	261	309
	5.5										132MD	484	80								73.5				1182				319
	7.5										132SD	446	70								62.1				1144				332
100 x 80 CSJA	5.5		100	80	221	250	280	230	70	200	132MD	484	80	650	700	611	773	150	150	6-M16	62.1	3	411	95	1182	231	437	251	342
	7.5										160MD	604	128								65.2				1298				393
	11										160LD	648	166								75.4				1490				521
125 x 100 CSJA	15		125	100	247	325	350	280	80	280	180MCD	667	173	760	820	741	951	200	150	6-M20	75.4	3	516	95	1510	286	510	316	528
	18.5										180LCD	705	213								75.4				1548				568
	22										200LCD	768	290								75.4				1608				645
	30																												

Unit: mm, unless otherwise stated

Pump



Flange



Dimension - Flange

D	f	e	g	t1	t	n	h
mm	mm	mm	mm	mm	mm	mm	mm
80	200	160	135	2	24	8	23
100	225	185	160	2	26	8	23
125	270	225	195	2	26	8	25
150	305	260	230	2	28	12	25

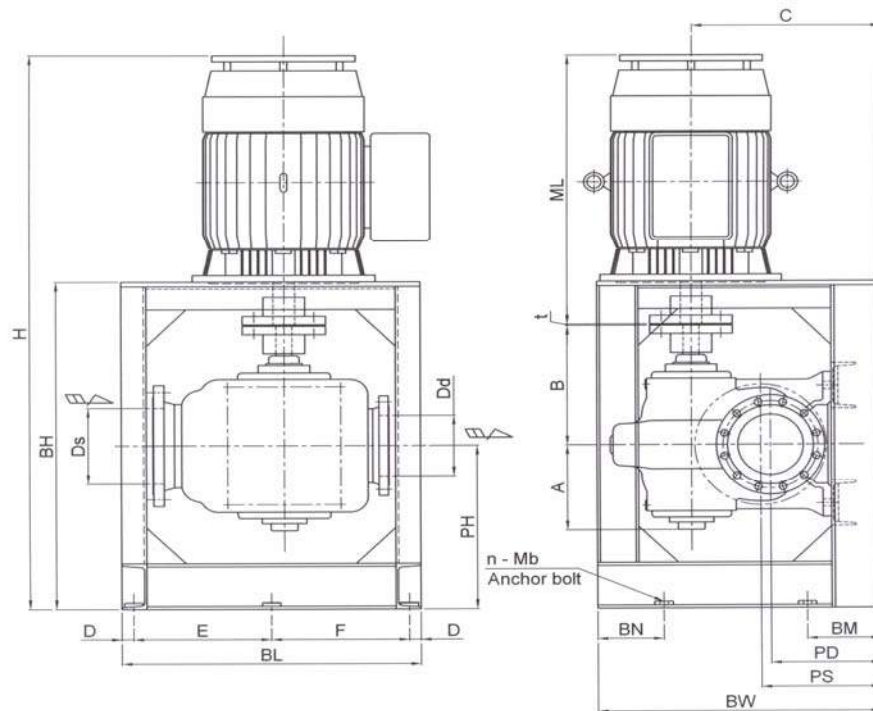
Dimension - Pump

Model	Motor		Pump					Motor			Common Base							Total											
	kW	Size	Ds	Dd	A	B	E	F	wt kg	Frame	ML	wt kg	BC	BL	BW	BH	BM	BN	n-Mb	wt kg	t	C	D	H	PD	PH	PS	wt kg	
125 x 100 CNGA	3.7	125	100	231	350	290	250	209	112MD	431	48	680	730	586	869	150	100	6-M16	68	3	411	95	1237	261	453	261	348		
	5.5								132SD	454	70												889					1298	358
	7.5								132MD	492	80												1298					391	
125 x 100 CNHA	7.5	125	100	231	350	300	250	242	132MD	492	80	690	740	611	889	150	150	6-M16	69	3	411	95	1298	251	453	261	441		
	11								160MD	608	128												1414					450	
	15								160MD	608	128												1414					450	
125 x 80 CNJA	11	125	80	231	350	330	250	250	160MD	608	128	720	770	611	919	150	150	6-M20	72	3	411	95	1458	221	453	261	488		
	15								160LD	652	166												1478					495	
	18.5								180MCD	672	173												1478					495	
150 x 150 CNFA	7.5	150	150	262	370	330	290	253	132MD	492	80	760	810	671	956	200	150	6-M16	75	3	471	95	1365	301	500	291	408		
	11								160MD	608	128				986								1481					458	
	15								160MD	608	128				1540								479						
150 x 125 CNGA	11	150	125	262	395	330	260	275	160LD	652	166	720	780	696	1045	200	150	6-M20	76	3	496	95	1584	306	534	306	517		
	15								180MCD	672	173												1604					524	
	18.5								180MCD	672	173												1570					520	
150 x 125 CNHA	22	150	125	262	370	350	280	270	180LCD	710	213	760	820	721	1011	200	150	6-M20	77	3	496	95	1608	286	525	306	560		
	30								200LCD	770	290												1668					637	
	37								200LCD	770	290												1703					701	
150 x 100 CNJA	37	150	100	271	395	380	290	330	225SCD	816	335	800	860	781	1046	200	200	6-M20	81	4	531	95	1749	291	534	341	748		
	45								225MCD	841	378				1076								791						
	45								225MCD	841	378				1774								791						

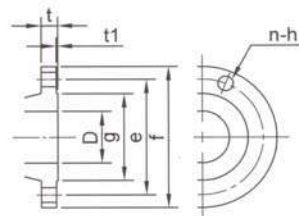
Unit: mm, unless otherwise stated

(Optional : Vertical Mount)

Pump



Flange



Dimension - Pump

D	f	e	g	t1	t	n	h
mm	mm	mm	mm	mm	mm		mm
100	225	185	160	2	26	8	23
150	305	260	230	2	28	12	25
200	350	305	275	2	30	12	25

Dimension - Pump

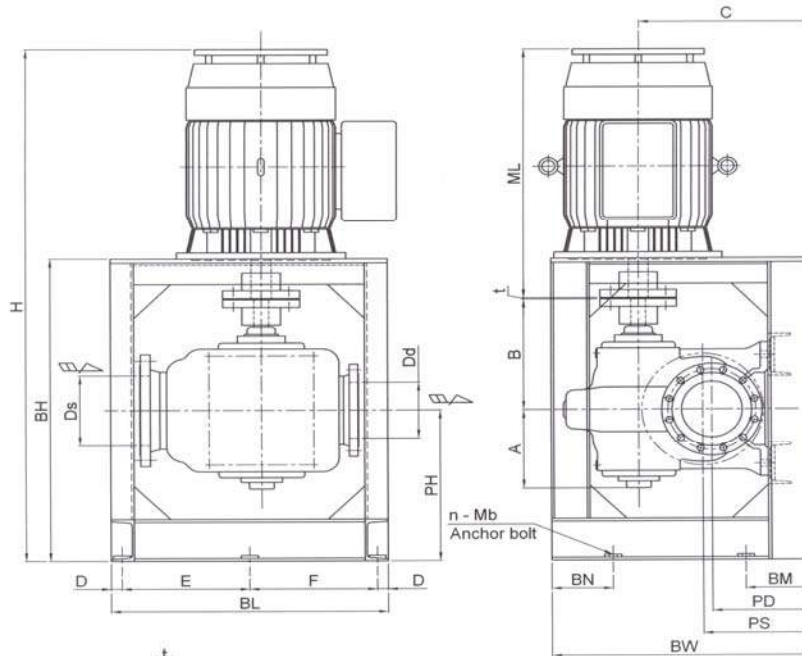
Model	Motor		Pump					Motor			Common Base							Total									
	kW	Size	Ds	Dd	A	B	E	F	wt kg	Frame	ML	wt kg	BC	BL	BW	BH	BM	BN	n-Mb	wt kg	t	C	D	H	PD	PH	PS
200 x 200 CNEA	7.5	200	200	263	370	355	300	270	132MD	492	80	785	845	716	974	200	150	6-M20	81	3	516	95	1383	326	518	326	431
	11								160MD	608	128				83				1499				481				
	15								160LD	652	166				1543				519								
200 x 150 CNFA	15	200	150	263	370	355	285	280	160LD	652	166	770	830	716	1004	200	150	6-M20	78	3	516	95	1543	326	518	326	524
	18.5								180MCD	672	173				1563				453								
	22								180MCD	672	173				1563				561								
200 x 150 CNGA	22	200	150	263	370	355	285	310	180LCD	710	213	770	830	766	1004	200	200	6-M20	78	3	516	95	1601	306	518	316	601
	30								200LCD	770	290				1661				678								
	37								225SCD	816	335				1707				724								
	30								200LCD	770	290				1711				727								
	37								225SCD	816	335				1757				773								
200 x 150 CNHA	45	200	150	282	395	375	295	355	225MCD	841	378	800	860	831	1084	200	200	6-M20	83	4	531	95	1782	301	542	331	816
	55								250SCD	882.5	540				1824				978								
	45								225MCD	841	378				1905				913								
	55								250SCD	882.5	540				1947				1075								
200 x 100 CNJA	75	200	100	305	450	420	335	445	250MCD	920.5	600	935	1005	915	1207	250	200	6-M22	90	4	615	125	1985	345	610	415	1135
	90								280SCD	1022	720				2086				1265								

Unit: mm, unless otherwise stated

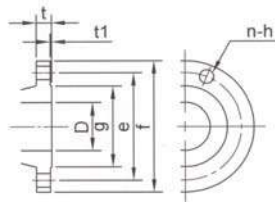
Dimensions - CNA Pump with Motor 4-Poles Drive (3/6)
(Optional : Vertical Mount)

50 Hz

Pump



Flange



Dimension - Flange

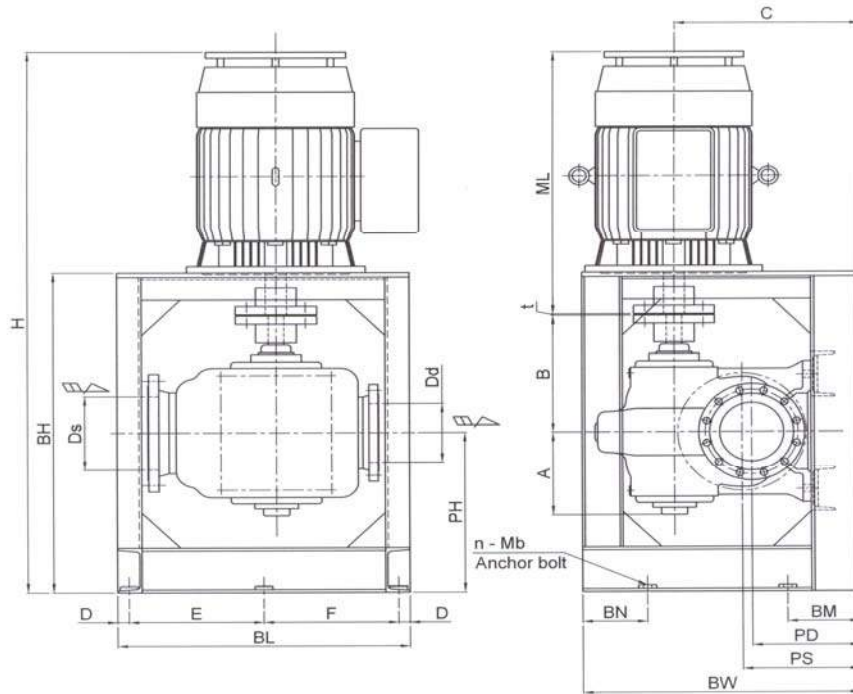
D	f	e	g	t1	t	n	h
mm	mm	mm	mm	mm	mm		mm
150	305	260	230	2	28	12	25
200	350	305	275	2	30	12	25
250	430	380	345	2	34	12	27

Dimension - Pump

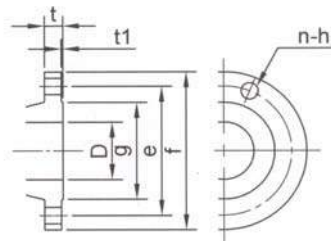
Model	Motor		Pump					Motor			Common Base							Total											
	kW	Size	Ds	Dd	A	B	E	F	wt kg	Frame	ML	wt kg	BC	BL	BW	BH	BM	BN	n-Mb	wt kg	t	C	D	H	PD	PH	PS	wt kg	
250 x 200 CNEA	15	250	200	273	395	395	315	360	160LD	652	166	900	960	770	1039	200	200	6-M20	83	3	570	125	1578	360	528	360	609		
	18.5								180MCD	672	173												1598				533		
	22								180LCD	710	213												1636				573		
250 x 200 CNFA	22	250	200	282	395	395	315	380	180LCD	710	213	900	960	820	1053	200	200	6-M20	85	3	570	125	1650	360	542	360	678		
	30								200LCD	770	290												1710				670		
	37								225SCD	816	335												1756				801		
	37								225SCD	816	335												1757				837		
250 x 150 CNGA	45	250	150	282	395	395	315	415	225MCD	841	378	900	960	890	1084	200	200	6-M20	87	4	590	125	1782	350	542	370	880		
	55								250SCD	882.5	540												1824				955		
	55								250SCD	882.5	540												1957				1189		
250 x 150 CNHA	75	250	150	315	450	430	325	500	250MCD	920.5	600	935	1005	915	1217	250	200	6-M22	149	4	615	125	1995	355	620	395	1249		
	90								280SCD	1022	720												2096				1371		
	75								250MCD	920.5	600												2100				1365		
200 x 150 CNJA	90	250	150	350	500	470	355	605	280SCD	1022	720	1005	1075	1020	1352	250	200	6-M22	160	4	665	125	2201	365	675	445	1487		
	110								280MCD	1072	820												2251				1587		
	132								315SCD	1116	1050												2295				1817		
	150								315MCD	1167	1250												2346				2017		
250 x 150 CNKA	110	250	150	382	530	505	430	835	280MCD	1072	820																		
	132								315SCD	1116	1050																		
	150								315MCD	1167	1250																		
	185								315MCD	1167	1250																		
	220								315MCD	1167	1250																		

Unit: mm, unless otherwise stated

Pump



Flange



Dimension - Flange

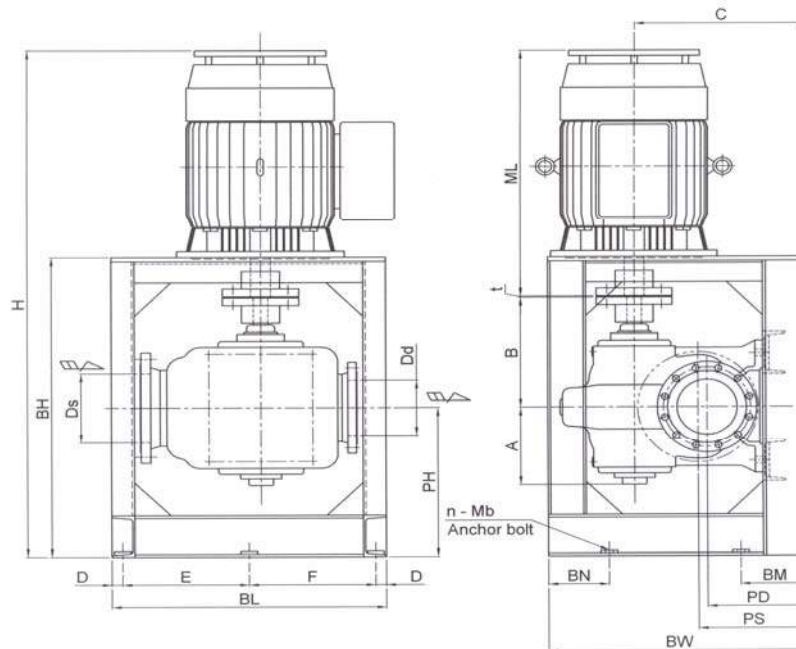
D	f	e	g	t1	t	n	h
mm	mm	mm	mm	mm	mm	mm	mm
150	305	260	230	2	28	12	25
200	350	305	275	2	30	12	25
250	430	380	345	2	34	12	27
300	480	430	395	3	36	16	27

Dimension - Pump

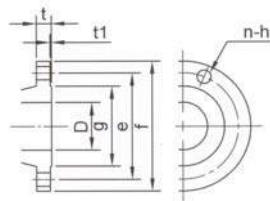
Model	Motor kW	Size		Pump					Motor			Common Base							Total								
		Ds	Dd	A	B	E	F	wt kg	Frame	ML	wt kg	BC	BL	BW	BH	BM	BN	n-Mb	wt kg	t	C	D	H	PD	PH	PS	wt kg
300 x 250 CNEA	22	300	250	302	415	445	355	435	180LCD	710	213	980	1050	895	1119	225	200	6-M22	146	4	645	125	1716	410	587	410	794
	30								200LCD	770	290				1149				1776				725				
	37								225SCD	816	335				1822				919								
300 x 200 CNFA	37	300	200	315	450	445	355	490	225SCD	816	335	980	1050	945	1217	225	200	6-M22	149	4	645	125	1890	410	620	410	976
	45								225MCD	841	378								1915				1019				
	55								250SCD	882.5	540								1957				1030				
300 x 200 CNGA	55	300	200	315	470	445	355	520	250SCD	882.5	540	980	1050	965	1237	225	200	6-M22	154	4	665	125	1977	395	620	415	1214
	75								250MCD	920.5	600				2015				1274								
	90								280SCD	1022	720				2116				1396								
300 x 200 CNHA	90	300	200	350	500	465	365	625	280SCD	1022	720	1010	1080	1020	1352	225	200	6-M22	162	4	665	125	2201	375	675	415	1507
	110								280MCD	1072	820								2251				1445				
	132								315SCD	1116	1050								2295				1838				
	150								315MCD	1167	1250								2346				2038				
300 x 150 CNJA	150	300	150	382	530	520	405	785	315MCD	1167	1250								163								
	185								315MCD	1167	1250																
	220																										
	260																										
300																											

Unit: mm, unless otherwise stated

Pump



Flange



Dimension - Flange

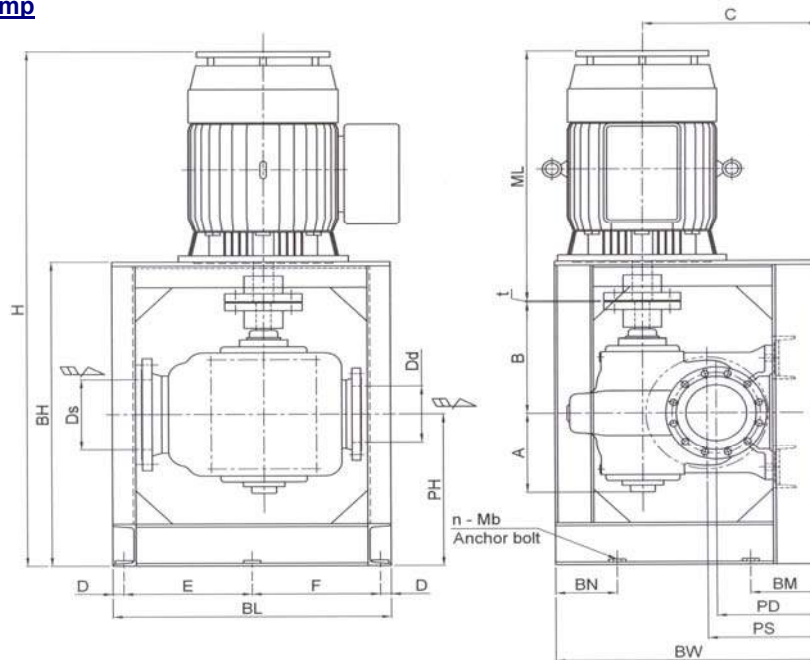
D	f	e	g	t1	t	n	h
mm	mm	mm	mm	mm	mm		mm
200	350	305	275	2	30	12	25
250	430	380	345	2	34	12	27
300	480	430	395	3	36	16	27

Dimension - Pump

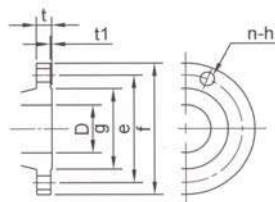
Model	Motor		Pump					Motor			Common Base							Total											
	kW	Size	Ds	Dd	A	B	E	F	wt kg	Frame	ML	wt kg	BC	BL	BW	BH	BM	BN	n-Mb	wt kg	t	C	D	H	PD	PH	PS	wt kg	
300 x 250 CNFA	37									225SCD	816	213																	
	45									225MCD	841	290											1930						945
	55	300	250	335	470	495	405	570		250SCD	882.5		1080	1150	965								1955	405	640	415		860	
	75									250MCD	920.5	335											1997					732	
300 x 250 CNGA	75									250MCD	920.5	335											2035					905	
	90	300	250	360	500	495	405	620		280SCD	1022	378											2110					1119	
	110									280MCD	1072	540	1080	1150	965								2211	405	685	415		1164	
	110									280MCD	1072	540											2261					1160	
300 x 250 CNHA	110									280MCD	1072	540											2261					1321	
	132	300	250	360	500	495	405	615		315SCD	1116	600	1080	1150	1045	1362	225	200	6-M22	166	4	690	125	2305	395	685	415	1381	
	150									315MCD	1167	720											2305					1335	
	150									315MCD	1167	720																	
300 x 200 CNJA	185									315MCD	1167	820																	
	220	300	200	382	530	525	415	860																					
	260																												
	300																												
300 x 200 CNKA	220																												
	260																												
	300	300	200	415	585	570	475	1070																					
	335																												
	450																												

Unit: mm, unless otherwise stated

Pump



Flange



Dimension - Flange

D	f	e	g	t1	t	n	h
mm	mm	mm	mm	mm	mm		mm
250	430	380	345	2	34	12	27
300	480	430	395	3	36	16	27
350	540	480	440	3	38	16	33
400	605	540	495	3	42	16	33

Dimension - Pump

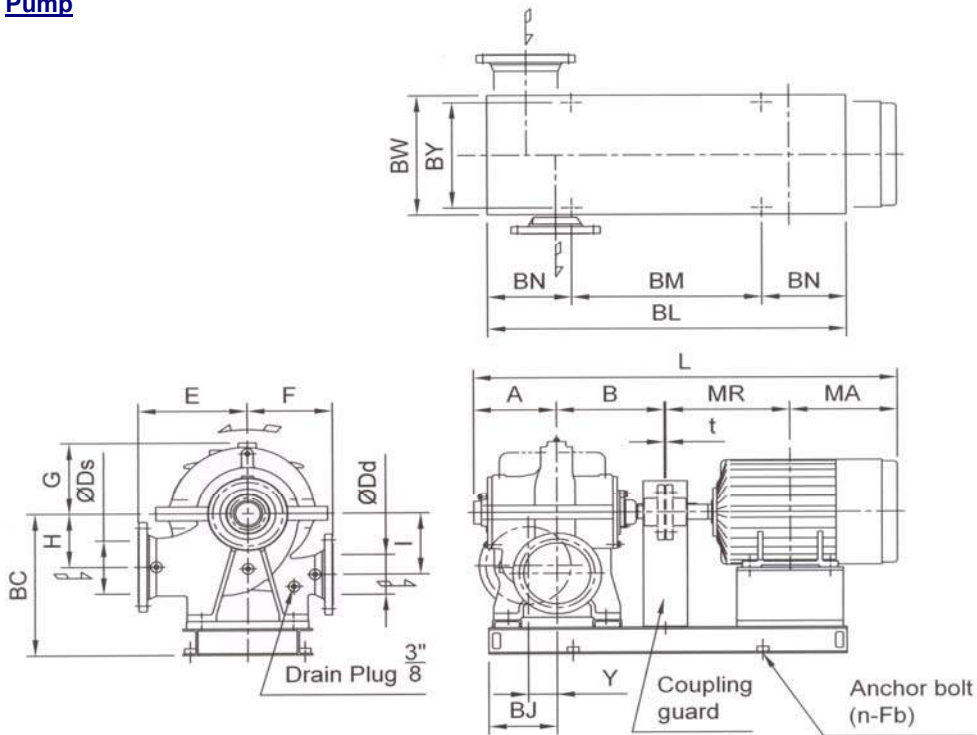
Model	Motor	Pump						Motor			Common Base							Total																						
	kW	Ds	Dd	A	B	E	F	wt kg	Frame	ML	wt kg	BC	BL	BW	BH	BM	BN	n-Mb	wt kg	t	C	D	H	PD	PH	PS	wt kg													
350 x 300 CNFA	75	350	300	386	530			800	250MCD	921	600																													
	90								280SCD	1022	720																													
	110								280MCD	1072	820																													
350 x 250 CNGA	110	350	250	386	530			790	280MCD	1072	820																													
	132								315SCD	1116	1050																													
	150								315MCD	1167	1250																													
	185								315MBD	1167	1250																													
350 x 250 CNHA	185	350	250	414	560			845	315MBD	1167	1250																													
	220																																							
	260																																							
	300																																							
	335																																							
400 x 350 CNEA	90	400	350	451	600			1030	280SCD	1022	720																													
	110								280MCD	1072	820																													
	132								315SCD	1116	1050																													
	150								315MCD	1167	1250																													
	150								315MCD	1167	1250																													
400 x 350 CNFA	185	400	350	439	585			1045	315MBD	1167	1250																													
	220																																							

Unit: mm, unless otherwise stated

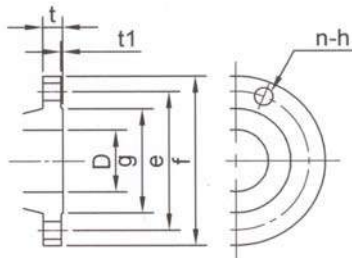
Dimensions - CSA Pump with Motor 2-Poles Drive
(Standard : Mechanical Seal Type)

50 Hz

■ **Pump**



■ **Flange**



Dimension - Flange

D	f	e	g	t1	t	n	h
mm	mm	mm	mm	mm	mm		mm
80	200	160	135	2	24	8	23
100	225	185	160	2	26	8	23

Dimension - Pump

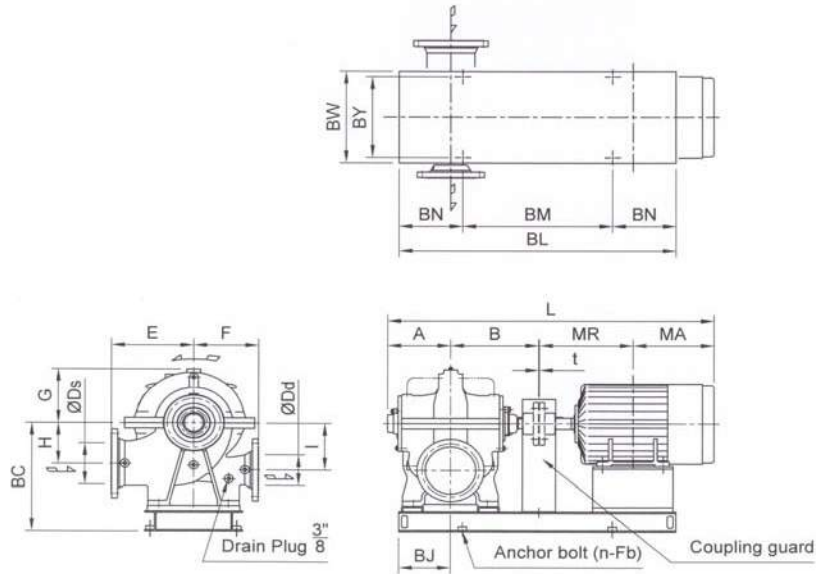
Model	Motor		Pump									Motor				Common Base								Total						
	kW		Ds	Dd	A	B	E	F	G	H	I	Y	wt kg	Frame	MR	MA	wt kg	BC	BJ	BL	BM	BN	BW	BY	n-Fb	wt kg	t	L	wt kg	
100 x 80 CSGA	15		100	80	221	250	270	240	169	140	140	70	143	160M	343	259	130	445	185	950	520	215	370	310	4-M20	97	3	1076	370	
	18.5													160L	368	284	146			950	97		1126	386						
	22													180MA	379.5	292.5	193			1010	580		425	365		102		1146	438	
	30													200LA	425.5	344.5	280			1090	660		470	410		110		1245	533	
100 x 80 CSHA	30		100	80	221	250	280	220	185	150	160	70	165	200LA	425.5	344.5	280	445	185	1090	660	215	470	410	4-M20	110	4	1245	445	
	37													200LA	425.5	344.5	301			1090	113		1245	579						
	45													225MA	446.5	364.5	362			1110	680		520	460		4-M22		121	1286	648

Unit: mm, unless otherwise stated

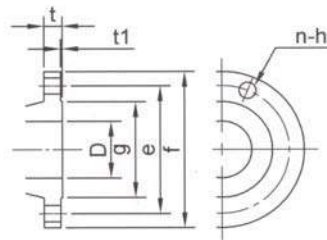
Dimensions - CNA Pump with Motor 2-Poles Drive
(Standard : Mechanical Seal Type)

