



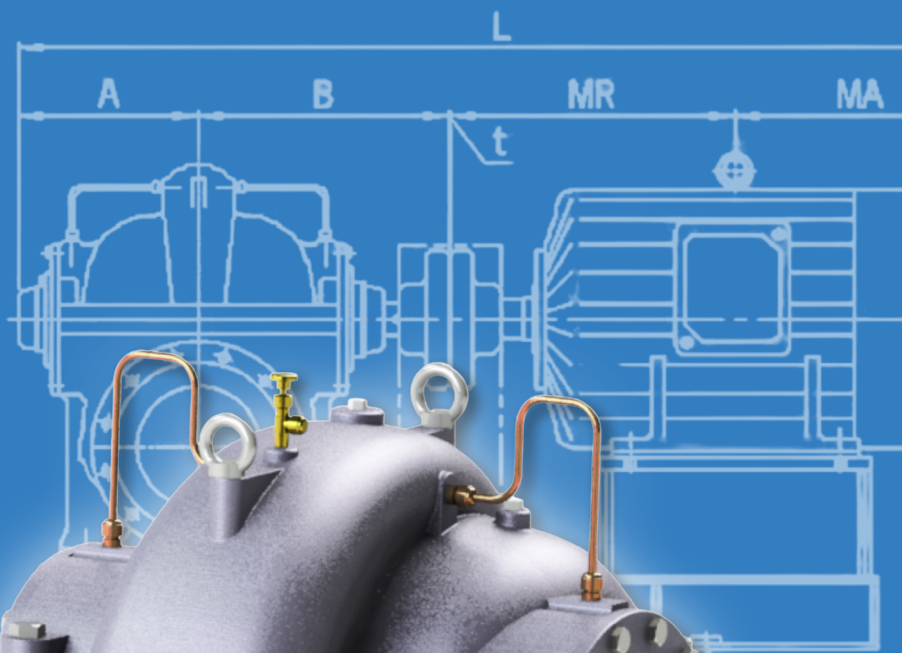
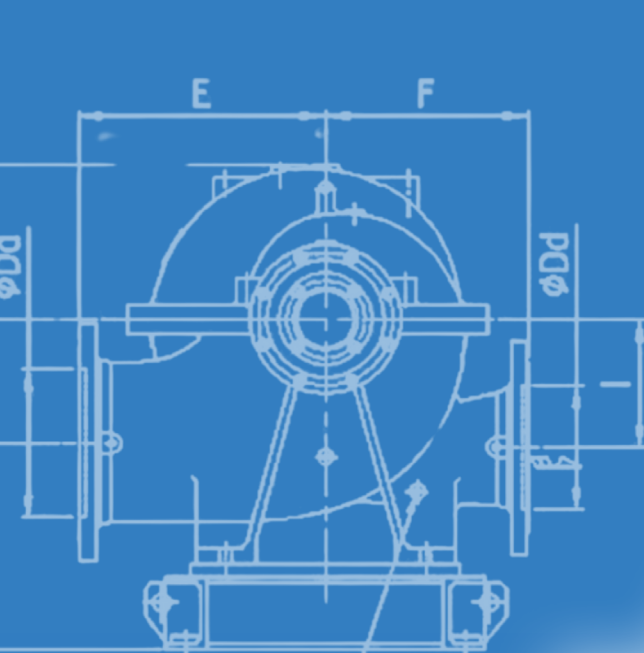
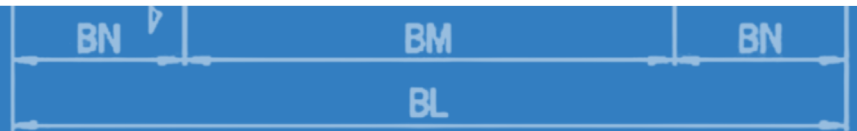
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Ahead > Beyond

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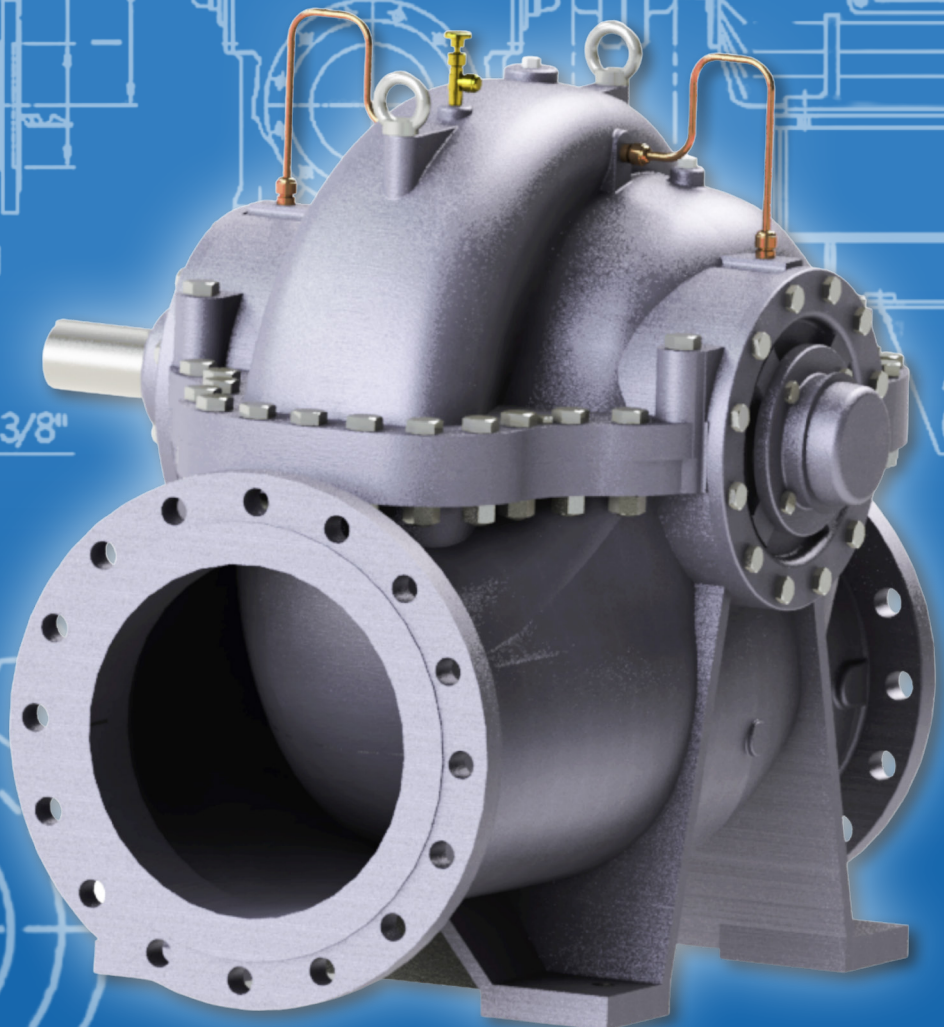
CNA/CSA - Horizontal Split Casing Pumps

Technical Data Book 50 Hz



Drain Plug 3/8"

ANCHOR
(n-Fb)



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Note:

All specifications subject to change without prior notice.

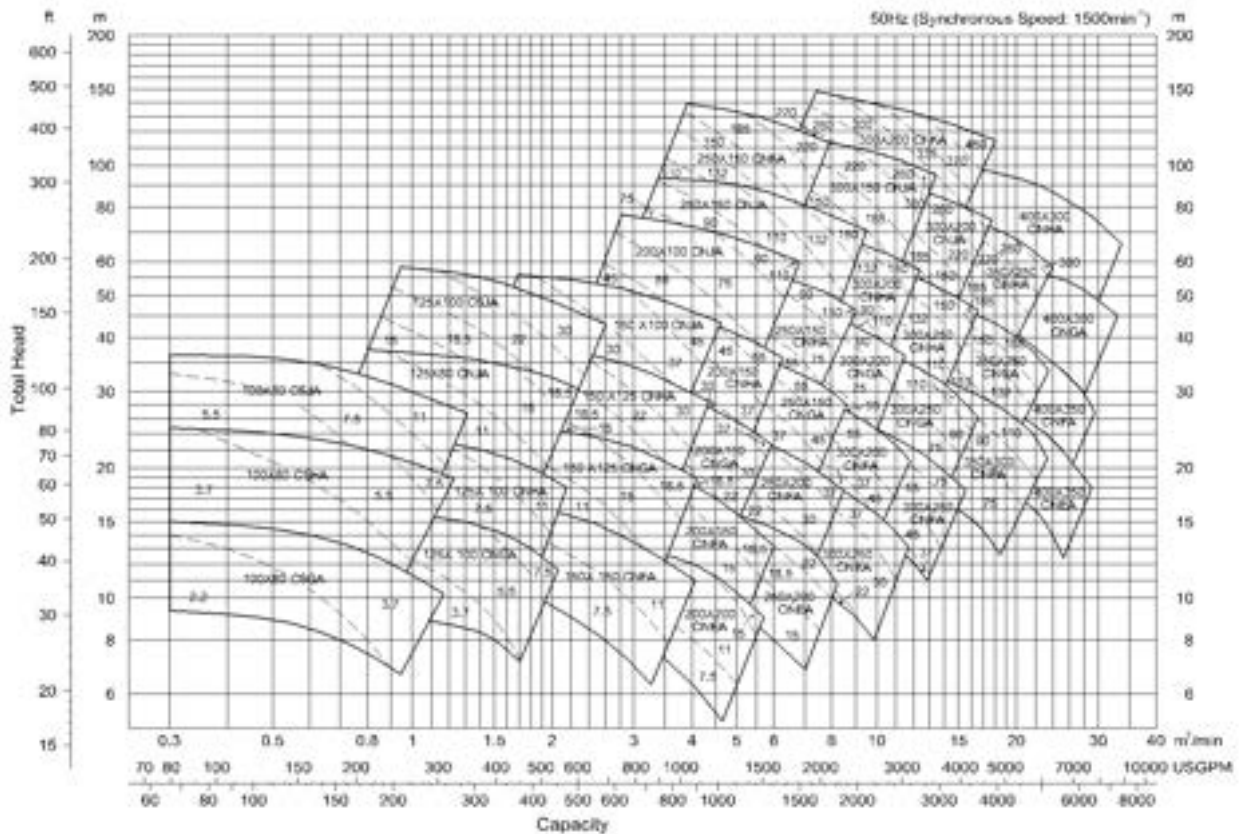
■ Features

- 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.

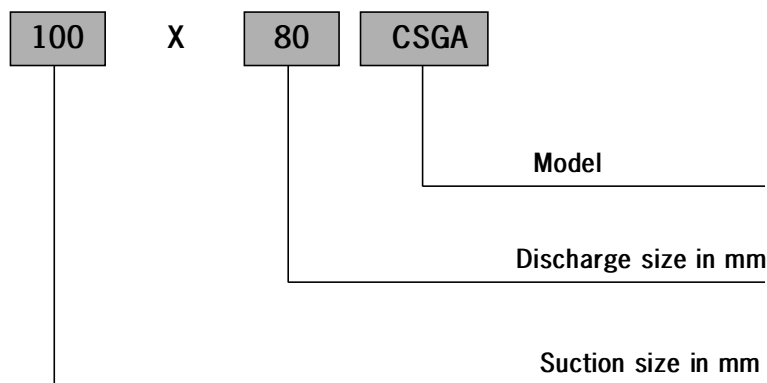
■ Applications

- Building
 - Water Supply
 - Drainage
 - Water Circulation
 - Fire Fighting
- Irrigation
 - Water Supply
 - Drainage
- Water Work
 - Water intake
 - Booster
 - Water Supply
- Industrial use
 - Water intake
 - Booster
 - Circulation
 - Drainage
 - Chemical

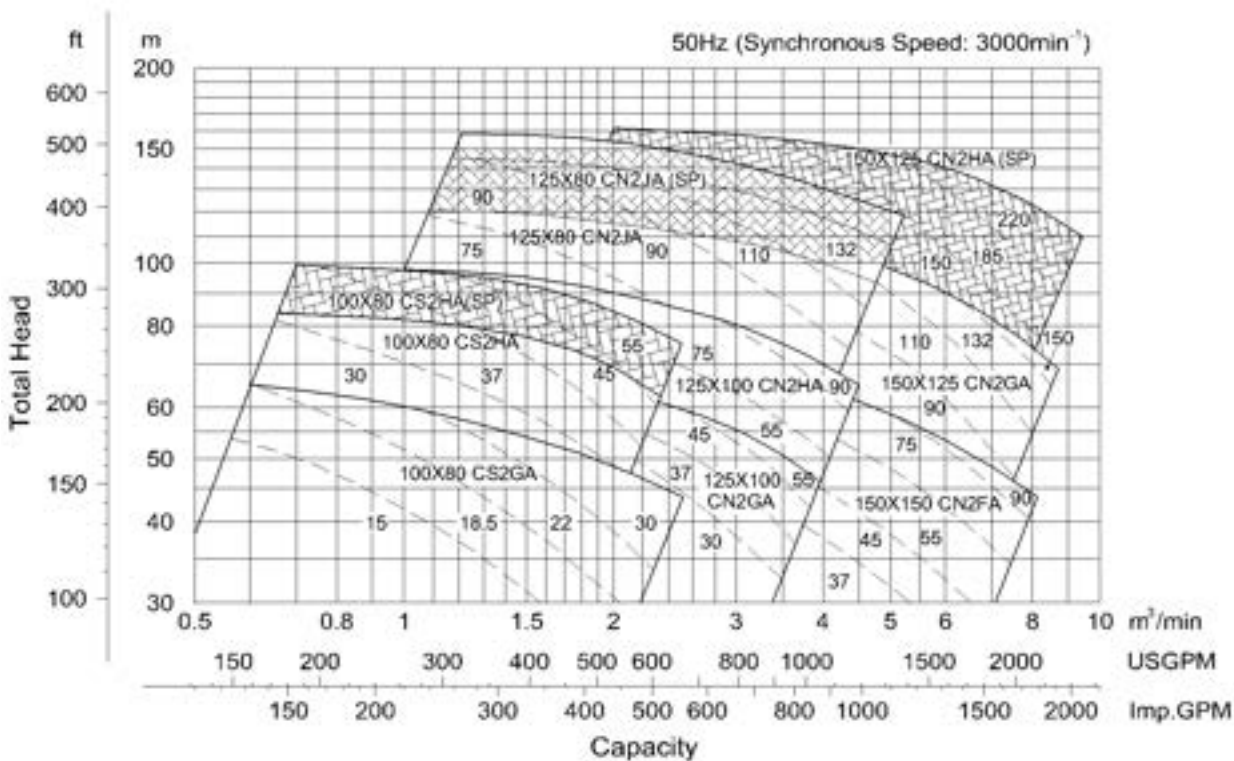
• Selection Chart - 4 Poles



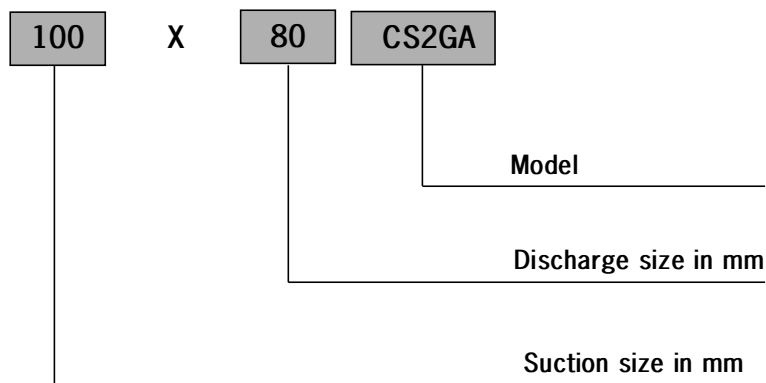
Model Code - 4 Poles



- Selection Chart - 2 Poles



Model Code - 2 Poles



Specification

50 Hz

- Pump

Model		Standard	Optional
		CSA/CNA	
Liquid Handled	Type of liquid	Fresh 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	20 bar, 25 bar
Installation		Indoor/ Outdoor	
Construction	Shaft Seal	Mechanical seal	Gland packing, Mechanical Seal with sleeve
	Bearing	Circle type ball bearing unit with sleeve	
	Lubrication	Grease	
Material	Casing	Cast Iron (FC250)	Ductile Cast Iron (FCD450)
	Impeller	Bronze (CAC406) except 250x150 CNKA, and 300x200 CNKA use SCS13	SCS 13, SCS 14
	Shaft	SUS 316 Stainless Steel	SUS 403, SUS 304
	Shaft Sleeve	-	Bronze, SUS 304, SUS 316
	Mechanical Seal	Ceramic - Carbon	SIC-SIC, SIC-Carbon
Flange	Suction	JIS 16K	JIS 10K, JIS 20K, ANSI 125, ANSI 250, DIN PN-16
	Discharge	JIS 16K	JIS 10K, JIS 20K, ANSI 125, ANSI 250, DIN PN-16
Accessories			
Standard		Air vent piping, Flushing water piping, and Lifting bolt.	
Option		Anchor bolt, Pressure gauge, RTD sensor, Tools for pump service.	

- Paint

Part Name	Material (JIS Code)	Standard		Optional Inner Surface
		Inner Surface	Outer Surface	
Casing	Cast Iron (FC)	1 coat of Alkyd primer	Under coat - 1 coat of Alkyd primer	Glass Flake Coatings, or epoxy
Side Cover	Cast Iron (FC)		Finish coat - 1 coat of Alkyd resin based enamel	
Bearing Support (Gland packing Type)			-	
Common Base	Steel	Under coat - 1 coat of Alkyd primer Finish coat - 1 coat of Alkyd resin based enamel		-

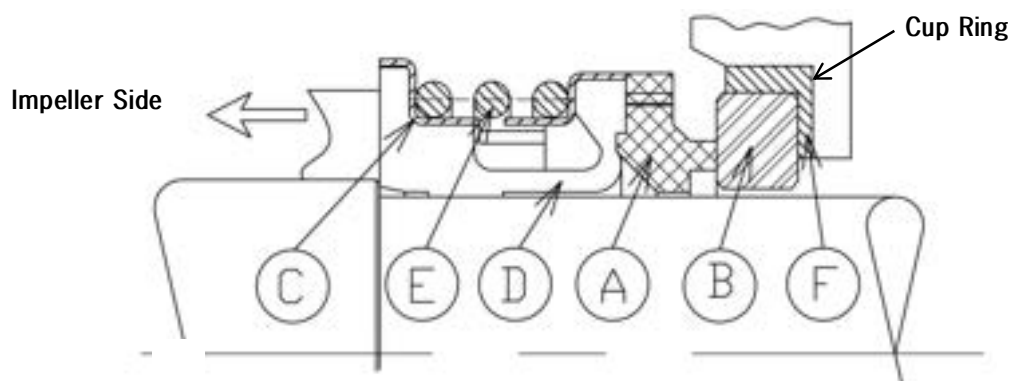
Allowable Pressure and Materials

50 Hz

Model	Allowable Pressure for Casing					Material		
	Hydr o Test Press	Max. Working Pressure Standard		Max. Suction Pressure		Casing	Impeller	Shaft
	kg	kg	psi	kg	psi		Standard	Standard
100 x 80 CSGA	24	16	230	10	143	Cast Iron	Bronze	Stainless Steel
100 x 80 CSHA								
100 x 80 CSJA								
125 x 100 CSJA								
125 x 100 CNGA	24	16	230	10	143	Cast Iron	Bronze	Stainless Steel
125 x 100 CNHA								
125 x 80 CNJA								
150 x 150 CNFA								
150 x 125 CNGA	24	16	230	10	143	Cast Iron	Bronze	Stainless Steel
150 x 125 CNHA								
150 x 100 CNJA								
200 x 200 CNEA								
200 x 150 CNFA	24	16	230	10	143	Cast Iron	Bronze	Stainless Steel
200 x 150 CNGA								
200 x 150 CNHA								
200 x 100 CNJA								
250 x 200 CNEA	24	16	230	10	143	Cast Iron	Bronze	Stainless Steel
250 x 200 CNFA								
250 x 150 CNGA								
250 x 150 CNHA								
250 x 150 CNJA								
250 x 150 CNKA							Stainless Steel	
300 x 250 CNEA	24	16	230	10	143	Cast Iron	Bronze	Stainless Steel
300 x 200 CNFA								
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							Stainless Steel	
350 x 300 CNFA	24	16	230	10	143	Cast Iron	Bronze	Stainless Steel
350 x 250 CNGA								
350 x 250 CNHA								
400 x 350 CNEA	24	16	230	10	143	Cast Iron	Bronze	Stainless Steel
400 x 350 CNFA								
400 x 300 CNGA	24	16	230	10	143	Cast Iron	Bronze	Stainless Steel
400 x 300 CNHA	24	16	230	10	143	Cast Iron	Bronze	Stainless Steel

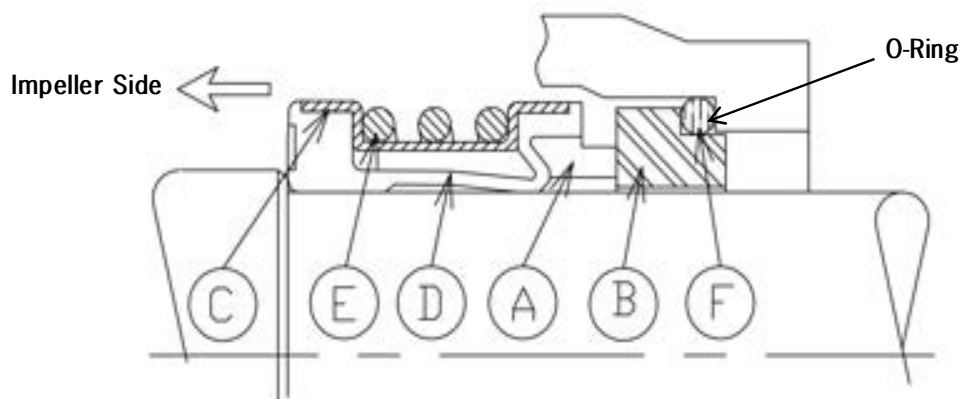
Model	Mechanical Seal				Side Cover O-Ring			
	Driver (CP) Side		Opposite (CCP) Side					
	Type	Size	Type	Size	Size			
100 x 80 CSGA	T2100/BR1C1/M	35	T2100/BR1C1/M	35	145			
100 x 80 CSHA								
100 x 80 CSJA		45		180				
125 x 100 CSJA								
125 x 100 CNGA	T2100/BR1C1/M	45	T2100/BR1C1/M	35	150			
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				65	55	230		
200 x 100 CNJA	T2100/BR1C1/M	45	T2100/BR1C1/M	35	195			
250 x 200 CNEA						55	45	205
250 x 200 CNFA								
250 x 150 CNGA		75		65	260			
250 x 150 CNHA						85	75	275
250 x 150 CNJA								
250 x 150 CNKA	T2100/BR1C1/BS	85	T2100/BR1C1/BS	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	275			
300 x 250 CNFA	T2100/BR1C1/M	65	T2100/BR1C1/M	55	230			
300 x 250 CNGA	T2100/BR1C1/BS	75		65	260			
300 x 250 CNHA		85		75	275			
300 x 200 CNJA								
300 x 200 CNKA	T2100/BR1C1/BS	95	T2100/BR1C1/BS	85	290			
350 x 300 CNFA		75		T2100/BR1C1/M	65	260		
350 x 250 CNGA		75		T2100/BR1C1/M	65	290		
350 x 250 CNHA	T2100/BR1C1/BS	85	T2100/BR1C1/BS	75	290			
400 x 350 CNEA		75	T2100/BR1C1/M	65	275			
400 x 350 CNFA		85	T2100/BR1C1/BS	75	290			
400 x 300 CNGA	T2100/BR1C1/BS	95	T2100/BR1C1/BS	85	310			
400 x 300 CNHA		95	T2100/BR1C1/BS	85	330			

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		65		55			
200 x 150 CNHA	T2100/BR1C1/BS	75		65	230	75	65
200 x 100 CNJA		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	T2100/BR1C1/BS	75	T2100/BR1C1/BS	65	230	75	65
250 x 150 CNHA		85		75	260	85	75
250 x 150 CNJA		100		90	275	100	90
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	T2100/BR1C1/BS	75		65	230	75	65
300 x 200 CNGA		85	75	260	85	75	
300 x 200 CNHA		100	90	275	100	90	
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		100			290	100	90
350 x 250 CNHA				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
A	Face/Primary Ring	Carbon	1
B	Cup Gasket	NBR	1
C	Drive Band	Stainless Steel	1
D	Bellows	Nitrilie	1
E	Spring	Stainless Steel	1
F	Cup Ring	Nitrilie	1

Cup ring type seat ring is available on mechanical seal dia. 35 - 65mm



Part No.	Part Name	Material	Qty/unit
A	Face/Primary Ring	Carbon	1
B	Seat/Mating Ring	Ceramic	1
C	Drive Band	Stainless Steel	1
D	Bellows	Nitrilie	1
E	Spring	Stainless Steel	1
F	O-Ring	Nitrilie	1

O-ring type seat ring is available on mechanical seal dia. 75 - 95mm

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

Impeller

50 Hz

Model	Impeller Data							
	Impeller Dia.		Casing Ring		Total Eye Area (cm ²)	❖ GD ² (kg m ²)	No. of Vanes	Weight Approx. (kg)
	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			284.2	0.8		13.3
200 x 150 CNGA	307	254	188	0.340 - 0.482	306.8	1.0		15.4
200 x 150 CNHA	373	307			331.4	2.9		20.2
200 x 100 CNJA	461	373	200	0.340 - 0.482	356.6	3.6	5	32
250 x 200 CNEA	244	205	188		349.4	0.7		12.2
250 x 200 CNFA	285	244	200		357.6	1.3		16.8
250 x 150 CNGA	344	285			386	1.9		21.1
250 x 150 CNHA	418	344	212	0.380 - 0.522	417.2	3.3	5	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	5	76
300 x 250 CNEA	274	230	200	0.340 - 0.482	417.6	1.3		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	330	280		836.3	7.6		50
400 x 300 CNGA	454	-	297	0.540 - 0.751	-	-	5	56.8
400 x 300 CNHA	546	-	315	0.540 - 0.670	-	-	5	74.5

❖ Including GD2 of coupling.

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

Bearing and Shaft

50 Hz

Model	Bearing		❖ Grease Replenishment		Shaft Data			
	Driver (CP) Side	Opposite (CCP) Side	CP SIDE	CCP SIDE	Approx. Wt.	Max. HP per 1000rpm	Shaft Dia. Coupling	Shaft Dia. Impeller
			(gr)	(gr)	(kg)	(HP)	(mm)	(mm)
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							3	50
125 x 80 CNJA						6.4	8	
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 214C	UCFC 212E	13.6	10	27.3	136	65	80
250 x 150 CNKA	CUCFC 216C	UCFC 214CE	18.8	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	CUCFC 214C	UCFC212E	13.6	10	27.3	136	65	80
300 x 150 CNJA	CUCFC 216C	UCFC 214CE	18.8	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	CUCFC 216C	UCFC 214CE	18.8	13.6	38	209	75	90
300 x 200 CNKA	CUCFC 218C	UCFC 216CE	28	18.8	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	18.8	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	18.8	13.6	48	209	75	90
400 x 300 CNGA	CUCFC 218C	UCFC 216CE	28	18.8	56	-	85	100
400 x 300 CNHA	CUCFC 218C	UCFC 216CE	28	18.8	56	-	85	100

❖ Replenishment: Continuous operation 4300 hours.

Coupling (1/4)

50 Hz

- 4 - Poles (1500 rpm)

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

- **4 - Poles (1500 rpm)**

Model	MOTOR		SHAFT DIAMETER		COUPLING CLA
	POWER	FRAME	MOTOR	PUMP	
	kW	No.	mm	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			250
	55	250SC			
250 x 150 CNHA	55	250SC	70	55	250
	75	250MC			280
	90	280SC			
250 x 150 CNJA	75	250MC	70	65	250
	90	280SC	80		280
	110	280MC			85
	132	315SC	315		
	150	315MC			
250 x 150 CNKA	110	280MC	80	75	280
	132	315SC	85		315
	150	315MC			
	185	315MB			355
	220	315AB	95		
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			250
	55	250SC			
300 x 200 CNGA	55	250SC	70	55	250
	75	250MC			280
	90	280SC			
300 x 200 CNHA	90	280SC	80	65	280
	110	280MC			85
	132	315SC	315		
	150	315MC			
300 x 150 CNJA	150	315MC	85	75	315
	185	315MB			95
	220	315AB	355		
	260	315CB			
	300	315CB			
300 x 250 CNFA	37	225SC	60	55	224
	45	225MC			70
	55	250SC	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			

Coupling (3/4)

50 Hz

- 4 - Poles (1500 rpm)

Model	MOTOR		SHAFT DIAMETER		COUPLING CLA
	POWER	FRAME	MOTOR	PUMP	
	kW	No.	mm	Mm	
300 x 200 CNJA	150	315MC	85	75	315
	185	315MB			
	220	315AB	95		355
	260	315CB			
	300	315CB			
300 x 200 CNKA	220	315AB	95	85	355
	260	315CB			
	300	315CB			
	335	315DB			
	375	355AB			
	450	355CB			
350 x 300 CNFA	75	250MC	70	65	250
	90	280SC	80		280
	110	280MC			
	132	315SC	85		315
350 x 250 CNGA	110	280MC	80	65	280
	132	315SC	85		315
	150	315MC			
	185	315MB			
350 x 250 CNHA	185	315MB	85	75	315
	220	315AB	95		355
	260	315CB			
	300	315CB			
	335	315DB			
400 x 350 CNEA	90	280SC	80	65	280
	110	280MC			
	132	315SC	85		315
	150	315MC			
400 x 350 CNFA	132	315SC	85	75	315
	150	315MC			
	185	315MB			
	220	315AB	95		355
400 x 300 CNGA	-	-	-	-	-
400 x 300 CNHA	-	-	-	-	-

- 2 - Poles (3000 rpm)

Model	MOTOR		SHAFT DIAMETER		COUPLING CLA
	POWER	FRAME	MOTOR	PUMP	
	kW	No.	mm	mm	
100x80 CSGA	15	160M	42	28	160
	18.5	160L			180
	22	180MA	48		200
	30	200LA	55		
100x80 CSHA	30	200LA	55	28	200
	37	200LA			
	45	225MA			
	55	250SA	60		224
125x100 CNGA	30	200LA	55	38	200
	37	200LA			
	45	225MA			
	55	250SA	60		224
125x100 CNHA	45	225MA	55	38	200
	55	250SA	60		224
	75	250MA			250
	90	280SA	65		
125x80 CNJA	75	250MA	60	38	224
	90	280SA	65		250
	110	280MA			
	132	315SA			
150x150 CNFA	45	225MA	55	38	200
	55	250SA	60		224
	75	250MA			250
	90	280SA	65		
150x125 CNGA	90	280SA	65	48	250
	110	280MA			
	132	315SA			
	150	315MA			
150x125 CNHA	150	315MA	65	48	250
	185	315MA	85		315
	220	355MA	100		355

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	1	8,000
051-1, 051-2	Bearing Unit	—	1 Set	3	25,000
107 or 107-1 & 104-2	Casing Wear Rings	Bronze	1 Set	2	16,000
111-1, 111-2	Mechanical Seal	—	1 Set	1	8,000
119-1, 119-2	Gland Packings	Carbonized Fiber	1 Set		8,000
117-01	Gasket (Casing)	Compressed Fiber Non 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.

Inspection 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 certificate is to be submitted
Hydrostatic test	*3	EN	Hydrostatic test is to be performed on casing using fresh water at normal temperature. Retention time of water pressure is 3 minutes for Cast Iron	CR	Hydrostatic test record is to be submitted
Balancing test	*3	EN	Impeller is to be subject to balancing test	CR	Impeller balancing test record
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. Judgment is to be based on JIS Testing Code B8301 Grade 2	CR	Judgment is to be based on following standards. * JIS Testing Code B8301 Grade 1 * ISO 9906: 2012 Grade 1, 2, 3 (as requested by customer)
Bearing Vibration	*4	EN	Vibration is to be measured on bearing housing at rated capacity. Judgment is to be based on JIS Testing Code B8301	CR	Measured record is to be submitted
Performance test Bearing Temperature		EN	Temperature is to be measured at saturated point of the temperature increase. Judgment is to be based on JIS Testing Code B8301	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 method of Pump Discharge "

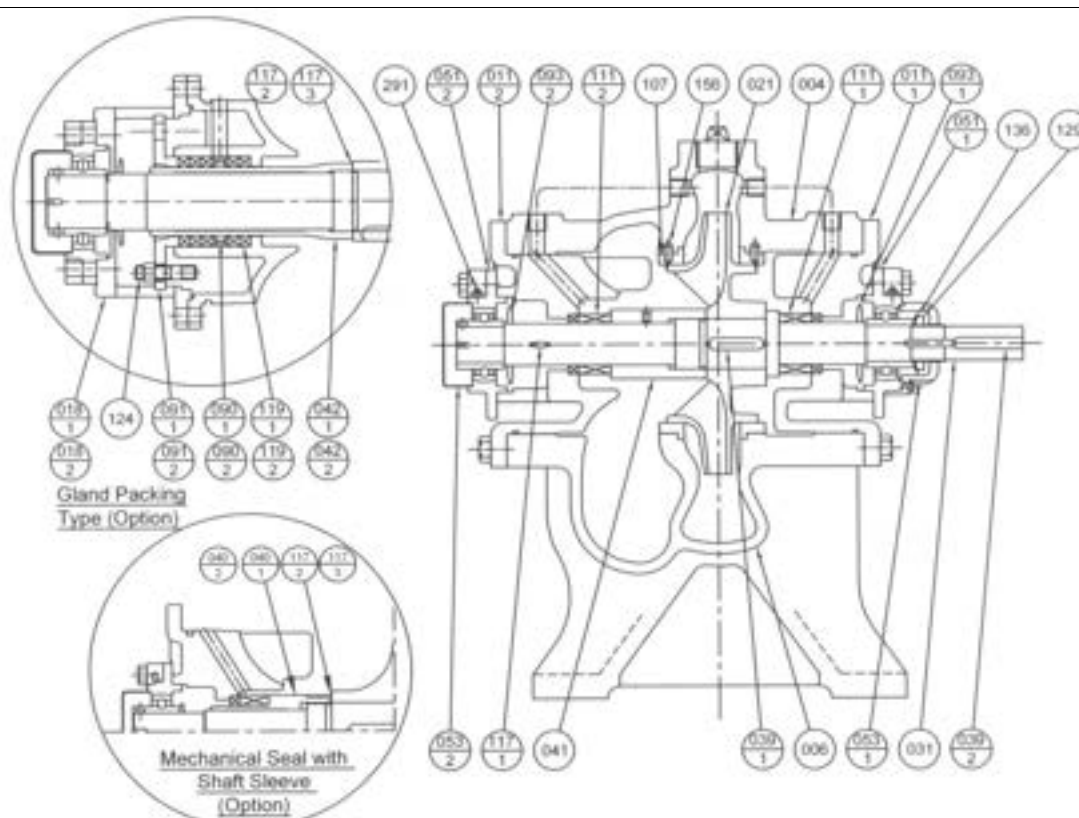
*2 Measured Value on pump noise is considered as reference value because its include background noise effect of motor, discharge valve, etc. Its suggested to check directly at site.

*3 Judgement is based on Ebara Standard.

*4 The measured value on vibration is considered as reference value, because the test bench condition is not designed with anti-vibration area. Its suggested to check directly at site.

