



ASN & ASNV SERIES

SINGLE-STAGE SPLIT CASING PUMPS



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■ ■ OUTLINE OF PRODUCT

Model ASN and ASNV pumps are single-stage double-suction split volute casing centrifugal pumps and used or liquid transportation for water works, air-conditioning circulation, building, irrigation, drainage pump station, electric power station, industrial water supply system, fire-fighting system, shipbuilding and so on.

■ ■ DATA OF RUNNING

Outlet Diameter of Pump (DN)	80-800 mm.
Capacity (Q)	≤ 11600 m ³ /h
Head (H)	≤ 200 m.
Working Temperature (T)	< 105 °C
Solid Grains	≤ 80 mg/l

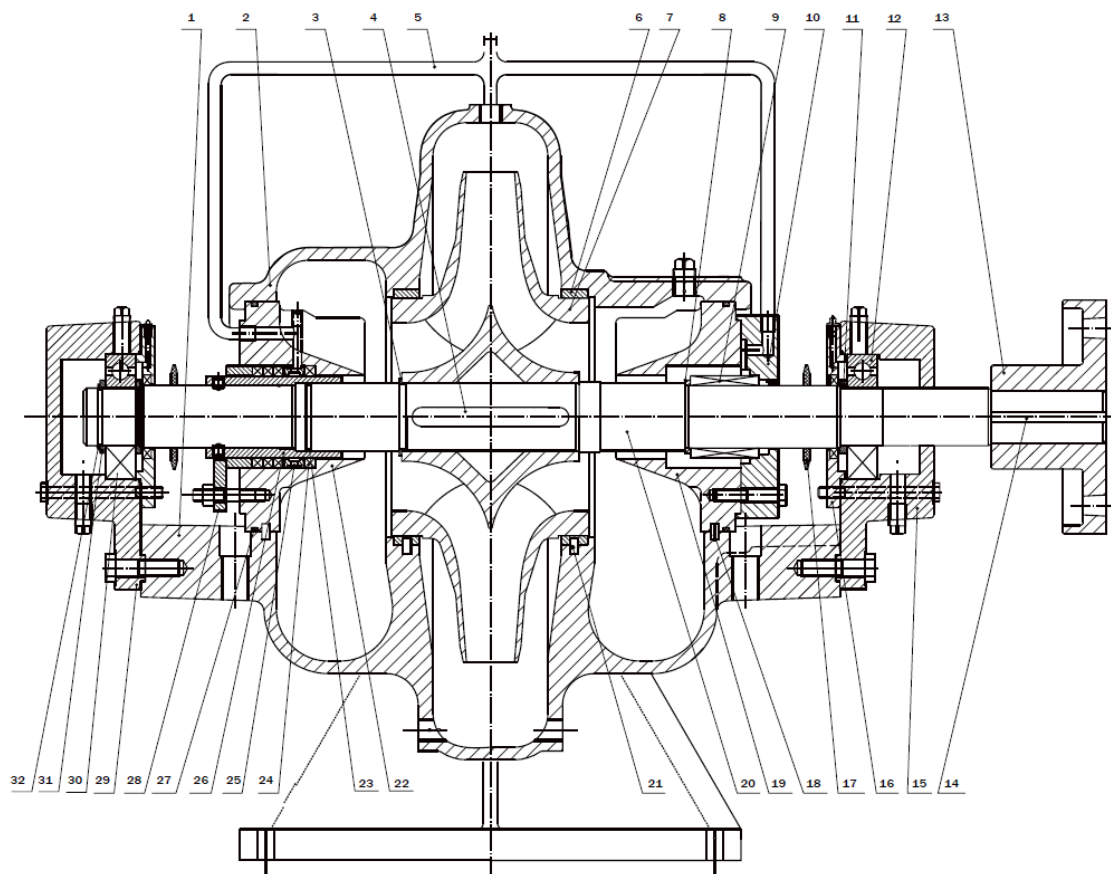
■ ■ CHARACTERISTIC OF STRUCTURE

- Compact structure nice appearance, good stability and easy installation.
- Stable running the optimally designed double-suction impeller makes the axial force reduced to the minimum and has a blade-style of very excellent hydraulic performance, both internal surface of the pump casing and the impeller's surface, being precisely cast, are extremely smooth and have a notable performance vapour corrosion resisting and a high efficiency.
- The pump case is double volute structured, which greatly reduces radial force, lightens bearing's load and prolongs bearing's service life.
- Bearing use SKF and NSK bearings to guarantee a stable running, low noise and long duration.
- Shaft seal use BURGMANN mechanical or stuffing seal to ensure a 8000h non-leak running.

■ ■ LIST OF MAIN PART'MATERIALS

Part	Material	GB
Pump Casting	• Casting Pig • Ductalloy • Cast Steel • Stainless Steel	• HT250 • QT400-18 • ZG230-450
Impeller	• Bronze • Casting Pig • Silicon Brass • Stainless Steel	• ZCuSn10Pb1 • HT250 • ZCuZn16Si4 • According to Confirmation to Contract
Shaft	• Stainless Steel • Carbon Steel	• 2Cr13 • 40Cr
Seal-Ring on Pump Casting	• Bronze • Casting Pig • Silicon Brass • Stainless Steel	• ZCuSn10Pb1 • HT250 • ZCuZn16Si4 • According to Confirmation to Contract

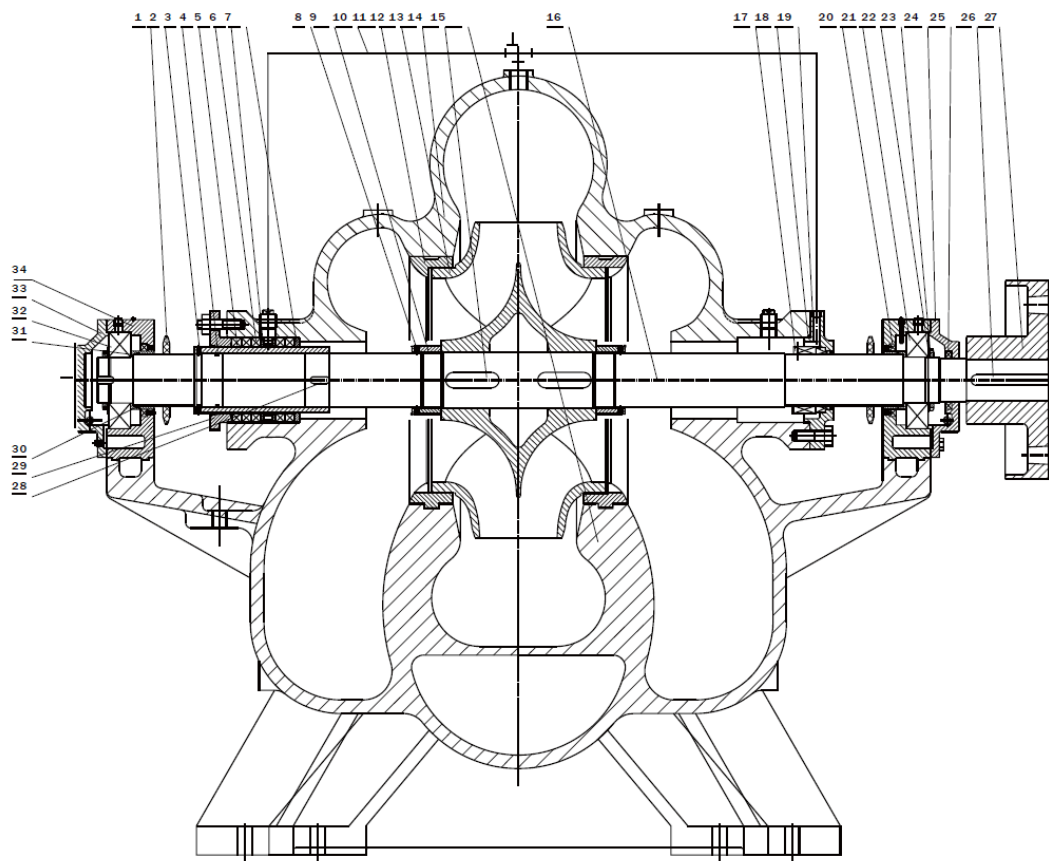
■ ■ STRUCTURAL DRAWING OF MODEL ASN HORIZONTAL PUMP



Structural Drawing A

1	Pump Casting	13	Pump Linkage	25	Stuffing Ring
2	Pump Cover	14	Key	26	Stuff Muff
3	Use Elastic Baffle	15	Bearing Body A	27	O-Seal Ring
4	Key	16	Seal Gland	28	Packing Gland Part
5	Water-Rinsing Pipe Part	17	Water Baffle	29	Bearing Body B
6	Seal Ring	18	Column Pin	30	Bearing
7	Impeller	19	Seal Body (Mechanical Seal)	31	Bearing Baffle
8	Seal Ring	20	Shaft	32	Use Elastic Baffle
9	Mechanical Seal	21	Column Pin		
10	Mechanical Seal Gland	22	Seal Body (for Stuffing Seal)		
11	Use Elastic Baffle	23	O-Seal Ring		
12	Bearing	24	Stuffing		

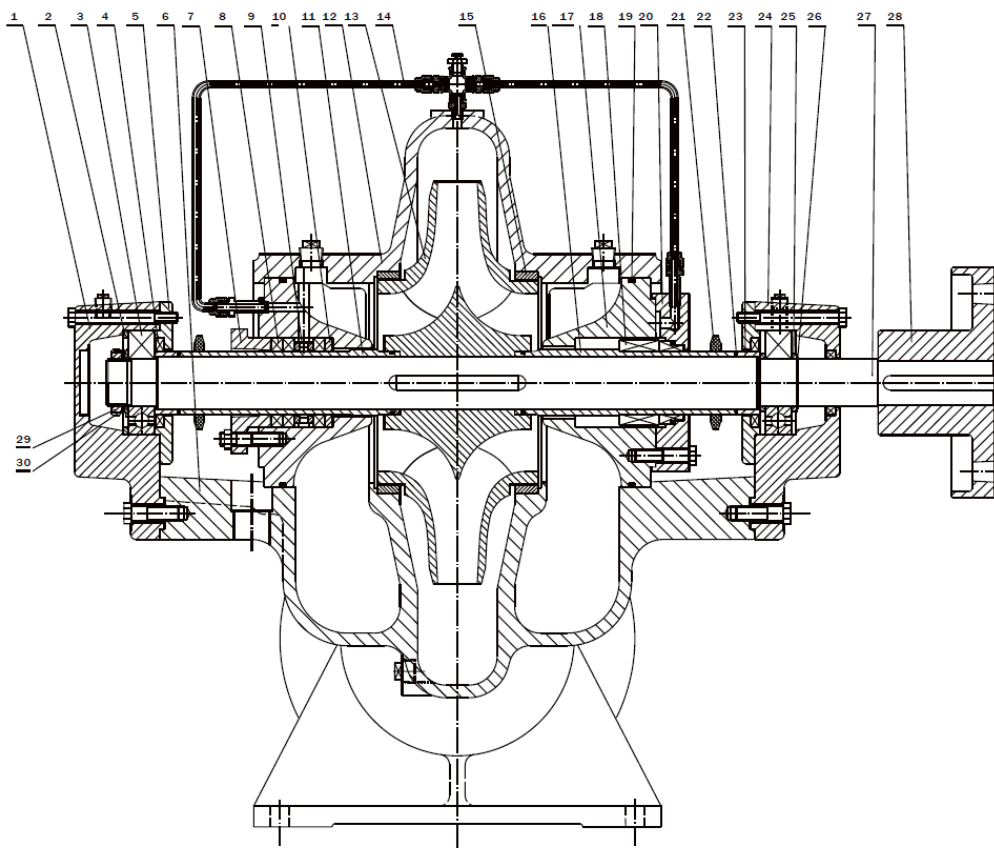
■ ■ STRUCTURAL DRAWING OF MODEL ASN HORIZONTAL PUMP



Structural Drawing B

1	Water Baffle	13	Pump Cover	25	Oil Seal O Rame
2	Inner-Hexangular Concave end Stress Screw	14	Key	26	Key
3	O-Seal Ring	15	Pump Casting	27	Pump Bearing Gland
4	Stuff Muff	16	Shaft (Mechanical Seal)	28	Key
5	Stuffing	17	Mechanical Seal	29	Stuffing Gland
6	Stuffing Ring	18	O-Seal Ring	30	O-Seal Ring
7	Stuffing Baffle	19	Mechanical Seal Gland	31	Bearing Baffle
8	Inner-Hexangular Concave end Stress Screw	20	Oil Seal of Frame	32	Bearing
9	Impeller Nut	21	Bearing	33	Seal Gland B
10	Water-Sealing Pipe Part	22	Washer	34	Bearing Body
11	Seal-Ring	23	Round Nut		
12	Impeller	24	Bearing Gland A		