50 Hz

Pump



Flange



Dimension - Flange

D mm	f mm	e mm	g mm	t1 mm	t mm	n	h mm
80	200	160	135	2	24	8	23
100	225	185	160	2	26	8	23
125	270	225	195	2	26	8	25
150	305	260	230	2	28	12	25

Dimension - Pump

Model	Motor		Pump								Motor				Common Base								Total				
	kW	Size	Ds	Dd	A	B	E	F	G	H	I	wt kg	Frame	MR	MA	wt kg	BC	BJ	BL	BM	BN	BW	BY	n-Fb	wt kg	t	L
125 x 100 CNGA	30	125	100	231	350	290	250	181	150	150	209	200LA	425.5	344.5	280	445	185	1190	760	215	490	430	4-M20	135	4	1355	624
	200LA											425.5	344.5	301	135									1355			
	225MA											446.5	364.5	362	470	185	1210	780	215	540	470	4-M22	146	4	1396	717	
	250SA											500.5	382	472									150				1468
125 x 100 CNHA	45	125	100	231	350	300	250	195	150	160	242	225MA	446.5	364.5	362	470	185	1210	780	215	540	470	4-M22	148	4	1396	752
	250SA											500.5	382	472	154									1468			
	250MA											520.5	400	545	470	185	1310	880	215	590	520	4-M22	161	4	1506	948	
	280SA											552.5	439.5	660									168				1577
125 x 80 CNJA	75	125	80	231	350	330	250	226	150	190	250	250MA	520.5	400	545	470	205	1330	900	215	590	520	4-M22	166	4	1506	961
	280SA											552.5	439.5	660	170									1577			
	280MA											577.5	464.5	770	470	205	1420	990	215	650	580	4-M22	176	4	1627	1196	
	250SA											500.5	382	472									168				1519
150 x 150 CNFA	55	150	150	262	370	330	290	205	180	170	253	250MA	520.5	400	545	530	225	1330	840	245	590	520	4-M22	171	4	1557	969
	250MA											520.5	400	545	178									1628			
	280SA											552.5	439.5	660	530	225	1410	920	245	650	580	4-M22	182	4	1678	1205	
	280MA											577.5	464.5	770									182				1678
150 x 125 CNGA	90	150	125	262	395	330	260	224	190	190	275	280SA	552.5	439.5	660	530	225	1440	950	245	650	580	4-M22	180	4	1653	1115
	280MA											577.5	464.5	770	187									1703			
	315SA											601.0	485	1010	530	225	1510	865	215	705	635	6-M22	190	4	1747	1475	
	315MA											626.0	511	1150									202				1798

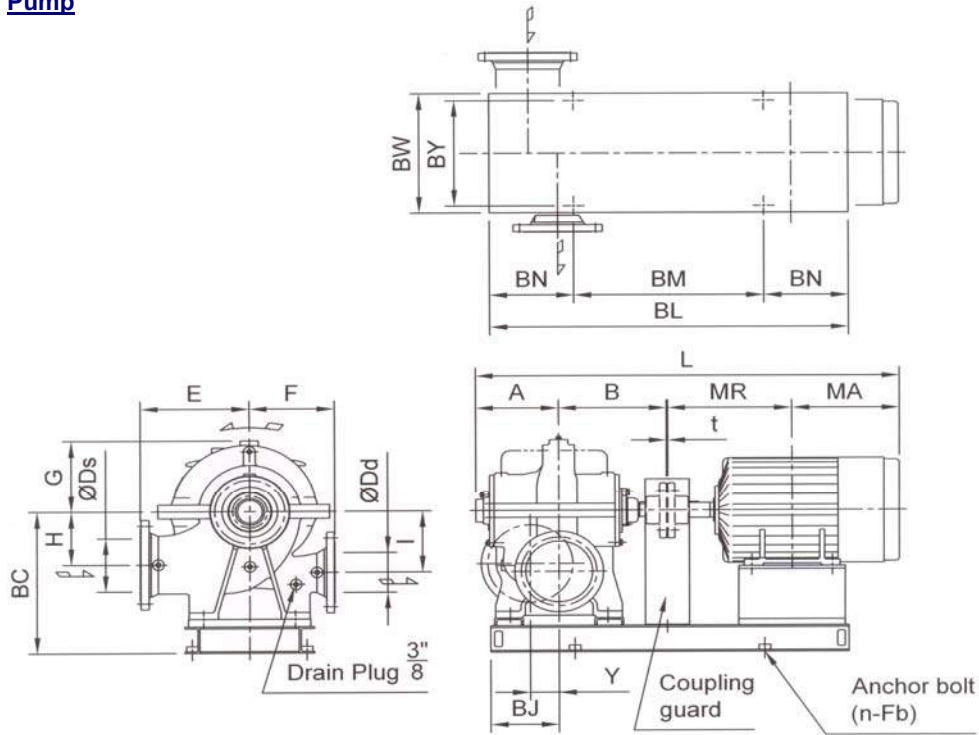
Unit: mm, unless otherwise stated

Dimensions - CSA Pump with Motor 2-Poles Drive

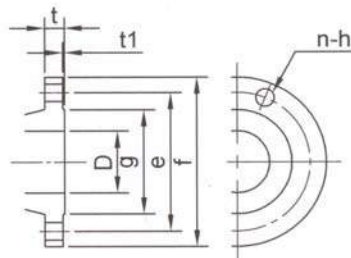
50 Hz

(Optional : Mechanical Seal with Shaft Sleeve Type)

Pump



Flange



Dimension - Flange

D	f	e	g	t1	t	n	h
mm	mm	mm	mm	mm	mm		mm
80	200	160	135	2	24	8	23
100	225	185	160	2	26	8	23

Dimension - Pump

Model	Motor		Size		Pump								Motor				Common Base								Total					
	kW		Ds	Dd	A	B	E	F	G	H	I	Y	wt kg	Frame	MR	MA	wt kg	BC	BJ	BL	BM	BN	BW	BY	n-Fb	wt kg	t	L	wt kg	
100 x 80 CSGA	15		100	80	221	250	270	240	169	140	140	70	143	160M	343	259	130	445	185	950	520	215	370	310	4-M20	97	3	1076	370	
	18.5	160L												368	284	146	950			97	1126					386				
	22	180MA												379.5	292.5	193	1010			580	425					365		102	1146	438
	30	200LA												425.5	344.5	280	1090			660	470					410		110	1245	533
100 x 80 CSHA	30		100	80	221	250	280	220	185	150	160	70	165	200LA	425.5	344.5	280	445	185	1090	660	215	470	410	4-M20	110	4	1245	445	
	37	200LA												425.5	344.5	301	1090			113	1245					579				
	45	225MA												446.5	364.5	362	1110			680	520					460		121	1286	648

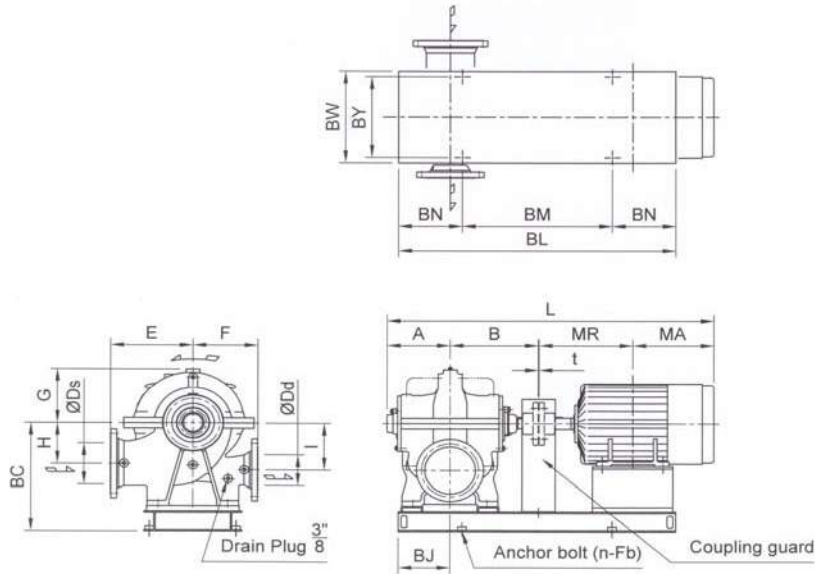
Unit: mm, unless otherwise stated

Dimensions - CNA Pump with Motor 2-Poles Drive

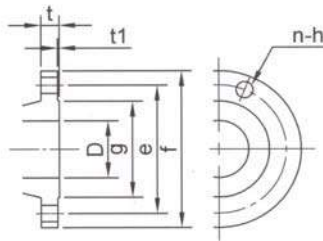
50 Hz

(Optional : Mechanical Seal with Shaft Sleeve Type)

Pump



Flange



Dimension - Flange

D mm	f mm	e mm	g mm	t1 mm	t mm	n	h mm
80	200	160	135	2	24	8	23
100	225	185	160	2	26	8	23
125	270	225	195	2	26	8	25
150	305	260	230	2	28	12	25

Dimension - Pump

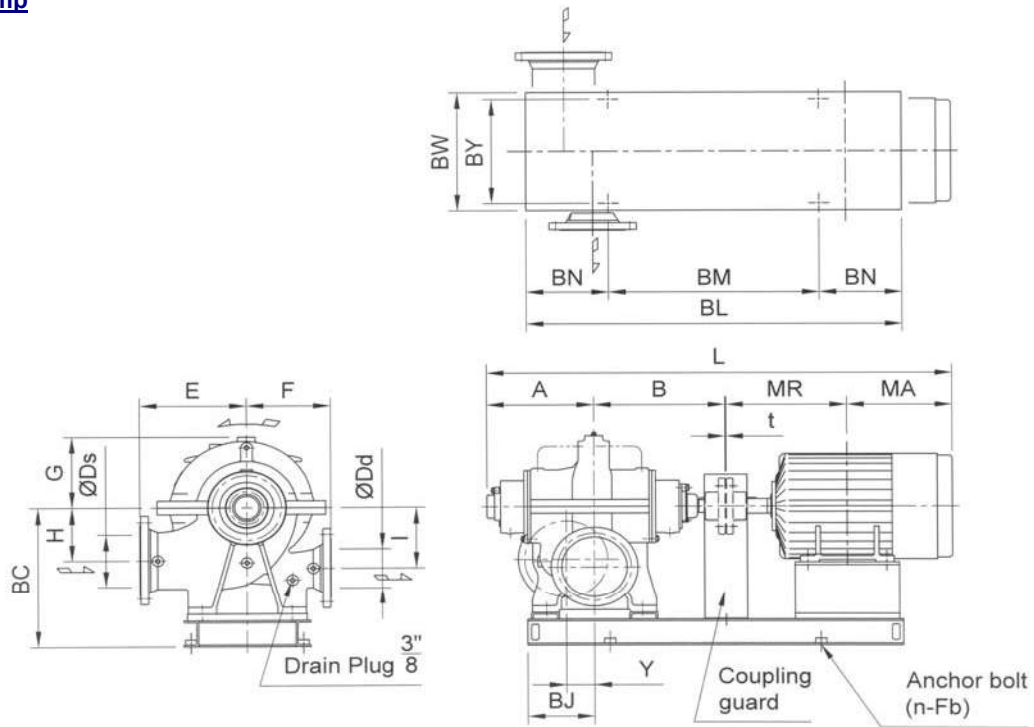
Model	Motor		Pump									Motor			Common Base								Total				
	kW	Size	Ds	Dd	A	B	E	F	G	H	I	wt kg	Frame	MR	MA	wt kg	BC	BJ	BL	BM	BN	BW	BY	n-Fb	wt kg	t	L
125 x 100 CNGA	30	125	100	231	350	290	250	181	150	150	209	200LA	425.5	344.5	280	445	185	1190	760	215	490	430	4-M20	135	4	1355	624
	37											200LA	425.5	344.5	301									1190		135	1355
	45											225MA	446.5	364.5	362	1210	146	1396	717								
	55											250SA	500.5	382	472	1270	150	1468	831								
125 x 100 CNHA	45	125	100	231	350	300	250	195	150	160	242	225MA	446.5	364.5	362	470	185	1210	780	215	540	470	4-M22	148	4	1396	752
	55											250SA	500.5	382	472									1270		154	1468
	75											250MA	520.5	400	545	1310	161	1506	948								
	90											280SA	552.5	439.5	660	1350	168	1577	1070								
125 x 80 CNJA	75	125	80	231	350	330	250	226	150	190	250	250MA	520.5	400	545	470	205	1330	900	215	590	520	4-M22	166	4	1506	961
	90											280SA	552.5	439.5	660									1370		170	1577
	110											280MA	577.5	464.5	770	1420	176	1627	1196								
	150 x 150 CNFA											55	150	150	262	370	330	290	205	180	170	253	250SA	500.5		382	472
75	250MA	520.5	400	545	1370	171	1557	969																			
90	280SA	552.5	439.5	660	1410	178	1628	1091																			
110	280MA	577.5	464.5	770	1460	182	1678	1205																			
150 x 125 CNGA	90	150	125	262	395	330	260	224	190	190	275	280SA	552.5	439.5	660	530	225	1440	950	245	650	580	4-M22	180	4	1653	1115
	110											280MA	577.5	464.5	770									1490		187	1703
	132											315SA	601	485	1010	1510	190	1747	1475								
	150											315MA	626	511	1150	1560	202	1798	1627								

Unit: mm, unless otherwise stated

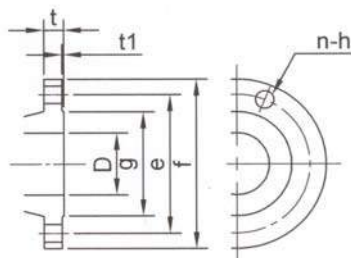
Dimensions - CSA Pump with Motor 2-Poles Drive
(Optional : Gland Packing Type)

50 Hz

Pump



Flange



Dimension - Flange

D	f	e	g	t1	t	n	h
mm	mm	mm	mm	mm	mm		mm
80	200	160	135	2	24	8	23
100	225	185	160	2	26	8	23

Dimension - Pump

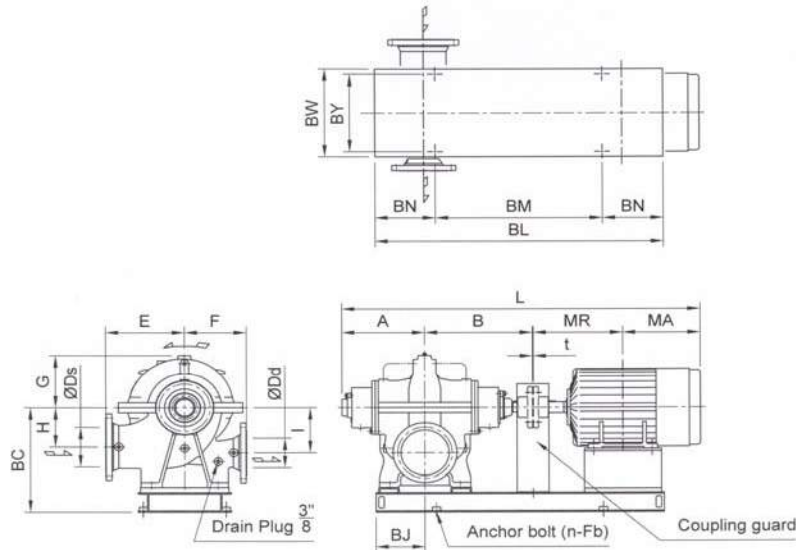
Model	Motor		Size		Pump								Motor				Common Base								Total							
	kW	Size	Ds	Dd	A	B	E	F	G	H	I	Y	wt kg	Frame	MR	MA	wt kg	BC	BJ	BL	BM	BN	BW	BY	n-Fb	wt kg	t	L	wt kg			
100 x 80 CSGA	15													160M	343	259	130															
	18.5	100	80		314	385	270	240	169	140	140	70	143	160L	368	284	146	445	185	1085	655		370	310	4-M20	102	3	1304	375			
	22													180MA	379.5	292.5	193															
	30													200LA	425.5	344.5	280															
100 x 80 CSHA	30	100	80		314	385	280	220	185	150	160	70	165	200LA	425.5	344.5	280	445	185	1225	795		470	410	4-M20	116	4	1473	445			
	37													200LA	425.5	344.5	301															
	45													225MA	446.5	364.5	362	470														

Unit: mm, unless otherwise stated

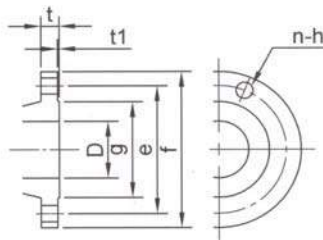
Dimensions - CNA Pump with Motor 2-Poles Drive
(Optional : Gland Packing Type)

50 Hz

Pump



Flange



Dimension - Flange

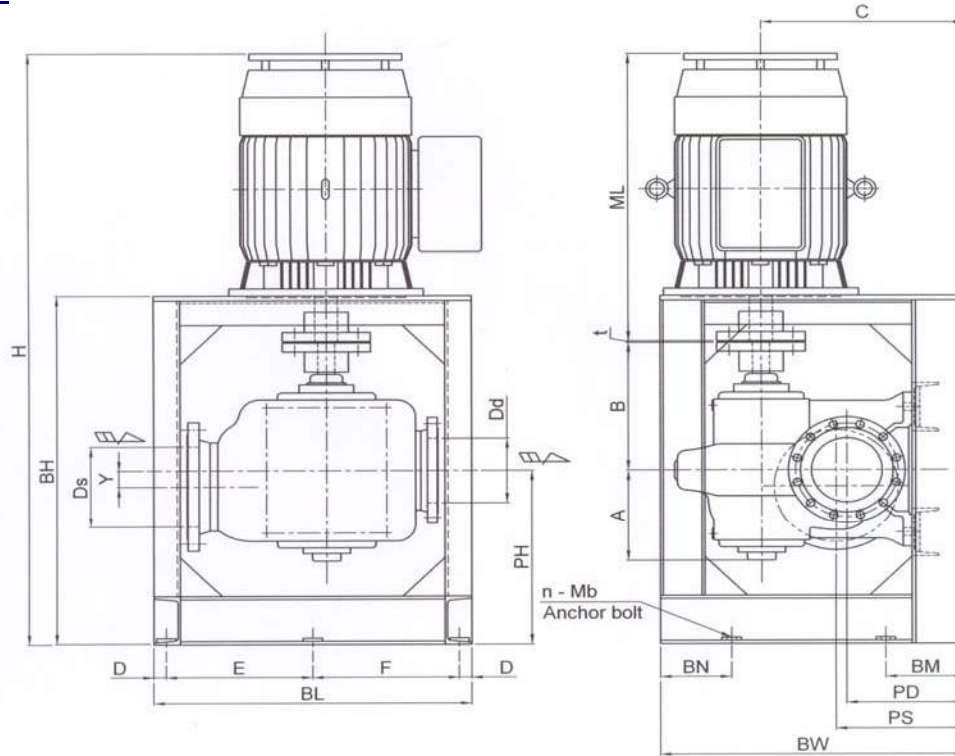
D	f	e	g	t1	t	n	h
mm	mm	mm	mm	mm	mm		mm
80	200	160	135	2	24	8	23
100	225	185	160	2	26	8	23
125	270	225	195	2	26	8	25
150	305	260	230	2	28	12	25

Dimension - Pump

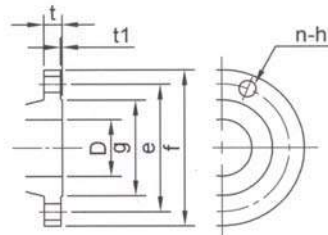
Model	Motor		Pump								Motor				Common Base								Total				
	kW	Size	Ds	Dd	A	B	E	F	G	H	I	wt kg	Frame	MR	MA	wt kg	BC	BJ	BL	BM	BN	BW	BY	n-Fb	wt kg	t	L
125 x 100 CNGA	30	125	100	326	450	290	250	181	150	150	209	200LA	425.5	344.5	280	445	185	1290	860	215	490	430	4-M20	135	4	1550	624
	200LA											425.5	344.5	301	135									1550		645	
	225MA											446.5	364.5	362	470	1310	880	540	470	4-M22	146	1591	717				
	250SA											500.5	382	472							150	1663	831				
125 x 100 CNHA	45	125	100	326	450	300	250	195	150	160	242	225MA	446.5	364.5	362	470	185	1310	880	215	540	470	4-M22	148	4	1591	752
	250SA											500.5	382	472	154									1663		868	
	250MA											520.5	400	545	470	1410	980	590	520	4-M22	161	1701	948				
	280SA											552.5	439.5	660							168	1772	1070				
125 x 80 CNJA	75	125	80	326	450	330	250	226	150	190	250	250MA	520.5	400	545	470	205	1430	940	245	590	520	4-M22	166	4	1701	961
	280SA											552.5	439.5	660	170									1772		1080	
	280MA											577.5	464.5	770	470	1520	585	175	650	580	4-M22	176	1822	1196			
	250SA											500.5	382	472								168	1717	893			
150 x 150 CNFA	55	150	150	355	475	330	290	205	180	170	253	250MA	520.5	400	545	530	225	1450	960	245	590	520	4-M22	171	4	1755	969
	280SA											552.5	439.5	660	178									1826		1091	
	280MA											577.5	464.5	770	530	1570	610	175	650	580	4-M22	182	1876	1205			
	280SA											552.5	439.5	660								180	1865	1115			
150 x 125 CNGA	90	150	125	364	505	330	260	224	190	190	275	280MA	577.5	464.5	770	530	225	1600	625	175	650	580	4-M22	187	4	1915	1232
	315SA											601	485	1010	190									1959		1475	
	315MA											626	511	1150	530	1670	660	705	635	6-M22	202	2010	1627				
	280SA											552.5	439.5	660							180	1865	1115				

Unit: mm, unless otherwise stated

Pump



Flange



Dimension - Flange

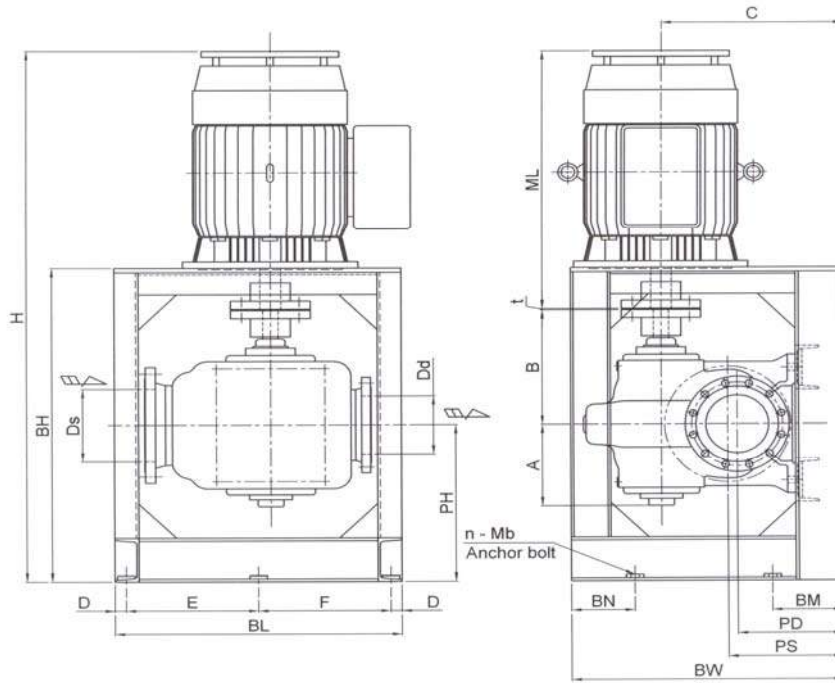
D mm	f mm	e mm	g mm	t1 mm	t mm	n	h mm
80	200	160	135	2	24	8	23
100	225	185	160	2	26	8	23
125	270	225	195	2	26	8	25

Dimension - Pump

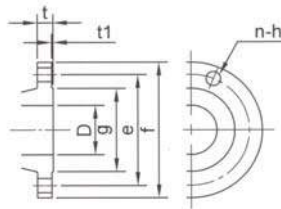
Model	Motor		Pump							Motor			Common Base							Total																		
	kw	Size	Ds	Dd	A	B	E	F	Y	wt kg	Frame	ML	wt kg	BC	BL	BW	BH	BM	BN	n-Mb	wt kg	t	C	D	H	PD	PH	PS	wt kg									
100 x 80 CSGA	2.2		100	80	221	250	270	240	70	143	100LD	363	35																									
	3.7										112MD	422	48																									
100 x 80 CSHA	3.7		100	80	221	250	280	220	70	165	112MD	422	48																									
	5.5										132SD	446	70																									
100 x 80 CSJA	7.5		100	80	221	250	280	230	70	200	132MD	484	80																									
	5.5										132SD	446	70																									
125 x 100 CSJA	7.5		125	100	247	325	350	280	80	280	160MD	604	128																									
	11										160LD	648	166																									
125 x 100 CSJA	15		125	100	247	325	350	280	80	280	180MCD	667	173																									
	18.5										180LCD	705	213																									
	22										200LCD	768	290																									
	30																																					

Unit: mm, unless otherwise stated

Pump



Flange



Dimension - Flange

D	f	e	g	t1	t	n	h
mm	mm	mm	mm	mm	mm		mm
80	200	160	135	2	24	8	23
100	225	185	160	2	26	8	23
125	270	225	195	2	26	8	25
150	305	260	230	2	28	12	25

Dimension - Pump

Model	Motor		Pump					Motor			Common Base							Total														
	kW	Size	Ds	Dd	A	B	E	F	wt kg	Frame	ML	wt kg	BC	BL	BW	BH	BM	BN	n-Mb	wt kg	t	C	D	H	PD	PH	PS	wt kg				
125 x 100 CNGA	3.7									200LA	770	280																				
	5.5	125	100	231	350	290	250	209		200LA	770	301																				
	7.5									225MA	811	362																				
125 x 100 CNHA	7.5	125	100	231	350	300	250	242		250SA	882.5	472																				
	11									225MA	811	362																				
125 x 80 CNJA	11									250SA	882.5	472																				
	15	125	80	231	350	330	250	250		250MA	920.5	545																				
	18.5									280SA	992	660																				
150 x 150 CNFA	7.5	150	150	262	370	330	290	253		250MA	920.5	545																				
	11									280SA	992	660																				
150 x 125 CNGA	11									280MA	1042	770																				
	15	150	125	262	395	330	260	275		250SA	882.5	472																				
	18.5									250MA	920.5	545																				
150 x 125 CNHA	18.5									280SA	992	660																				
	22	150	125	262	370	350	280	270		280MA	1042	770																				
	30									280SA	992	660																				
150 x 100 CNJA	30									280MA	1042	770																				
	37	150	100	271	395	380	290	330		315SA	1086	###																				
	45									315MA	1137	###																				