Sectional View - CSA

50 Hz



Gland Packing Type (Option)

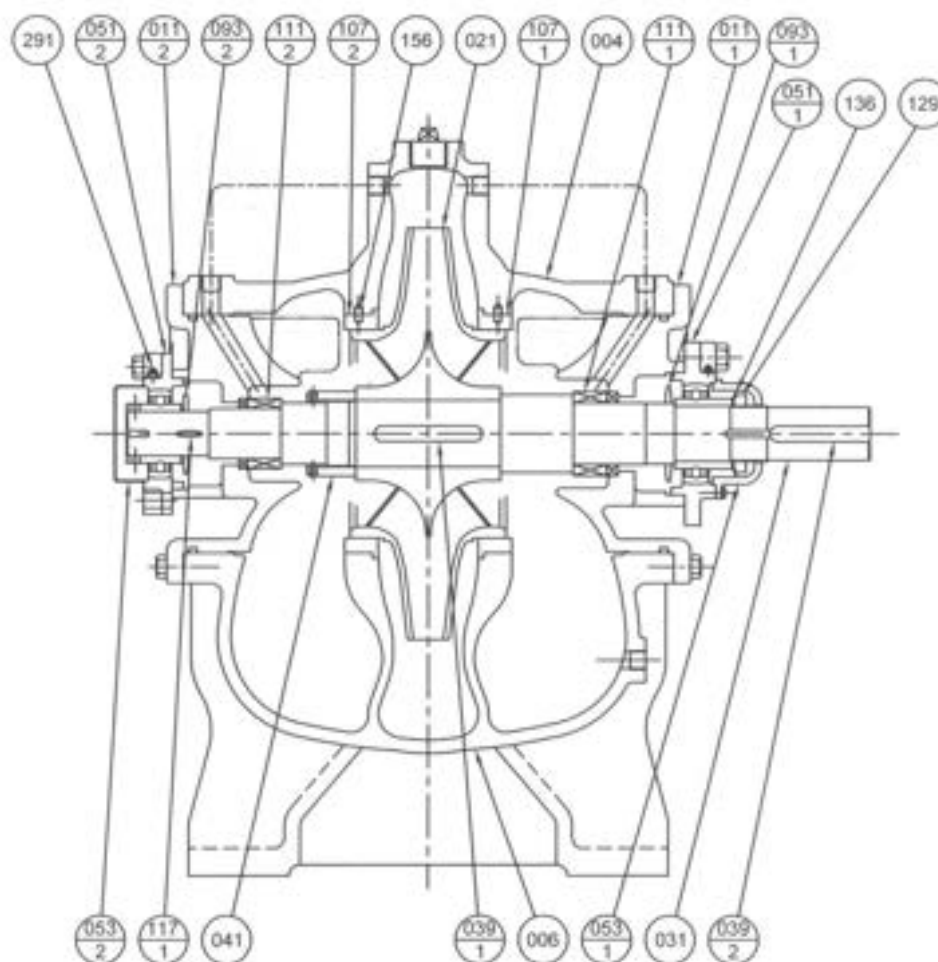
042-2	Shaft Sleeve CCP Side	CAC406	1	119-2	Gland Packing CCP Side	Carbonized Fiber	5
042-1	Shaft Sleeve CP Side			119-1	Gland Packing CP Side	Carbonized Fiber	5
018-2	Bearing Support CCP side	FC 200	1	090-2	Lantern Ring CCP Side	CAC406	1
018-1	Bearing Support CP Side			090-1	Lantern Ring CP Side		
091-2	Gland CCP Side	C3604BD-F	4	091-2	Gland CCP Side	CAC406	1
124	Gland Bolt			091-1	Gland CP Side	CAC406	1

Mechanical seal with shaft sleeve (Option)

040-2	Shaft Sleeve CCP Side	CAC406	1	117-3	Sleeve Gasket CCP Side	Compressed Fiber	1
040-1	Shaft Sleeve CP Side		1	117-2	Gland Packing CP Side	Non-Asbestos	1

Mechanical Seal Type (Standard)

051-2	Bearing Unit CCP Side	-	1	291	Grease Nipple	C3604BD-F	2
051-1	Bearing Unit CP Side			156	Lock Pin	SUS304	
041	Impeller Nut	CAC406	1	136	Bearing Washer	SS400	1
039-2	Coupling Key	S50C	1	129	Bearing Nut		
039-1	Impeller Key		1	117-1	Gasket (Casing)	Compressed Fiber Non-Asbestos	
031	Shaft	316 stainless steel	1	111-2	Mechanical Seal (CCP Side)	-	
021	Impeller	CAC406	1	111-1	Mechanical Seal (CP Side)	-	2
011-2	Side Cover CCP Side	FC250		107	Casing Wear Ring	BC6	
011-1	Side Cover CP Side			093-2	Deflector (CCP Side)	Rubber	1
006	Casing Lower Half			093-1	Deflector (CP Side)		
004	Casing Upper Half			053-2	Bearing Cover (CCP Side)	FC200	
		053-1	Bearing Cover (CP Side)				
No.	Part Name	Material	Qty	No.	Part Name	Material	Qty

**Mechanical Seal Type (Standard)**

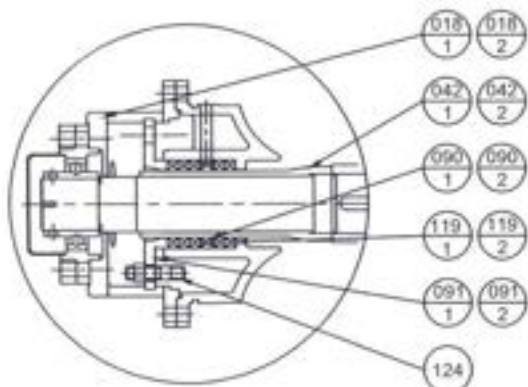
051-2	Bearing Unit (CCP Side)	FC200	1	291	Grease Nipple	C3604BD-F	2
051-1	Bearing Unit (CP Side)			156	Lock Pin	SUS304	1
041	Impeller Nut	BC6		136	Bearing Washer	SS400	
039-2	Coupling Key	S50C		129	Bearing Nut		
039-1	Impeller Key	316 Stainless Steel		117-1	Gasket (Casing)	V#6500	
031	Shaft			111-2	Mechanical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

Sectional View - CNA (2/2)

50 Hz

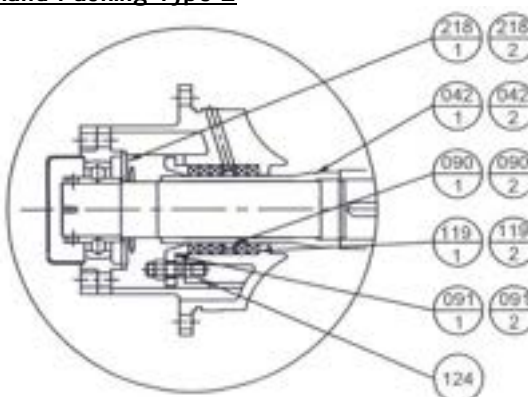
Mechanical Seal with Shaft Sleeve Type

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

Gland Packing Type 1

No.	Part Name	Material	Qty
018-1	Bearing Support (CP Side)	FC200	1
018-2	Bearing Support (CCP Side)		
042-1	Shaft Sleeve (CP Side)	BC6	1
042-2	Shaft Sleeve (CCP Side)		
090-1	Lantern Ring (CP Side)	BC6	1
090-2	Lantern Ring (CCP Side)		
091-1	Gland (CP Side)		
091-2	Gland (CCP Side)		
119-1	Gland Packing (CP Side)	Carbonized Fiber	5
119-2	Gland Packing (CCP Side)		5
124	Gland Bolt (CP & CCP Side)	C3604BD-F	4

All models, except Gland Packing type 2 below

Gland Packing Type 2

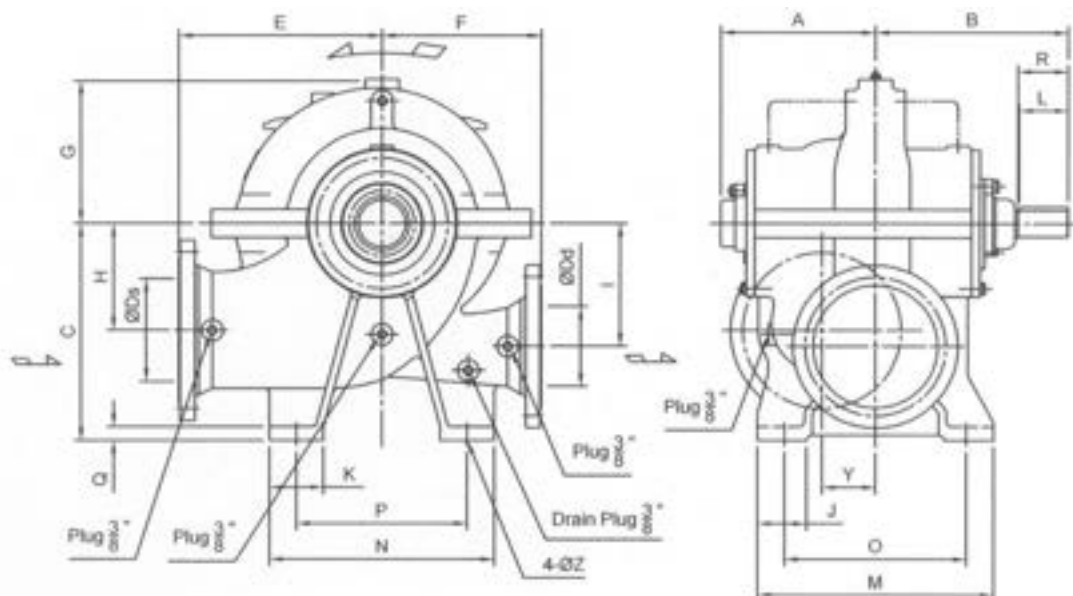
No.	Part Name	Material	Qty
042-1	Shaft Sleeve (CP Side)	BC6	1
042-2	Shaft Sleeve (CCP Side)		
090-1	Lantern Ring (CP Side)	BC6	1
090-2	Lantern Ring (CCP Side)		
091-1	Gland (CP Side)		
091-2	Gland (CCP Side)		
119-1	Gland Packing (CP Side)	Carbonized Fiber	5
119-2	Gland Packing (CCP Side)		5
124	Gland Bolt	C3604BD-F	4
218-1	Bearing Cover Plate (CP Side)	FC150	1
218-2	Bearing Cover Plate (CCP Side)		

Model :

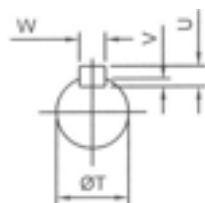
- 250x150 CNKA
- 300X150 CNJA
- 300X200 CNJA
- 300X200 CNKA
- 350X300 CNFA
- 350X250 CNGA
- 350X250 CNHA
- 400X350 CNEA
- 400X350 CNFA

Part No.	Part Name	Expected Life	Qty / Unit
		Year	
042-1, 042-2	Shaft Sleeves (Packing)	1	1 Set
040-1, 040-2	Shaft Sleeves (Mechanical Seal)		1 Set
051-1, 051-2	Bearing Unit	3	1 Set
107 or 107-1 & 107-2	Casing Wear Rings	2	1 Set
111-1, 111-2	Mechanical Seals	1	1 Set
119-1, 119-2	Gland Packings	1	1 Set
117-01	Gasket (Casing)	When the part is disassembled	1 Set
117-02, -03	Gasket (Sleeve)		
	Coupling Rubber	2	1 set

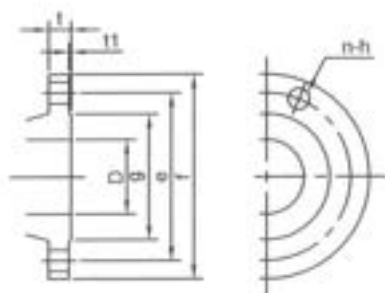
Pump



Shaft End



Flange



Dimension - Flange

D mm	f mm	e mm	g mm	t1 mm	t mm	n	h mm
80	200	160	132	2	24	8	23
100	225	185	160	2	26	8	23
125	270	225	195	2	26	8	25

Dimension - Pump

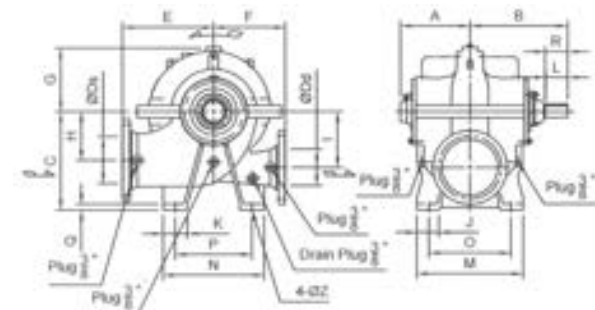
Model	Size		Pump																	Shaft						Weight
	Ds	Dd	A	B	C	E	F	G	H	I	J	K	M	N	O	P	Q	Y	Z	L	R	T	U	V	W	kg
100x80 CSGA	100	80	221	250	295	270	240	169	140	140	60	70	300	290	250	230	20	70	19	56	81	28	8	5	10	143
100x80 CSHA						280	220	185	150	160											165					
100x80 CSJA						230	202	160	180	200																
125x100 CSJA	125	100	247	325	375	350	280	263	200	230	90	100	430	400	350	300	25	80		80	101	38			12	280

Dimensions - Bare Shaft Pump CNA

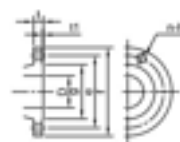
50 Hz

(Standard: Mechanical Seal Type)

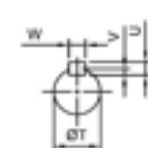
■ Pump



■ Flange



■ Shaft



D mm	f mm	e mm	g mm	t1 mm	t mm	n	h mm
80	200	160	132	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

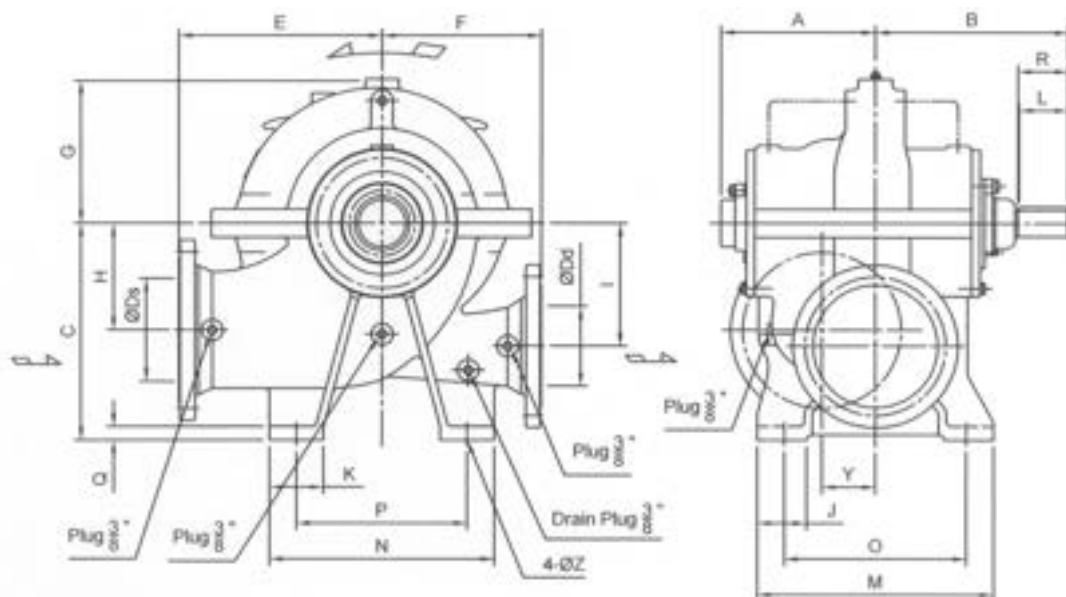
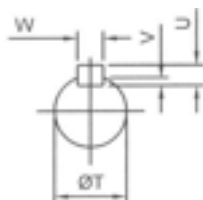
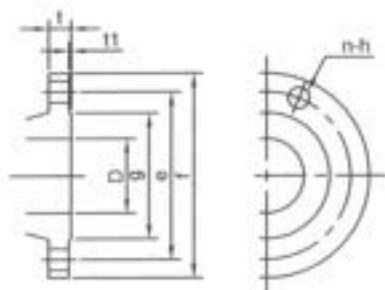
Dimension - Pump

Model	Size		Pump																	Shaft							Weight							
	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	kg								
125x100 CNGA	125	100	231	350	295	290		181		150	60	70	300	290	250	230	20	-	19	80	103	38	8	5	10	209								
125x100 CNHA						300	250	195	150	160																242								
125x80 CNJA	125	80				330		226		190	70	80	340	320	280	250										250								
150x150 CNFA	150	150	262	370	355	330	290	205	180	170	80	90	380	360	310	270	25	-	19	80	100	38	8	5	10	253								
150x125 CNGA			271	395				260	224											190		90	120	48	9	5.5	14	275						
150x125 CNHA		125	262	370			350	280	243	190										210		80	100	38	8	5	10	270						
150x125 CNHA*			270*	395*																		95*	104*	48*	9*	5.5*	14*	-						
150x100 CNJA		100	271	395	390	380	290	269		240	90	100	430	400	350	300				90	120	48	9	5.5	14	330								
200x200 CNEA	200	200					300	223	190	190	90	100	430	400	350	300	25	-	19	80	99	38	8	5	10	270								
200x150 CNFA		150	263	370	375	355		224												210		90	109	48	9	5.5	14	280						
200x150 CNGA							285		245																		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	127	55	10	6	16	445								
250x200 CNEA	250	200	273		425			243	210	210	100	110	480	450	390	340	25	-	24	80	114	38	8	5	10	360								
250x200 CNFA				395			395	315												247		240		90	109	48	9	5.5	14	380				
250x150 CNGA		150	282					276		240																		415						
250x150 CNHA			315	450	445	430	325	299	220	260																		500						
250x150 CNJA	350		500	495	470	355	346		300	110	120	550	520	450	400	30		24	110	135	65	11	7	18	605									
250x150 CNKA			382	530	500	500	430	405	290	345									125	144	75	12	7.5	20	835									
300x250 CNEA	300	250	302	415	475	445	355	274	235	235	110	120	550	520	450	400	30	-	24	90	108	48	9	5.5	14	435								
300x200 CNFA				315				450												280				100	118							490		
300x200 CNGA		200	315	470	495	445	355	300		270																		520						
300x200 CNHA			350	500		465	365	332		290																		625						
300x150 CNJA		150	382	530	500	520		384	250	335	110	120	550	520	450	400	30		24	125	144	75	12	7.5	20	785								
300x250 CNFA		250	335	470	495	405		306		260										100	120	55	10	6	16	570								
300x250 CNGA			360	500						313												110	126	65	11	7	18	620						
300x250 CNHA								337		295											125	144	75	12	7.5	20	860							
300x200 CNJA		200	382	530	500	525	415	379	275	320										125	144	75	12	7.5	20	860								
300x200 CNKA			415	585	560	570	475	434	290	380	140	150	620	700	500	550	35	-	26	140	160	85	14	9	22	1070								
350x300 CNFA	350	300					450	342		310	130	150	620	700	500	550	38	-	26	110	129	65	11	7	18	800								
350x250 CNGA		250	386	530	600	560	447	348	310	303																		125	143	75	12	7.5	20	790
350x250 CNHA			414	560				440	376	315	330									135	125	143	75	12	7.5	20	845							
400x300 CNGA	400	300	457	630	630	625	510	390	315	380	150	150	700	700	550	550	38	-	26	140	165	85	14	9	22	1030								
400x300 CNHA				456	630	660	620	530	417	350	400									150									140	165	85	14	9	22
400x350 CNEA			350	462	600	630	620	470	357	325	335	140									110	133	65	11	7	18	1030							
400x350 CNFA		350	439	585			625	510	380	305	344	150									125	143	75	12	7.5	20	1035							

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	132	2	24	8	23
100	225	185	160	2	26	8	23
125	270	225	195	2	26	8	25

Dimension - Pump

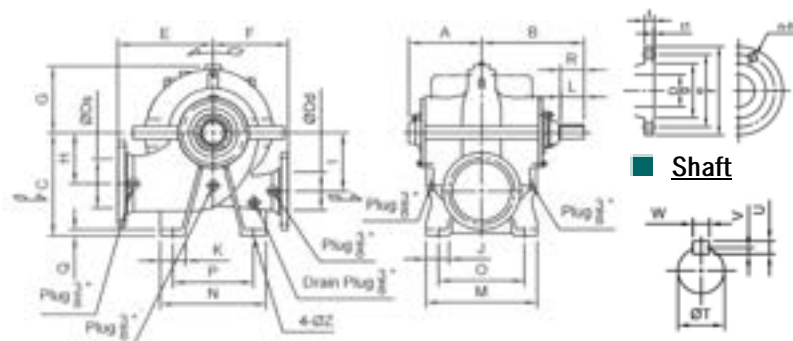
Model	Size		Pump																	Shaft						Weight
	Ds	Dd	A	B	C	E	F	G	H	I	J	K	M	N	O	P	Q	Y	Z	L	R	T	U	V	W	kg
100x80 CSGA	100	80	221	285	295	270	240	169	140	140	60	70	300	290	250	230	20	70	19	56	81	28	8	5	10	143
100x80 CSHA						280	220	185	150	160											165					
100x80 CSJA						230	202	160	180	200																
125x100 CSJA	125	100	247	325	375	350	280	263	200	230	90	100	430	400	350	300	25	80		80	101	38			12	280

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	132	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

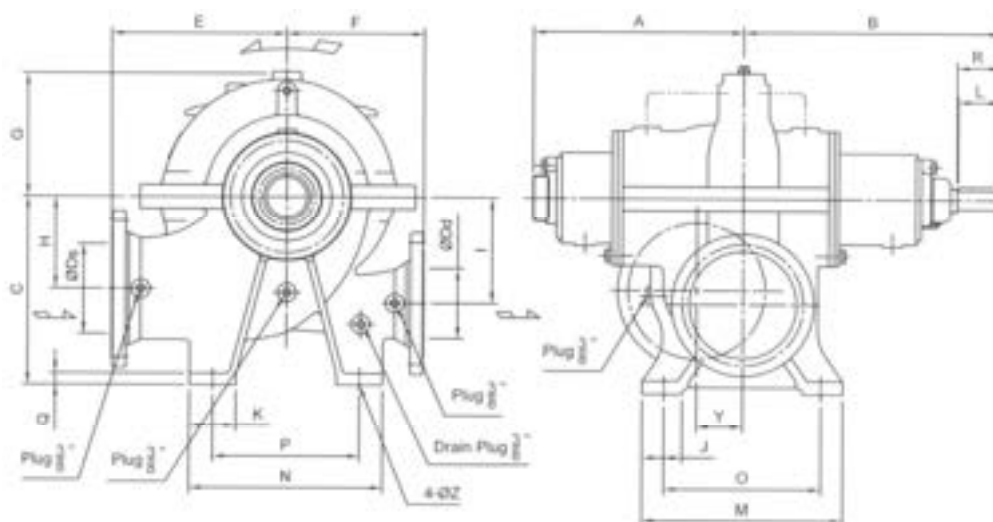
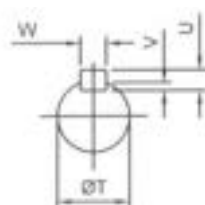
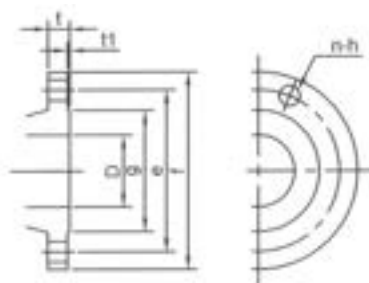
Model	Size		Pump																	Shaft						Weight										
	Ds	Dd	A	B	C	E	F	G	H	I	J	K	M	N	O	P	Q	Y	Z	L	R	T	U	V	W	kg										
125x100 CNGA	125	100	231	350	295	290		181		150	60	70	300	290	250	230	20	-	19	80	103	38	8	5	10	209										
125x100 CNHA						300	250	195	150	160																242										
125x80 CNJA	125	80				330		226		190	70	80	340	320	280	250										250										
150x150 CNFA	150	125	150	262	370	355	330	290	205	180	170	80	90	380	360	310	270	25	-	19	80	100	38	8	5	10	253									
150x125 CNGA				271	395			260	224		190										90	120	48	9	5.5	14	275									
150x125 CNHA				262	370			350	280	243	190										210		80	100	38	8	5	10	270							
150x125 CNHA*				270*	395*																										95*	104*	48*	9*	5.5*	14*
150x100 CNJA			100	271	395	390	380	290	269		240										90	100	430	400	350	300				90	120	48	9	5.5	14	330
200x200 CNEA	200	150	200				300	223		190	190	90	100	430	400	350	300	25	-	19	80	99	38	8	5	10	270									
200x150 CNFA				263	370	375	355		224		190										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	127	55	10	6	16	445
250x200 CNEA	250	150	200	273		425	395	315	243	210	210	100	110	480	450	390	340	25	-	24	80	114	38	8	5	10	360									
250x200 CNFA				282	395		395	315	247		210										90	109	48	9	5.5	14	380									
250x150 CNGA									276		240																								415	
250x150 CNHA				315	450		430	325	299	220	260											100	118	55	10	6	16	500								
250x150 CNJA				350	500	495	470	355	346		300										110	120	550	520	450	400	30			110	135	65	11	7	18	605
250x150 CNKA			382	530	500	500	430	405	290	345										125	144	75	12	7.5	20	835										
300x250 CNEA	300	250	250	302	415	475	445	355	274	235	235									90	108	48	9	5.5	14	435										
300x200 CNFA				315	450			445	355	300		270									100	118	55	10	6	16	490									
300x200 CNGA				315	470	495	445	355	300		270										100	140	55	10	6	16	520									
300x200 CNHA				350	500		465	365	332		290										110	135	65	11	7	18	625									
300x150 CNJA			150	382	530	500	520		384	250	335	110	120	550	520	450	400	30	-	24	125	144	75	12	7.5	20	785									
300x250 CNFA				335	470				306		260										100	120	55	10	6	16	570									
300x250 CNGA					495	405			313		260										110	126	65	11	7	18	620									
300x250 CNHA				360	500		495			337	275	295									110	126	65	11	7	18	615									
300x200 CNJA				382	530	500	525	415	379		320										125	144	75	12	7.5	20	860									
300x200 CNKA																																				
350x300 CNFA			350	250	300				450	342	310	310	130									110	129	65	11	7	18	800								
350x250 CNGA						386	530	600	560		447	348		303		150	620	700	500	550	38	-	26	125	143	75	12	7.5	20	790						
350x250 CNHA		414			560				440	376	315	330	135								125	143	75	12	7.5	20	845									
400x300 CNGA	400	300	457	630	630	625	510	390	315	380	150		700		550		38	-		140	165	85	14	9	22	1030										
400x300 CNHA				456	630	660	620	530	417	350	400	150		700		550		38	-	26	140	165	85	14	9	22	1030									
400x350 CNEA	400	350	462	600	630	620	470	357	325	335	140	150	720	700	590	550	38	-		110	133	65	11	7	18	1030										
400x350 CNFA				439		585	625	510	380	305	344		150		700		550		38	-		125	143	75	12	7.5	20	1035								

* use for Dimension 2 Pole

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	132	2	24	8	23
100	225	185	160	2	26	8	23
125	270	225	195	2	26	8	25

Dimension - Pump

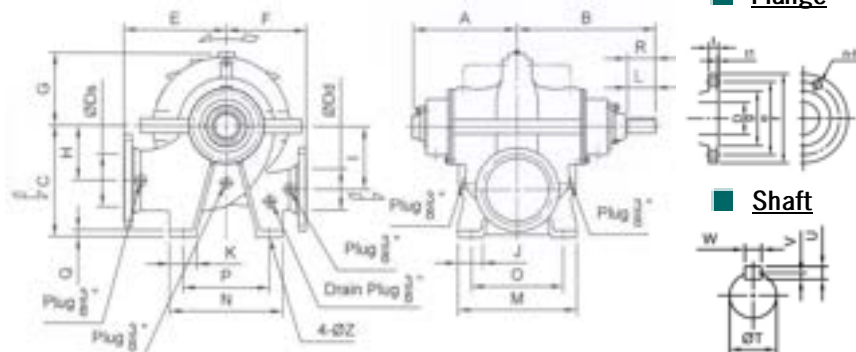
Model	Size		Pump																	Shaft						Weight
	Ds	Dd	A	B	C	E	F	G	H	I	J	K	M	N	O	P	Q	Y	Z	L	R	T	U	V	W	kg
100x80 CSGA	100	80	314	385	295	270	240	169	140	140	60	70	300	290	250	230	20	70	19	56	83	28	8	5	10	143
100x80 CSHA						280	220	185	150	160																165
100x80 CSJA						230	202	160	180	180																200
125x100 CSJA	125	100	340	440	375	350	280	263	200	230	90	100	430	400	350	300	25	80		80	100	38			12	280

Dimensions - Bare Shaft Pump CNA

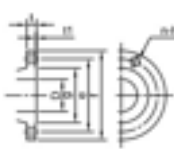
50 Hz

(Optional: Gland Packing Type)

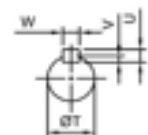
■ Pump



■ Flange



■ Shaft



D mm	f mm	e mm	g mm	t1 mm	t mm	n	h mm
80	200	160	132	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

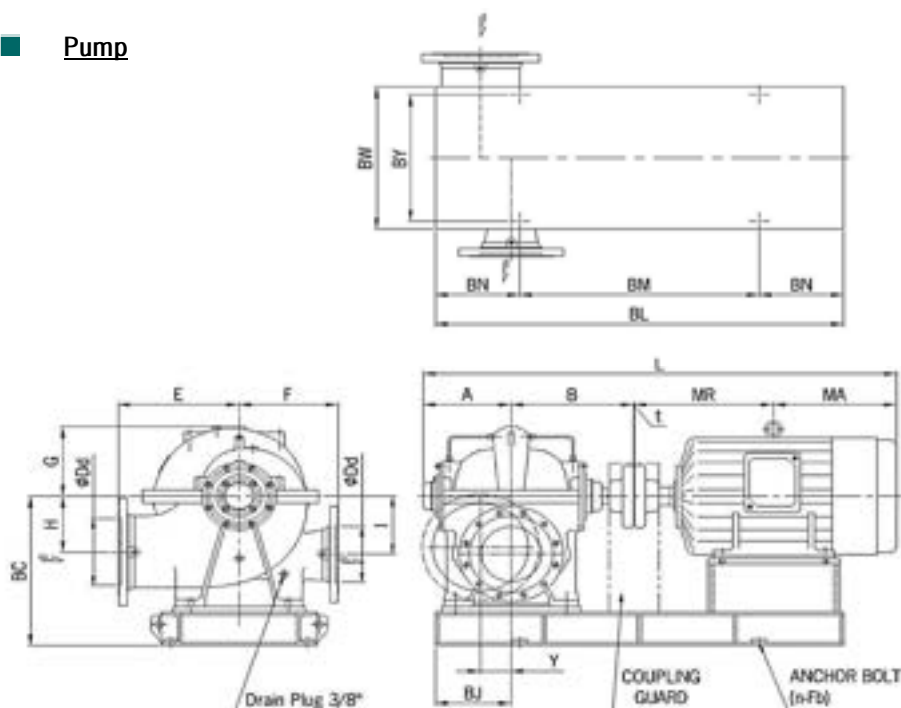
Model	Size		Pump																	Shaft							Weight
	Ds	Dd	A	B	C	E	F	G	H	I	J	K	M	N	O	P	Q	Y	Z	L	R	T	U	V	W	kg	
125x100 CNGA	125	100				290		181		150																215	
125x100 CNHA			326	450	295	300	250	195	150	160	60	70	300	290	250	230	20	-	19	80	116	38	8	5	10	249	
125x80 CNJA		80				330		226		190	70	80	340	320	280	250										258	
150X150 CNFA	150	150	355	475		330	290	205	180	170										80	112	38	8	5	10	260	
150X125 CNGA			364	505	355		260	224		190	80	90	380	360	310	270	25	-	19	90	115	48	9	5.5	14	283	
150X125 CNHA		125	355	475		350	280	243	190	210										80	112	38	8	5	10	278	
150X100 CNJA		100	364	505	390	380	290	269		240	90	100	430	400	350	300				90	115	48	9	5.5	14	340	
200X200 CNEA	200	200				300	223		190	190																278	
200X150 CNFA			356	475	375	355		224			90	100	430	400	350	300	25	-	19	80	111	38	8	5	10	288	
200X150 CNGA		150				285		245		210																319	
200X150 CNHA			381	505	390	375	295	268	200	230										90	119	48	9	5.5	14	366	
200X100 CNJA		100	410	560	445	420	335	309		270	100	110	480	450	390	340			24	100	137	55	10	6	16	458	
250X200 CNEA	250	200	366	475		425		243		210	210									80	101	38	8	5	10	360	
250X200 CNFA			381	505			395	315	247			100	110	480	450	390	340	25	-		90	119	48	9	5.5	14	380
250X150 CNGA					445		276		240										24	100	127	55	10	6	16	415	
250X150 CNHA		150	420	560		430	325	299	220	260										110	129	65	11	7	18	500	
250X150 CNJA			468	610	495	470	355	346		300	110	120	550	520	450	400	30			110	129	65	11	7	18	605	
250X150 CNKA			467	615	500	500	430	405	290	345										125	144	75	12	7.5	20	872	
300X250 CNEA	300	250	401	515		475		274		235	235									90	111	48	9	5.5	14	448	
300X200 CNFA				560		445	355	280												100	127	55	10	6	16	505	
300X200 CNGA		200	420	565				300		270										100	132	55	10	6	16	535	
300X200 CNHA			468	610	495	465	365	332		290										110	129	65	11	7	18	644	
300X150 CNJA		150	467	615	500	520		384	250	335	110	120	550	520	450	400	30	-	24	125	144	75	12	7.5	20	813	
300X250 CNFA			440	575			495		405	306										100	122	55	10	6	16	587	
300X250 CNGA		250	478	620		495		313		260										110	129	65	11	7	18	638	
300X250 CNHA				520				337		295										110	129	65	11	7	18	632	
300X200 CNJA		200	467	615	500	525	415	379		320										125	144	75	12	7.5	20	900	
300X200 CNKA			505	675	560	570	475	434	290	380	140	150	620	700	500	550	35	-	26	140	160	85	14	9	22	1118	
350X300 CNFA	350	300	481	613			450	342	310	130										110	129	65	11	7	18	836	
350X250 CNGA		250			600	560	447	348	310	303	135	150	620	700	500	550	38	-	26	125	144	75	12	7.5	20	823	
350X250 CNHA			497	645			440	376	315	330										125	144	75	12	7.5	20	885	
400X350 CNEA	400	350	548	685		620	470	357	325	335	140	150	720	700	590	550	38	-	26	110	136	65	11	5	18	1062	
400X350 CNFA			522	670	630	625	510	380	305	344	150			700	550	550	38	-	26	125	144	75	12	7.5	20	1076	

* use for -Dimension 2 Pole

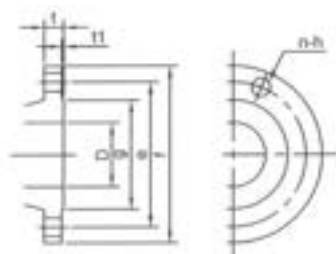
Dimensions - CSA Pump with Motor 4 - Poles Drive (Standard: Mechanical Seal Type)

50 Hz

Pump



Flange



Dimension - Flange

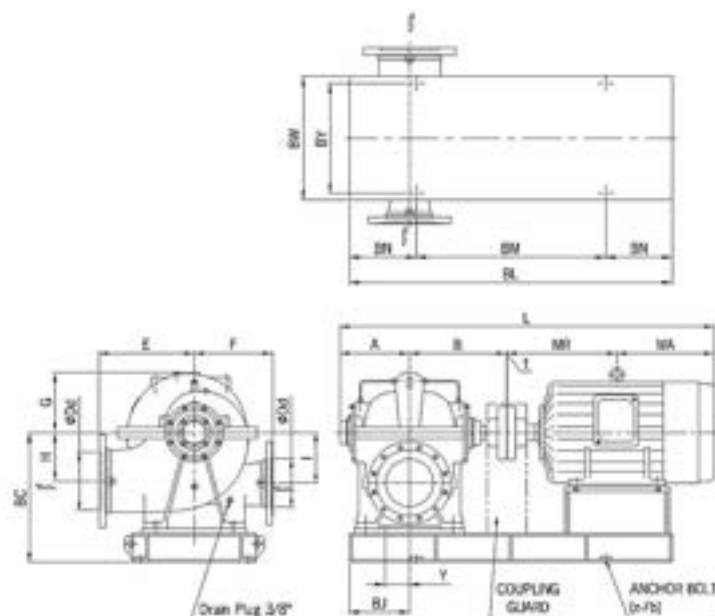
D mm	f mm	e mm	g mm	t1 mm	t mm	n	h mm
80	200	160	132	2	24	8	23
100	225	185	160	2	26	8	23
125	270	225	195	2	26	8	25

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	2.2	100	80	221	250	270	240	169	140	140	70	143	100L	193	181.5	32	411	170	740	440	150	380	330	4-M16	50	3	848.5	225	
	3.7												112M	200	191.5	43									54		865.5	240	
100 x 80 CSHA	3.7	100	80	221	250	280	220	185	150	160	70	165	112M	200	191.5	43	411	170	740	440	150	380	330	4-M16	54	3	865.5	262	
	5.5												132S	239	215	63									42		928	270	
	7.5												132M	258	234	77									47		966	285	
100 x 80 CSJA	5.5	100	80	221	250	280	230	202	160	180	70	200	132S	239	215	63	411	170	780	480	150	380	330	4-M16	42	3	928	305	
	7.5												132M	258	234	77									47		966	324	
	11												160M	323	285	115									53		1082	368	
125 x 100 CSJA	15	125	100	247	325	350	280	263	200	230	80	280	160L	345	307	132	520	240	1100	750	175	460	400	4-M20	95	3	1227	507	
	18.5												180MC	351.5	320.5	172									101		1247	553	
	22												180LC	370.5	339.5	205									110		1285	595	
	30												200LC	395.5	374.5	278									120		1345	678	

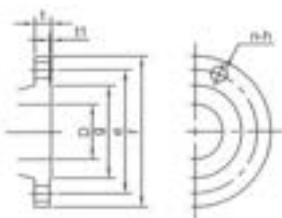
Dimensions - CNA Pump with Motor 4 - Poles Drive (1/6) (Standard: Mechanical Seal Type)

50 Hz

Pump



Flange



Dimension - Flange

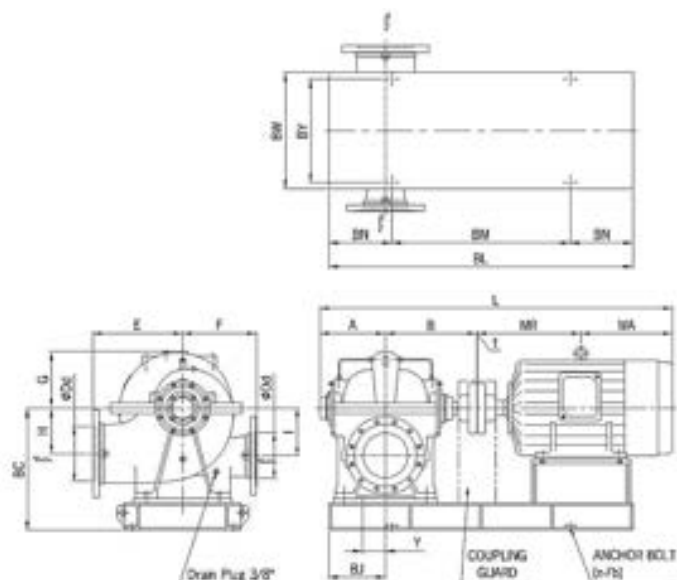
D mm	f mm	e mm	g mm	t1 mm	t mm	n	h mm
80	200	160	132	2	24	8	23
100	225	185	160	2	26	8	23
125	270	225	195	2	26	8	25
150	305	260	230	2	28	12	25

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												112M	200	191.5	43			840	540					47		975.5	299
	5.5	125	100	231	350	290	250	181	150	150	209		132S	239	215	63	411	175	880	530	150	380	330	4-M16	49	3	1038	321
	7.5												132M	258	234	77			920	620					62		1076	348
125 x 100 CNHA	7.5												132M	258	234	77			920	570		380	330	4-M16	62		1076	381
	11	125	100	231	350	300	250	195	150	160	242		160M	323	285	115	411	175	1030	680	175	450	390	4-M20	76	3	1192	433
													160M	323	285	115			1030	680					91		1192	456
125 x 80 CNJA	11												160M	323	285	115			1030	680					91		1192	456
	15	125	80	231	350	330	250	226	150	190	250		160L	345	307	132	436	190	1070	720	175	450	390	4-M20	96	3	1236	478
	18.5												180MC	351.5	320.5	172		195	1080	730					110		1256	532
150 x 150 CNFA	7.5												132M	258	234	77			990	640		440	380		73		1127	403
	11	150	150	262	370	330	290	205	180	170	253		160M	323	285	115	498	220	1090	740	175	450	390	4-M20	90	3	1243	458
													160M	323	285	115			1110	760					105		1277	495
150 x 125 CNGA	11												160M	323	285	115			1110	760		450	390		105		1277	495
	15	150	125	271	395	330	260	224	190	190	275		160L	345	307	132	498	220	1150	800	175	480	420	4-M20	115	3	1321	522
	18.5												180MC	351.5	320.5	172			1160	810					125		1341	572
150 x 125 CNHA	15												160L	345	307	132			1120	770		450	390	4-M20	90		1287	492
	18.5												180MC	351.5	320.5	172			1130	780		450	390	4-M20	100	3	1307	542
	22	150	125	262	370	350	280	243	190	210	270		180LC	370.5	339.5	205	498	220	1170	820	175	480	420	4-M20	110		1345	585
	30												200LC	395.5	374.5	278			1210	860		510	450	4-M20	121	4	1406	669
													200LC	395.5	374.5	278	535		1260	830		510	450	4-M20	130		1440	738
150 x 100 CNJA	30												225SC	432	384	327	535	245	1300	870	215	600	540	4-M22	140	4	1486	797
	37	150	100	271	395	380	290	269	190	240	330		225MC	444.5	396.5	351	560		1320	890					150		1511	831
	45																											

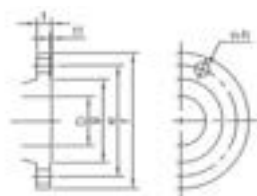
Dimensions - CNA Pump with Motor 4 - Poles Drive (2/6) (Standard: Mechanical Seal Type)

50 Hz

Pump



Flange



Dimension - Flange

D mm	f mm	e mm	G mm	t1 mm	t mm	n	h mm
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

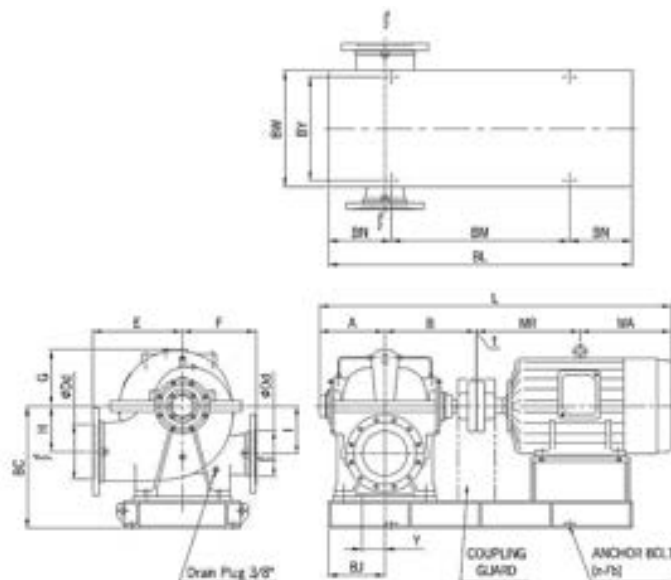
Model	Motor	Size		Pump								Motor				Common Base												Total		
	kW	Ds	Dd	A	B	E	F	G	H	I	wt kg	Frame	MR	MA	wt kg	BC	BJ	BL	BM	BN	BW	BY	n-Fb	wt kg	t	L	wt kg			
200 x 200 CNEA	7.5											132M	258	234	77	493		1000	650					70		1125	417			
	11	200	200	263	370	355	300	223	190	190	270	160M	323	285	115	518	240	1100	750	175	460	400	4-M20	75	3	1244	460			
	15											160L	345	307	132			1140	790					109		1288	511			
200 x 150 CNFA	15	200	150	263	370	355	285	224	190	190	280	160L	345	307	132	518	240	1140	790	175	460	400	4-M20	109	3	1288	512			
	18.5											180MC	351.5	320.5	172		245	1150	800					110		1305	562			
200 x 150 CNGA	18.5											180MC	351.5	320.5	172			1150	800		460	400		103	3	1305	585			
	22	200	150	263	370	355	285	245	200	210	310	180LC	370.5	339.5	205	518	245	1190	840	175	480	420	4-M20	114	3	1347	629			
	30											200LC	395.5	374.5	278			1240	890		500	440		125	4	1407	713			
	37											225SC	432	384	327			1280	850	215	510	450		135	4	1453	772			
200 x 150 CNHA	30											200LC	395.5	374.5	278	535		1260	830	215	510	450	4-M20	125		1452	758			
	37	200	150	282	395	375	295	268	200	230	355	225SC	432	384	327		245	1300	950	175	600	540		144	4	1497	826			
	45											225MC	444.5	396.5	351	560		1320	890		520	450	4-M22	158		1522	864			
	55											250SC	463.5	419	475			1340	910	215	640	570		175		1563	1005			
200 x 100 CNJA	45											225MC	444.5	396.5	351			1390	960	215	600	530		136		1600	932			
	55											250SC	463.5	419	475	265		1410	970				4-M22	150	4	1641.5	1070			
	75	200	100	305	450	420	335	309	200	270	445	250MC	482.5	438	550	615		1440	1000	220	570	500		165		1679.5	1160			
	90											280SC	544	478	660			1530	2x550	215	680	610	6-M22	219		1781	1324			
	110											280MC	569.5	502.5	720	270		1590	2x620	175	720	650	6-M22	241	4	1831	1406			

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

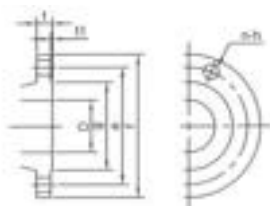
(Standard: Mechanical Seal Type)