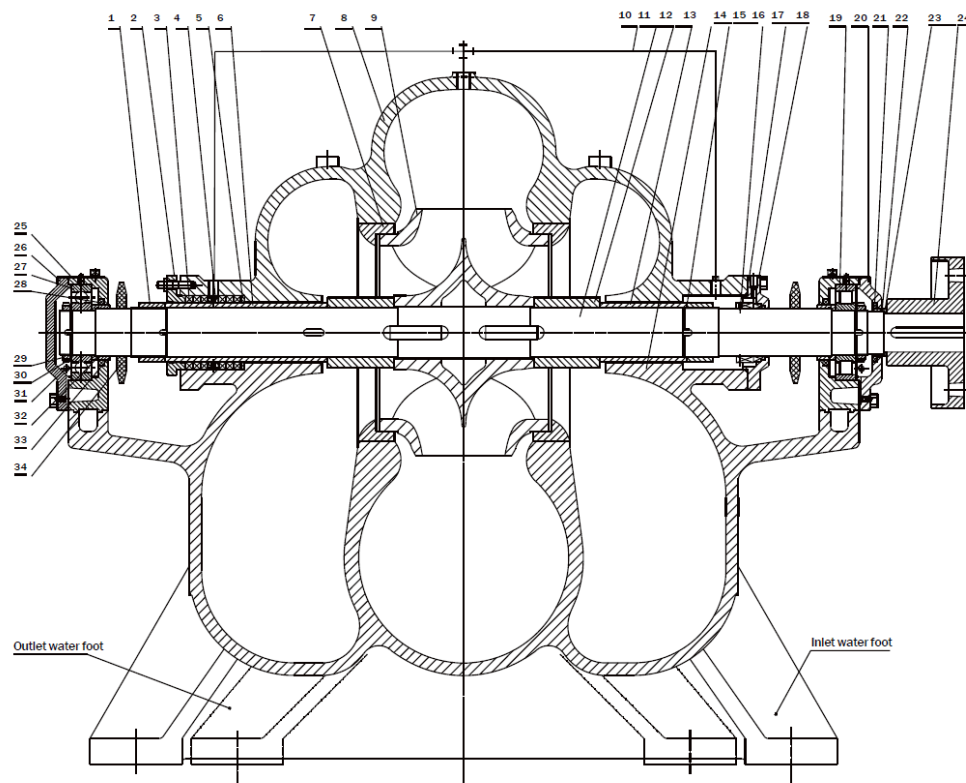
■ ■ STRUCTURAL DRAWING OF MODEL ASN HORIZONTAL PUMP



Structural Drawing C

1	Bearing Body B	11	Stuff Muff	21	Water Baffle
2	Bearing Washer	12	Pump Cover	22	O-Ring
3	Bearing	13	Impeller	23	Nuff
4	Oil Seal O Rame	14	Water-Rinsing Pipe Part	24	Bearing Body A
5	Bearing Gland	15	Seal Ring	25	Bearing Baffle
6	Pump Casting	16	Mechanical Seal Muff	26	Elastic Baffle
7	Stuffing Gland	17	Seal Body	27	Shaft
8	Stuffing	18	Mechanical Seal	28	Pump Bearing Gland
9	Stuffing Ring	19	O-Ring	29	Round Nut
10	Stuffing Baffle	20	Seal Gland	30	Thrust Washer

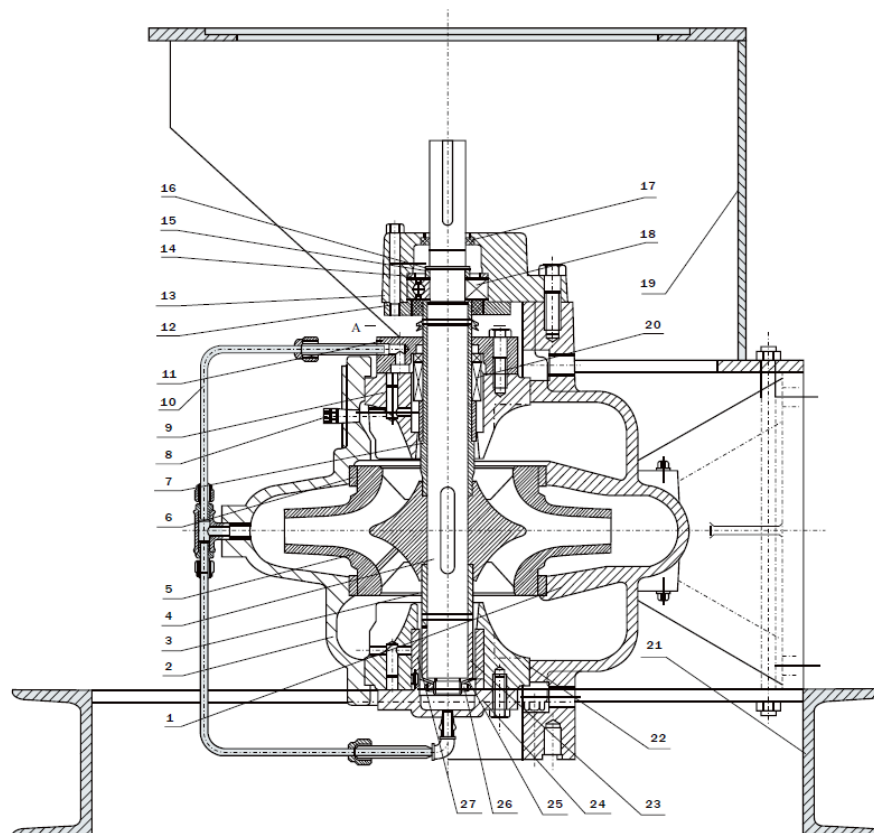
■ ■ STRUCTURAL DRAWING OF MODEL ASN HORIZONTAL PUMP



Structural Drawing D

1	Muff Nut	13	Mechanical Seal Muff	25	Bearing Body
2	Stuffing Gland	14	Pump Casting	26	Bearing Gland B
3	Stuffing	15	Thrust Washer	27	Radial Bearing
4	Stuffing Ring	16	Mechanical Seal	28	Oil Seal O Rame
5	Stuffing Baffle	17	O-Ring	29	Round Nut
6	Stuff Muff	18	Seal Gland	30	Thrust Washer
7	Seal Ring	19	Roll Bearing	31	Oil Level Meter
8	Pump Cover	20	Bearing Gland A	32	O-Ring
9	Impeller	21	Oil Seal of Frame	33	Bearing Baffle A
10	Water-Rinsing Pipe Part	22	O-Ring	34	Water Baffle
11	Shaft	23	Seal Baffle B		
12	Muff	24	Pump Bearing Gland		

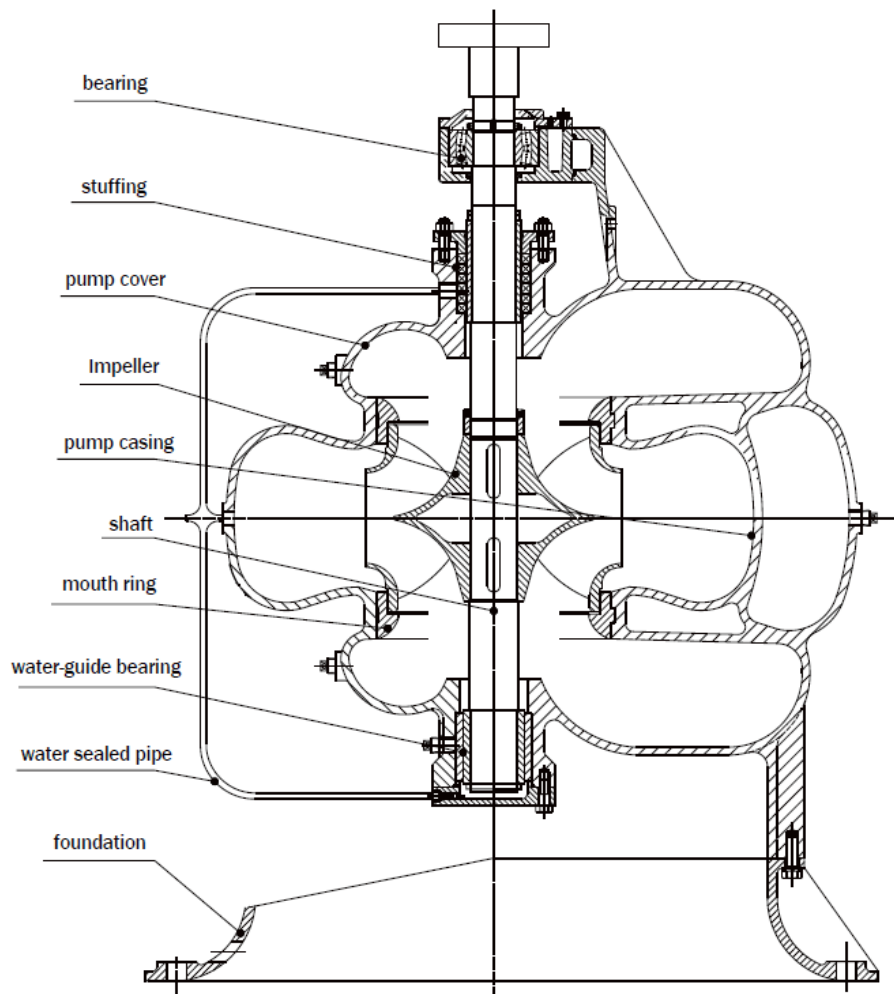
■ ■ STRUCTURAL DRAWING OF MODEL ASN HORIZONTAL PUMP



Structural Drawing E

1	Pump Casting	11	Seal Gland or Stuffing Gland	21	Foundation
2	Pump Cover	12	Bearing Gland	22	O-Seal Ring
3	Lower Nuff A	13	Bearing Body	23	Lower Muff B
4	Shaft	14	Bearing Washer	24	Water-Guide Bearing Gland
5	Impeller	15	Bearing Baffle	25	Butterfly-Type Spring
6	Seal Ring	16	Elastic Baffle	26	Locking Nut
7	Nuff	17	Oil Seal of Frame	27	Water-Guide Bearing
8	Deflating Chamber	18	Bearing		
9	Sealing Body	19	Motor Stand		
10	Water-Rinsing Pipe Part	20	Mechanical Seal or Stuffing Seal		

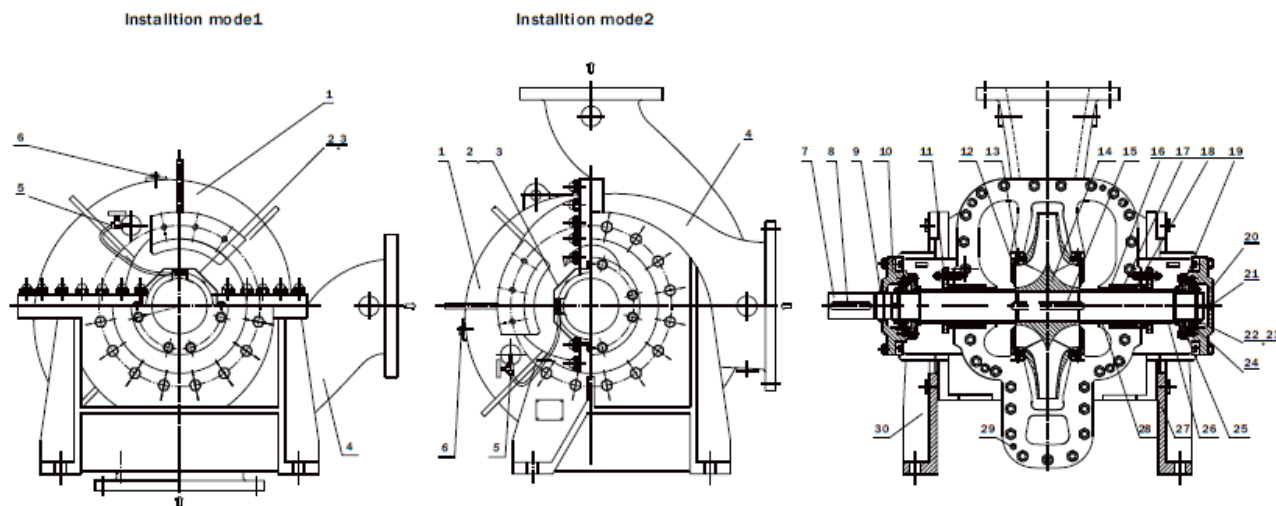
■ ■ STRUCTURAL DRAWING OF MODEL ASNV VERTICAL PUMP



Structural Drawing F

Note: This structure is available with the outlet of 400 aperture upward, please contact with the technical center in case of a special requirement!