Unit: mm, unless otherwise stated

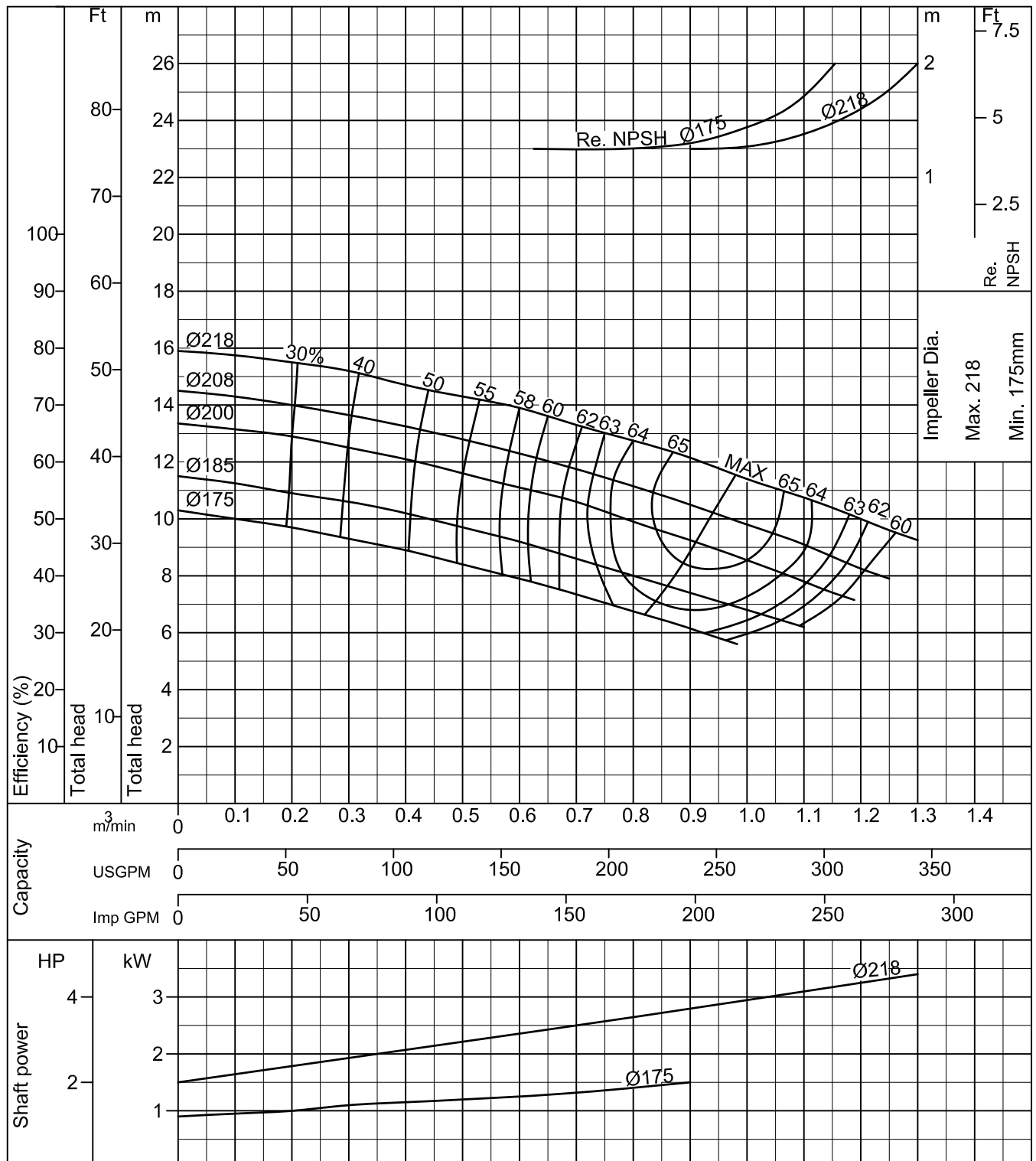
Ebara Horizontal Split Casing Pump

Model CSA/CNA

Performance Curve

50Hz

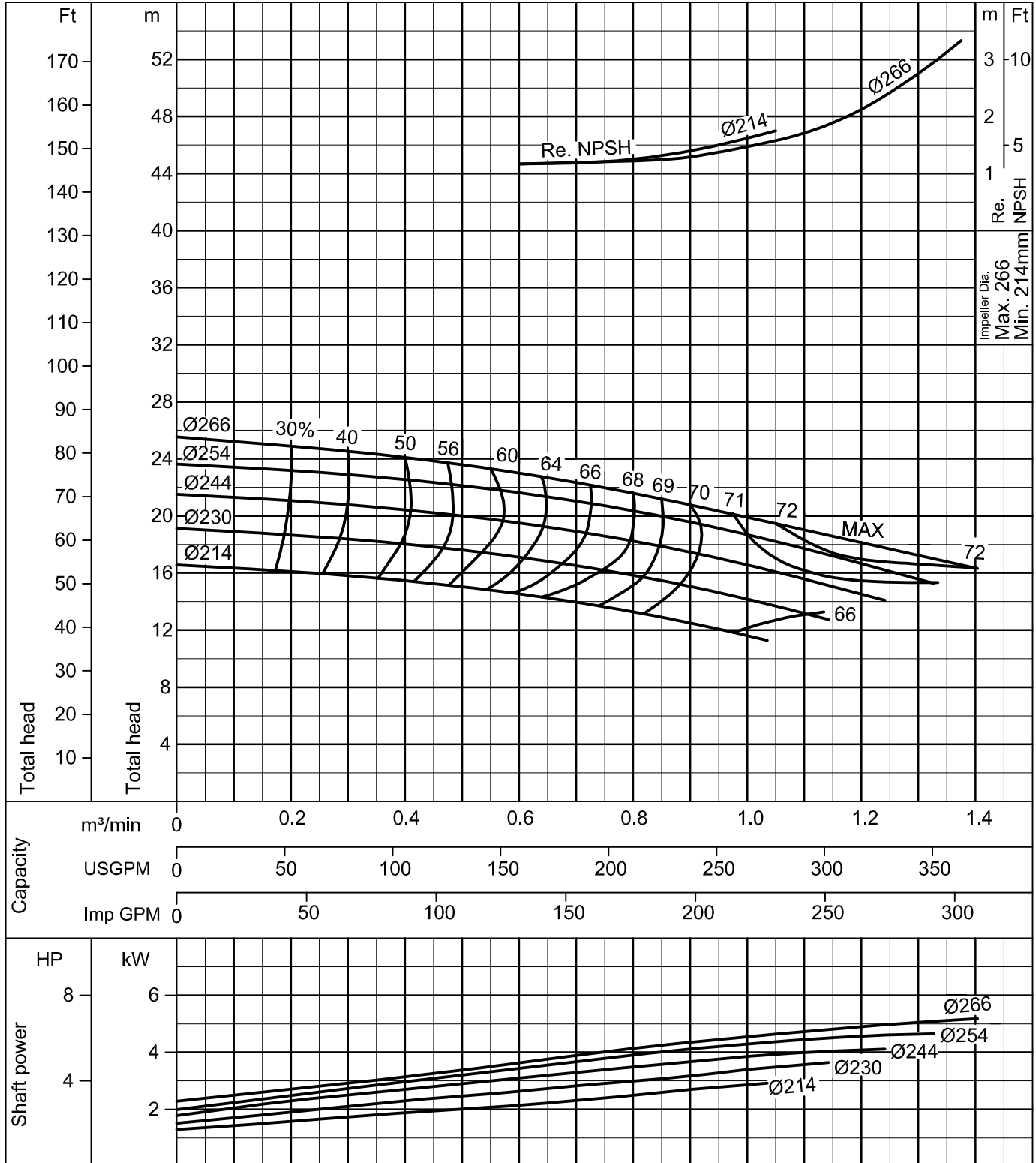
100 x 80 CSGA	According to JIS testing code B8301, B8302
50Hz (Approx. speed 1450min ⁻¹)	S.G.= 1.0 Vis.= 1.0 cSt



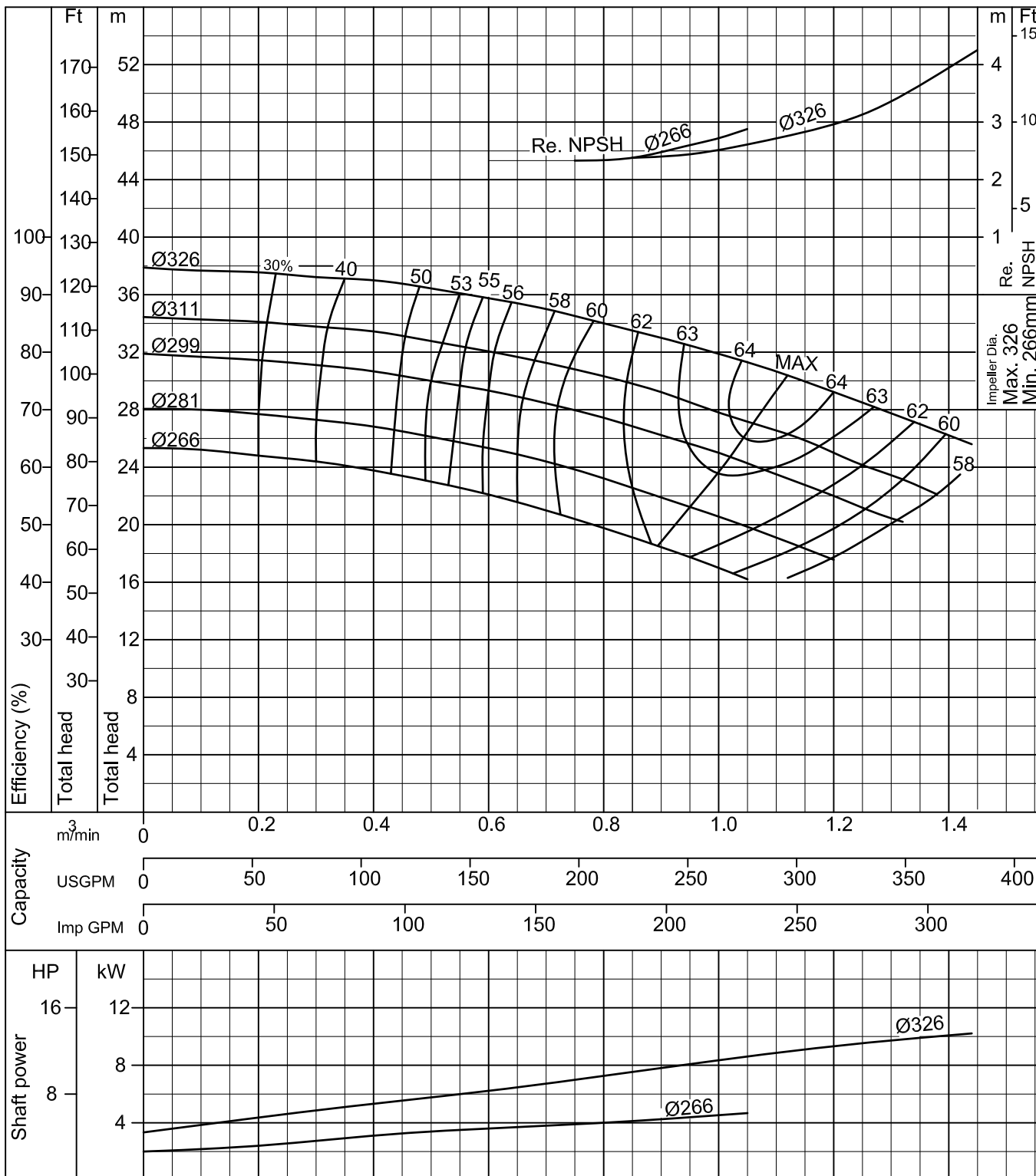
Performance Curve

50Hz

100 x 80 CSHA	According to JIS testing code B8301, B8302
50Hz (Approx. speed 1450min ⁻¹)	S.G.= 1.0 Vis.= 1.0 cSt



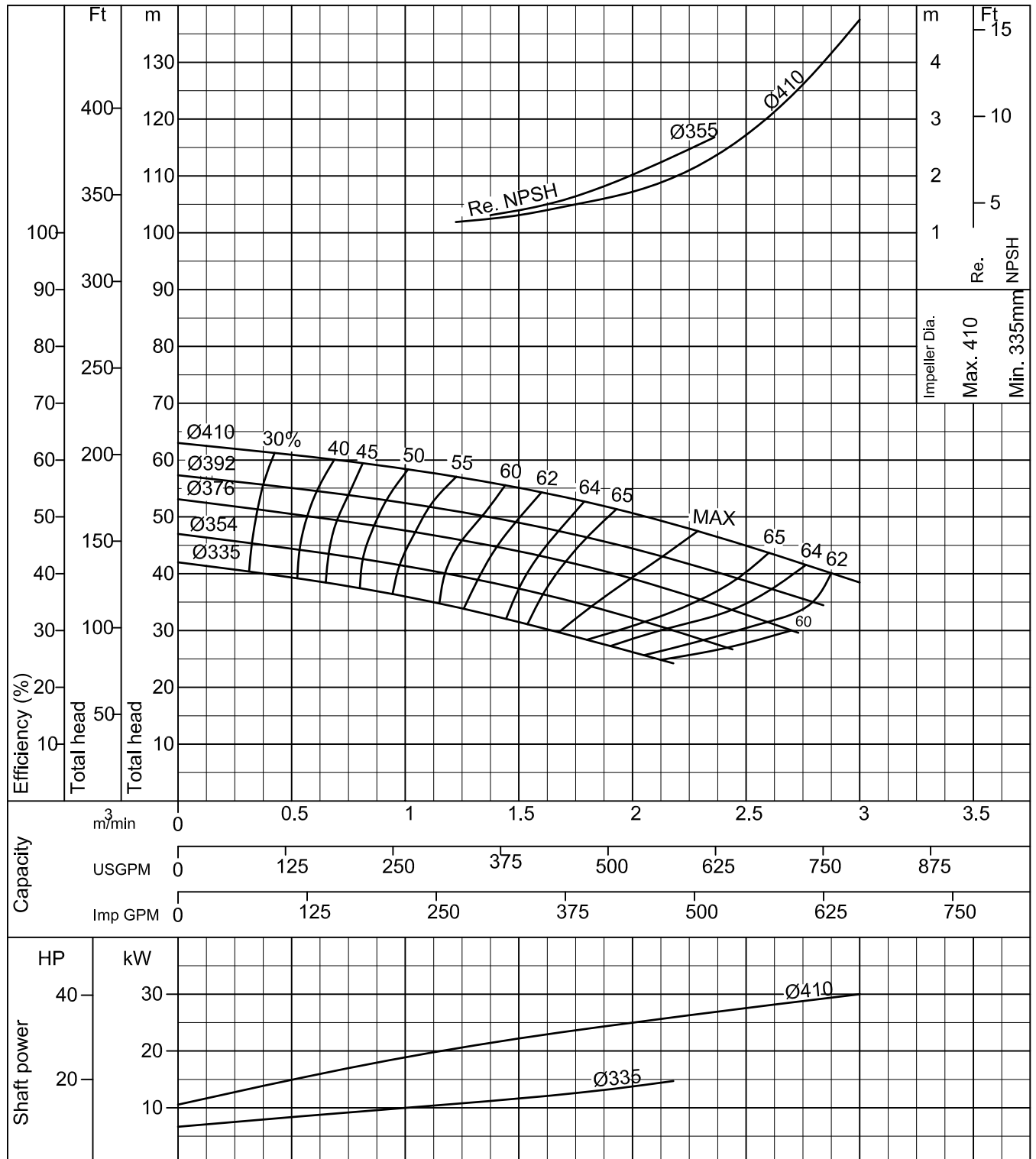
100 x 80 CSJA	According to JIS testing code B8301, B8302
50Hz (Approx. speed 1450min ⁻¹)	S.G.= 1.0 Vis.= 1.0 cSt



Performance Curve

50Hz

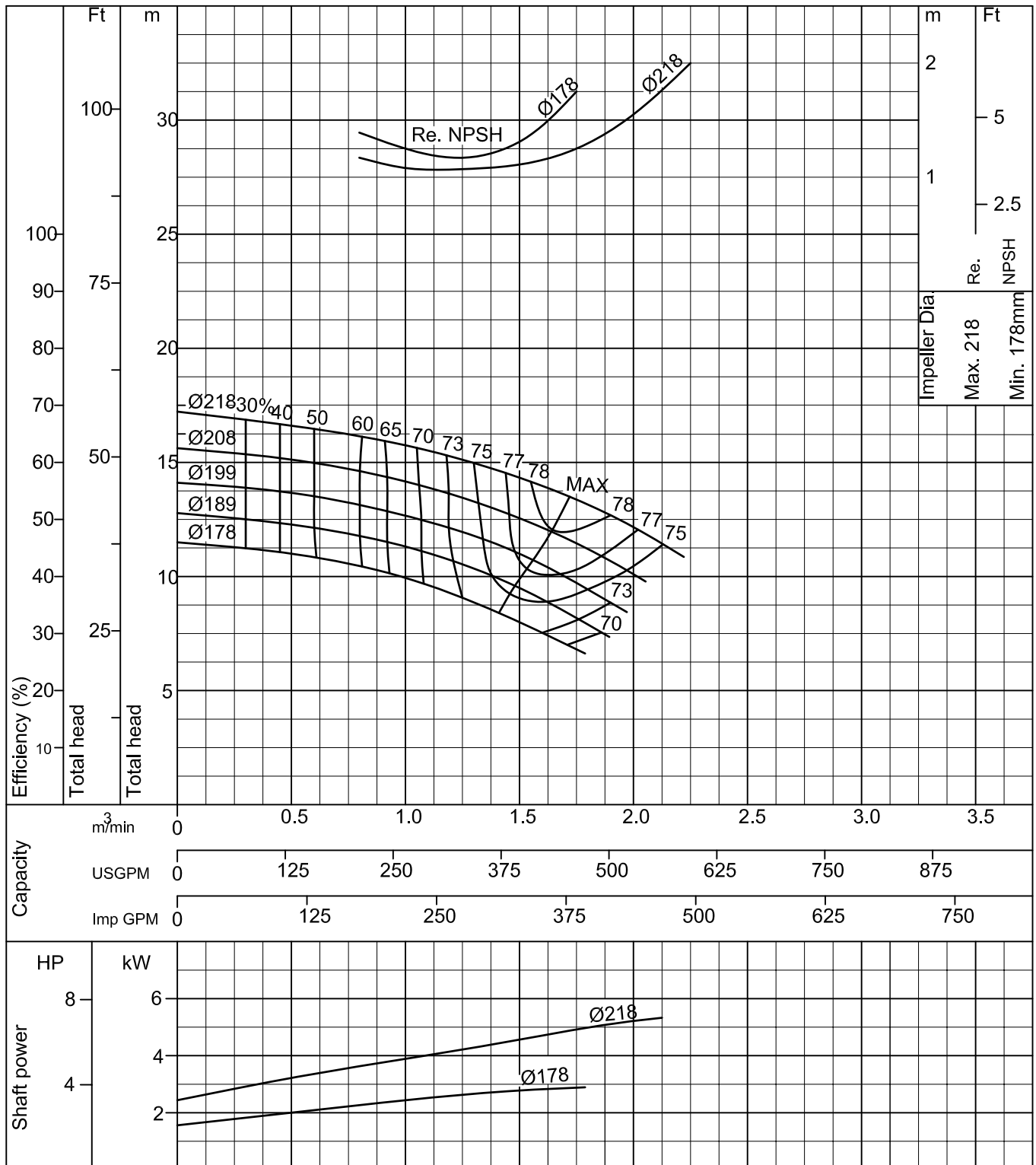
125 x 100 CSJA	According to JIS testing code B8301, B8302
50Hz (Approx. speed 1450min ⁻¹)	S.G.= 1.0 Vis.= 1.0 cSt



Performance Curve

50Hz

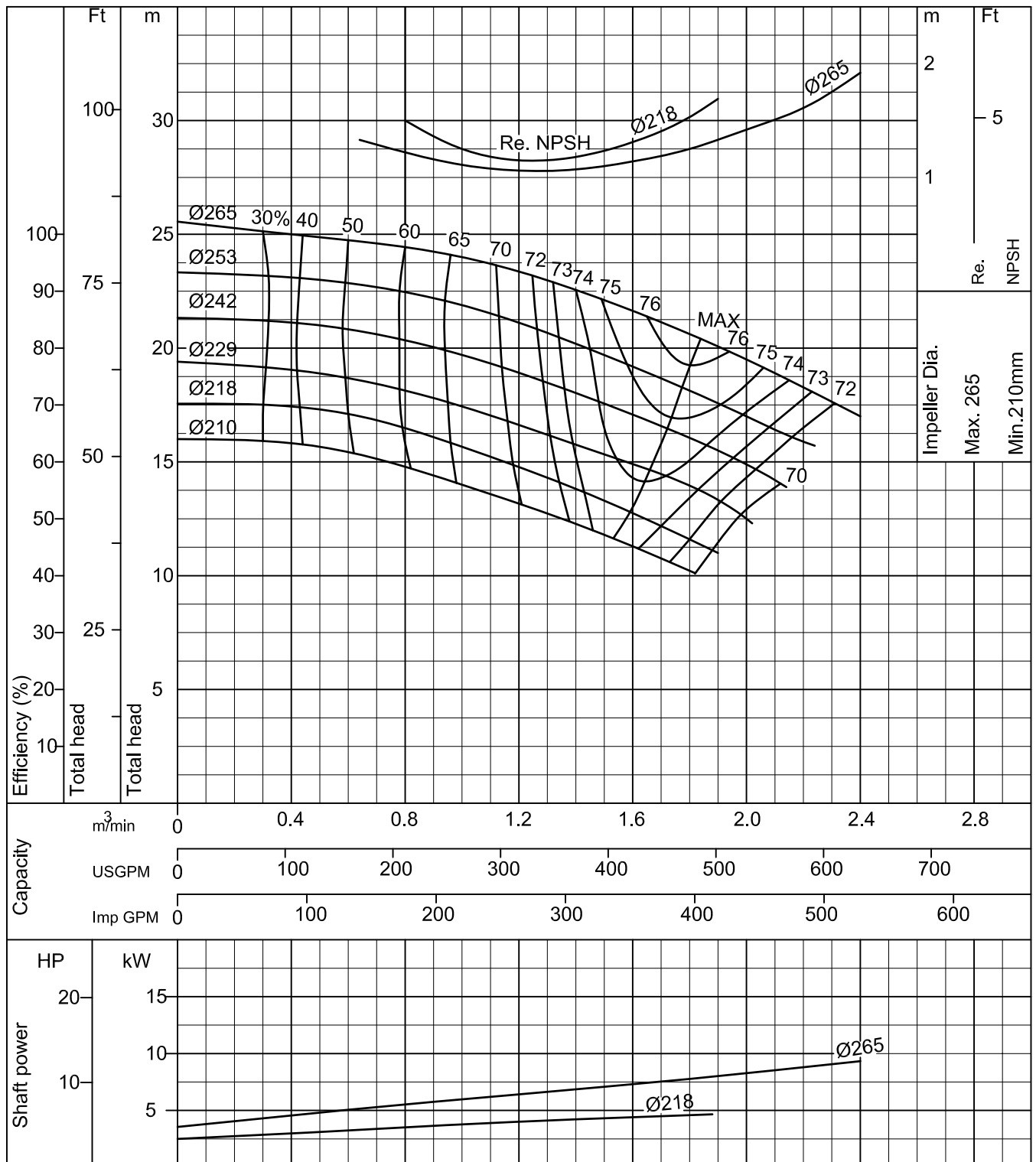
125 x 100 CNGA	According to JIS testing code B8301, B8302
50Hz (Approx. speed 1450min ⁻¹)	S.G.= 1.0 Vis.= 1.0 cSt



Performance Curve

50Hz

125 x 100 CNHA	According to JIS testing code B8301, B8302
50Hz (Approx speed 1450min ⁻¹)	S.G.= 1.0 Vis.= 1.0 cSt



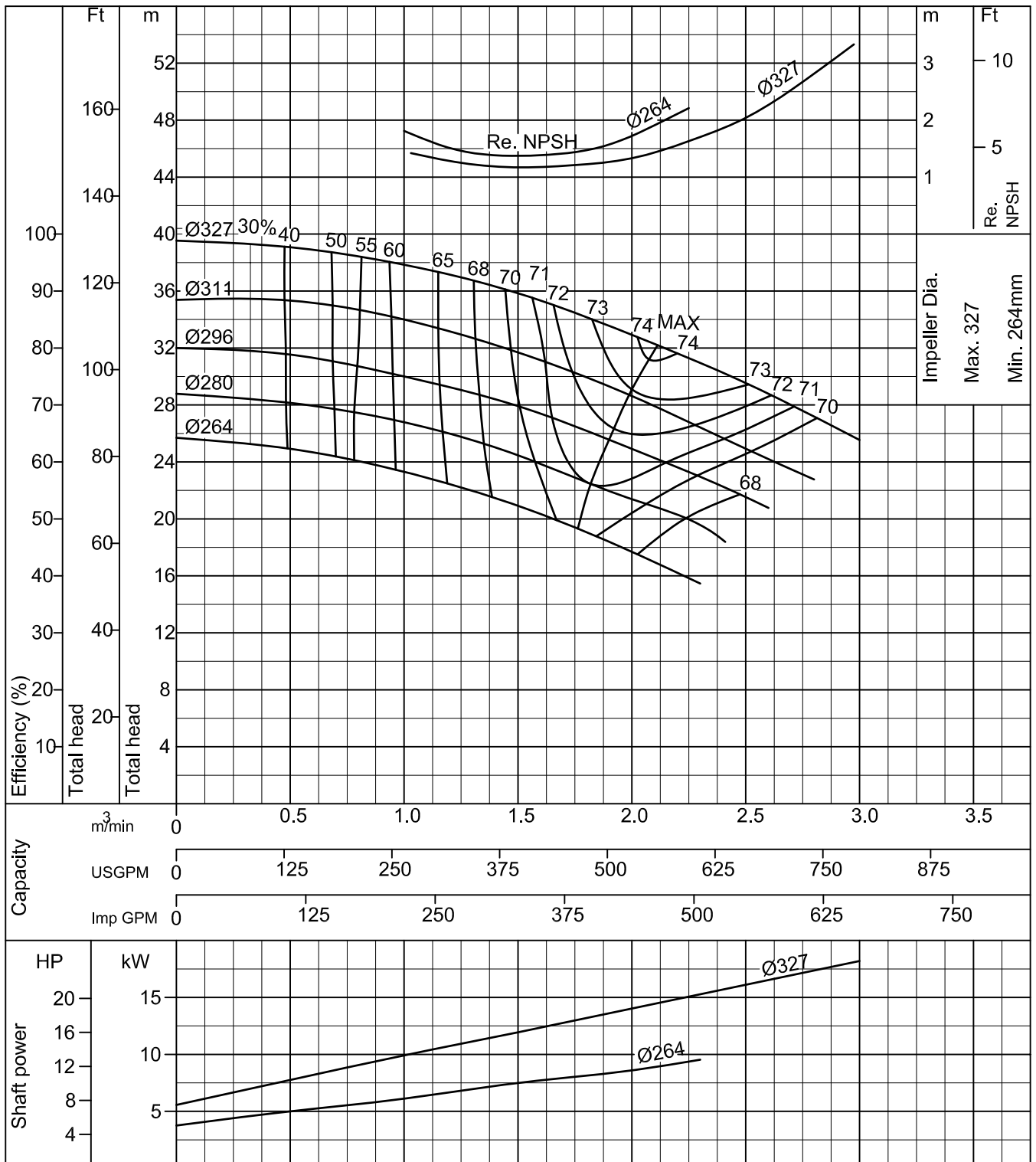
Ebara Horizontal Split Casing Pump

Model CSA/CNA

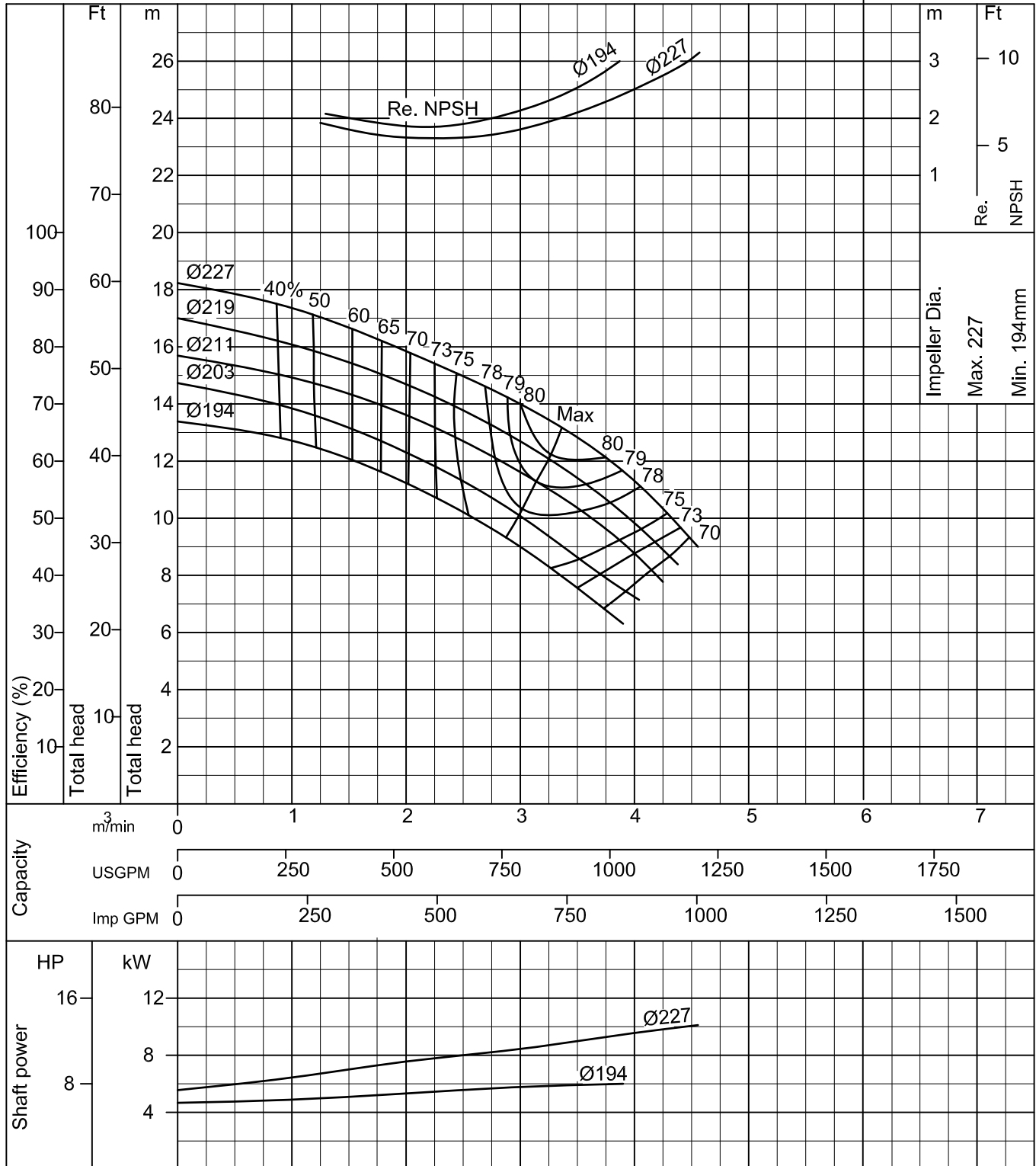
Performance Curve

50Hz

125 x 80 CNJA	According to JIS testing code B8301, B8302
50Hz (Approx. speed 1450min ⁻¹)	S.G.= 1.0 Vis.= 1.0 cSt