50 Hz

Pump



Flange



Dimension - Flange

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

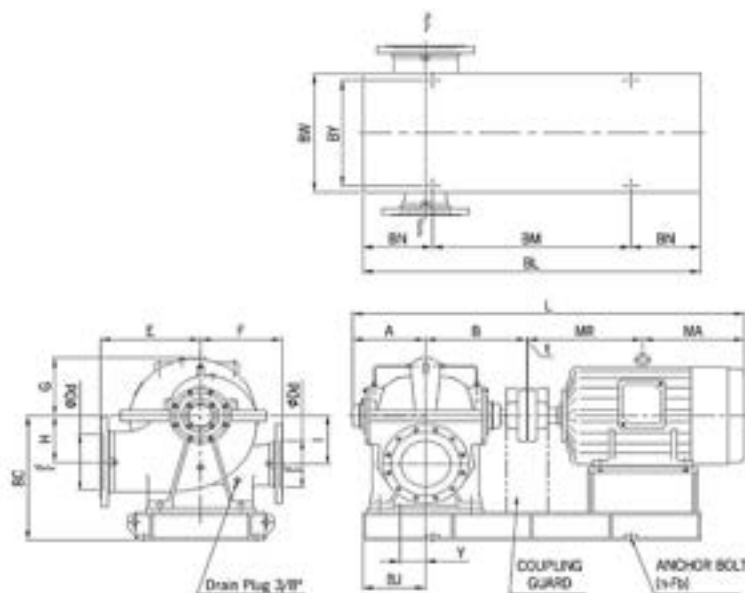
Dimension - Pump

Model	Motor	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	Wt kg		
250 x 200 CNEA	15	250	200	273	395	395	315	243	210	210	360	160L	345	307	132	570	270	1140	770	215	510	450	4-M20	112	3	1323	604		
	18.5											180MC	351.5	320.5	172			1200						116		1343	648		
	22											180LC	370.5	339.5	205			1250						118		1378	683		
250 x 200 CNFA	22	250	200	282	395	395	315	247	210	210	380	180LC	370.5	339.5	205	570	270	1250	850	215	510	450	4-M20	118	3	1387	703		
	30											200LC	395.5	374.5	278			1280						133		1447	791		
	37											225SC	432	384	327			1320						138		1493	845		
250 x 150 CNGA	37	250	150	282	395	395	315	276	220	240	415	225SC	432	384	327	590	270	1320	890	215	550	490	4-M20	141	4	1493	883		
	45											225MC	444.5	396.5	351			1340						148		1522	914		
	55											250SC	463.5	419	475			1370						148		1560	1038		
250 x 150 CNHA	55	250	150	315	450	430	325	299	220	260	500	250SC	463.5	419	475	615	270	1410	980	215	570	500	4-M22	195	4	1651.5	1170		
	75											250MC	482.5	438	550			1440						236		1689	1286		
	90											280SC	544	478	660			1530						164		1791	1324		
	110											280MC	569.5	502.5	720			1580						180		1841	1400		
250 x 150 CNJA	75	250	150	350	500	470	355	346	220	300	605	250MC	482.5	438	550	670	305	1540	2x595	215	620	550	6-M22	256	4	1775	1411		
	90											280SC	544	478	660			1610						260		1872	1525		
	110											280MC	569.5	502.5	720			1660						270		1926	1595		
	132											315SC	589	527	920			1700						280		1970	1805		
250 x 150 CNKA	150	250	150	467	530	500	430	405	290	345	835	315MC	614.5	552.5	1030	670	310	1750	2x700	215	780	710	6-M22	287	4	2021	1922		
	110											280MC	569.5	502.5	720			1700						266		2073	1821		
	132											315SC	589	527	920			1730						282		2117	2037		
	150											315MB	614.5	552.5	1070			1780						292		2168	2157		
	185											315AB	666	830	1450			1920						292		2168	2211		
	220											315AB	666	830	1450			1920						397		2497	2682		

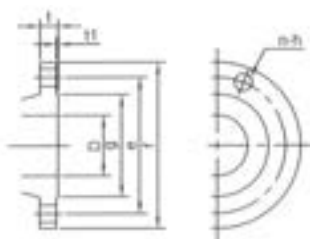
Dimensions - CNA Pump with Motor 4 - Poles Drive (4/6) (Standard: Mechanical Seal Type)

50 Hz

Pump



Flange



Dimension - Flange

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

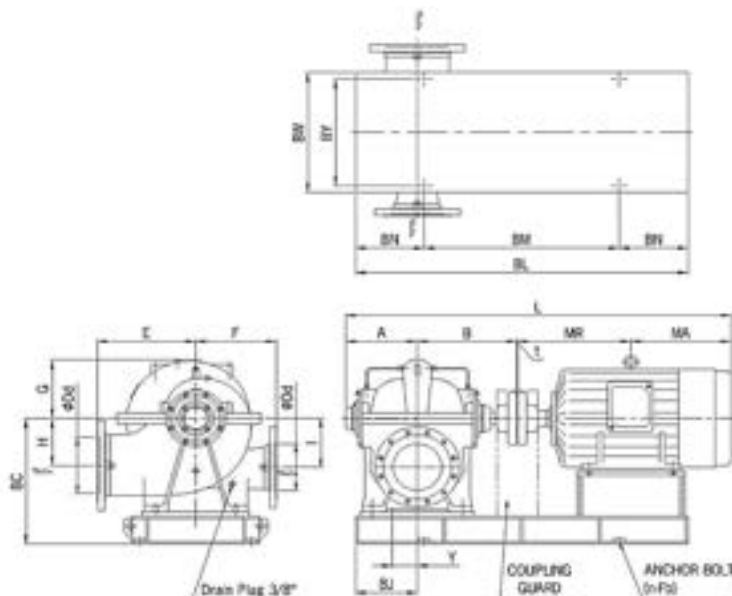
Dimension - Pump

Model	Motor	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	wt kg							
300 x 250 CNEA	22											180LC	370.5	339.5	205			1330	900		580	520		184	3	1430	824							
	30	300	250	302	415	445	355	274	235	235	435	200LC	395.5	374.5	278	620	305	1340	910	215	580	520	4-M20	192	4	1491	905							
	37											225SC	432	384	327												1360	930		600	540	155	1537	917
300 x 200 CNFA	37											225SC	432	384	327	620		1390	1410		600	540		155		1585	972							
	45	300	200	315	450	445	355	280	235	235	490	225MC	444.5	396.5	351	645	305	1440	1010	215	600	530	4-M22	196	4	1610	1037							
	55											250SC	463.5	419	475												1480	1050		620	550	223	1651.5	1188
300 x 200 CNGA	55											250SC	463.5	419	475			1480	1050		620	550	4-M22	224		1672	1219							
	75	300	200	315	470	445	355	300	250	270	520	250MC	482.5	438	550	665	305	1520	2x545	215	620	550	6-M22	227	4	1710	1297							
	90											280SC	544	478	660												1650	2x610		640	570	252	1811	1432
300 x 200 CNHA	90											280SC	544	478	660			1630	2x600		700	630		285		1876	1570							
	110	300	200	350	500	465	365	332	250	290	625	280MC	569.5	502.5	720	665	310	1670	2x620	215	720	650	6-M22	299	4	1926	1644							
	132											315SC	589	527	920												1700	2x635		760	690	324	1970	1869
	150											315MC	614.5	552.5	1030												1750	2x600		760	690	352	2021	2007
300 x 150 CNJA	150											315MC	614.5	552.5	1030	670		1780	2x715	175	780	710	6-M22	263	4	2083	2078							
	185	315MB	614.5	552.5	1070					263	2083	2118																						
	220	300	150	382	530	520	405	384	250	335	785	315AB	666	830	1450	720	310	1920	2x785	215	900	820	8-M24	307	5	2413	2542							
	260											315CB	741	905	1660												2080	3x550		347	2563	2792		
	300											315CB	741	905	1800									725			2080	3x550		401	2563	2986		

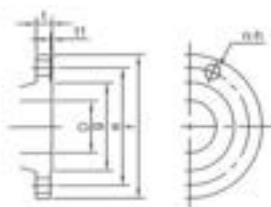
Dimensions - CNA Pump with Motor 4 - Poles Drive (5/6) (Standard: Mechanical Seal Type)

50 Hz

Pump



Flange



Dimension - Flange

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

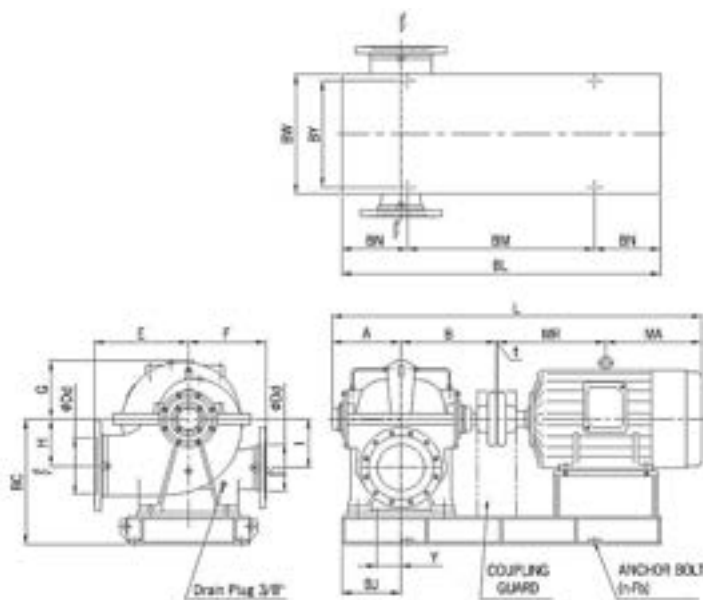
Dimension - Pump

Model	Motor		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	wt kg									
300 x 250 CNFA	37			335	470	495	405	306	250	260	570	225SC	432	384	327	665	305	1420	990					4-M22	195	4	1625	1092								
	45											225MC	444.5	396.5	351			1470	1040						210		1650	1131								
	55											250SC	463.5	419	475			1480	1050						215		1692	1260								
	75											250MC	482.5	438	550			1500	1070						6-M22		227	1730	1347							
300 x 250 CNGA	75			360	500	495	405	313	250	260	620	250MC	482.5	438	550	665	305	1540	2x595		620	550		6-M22	232	4	1785	1402								
	90											280SC	544	478	660			1610	2x630						175		720	650	234	1886	1514					
	110											280MC	569.5	502.5	720			1660	2x655									245	1936	1585						
300 x 250 CNHA	110			360	500	495	405	337	275	295	615	280MC	569.5	502.5	720	695	305	1670	2x660		720	650		6-M22	269	4	1936	1604								
	132											315SC	589	527	920			1700	2x675						175		750	680	231	1980	1766					
300 x 200 CNJA	150			382	530	525	415	379	275	320	860	315MC	614.5	552.5	1030	675		1790	2x680	215	750	680	6-M22	248	4	2083	2138									
	185											315MC	614.5	552.5	1030									6-M24		298	2083	2228								
	220											355M	744	1013	1550									725		305	2090	3x550	220	900	820	8-M24	445	2674	2855	
	260											355M	744	1013	1650												2090						508	2674	3018	
	300											355L	779	978	1900												2120						3x560	515	2674	3275
	300 x 200 CNKA											220	355M	744	1013												1550						785	340	2180	3x580
260		355M	744	1013	1660	2180	570	2757	3300																											
300		355L	779	978	1900	2220	3x590	225	627	2762	3597																									
335		355L	779	978	1900	2380	950	870	689	2762	3659																									
375		355C	819	1016	2340	2350			3x640	215	757	2839	4167																							
450		355CB	874	1065	2500	2420			3x660	220	832	2944	4402																							

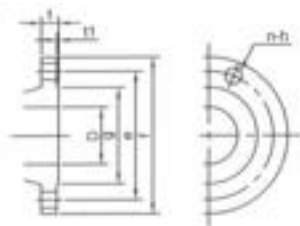
Dimensions - CNA Pump with Motor 4 - Poles Drive (6/6)
(Standard: Mechanical Seal Type)

50 Hz

■ Pump



■ Flange



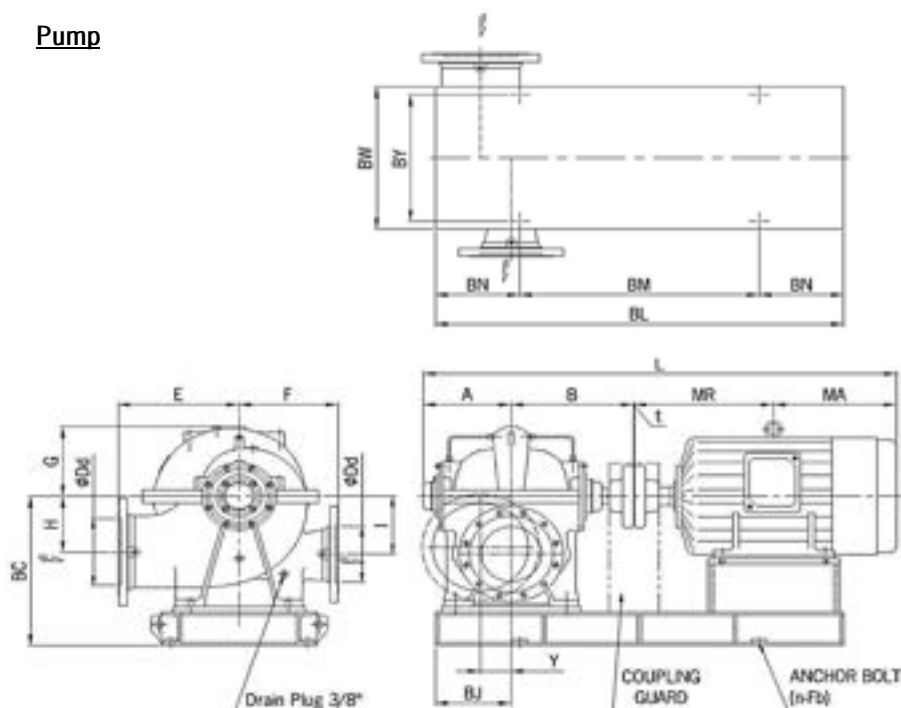
Dimension - Flange

D mm	f mm	e mm	g mm	t1 mm	t mm	n	h mm
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

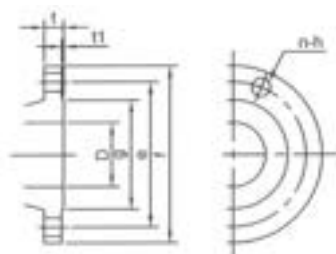
Dimension - Pump

Model	Motor		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	wt kg						
350 x 300 CNFA	75	350	300	386	530	560	450	342	310	310	800	250MC	482.5	438	550	772	340	1610	2x590	215	760	690	6-M22	279	4	1840.5	1629						
	90											280SC	544	478	660			1690	2x630					285		1942	1745						
	110											280MC	569.5	502.5	720	775		1740	2x695	311				1992		1831							
	132											315SC	589	527	920			1760	2x705	318				2036		2038							
350 x 250 CNGA	110	350	250	386	530	560	447	350	310	303	790	280MC	569.5	502.5	720	775	340	1740	2x695	175	800	730	6-M22	311	4	1992	1821						
	132											315SC	589	527	920			1760	2x705					318		2036	2028						
	150											315MC	614.5	552.5	1030	775		1800	2x725	331				2087		2151							
	185											315MB	614.5	552.5	1070			1850	2x710	331				2087		2191							
350 x 250 CNHA	185	350	250	414	560	560	440	376	315	330	845	315MB	614.5	552.5	1070	775	340	1850	2x710	215	800	720	6-M22	331	4	2145	2246						
	220											355M	744	1010	1550			2150	3x570					220		940	860	380	2733	2875			
	260											355M	744	1013	1650	825		340	2150	3x570				220		940	860	8-M24	380	5	2736	3125	
	300											355L	779	1293	1900				2225	3x580									260		900	820	420
	335											355C	819	1371	2340	2335			3x605	260				900					820		462	3051	3647
												400 x 350 CNEA	90	400	350	462			600	620				470					357		325	335	1030
110	280MC	569.5	502.5	720	1860	2x755	445	2138	2195																								
132	315SC	589	527	920	805	1980	2x725	490	2182	2440																							
150	315MC	614.5	552.5	1030		2x755	540	2235	2600																								
400 x 350 CNFA	132	400	350	439	585	625	510	380	305	344	1035	315SC	589	527	920	805	380	1850	2x750	175	780	710	6-M22	337	4	2144	2292						
	150											315MC	614.5	552.5	1030			1900	2x775					352		2195	2417						
	185											315MB	614.5	552.5	1070	805		380	2050	3x540				215		800	720	8-M24	352	5	2195	2457	
	220											315AB	666	830	1450														357		2525	2842	

■ **Pump**



■ **Flange**



Dimension - Flange

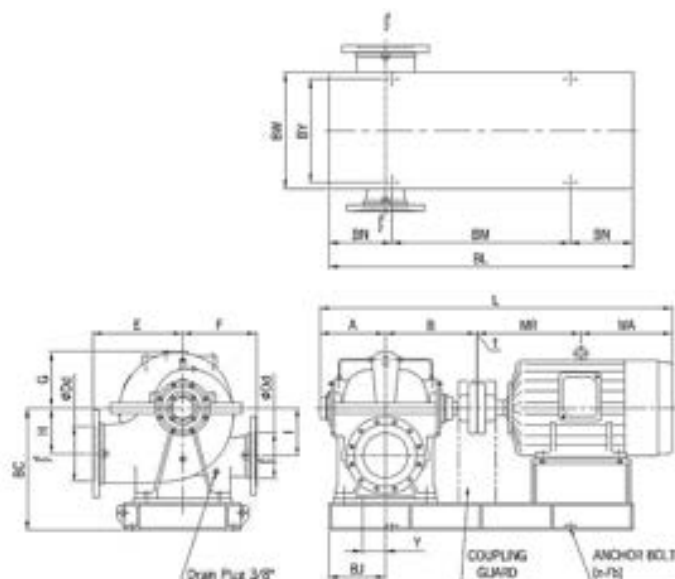
D mm	f mm	e mm	g mm	t1 mm	t mm	n	h mm
80	200	160	132	2	24	8	23
100	225	185	160	2	26	8	23
125	270	225	195	2	26	8	25

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	2.2	100	80	221	250	270	240	169	140	140	70	143	100L	193	181.5	32	411	170	740	440	150	380	330	4-M16	50	3	848.5	225																				
	3.7												112M	200	191.5	43									54		865.5	240																				
100 x 80 CSHA	3.7	100	80	221	250	280	220	185	150	160	70	165	112M	200	191.5	43	411	170	780	480	150	380	330	4-M16	54	3	865.5	262																				
	5.5												132S	239	215	63									42		928	270																				
	7.5												132M	258	234	77									47		966	289																				
100 x 80 CSJA	5.5	100	80	221	250	280	230	202	160	180	70	200	132S	239	215	63	411	170	780	480	150	380	330	4-M16	42	3	928	305																				
	7.5												132M	258	234	77									47		966	324																				
	11												160M	323	285	115									53		1082	368																				
													160L	345	307	132									520		240	1100	750	175	450	400	4-M20	95	1227	507												
125 x 100 CSJA	15	125	100	247	325	350	280	263	200	230	80	280	180MC	351.5	320.5	172	520	240	1100	750	175	460	400	4-M20	101	3	1247	553																				
	18.5												180LC	370.5	339.5	205									110		1285	595																				
	22																																															
	30												200LC	395.5	374.5	278									120		1345	678																				

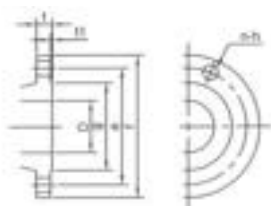
Dimensions - CNA Pump with Motor 4 - Poles Drive (1/6) (Optional: Mechanical Seal with Shaft Sleeve Type)

50 Hz

Pump



Flange



Dimension - Flange

D mm	f mm	e mm	g mm	t1 mm	t mm	n	h mm
80	200	160	132	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

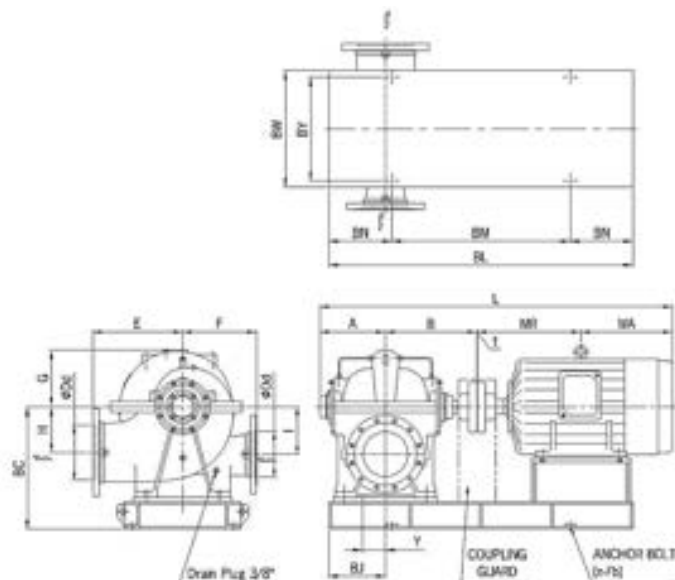
Dimension - Pump

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	wt kg	
125 x 100 CNGA	3.7											112M	200	191.5	43			840	540						47		975.5	299
	5.5	125	100	231	350	290	250	181	150	150	209	132S	239	215	63	411	175	880	530	150	380	330	4-M16	49	3	1038	321	
	7.5											132M	258	234	77			920	620						62		1076	348
125 x 100 CNHA	7.5											132M	258	234	77			920	570		380	330	4-M16	62		1076	381	
	11	125	100	231	350	300	250	195	150	160	242	160M	323	285	115	411	175	1030	680	175	450	390	4-M20	76	3	1192	433	
125 x 80 CNJA	11											160M	323	285	115			1030	680						91		1192	456
	15	125	80	231	350	330	250	226	150	190	250	160L	345	307	132	436	190	1070	720	175	450	390	4-M20	96	3	1236	478	
	18.5											180MC	351.5	320.5	172		195	1080	730						110		1256	532
150 x 150 CNFA	7.5											132M	258	234	77			990	640		440	380		73		1127	403	
	11	150	150	262	370	330	290	205	180	170	253	160M	323	285	115	498	220	1090	740	175	450	390	4-M20	90	3	1243	458	
150 x 125 CNGA	11											160M	323	285	115			1110	760						105		1277	495
	15	150	125	271	395	330	260	224	190	190	275	160L	345	307	132	498	220	1150	800	175	450	390	4-M20	115	3	1321	522	
	18.5											180MC	351.5	320.5	172			1160	810		480	420		125		1341	572	
150 x 125 CNHA	15											160L	345	307	132			1120	770		450	390	4-M20	90		1287	492	
	18.5											180MC	351.5	320.5	172			1130	780		450	390	4-M20	100	3	1307	542	
	22	150	125	262	370	350	280	243	190	210	270	180LC	370.5	339.5	205	498	220	1170	820	175	480	420	4-M20	110		1345	585	
	30											200LC	395.5	374.5	278			1210	860		510	450	4-M20	121	4	1406	669	
150 x 100 CNJA	30											200LC	395.5	374.5	278	535		1260	830		510	450		130		1440	738	
	37	150	100	271	395	380	290	269	190	240	330	225SC	432	384	327	535	245	1300	870	215	600	540	4-M20	140	4	1486	797	
	45											225MC	444.5	396.5	351	560		1320	890				4-M22	150	4	1511	831	

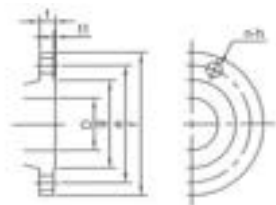
Dimensions - CNA Pump with Motor 4 - Poles Drive (2/6)
(Optional: Mechanical Seal with Shaft Sleeve Type)

50 Hz

■ **Pump**



■ **Flange**



Dimension - Flange

D mm	f mm	e mm	G mm	t1 mm	t mm	n	h 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

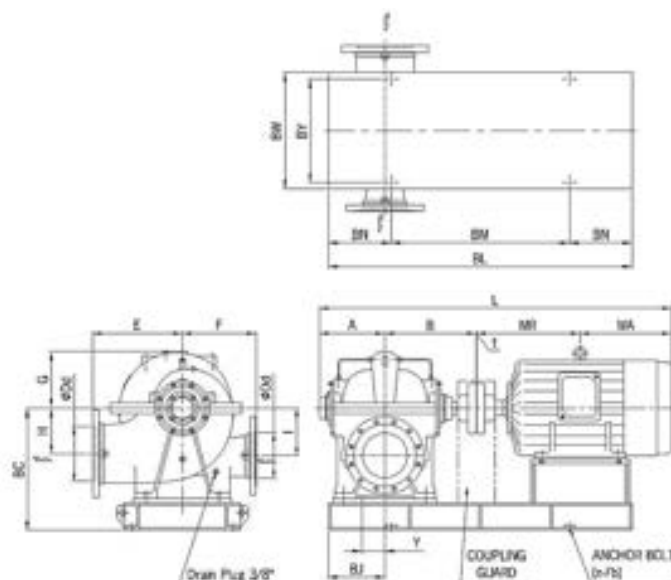
Model	Motor	Size		Pump								Motor				Common Base										Total		
	kW	Ds	Dd	A	B	E	F	G	H	I	wt kg	Frame	MR	MA	wt kg	BC	BJ	BL	BM	BN	BW	BY	n-Fb	wt kg	t	L	wt kg	
200 x 200 CNEA	7.5											132M	258	234	77	493		1000	650						70		1125	417
	11	200	200	263	370	355	300	223	190	190	270	160M	323	285	115	518	240	1100	750	175	460	400	4-M20	75	3	1244	460	
	15											160L	345	307	132			1140	790						109		1288	511
200 x 150 CNFA	15											160L	345	307	132	518	240	1140	790	175	460	400	4-M20	109	3	1288	512	
	18.5	200	150	263	370	355	285	224	190	190	280	180MC	351.5	320.5	172	518	245	1150	800						110		1305	562
200 x 150 CNGA	18.5											180MC	351.5	320.5	172			1150	800		460	400			103	3	1305	585
	22	200	150	263	370	355	285	245	200	210	310	180LC	370.5	339.5	205	518	245	1190	840	175	480	420	4-M20	114	3	1347	629	
	30											200LC	395.5	374.5	278			1240	890		500	440		125	4	1407	713	
	37											225SC	432	384	327			1280	850	215	510	450		135	4	1453	772	
200 x 150 CNHA	30											200LC	395.5	374.5	278	535		1260	830	215	510	450	4-M20	125		1452	758	
	37	200	150	282	395	375	295	268	200	230	355	225SC	432	384	327	535	245	1300	950	175	600	540		144	4	1497	826	
	45											225MC	444.5	396.5	351			1320	890		520	450	4-M22	158	4	1522	864	
	55											250SC	463.5	419	475	560		1340	910	215	640	570		175		1563	1005	
200 x 100 CNJA	45											225MC	444.5	396.5	351			1390	960	215	600	530		136		1600	932	
	55											250SC	463.5	419	475	265		1410	970				4-M22	150	4	1641.5	1070	
	75	200	100	305	450	420	335	309	200	270	445	250MC	482.5	438	550	615		1440	1000	220	570	500		165	4	1679.5	1160	
	90											280SC	544	478	660			1530	2x550	215	680	610	6-M22	219		1781	1324	
	110											280MC	569.5	502.5	720	270		1590	2x620	175	720	650	6-M22	241	4	1831	1406	

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

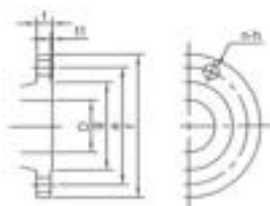
(Optional: Mechanical Seal with Shaft Sleeve Type)

50 Hz

Pump



Flange



Dimension - Flange

D mm	f mm	e mm	g mm	t1 mm	t mm	n	h 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

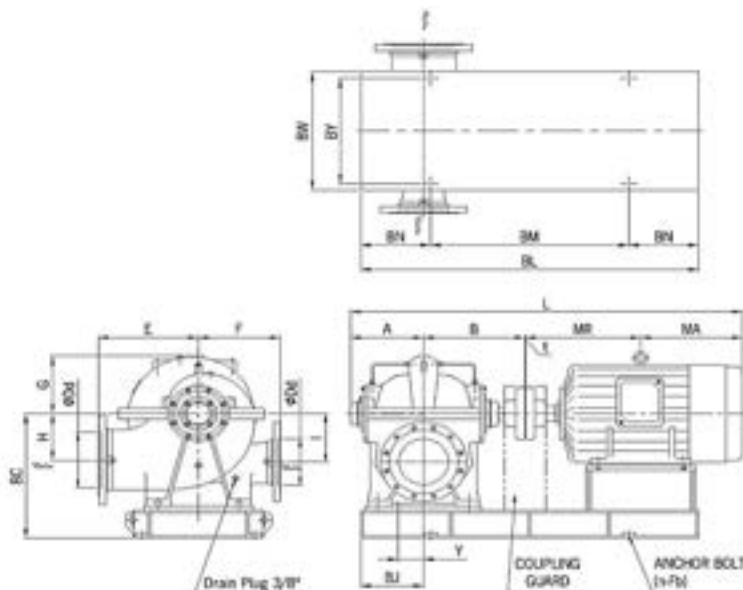
Dimension - Pump

Model	Motor	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	Wt kg	
250 x 200 CNEA	15	250	200	273	395	395	315	243	210	210	360	160L	345	307	132	570	270	1140	770	215	510	450	4-M20	112	3	1323	604	
	18.5											180MC	351.5	320.5	172			1200						116		1343	648	
	22											180LC	370.5	339.5	205			1250	820					118		1378	683	
250 x 200 CNFA	22	250	200	282	395	395	315	247	210	210	380	180LC	370.5	339.5	205	570	270	1250	850	215	510	450	4-M20	118	3	1387	703	
	30											200LC	395.5	374.5	278			1280						133		1447	791	
	37											225SC	432	384	327			1320	890					650		490	138	1493
250 x 150 CNGA	37	250	150	282	395	395	315	276	220	240	415	225SC	432	384	327	590	270	1320	890	215	550	490	4-M20	141	4	1493	883	
	45											225MC	444.5	396.5	351			1340	910			560		500		148	1522	914
	55											250SC	463.5	419	475	615	270	1370	940			640		570		148	1560	1038
250 x 150 CNHA	55	250	150	315	450	430	325	299	220	260	500	250SC	463.5	419	475			1410	980	215	570	500	4-M22	195	4	1651.5	1170	
	75											250MC	482.5	438	550			1440	1000					236		1689	1286	
	90											280SC	544	478	660			1530	2x550			680	610	164		1791	1324	
	110											280MC	569.5	502.5	720			1580	2x570			720	650	180		1841	1400	
250 x 150 CNJA	75	250	150	350	500	470	355	346	220	300	605	250MC	482.5	438	550	670	305	1540	2x595	175	720	650	6-M22	256	4	1775	1411	
	90											280SC	544	478	660			1610	2x630							260	1872	1525
	110											280MC	569.5	502.5	720			1660	2x655							270	1926	1595
	132											315SC	589	527	920			1700	2x675							280	1970	1805
250 x 150 CNKA	150	250	150	467	530	500	430	405	290	345	835	315MC	614.5	552.5	1030	670	310	1750	2x700	215	720	650	6-M22	287	4	2021	1922	
	132											280MC	569.5	502.5	720			1700	2x675							266	2073	1821
	185											315SC	589	527	920			1730	2x650							282	2117	2037
	220											315MB	614.5	552.5	1070			1780	2x675							292	2168	2211
250 x 150 CNKA	220	250	150	467	530	500	430	405	290	345	835	315AB	666	830	1450	670	310	1920	2x785	215	800	720	6-M24	397	5	2497	2682	
	220											315AB	666	830	1450			1920	2x785							397	2497	2682

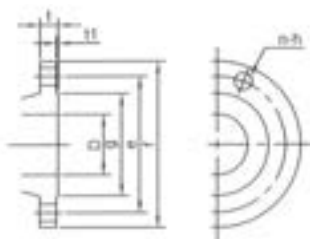
Dimensions - CNA Pump with Motor 4 - Poles Drive (4/6) (Optional: Mechanical Seal with Shaft Sleeve Type)

50 Hz

Pump



Flange



Dimension - Flange

D mm	f mm	e mm	g mm	t1 mm	t mm	n	h 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

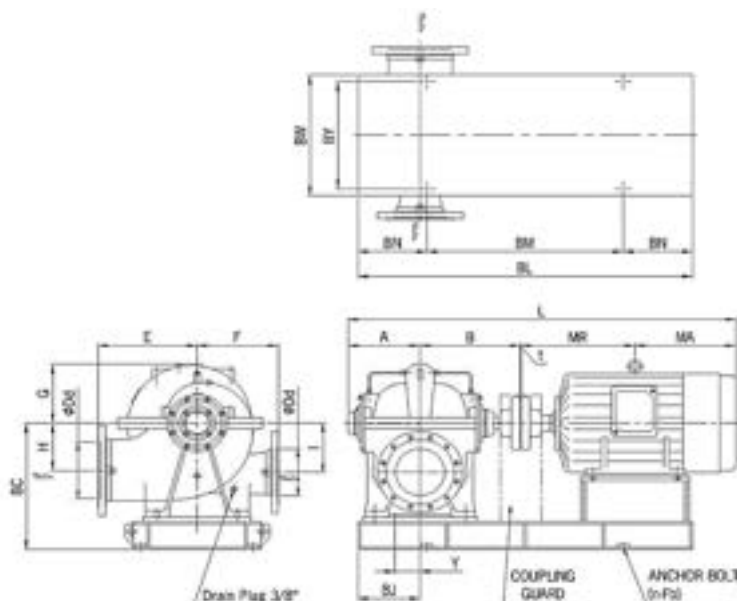
Dimension - Pump

Model	Motor	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	wt kg			
300 x 250 CNEA	22											180LC	370.5	339.5	205				1330	900					1843		1430	824		
	30	300	250	302	415	445	355	274	235	235	435	200LC	395.5	374.5	278	620	305	1340	910	215	580	520	4-M20	192	4	1491	905			
	37											225SC	432	384	327				1360	930			600	540		155		1537	917	
300 x 200 CNFA	37											225SC	432	384	327	620		1390	1410			540		155		1585	972			
	45	300	200	315	450	445	355	280	235	235	490	225MC	444.5	396.5	351	645	305	1440	1010	215	600	530	4-M22	196	4	1610	1037			
	55											250SC	463.5	419	475				1480	1050			620	550		223		1651.5	1188	
300 x 200 CNGA	55											250SC	463.5	419	475				1480	1050				4-M22	224		1672	1219		
	75	300	200	315	470	445	355	300	250	270	520	250MC	482.5	438	550	665	305	1520	2x545	215		620	550	6-M22	227	4	1710	1297		
	90											280SC	544	478	660				1650	2x610			640	570		252		1811	1432	
300 x 200 CNHA	90											280SC	544	478	660				1630	2x600			700	630		285		1876	1570	
	110											280MC	569.5	502.5	720				1670	2x620					299		1926	1644		
	132	300	200	350	500	465	365	332	250	290	625	315SC	589	527	920	665	310		1700	2x635			720	650	6-M22	324	4	1970	1869	
	150											315MC	614.5	552.5	1030				1750	2x600				760	690		352		2021	2007
300 x 150 CNJA	150											315MC	614.5	552.5	1030										263		2083	2078		
	185											315MB	614.5	552.5	1070	670			1780	2x715	175		780	710	6-M22	263	4	2083	2118	
	220	300	150	382	530	520	405	384	250	335	785	315AB	666	830	1450	720	310		1920	2x785				840	760	6-M24	307		2413	2542
	260											315CB	741	905	1660				2080	3x550						347	5	2563	2792	
	300											315CB	741	905	1800	725			2080	3x550	215	900	820	8-M24	401		2563	2986		

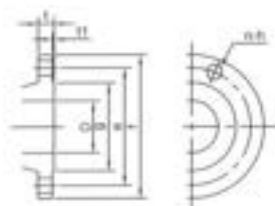
Dimensions - CNA Pump with Motor 4 - Poles Drive (5/6)
(Optional: Mechanical Seal with Shaft Sleeve Type)

50 Hz

Pump



Flange



Dimension - Flange

D mm	f mm	e mm	g mm	t1 mm	t mm	n	h 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

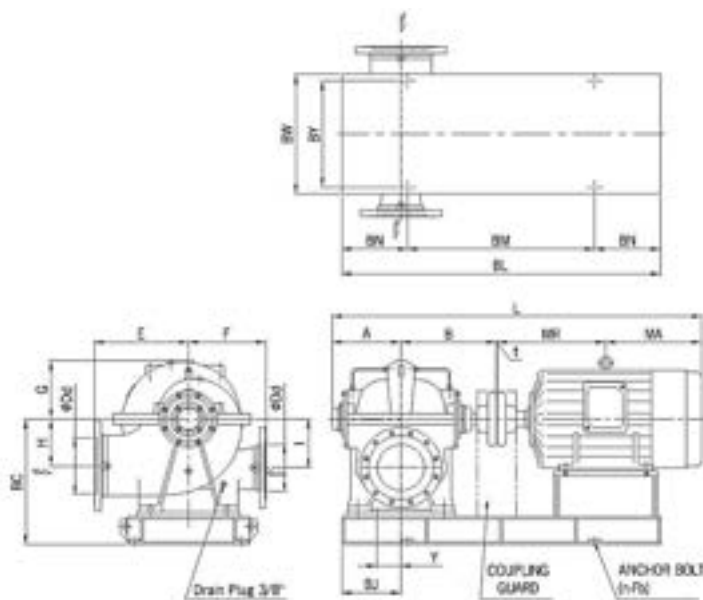
Dimension - Pump

Model	Motor	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	wt kg									
300 x 250 CNFA	37	300	250	335	470	495	405	306	250	260	570	225SC	432	384	327	665	305	1420	990	215	620	550	4-M22	195	4	1625	1092									
	45											225MC	444.5	396.5	351				1470					1040		210	1650	1131								
	55											250SC	463.5	419	475				1480					1050		215	1692	1260								
	75											250MC	482.5	438	550				1500					1070		6-M22	227	1730	1347							
300 x 250 CNGA	75	300	250	360	500	495	405	313	250	260	620	250MC	482.5	438	550	665	305	1540	2x595	175	620	550	6-M22	232	4	1785	1402									
	90											280SC	544	478	660			1610	2x630					234		1886	1514									
	110											280MC	569.5	502.5	720			1660	2x655					245		1936	1585									
300 x 250 CNHA	110	300	250	360	500	495	405	337	275	295	615	280MC	569.5	502.5	720	695	305	1670	2x660	175	720	650	6-M22	269	4	1936	1604									
	132											315SC	589	527	920			1700	2x675					231		1980	1766									
	150											315MC	614.5	552.5	1030			1750	2x700					256		2031	1901									
300 x 200 CNJA	150	300	200	382	530	525	415	379	275	320	860	315MC	614.5	552.5	1030	675	305	1790	2x680	215	750	680	6-M22	248	4	2083	2138									
	185											315MB	614.5	552.5	1070	6-M24								298		2083	2228									
	220											355M	744	1013	1550	725								2090		3x550	220	900	820	8-M24	445	5	2674	2855		
	260											355M	744	1013	1650																2090		508	2674	3018	
	300											355L	779	978	1900																2120		3x560	515	2674	3275
	450											355CB	874	1065	2500																2420		3x660	220	832	2944

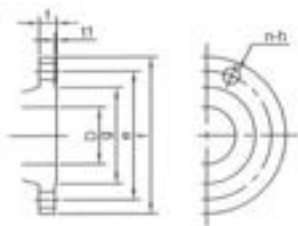
Dimensions - CNA Pump with Motor 4 - Poles Drive (6/6) (Optional: Mechanical Seal with Shaft Sleeve Type)

50 Hz

Pump



Flange



Dimension - Flange

D mm	f mm	e mm	g mm	t1 mm	t mm	n	h 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