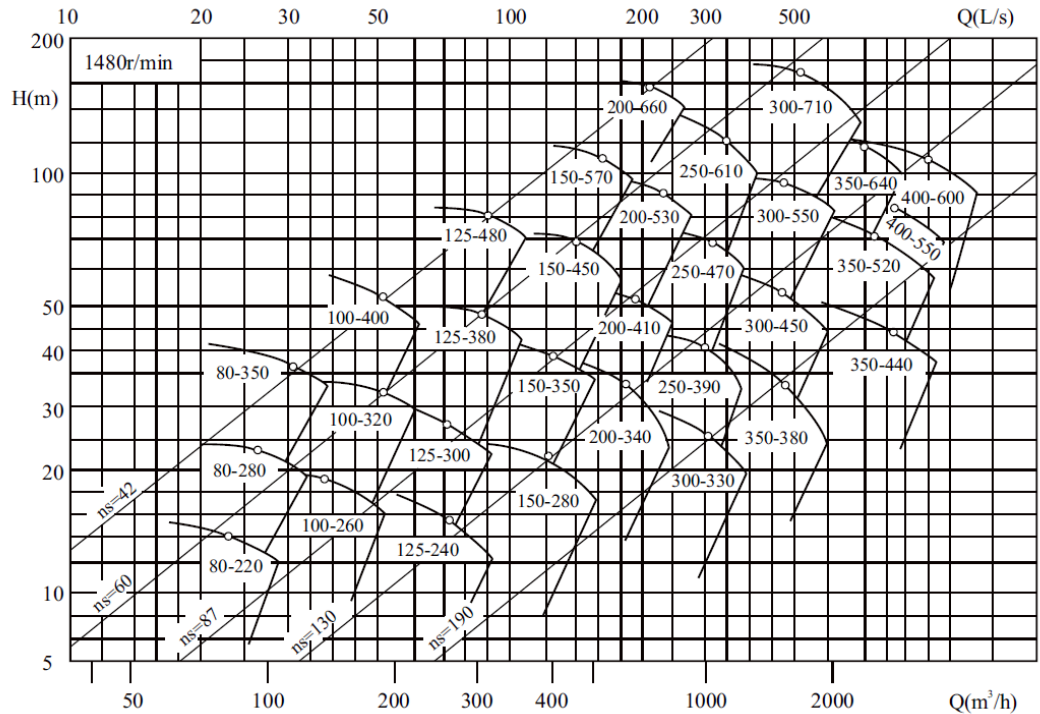
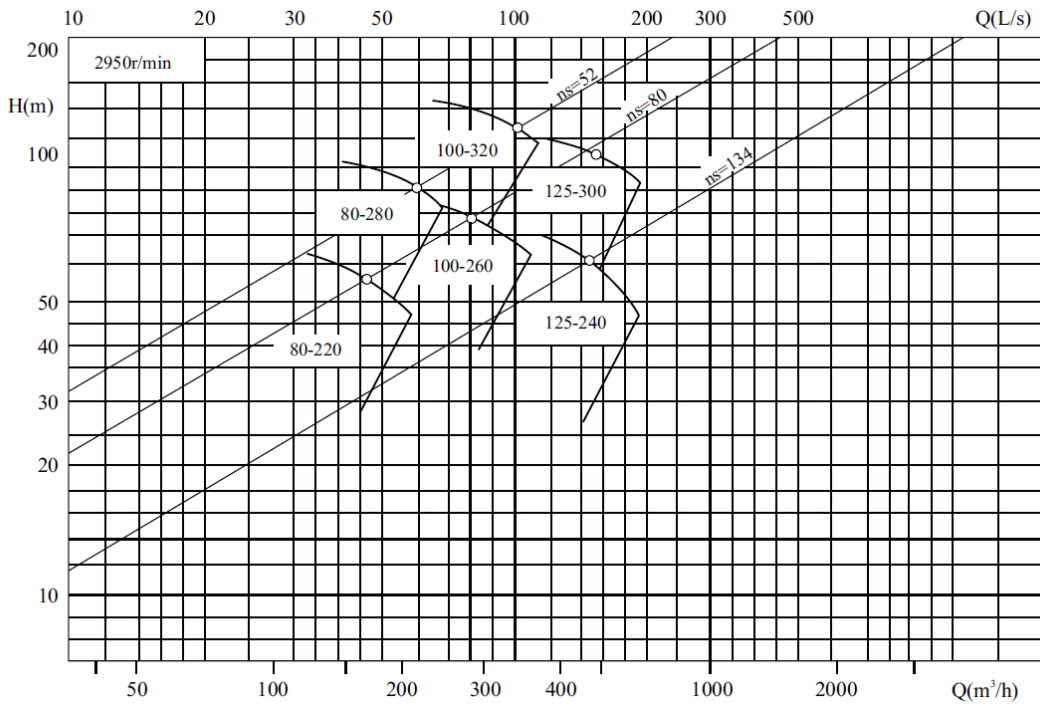
■ ■ STRUCTURAL DRAWING OF MODEL ASN-L TYPE HORIZONTAL PUMP



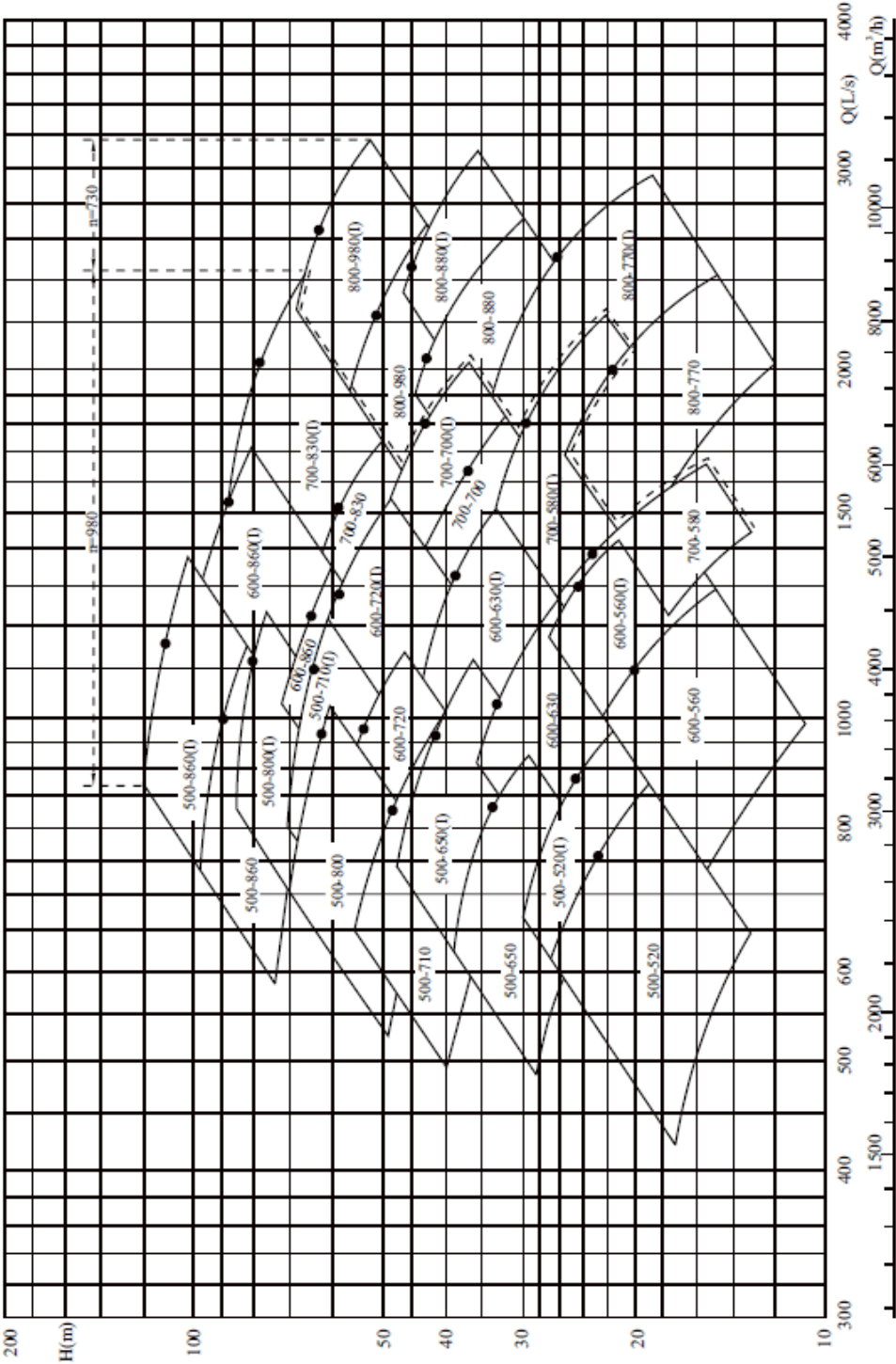
Note: This structure is available with the outlet of 400 aperture below, please contact with the technical center in case of a special requirement!