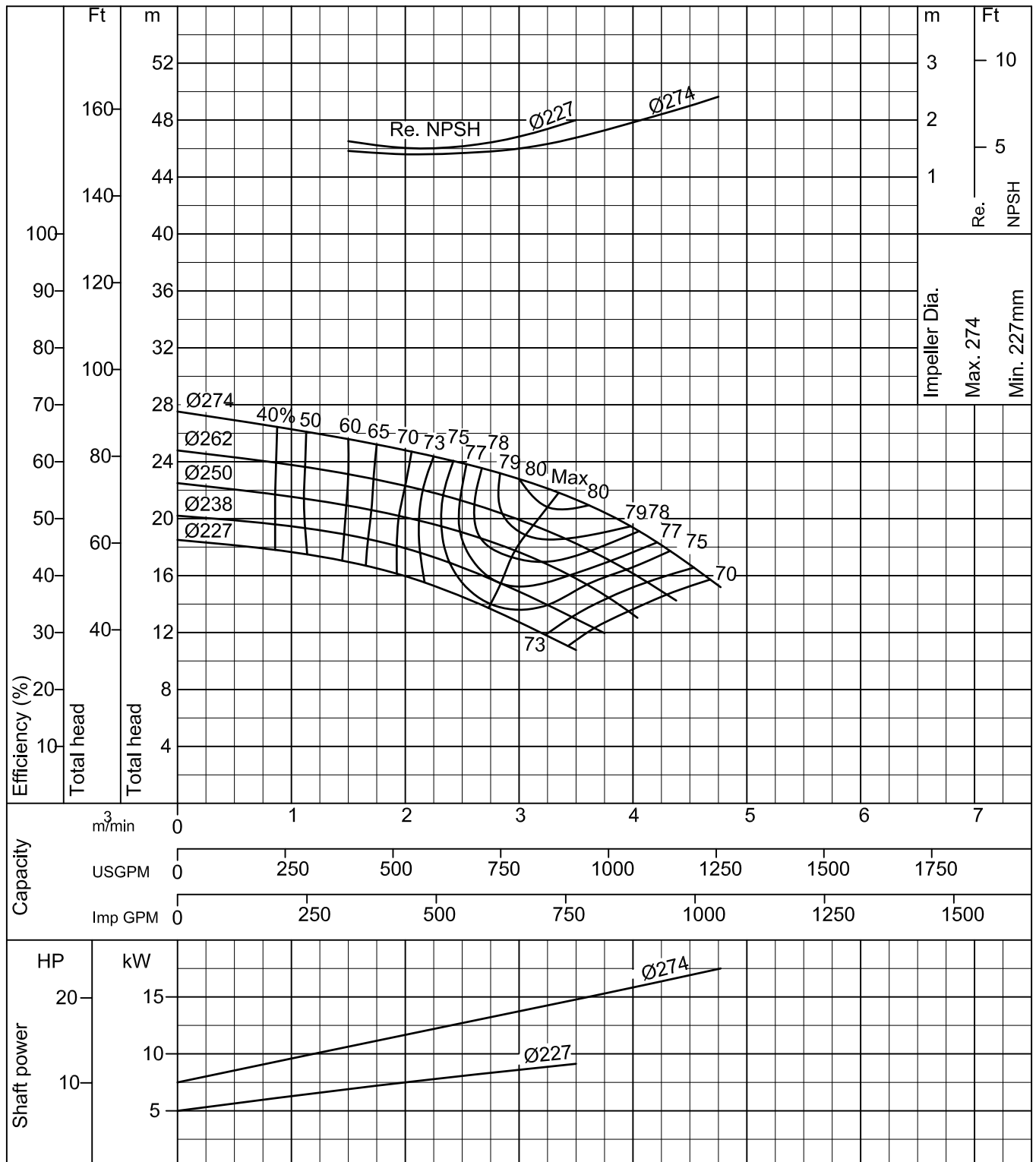
150 x 150 CNFA	According to JIS testing code B8301, B8302
50Hz (Approx. speed 1450min ⁻¹)	S.G.= 1.0 Vis.= 1.0 cSt



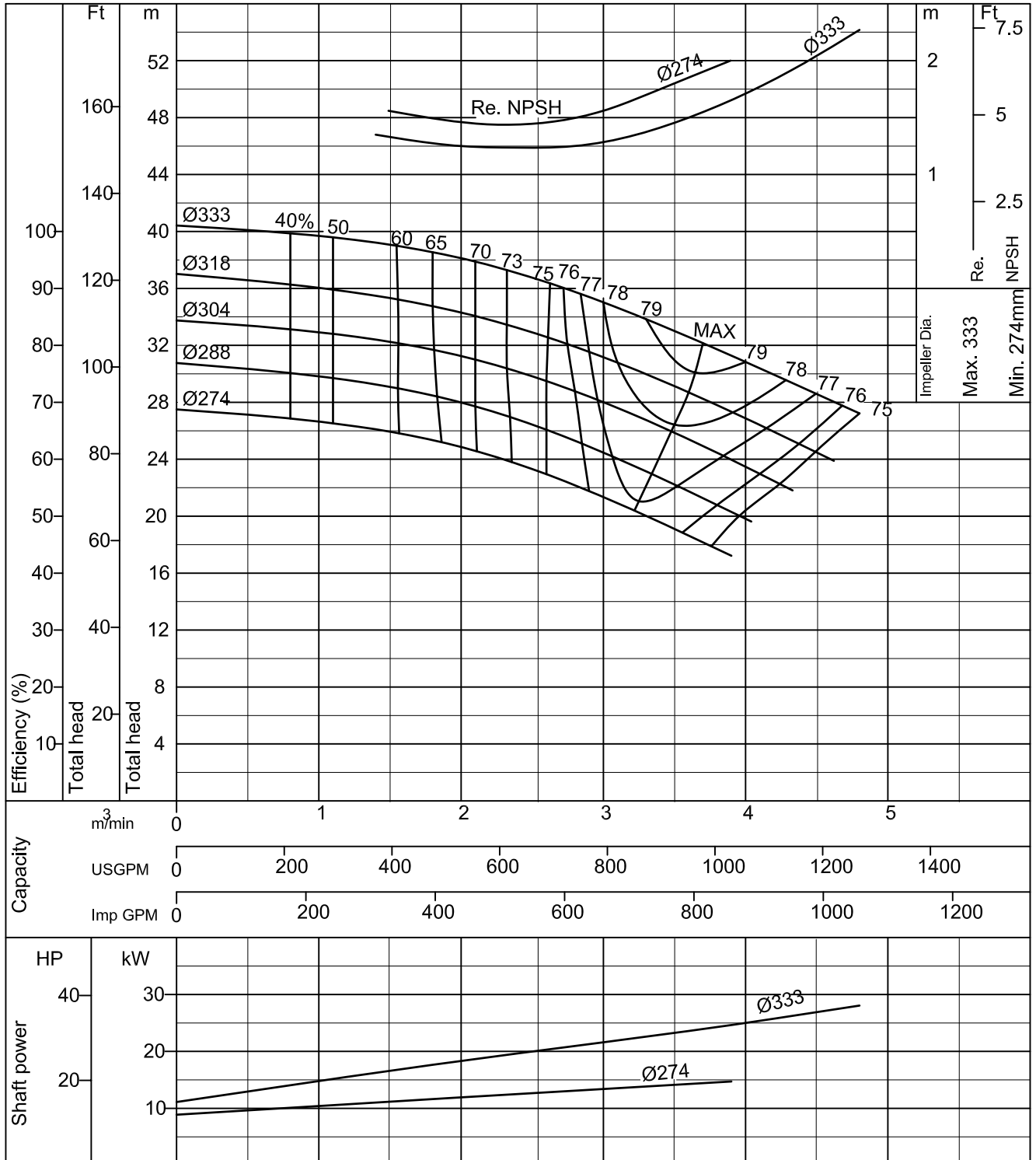
Performance Curve

50Hz

150 x 125 CNGA	According to JIS testing code B8301, B8302
50Hz (Approx. speed 1450min ⁻¹)	S.G.= 1.0 Vis.= 1.0 cSt



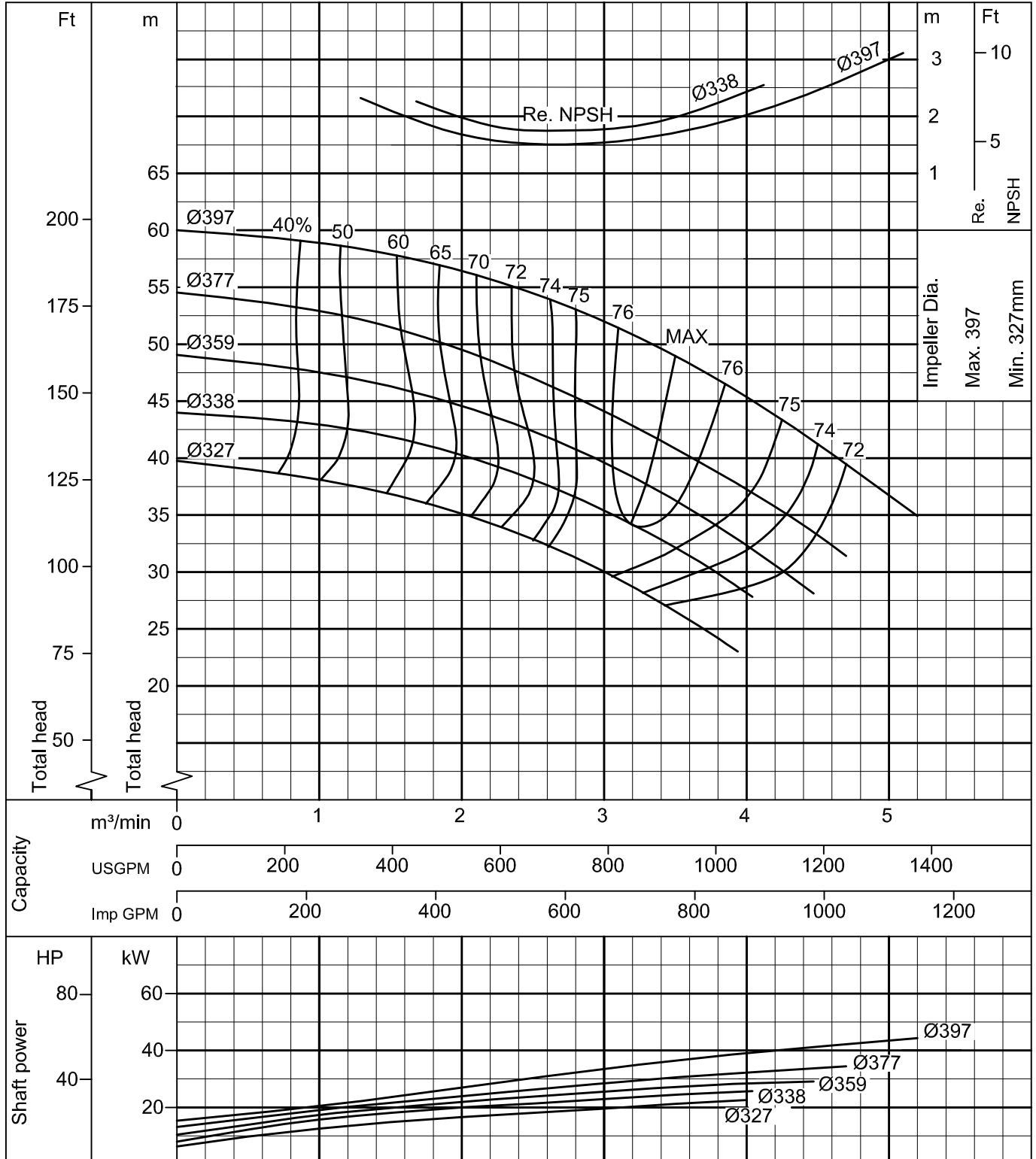
150 x 125 CNHA	According to JIS testing code B8301, B8302
50Hz (Approx. speed 1450min ⁻¹) S.G.= 1.0 Vis.= 1.0 cSt	



Performance Curve

50Hz

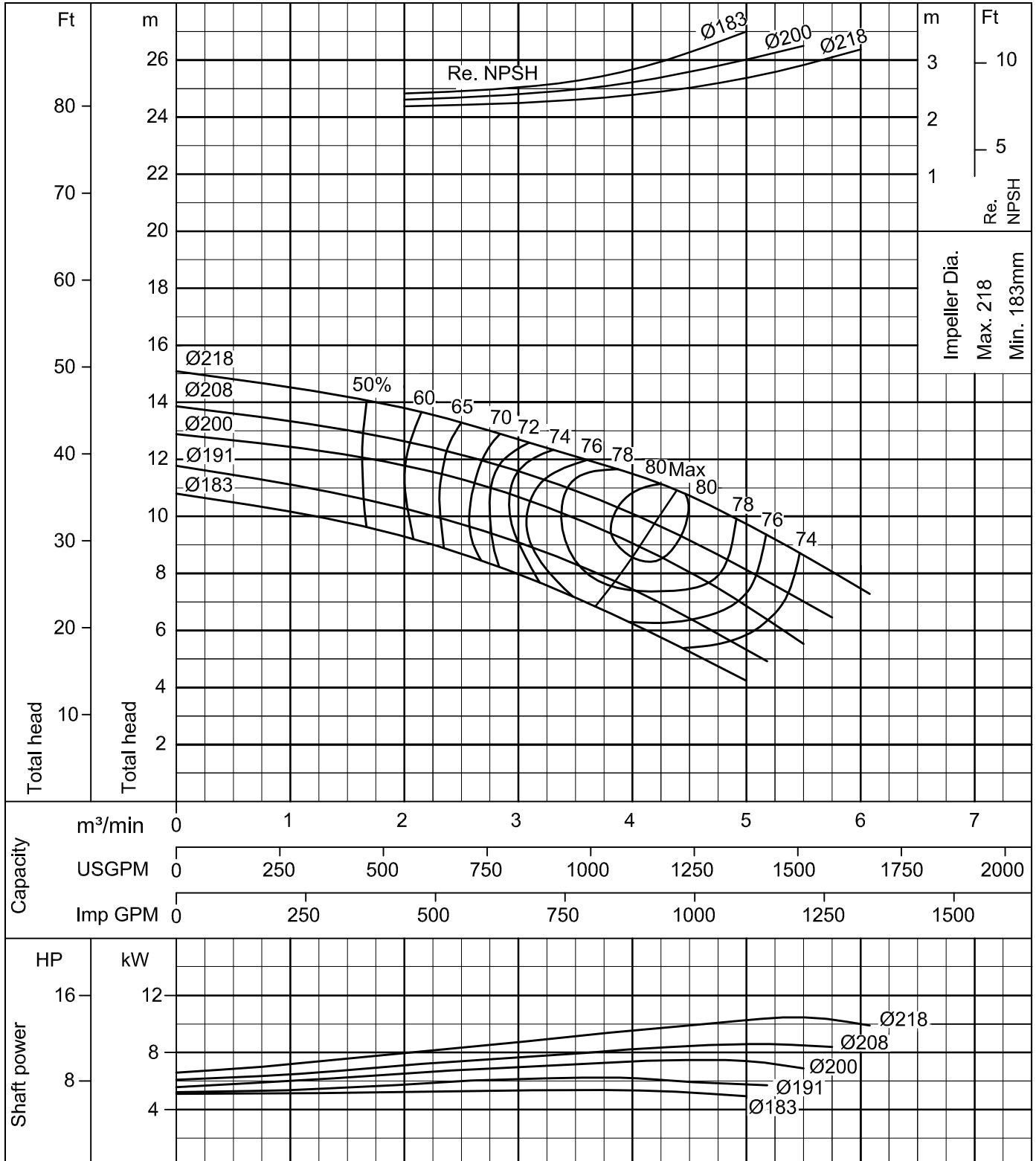
150 x 100 CNJA	According to JIS testing code B8301, B8302
50Hz (Approx. speed 1450min ⁻¹)	S.G.= 1.0 Vis.= 1.0 cSt



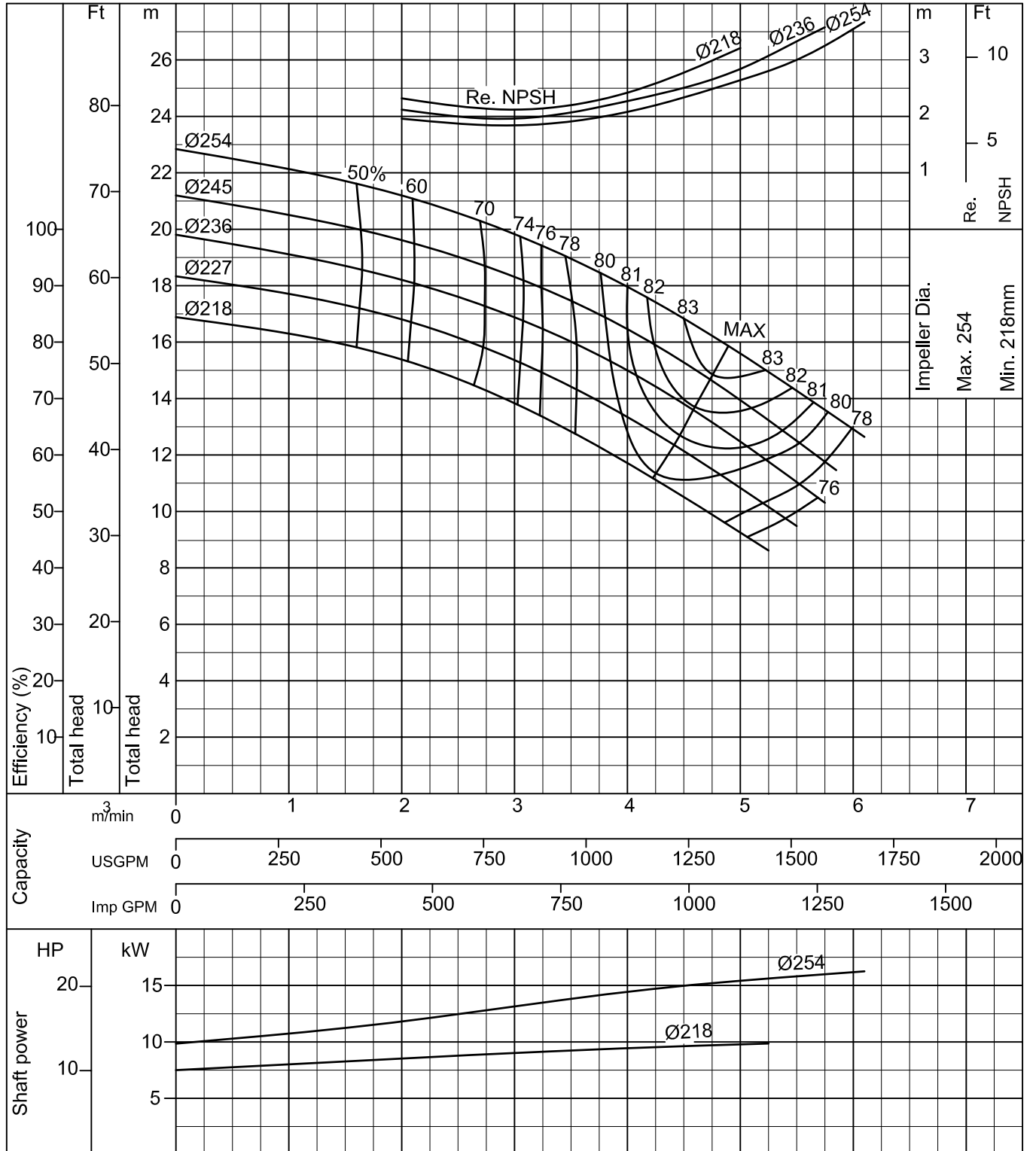
Performance Curve

50Hz

200 x 200 CNEA	According to JIS testing code B8301, B8302
50Hz (Approx. speed 1450min ⁻¹)	S.G.= 1.0 Vis.= 1.0 cSt



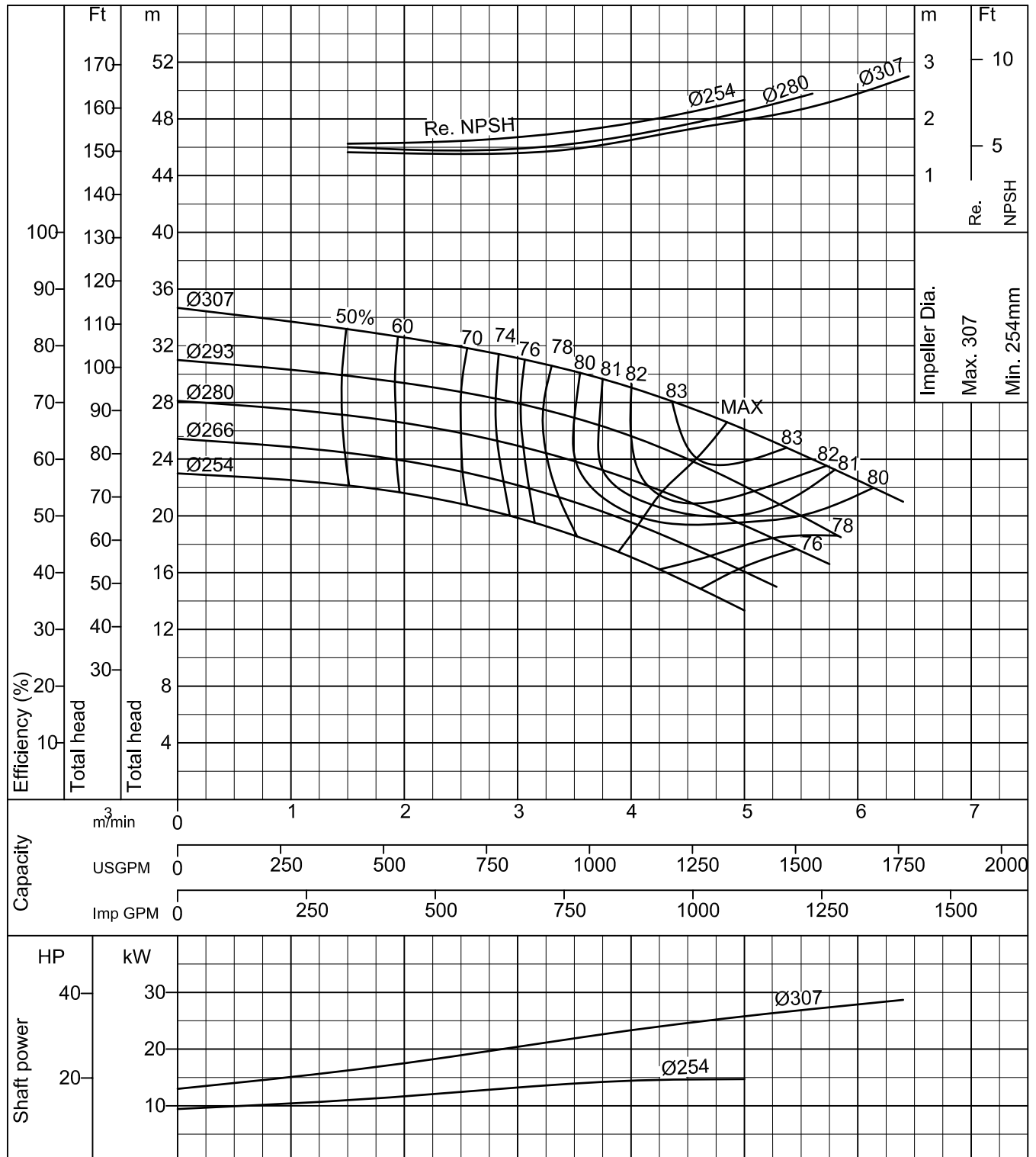
200 x 150 CNFA	According to JIS testing code B8301, B8302
50Hz (Approx. speed 1450min ⁻¹)	S.G.= 1.0 Vis.= 1.0 cSt



Performance Curve

50Hz

200 x 150 CNGA	According to JIS testing code B8301, B8302
50Hz (Approx. speed 1450min ⁻¹)	S.G.= 1.0 Vis.= 1.0 cSt



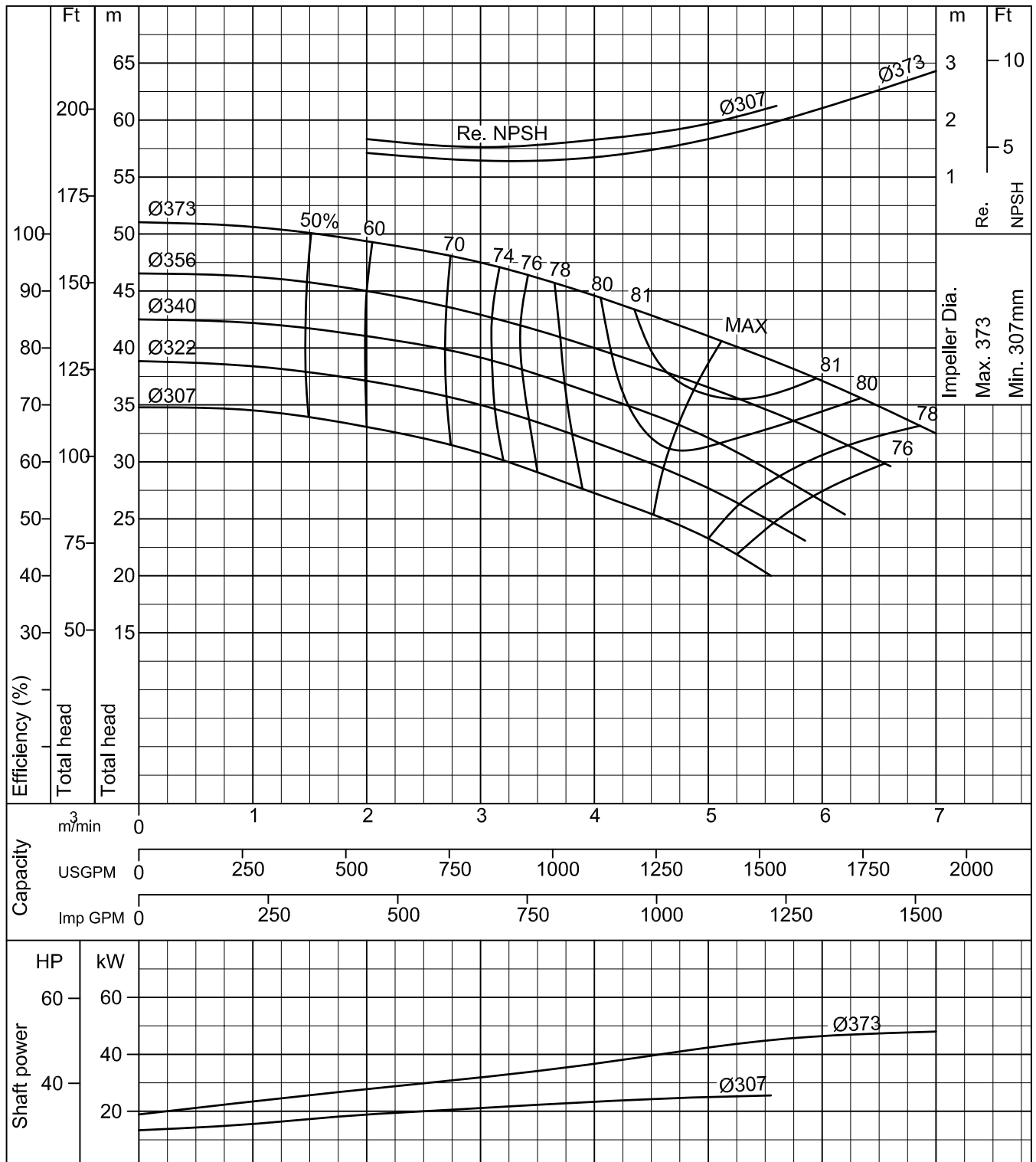
Ebara Horizontal Split Casing Pump

Model CSA/CNA

Performance Curve

50Hz

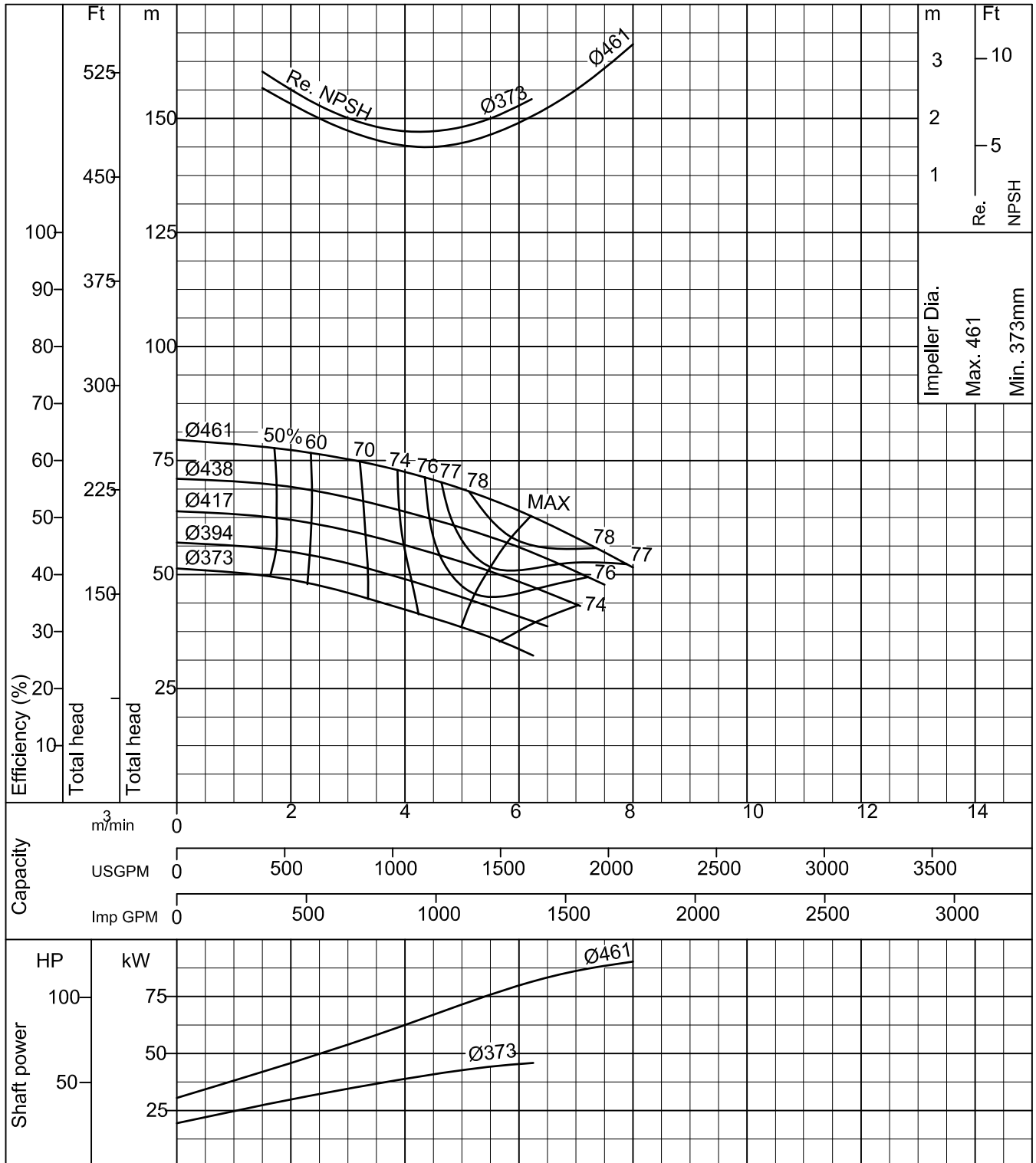
200 x 150 CNHA	According to JIS testing code B8301, B8302
50Hz (Approx. speed 1450min ⁻¹)	S.G.= 1.0 Vis.= 1.0 cSt