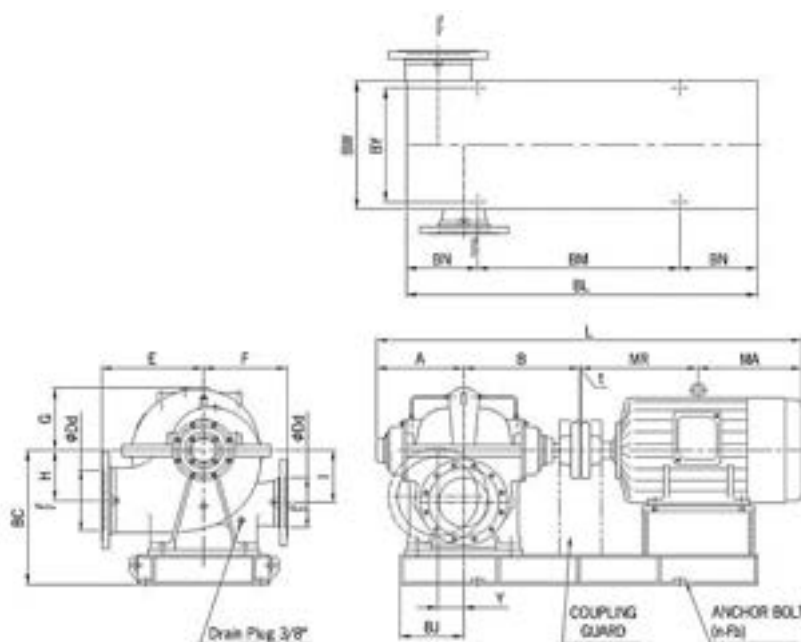
Dimension - Pump

Model	Motor	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	wt kg
350 x 300 CNFA	75	350	300	386	530	560	450	342	310	310	800	250MC	482.5	438	550	772	340	1610	2x590	215	760	690	6-M22	279	4	1840.5	1629
	90											280SC	544	478	660			1690	2x630	175	800	730		285		1942	1745
	110											280MC	569.5	502.5	720	1740	2x695	175	800	730	311	1992		1831			
	132											315SC	589	527	920	1760	2x705	175	800	730	318	2036		2038			
350 x 250 CNGA	110	350	250	386	530	560	447	350	310	303	790	280MC	569.5	502.5	720	775	340	1740	2x695	175	800	730	6-M22	311	4	2036	1821
	132											315SC	589	527	920			1760	2x705	175	800	730		318		2036	2028
	150											315MC	614.5	552.5	1030	1800	2x725	175	800	730	331	2087		2151			
	185											315MB	614.5	552.5	1070	1850	2x710	175	800	730	331	2087		2191			
350 x 250 CNHA	185	350	250	414	560	560	440	376	315	330	845	315MB	614.5	552.5	1070	775	340	1850	2x710	215	800	720	6-M22	331	5	2145	2246
	220											355M	744	1010	1550			2150	3x570	220	940	860		380		2733	2875
	260											355M	744	1013	1650	2150	3x570	220	940	860	380	2736	3125				
	300											355L	779	1293	1900	2225	3x580	260	900	820	420	3051	3165				
	335											355C	819	1371	2340	2335	3x605	260	900	820	462	3051	3647				
	400 x 350 CNEA											90	400	350	462	600	620	470	357	325	335	1030	280SC	544		478	660
110		280MC	569.5	502.5	720	1860	2x755	175	780	710	445	2138											2195				
132		315SC	589	527	920	1980	2x725	215	800	730	490	2182											2440				
150		315MC	614.5	552.5	1030	2x755	215	800	730	540	2235	2600															
400 x 350 CNFA	132	400	350	439	585	625	510	380	305	344	1035	315SC	589	527	920	805	380	1850	2x750	175	780	710	6-M22	337	4	2144	2292
	150											315MC	614.5	552.5	1030			1900	2x775	175	780	710		352		2195	2417
	185											315MB	614.5	552.5	1070	2050	3x540	215	800	720	352	2195		2457			
	220											315AB	666	830	1450	2050	3x540	215	800	720	357	2525		2842			

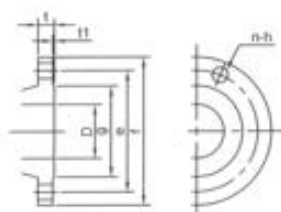
Dimensions - CNA Pump with Motor 4 Poles Drive (Optional: Gland Packing Type)

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

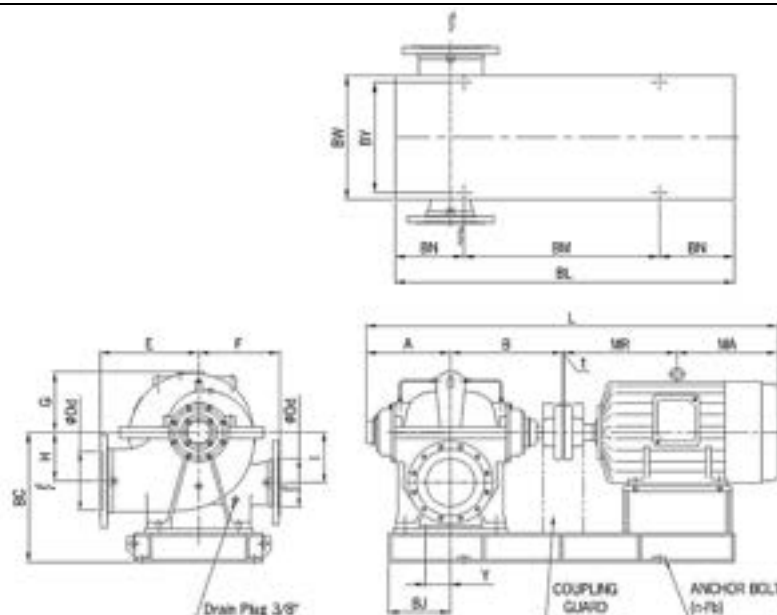
Dimension - Pump

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	2.2	100	80	314	385	270	240	169	140	140	70	143	100L	193	181.5	32	411	170	880	580	150	380	330	4-M16	60	3	1076.5	235	
	3.7												112M	200	191.5	43									60		1093.5	246	
100 x 80 CSHA	3.7	100	80	314	385	280	220	185	150	160	70	165	112M	200	191.5	43	411	170	900	600	150	380	330	4-M16	62	3	1093.5	270	
	5.5												132S	239	215	63									64		1156	292	
	7.5												132M	258	234	77									70		1194	312	
	5.5												132S	239	215	63									64		1156	327	
100 x 80 CSJA	7.5	100	80	314	385	280	230	202	160	180	70	200	132M	258	234	77	411	170	950	650	150	380	330	4-M16	70	3	1194	347	
	11												160M	323	285	115									77		1310	392	
	15												160L	345	307	132									85		1435	497	
125 x 100 CSJA	18.5	125	100	340	440	350	280	263	200	230	80	280	180MC	351.5	320.5	172	520	240	1220	880	175	460	400	4-M20	95	3	1455	547	
	22												180LC	370.5	339.5	205									105		1493	590	
	30												200LC	395.5	374.5	278									115		1553	673	
	15												160L	345	307	132									85		1435	497	

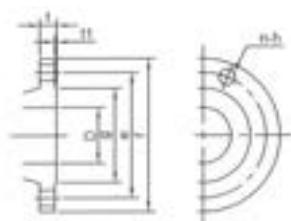
Dimensions - CNA Pump with Motor 4 - Poles Drive (1/6) (Optional: Gland Packing Type)

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

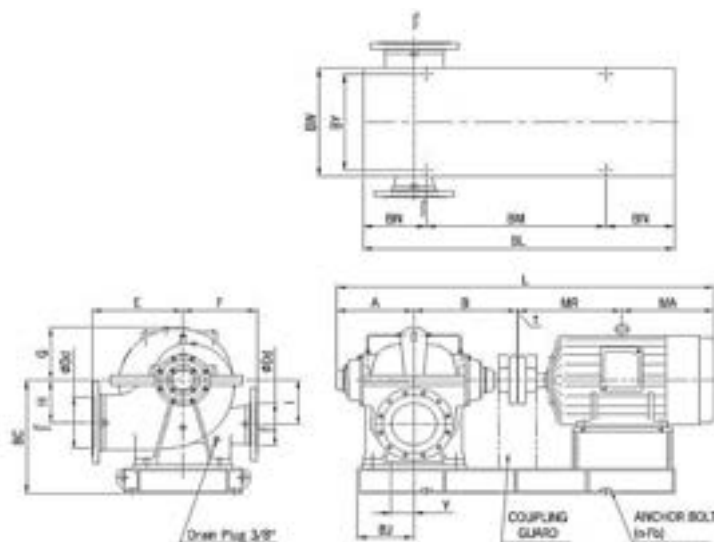
Model	Motor	Size		Pump								Motor				Common Base										Total			
	kW	Ds	Dd	A	B	E	F	G	H	I	wt kg	Frame	MR	MA	wt kg	BC	BJ	BL	BM	BN	BW	BY	n-Fb	wt kg	t	L	wt kg		
125 x 100 CNGA	3.7											112M	200	191.5	43			950	650					56		1170.5	314		
	5.5	125	100	326	450	290	250	181	150	150	215	132S	239	215	63	411	175	980	680	150	380	330	4-M16	58	3	1233	336		
	7.5											132M	258	234	77			1020	720					75		1271	367		
125 x 100 CNHA	7.5	125	100	326	450	300	250	195	150	160	249	132M	258	234	77	411	175	1020	670	175	380	330	4-M16	75	3	1271	401		
	11											160M	323	285	115			1100	750					450		390	4-M20	79	1387
125 x 80 CNJA	11	125	80	326	450	330	250	226	150	190	258	160M	323	285	115	435	190	1130	780	175	450	390	4-M20	89	3	1387	462		
	15											160L	345	307	132			1170	820					95		1431	485		
	18.5											180MC	351.5	320.5	172			195	1180					830		111	1451	541	
150 x 150 CNFA	7.5	150	150	355	475	330	290	205	180	170	260	132M	258	234	77	498	220	1100	750	175	450	390	4-M20	91	3	1325	428		
	11											160M	323	285	115			1180	830					101		1441	476		
150 x 125 CNGA	11	150	125	364	505	330	260	224	190	190	283	160M	323	285	115	498	220	1210	860	175	450	390	4-M20	98	3	1480	496		
	15											160L	345	307	132			1260	910					107		1524	522		
	18.5											180MC	351.5	320.5	172									105		1544	560		
150 x 125 CNHA	15	150	125	355	475	350	280	243	190	210	278	160L	345	307	132	498	220	1240	890	175	450	390	4-M20	108	3	1485	518		
	18.5											180MC	351.5	320.5	172									105		1505	555		
	22											180LC	370.5	339.5	205			490	220					1280		930	104	1543	587
	30											200LC	395.5	374.5	278									109		1604	665		
150 x 100 CNJA	30	150	100	364	505	380	290	269	190	240	340	200LC	395.5	374.5	278	535	245	1370	940	215	510	450	4-M20	109	4	1643	727		
	37											225SC	432	384	327			1390	960					141		1689	808		
	45											225MC	444.5	396.5	351			560	1430					1000		196	1714	887	

Dimensions - CNA Pump with Motor 4 - Poles Drive (2/6)

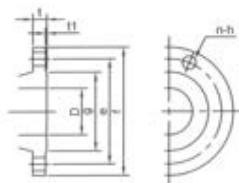
(Optional: Gland Packing Type)

50 Hz

Pump



Flange



Dimension - Flange

D mm	f mm	e mm	g mm	t1 mm	t mm	n	h 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

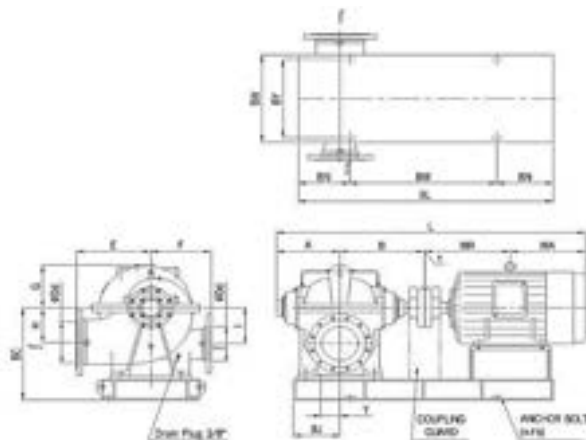
Model	Motor	Size		Pump								Motor				Common Base										Total	
	kW	Ds	Dd	A	B	E	F	G	H	I	wt kg	Frame	MR	MA	wt kg	BC	BJ	BL	BM	BN	BW	BY	n-Fb	wt kg	t	L	wt kg
200 x 200 CNEA	7.5											132M	258	234	77			1110	760					97		1326	452
	11	200	200	356	475	355	300	223	190	190	278	160M	323	285	115	518	245	1210	860	175	460	400	4-M20	104	3	1442	497
	15											160L	345	307	132			1250	900					114		1486	524
200 x 150 CNFA	15	200	150	356	475	355	285	224	190	190	288	160L	345	307	132	518	235	1250	900	175	460	400	4-M20	114	3	1486	534
	18.5											180MC	351.5	320.5	172			1260	910					116		1506	576
200 x 150 CNGA	18.5	200	150	356	475	355	285	245	200	210	319	180MC	351.5	320.5	172	518	235	1270	840	215	460	400	4-M20	118	3	1506	609
	22											180LC	370.5	339.5	205			1300	870					120		1544	644
	30											200LC	395.5	374.5	278			1350	920					125		1605	722
	37											225SC	432	384	327			1390	960					141	1651	787	
200 x 150 CNHA	30	200	150	381	505	375	295	268	200	230	366	200LC	395.5	374.5	278	531	245	1370	940	215	510	450	4-M20	130	4	1660	774
	37											225SC	432	384	327			1390	960					141		1706	834
	45											225MC	444.5	396.5	351			1430	1000					165		1731	882
	55											250SC	463.5	419	475			556	1450					1020		188	1772.5
200 x 100 CNJA	45	200	100	410	560	420	335	309	200	270	458	225MC	444.5	396.5	351	615	270	1500	1070	215	570	500	6-M22	195	4	1815	1004
	55											250SC	463.5	419	475			1520	2x545					203		1856.5	1136
	75											250MC	482.5	438	550			1550	2x560					212		1894.5	1220
	90											280SC	544	478	660			1640	2x605					219		1996	1337
	110											280MC	569.5	502.5	720			1700	2x635					224		2046	1402

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

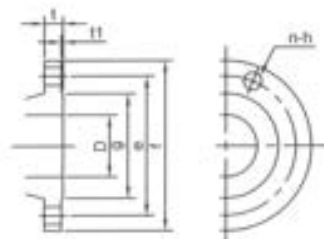
(Optional: Gland Packing Type)

50 Hz

Pump



Flange



Dimension - Flange

D mm	f mm	e mm	g mm	t1 mm	t mm	n	h 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

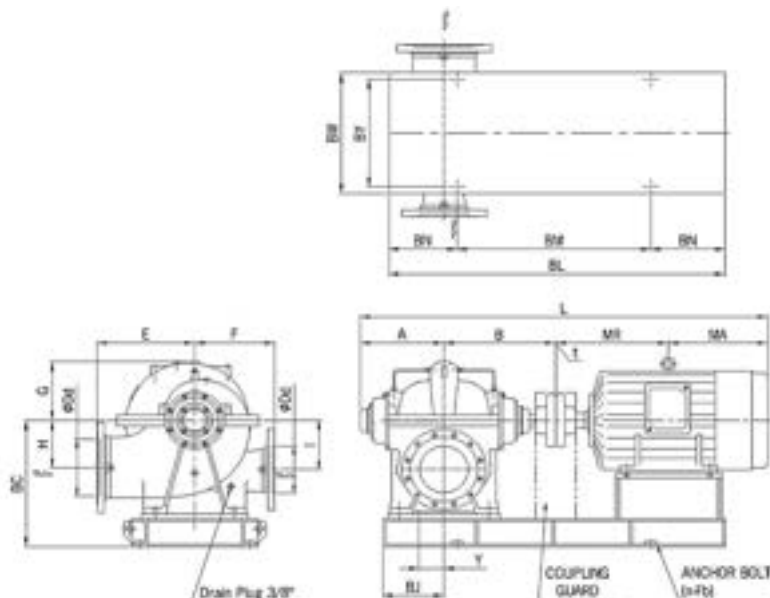
Model	Motor	Size		Pump								Motor				Common Base								Total				
	kW	Ds	Dd	A	B	E	F	G	H	I	wt kg	Frame	MR	MA	wt kg	BC	BJ	BL	BM	BN	BW	BY	n-Fb	wt kg	t	L	wt kg	
250 x 200 CNEA	15											160L	345	307	132			1280	850					158		1496	650	
	18.5	250	200	366	475	395	315	243	210	210	360	180MC	351.5	320.5	172	570	270	1290	860	215	510	450	4-M20	118	3	1516	650	
	22											180LC	370.5	339.5	205			1340	910					166		1554	731	
250 x 200 CNFA	22											180LC	370.5	339.5	205			1380	950					168	3	1599	753	
	30	250	200	381	505	395	315	247	210	210	380	200LC	395.5	374.5	278	570	270	1400	930	215	510	450	4-M20	169	4	1660	827	
	37											225SC	432	384	327			1440	1010					170		1706	877	
250 x 150 CNGA	37											225SC	432	384	327			1440	1010		550		490	4-M22	153		1706	905
	45	250	150	381	505	395	315	276	220	240	415	225MC	444.5	396.5	351	620	270	1450	1020	215	560			157	4	1731	923	
	55											250SC	463.5	419	475			1480	1050		640	570	4-M22	178		1772.5	1068	
250 x 150 CNHA	55											250SC	463.5	419	475	620		1520	1090					188		1866.5	1163	
	75	250	150	420	560	430	325	299	220	260	500	250MC	482.5	438	550		270	1560	2x565	215	570	500		215	4	1904.5	1265	
	90											280SC	544	478	660	670		1640	2x605		640	570	6-M22	221		2006	1381	
	110											280MC	569.5	502.5	720			1690	2x630		720	650		268		2056	1488	
250 x 150 CNJA	75											250MC	482.5	438	550			1650	2x610					215		2002.5	1370	
	90											280SC	544	478	660			1720	2x645	620	550			247		2104	1512	
	110	250	150	468	610	470	355	346	220	300	605	280MC	569.5	502.5	720	670	305	1770	2x670	215			6-M22	265	4	2154	1590	
	132											315SC	589	527	920			1820	2x695		720	650		277		2198	1802	
	150											315MC	614.5	552.5	1030			1860	2x715					284		2249	1919	
250 x 150 CNKA	110											280MC	569.5	502.5	720			1810	2x690					272		2158	1864	
	132											315SC	589	527	920			1840	2x690	215	720	650		285	4	2202	2077	
	150	250	150	467	615	500	430	405	290	345	872	315MC	614.5	552.5	1030	680	305						6-M22	317		2253	2219	
	185											315MB	614.5	552.5	1070			1890	2x730					320		2253	2262	
	220											315AB	666	830	1450			2030	3x550	190	780	710		360	5	2583	2682	

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

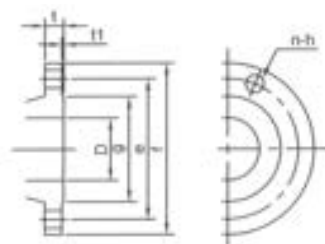
(Optional: Gland Packing Type)

50 Hz

Pump



Flange



Dimension - Flange

D mm	f mm	e mm	g mm	t1 mm	t mm	n	h 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

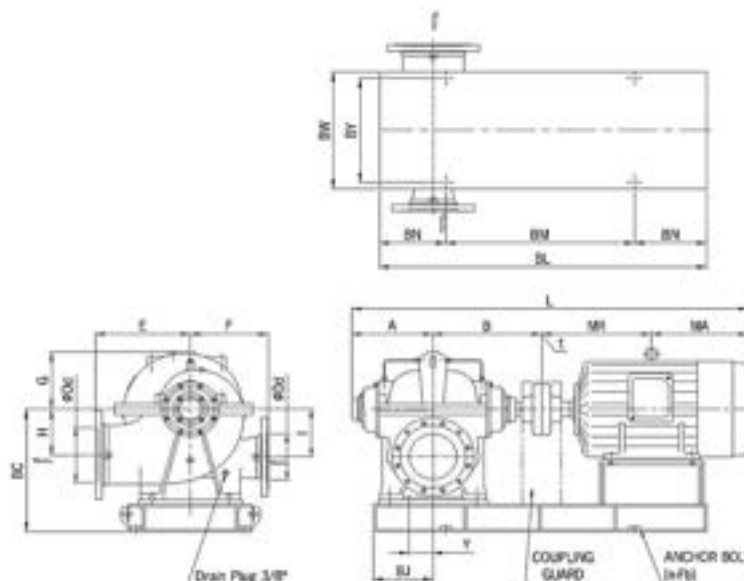
Dimension - Pump

Model	Motor		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	wt kg		
300 x 250 CNEA	22											180LC	370.5	339.5	205				1440	1010		580	520		200	3	1629	853	
	30	300	250	401	515	445	355	274	235	235	448	200LC	395.5	374.5	278	620	305	1460	1030	215	580	520	4-M20	211	4	1690	957		
	37											225SC	432	384	327			1480	1050		600	540		170		1736	945		
300 x 200 CNFA	37											225SC	432	384	327			1530	2x590	175	600	540		170		1800	1002		
	45	300	200	420	560	445	355	280	235	235	505	225MC	444.5	396.5	351	645	305	1580	2x575	215	620	550	6-M22	215	4	1825	1071		
	55											250SC	463.5	419	475			1600	2x585					245		1866.5	1225		
300 x 200 CNGA	55											250SC	463.5	419	475			1600	2x585		620	550		248		1871.5	1258		
	75	300	200	420	565	445	355	300	250	270	535	250MC	482.5	438	550	665	310	1620	2x595	215	620	550	6-M22	250	4	1909.5	1335		
	90											280SC	544	478	660			1750	2x660		640	570		277		2011	1472		
300 x 200 CNHA	90											280SC	544	478	660			1750	2x660		700	630		313		2104	1617		
	110											280MC	569.5	502.5	720			1770	2x670	215	740	670	6-M22	329	4	2154	1693		
	132	300	200	468	610	465	365	332	250	290	644	315SC	589	527	920	670	305	1800	2x685					356		2198	1920		
	150											315MC	614.5	552.5	1030			1850	2x710		780	710		387		2249	2061		
300 x 150 CNJA	150											315MC	614.5	552.5	1030				1870	2x760	175	780	710	6-M22	289	4	2253	2132	
	185											315MB	614.5	552.5	1070	675								289	4	2253	2172		
	220	300	150	467	615	520	405	384	250	335	813	315AB	666	830	1450			2020	3x530	215	800	720	8-M24	337	5	2583	2600		
	260											315CB	741	905	1660				3x580	215	800	720	8-M24	381	5	2733	2854		
	300											315CB	741	905	1800	725		2170	3x580					441		2733	3054		

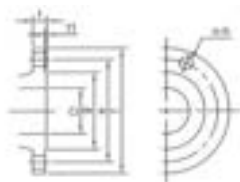
Dimensions - CNA Pump with Motor 4 - Poles Drive (5/6) (Optional: Gland Packing Type)

50 Hz

Pump



Flange



Dimension - Flange

D mm	f mm	e mm	g mm	t1 mm	t mm	n	h 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

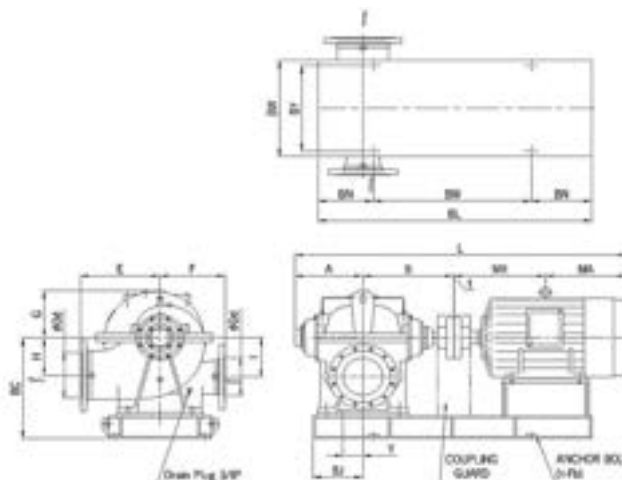
Model	Motor		Size		Pump							Motor				Common Base										Total			
	kW	Ds	Dd	A	B	E	F	G	H	I	wt kg	Frame	MR	MA	wt kg	BC	BJ	BL	BM	BN	BW	BY	n-Fb	wt kg	t	L	wt	kg	
300 x 250 CNFA	37	300	250	440	575	495	405	306	250	260	587	225SC	432	384	327	665	305	1530	2x550	215	620	550	6-M22	208	4	1831	1122		
	45											225MC	444.5	396.5	351									220		1856	1158		
	55											250SC	463.5	419	475									225		1901.5	1287		
	75											250MC	482.5	438	550									230		1935.5	1367		
300 x 250 CNGA	75	300	250	478	620	495	405	313	250	260	638	250MC	482.5	438	550	665	305	1650	2x650	175	620	550	6-M22	241	4	2018.5	1429		
	90											280SC	544	478	660									252		2120	1550		
	110											280MC	569.5	502.5	720									265		2170	1623		
300 x 250 CNHA	110	300	250	478	620	495	405	337	275	295	632	280MC	569.5	502.5	720	695	305	1780	2x715	175	700	630	6-M22	298	4	2170	1650		
	132											315SC	589	527	920									325		2214	1877		
	150											315MC	614.5	552.5	1030									350		2265	2012		
300 x 200 CNJA	150	300	200	467	615	525	415	379	275	320	900	315MC	614.5	552.5	1030	675	305	1900	2x735	215	830	8-M24	380	4	2249	2310			
	185											315MB	614.5	552.5	1070								380		2249	2350			
	220											355M	744	1013	1550			2180	3x580	900	220	8-M24	420		2578	2870			
	260											355M	744	1013	1650								462		2728	3012			
	300											355L	779	978	1900								500		2728	3300			
300 x 200 CNKA	220	300	200	505	675	570	475	434	290	380	1118	355M	744	1013	1550	785	340	2270	3x590	220	900	8-M22	427	5	2676	3095			
	260											355M	744	1013	1660								467		2826	3245			
	300											355L	779	978	1900			2315	3x625	950	720	8-M24	512		2826	3530			
	335											355L	779	978	1900								512		3026	3530			
	375											355C	819	1015	2340								664		2950	4122			
	450											355CB	874	1065	2500			225	2520	3x690	225	870	8-M24		664	3119	4282		

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

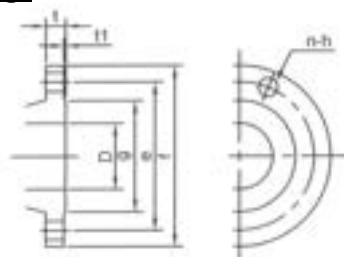
(Optional: Gland Packing Type)

50 Hz

Pump



Flange

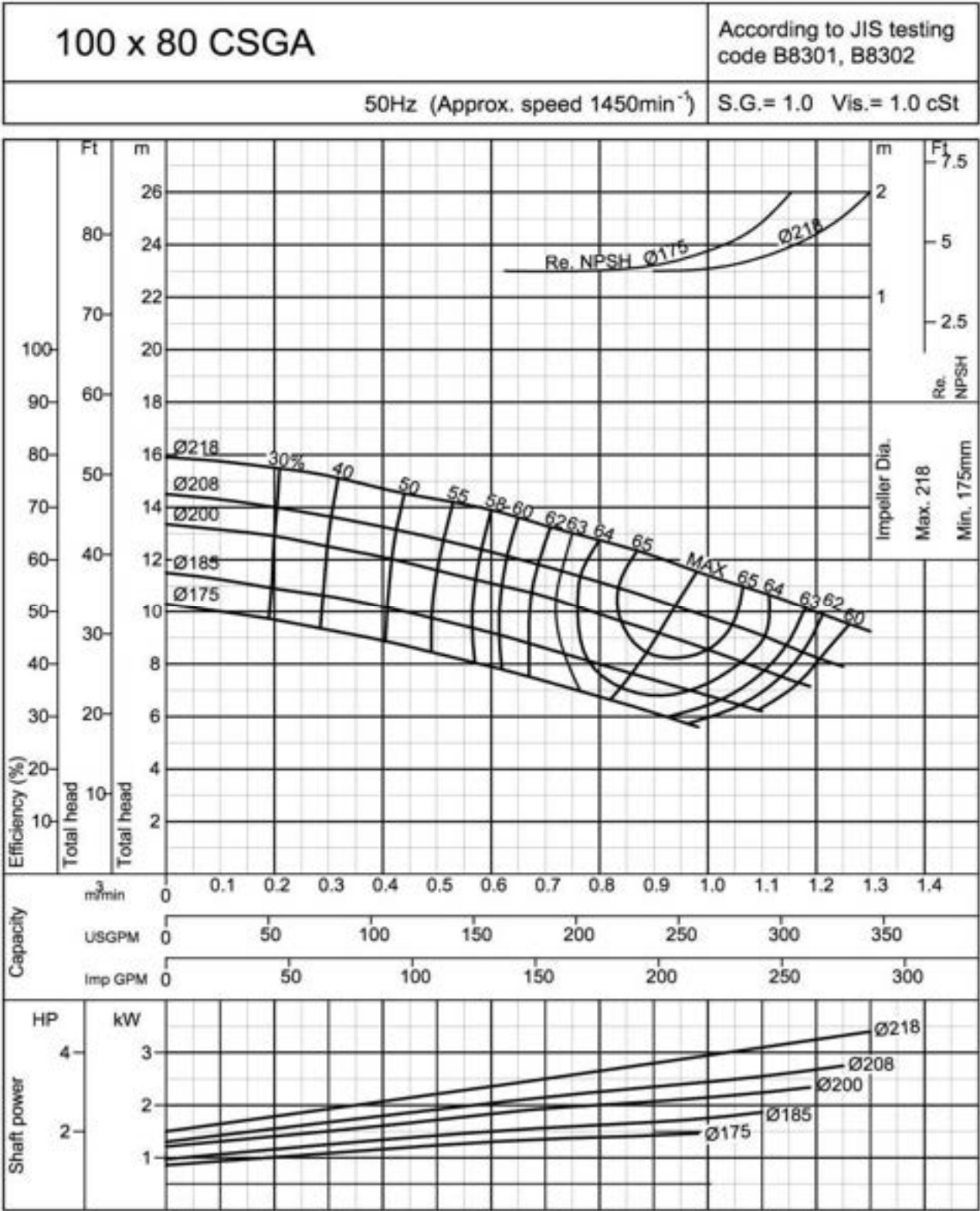


Dimension - Flange

D mm	f mm	e mm	g mm	t1 mm	t mm	n	h 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

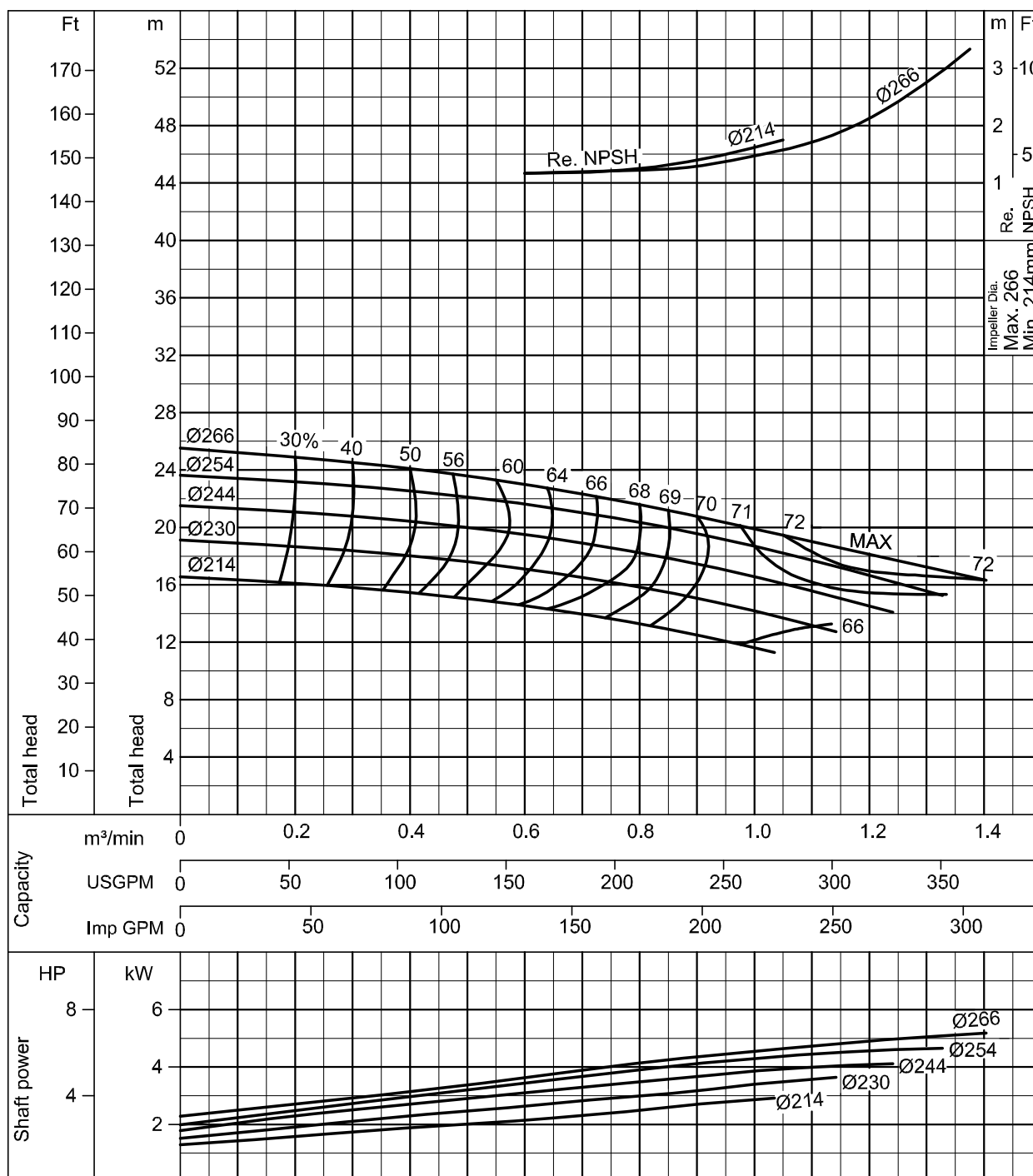
Dimension - Pump

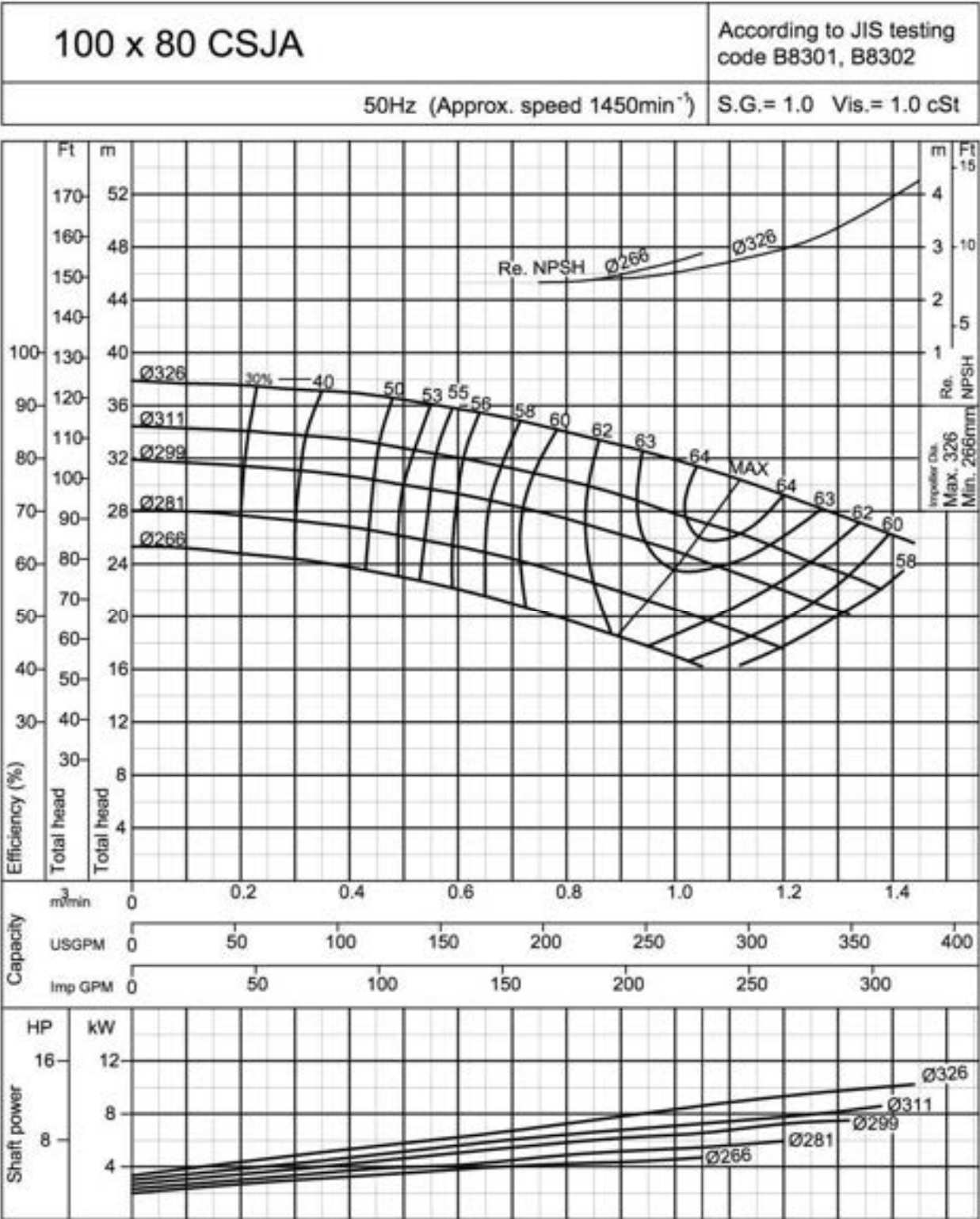
Model	Motor		Pump								Motor				Common Base										Total		
	kW	Ds	Dd	A	B	E	F	G	H	I	wt kg	Frame	MR	MA	wt kg	BC	BJ	BL	BM	BN	BW	BY	n-Fb	wt kg	t	L	wt kg
350 x 300 CNFA	75											250MC	482.5	438	550	772		1710	2x640					299		2018.5	1685
	90											280SC	544	478	660			1790	2x680					340		2120	1836
	110											280MC	569.5	502.5	720			1840	2x705					374		2170	1930
	132											315SC	589	527	920			1860	2x715					380		2214	2136
350 x 250 CNGA	110											280MC	569.5	502.5	720			1840	2x705					374		2170	1917
	132											315SC	589	527	920			1840	2x705					380		2214	2123
	150											315MC	614.5	552.5	1030			1900	2x735					390		2265	2243
	185											315MB	614.5	552.5	1070			1950	2x760					390		2265	2283
350 x 250 CNHA	185											315MB	614.5	552.5	1070			1950	2x760					300		2313	2255
	220											355M	744	1010	1550			2260	3x610					341		2900	2776
	260											355M	744	1013	1650			2260	3x610					393		2904	2928
	300											355L	779	978	1900			2320	3x630					450		2904	3235
	335											355C	819	1016	2340			2440	3x670					450		2982	3675
400 x 350 CNEA	90											280SC	544	478	660			1920	2x745					343		2251	2065
	110											280MC	569.5	502.5	720			1960	2x765					374		2309	2156
	132											315SC	589	527	920			1980	2x775					385		2353	2367
	150											315MC	614.5	552.5	1030			2080	3x550					402		2404	2494
400 x 350 CNFA	132											315SC	589	527	920			1950	2x760					375		2312	2371
	150											315MC	614.5	552.5	1030			2000	3x520					407		2363	2513
	185											315MB	614.5	552.5	1070			2000	3x520					407		2363	2553
	220											355M	744	1010	1550			2150	3x570					412		2951	3038