Structural Drawing G					
1	Pump Cover	11	Stuffing Gland	21	Inner-Hexangular Concave end Stress Screw
2	Protective Cover A	12	Double-Suction Seal Ring	22	Round Nut
3	Protective Cover B	13	Column Pin	23	Round Nut Used Thrust Washer
4	Pump Casting	14	Impeller	24	Deep-Ditch Ball Bearing
5	Connection Pipe	15	Key	25	Short Muff
6	Wire-Jam	16	Stuffing Baffle	26	O-Seal Ring
7	Shaft	17	Stuffing Ring	27	Support B
8	Key	18	Stuffing	28	Stuff Muff
9	Oil Seal	19	Bearing Gland	29	Threaded-End Conical Pin
10	Bearing Body A	20	Bearing Body B	30	Support A

■ ■ ASN, ASNV TYPE PUMP ATLAS OF STYLE



■ ■ ASN, ASNV TYPE PUMP ATLAS OF STYLE



■ ■ ASN, ASNV PUMP PERFORMANCE DATE

No.	Pump Type	Capacity		Head	Speed	Motor Power	Eff.	(NPSH) _r	Weight
		(m ³ /h)	(L/s)	(m)	(r/min)	(kw)	(%)	(m)	(kg)
1	80-220 (1)		22.0 83.5 121.0	6.1 23.2 33.6	1480	5.5	82	1.6	181
2		A	20.0 77.2 108.0	5.6 21.4 30.0		4	81		
3		B	17.5 70.4 96.0	4.86 19.6 26.6		3	80.5		
4		C	16.1 64.4 83.0	4.4 17.9 23.0		3	78		
5			60.0 164.5 198.0	16.7 45.7 55.0	2950	45	82	4.5	181
6		A	59.0 152.9 180.0	16.3 42.5 50.0		37	81		
7		B	55.0 138.5 162.0	15.3 38.5 45.0		30	80.5		
8		C	52.0 128.4 144.0	14.4 35.7 40.0		22	77.8		
9	80-220		17.0 66.5 108.0	4.7 18.5 30.0	1480	4	81	1.7	181
10		A	16.0 71.0 98.0	4.4 17.0 27.2		3	80		
11		B	15.0 55.8 85.0	4.2 15.5 23.6		3	78		
12		C	14.5 57.0 72.0	4.0 14.3 20.0		2.2	74		
13			60.0 134.5 162.0	16.6 37.4 45.0	2950	37	81	3.5	181
14		A	58.0 124.2 144.0	16.1 34.5 40.0		30	80		
15		B	57.0 113 129.6	15.8 31.4 36.0		22	78.2		
16		C	55.0 105 126.0	15.2 29.2 35.0		18.5	74		
17	80-280 (1)		26.0 104.5 138.0	7.2 29.0 38.3	1480	11	78.5	2.3	194
18		A	25.0 96 129.0	6.9 26.7 35.8		11	78		
19		B	22.0 88.1 116.0	6.1 24.5 32.2		7.5	76		
20		C	21.0 79.4 105.0	5.8 22.0 29.0		5.5	75		
21			80.0 198.0 234.0	22.0 55.0 65.0	2950	90	78.5	6.3	194
22		A	78.0 192.4 210.0	21.7 53.4 60.0		75	77.5		
23		B	75.0 174.7 198.0	20.8 48.5 55.0		55	76		
24		C	74.0 155.0 180.0	20.5 43.0 50.0		37	75		

■ ■ ASN, ASNV PUMP PERFORMANCE DATE

No.	Pump Type	Capacity			Head (m)	Speed (r/min)	Motor Power (kw)	Eff. (%)	(NPSH)r (m)	Weight (kg)
		(m³/h)	(L/s)							
25	80-280		22.0 86.0 112.0	6.1 23.9 31.1	25.9 20.7 16.5	1480	7.5	77	1.9	194
26		A	21.0 80.4 102.0	5.8 22.3 28.3	21.8 18.1 14.3		7.5	76		
27		B	19.5 73.2 92.0	5.4 20.3 25.5	18.7 15.0 12.0		5.5	75		
28		C	18.0 66.8 82.0	5.0 18.6 22.8	15.8 12.5 10.5		4	74		
29			60.0 172.0 210.0	16.7 47.8 60.0	95.0 82.5 73.0	2950	75	77	6.8	194
30		A	58.0 160.0 198.0	16.1 44.4 55.0	82.0 71.5 63.0		55	76.2		
31		B	57.0 146.7 180.0	15.8 40.8 50.0	68.0 60.0 52.0		45	75.2		
32		C	56.0 132.6 162.0	15.5 36.8 45.0	56.0 49.0 41.0		30	74.4		
33	80-350 (1)		29.0 114.4 131.0	8.1 31.8 36.5	41.0 38.8 37.0	1480	22	71.5	2.3	204
34		A	26.0 105.0 126.0	7.2 27.8 36.7	35.0 33.0 28.0		15	70.5		
35		B	22.0 96.3 108.0	6.1 26.8 30.0	29.0 27.5 26.0		15	70		
36		C	20.0 87.1 102.0	5.6 24.2 28.3	23.0 22.5 21.0		11	67.5		
37	80-350		26.0 100.0 132.0	7.2 27.8 36.7	37.0 35.5 27.9	1480	15	73	2.5	204
38		A	22.0 93.1 108.0	6.1 25.9 30.0	32.0 30.8 29.0		15	70		
39		B	20.0 82.8 95.4	5.6 23.0 26.5	26.0 25.5 24.0		11	66		
40		C	18.0 70.0 71.0	5.0 19.4 19.7	23.0 20.0 19.0		7.5	64		
41	100-260 (1)		38.0 145.0 212.0	10.6 40.3 58.9	23.5 18.8 13.1	1480	11	82.5	2.3	194
42		A	37.0 132.9 192.0	10.3 36.9 53.0	20.1 15.8 11.5		11	81		
43		B	36.0 122.9 173.0	10.0 34.1 48.1	17.0 13.5 10.2		7.5	79		
44		C	34.0 115.9 154.0	9.4 32.2 42.8	14.5 11.0 8.9		5.5	77.5		
45			148.5 289.0 342.0	41.3 80.3 90.0	86.0 75.0 62.0	2950	90	82.5	6.3	194
46		A	120.8 264.9 306.0	33.6 73.6 85.0	74.0 63.0 52.9		75	80.5		
47		B	70.0 240.6 288.0	19.4 66.8 80.0	65.0 52.0 43.5		55	79		
48		C	60.0 223.4 252.0	16.7 62.0 70.0	56.0 44.8 37.0		45	78		

■ ■ ASN, ASNV PUMP PERFORMANCE DATE

No.	Pump Type	Capacity			Head (m)	Speed (r/min)	Motor Power (kw)	Eff. (%)	(NPSH)r (m)	Weight (kg)
		(m³/h)	(L/s)							
49	100-260		30.0 123.5 170.0	8.3 34.3 47.2	21.7 17.0 12.5	1480	11	81.5	1.9	260
50		A	28.0 114.0 154.0	7.8 31.7 42.8	19.0 14.5 11.3		7.5	79.5		
51		B	26.0 105.9 143.0	7.2 29.4 39.7	16.3 12.5 9.2		7.5	78		
52		C	25.0 99.3 131.0	6.9 27.6 36.4	13.3 11.0 7.9		5.5	76		
53			52.0 245.5 288.0	14.4 68.2 80.0	81.0 68.0 60.0	2950	75	81.5	7.4	260
54		A	51.5 227.7 270.0	14.3 63.3 75.0	69.0 58.5 50.0		55	79.5		
55		B	50.5 212.6 252.0	14.0 59.0 70.0	60.0 51.0 42.0		45	77.5		
56		C	49.0 195.2 234.0	13.6 54.2 65.0	51.0 43.0 35.0		37	76		
57	100-300		100 160 200	22 44 56	128 121 110	2950	90	72	10	200
58		A	90 150 190	25 42 53	116 109 96		75	70.5		
59		B	85 140 180	24 39 50	102 96 5		75	69		
60		C	80 130 170	22 36 47	89 84 73		55	67.5		
61	100-320 (1)		47.0 185.5 225.0	13.1 51.5 62.5	38.1 31.2 26.0	1480	22	80	2.6	300
62		A	42.0 172.6 204.0	11.7 47.9 56.7	33.2 27.0 22.5		18.5	79.6		
63		B	38.0 157.5 184.0	10.6 43.8 51.1	27.9 22.5 18.5		15	79.3		
64		C	37.0 142.8 165.0	10.3 39.7 45.8	23.2 18.5 16.0		11	79		
65			185.0 368.0 432.0	51.4 102.2 120.0	152.0 123.0 102.0	2950	200	80	11	300
66		A	140.0 341.6 396.0	38.9 94.9 110.0	135.0 106.0 89.5		160	79.6		
67		B	100.0 314.8 360.0	27.7 87.4 100.0	117.0 90.0 80.0		132	79.3		
68		C	119.0 245.4 288.0	33.1 68.2 80.0	88.0 74.0 64.0		90	79		
69	100-320		50.0 141.5 174.0	13.9 39.3 48.3	36.0 29.5 25.5	1480	18.5	78	2.2	300
70		A	48.0 131.6 164.0	13.3 36.6 45.6	31.0 25.5 21.6		15	77.6		
71		B	47.0 120.0 152.0	13.1 33.3 42.2	26.0 21.2 17.9		11	77.3		
72		C	44.0 112.4 143.0	12.2 31.2 19.7	21.5 17.0 14.1		11	77		

■ ■ ASN, ASNV PUMP PERFORMANCE DATE

No.	Pump Type		Capacity		Head	Speed	Motor Power	Eff.	(NPSH) _r	Weight
			(m ³ /h)	(L/s)	(m)	(r/min)	(kw)	(%)	(m)	(kg)
73	100-320		70.0 283.0 324.0	19.4 78.6 90.0	141.0 119.0 108.0	2950	160	78	9.5	300
74		A	65.0 263.3 306.0	18.1 73.1 85.0	121.0 103.0 90.0		132	77.6		
75		B	61.3 237.8 270.0	17.0 66.0 75.0	98.0 84.0 74.0		90	77.3		
76		C	60.9 215.5 252.0	16.9 60.0 70.0	80.0 69.0 58.0		75	77		
77	100-400 (1)		70.0 185.5 216.0	19.4 51.5 60.0	57.0 52.0 45.0	1480	45	73	2.5	241
78		A	65.0 170.6 198.0	18.1 47.4 55.0	49.0 44.0 38.0		37	72		
79		B	62.0 158.6 180.0	17.2 44.0 50.0	43.0 38.0 33.0		30	71		
80		C	58.0 141.6 162.0	16.1 39.3 45.0	33.0 30.3 26.0		22	69		
81	100-400		60.0 163.0 187.2	16.7 45.3 52.0	56.0 52.0 45.0	1480	45	72	3.1	241
82		A	58.0 149.9 180.0	16.1 41.6 50.0	47.0 44.0 38.0		37	69		
83		B	54.0 138.4 162.0	15.0 38.5 45.0	40.0 37.5 33.0		30	66.5		
84		C	51.0 121.1 144.0	14.2 33.6 40.0	31.0 28.7 25.8		18.5	63		
85	125-240 (1)		100.0 274.6 370.0	27.8 76.3 102.8	20.2 14.8 9.1	1480	18.5	85.5	2.2	400
86		A	92.0 259.3 332.0	25.6 72.0 92.2	18.3 13.2 8.3		15	84.5		
87		B	82.0 232.4 285.0	22.8 64.5 79.2	15.9 10.6 7.6		15	82.5		
88		C	78.0 232.4 285.0	21.7 58.5 66.7	13.2 8.7 6.8		11	77.5		
89			139.5 533.5 612.0	38.7 148.2 170.0	83.5 60.0 50.0	2950	132	85.5	8	400
90		A	124.0 496.7 576.0	34.4 138.0 160.0	72.0 52.0 36.0		110	84		
91		B	119.0 454.3 552.0	33.1 126.2 145.0	60.0 43.5 32.0		75	82		
92		C	103.0 411.6 460.0	28.6 114.3 127.8	48.0 34.0 30.0		75	77		
93	125-240		100.0 256.5 320.1	27.8 71.2 88.9	20.2 15.1 10.8	1480	15	84.5	2.2	400
94		A	94.0 242.5 300.4	26.1 67.4 83.4	17.6 13.5 9.1		15	84		
95		B	90.0 223.8 265.0	25.0 62.2 73.6	15.0 11.5 8.4		11	82		
96		C	82.0 199.1 220.0	22.8 55.3 61.1	12.4 9.1 7.8		7.5	78		