Performance Curve

50Hz

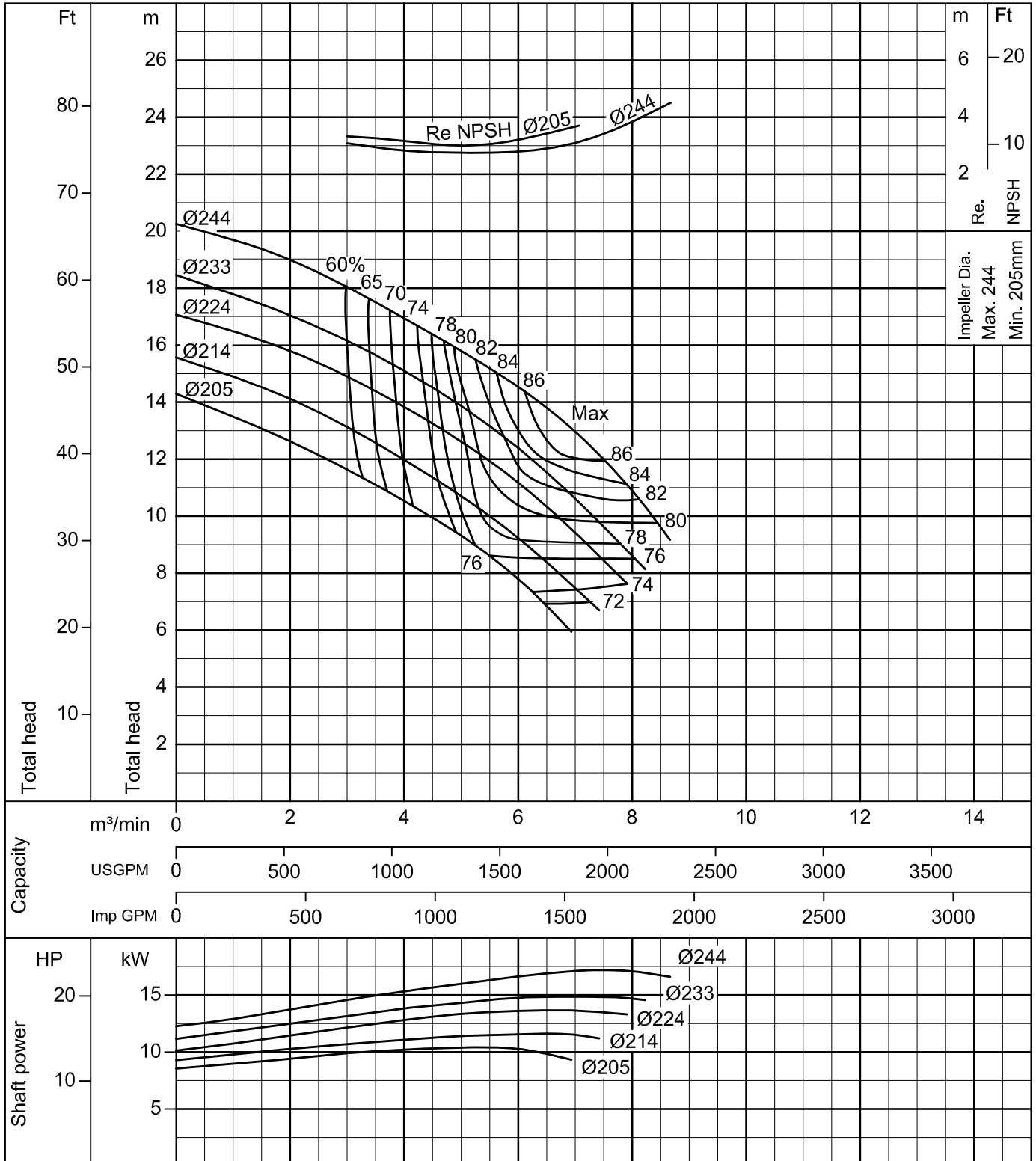
200 x 100 CNJA	According to JIS testing code B8301, B8302
50Hz (Approx. speed 1450min ⁻¹)	S.G.= 1.0 Vis.= 1.0 cSt



Performance Curve

50Hz

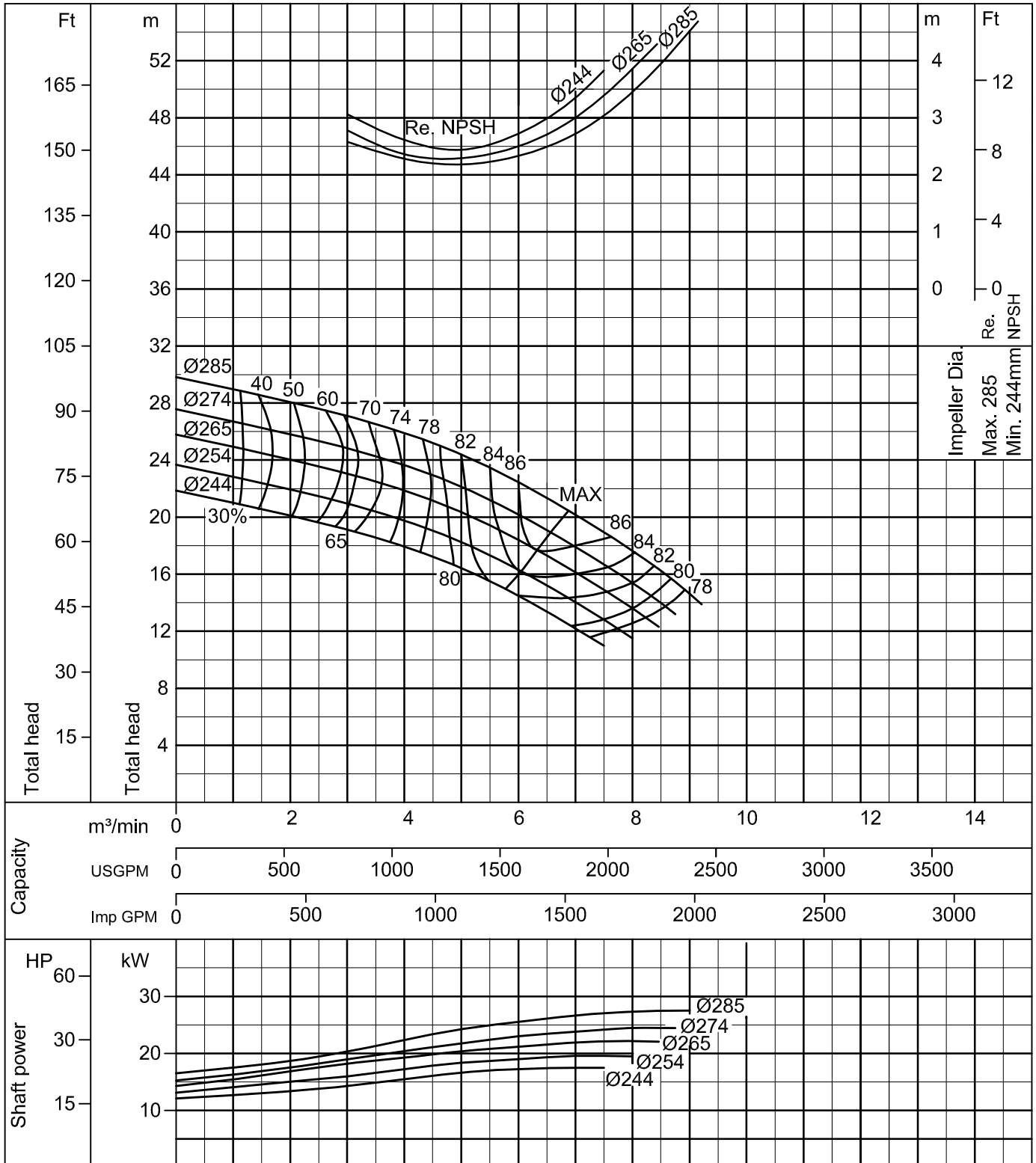
250 x 200 CNEA	According to JIS testing code B8301, B8302
50Hz (Approx. speed 1450min ⁻¹)	S.G.= 1.0 Vis.= 1.0 cSt



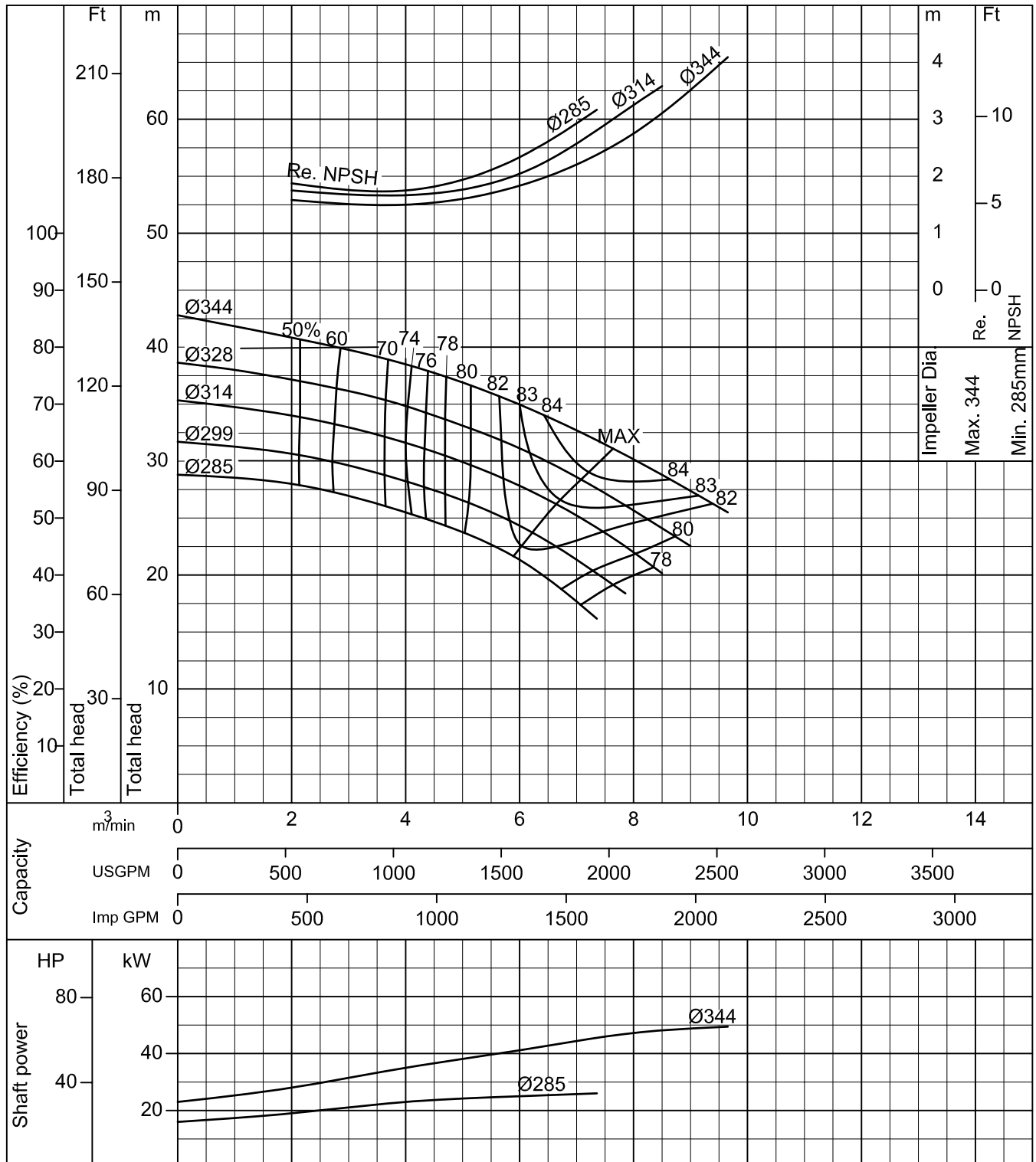
Performance Curve

50Hz

250 x 200 CNFA	According to JIS testing code B8301, B8302
50Hz (Approx. speed 1450min ⁻¹)	S.G.= 1.0 Vis.= 1.0 cSt



250 x 150 CNGA	According to JIS testing code B8301, B8302
50Hz (Approx. speed 1450min ⁻¹)	S.G.= 1.0 Vis.= 1.0 cSt



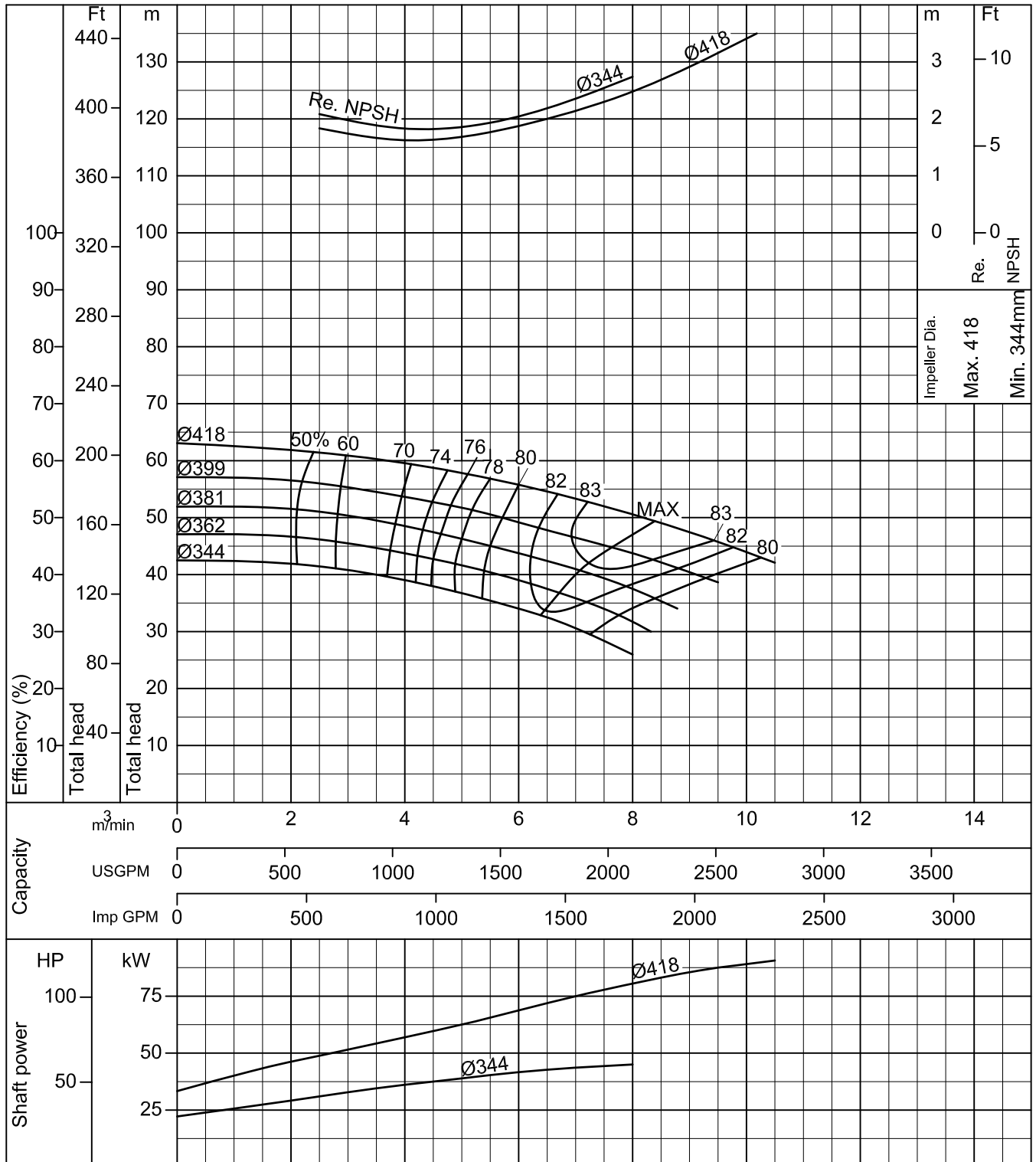
Ebara Horizontal Split Casing Pump

Model CSA/CNA

Performance Curve

50Hz

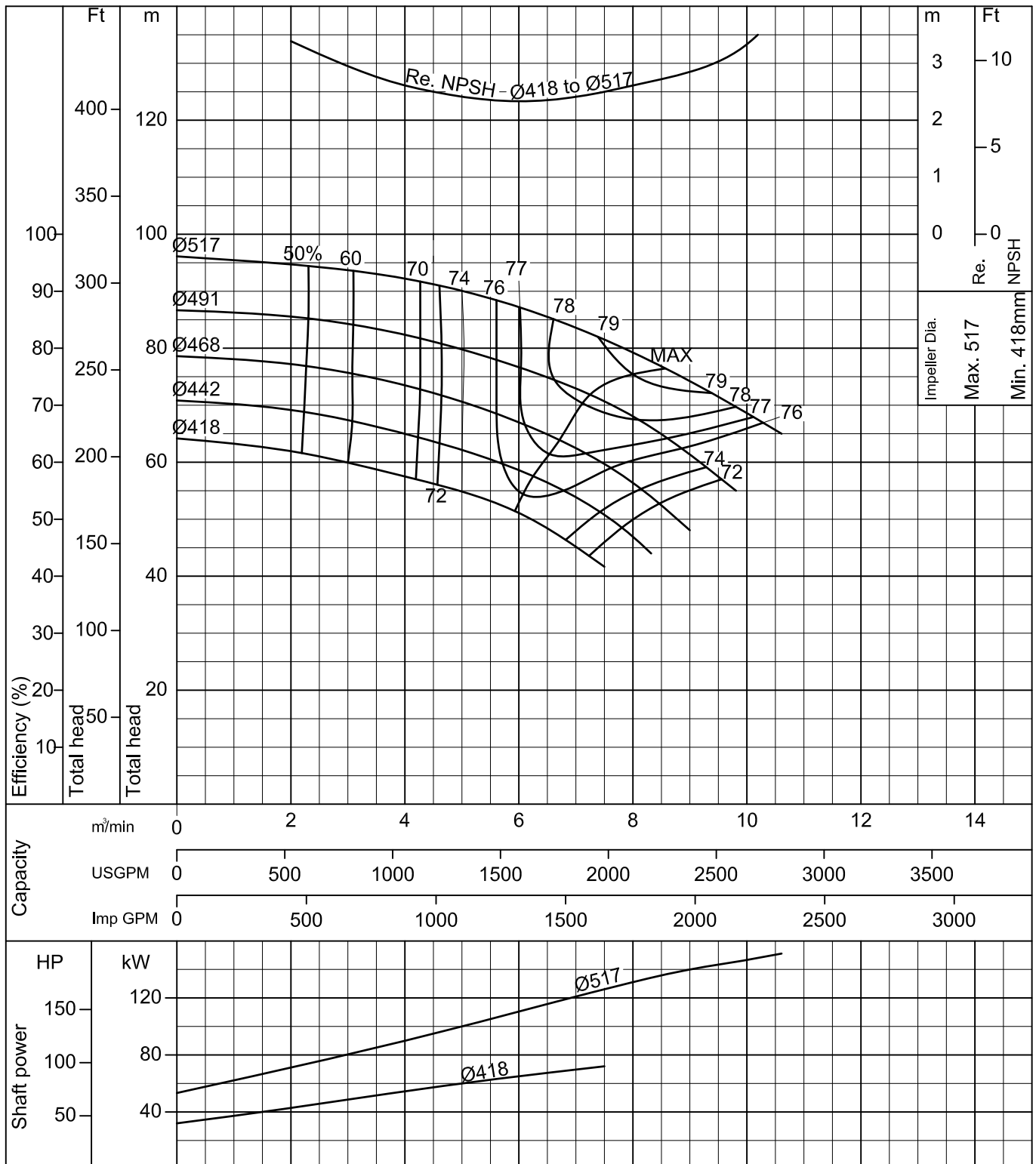
250 x 150 CNHA	According to JIS testing code B8301, B8302
50Hz (Approx. speed 1450min ⁻¹)	S.G.= 1.0 Vis.= 1.0 cSt



Performance Curve

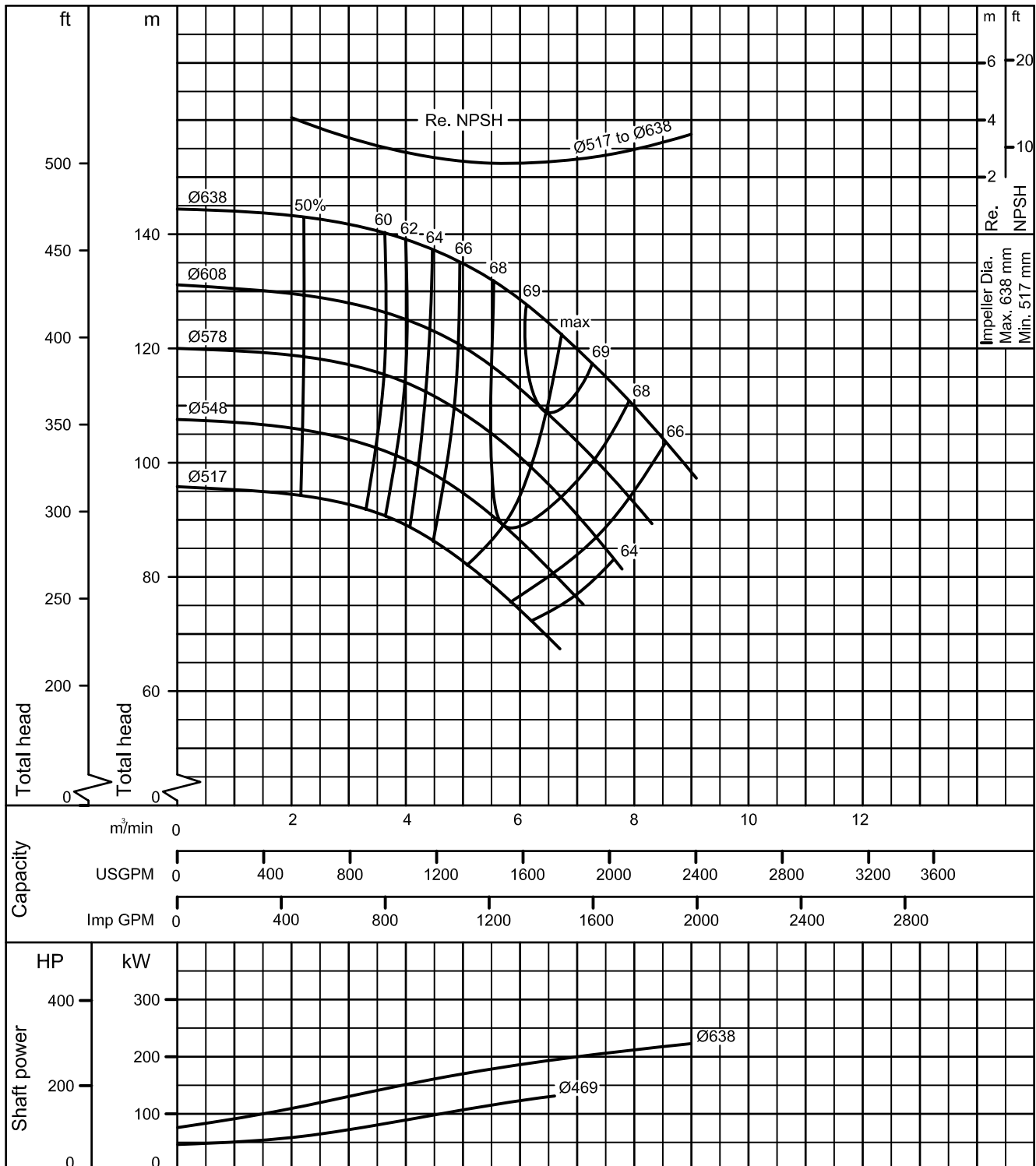
50Hz

250 x 150 CNJA	According to JIS testing code B8301, B8302
50Hz (Approx. speed 1450min ⁻¹)	S.G.= 1.0 Vis.= 1.0 cSt