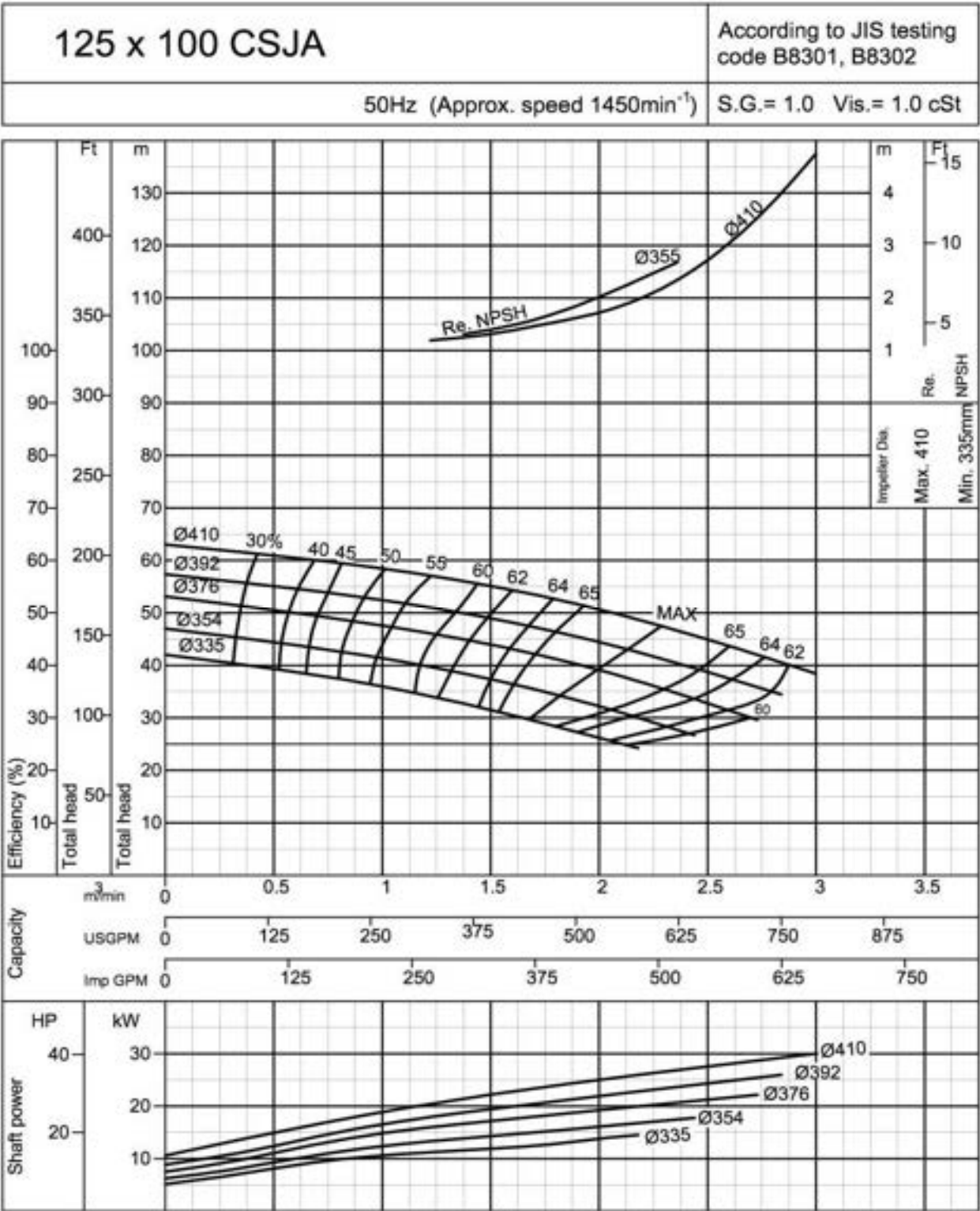
Curve No. CN5401R0

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

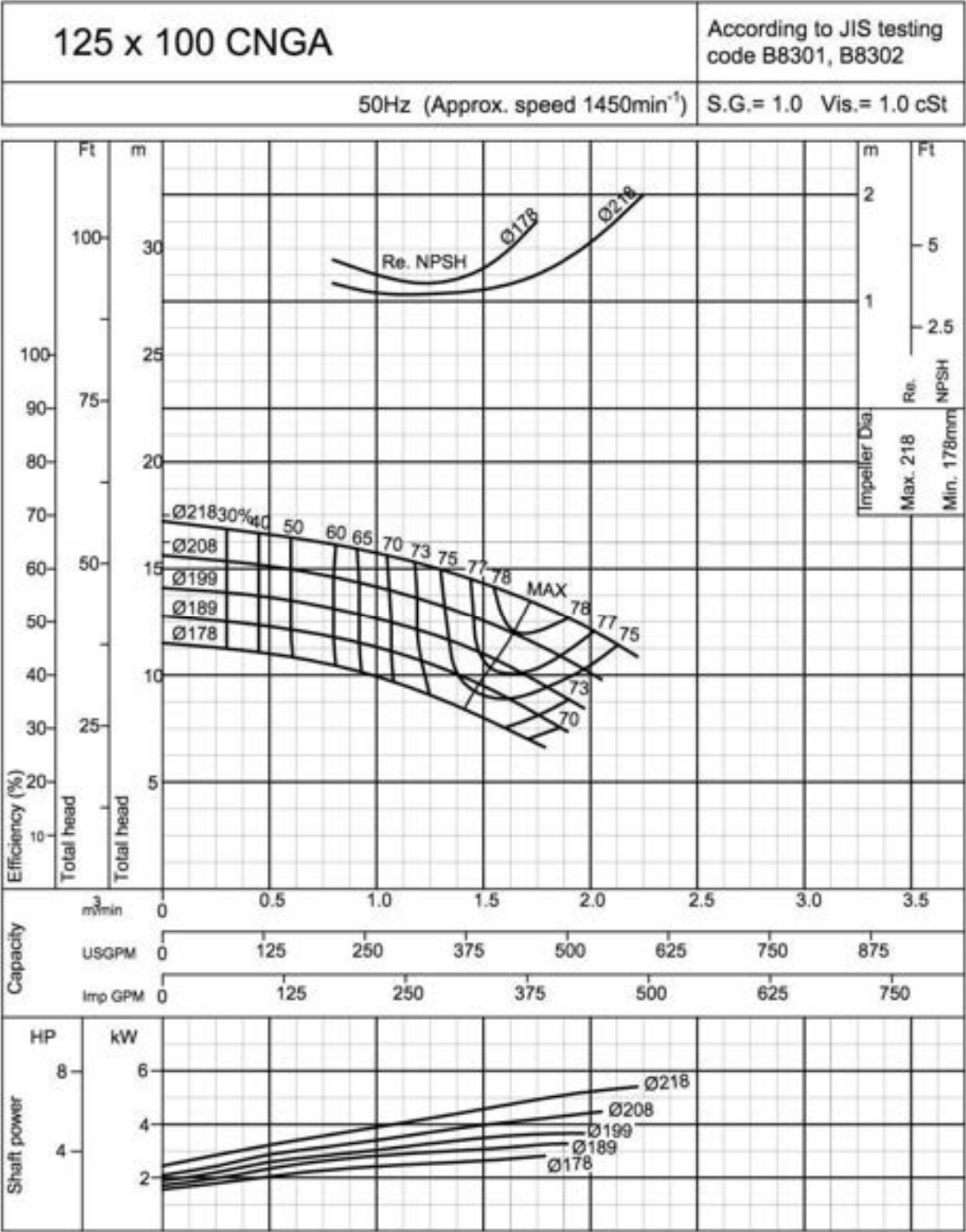




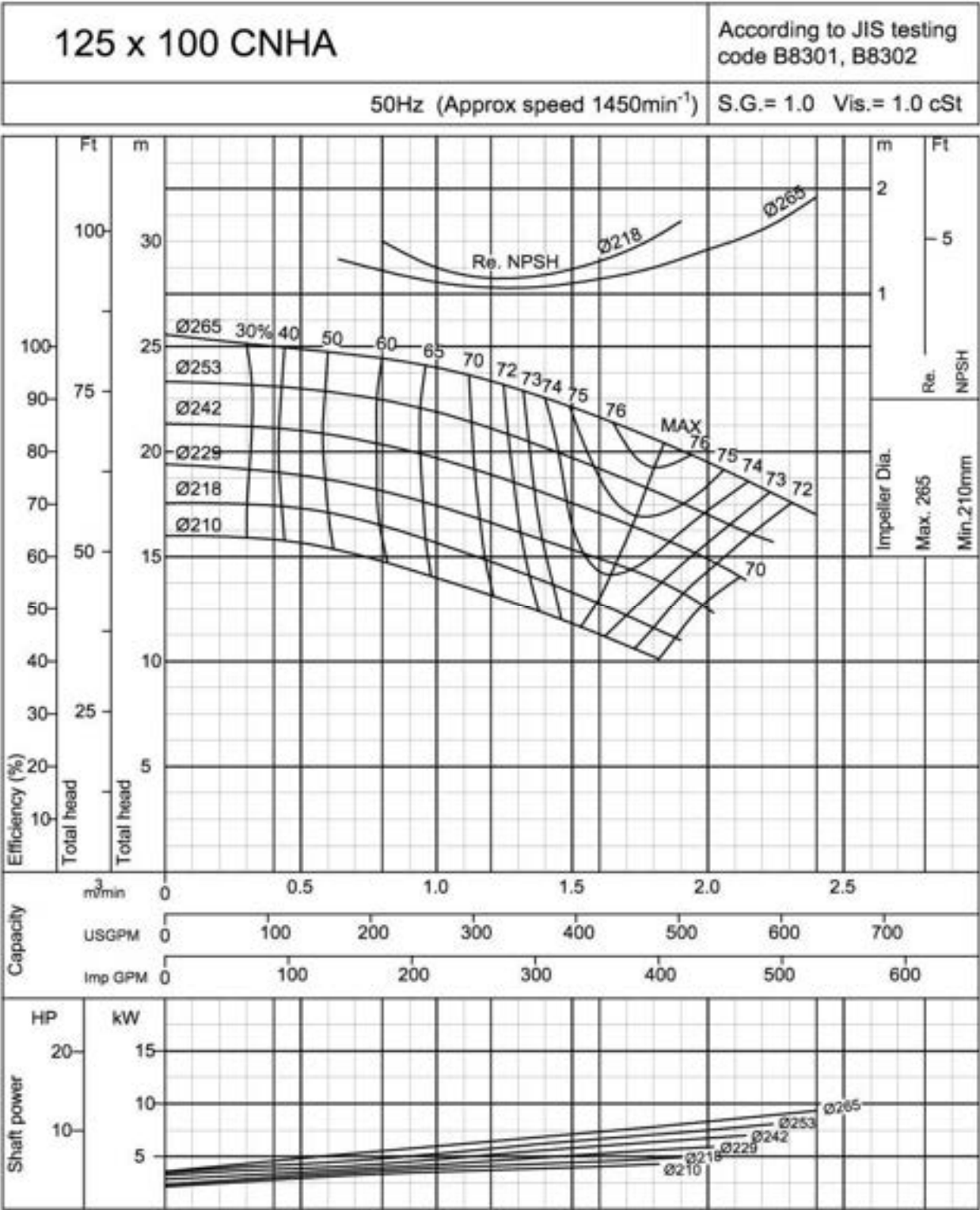
Curve No. CN5403R0



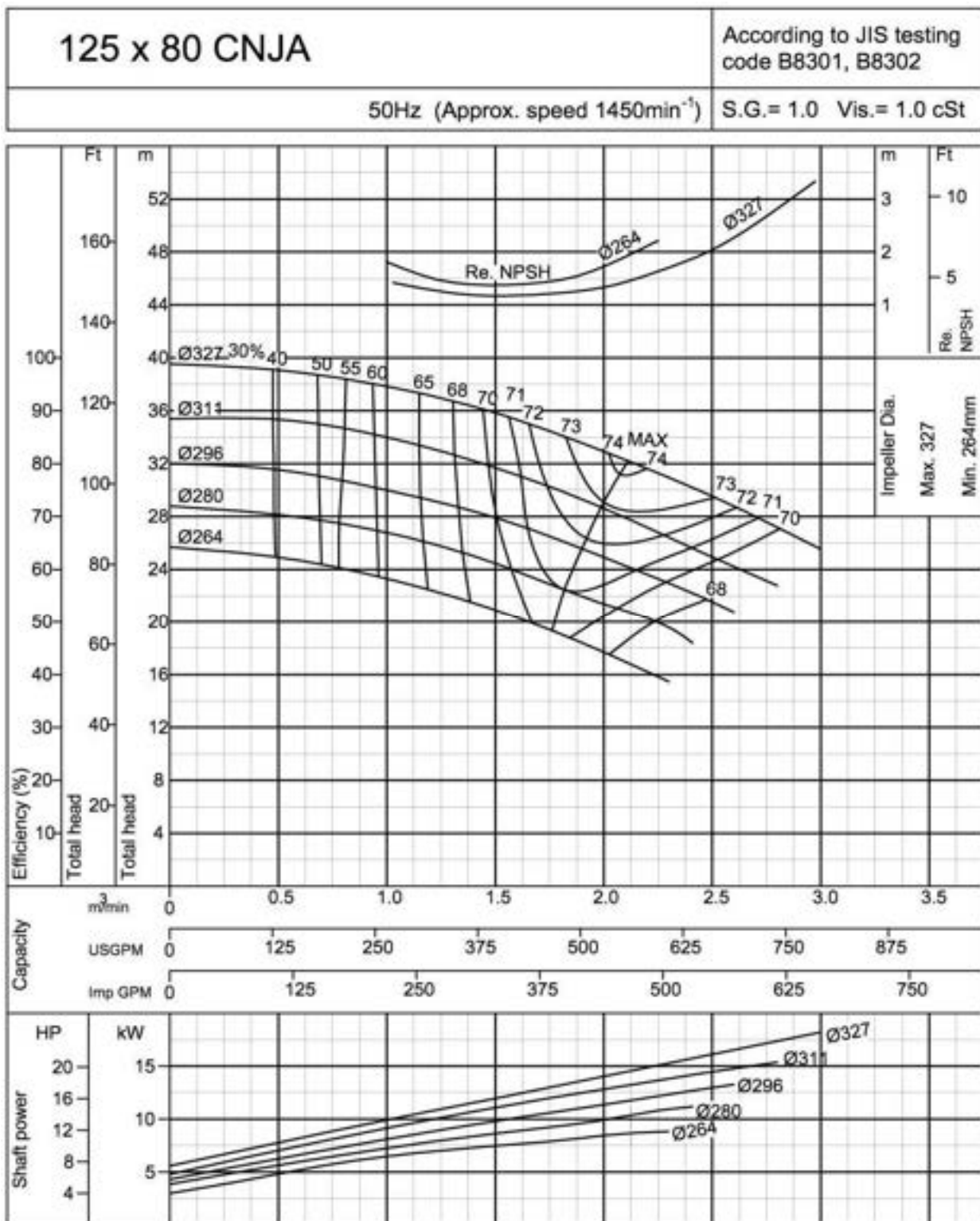
Curve No. CN5404R0

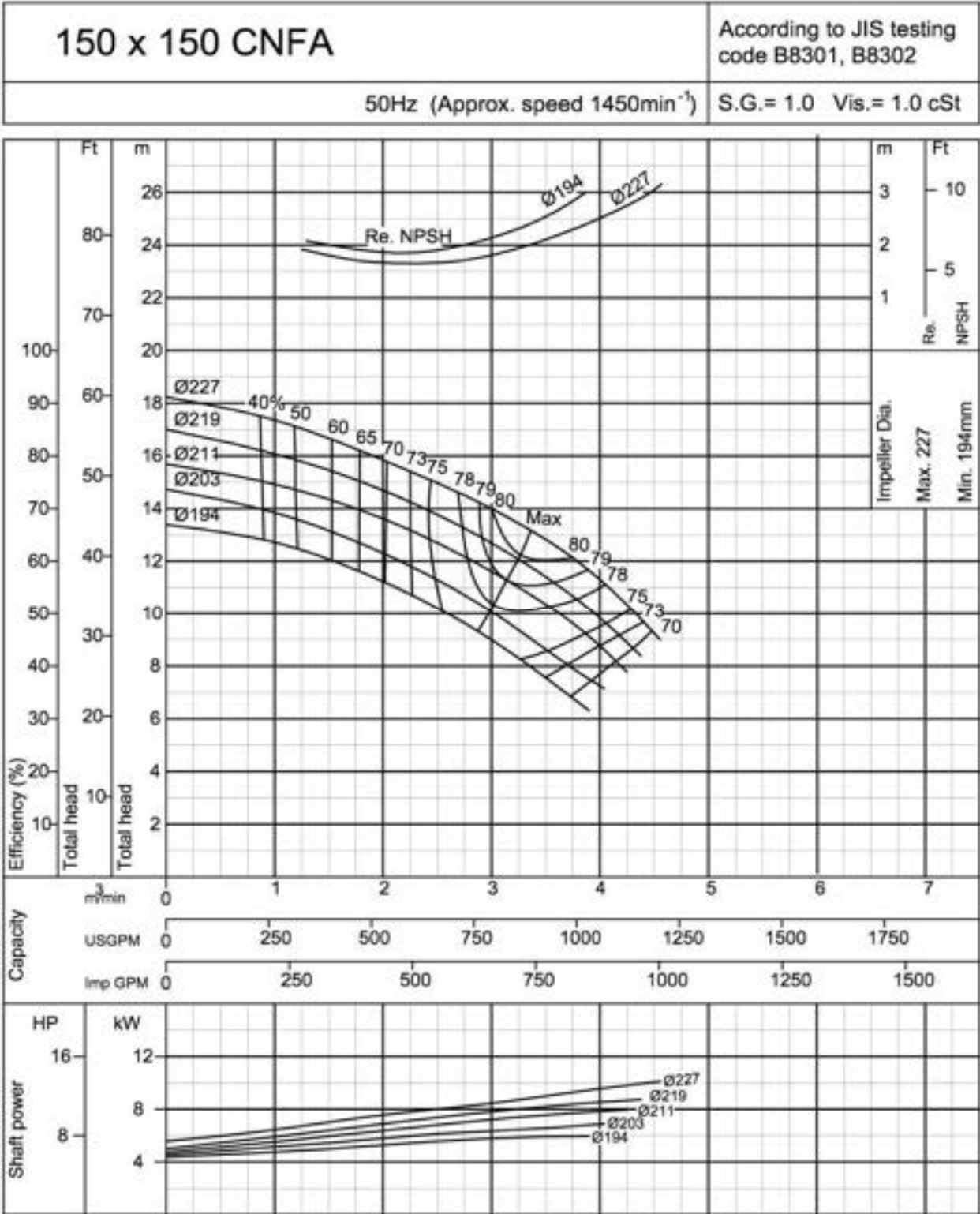


Curve No. CN5405R0

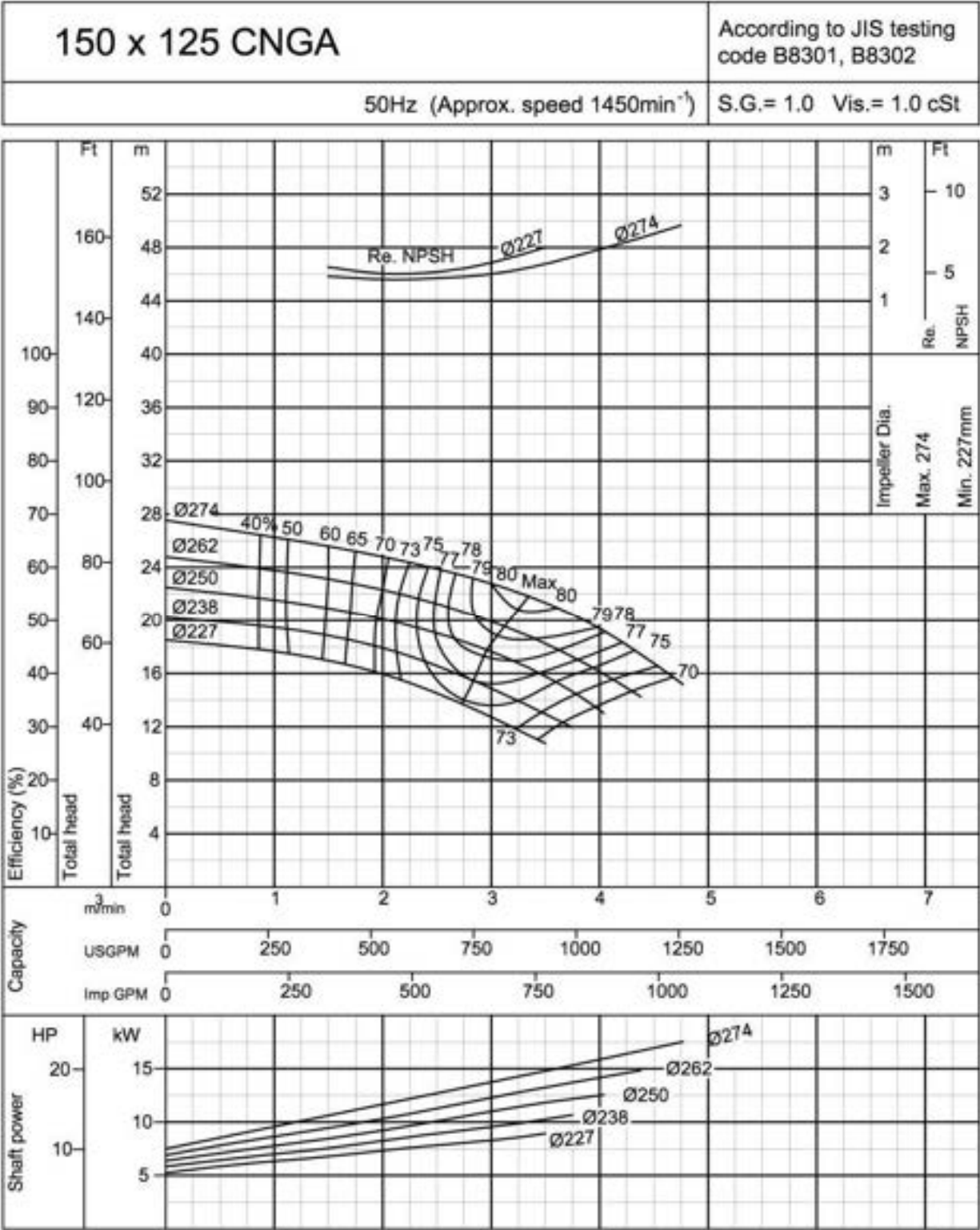


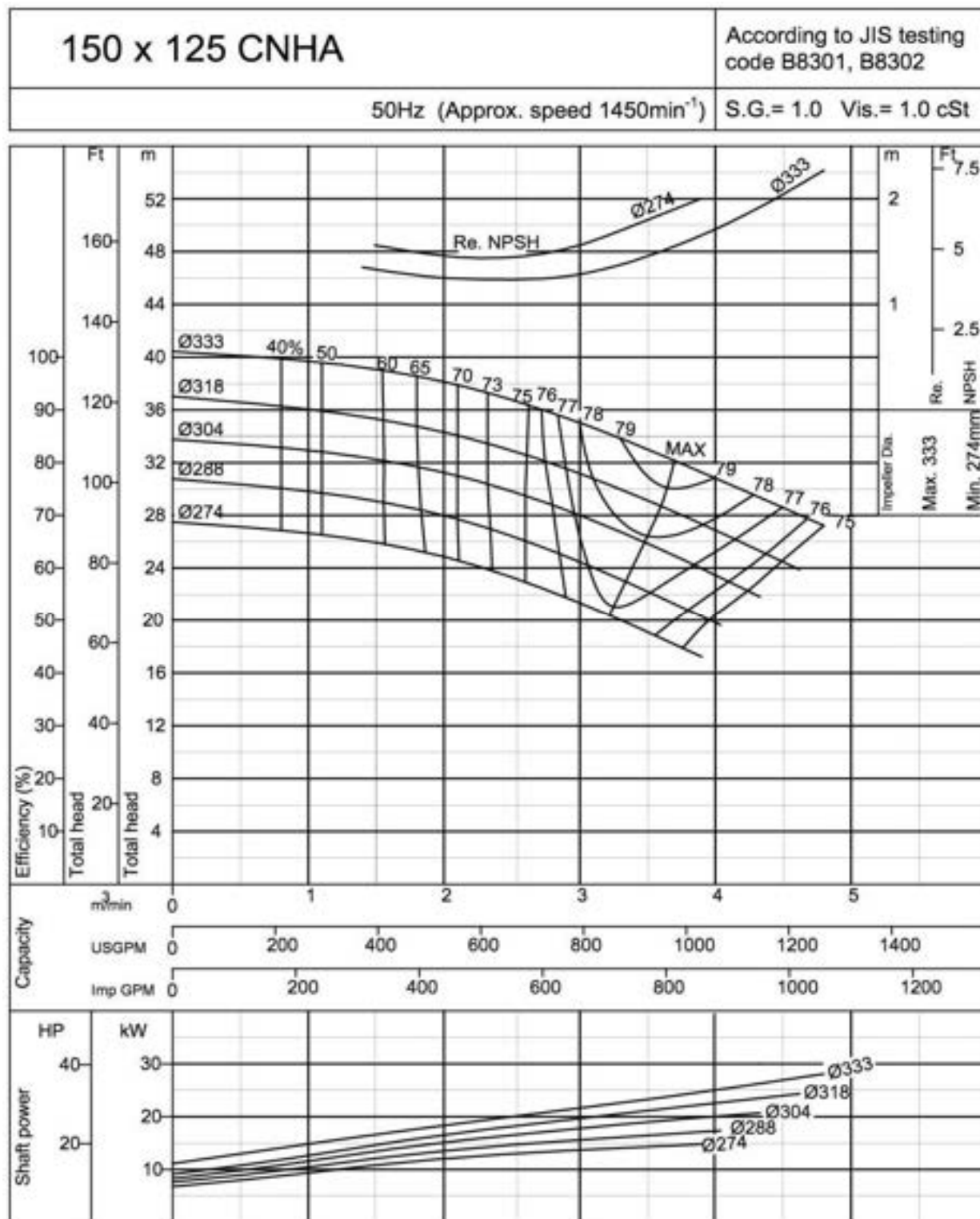
Curve No. CN5406R0





Curve No. CN5408R0





Curve No. CN5410R0

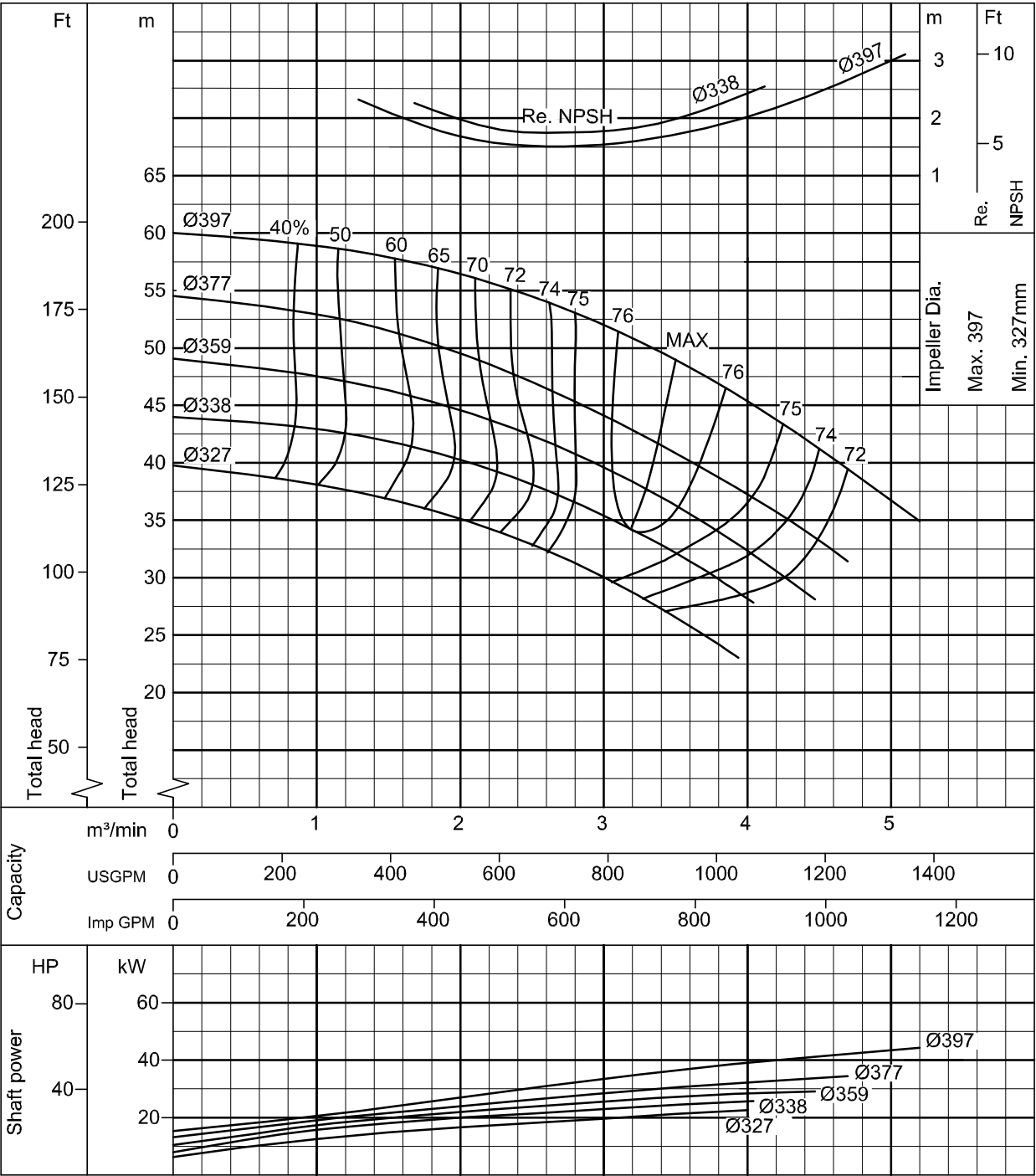
Ebara Horizontal Split Casing Pump

Model **CNA**

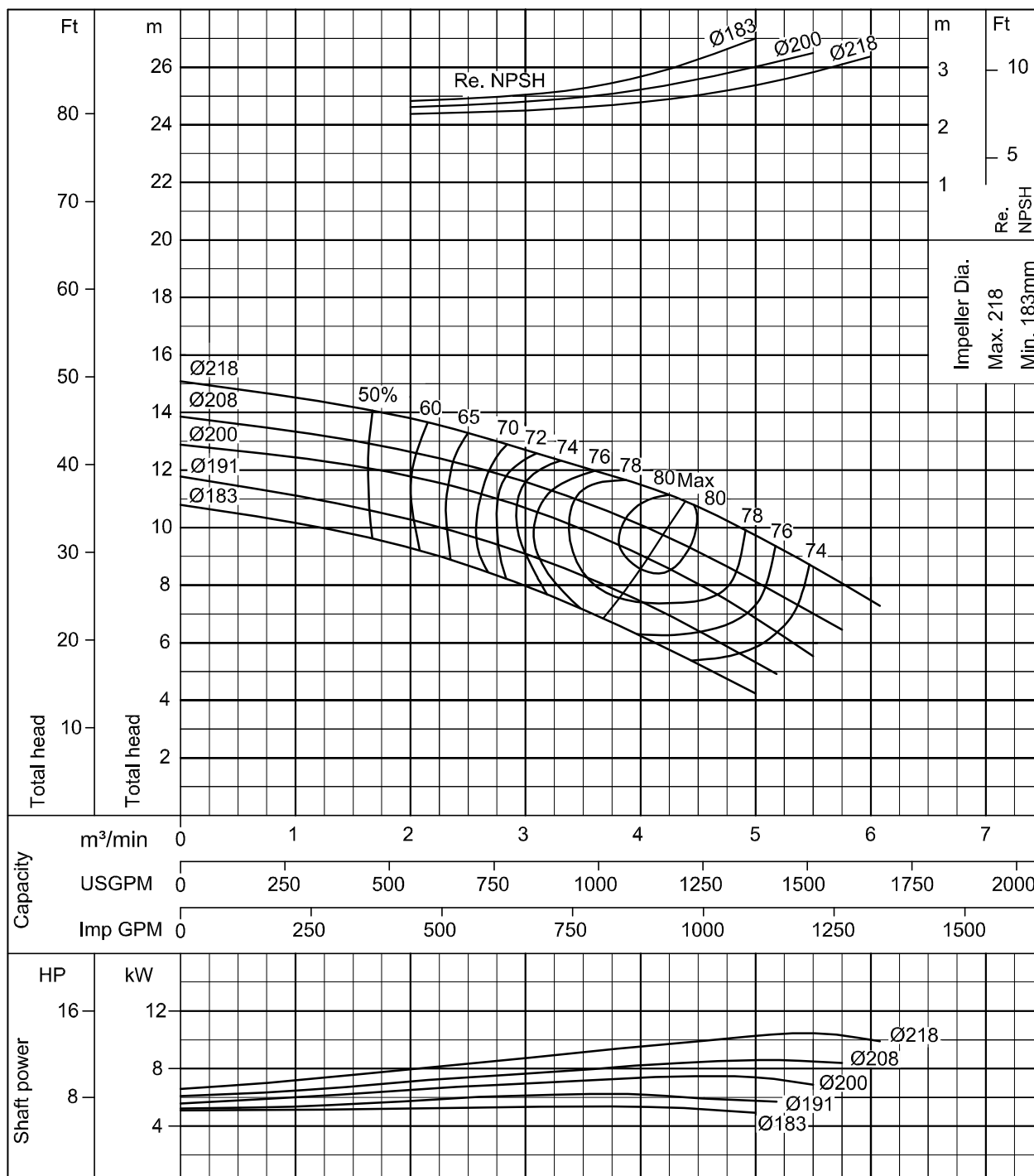
Performance Curve

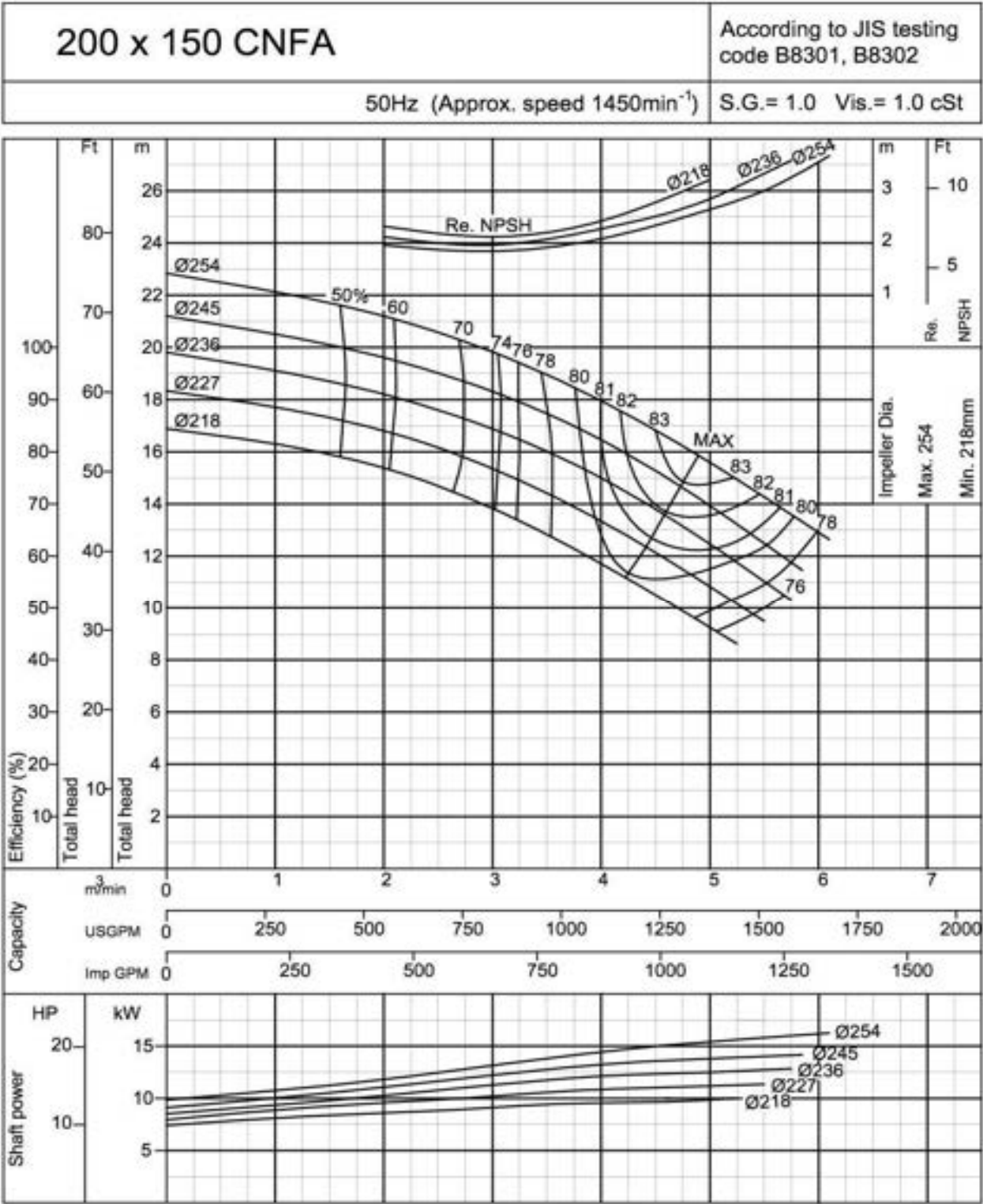
50Hz

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

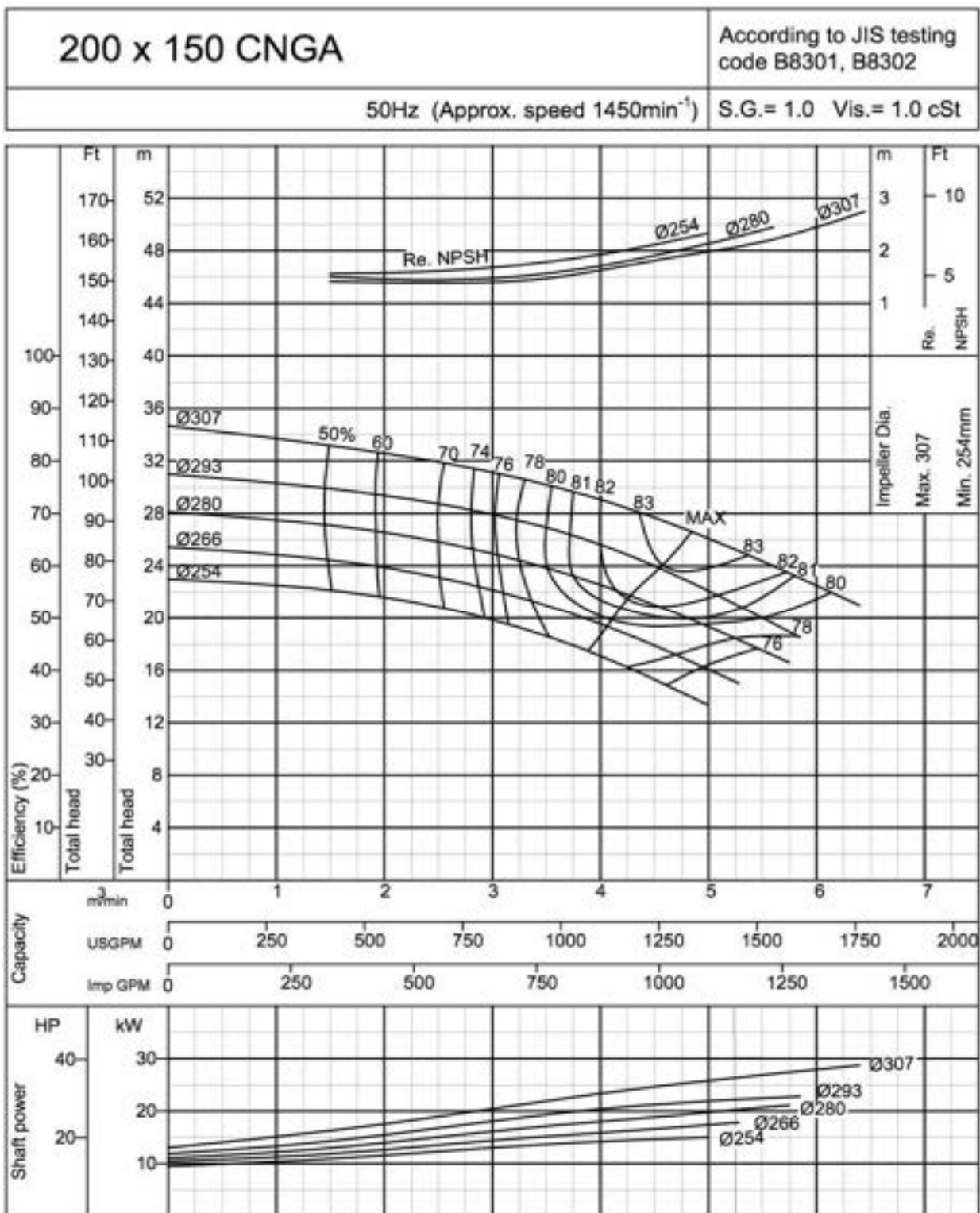


200 x 200 CNEA	According to JIS testing code B8301, B8302
50Hz (Approx. speed 1450min ⁻¹)	S.G.= 1.0 Vis.= 1.0 cSt