■ ■ ASN, ASNV PUMP PERFORMANCE DATE

No.	Pump Type	Capacity		Head (m)	Speed (r/min)	Motor Power (kw)	Eff. (%)	(NPSH)r (m)	Weight (kg)	
		(m³/h)	(L/s)							
97	125-240		111.0 472.5 540.0	30.8 131.2 150.0	2950	110	84.5	8.7	400	
98		A	106.0 442.2 504.0	29.4 122.8 140.0						68.0 53.0 45.0
99		B	102.0 393.7 450.0	28.3 109.4 125.0						
100		C	90.0 369.5 432.0	25.0 102.6 120.0						47.0 37.0 30.0
101	125-300 (1)		100.0 270.0 375.0	27.8 75.0 104.2	1480	30	84	2.1	350	
102		A	80.3 243.7 348.0	22.3 67.7 96.7						27.5 22.0 15.5
103		B	75.0 220.5 310.0	20.8 61.2 86.1						
104		C	60.5 195.8 270.0	16.8 54.4 75.0						19.0 14.2 10.5
105			380.0 535.5 612.0	105.6 148.8 170.0	2950	220	84	8.2	350	
106		A	285.0 483.4 558.0	79.2 134.3 155.0						98.0 88.0 80.0
107		B	190.0 437.2 504.0	52.8 121.5 140.0						
108		C	90.2 389.0 450.0	25.1 108.1 125.0						66.0 57.0 50.0
109	125-300		100.0 242.5 370.0	27.8 67.4 102.8	1480	30	83	1.9	350	
110		A	90.3 222.3 290.0	25.1 61.8 80.6						26.3 21.0 15.0
111		B	80.0 202.9 250.0	22.2 56.4 69.4						
112		C	70.1 179.5 210.0	19.5 49.9 58.3						17.3 13.7 11.9
113			230.0 479.0 558.0	63.9 133.1 155.0	2950	200	83	7.9	350	
114		A	182.0 437.7 504.0	50.5 121.6 140.0						93.0 83.5 75.0
115		B	128.0 400.8 468.0	35.6 111.3 130.0						
116		C	85.0 355.0 414.0	23.6 98.7 115.0						63.0 55.0 48.0
117	125-380 (1)		125.0 310.5 360.0	34.7 86.3 100.0	1480	75	80	2.1	400	
118		A	104.0 282.8 324.0	28.9 78.6 90.0						43.0 39.0 31.8
119		B	93.0 254.2 288.0	25.8 70.6 80.0						
120		C	85.5 221.9 252.0	23.7 61.6 70.0						26.0 24.0 22.0

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No.	Pump Type		Capacity		Head	Speed	Motor Power	Eff.	(NPSH) _r	Weight
			(m ³ /h)	(L/s)	(m)	(r/min)	(kw)	(%)	(m)	(kg)
121	125-380		100.2 278.0 324.0	27.8 77.2 99.0	47.0 43.0 38.0	1480	55	79	2.4	400
122		A	92.1 257.9 288.0	25.8 71.6 80.0	40.0 37.0 35.0		45	78		
123		B	84.0 234.1 270.0	23.3 65.0 75.0	33.0 30.5 27.0		30	77		
124		C	79.1 209.8 241.2	22.0 58.3 67.0	27.0 24.5 20.0		22	76		
125	125-400		160.0 260.0 310.0	44.0 72.0 86.0	178.0 166.0 153.0	2950	200	69	8.5	460
126		A	140.0 235.0 280.0	39.0 65.0 78.0	148.0 139.0 133.0		160	68		
127		B	130.0 225.0 250.0	36.0 63.0 69.0	131.0 120.0 113.0		132	67		
128			280 440 500	77.8 122.2 138.9	233.5 225 220		450	68		
129	125-450	A	265 410 470	73.6 113.9 130.6	218 210 206	2950	400	67	7	500
130		B	240 380 435	66.7 105.6 120.8	202.5 195 190		355	66		
131			109.2 328.5 380.4	30.3 91.3 105.7	80.0 76.0 71.0		110	80		
132		A	100.0 307.3 350.9	27.8 85.4 97.4	70.0 66.5 62.0		90	78.5		
133	125-480 (1)	B	80.4 282.0 300.4	22.3 78.3 83.4	59.0 56.0 53.0	1480	75	77	2.3	500
134		C	60.0 250.4 270.4	16.6 69.6 75.1	47.0 44.2 40.8		45	76		
135			100.0 294.5 342.0	27.8 81.8 95.0	72.0 69.5 64.0		90	79		
136		A	90.1 274.8 320.2	25.0 76.3 88.9	63.0 60.5 55.1		75	78		
137	125-480	B	85.3 257.2 284.5	23.7 71.4 79.0	55.0 53.0 48.0	1480	75	77	2.7	500
138		C	78.5 230.0 238.8	21.8 63.9 66.3	45.0 43.5 41.3		45	76		
139			250 400 470	69.4 111.1 130.6	110.5 107 104		220	70		
140		A	230 370 435	63.9 102.8 120.8	95 92 89		200	69		
141	125-570	B	210 340 400	58.3 94.4 111.1	82 80 77	1480	185	68	4	700

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No.	Pump Type		Capacity		Head	Speed	Motor Power	Eff.	(NPSH)r	Weight
			(m³/h)	(L/s)	(m)	(r/min)	(kw)	(%)	(m)	(kg)
142	150-280 (1)		160.0 443.5 504.0	44.4 123.2 140.0	27.5 21.0 17.0	1480	37	87	2.4	450
143		A	150.5 410.6 468.0	41.8 114.0 130.0	24.0 18.0 15.0		30	86		
144		B	130.0 367.0 432.0	36.1 101.9 120.0	20.0 15.0 11.7		22	84		
145		C	123.0 338.2 395.0	34.1 93.9 109.7	16.0 11.5 10.0		18.5	77		
146	150-280		140.0 397.0 450.0	38.9 110.3 125.0	26.0 20.4 18.0	1480	37	86	2.5	450
147		A	135.0 362.4 414.0	37.5 100.7 115.0	22.0 17.0 15.0		30	85		
148		B	128.0 340.7 396.0	35.6 94.6 110.0	18.0 14.5 12.0		22	84		
149		C	120.0 318.1 360.0	33.3 88.4 100.0	15.0 11.5 9.3		18.5	80		
150	150-310		210 350 406	58.3 97.2 112.8	33 29.5 27	1480	45	80	3	400
151		A	190 310 350	52.8 86.1 97.2	27.5 25 23		37	79		
152		B	165 270 310	45.8 75.0 86.1	22 20 18.5		30	78		
153	150-350 (1)		180.0 447.5 522.0	50.0 124.3 145.0	43.0 35.0 31.2	1480	75	85	2.9	410
154		A	175.0 404.2 468.0	48.6 112.3 130.0	37.0 31.0 27.0		55	83		
155		B	162.0 363.0 414.0	45.0 100.8 115.0	30.0 25.0 21.0		37	81		
156		C	150.0 324.7 378.0	41.7 90.2 105.0	24.0 20.0 17.0		30	78		
157	150-450 (1)		200.0 515.5 594.0	55.6 143.2 165.0	76.1 66.0 48.0	1480	132	82	3.0	630
158		A	190.0 468.4 540.0	52.8 130.0 150.0	64.0 54.5 48.0		110	81		
159		B	180.0 418.5 486.0	50.0 116.3 135.0	50.0 43.5 38.0		75	80		
160		C	175.0 375.4 432.0	48.6 104.3 120.0	41.0 35.0 32.0		55	78.5		
161	150-450		150.0 440.0 582.0	41.7 122.2 161.7	67.0 60.0 47.0	1480	110	81	3.4	630
162		A	140.0 401.7 468.0	38.9 111.6 130.0	56.0 50.0 46.0		90	80.5		
163		B	129.0 359.3 414.0	35.8 99.8 115.0	45.5 40.0 38.0		75	80		
164		C	115.0 326.3 378.0	31.9 90.6 105.0	37.0 33.0 30.5		45	78		

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No.	Pump Type		Capacity		Head	Speed (r/min)	Motor Power	Eff.	(NPSH) _r	Weight
			(m³/h)	(L/s)	(m)		(kw)	(%)	(m)	(kg)
165	150-570 (1)		200.0 584.0 684.0	55.6 162.2 190.0	119.0 105.0 95.0	1480	250	80	3.7	1100
166		A	180.0 536.2 612.0	50.0 148.9 170.0	101.0 88.5 83.0		200	79		
167		B	169.0 493.6 576.0	46.9 137.1 160.1	86.0 75.0 70.0		160	78		
168		C	150.0 450.0 522.0	41.7 125.0 145.0	70.0 61.5 55.9		132	77		
169	150-570		200.0 537.0 620.0	55.6 149.2 172.2	103.0 90.0 81.9	1480	200	79	4.2	1100
170		A	96.3 499.9 580.0	26.7 138.9 161.1	89.0 78.0 70.0		160	78		
171		B	82.8 468.5 540.0	23.0 130.1 150.0	78.0 68.5 61.0		132	77		
172		C	70.0 419.2 486.0	19.4 116.4 135.0	65.0 57.5 53.0		110	76		
173	200-340 (1)		250.0 695.5 810.0	69.4 193.2 225.0	38.0 30.0 25.0	1480	90	87.5	4.2	590
174		A	240.0 641.2 738.0	66.7 178.1 205.0	32.0 25.5 22.0		75	86.5		
175		B	230.0 586.0 684.0	63.9 162.8 190.0	26.0 21.3 17.0		55	85		
176		C	220.0 530.0 610.0	61.1 147.2 169.4	22.0 17.0 14.0		37	79		
177	200-340		250.0 638.0 738.0	69.4 177.2 205.0	34.0 28.0 24.0	1480	75	86.5	4.1	590
178		A	240.0 596.8 738.0	66.7 165.8 205.0	29.0 24.5 18.0		55	86		
179		B	235.0 552.5 648.0	65.2 153.5 180.0	25.0 21.0 17.0		45	84		
180		C	225.0 497.1 576.0	62.5 138.1 160.0	26.0 17.0 14.0		37	82		
181	200-340 (1)		265.0 702.0 810.0	73.6 195.0 225.0	62.8 48.0 42.0	1480	132	86.5	4.2	620
182		A	249.0 648.0 756.0	69.1 180.0 210.0	54.0 42.0 36.0		110	84.5		
183		B	238.0 612.0 702.0	66.1 170.0 195.0	46.0 35.5 30.0		90	83		
184		C	220.0 525.6 612.0	61.1 146.0 170.0	36.0 28.5 25.0		75	81		
185	200-410		250.0 649.0 756.0	69.4 180.3 210.0	60.0 48.0 43.0	1480	132	85.5	3.8	620
186		A	236.0 596.1 684.0	65.6 165.6 190.0	51.0 40.5 37.0		90	84		
187		B	215.0 550.2 630.0	59.7 152.8 175.0	44.2 34.5 31.0		75	82		
188		C	209.0 495.7 576.0	58.1 137.7 160.0	34.0 28.0 23.0		55	78		

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No.	Pump Type		Capacity		Head	Speed (r/min)	Motor Power	Eff.	(NPSH) _r	Weight
			(m³/h)	(L/s)	(m)		(kw)	(%)	(m)	(kg)
189	200-530 (I)		475.0 818.0 936.0	131.9 227.2 260.0	99.0 91.0 85.0	1480	315	83	4.1	970
190		A	460.0 750.0 864.0	127.8 208.3 240.0	82.0 76.5 71.0		250	82		
191		B	440.0 687.9 792.0	122.2 191.1 220.0	67.0 62.5 58.0		200	80		
192		C	420.0 630.0 720.0	116.7 175.0 200.0	51.5 47.5 44.0		132	78.5		
193	200-530		260.0 735.0 846.0	72.2 204.2 235.0	87.5 81.7 75.0	1480	250	82	3.9	970
194		A	250.0 670.5 774.0	69.4 186.3 215.0	73.5 68.0 63.0		200	81		
195		B	240.0 633.0 720.0	66.7 175.8 200.0	60.0 55.0 51.0		160	80		
196		C	230.0 576.3 666.0	63.9 160.1 185.0	47.5 43.5 40.0		110	78		
197	200-660 (1)		280.0 756.0 935.0	77.8 210.0 259.7	164.0 148.0 135.0	1480	500	80	3.1	1120
198		A	270.0 729.7 846.0	75.0 202.7 235.0	142.0 127.0 120.0		450	78.5		
199		B	260.0 669.8 774.0	72.2 186.0 215.0	120.0 107.0 103.0		315	77		
200		C	250.0 637.4 738.0	69.4 177.0 205.0	99.0 88.0 83.0		250	76		
201	200-660		250.0 721.0 828.0	69.4 200.2 230.0	147.0 132.5 127.0	1480	400	79	2.9	1120
202		A	240.0 670.2 774.0	66.7 186.2 215.0	127.0 114.5 110.0		355	78.5		
203		B	230.0 621.6 720.0	63.9 172.7 200.0	110.0 98.5 93.0		250	78		
204		C	215.0 570.6 666.0	59.7 158.5 185.0	92.0 83.0 75.0		200	77		
205	200-740		550 700 850	153 194 236	205 200 192	1480	710	69	5.3	1700
206		A	520 685 820	144 190 228	187 180 172		630	67		
207		B	550 700 850	153 194 236	205 200 192		630	65		
208		C	520 685 820	144 190 228	187 180 172		560	64		
209	250-390 (1)		400.0 1052.0 1224.0	111.1 292.2 340.0	50.0 39.0 31.0	1480	160	88	4.5	700
210		A	380.0 967.7 1134.0	105.6 268.8 315.0	42.5 33.0 27.0		132	86		
211		B	379.0 915.3 1062.0	105.3 254.3 295.0	36.0 27.0 22.0		110	83		
212		C	350.0 843.3 972.0	97.2 234.3 270.0	27.0 20.0 15.0		75	77.5		