Performance Curve

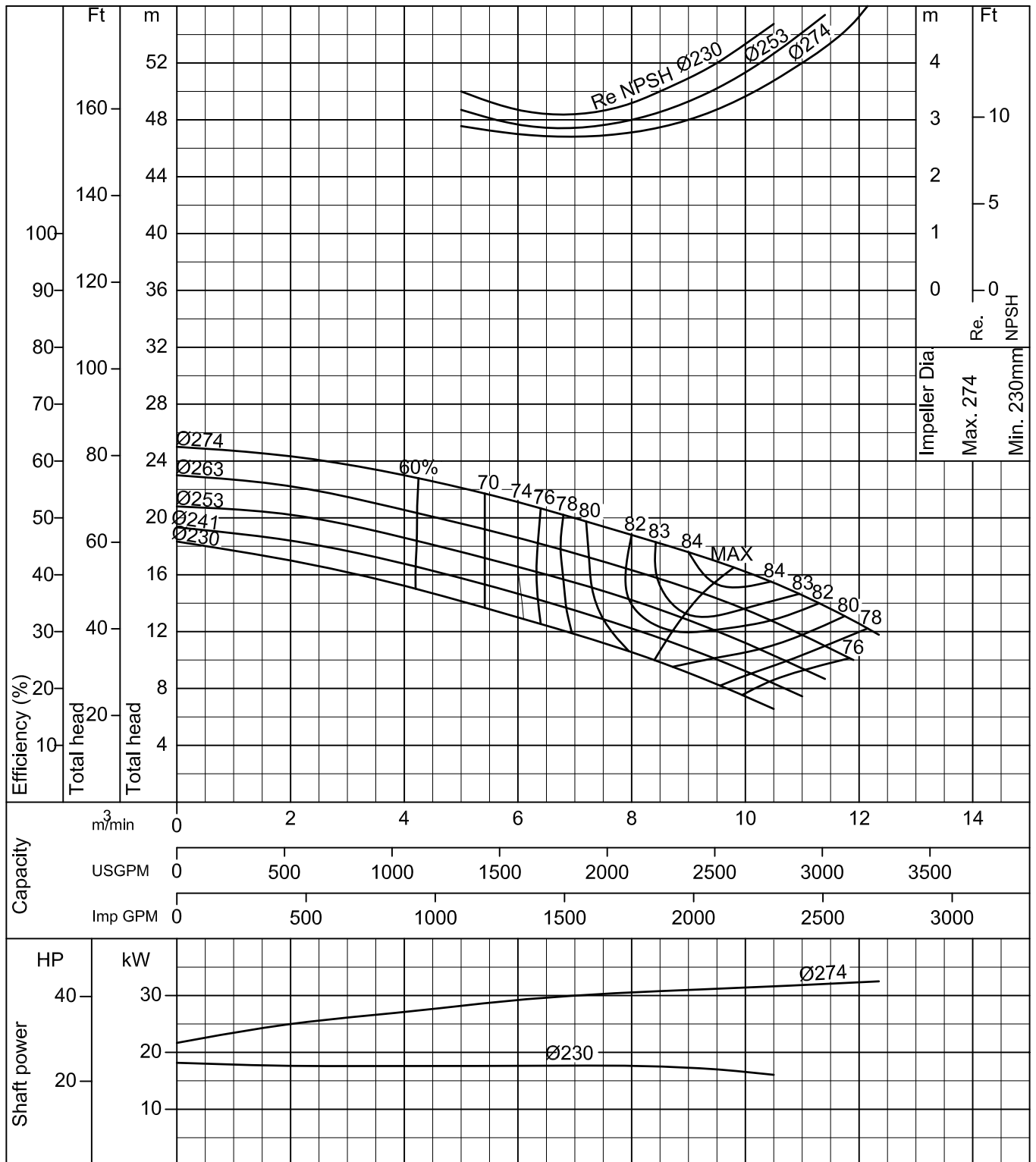
250 x 150 CNKA	According to ISO testing code 2548 Class C
50Hz (Approx. speed 1450 min ⁻¹)	S.G.= 1.0 Vis.= 1.0 cSt



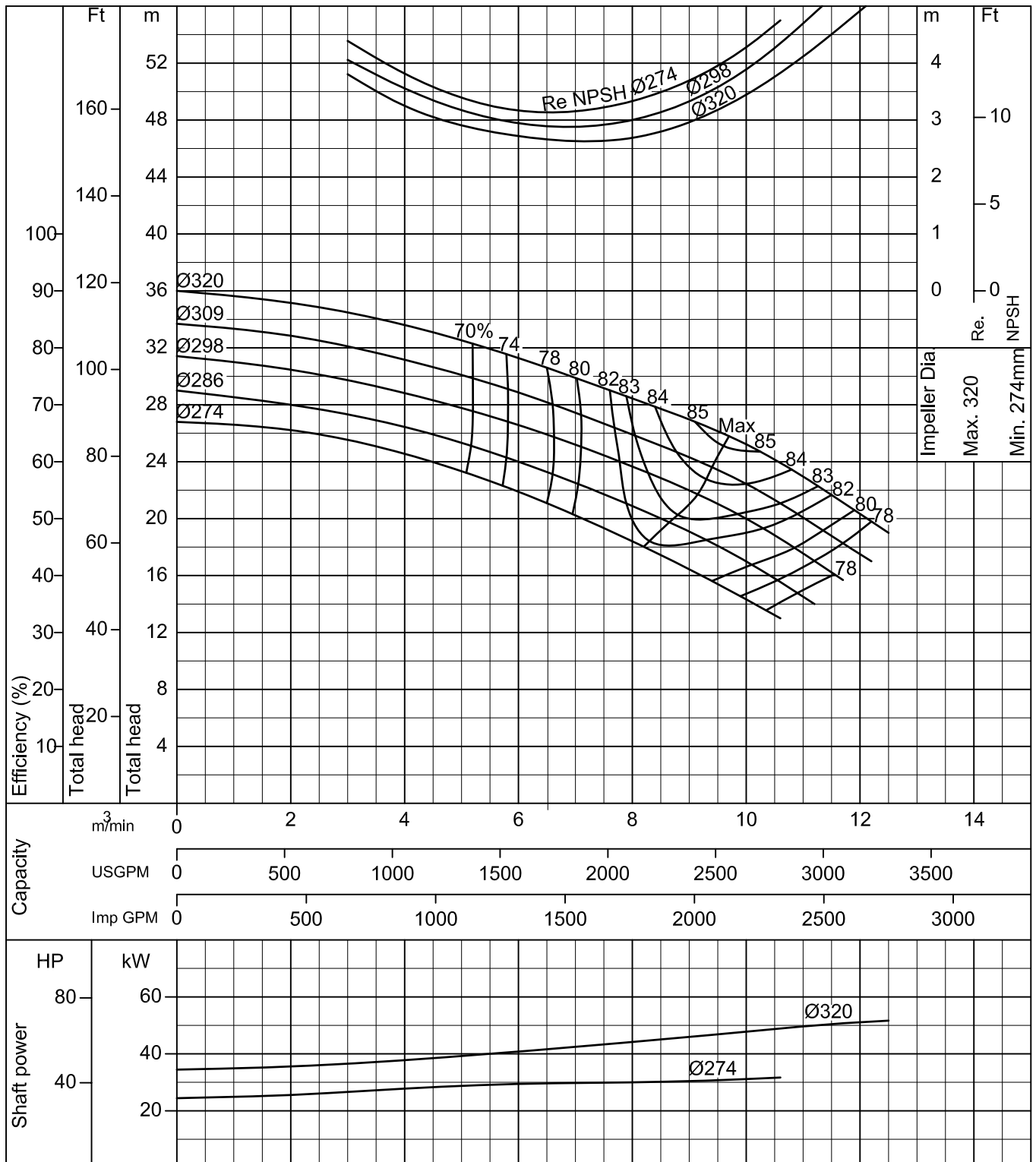
Performance Curve

50Hz

300 x 250 CNEA	According to JIS testing code B8301, B8302
50Hz (Approx. speed 1450min ⁻¹)	S.G.= 1.0 Vis.= 1.0 cSt



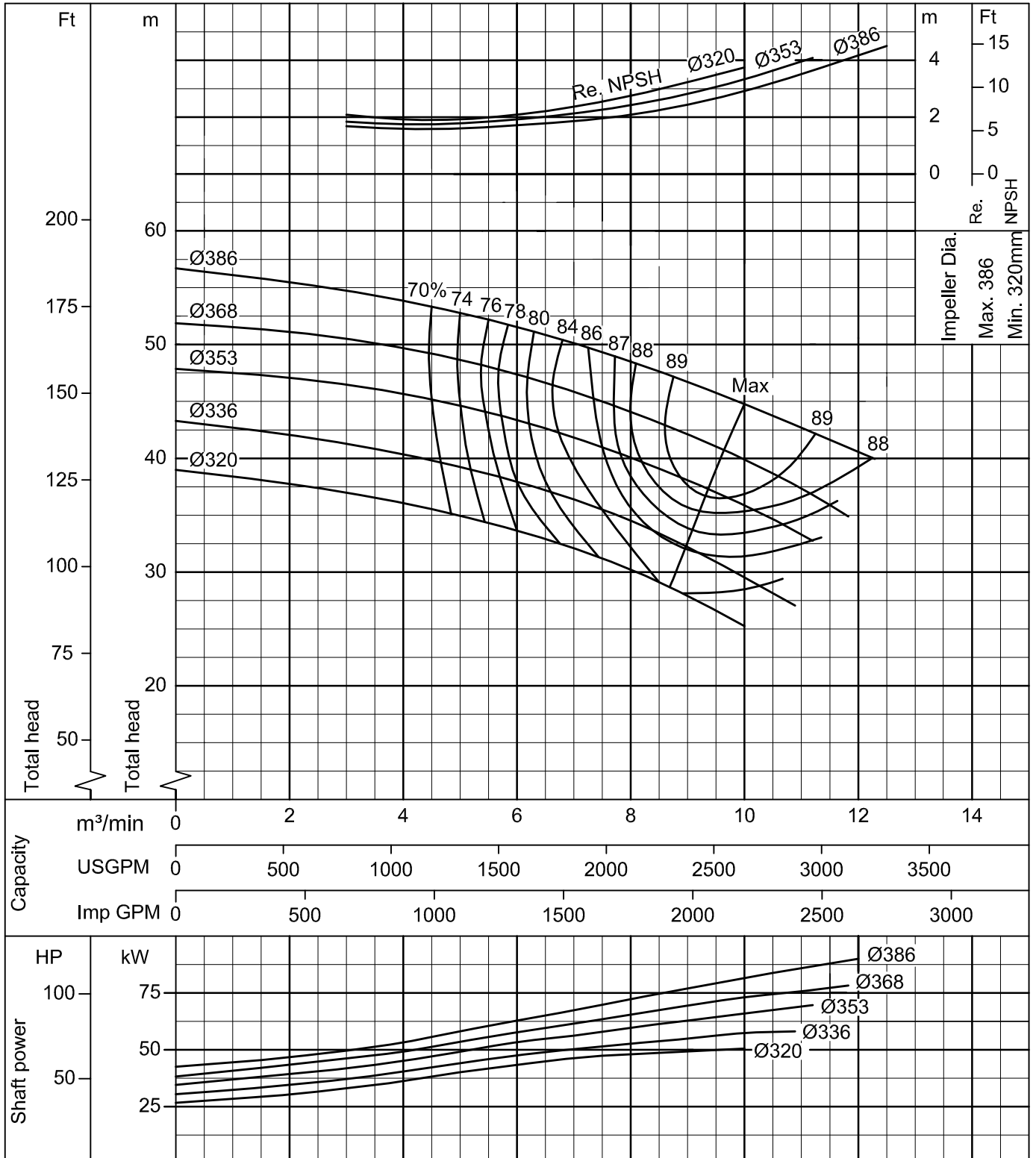
300 x 200 CNFA	According to JIS testing code B8301, B8302
50Hz (Approx. speed 1450min ⁻¹)	S.G.= 1.0 Vis.= 1.0 cSt



Performance Curve

50Hz

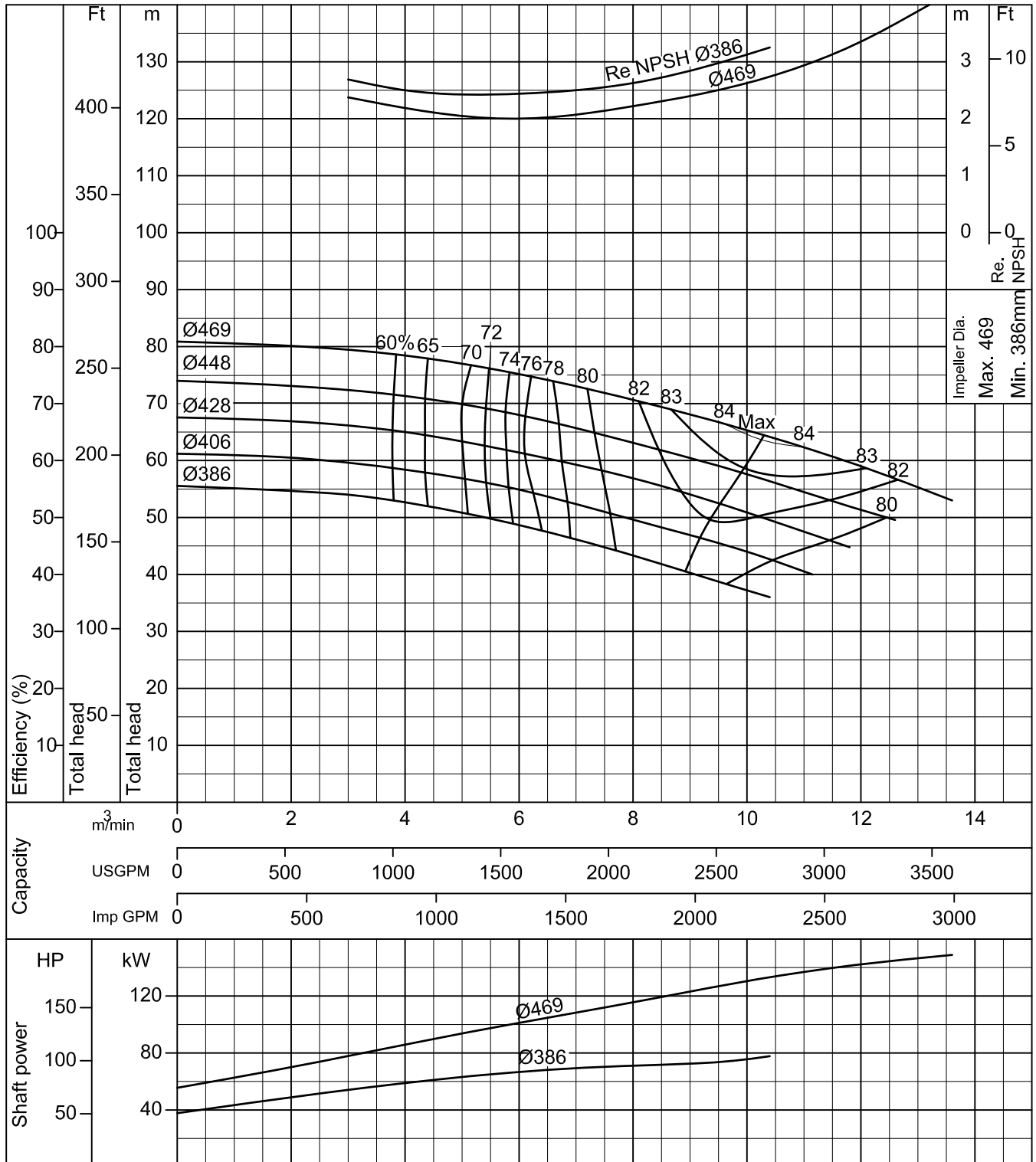
300 x 200 CNGA	According to JIS testing code B8301, B8302
50Hz (Approx. speed 1450min ⁻¹)	S.G.= 1.0 Vis.= 1.0 cSt



Performance Curve

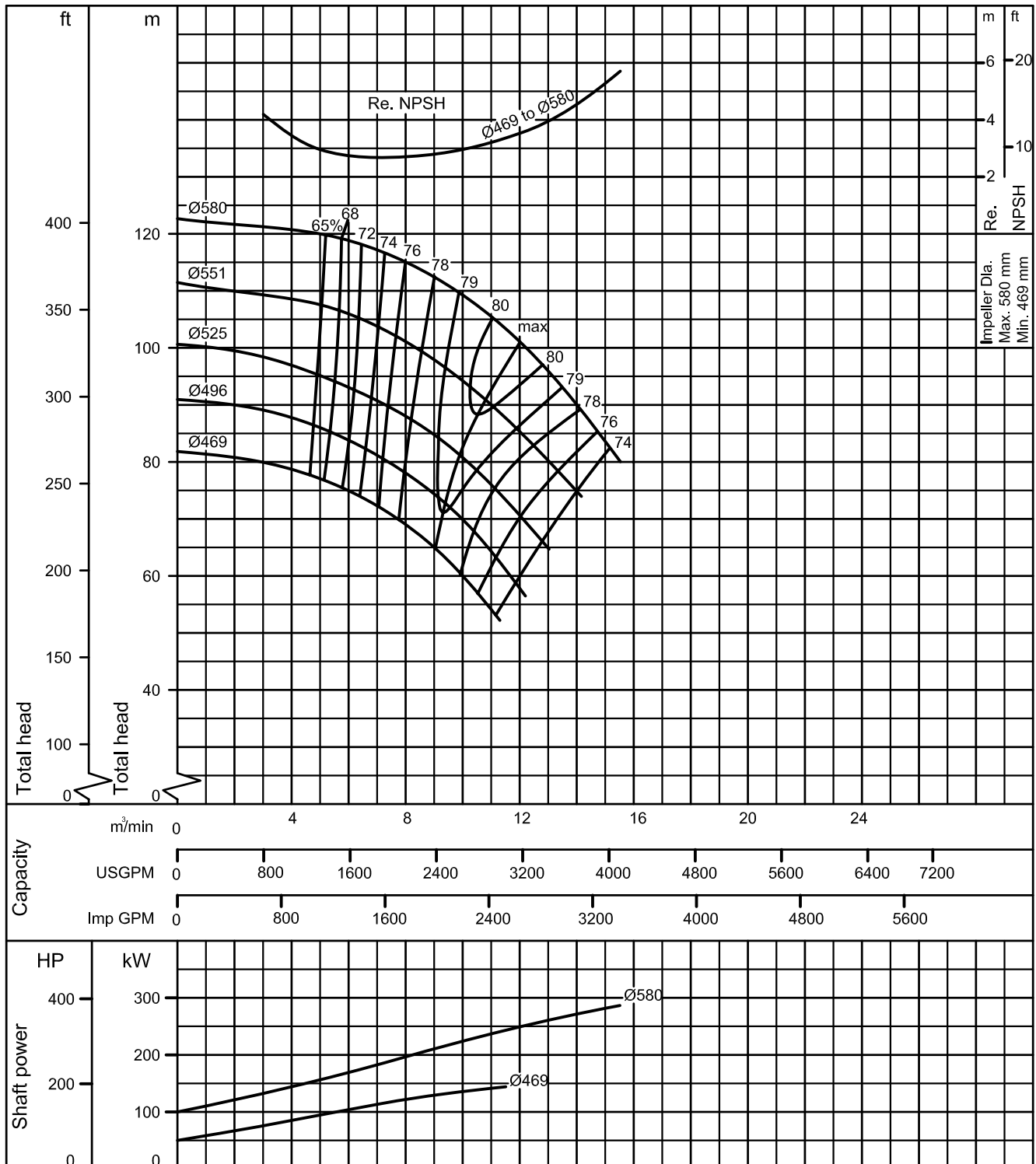
50Hz

300 x 200 CNHA	According to JIS testing code B8301, B8302
50Hz (Approx. speed 1450min ⁻¹)	S.G.= 1.0 Vis.= 1.0 cSt



Performance Curve

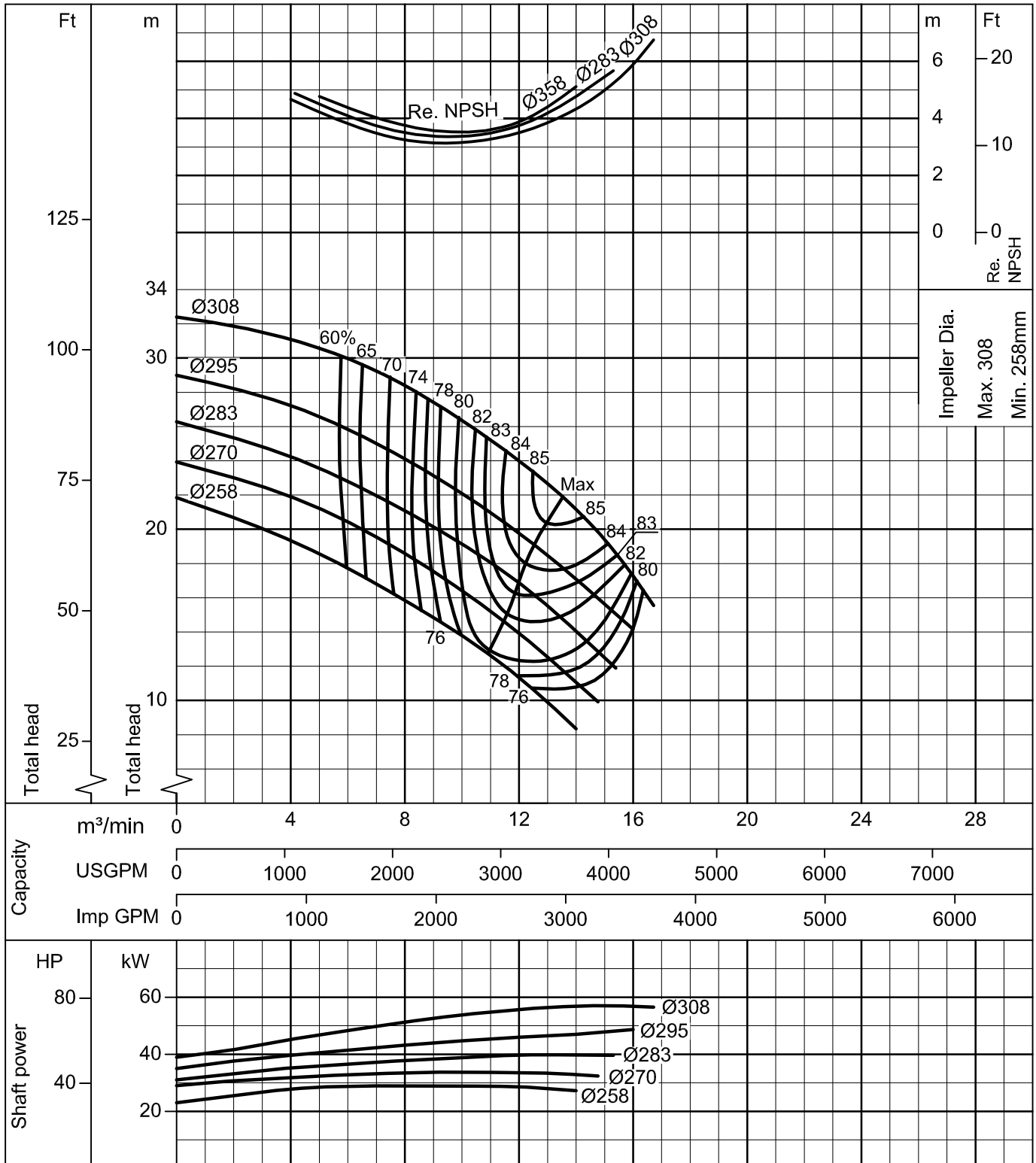
300 x 150 CNJA	According to ISO testing code 2548 Class C
50Hz (Approx. speed 1450 min ⁻¹)	S.G.= 1.0 Vis.= 1.0 cSt



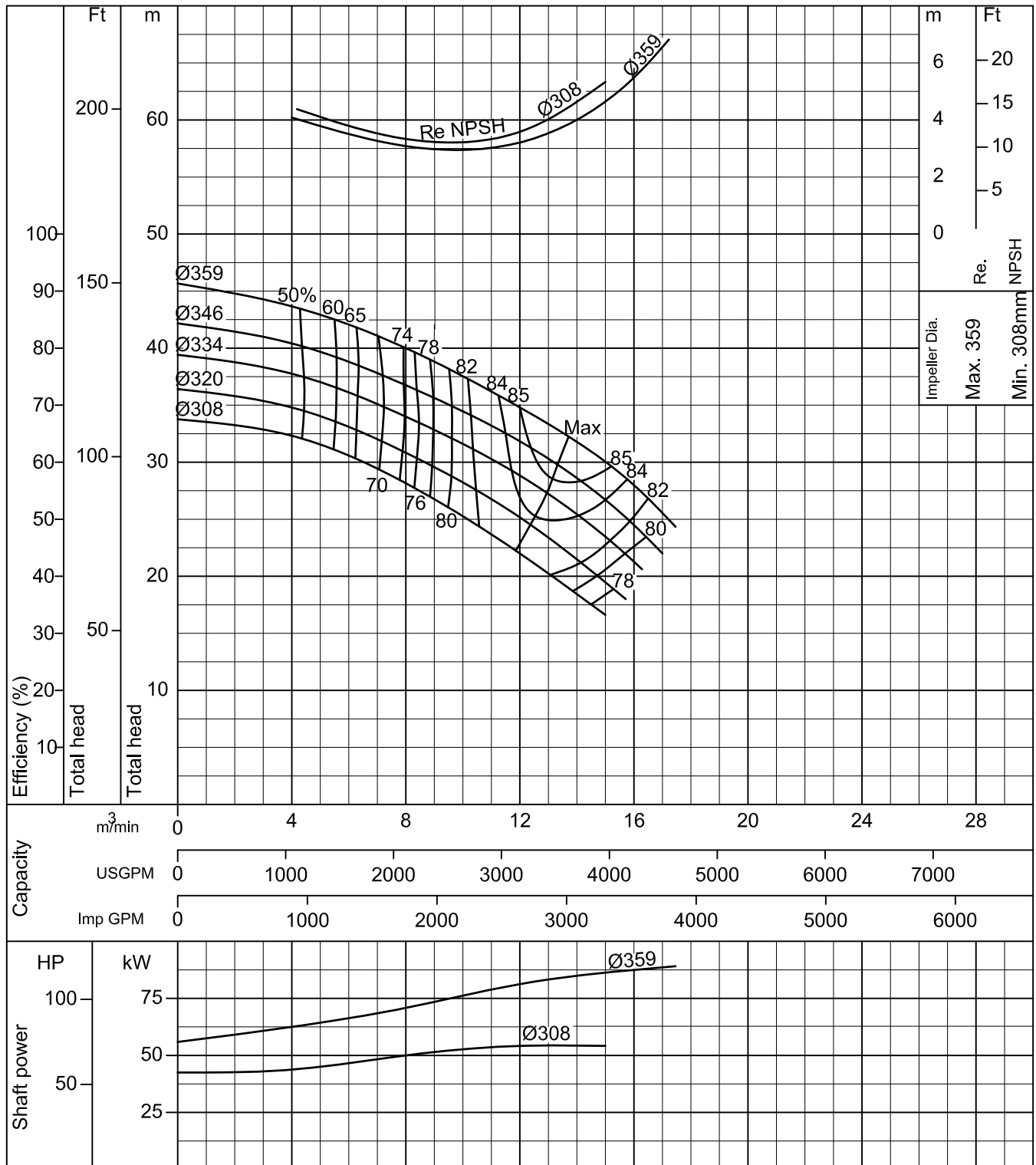
Performance Curve

50Hz

300 x 250 CNFA	According to JIS testing code B8301, B8302
50Hz (Approx. speed 1450min ⁻¹)	S.G.= 1.0 Vis.= 1.0 cSt



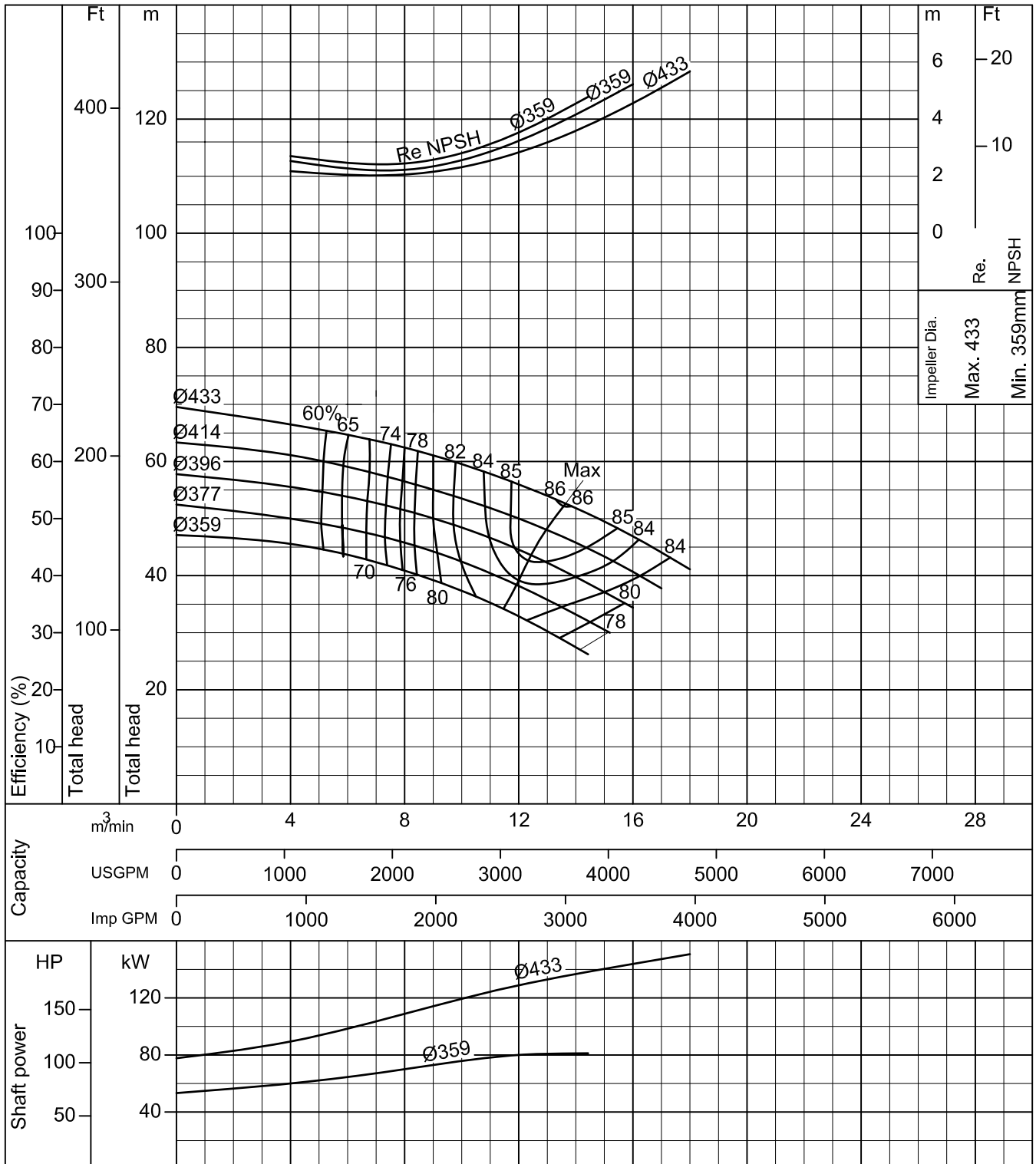
300 x 250 CNGA	According to JIS testing code B8301, B8302
50Hz (Approx. speed 1450min ⁻¹)	S.G.= 1.0 Vis.= 1.0 cSt