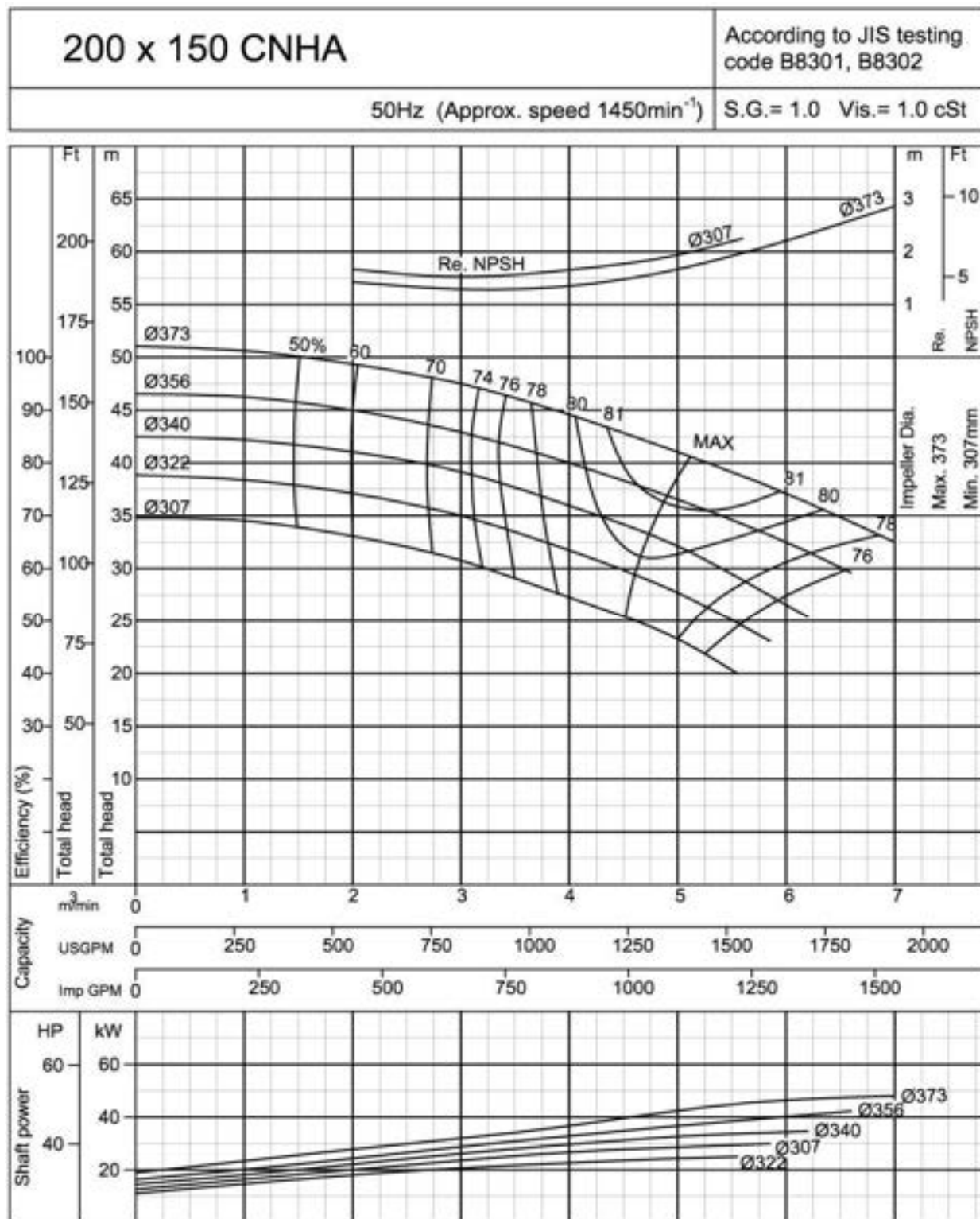
Curve No. CN5413R0



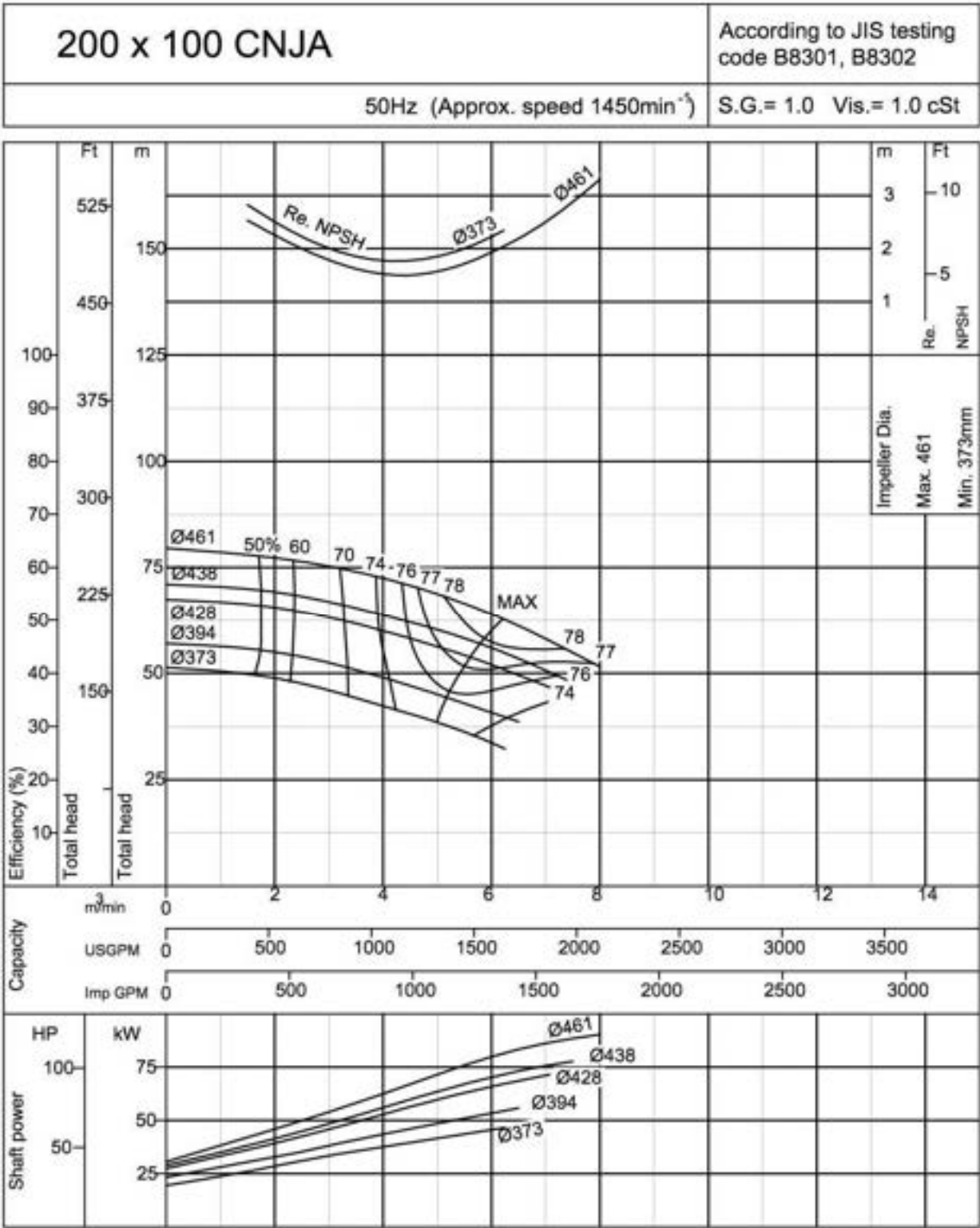
Curve No. CN5414R0

Performance Curve

50 Hz



Curve No. CN5415R0

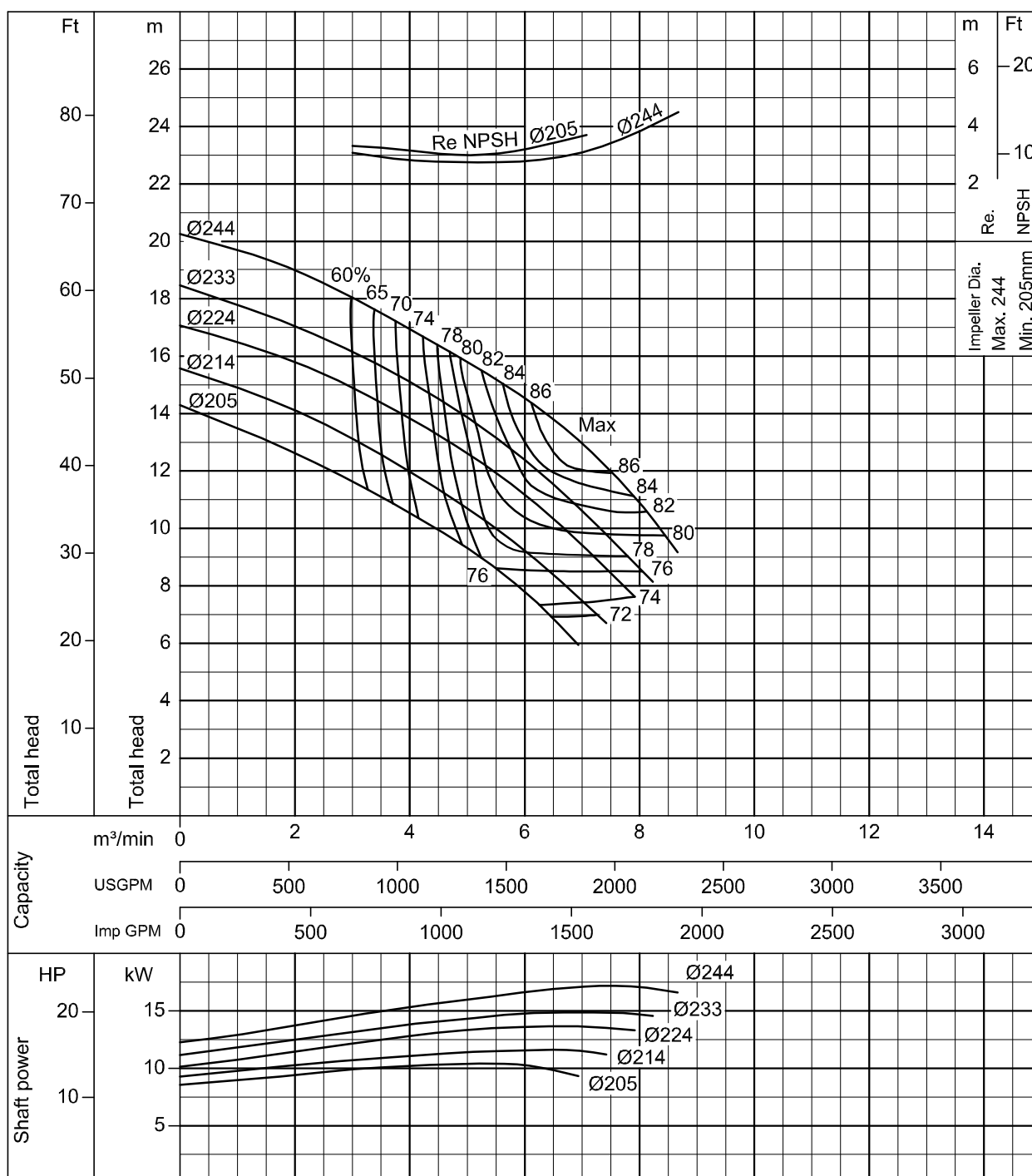


Performance Curve

50Hz

250 x 200 CNEAAccording to JIS testing
code B8301, B830250Hz (Approx. speed 1450min⁻¹)