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No.	Pump Type		Capacity		Head	Speed (r/min)	Motor Power	Eff.	(NPSH) _r	Weight
			(m³/h)	(L/s)	(m)		(kw)	(%)	(m)	(kg)
213	250-390		400.0 1030.5 1188.0	111.1 286.3 330.0	47.0 37.0 30.0	1480	160	87	4	700
214		A	390.0 958.3 1116.0	108.3 266.2 310.0	41.0 32.0 26.0		110	86		
215		B	375.0 880.3 954.0	104.2 244.5 265.0	38.0 27.0 24.5		110	84		
216		C	350.0 819.6 936.0	97.2 227.7 260.0	28.0 22.0 18.0		75	82		
217	250-470 (1)		420.0 1174.5 1368.0	116.7 326.3 380.0	84.0 63.0 50.0	1480	280	87	5	1160
218		A	400.0 1072.2 1242.0	111.1 297.8 345.0	72.0 55.0 44.0		220	85		
219		B	370.0 975.2 1134.0	102.8 270.9 315.0	60.0 45.5 40.0		200	83		
220		C	330.0 903.3 1044.0	91.7 250.9 290.0	49.6 37.5 31.2		160	80		
221	250-470		400.0 1081.0 1260.0	111.1 300.3 350.0	72.0 54.5 45.0	1480	220	84	4.5	1160
222		A	370.0 1003.9 1152.0	102.8 278.9 320.0	63.0 47.0 40.0		200	82.5		
223		B	350.0 911.0 1044.0	97.2 253.0 290.0	54.0 40.5 37.0		160	80.5		
224		C	340.0 830.0 954.0	94.4 230.6 265.0	45.0 34.5 30.0		132	78.5		
225	250-550		900.0 1150.0 1350.0	250.0 319.0 375.0	98.0 90.0 81.0	1480	400	85	4.5	990
226		A	850.0 1100.0 1300.0	236.0 306.0 361.0	99.0 81.0 70.0		355	83		
227		B	800.0 1050.0 1250.0	222.0 292.0 347.0	82.0 74.0 64.0		315	81		
228		C	750.0 1000.0 1200.0	208.0 278.0 333.0	74.0 67.0 58.0		280	79		
229	250-600		780 1200 1400	216.7 333.3 388.9	127 120 114	1480	560	81	5.5	1550
230		A	700 1100 1300	194.4 305.6 361.1	112.5 105 98.5		450	80		
231		B	650 1000 1170	180.6 277.8 325.0	91 85 80		355	79		
232	250-820		730 1200 1440.0	203 333 400.0	192 186 169	1480	1000	79	4.5	2000
233		A	700 1150 1380.0	194 319 383.3	173 164 150		900	78		
234		B	670 1100 1314.0	186 306 365.0	155 148 130		800	77		

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No.	Pump Type		Capacity		Head	Speed (r/min)	Motor Power (kw)	Eff. (%)	(NPSH) _r (m)	Weight (kg)
			(m³/h)	(L/s)	(m)					
235	300-330 (1)		500.0 1099.0 1314.0	138.9 305.3 365.0	31.0 23.0 16.0	1480	110	86	5.7	900
236		A	480.0 1020.0 1224.0	133.3 283.3 340.0	27.0 19.8 14.0		90	84.5		
237		B	460.0 970.0 1170.0	127.8 269.4 325.0	22.0 15.5 11.0		75	82		
238		C	440.0 920.0 1098.0	122.2 255.6 305.0	18.0 11.5 7.5		45	80		
239	300-330		400.0 940.0 1134.0	111.1 261.1 315.0	30.0 23.0 18.5	1480	90	85	5.3	900
240		A	390.0 876.6 1044.0	108.3 243.5 290.0	26.0 20.0 16.0		75	84		
241		B	370.0 801.0 954.0	102.8 222.5 265.0	21.0 16.7 13.0		55	81		
242		C	350.0 705.0 846.0	97.2 195.8 235.0	17.0 13.7 9.0		37	77		
243	300-450 (1)		700.0 1678.5 1980.0	194.4 466.3 550.0	67.5 53.0 45.0	1480	315	88	5.2	1400
244		A	660.0 1576.8 1890.0	183.3 438.0 525.0	56.0 45.0 37.0		280	86.5		
245		B	620.0 1476.0 1764.0	172.2 410.0 490.0	45.0 36.5 30.0		200	84		
246		C	600.0 1360.8 1450.0	166.7 378.0 402.8	35.0 27.5 24.5		160	79		
247	300-450		600.0 1620.0 1944.0	166.7 450.0 540.0	64.0 51.5 42.0	1480	315	87.5	5.5	1400
248		A	580.0 1519.2 1818.0	161.1 422.0 505.0	57.0 45.0 37.0		250	86.5		
249		B	560.0 1422.0 1710.0	155.6 395.0 475.0	46.0 37.5 31.0		200	84		
250		C	540.0 1332.0 1620.0	150.0 370.0 450.0	38.0 30.5 25.0		160	81.5		
251	300-550 (1)		700.0 1750.0 2106.0	194.4 486.1 585.0	104.0 94.0 82.0	1480	630	86	4.7	1800
252		A	680.0 1645.2 1980.0	188.9 457.0 550.0	86.0 76.0 68.0		500	85.5		
253		B	650.0 1573.2 1890.0	180.6 437.0 525.0	71.0 62.0 55.0		450	85		
254		C	620.0 1515.6 1818.0	172.2 421.0 505.0	59.0 50.0 43.0		315	83.5		
255	300-550		600.0 1550.0 1854.0	166.7 430.5 515.0	91.0 80.0 73.0	1480	500	84.5	5	1800
256		A	590.0 1447.2 1728.0	163.9 402.0 480.0	76.0 67.0 60.0		400	83.5		
257		B	580.0 1360.8 1638.0	161.1 378.0 455.0	63.0 57.0 50.0		315	83		
258		C	570.0 1281.6 1530.0	158.3 356.0 425.0	54.0 47.5 42.0		250	82		

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No.	Pump Type		Capacity		Head	Speed (r/min)	Motor Power	Eff.	(NPSH) _r	Weight
			(m³/h)	(L/s)	(m)		(kw)	(%)	(m)	(kg)
259	300-710 (1)		900.0 1836.0 2100.0	250.0 510.0 583.3	168.0 156.0 149.0	1480	1250	85	5	2100
260		A	960.0 1735.2 2030.0	266.7 482.0 563.9	147.0 136.0 129.0		100	84.6		
261		B	800.0 1623.6 1880.0	222.2 451.0 522.2	122.0 112.0 107.0		800	84.3		
262		C	700.0 1537.2 1600.0	194.4 427.0 444.4	100.0 91.0 90.0		560	84		
263			600.0 1690.0 2016.0	166.7 469.4 560.0	150.0 139.0 123.0		1000	83.5		
264	300-710	A	580.0 1573.2 1890.0	161.1 437.0 525.0	128.0 119.0 107.0	1480	800	83	4.5	2100
265		B	540.0 1450.8 1746.0	150.0 403.0 485.0	108.0 99.0 90.0		630	82.5		
266		C	510.0 1342.8 1650.0	141.7 373.0 458.3	90.0 81.0 74.0		450	82		
267			600.0 1548.0 1836.0	166.7 430.0 510.0	44.5 33.0 21.0		200	86.5		
268	350-380 (1)	A	580.0 1450.0 1728.0	161.1 470.0 480.0	39.0 30.0 20.5	1480	160	85	8	1200
269		B	560.0 1400.0 1674.0	155.5 456.0 465.0	34.0 25.0 17.0		132	83		
270		C	540.0 1300.0 1566.0	150.0 445.0 435.0	27.9 21.0 15.0		110	80.5		
271			500.0 1424.0 1710.0	138.9 395.6 475.0	42.5 31.0 21.8		160	85.5		
272	350-380	A	460.0 1335.6 1602.0	127.8 371.0 445.0	37.9 26.3 17.0	1480	132	84	6.7	1200
273		B	430.0 1270.8 1530.0	119.4 353.0 425.0	32.5 22.5 15.5		110	82		
274		C	410.0 1188.0 1400.0	113.9 330.0 388.9	27.5 17.8 17.1		90	78		
275			1000.0 2745.0 3294.0	277.8 762.5 915.0	59.0 43.5 31.0		450	87.5		
276	350-440 (1)	A	950.0 2635.2 3168.0	263.9 732.0 880.0	50.5 35.0 22.0	1480	355	85.5	9.8	1650
277		B	900.0 2563.2 3078.0	250.0 712.0 855.0	43.0 27.5 18.5		280	84		
278		C	890.0 2484.0 2988.0	247.2 690.0 830.0	36.0 21.5 13.0		220	81		
279			750.0 2235.0 2682.0	208.3 620.8 745.0	59.0 42.5 30.0		355	86.5		
280	350-440	A	700.0 2088.0 2502.0	194.4 580.0 695.0	51.5 36.0 25.0	1480	280	84.5	9.5	1650
281		B	680.0 1987.2 2400.0	188.9 552.0 666.7	45.0 30.0 23.0		250	82		
282		C	650.0 1847.6 2010.0	180.6 516.0 558.3	38.0 25.0 22.0		200	78.5		

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No.	Pump Type	Capacity		Head (m)	Speed (r/min)	Motor Power (kw)	Eff. (%)	(NPSH)r (m)	Weight (kg)	
		(m³/h)	(L/s)							
283	350-520 (1)		1350.0 2200.0 2646.0	375.0 725.0 735.0	94.0 74.0 61.0	1480	630	88.5	8.5	1400
284		A	1100.0 2106.0 2520.0	305.6 585.0 700.0	82.0 67.0 55.0		560	87		
285		B	750.0 1998.0 2394.0	208.3 555.0 665.0	78.0 59.0 49.0		450	86		
286		C	505.0 1836.0 2196.0	140.3 510.0 610.0	65.0 50.5 41.5		355	79		
287	350-520		850 2450 3350	236.1 680.6 930.6	92 67 47.5	1480	630	88	8	1400
288		A	800 2268 3200	222.2 630 888.9	81.5 59.5 38		560	87		
289		B	750 1890 2268	208.3 525 630	71 54 44.5		450	85		
290		C	700 1944 2300	194.4 540 639	60 41.5 30.5		355	83		
291	350-640		1470 2160 2448	408.3 600 680	138.5 126.2 116	1480	1000	85	7.5	2570
292		A	1290 2000 2376	358.3 556 660	128 116 107		900	84		
293		B	1185 1920 2304	329.2 533.3 640	117.8 106 96		800	82		
294		C	1110 1830 2196	308.3 508.3 610	107.8 95.6 88		710	80		
295	350-800	D	1050 1695 2052	291.7 470.8 570	93.8 83 76	1480	560	78	7.5	2900
296			2100 2650 3000	583 736 833	208 195 180		2000	82		
297		A	2050 2500 2900	569 694 806	188 175 162		1800	81.5		
298		B	1950 2400 2800	542 667 778	170 160 145		1600	81		
299	450-550 (1)	C	1800 2200 2500	500 611 694	147 140 130	1480	1250	80.5	7.5	2100
300			1535 2635 3100	426.3 731.9 861	98 86 75		800	85		
301		A	1470 2520 3024	408.3 700 840	91 77 66		710	83		
302		B	1420 2418 2890	394 671.6 805	82.6 71.8 63		630	81		
303	450-550 (1)	C	1400 2311.5 2772	388.9 642 770	76 64 58	1480	630	79	7.5	2100
304		D	1380 2235.6 2682	383.3 621 745	69 57.8 52		560	77		