Performance Curve

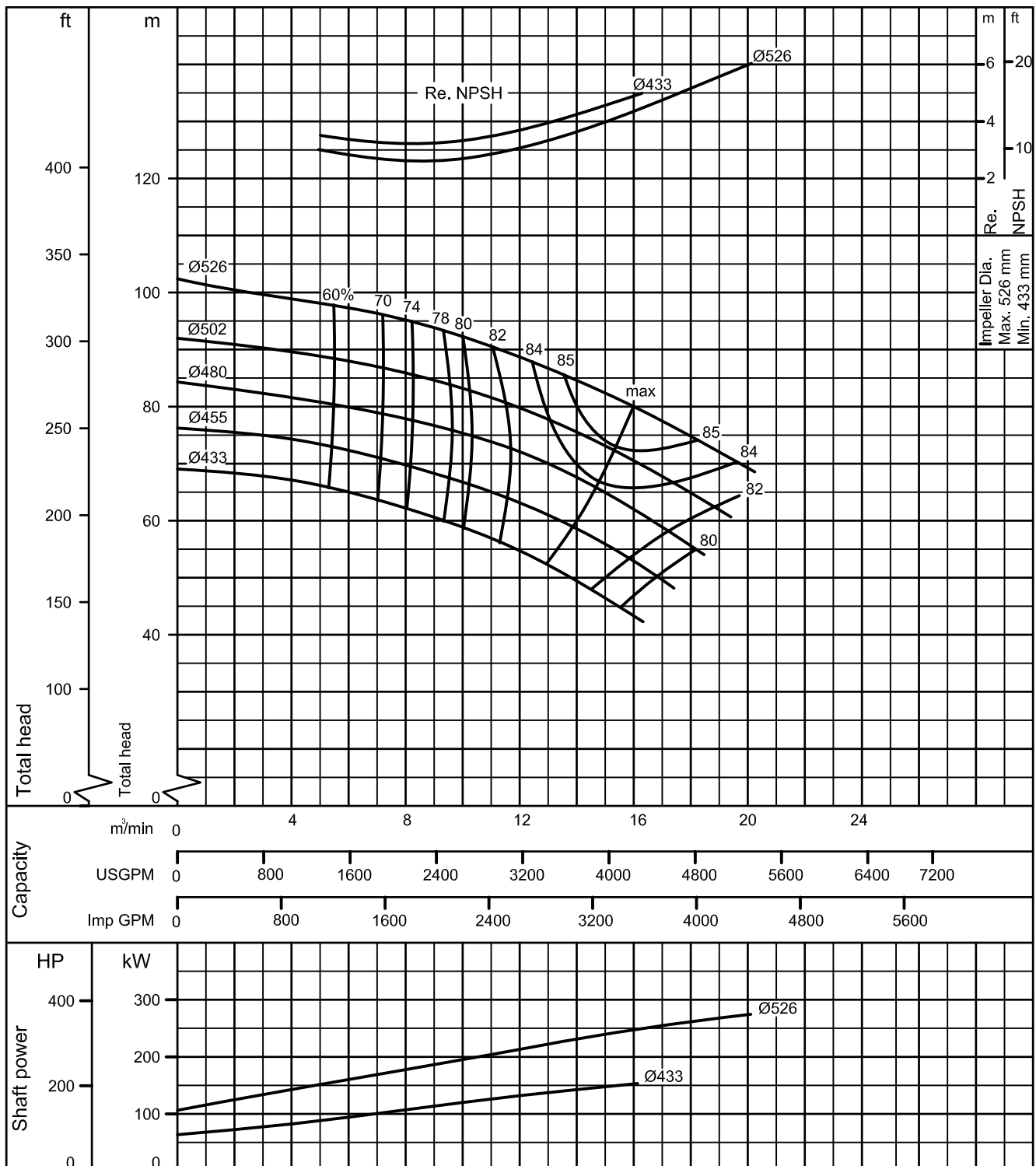
50Hz

300 x 250 CNHA	According to JIS testing code B8301, B8302
50Hz (Approx. speed 1450min ⁻¹)	S.G.= 1.0 Vis.= 1.0 cSt



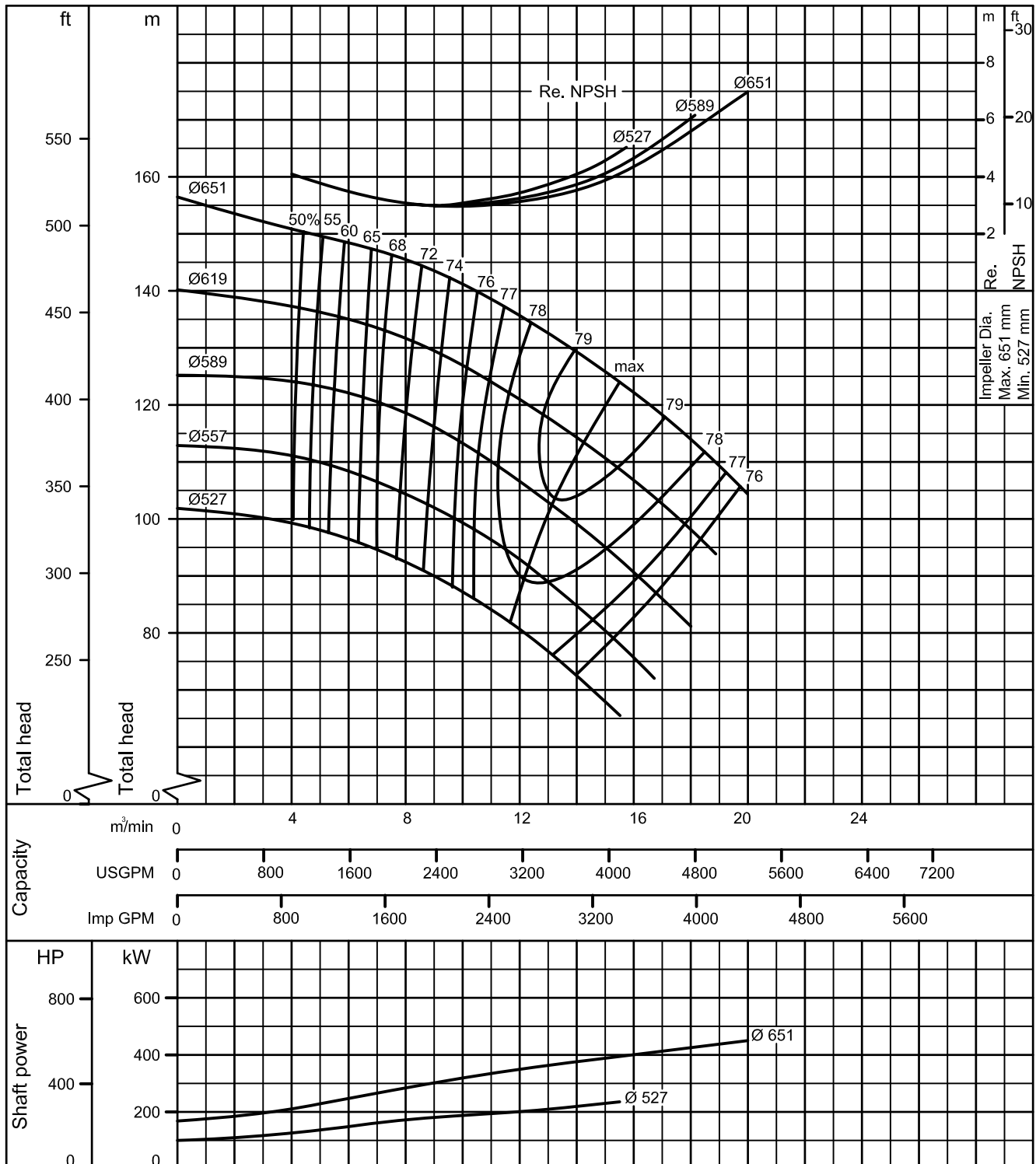
Performance Curve

300 x 200 CNJA	According to ISO testing code 2548 Class C
50Hz (Approx. speed 1450 min ⁻¹)	S.G.= 1.0 Vis.= 1.0 cSt



Performance Curve

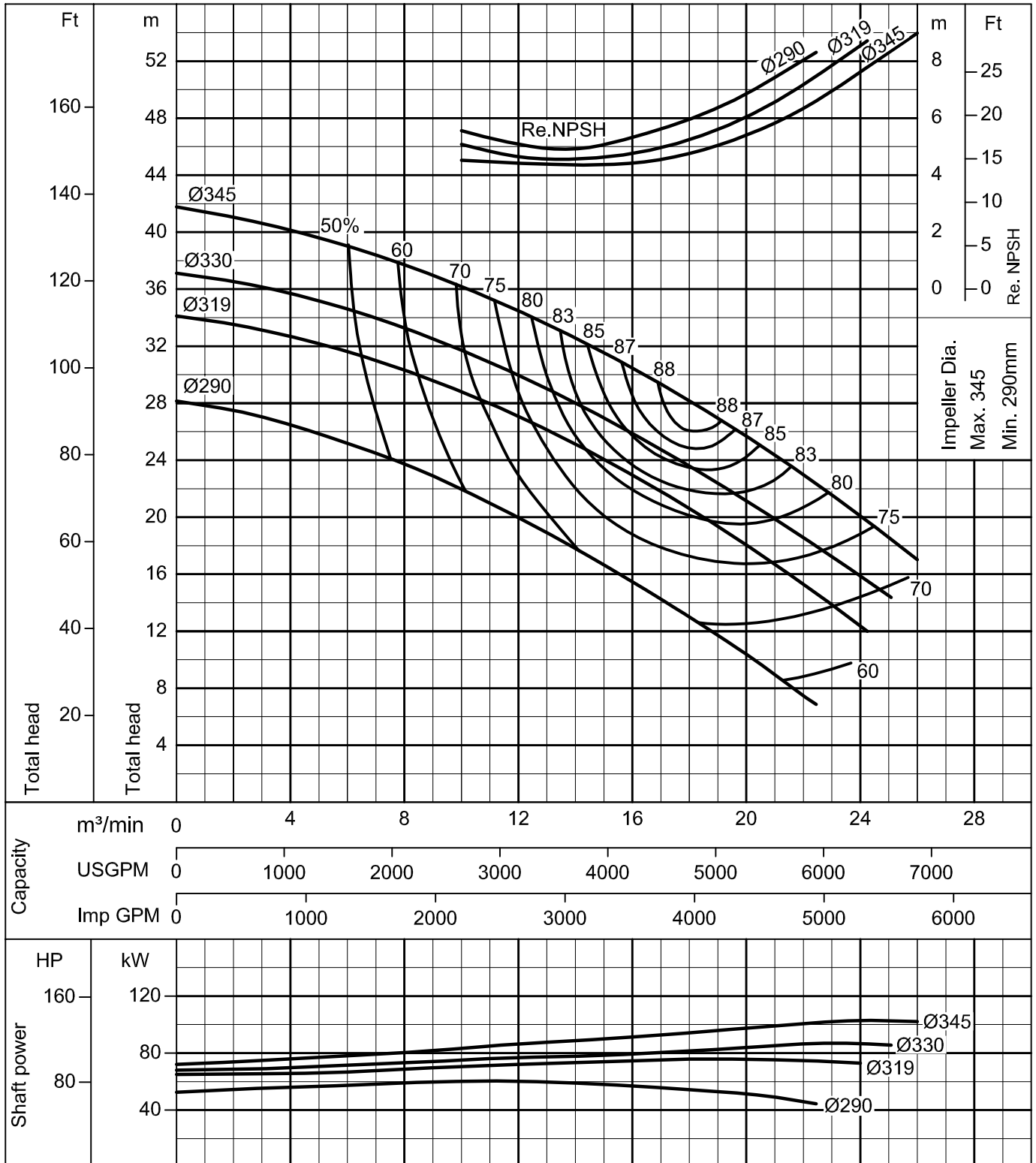
300 x 200 CNKA	According to ISO testing code 2548 Class C
50Hz (Approx. speed 1450 min ⁻¹)	S.G.= 1.0 Vis.= 1.0 cSt



Performance Curve

50Hz

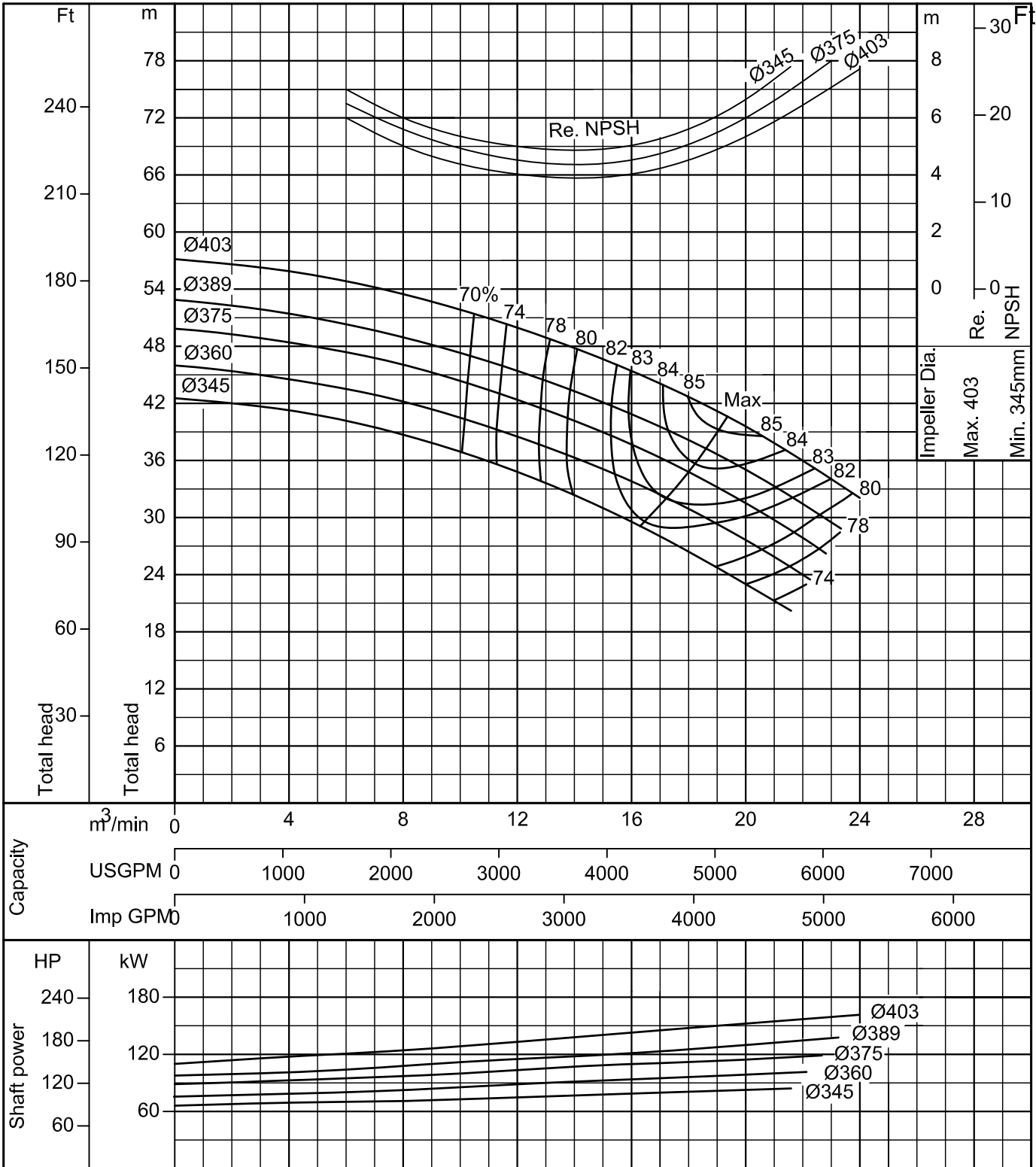
350 x 300 CNFA	According to JIS testing code B8301, B8302
50Hz (Approx. speed 1450min ⁻¹)	S.G.= 1.0 Vis.= 1.0 cSt



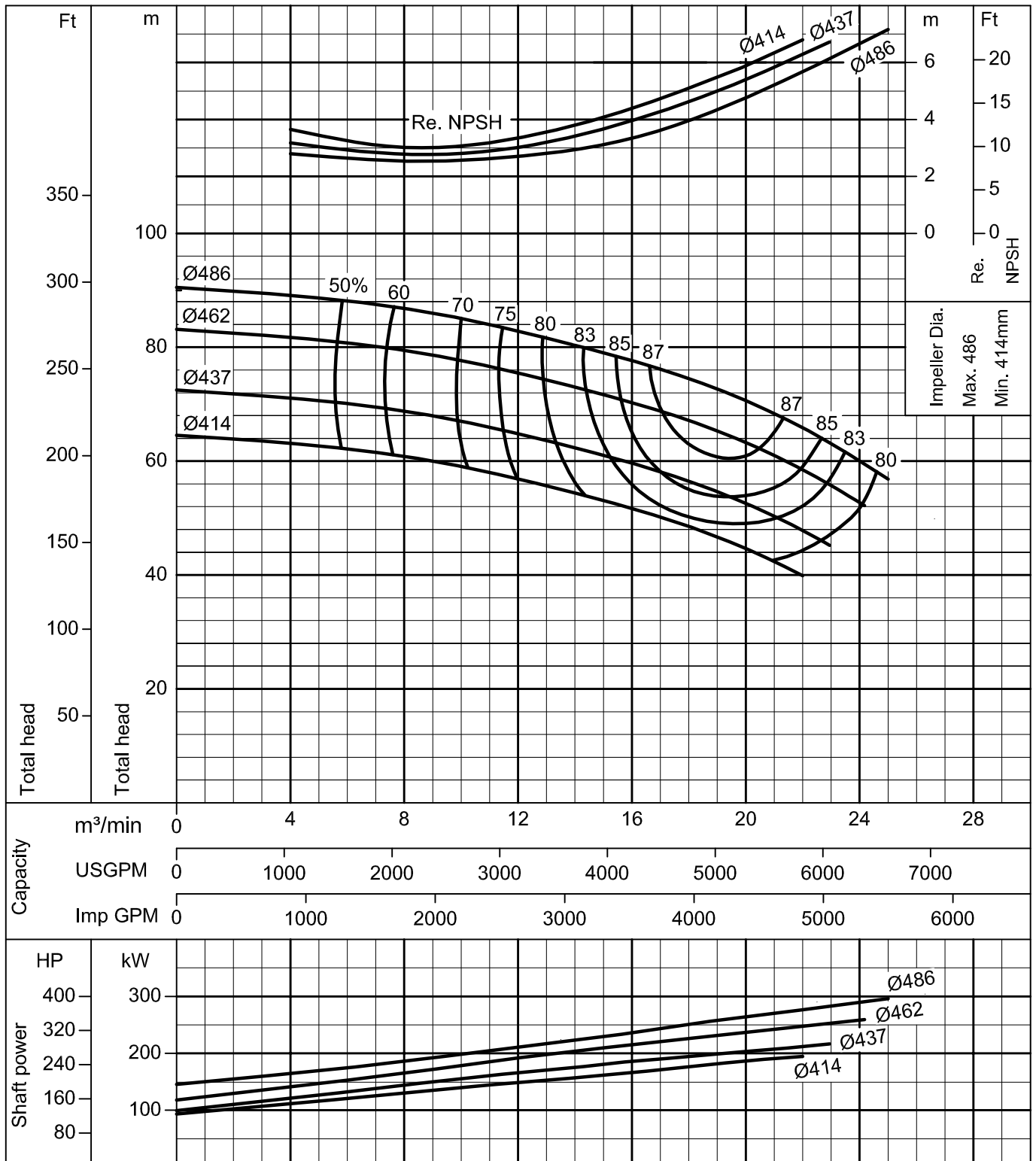
Performance Curve

50Hz

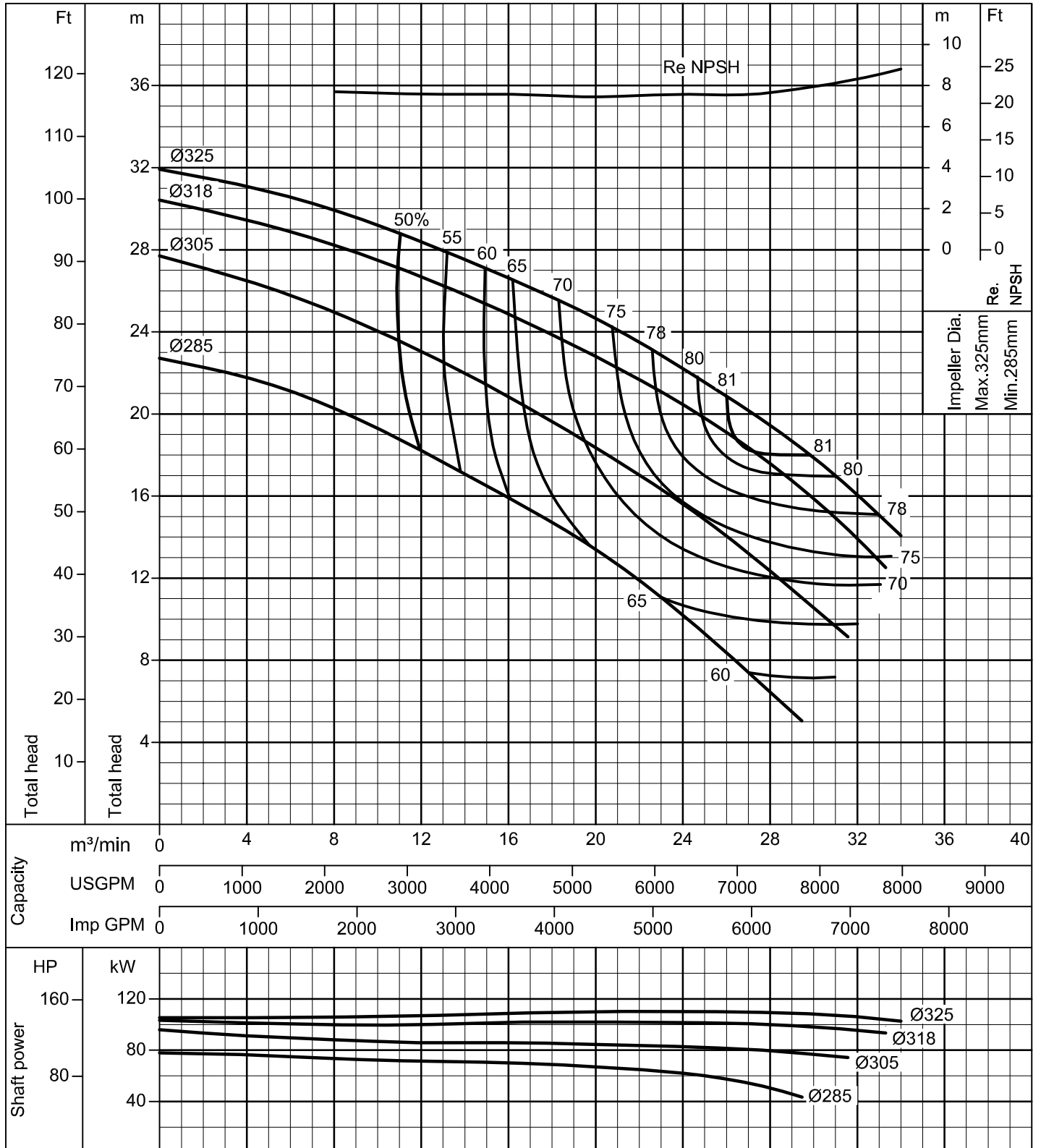
350 x 250 CNGA	According to JIS testing code B8301, B8302
50Hz (Approx. speed 1450min ⁻¹)	S.G.= 1.0 Vis.= 1.0 cSt



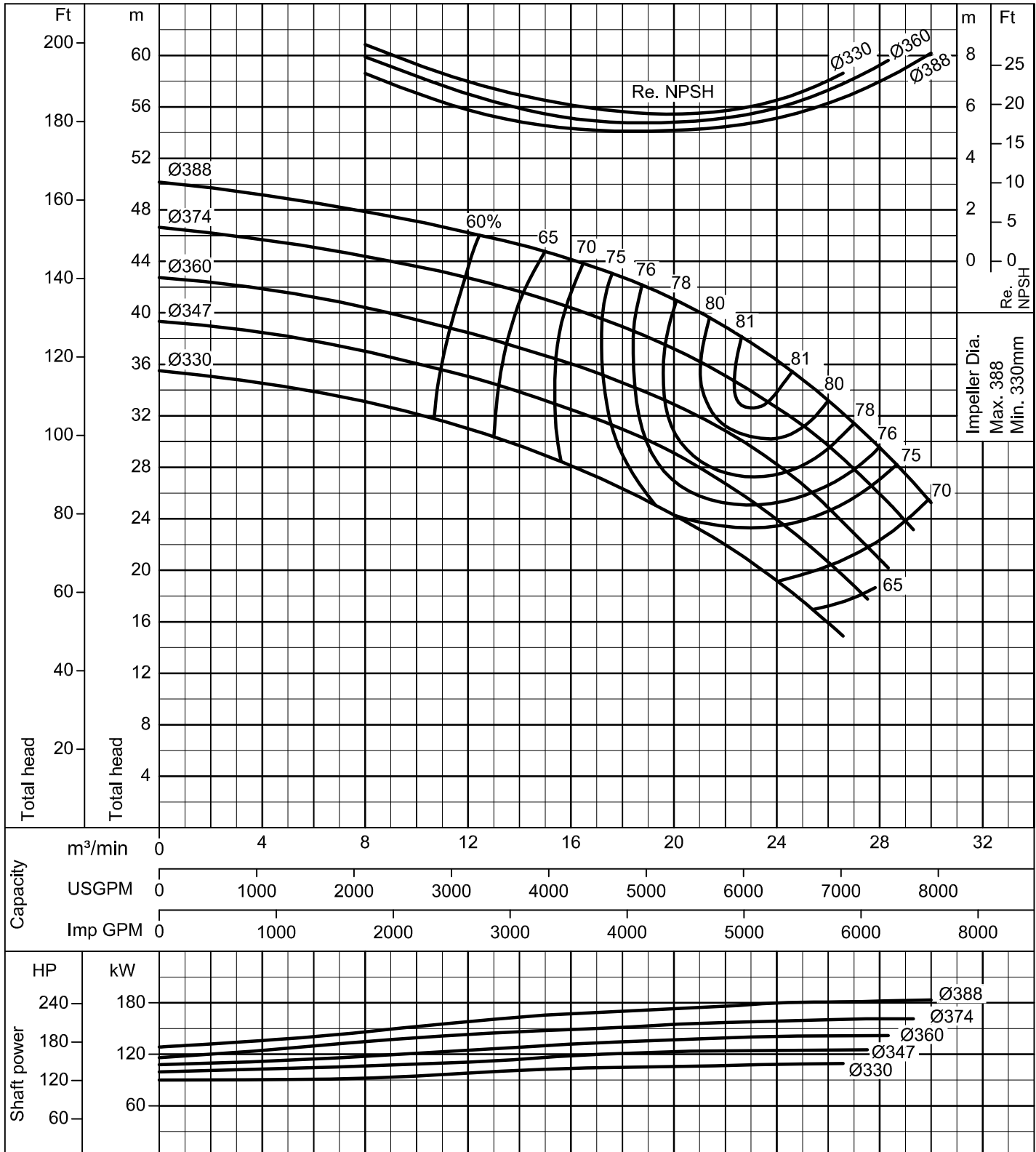
350 x 250 CNHA	According to JIS testing code B8301, B8302
50Hz (Approx. speed 1450min ⁻¹)	S.G.= 1.0 Vis.= 1.0 cSt