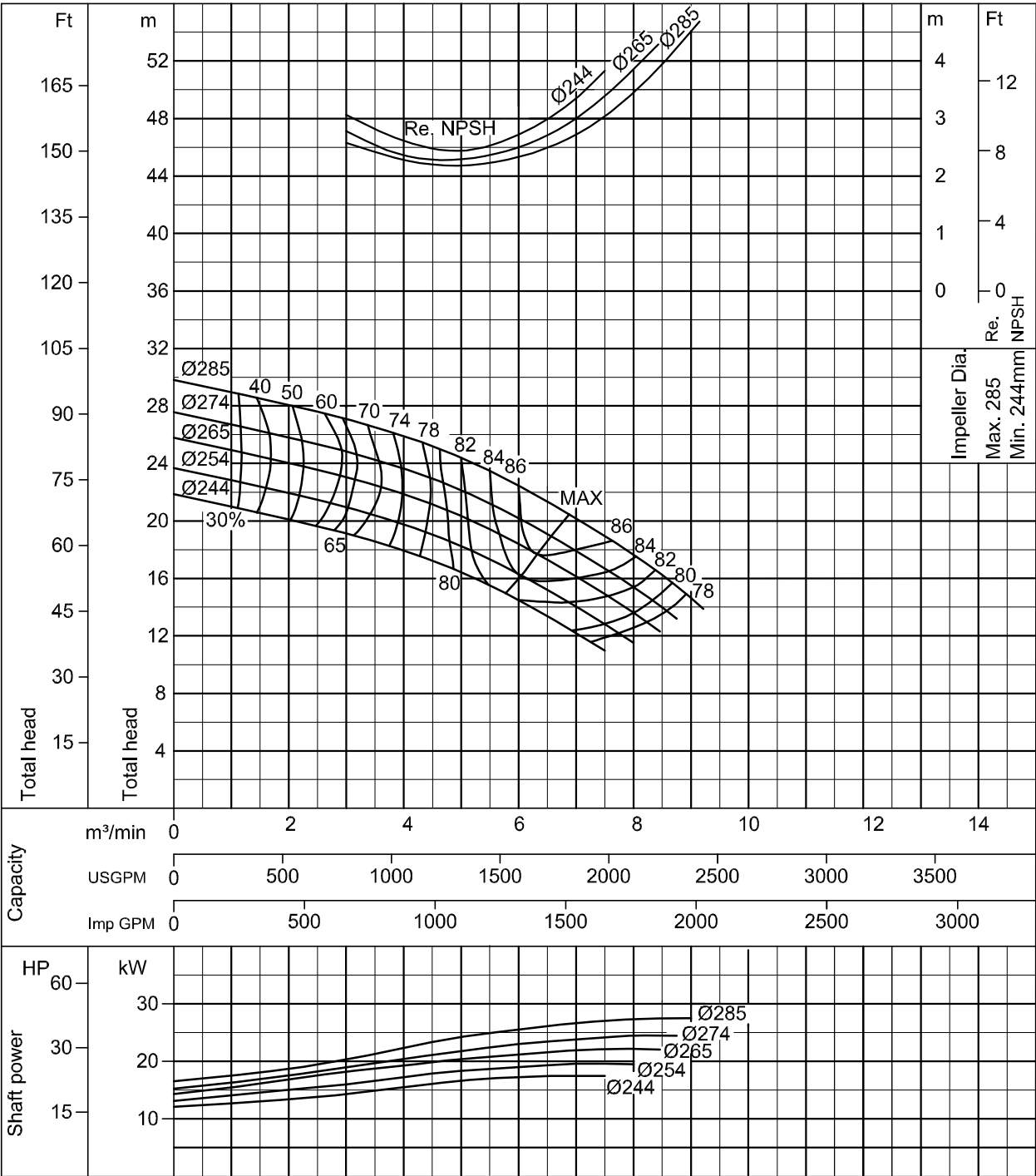
S.G.= 1.0 Vis.= 1.0 cSt

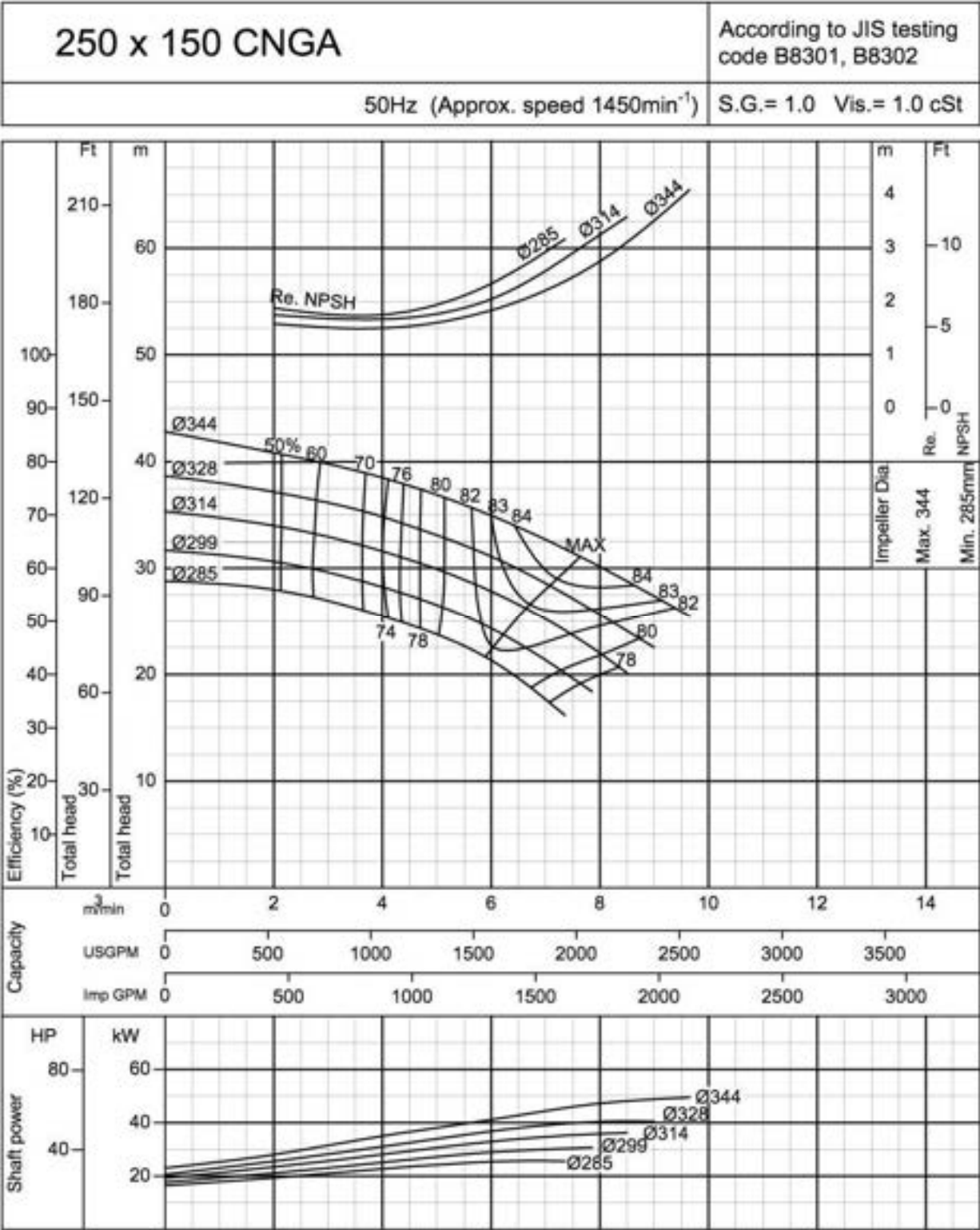


Performance Curve

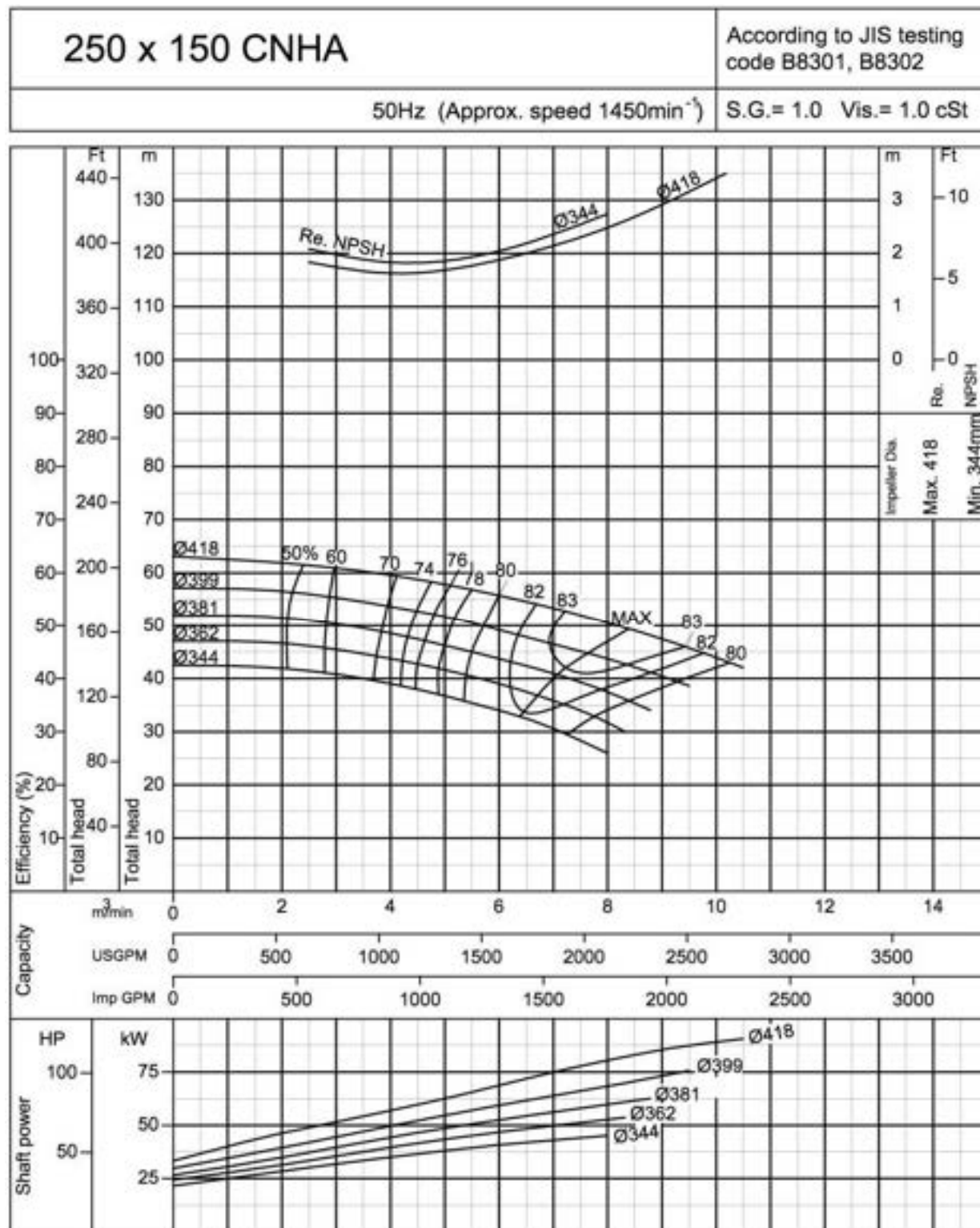
50Hz

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

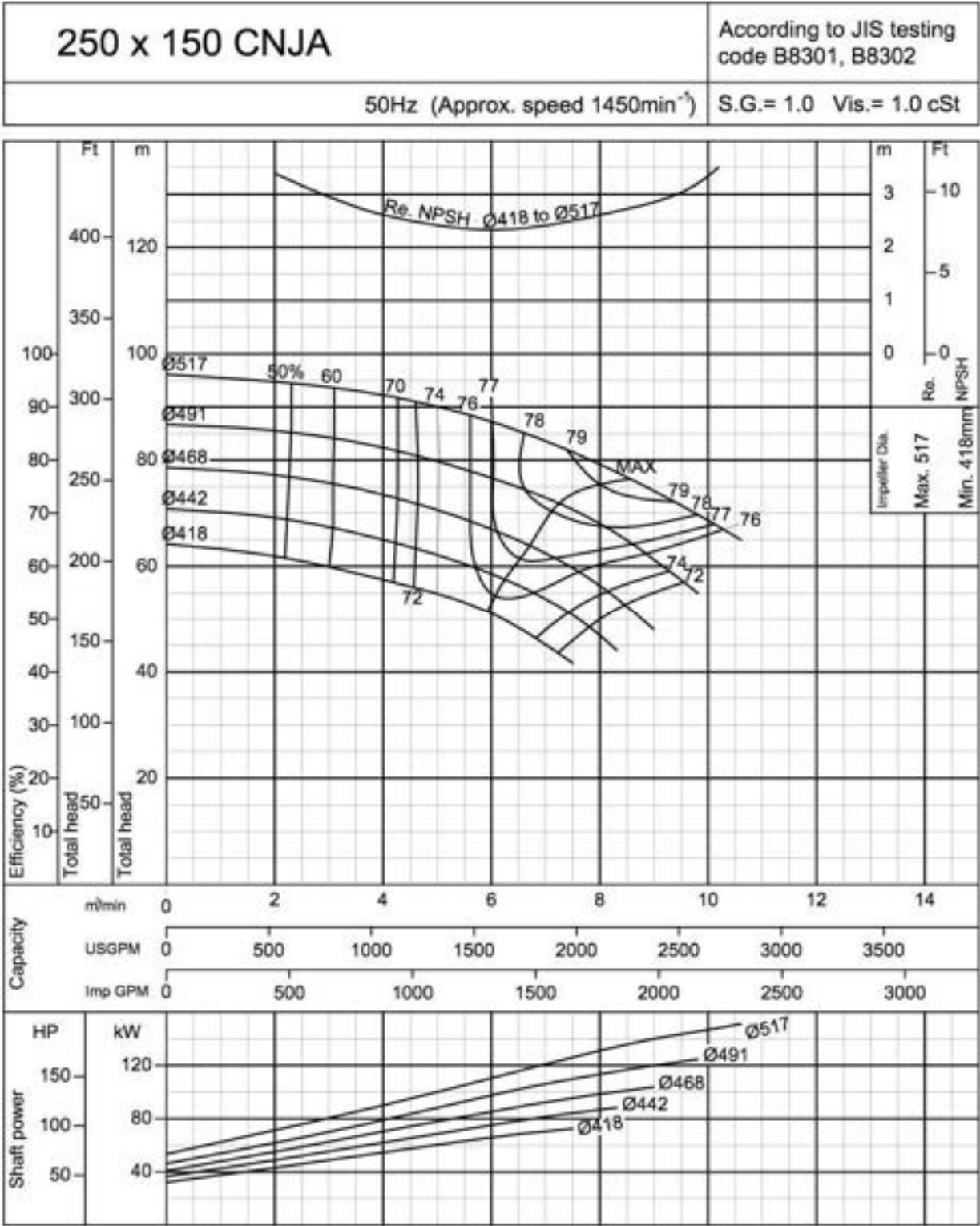




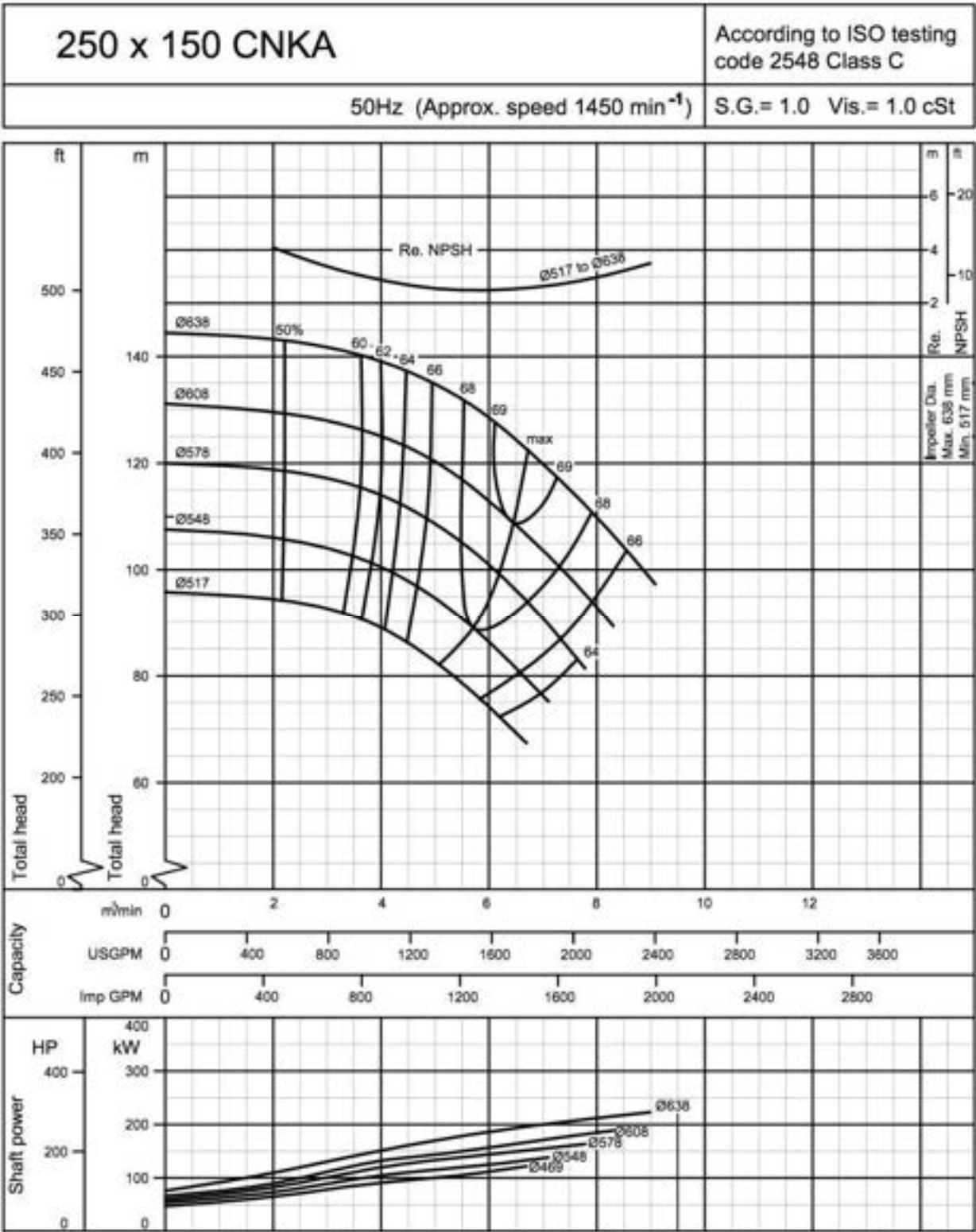
Curve No. CN5419R0



Curve No. CN5420R0



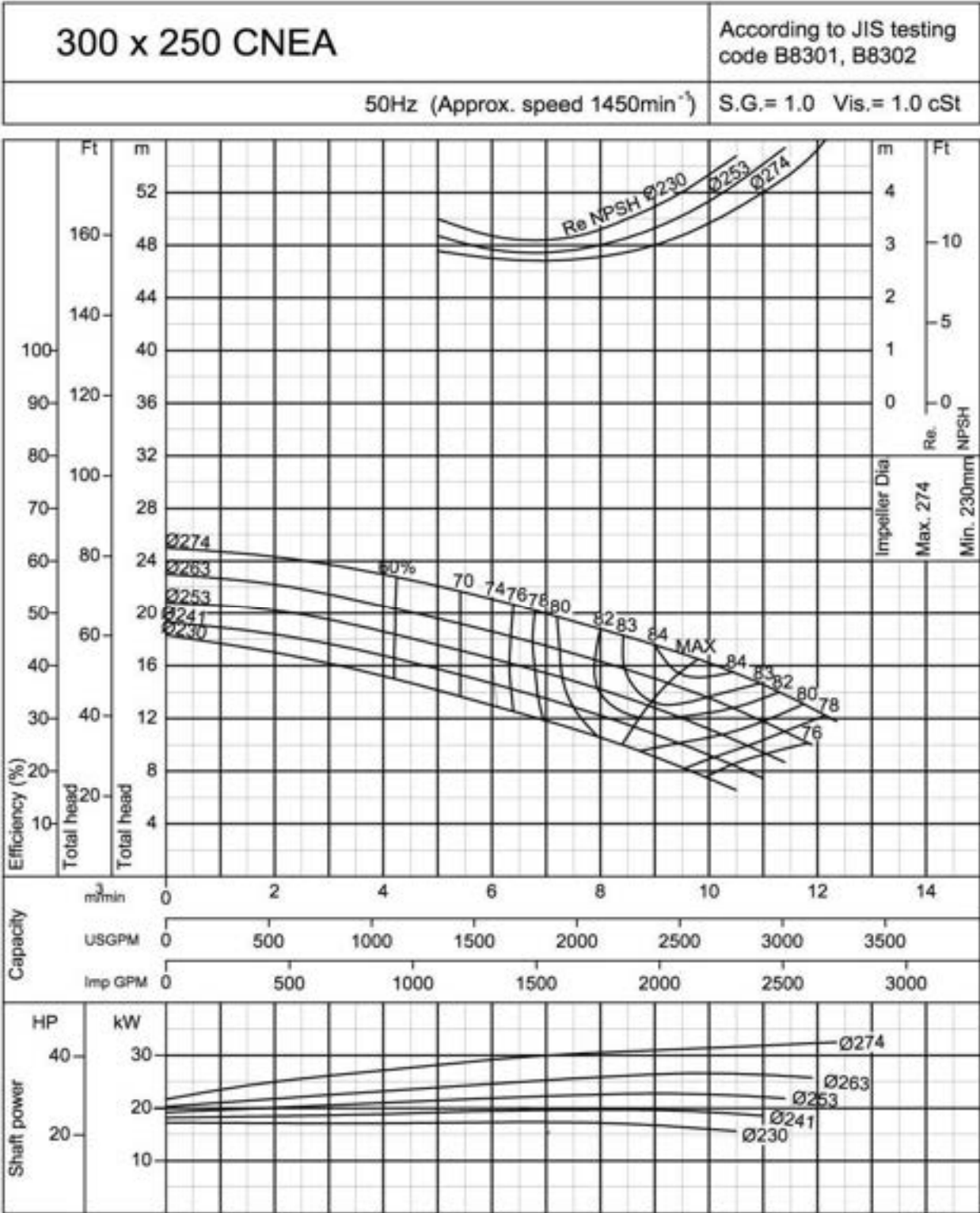
Curve No. CN5421R0



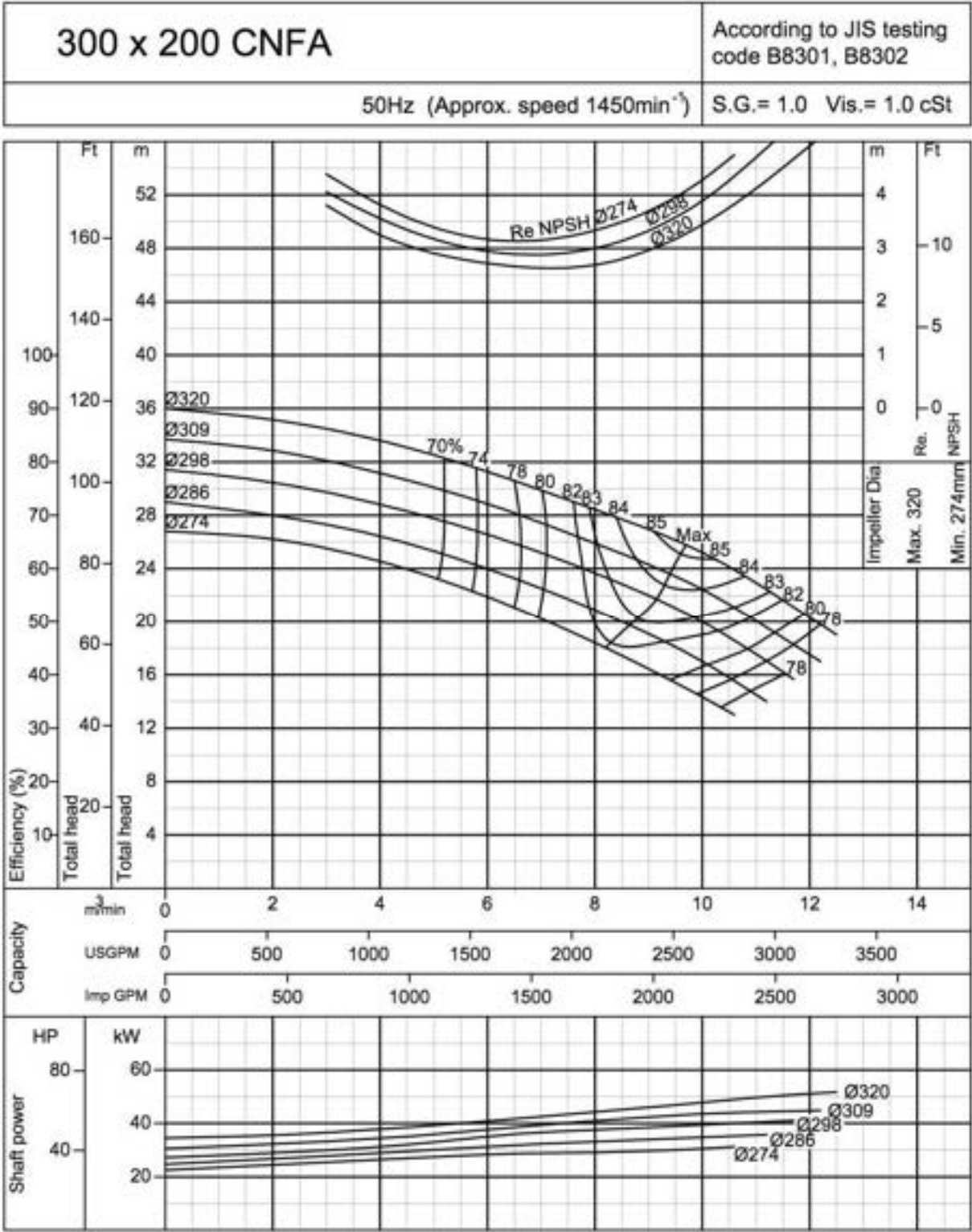
Curve No. CN5422R0

Performance Curve

50 Hz



Curve No. CN5423R0



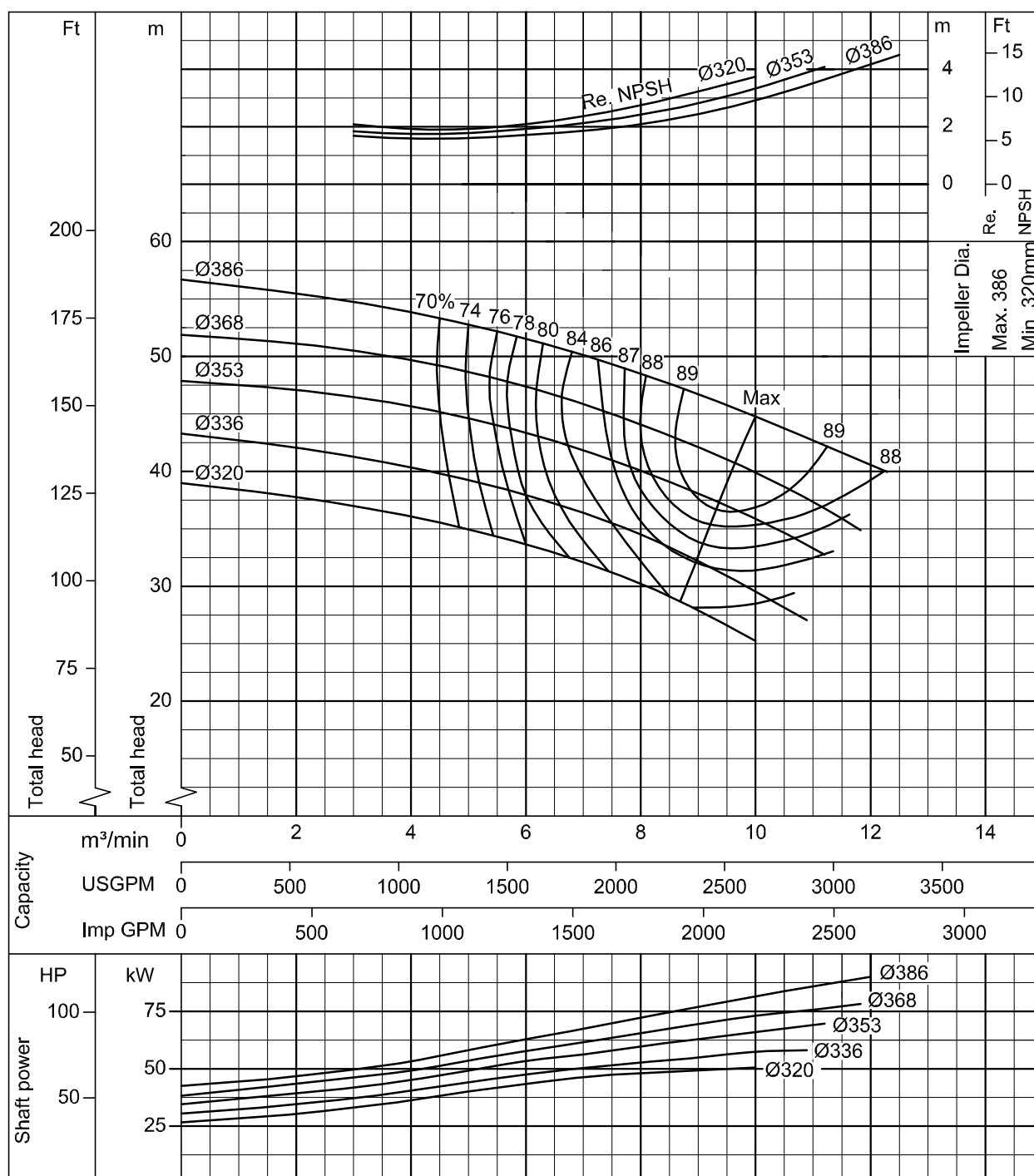
Curve No. CN5424R0

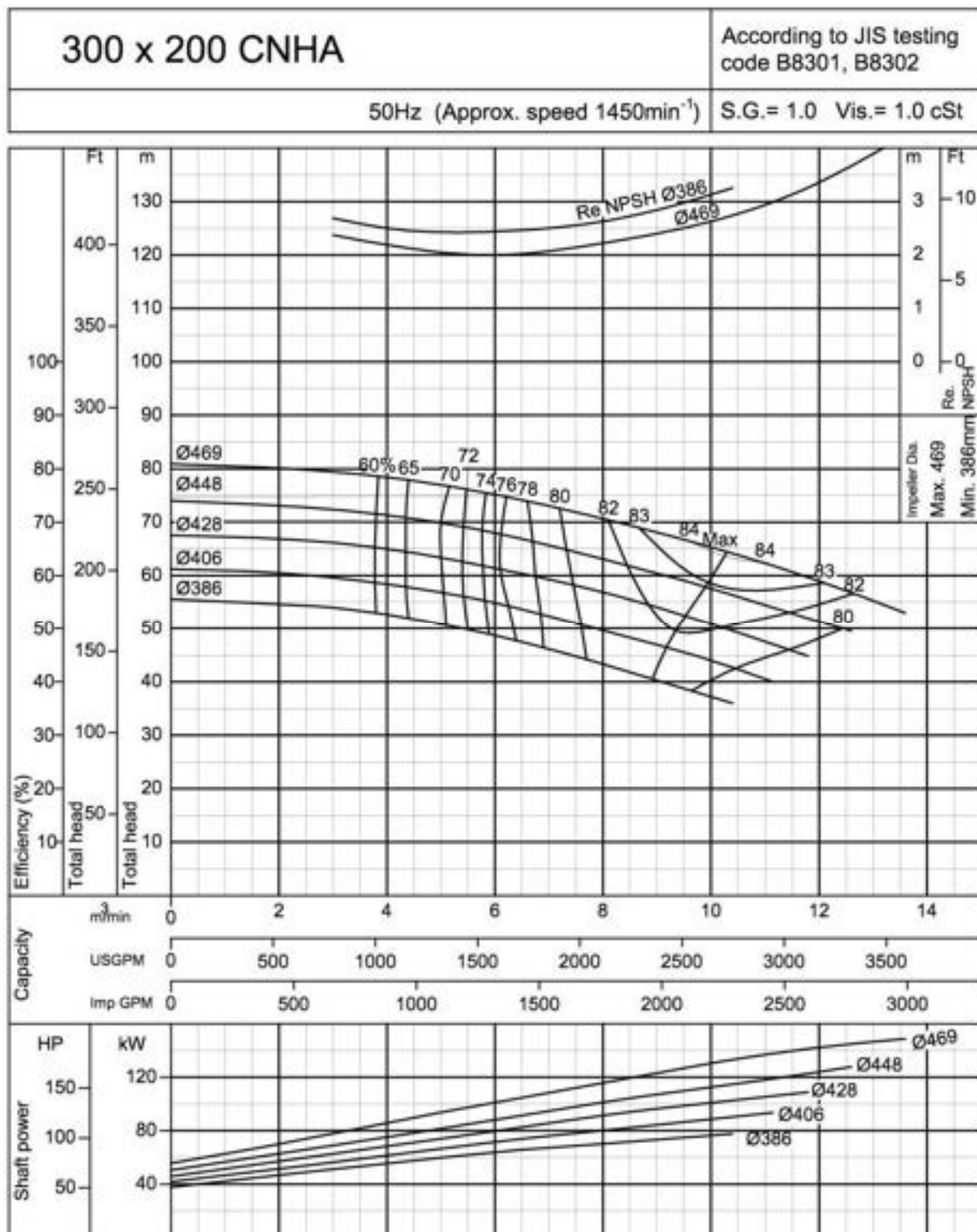
Performance Curve

50Hz

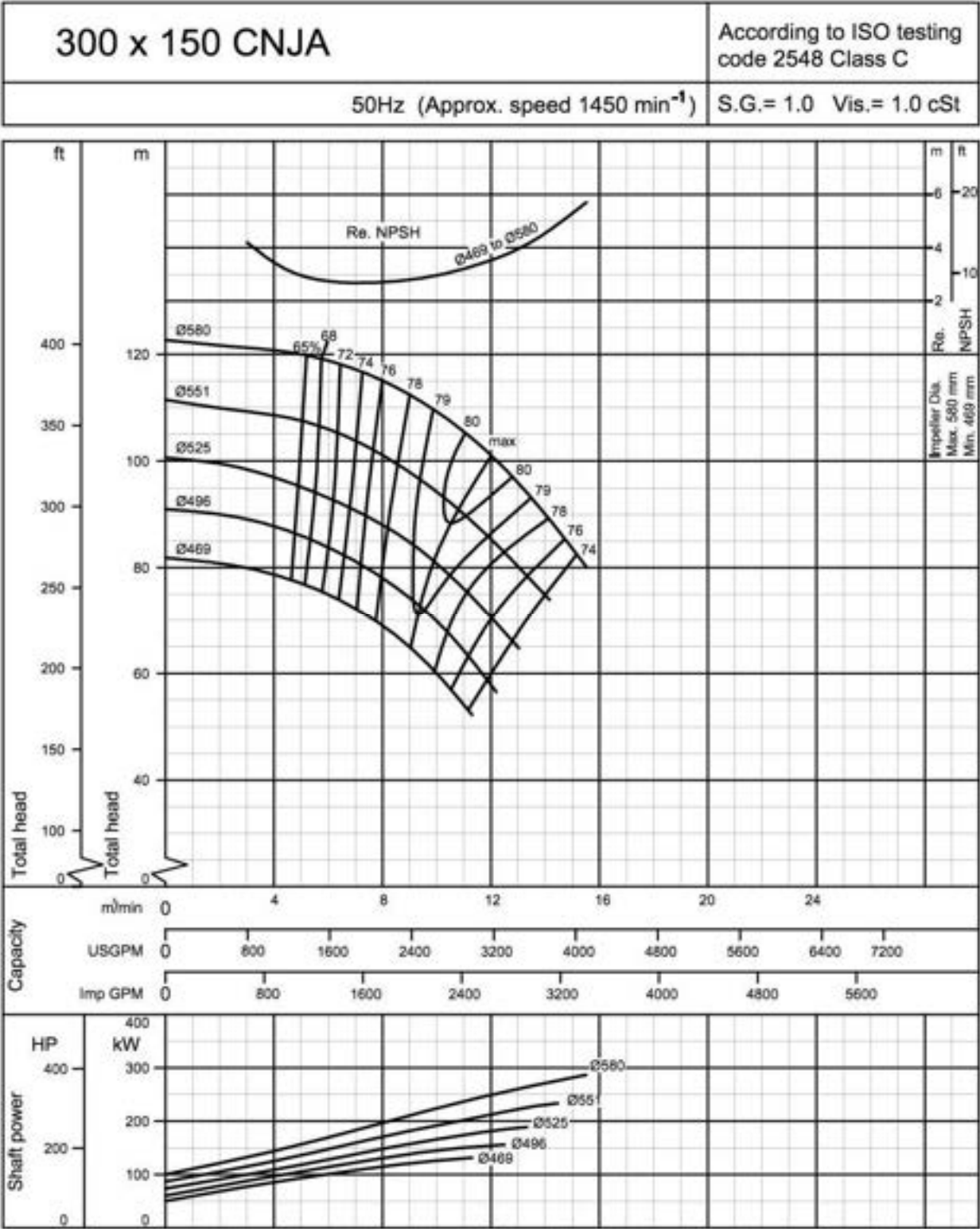
300 x 200 CNGAAccording to JIS testing
code B8301, B830250Hz (Approx. speed 1450min^{-1})

S.G.= 1.0 Vis.= 1.0 cSt





Curve No. CN5426R0

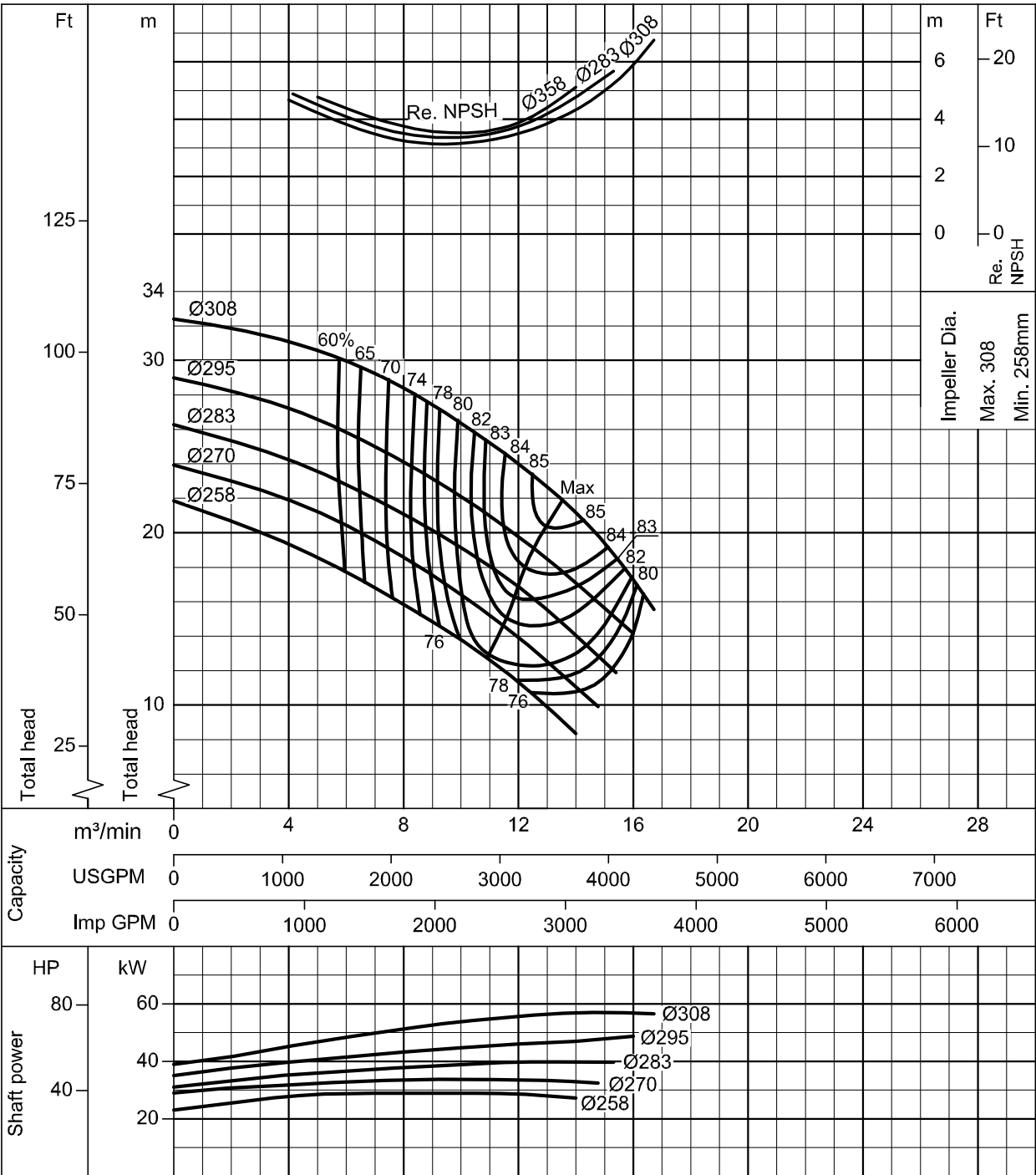


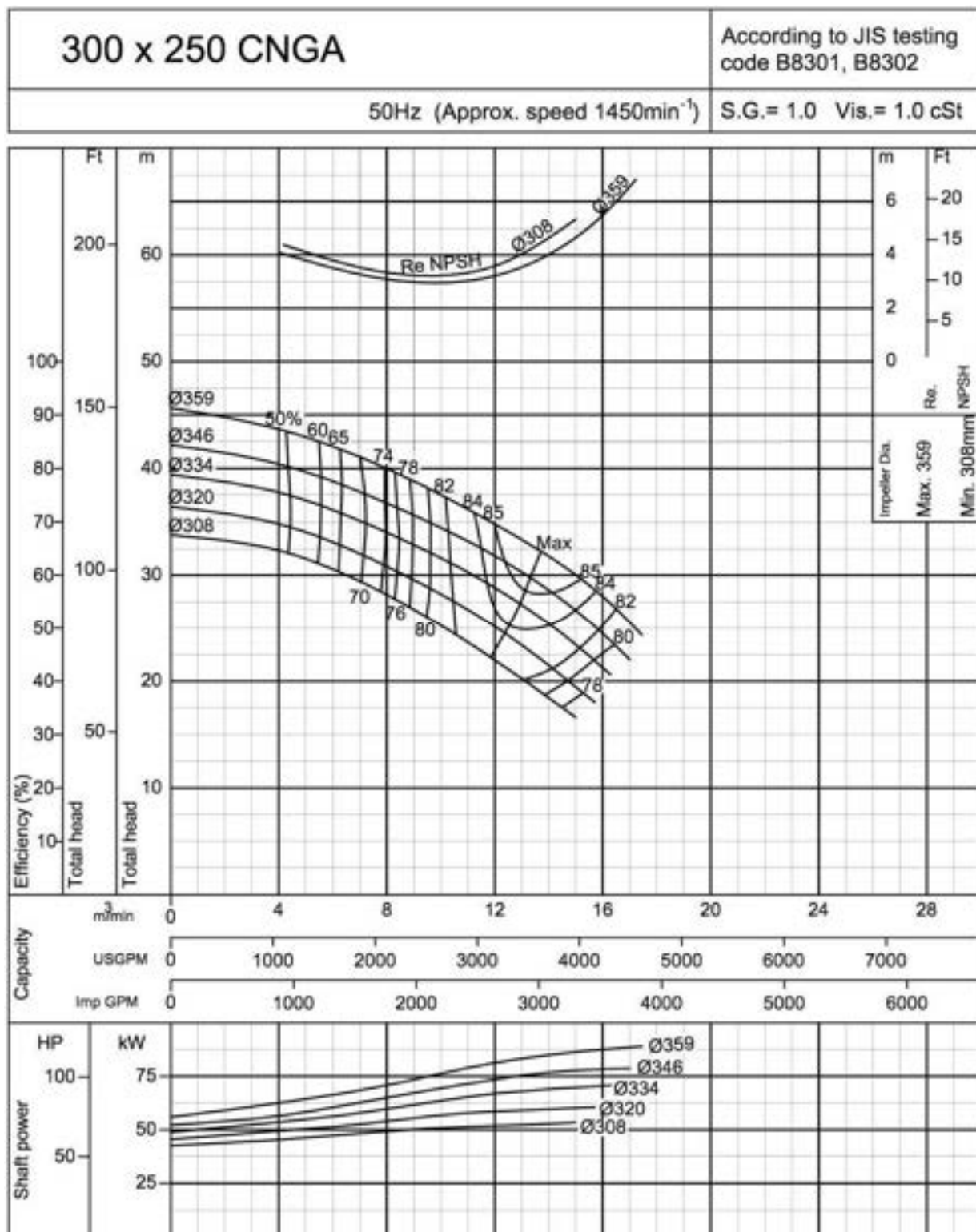
Curve No. CN5427R0

Performance Curve

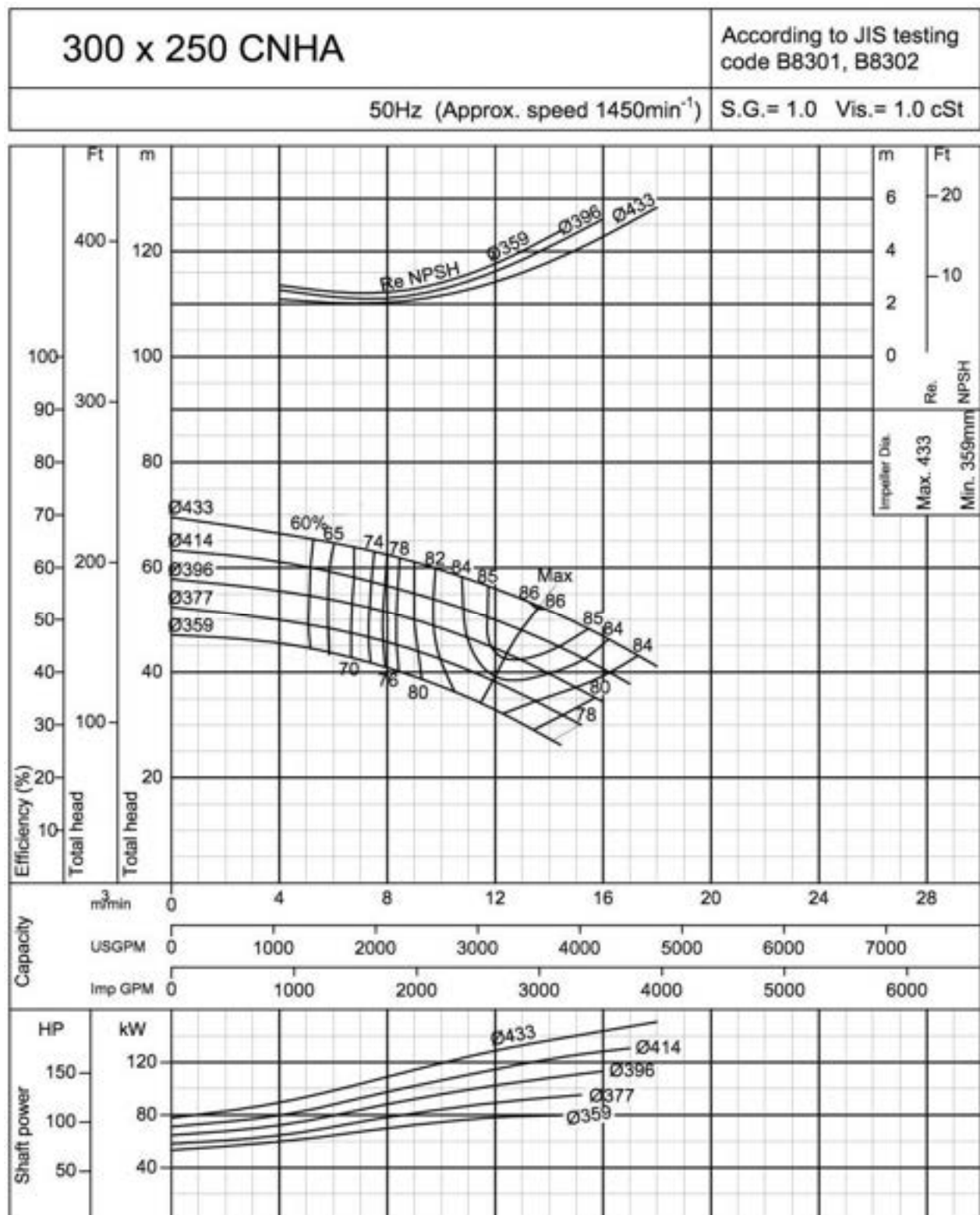
50Hz

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

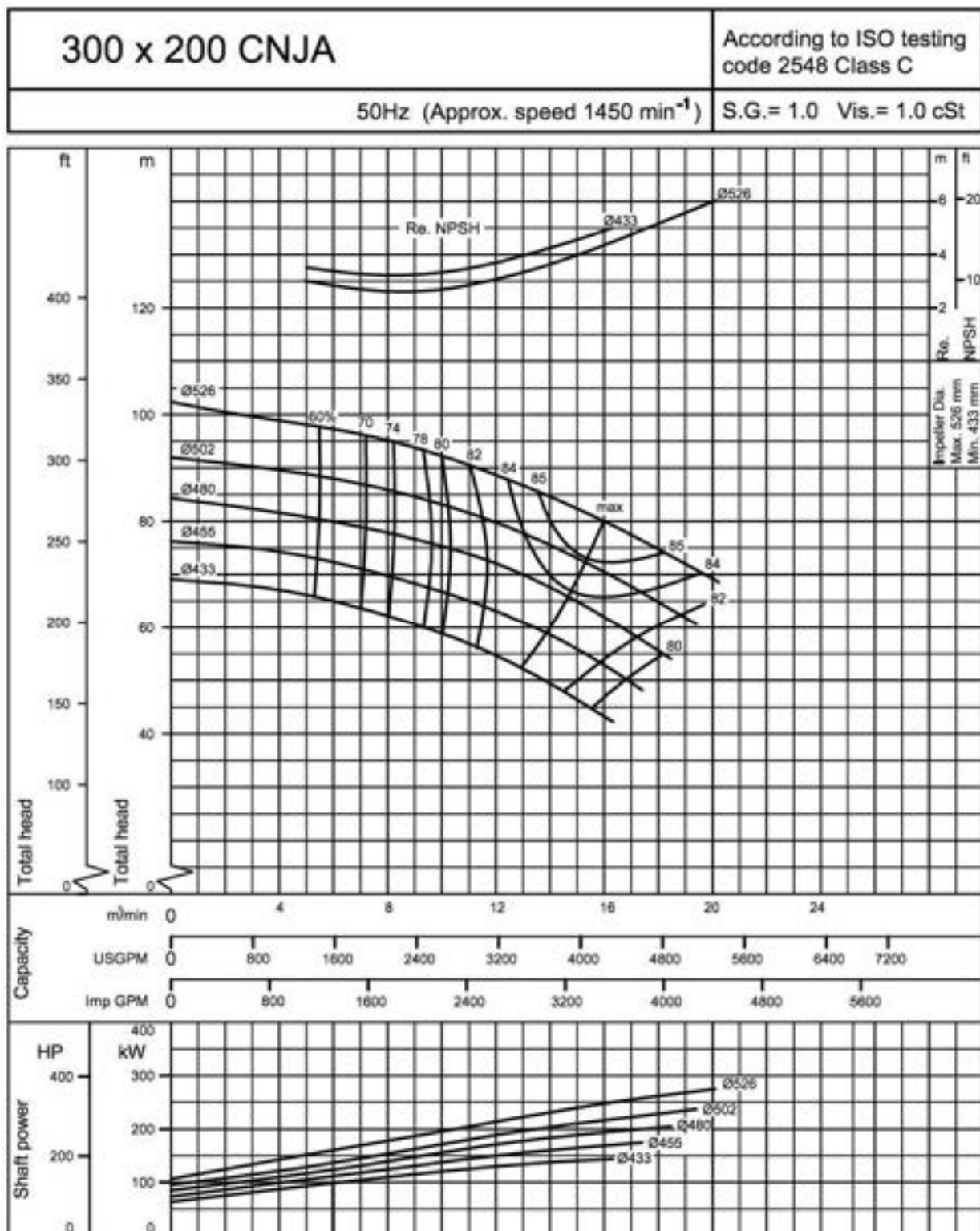




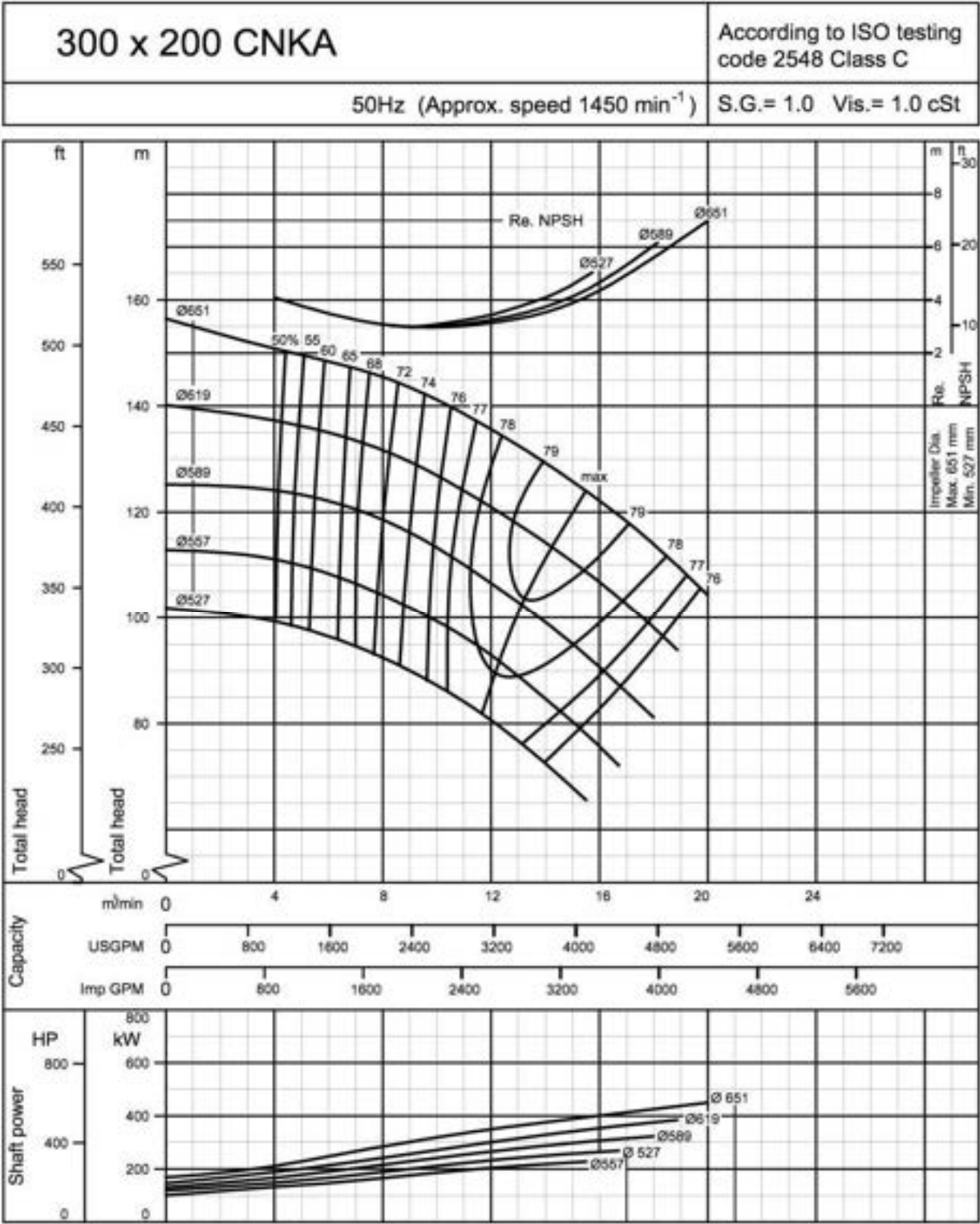
Curve No. CN5429R0



Curve No. CN5430R0



Curve No. CN5431R0



Curve No. CN5432R0

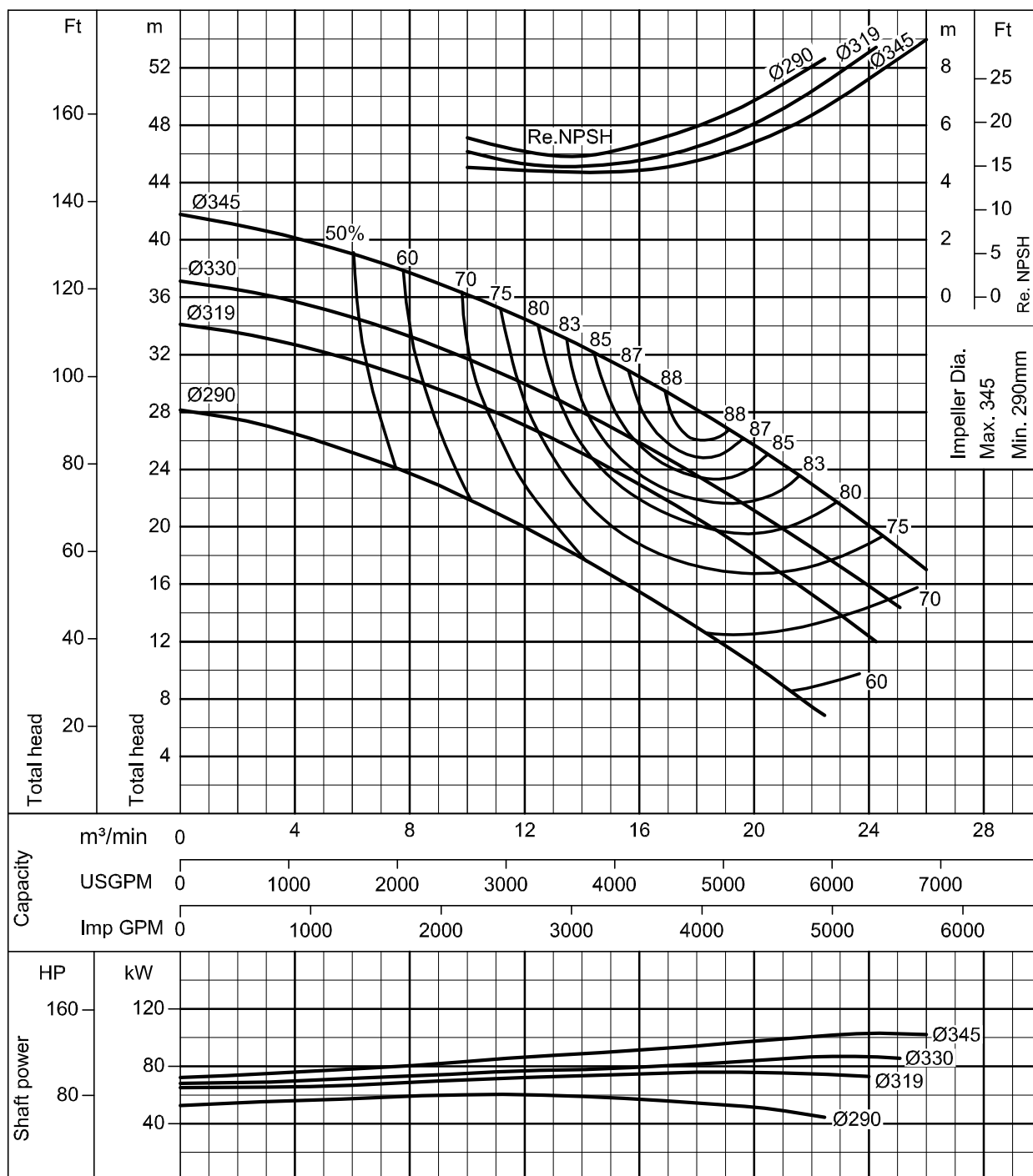
Ebara Horizontal Split Casing Pump

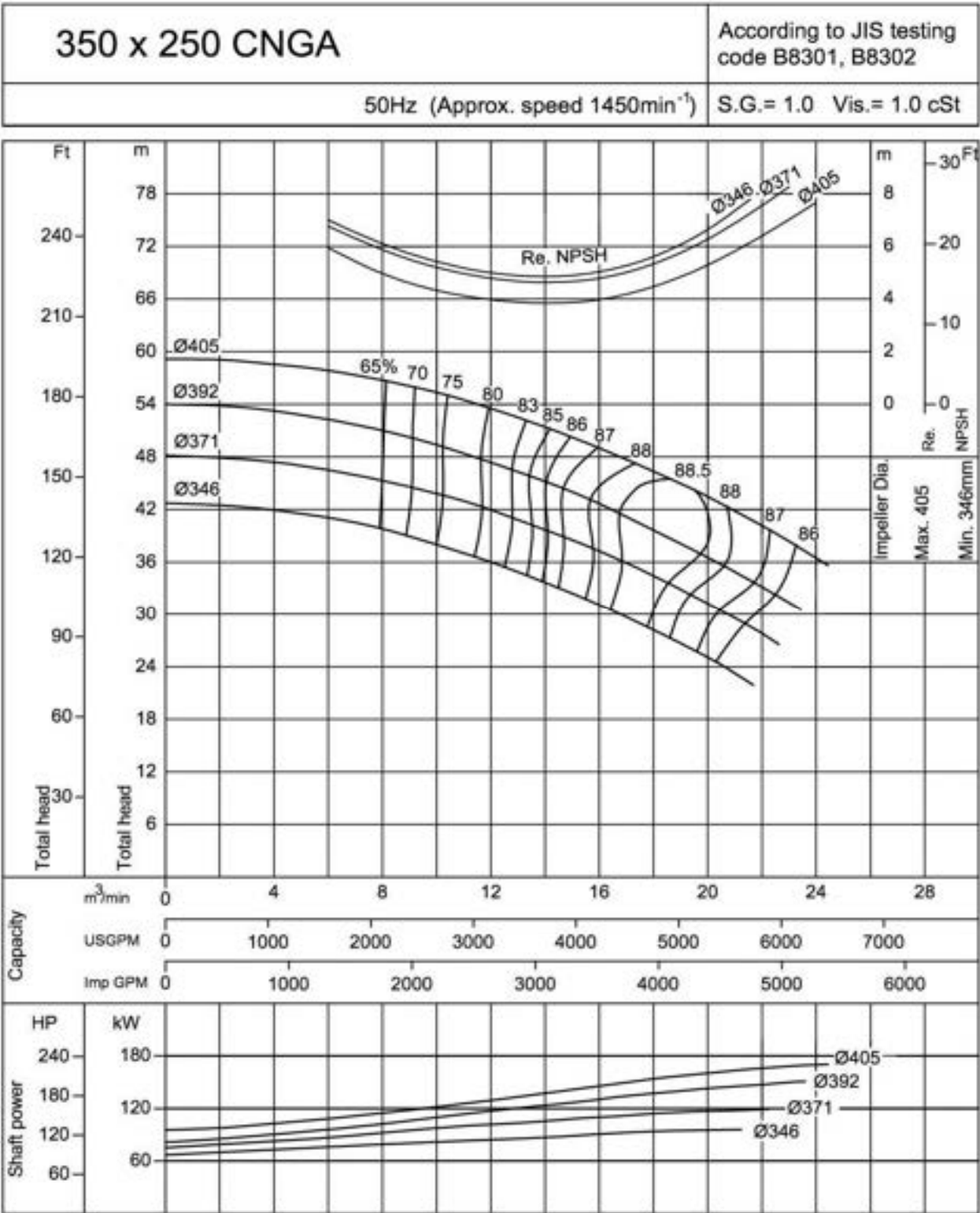
Model **CNA**

Performance Curve

50Hz

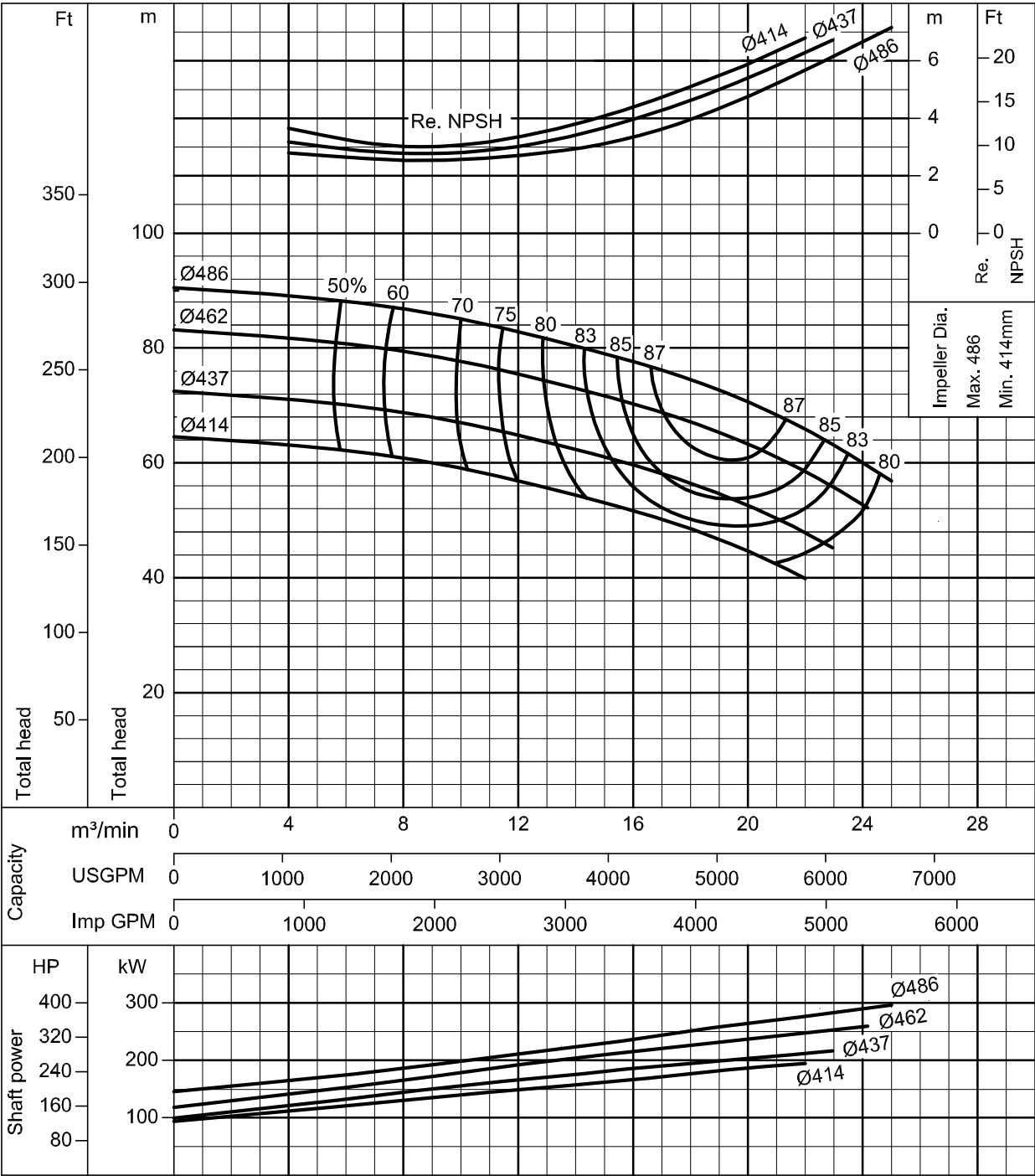
350 x 300 CNFA	According to JIS testing code B8301, B8302
50Hz (Approx. speed 1450min ⁻¹)	S.G.= 1.0 Vis.= 1.0 cSt