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No.	Pump Type		Capacity		Head	Speed	Motor Power	Eff.	(NPSH) _r	Weight
			(m ³ /h)	(L/s)	(m)	(r/min)	(kw)	(%)	(m)	(kg)
305	400-500		1320 2190 2628	366.7 608.3 730	77 63.8 54	1480	500	86	7	2100
306		A	1280 2045.5 2448	355.6 568.2 680	69.8 57.8 48		450	84		
307		B	1230 1882 2450	341.7 522.7 680.6	61.2 51.2 39		400	82		
308		C	1211 1767.6 2106	336.4 491 585	53.2 45 38		315	80		
309	400-600		1571 2502 3006	436.4 695 835	101.2 85 76	1480	800	86	8.5	2500
310		A	1508 2422 2898	419 672.7 805	93.2 78 71		710	84		
311		B	1500 2354 2826	416.7 654 785	86 74 64		630	82		
312		C	1470 2225.5 2664	410 618.2 740	78.8 68 61		560	80		
313		D	1505 2127.6 2500	418.2 591 722	69 59.8 55		500	78		
314			1919 3050 3654	533 847.2 1015	129.7 106 90	1480	1250	86	9	2500
315	400-600 (1)	A	1780 2950 3474	494.4 835.3 965	119 100 88		1120	84		
316		B	1740 2922.4 3510	483.3 811.8 975	109.2 93 77		1000	82		
317		C	1600 2732 3312	444.4 758.8 920	99.8 83.7 69		900	80		
318		D	1530 2641.6 3186	425 706 885	90 74 61		800	78		
319			2466 3510 4032	685 975 1120	150 138 128	1480	1800	84	10	2700
320	400-660	A	2394 3402 3906	665 945 1085	142 130 120		1600	83		
321		B	2322 3294 3780	645 915 1050	134 122 112		1600	82		
322		C	2232 3186 3654	620 885 1015	126 114 104		1400	81		
323		D	2178 3096 3546	605 860 985	118 106 96		1250	80		

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No.	Pump Type		Capacity		Head	Speed	Motor Power	Eff.	(NPSH)r	Weight
			(m³/h)	(L/s)	(m)	(r/min)	(kw)	(%)	(m)	(kg)
324	500-520 (1)		1415	393	18.4	730	132	85	4.3	2800
			2397	666	13.9					
			2950	819	9.8					
325		A	1363	379	16.9		110	83		
			2300	639	12.8					
			2831	786	9.0					
326		B	1304	362	15.9	730	110	82	4.3	2800
			2208	613	11.7					
			2719	755	8.5					
327		C	1251	348	14.4		90	80		
			2120	589	10.2					
			2596	721	7.2					
328		D	1192	331	13.2	980	75	78	6.5	2800
			2035	565	9.0					
			2369	658	6.5					
329			1900	527.8	33.2		315	87		
			3096	860	27					
			3726	1035	20					
330		A	1830	508.3	30.5		280	86		
			3024	840	23					
			3629	1008	17.5					
331		B	1750	486	26.5		220	84		
			2964.5	823.3	20.5					
			3564	990	16					
332		C	1680	466.7	24		200	82		
			2846	790.6	18.4					
			3384	940	14					
333		D	1600	444.4	21		185	80		
			2732	758.9	16.3					
			3180	883.3	13					
334	500-520		1102	306	17.4	730	110	84	3.8	3200
			2069	575	12.5					
			2682	745	7.8					
335		A	1043	290	15.4		90	82		
			1965	546	10.8					
			2548	708	6.8					
336		B	931.1	259	12.2	730	75	80	3.8	3200
			1850	514	8.7					
			2235	621	6.2					
337		C	864.1	240	10.3		75	76		
			1623	450	7.7					
			2078	577	5.1					
338			1480	411	29	980	250	86	6	3200
			2777	771.4	22.5					
			3330	925	17					
339		A	1400	388.9	25		200	84		
			2638	732.8	19.5					
			3204	890	14.5					
340		B	1250	347.2	22		185	81		
			2484	690	17					
			3000	833.3	13					
341		C	1600	322.2	18		132	78		
			2268	630	15					
			2700	750	12					

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No.	Pump Type	Capacity		Head (m)	Speed (r/min)	Motor Power (kw)	Eff. (%)	(NPSH)r (m)	Weight (kg)						
		(m³/h)	(L/s)												
342	500-650 (1)		1862 2384 2793	517 662 776	30.5 27.7 24.7	280	85	3.8	4100						
343		A	1788 2272 2719	497 631 755	27.7 25.0 22.2					250	83				
344		B	1713 2160 2607	476 600 724	25.0 22.7 19.7							200	82		
345		C	1639 2048 2458	455 569 683	23.9 20.5 18.0									185	80
346		D	1490 1937 2309	414 538 641	20.5 18.0 15.5										
347			2500 3200 3750	694 889 1042	54 50 43	630	88	6.1	4100						
348		A	2400 3050 3650	667 847 1014	49 45 38					560	86				
349		B	2300 2900 3500	639 806 972	44 41 35							450	84		
350		C	2200 2750 3300	611 764 917	40 37 31									400	82
351		D	2000 2600 3100	556 722 861	36 32.5 28										
352		500-650		1356 2229 2898	377 619 805	23.2 18.7 12.9	160	84	3.8	4100					
353			A	1289 2112 2752	358 587 765	21.0 16.8 11.7					132	82			
354			B	1218 2028 2600	338 563 722	18.9 15.4 10.5							132	80	
355			C	1143 1968 2443	318 547 679	16.1 13.3 9.4									110
356				1820 2992 3582	505.6 831.3 995	44 33.7 27	355	87	5.8	4100					
357	A		1730 2835 3402	480.6 787.5 945	39 30.2 24	315					86				
358	B		1635 2722.5 3276	454 756.3 910	36 27.7 22							280	82		
359	C		1535 2642.5 3168	426.4 706 880	32 24 19									250	78

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No.	Pump Type		Capacity		Head	Speed	Motor Power	Eff.	(NPSH)r	Weight
			(m³/h)	(L/s)	(m)	(r/min)	(kw)	(%)	(m)	(kg)
360	500-710		1713 2869 3754	476 797 1043	40.6 35.7 30.0	730	400	85	4.2	3550
361		A	1639 2735 3605	455 760 1001	37.3 32.8 26.1		355	83		
362		B	1564 2585 3218	435 718 894	33.5 29.4 23.9		315	82		
363		C	1490 2387 2950	414 663 819	31.3 26.5 21.6		250	80		
364		D	1430 2253 2644	397 626 735	27.7 23.3 19.0		220	78		
365			2300 3852 4626	638.9 1070 1285	73.1 64.4 54	980	900	88.5	5.5	3550
366		A	2200 3672 4410	611.1 1020 1225	67.2 59.2 50		800	87		
367		B	2100 3470.4 4158	583.3 964 1155	60.3 53 45		710	85		
368		C	2000 3204 3834	555.6 890 1065	56.4 47.7 41		560	83		
369		D	1920 3024 3550	533.3 840 986.1	50 42 38		500	81		
370	500-800 (1)		1929 2977 3866	536 827 1074	49.2 44.7 33	730	500	87	4.1	4900
371		A	1832 2682 3486	509 745 968	43.5 40.4 31.5		400	85		
372		B	1743 2387 3054	484 663 848	38.7 36.2 30.5		355	83		
373		C	1639 2145 2682	455 596 745	33.8 32.2 28.9		280	81		
374			2590 3996 4788	719.4 1110 1330	88.7 80.6 59	980	1120	89	6.9	4900
375		A	2460 3600 4320	683.3 1000 1200	78.4 72.8 61.8		900	87		
376		B	2340 3204 3834	650 890 1065	69.8 65.3 57		800	85		
377		C	2200 2880 3600	611.1 800 1000	61 58 49		630	83		

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No.	Pump Type	Capacity		Head	Speed	Motor Power	Eff.	(NPSH)r	Weight
		(m³/h)	(L/s)	(m)	(r/min)	(kw)	(%)	(m)	(kg)
378	500-800		1777 2588 3427	493 719 952	39.2 34.7 26.4	355	86	3.9	4900
379		A	1687 2481 3255	469 689 904	35.0 31.0 24.4		84		
380		B	1602 2346 3091	445 652 859	31.2 27.5 21.8		82		
381		C	1527 2212 2935	424 615 815	26.6 24.2 19.9		78		
382			2385 3474 4600	662.5 965 1277.8	70.7 62.5 47.5	800	88	5.2	4900
383		A	2265 3330 4370	629 925 1213.9	63.1 55.8 44		86		
384		B	2150 3150 4150	597.2 875 1152.8	56.2 49.6 39.2		84		
385		C	2050 2970 3940	569.7 825 1094	48 43.6 35.8		80		
386	500-860 (1)		1877 3116 3708	521 866 1030	68.8 61.7 51	710	87	4.3	5000
387		A	1773 2977 3564	492 827 990	62.4 55.9 47.7		85		
388		B	1676 2816 3628	466 782 1008	56.8 50.2 43.0		81		
389		C	1575 2628 3218	438 730 894	50.2 44.6 39.2		78		
390			2520 3888 4680	700 1080 1300	116 110 103.5	1600	89	6.9	5000
391		A	2380 3762 4518	661.1 1045 1255	105 99 94		87		
392		B	2250 3258 3906	625 905 1085	99 94 87		83		
393		C	2115 3114 3744	587.5 865 1040	92 87 81		80		

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No.	Pump Type		Capacity		Head	Speed	Motor Power	Eff.	(NPSH)r	Weight
			(m³/h)	(L/s)	(m)	(r/min)	(kw)	(%)	(m)	(kg)
394	500-860		1788 2682 3486	497 745 968	55.3 49.9 40.5	730	500	86	3.8	5000
395		A	1713 2601 3352	476 723 931	51.8 46.0 37.7		450	84		
396		B	1639 2521 3203	455 700 890	48.4 42.8 35.4		400	82		
397		C	1557 2387 3043	432 663 845	44.9 39.5 32.7		355	80		
398		D	1479 2295 2868	411 638 797	41.6 36.5 30.9		355	78		
399			2400 3600 4320	666.7 1000 1200	99.6 90 73	980	1120	88.5	5.5	5000
400		A	2300 3492 4176	638.9 970 1160	93.4 82.9 68		1000	86		
401		B	2200 3384 4050	611.1 940.3 1125	87.2 77.2 63.8		900	84		
402		C	2090 3204 3834	580.6 890 1065	81 71.2 59		800	82		
403		D	1985 3081.6 3672	551.4 856 1020	75 65.8 55.6		800	80		
404	500-1050		1564 2607 3352	435 724 931	96.0 83.2 69.4	730	900	83	3.5	6000
405		A	1453 2421 3147	403 672 874	89.9 76.6 61.0		800	82		
406		B	1341 2235 2905	372 621 807	79.3 69.4 55.5		710	81		
407		C	1274 2123 2760	354 590 767	76.6 62.1 48.8		630	80		
408			2100 3500 4068	583 972 1130	159 150 140	980	2000	85	6	6000
409		A	1950 3250 3888	542 903 1080	145 138 132		1800	84		
410		B	1800 3000 3600	500 833 1000	132 125 118		1600	83		
411		C	1710 2850 3420	475 792 950	118 112 104		1400	82		
412			3400 5500 6300	944.4 1527.8 1750.0	186 170 156	980	3550	87	6	11000
413	500-1060	A	3000 5000 5750	833.3 1388.9 1597.2	174 158 148		3150	86		
414		B	2700 4500 5175	750.0 1250.0 1437.5	160 146 136		2800	85		
415		C	2400 4000 4600	666.7 1111.1 1277.8	146 134 125		2240	84		