400 x 350 CNEA	According to JIS testing code B8301, B8302
50Hz (Approx. speed 1450min ⁻¹)	
S.G.= 1.0 Vis.= 1.0 cSt	



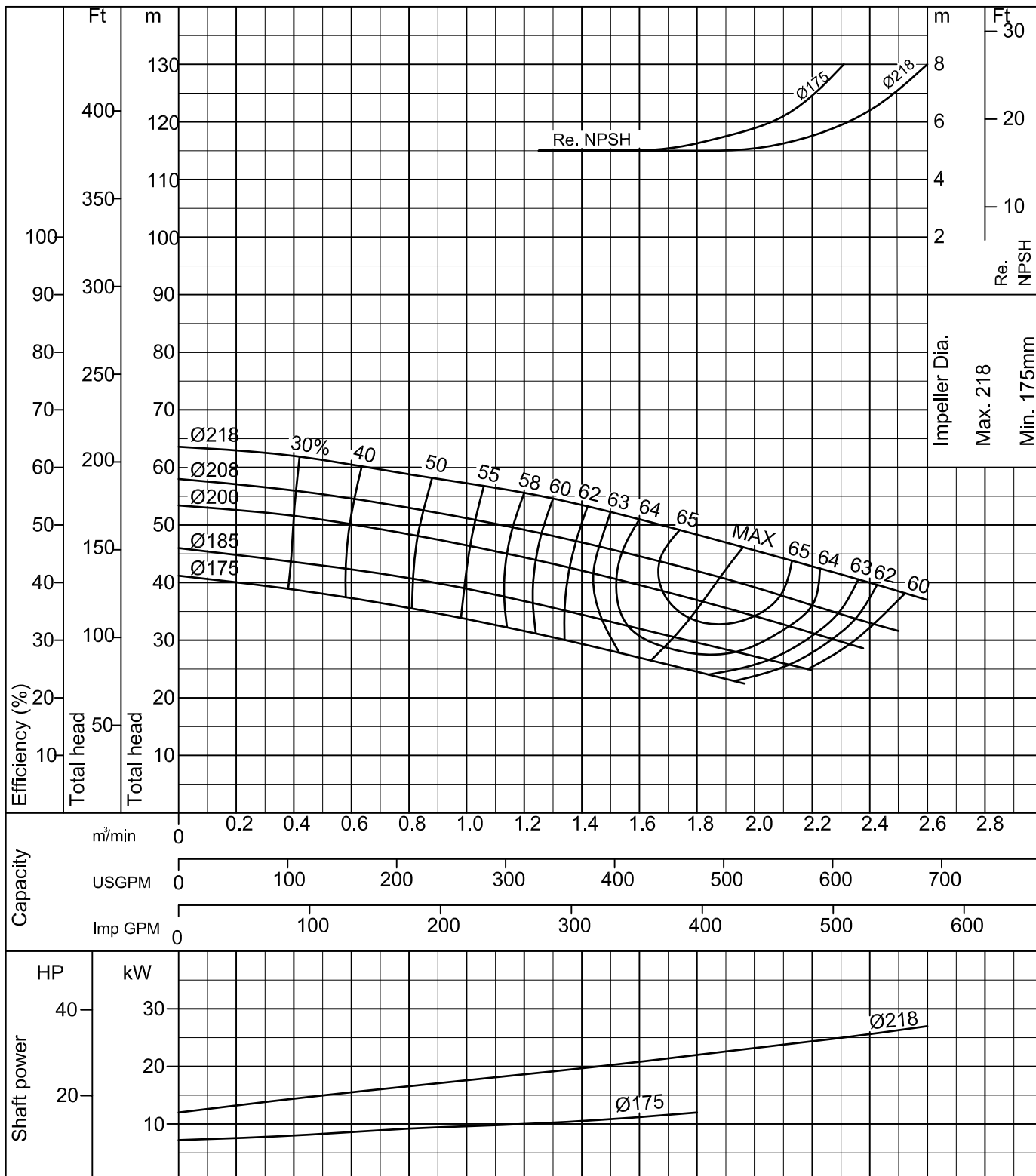
400 x 350 CNFA	According to JIS testing code B8301, B8302
50Hz (Approx. speed 1450min ⁻¹)	S.G.= 1.0 Vis.= 1.0 cSt



Performance Curve

50Hz

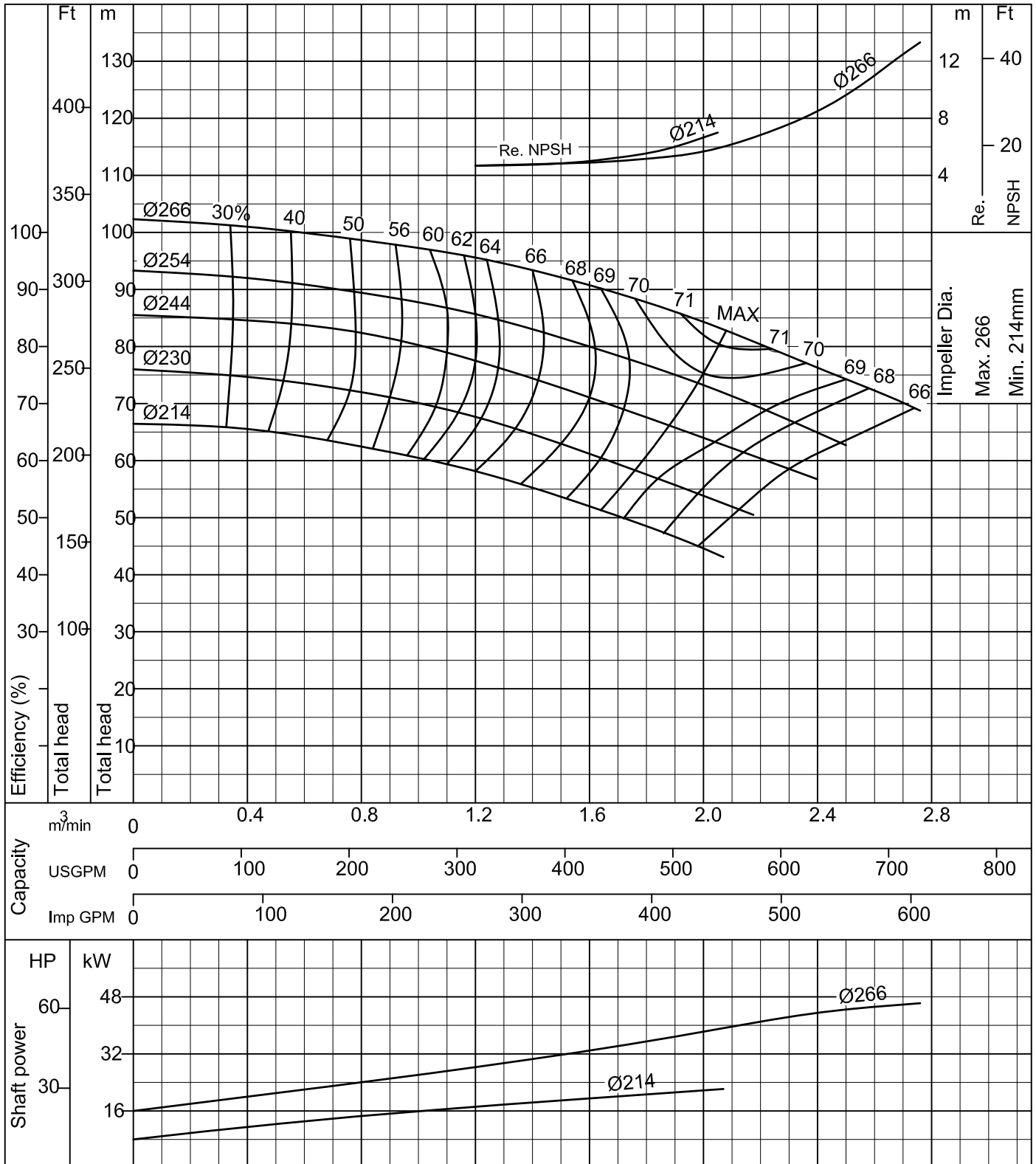
100 x 80 CSGA	According to JIS testing code B8301, B8302
50Hz (Approx. speed 2900min ⁻¹)	S.G.= 1.0 Vis.= 1.0 cSt



Performance Curve

50Hz

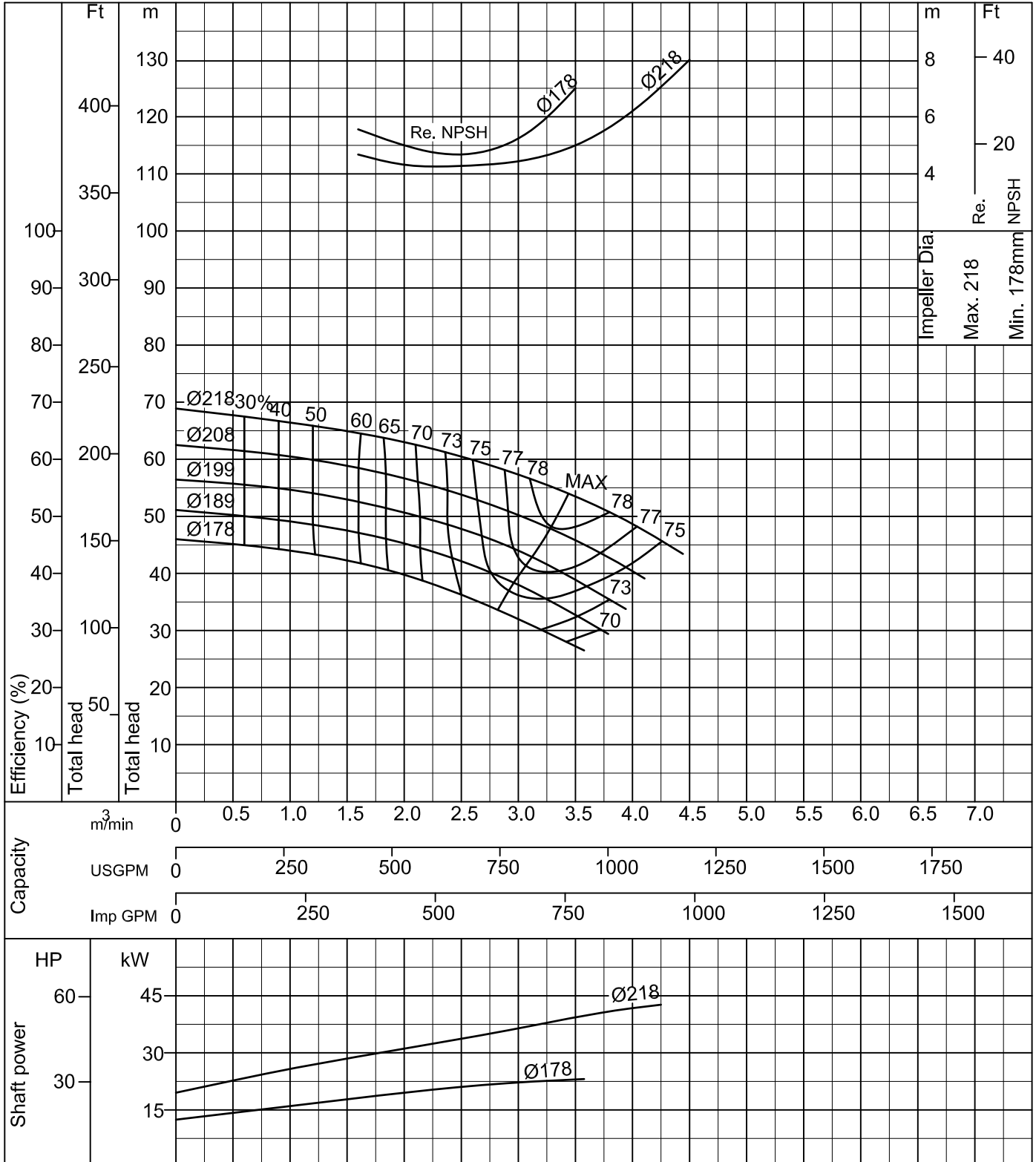
100 x 80 CSHA	According to JIS testing code B8301, B8302
50Hz (Approx. speed 2900min ⁻¹)	S.G.= 1.0 Vis.= 1.0 cSt



Performance Curve

50Hz

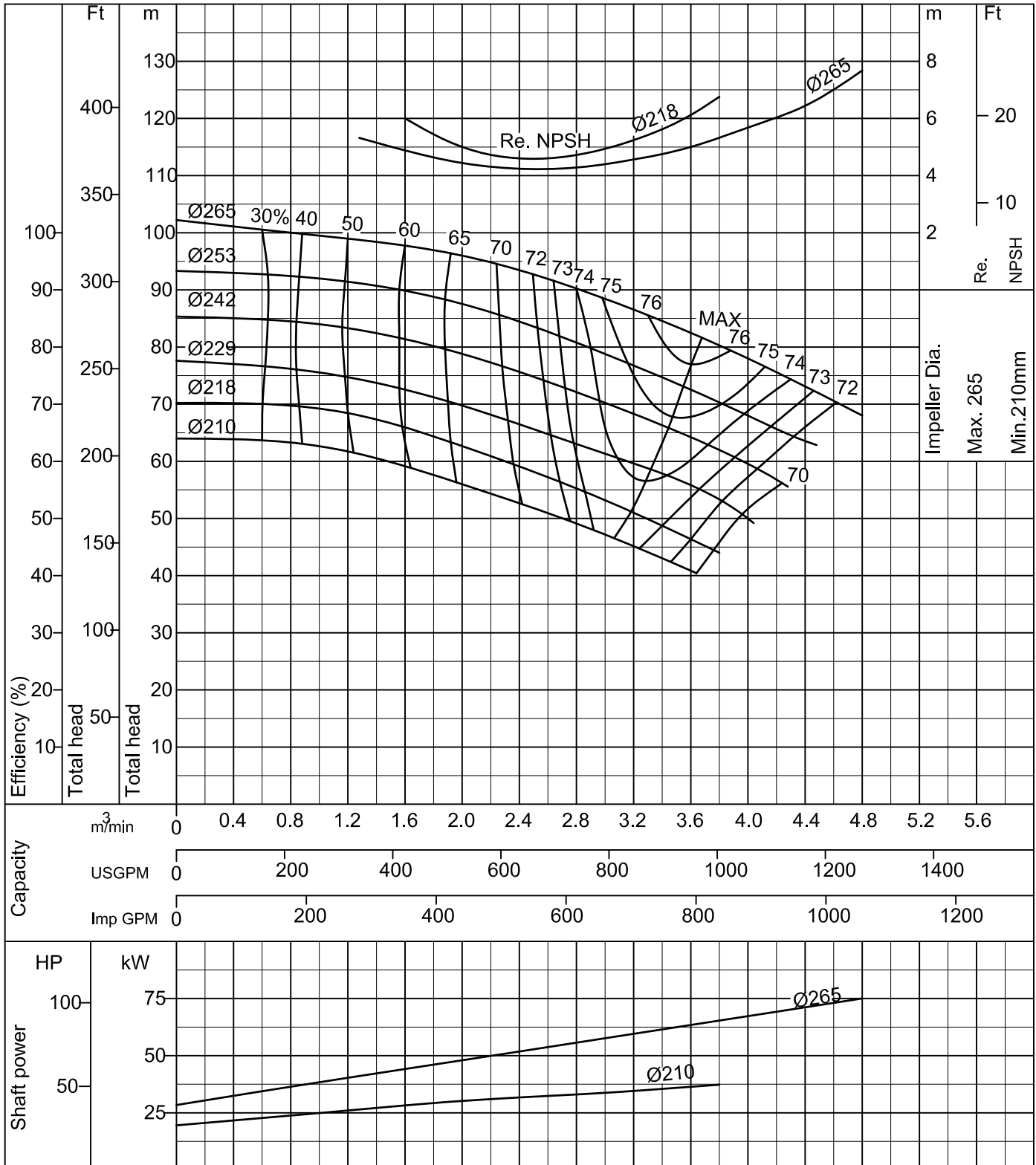
125 x 100 CNGA	According to JIS testing code B8301, B8302
50Hz (Approx. speed 2900min ⁻¹)	S.G.= 1.0 Vis.= 1.0 cSt



Performance Curve

50Hz

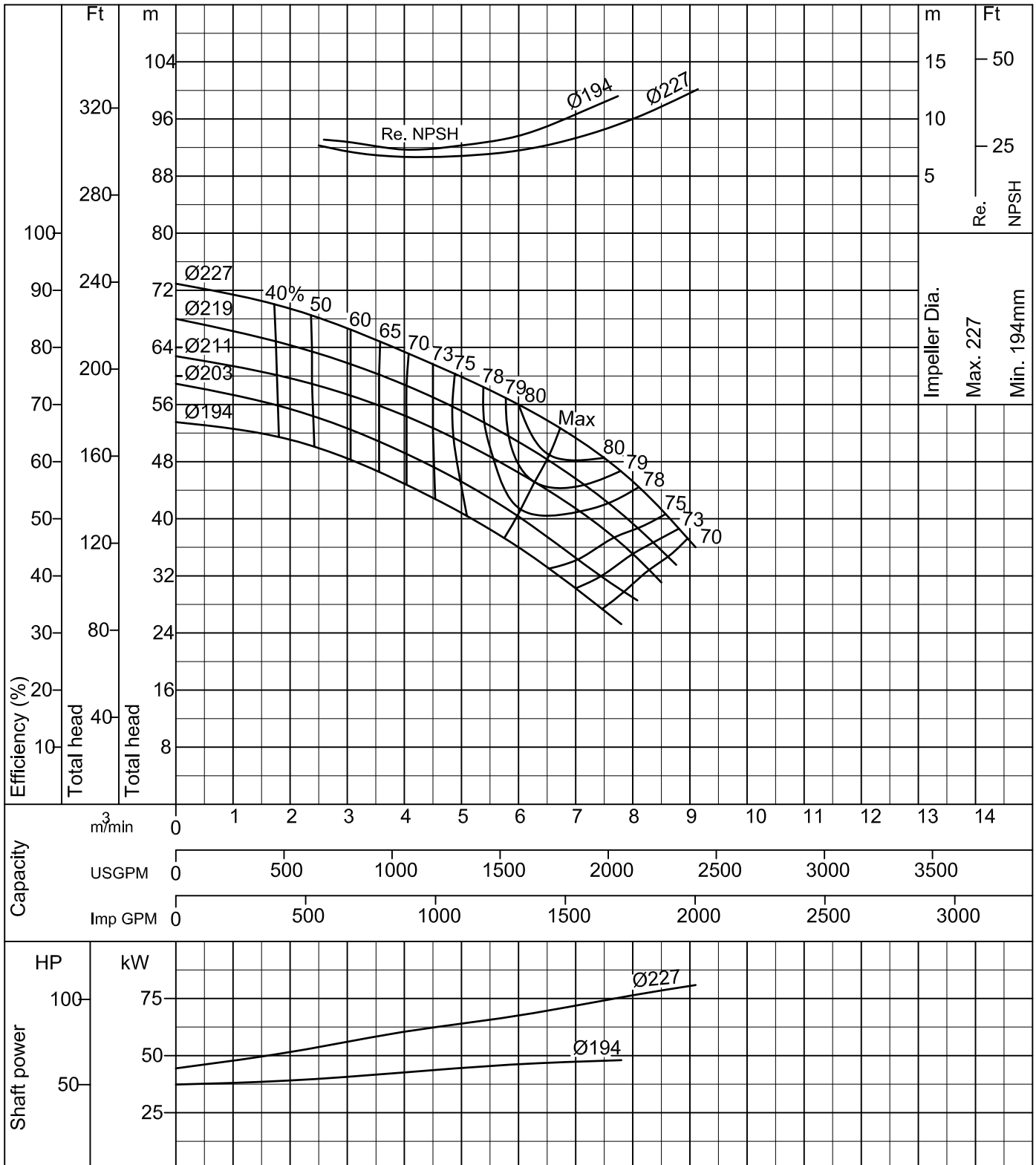
125 x 100 CNHA	According to JIS testing code B8301, B8302
50Hz (Approx. speed 2900min ⁻¹)	S.G.= 1.0 Vis.= 1.0 cSt



Performance Curve

50Hz

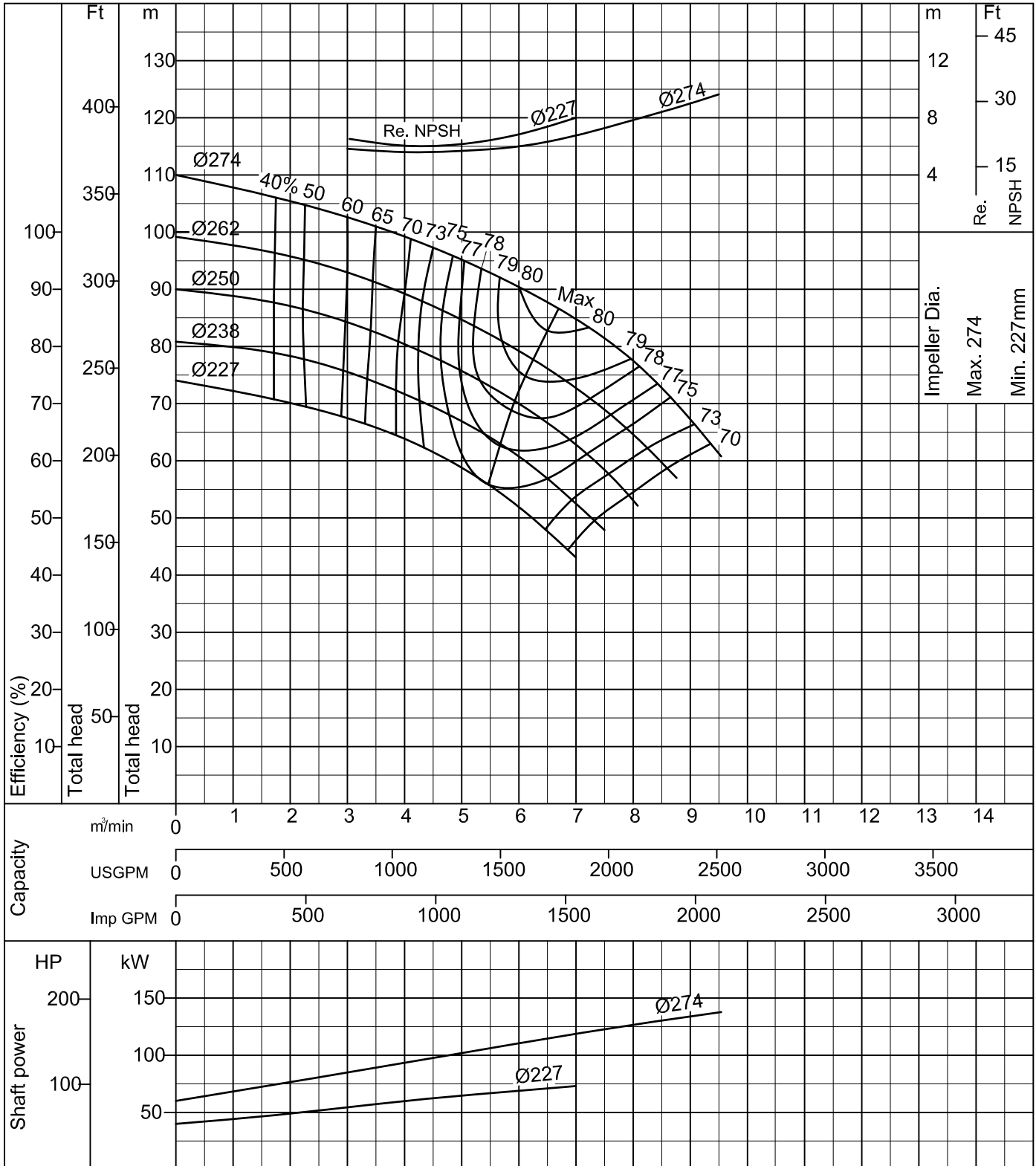
150 x 150 CNFA	According to JIS testing code B8301, B8302
50Hz (Approx. speed 2900min ⁻¹)	S.G.= 1.0 Vis.= 1.0 cSt



Performance Curve

50Hz

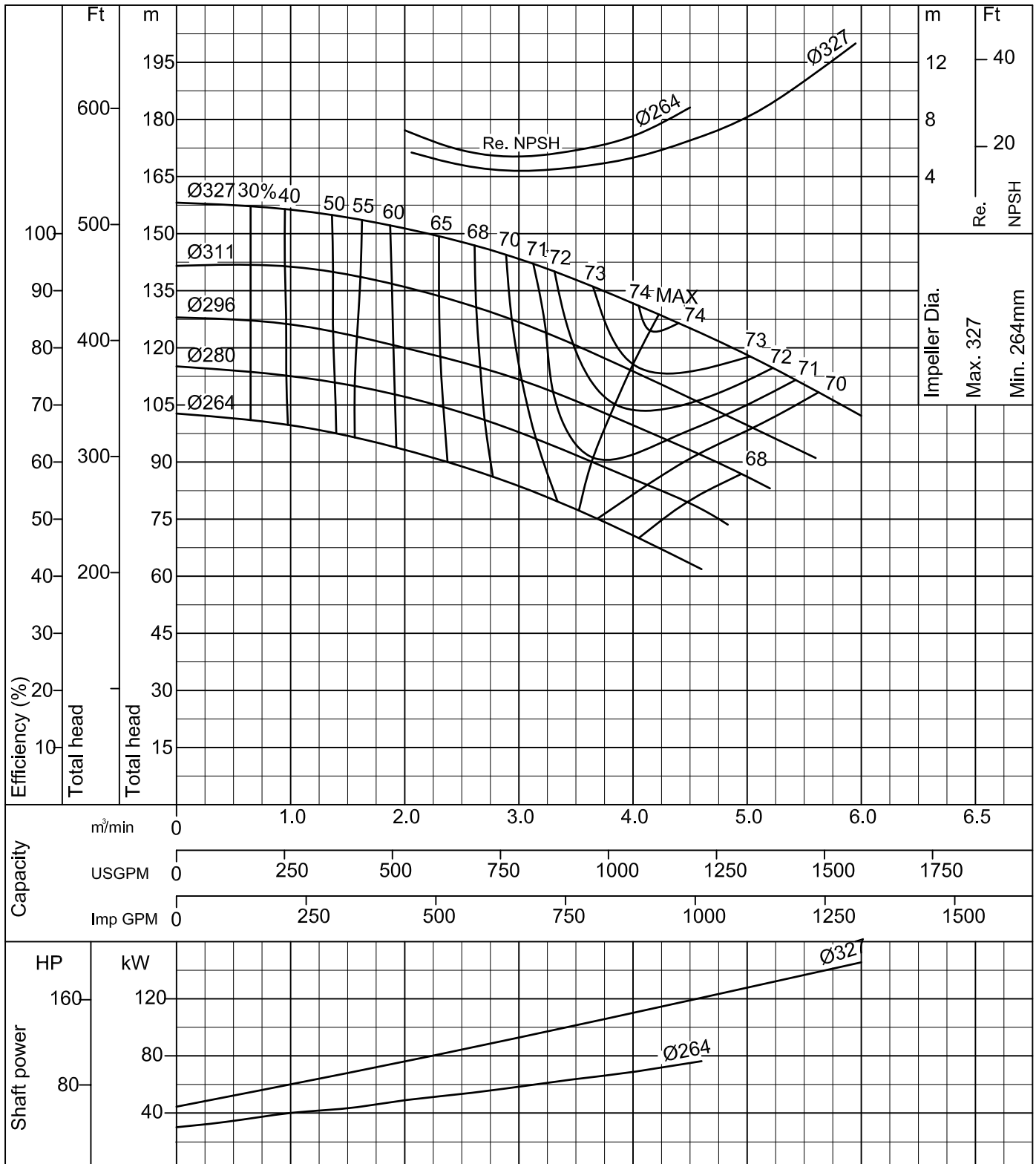
150 x 125 CNGA	According to JIS testing code B8301, B8302
50Hz (Approx. speed 2900min ⁻¹)	S.G.= 1.0 Vis.= 1.0 cSt



Performance Curve

50Hz

125 x 80 CNJA	According to JIS testing code B8301, B8302
50Hz (Approx. speed 2900min ⁻¹)	S.G.= 1.0 Vis.= 1.0 cSt



All specifications are subject to change without notice



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