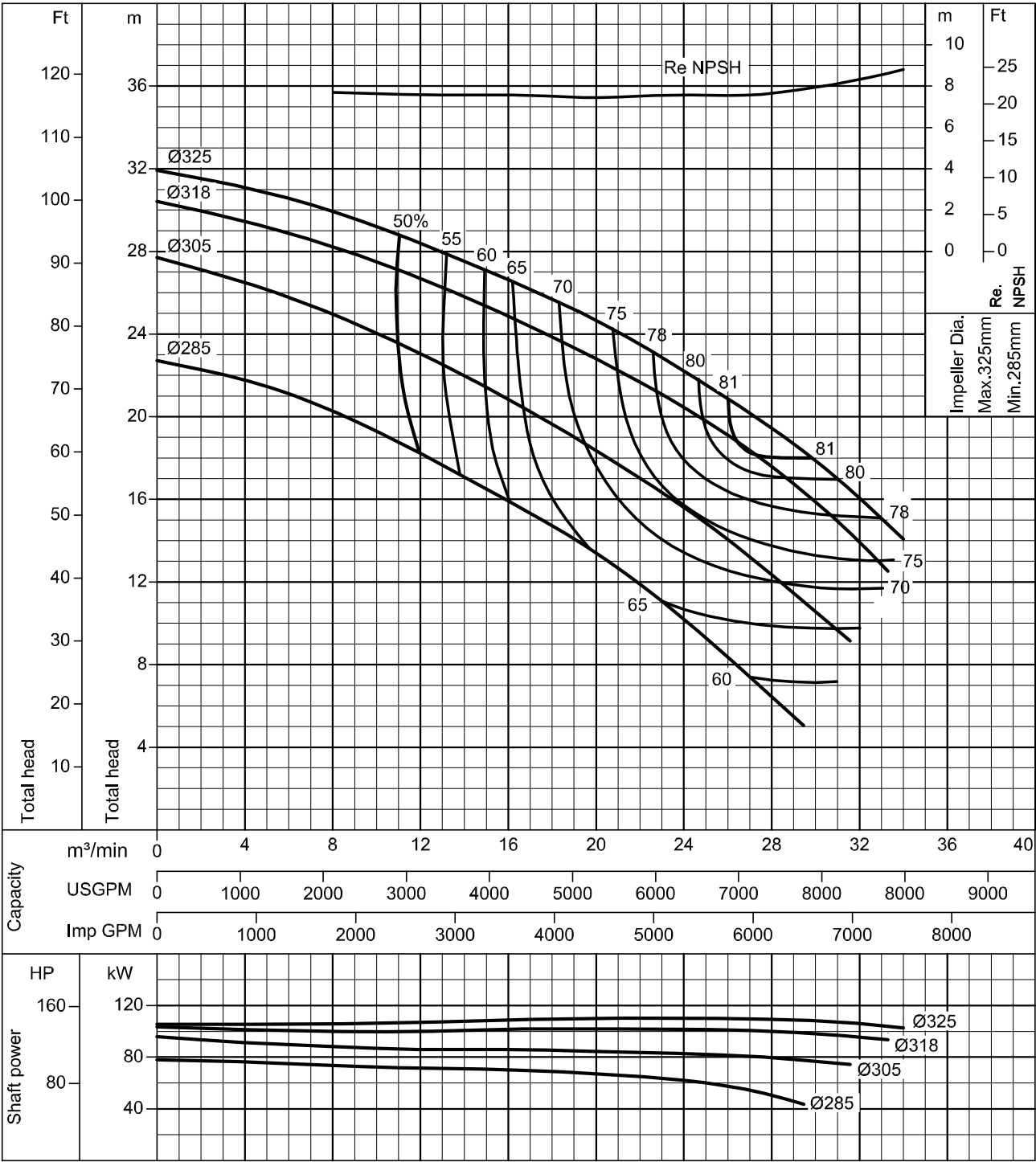


Curve No. CN5434R0

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



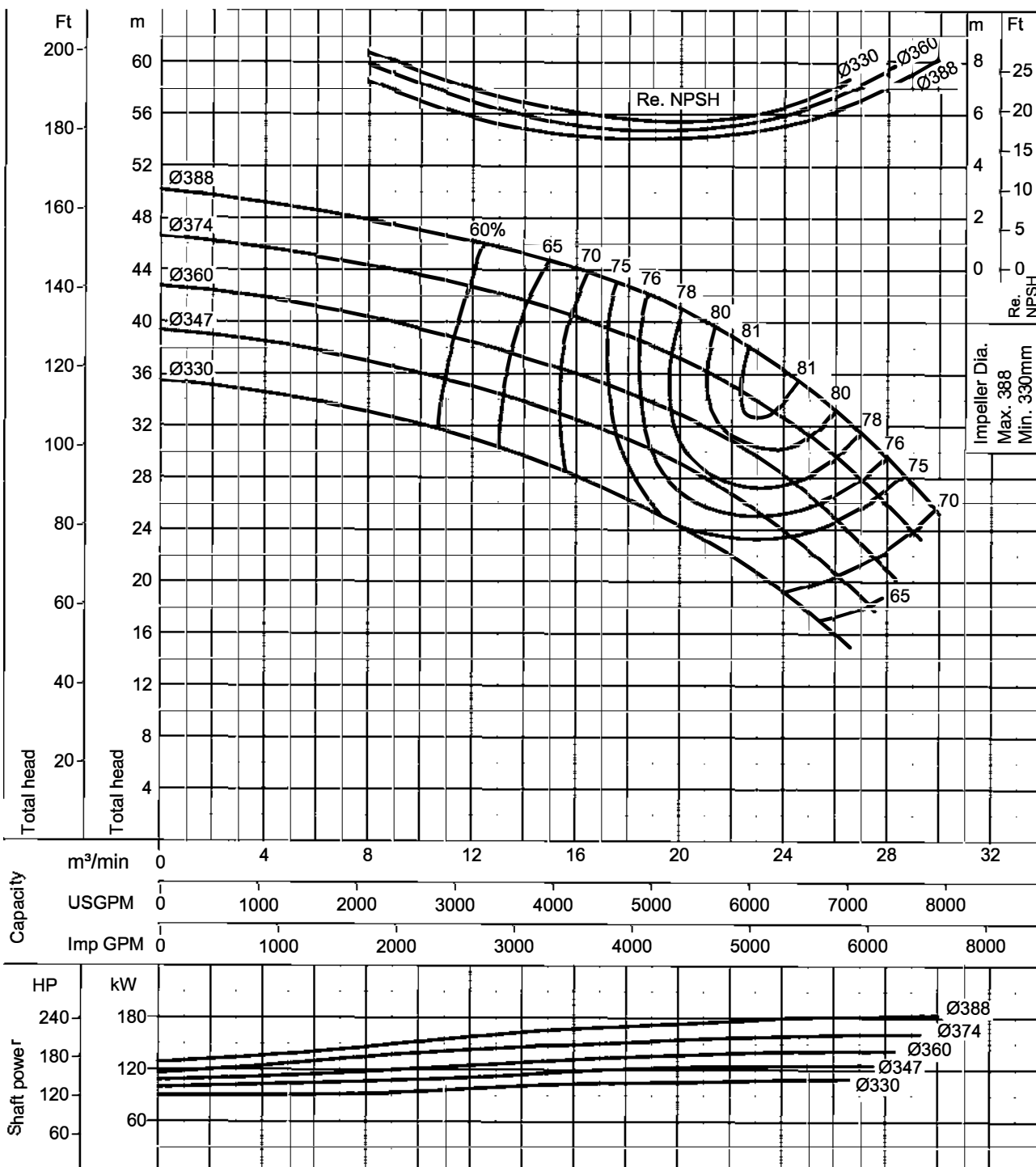
Ebara Horizontal Split Casing Pump

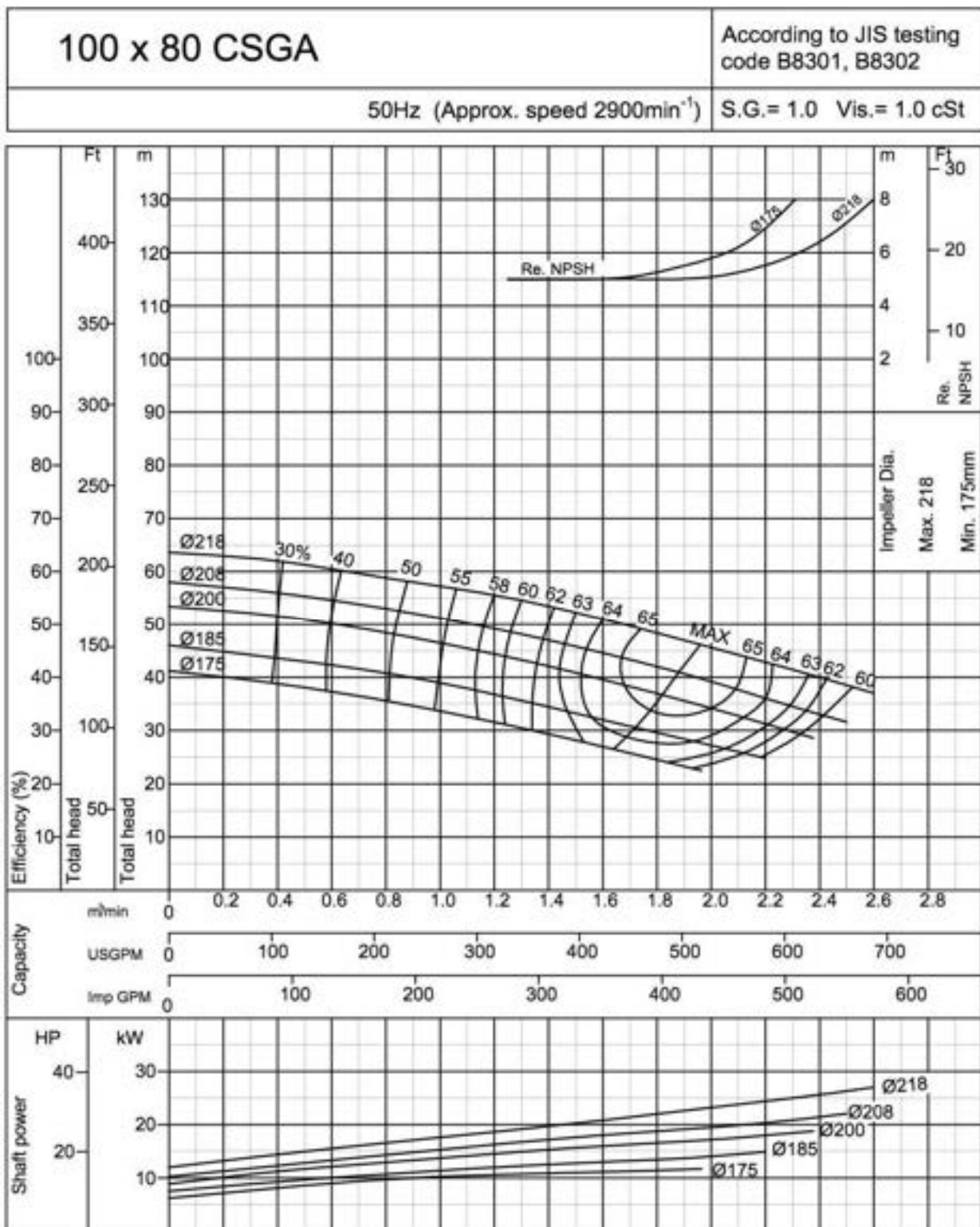
Model **CNA**

Performance Curve

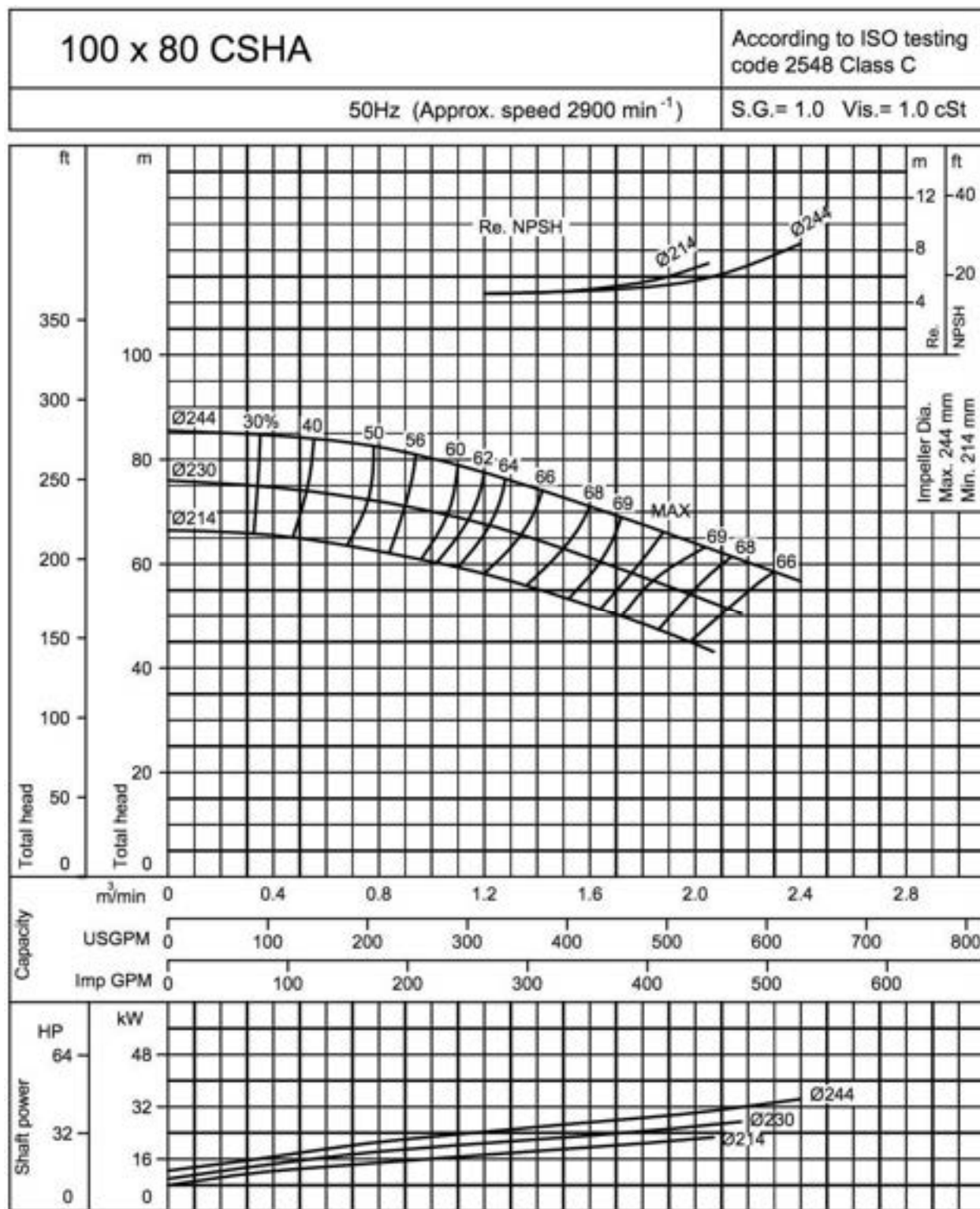
50Hz

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

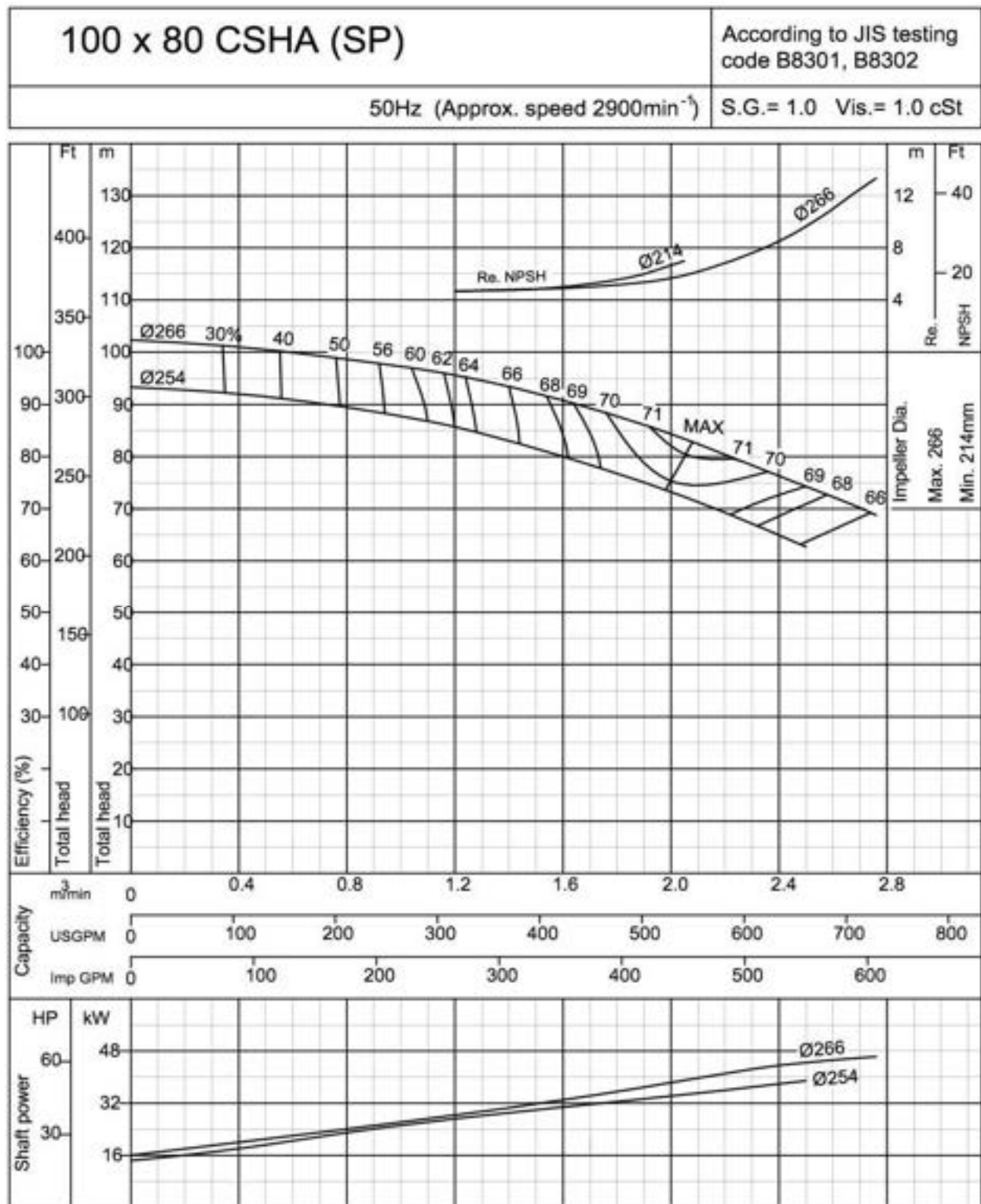




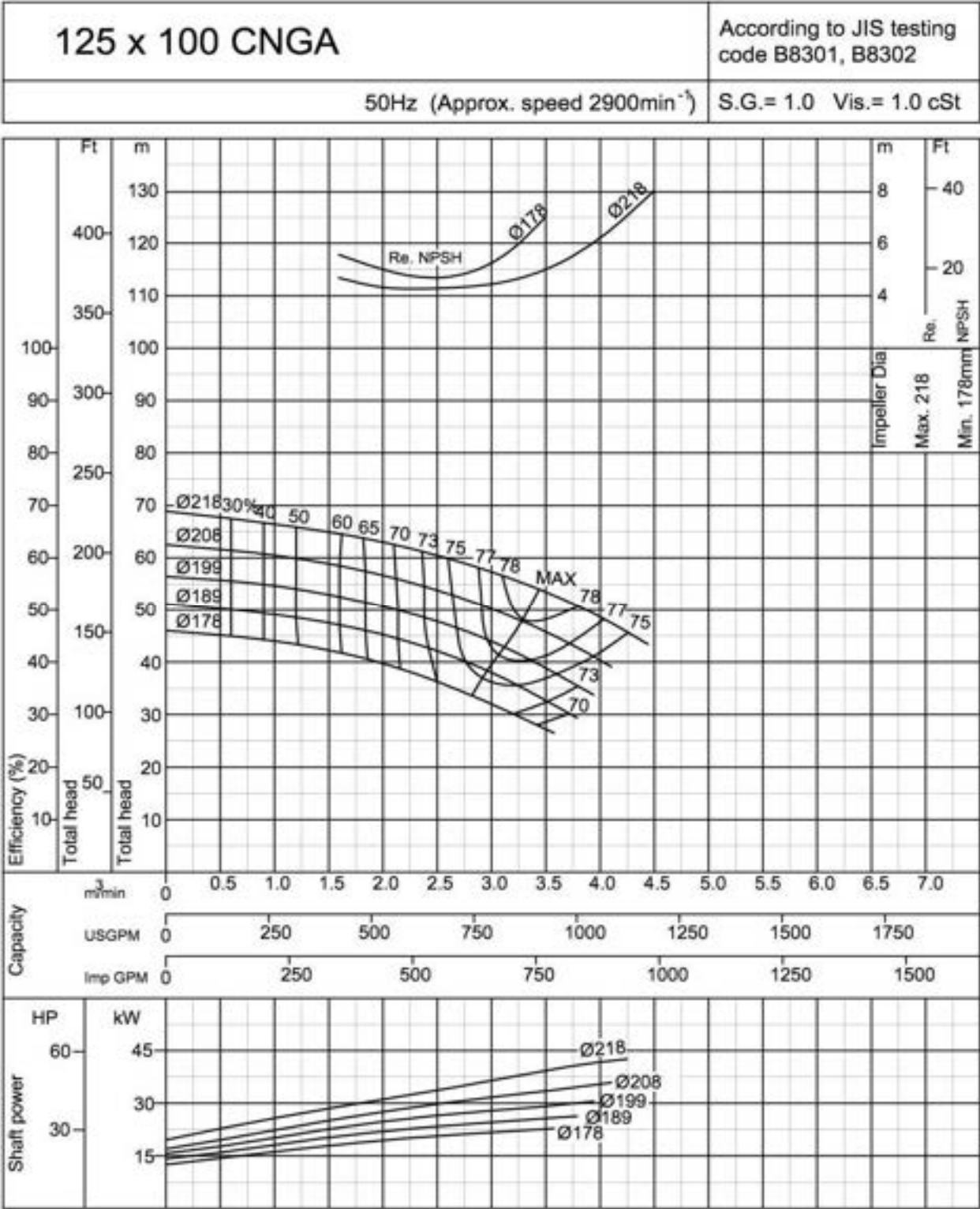
Curve No. CN5238R0



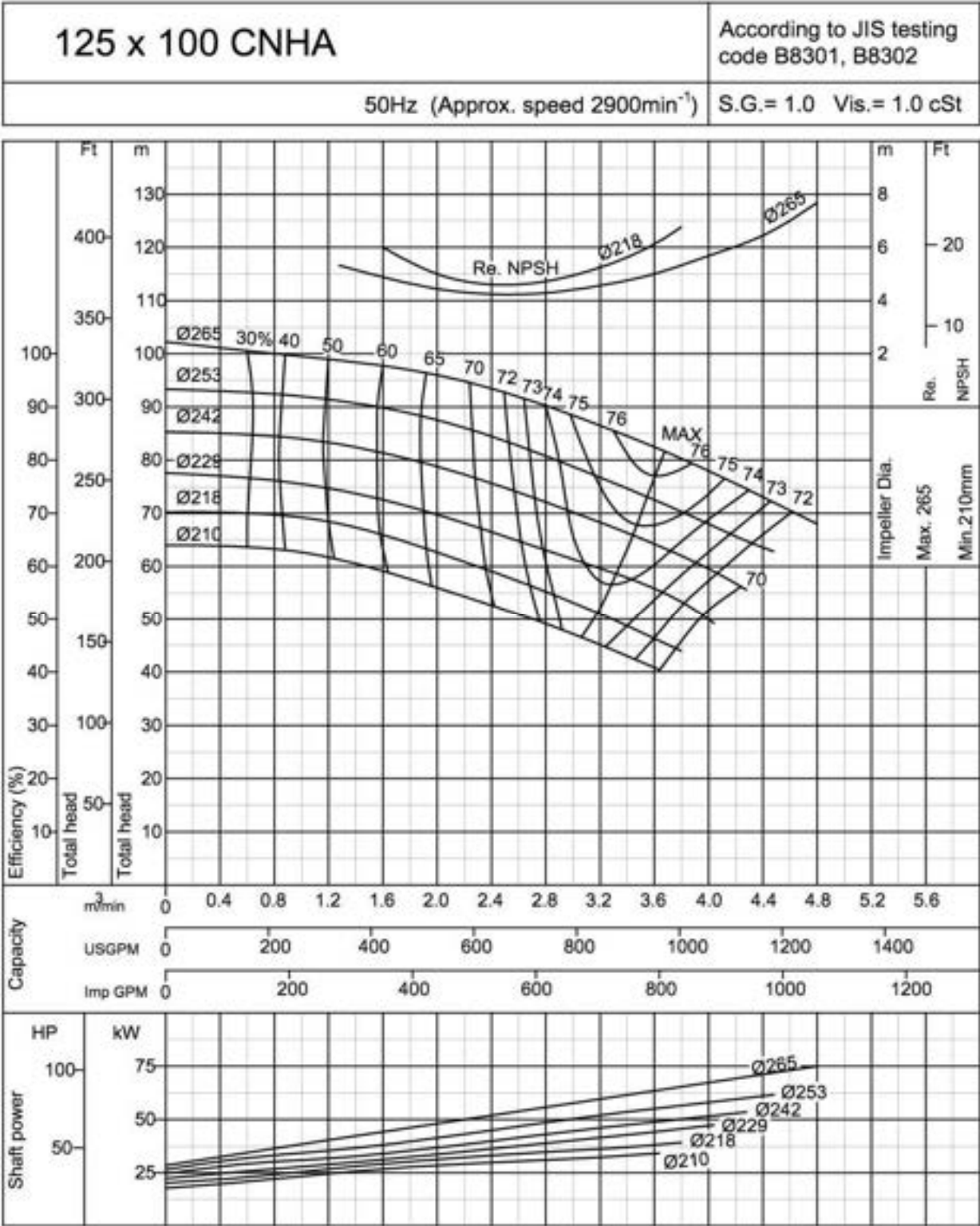
Curve No. CN5239R0



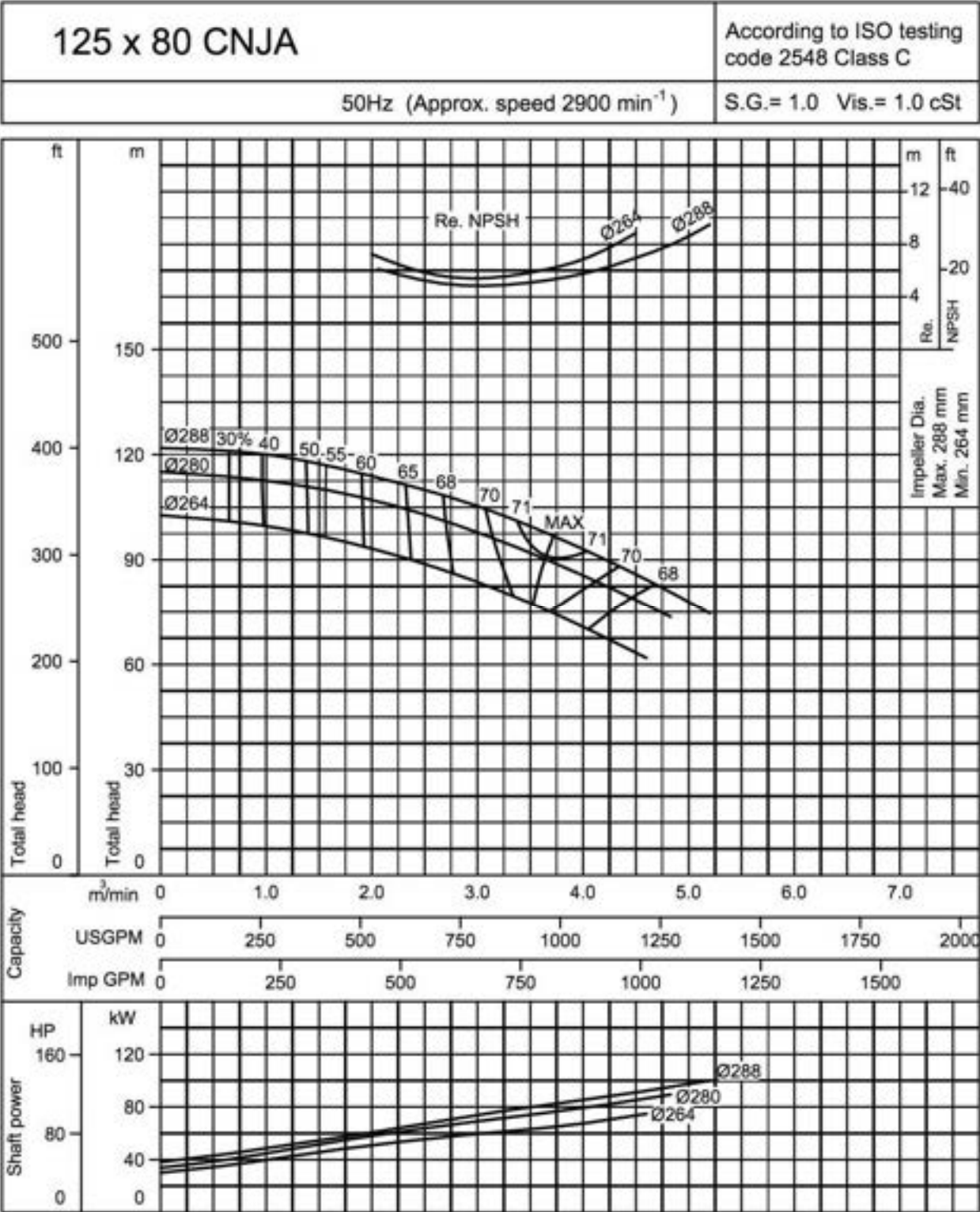
Curve No. CN5240R0



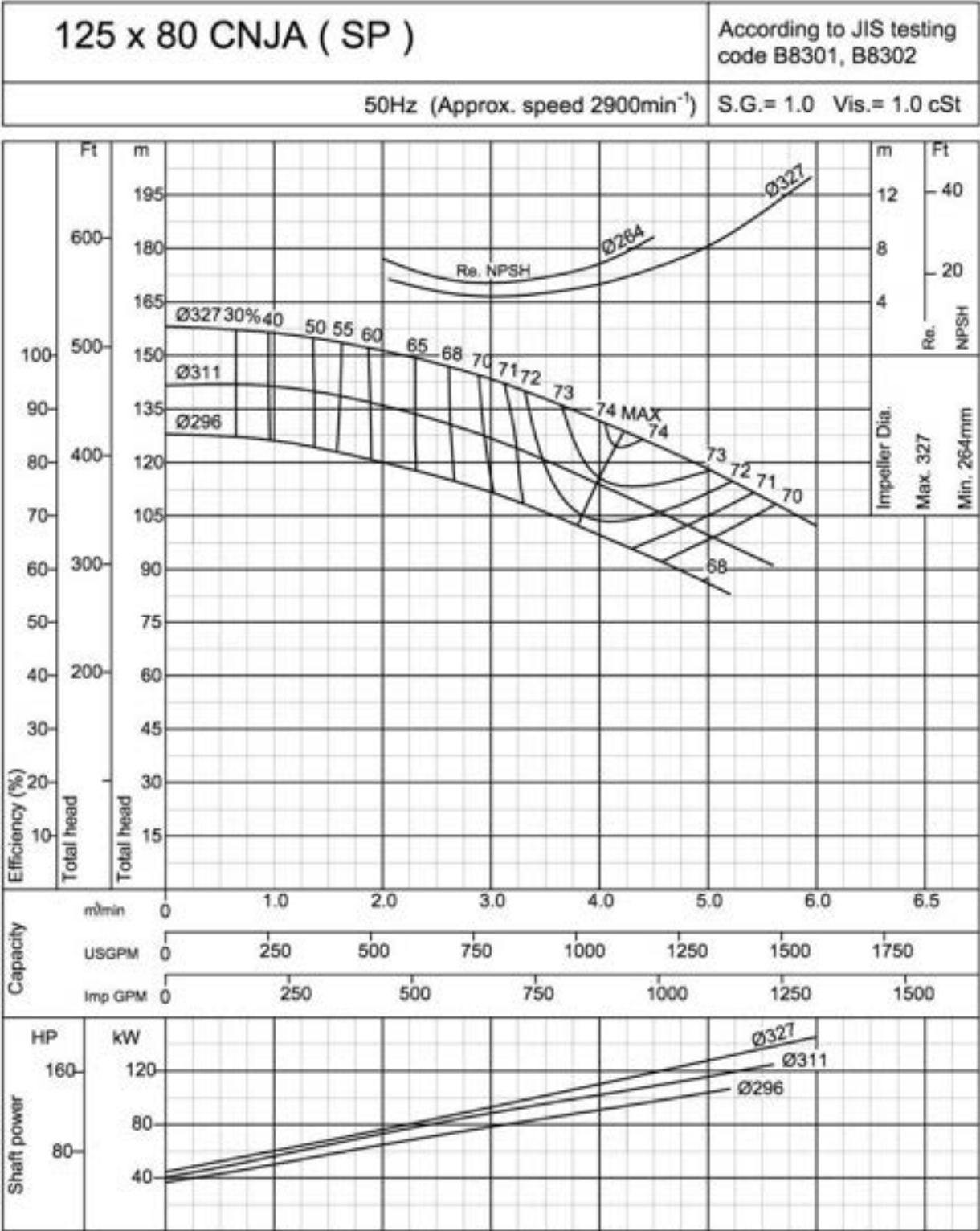
Curve No. CN5241R0



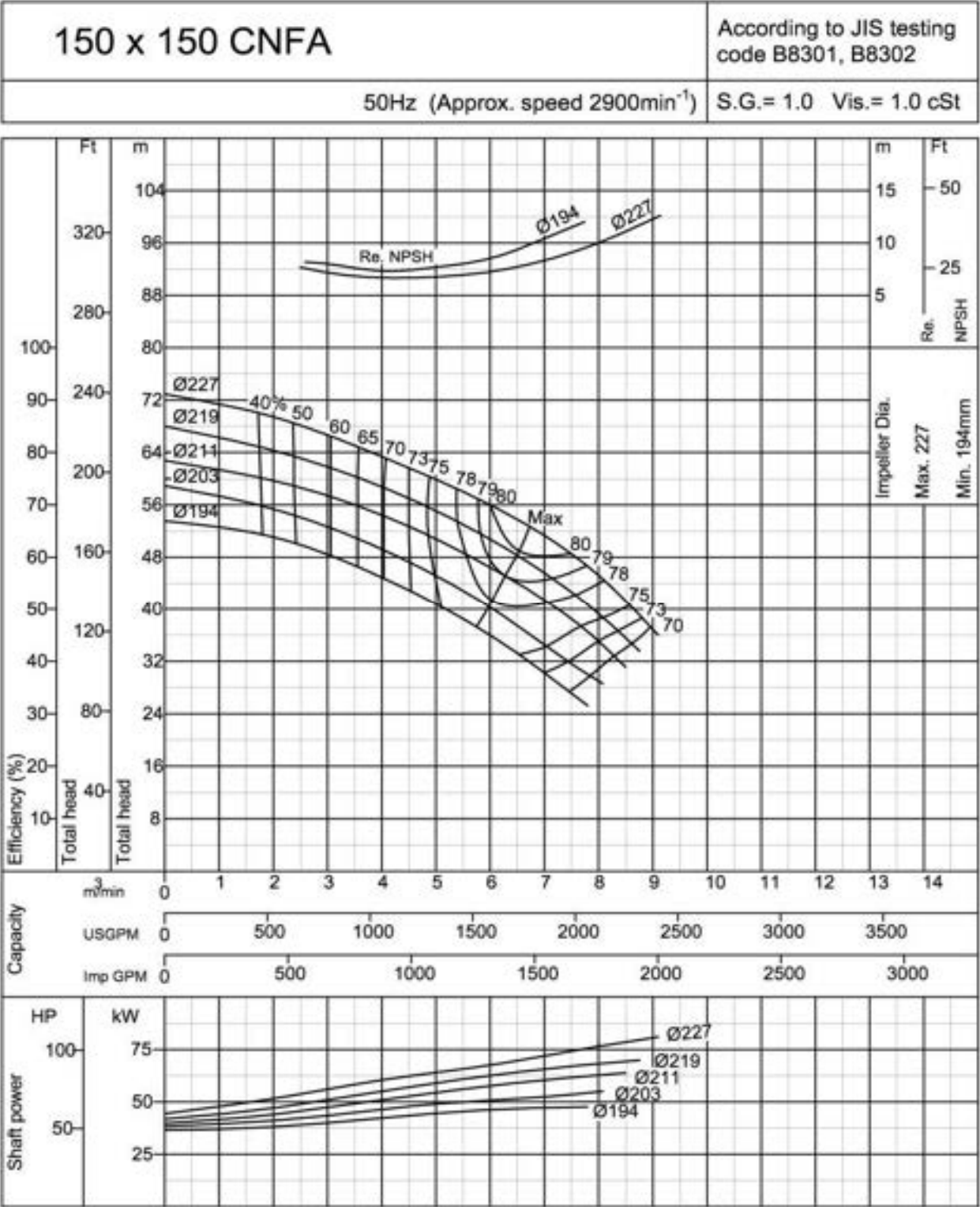
Curve No. CN5242R0



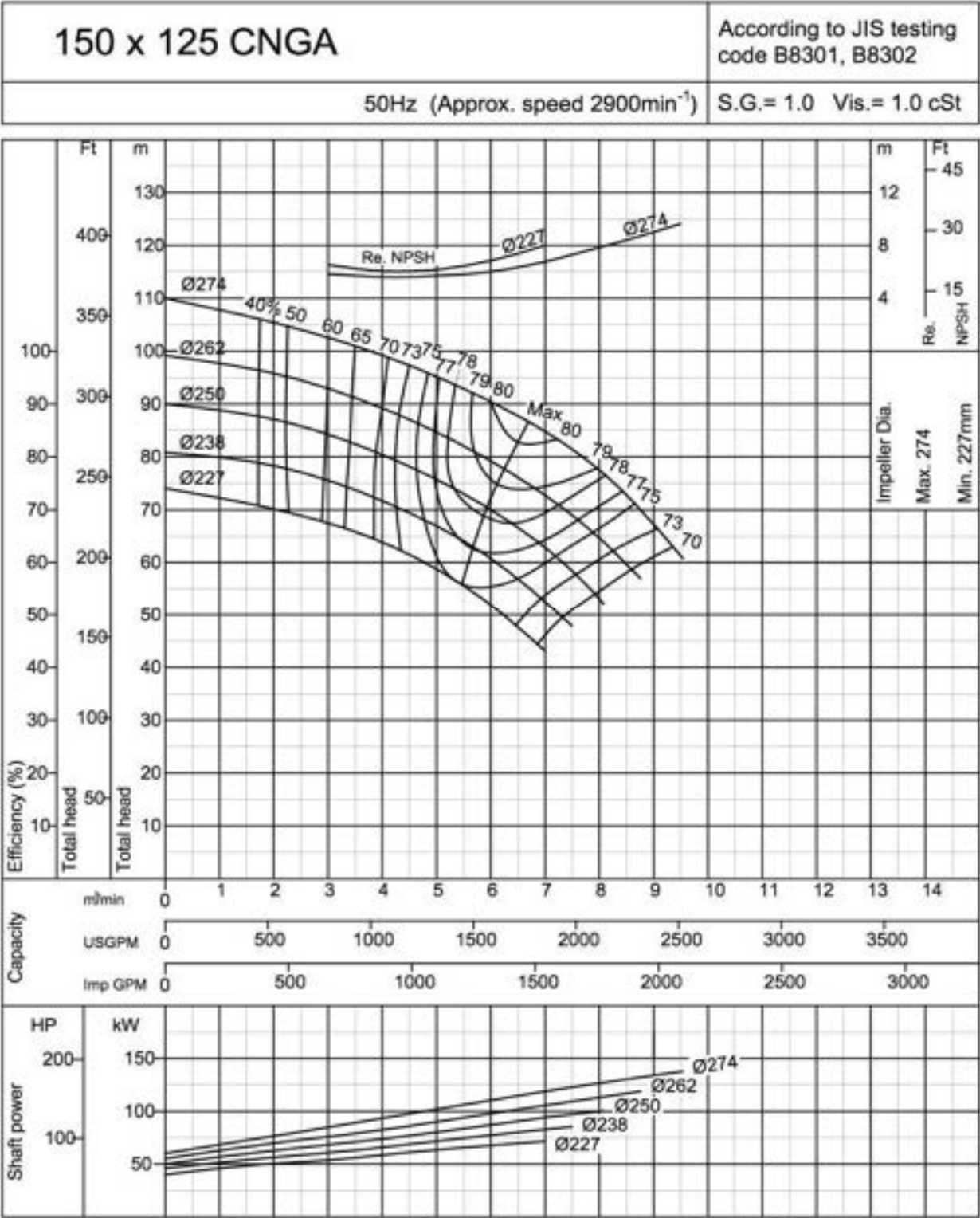
Curve No. CN5243R0



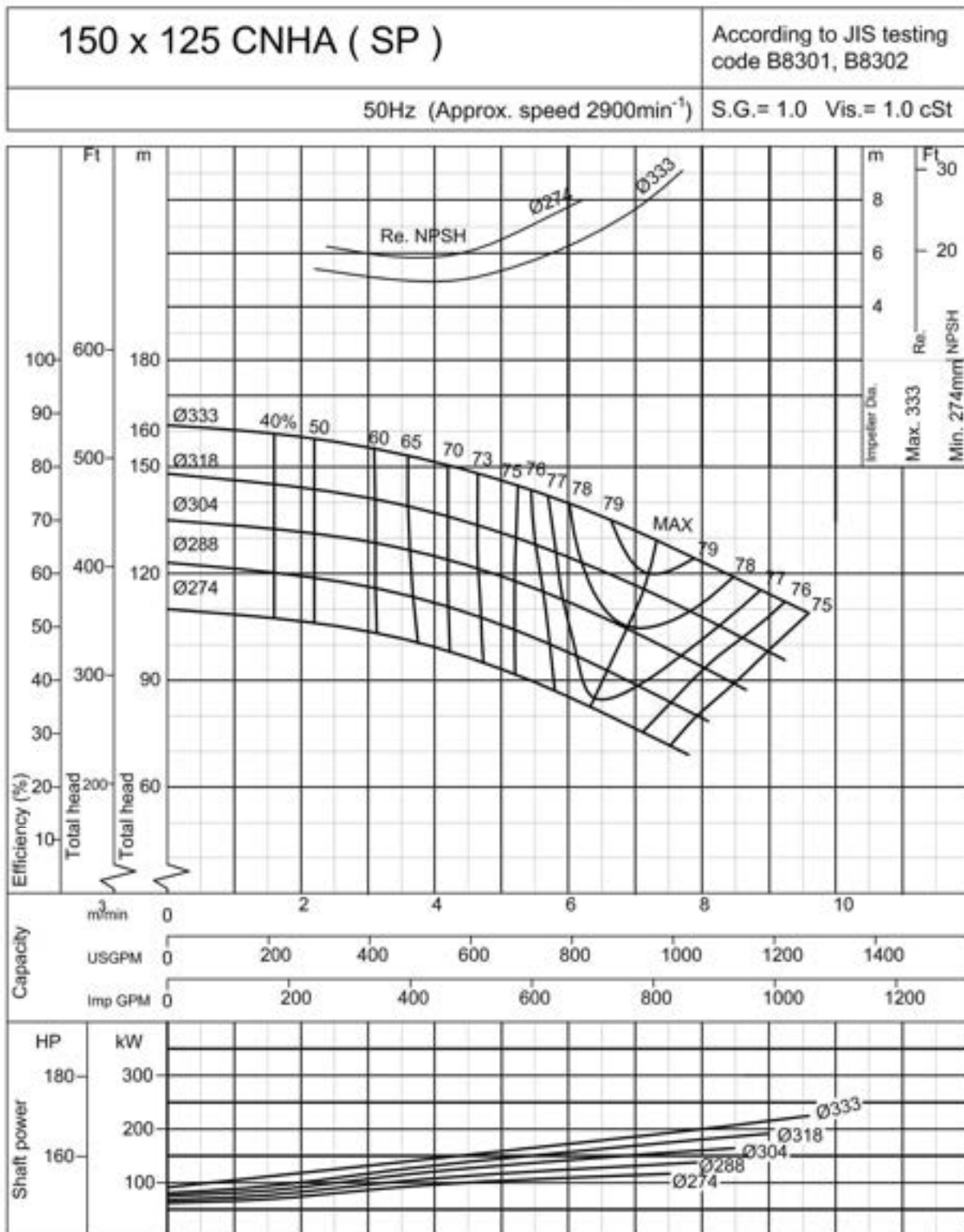
Curve No. CN5444R0



Curve No. CN5245R0



Curve No. CN5246R0



Curve No. CN5247R0

MEMO :



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All specifications could be subject to change