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No.	Pump Type	Capacity		Head	Speed	Motor Power	Eff.	(NPSH) _r	Weight
		(m³/h)	(L/s)	(m)	(r/min)	(kw)	(%)	(m)	(kg)
416	600-560 (1)		2339 3513 4544	650 976 1262	17.7 13.4 7.9	185	85	5.3	3900
417		A	2212 3298 4224	615 916 1173	15.8 11.9 7.3	160	83		
418		B	2078 3014 3765	577 837 1046	13.2 9.9 6.1	110	81		
419		C	1952 2821 3620	542 784 1006	11.2 8.5 5.5	110	79		
420			3140 4716 5652	872.2 1310 1570	31.9 23 16	500	87	8	3900
422		A	2970 4428 5310	825 1230 1475	28.5 21.5 15	400	85		
422		B	2790 4046.4 4842	775 1124 1345	23.8 17.8 12	280	83		
423		C	2620 3787 4536	727.8 1052 1260	20.2 15.4 10	250	81		
424	600-560		1788 2682 3486	497 745 968	15.2 11.2 7.4	132	83	4.3	3900
425		A	1713 2601 3352	476 723 931	13.4 9.9 6.4	110	81		
426		B	1639 2521 3203	455 700 890	11.5 8.7 5.5	90	79		
427		C	1557 2387 3043	432 663 845	9.6 7.2 4.7	75	77		
428			2665 3996 4752	740 1110 1320	27.4 20.2 15	355	85	7.5	3900
429		A	2545 3744 4464	707 1040 1240	23.5 17.8 13	280	83		
430		B	2420 3461.5 4140	672.2 961.5 1150	20 15.63 11.5	220	81		
431		C	2300 3157 3780	639 877 1050	17 13 9.5	185	79		
432	600-630 (1)		2361 3528 4425	656 980 1229	26.1 21.6 16.6	280	86	5	4000
433		A	2220 3292 4157	617 915 1155	22.6 18.9 14.4	250	84		
434		B	2086 3039 3754	579 844 1043	19.2 16.1 12.9	200	82		
435		C	1959 2797 3315	544 777 921	16.1 13.8 11.2	160	78		
436			3170 4736.5 5652	880.6 1315.7 1570	47 39 30	630	88	8	4000
437		A	2980 4420 5292	827.8 1230 1470	40.8 34.1 26	560	86		
438		B	2800 4080 4896	777.8 1133 1360	34.6 29.1 23.2	450	84		
439		C	2630 3755 4450	730.6 1043 1236	29 24.8 20.2	355	80		

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No.	Pump Type		Capacity		Head	Speed (r/min)	Motor Power	Eff.	(NPSH) _r	Weight
			(m³/h)	(L/s)	(m)		(kw)	(%)	(m)	(kg)
440	600-630		1788 2765 3456	497 768 960	22.1 18.3 14.0	730	200	85	4.6	4000
441		A	1676 2564 3248	466 712 902	19.3 16.1 12.2		160	83		
442		B	1583 2363 2972	440 656 826	16.6 13.9 11.1		132	81		
443		C	1490 2196 2682	414 610 745	13.6 11.9 10.0		110	78		
444			2400 3712.5 4640	667 1031 1288.9	39.8 33 25.2	980	450	87	6.8	4000
445		A	2250 3442.5 4122	625 956 1145	34.8 29 24		355	85		
446		B	2125 3172.5 3816	590 881 1060	30 25 22		315	83		
447		C	2000 2947.5 3600	555.6 818.8 1000	24.5 21.4 18		250	81		
448	600-720 (1)		2171 3449 4507	603 958 1252	38.2 32.4 24.1	730	400	87	4.6	4900
449		A	2041 3218 4231	567 894 1175	33.3 27.7 20.0		355	85		
450		B	1933 3017 3888	537 838 1080	29.1 23.9 17.3		280	83		
451		C	1806 2795 3486	502 776 968	24.3 19.5 14.9		220	81		
452			3240 4630 5292	900 1286 1470	64 58.4 52	980	1000	89	6.5	4900
453		A	3060 4320 5040	850 1200 1400	54 50 42		800	87		
454		B	2880 4050 4860	800 1125 1350	47 43 36		710	85		
455		C	2628 3752 4500	730 1042 1250	38 35.2 29		500	83		
456	600-720		1944 2673 3464	540 742 962	34.3 29.8 21.6	730	315	86	4	4900
457		A	1825 2467 3248	507 685 902	29.0 25.4 18.2		250	84		
458		B	1724 2313 2980	479 642 828	25.6 22.5 17.1		200	82		
459		C	1602 2162 2771	445 601 770	22.1 19.5 9.7		185	80		
460			2610 3588 4320	725 994 1200	55 53.7 49		800	88	5.2	4900
461		A	2450 3312 3960	680.6 920 1100	48 45.8 42		630	86		
462		B	2315 3105 3744	643.1 862.5 1040	42 40.5 38		500	84		
463		C	2150 2902.5 3792	597 806 978	37 35.1 31		400	82		

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No.	Pump Type	Capacity		Head	Speed	Motor Power	Eff.	(NPSH)r	Weight
		(m³/h)	(L/s)	(m)	(r/min)	(kw)	(%)	(m)	(kg)
464	600-860 (1)		2793 4125 5147	776 1146 1430	48.6 48.6 38.8	710	87	5.2	5300
465		A	2626 3806 4834	729 1057 1343	50.5 42.7 32.2	630	85		
466		B	2458 3486 4283	683 968 1190	43.3 36.3 29.4	500	83		
467		C	2235 3244 3762	621 901 1045	36.1 31.1 25.5	400	81		
468			3750 5538 6910	763.9 1538.3 1919.4	95 87.5 73	1800	89	8.5	5300
469		A	3525 5109 6490	949.2 1419.2 1803	85 77 66	1600	87		
470		B	3300 4680 5750	916.7 1300 1597	72 65.5 58	1250	85		
471		C	3000 4355 5050	833.3 1209 1403	61 56 52	1000	83		
472	600-860		1944 2673 3464	540 742 962	42.9 36.7 28.1	450	86	3.9	5300
473		A	1825 2467 3248	507 685 902	38.3 32.3 23.3	355	84		
474		B	1724 2313 2980	479 642 828	33.4 27.9 20.5	315	82		
475		C	1602 2162 2771	445 601 770	28.9 23.5 17.9	250	78		
476			2950 4356 5220	819.4 1210 1450	71.5 66.2 60	1120	88	5.9	5300
477		A	2800 4100 4860	777.8 1138.9 1350	65 58.2 53	900	86		
478		B	2650 3818.8 4500	736 1060.8 1250	56 50.2 45	710	84		
479		C	2490 3482 4140	691.7 967.3 1150	48 42.4 38	560	80		
480	600-900		4000 5500 6200	1111.1 1527.8 1722.2	128 120 111	2240	88	8	5600
481		A	3600 5000 5600	1000.0 1388.9 1555.6	117.5 110 102.5	2000	87		
482		B	3400 4500 5200	944.4 1250.0 1444.4	107 100 92	1600	86		
483		C	2650 4200 5000	736.1 1166.7 1388.9	99 90 80	1400	85		

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No.	Pump Type		Capacity		Head	Speed (r/min)	Motor Power	Eff.	(NPSH) _r	Weight
			(m³/h)	(L/s)	(m)		(kw)	(%)	(m)	(kg)
484	700-580 (1)		3177 4892 6034	882 1359 1676	21.0 16.5 12.5	730	315	85	6.3	5400
485		A	3114 4709 5840	865 1308 1622	19.1 15.4 11.8		280	83		
486		B	2957 4505 5549	821 1251 1542	17.4 14.4 11.6		250	81		
487		C	2808 4391 5214	780 1220 1448	16.0 13.3 11.1		220	79		
488			4265 6568 8100	1185 1824.4 2250	37.8 29.8 22	980	710	87	8.8	5400
489		A	4180 6322 7840	1161 1756 2177.8	34.4 27.8 21		630	85		
490		B	3970 6048 7450	1103 1680 2069	31.3 25.9 20		560	83		
491		C	3770 5895 7000	1047.2 1637.5 1944	28.8 24 19		500	81		
492	700-580		2376 3701 4827	660 1028 1341	19.0 13.0 6.0	730	185	85	5.3	5400
493		A	2257 3538 4581	627 983 1273	17.3 12.0 6.0		160	83		
494		B	2153 3398 4350	598 944 1208	15.5 11.0 5.9		132	81		
495		C	2045 3244 4134	568 901 1148	13.5 9.9 5.7		132	79		
496			3960 4968 5958	1100 1380 1655	27 23.5 17	980	400	87	8	5400
497		A	3312 4749 5688	920 1319 1580	26 21.6 15.5		355	85		
498		B	3186 4562 5472	885 1267 1520	23 19.8 14		315	83		
499		C	3042 4355 5220	845 1209.7 1450	21.5 17.9 12		315	81		
500	700-700 (1)		2719 4854 6309	755 1348 1753	32.5 24.1 15.6	730	450	82	6	6700
501		A	2607 4676 5996	724 1299 1666	30.2 22.3 14.5		400	81		
502		B	2503 4448 5631	695 1235 1564	28.0 20.4 14.0		355	80		
503		C	2402 4277 5311	667 1188 1475	25.0 17.6 12.7		315	79		
504			4212 6012 7200	1170 1670 2000	57 45 32	980	1120	83	8.8	6700
505		A	4032 5760 6840	1120 1600 1900	52 41.5 31		1000	82		
506		B	3852 5490 6408	1070 1525 1780	47 38 29		900	81		
507		C	3672 5220 5868	1020 1450 1630	42 34.5 28		710	80		

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No.	Pump Type	Capacity		Head (m)	Speed (r/min)	Motor Power (kw)	Eff. (%)	(NPSH)r (m)	Weight (kg)	
		(m³/h)	(L/s)							
508	700-700		2589 4186 5311	719 1163 1475	28.3 21.8 15.4	730	355	84	5.5	6700
509		A	2458 3996 4879	683 1110 1355	25.1 19.3 14.7		315	82		
510		B	2354 3727 4618	654 1035 1283	22.3 17.4 13.4		250	80		
511		C	2235 3450 4291	621 958 1192	19.7 15.1 11.8		220	78		
512			3475 5619 6462	965.3 1560.8 1795	51 39.2 32.5	980	900	86	8.5	6700
513		A	3300 5365 6174	916.7 1790 1715	45.2 34.8 28		800	84		
514		B	3160 5004 5760	877.8 1390 1600	40.2 31.4 25		630	82		
515		C	3000 4631.5 5328	833.3 1286.5 1480	35 27.2 21.2		500	80		
516	700-830 (1)		3486 5524 7337	968 1534 2038	51.6 44.2 32.2	730	900	87	6	6700
517		A	3296 5184 6838	916 1440 1899	45.4 37.6 26.6		710	85		
518		B	3129 4881 6272	869 1356 1742	39.3 32.2 23.7		630	83		
519		C	2942 4478 5602	817 1244 1556	32.7 26.4 20.0		450	81		
520			4680 6750 7596	1300 1875 2110	97 90 84	980	2240	89	8.8	6700
521		A	4626 6588 7272	1285 1830 2020	92 85 82		2240	87		
522		B	4536 6426 7092	1260 1785 1970	88 81 78		2000	85		
523		C	4392 6228 6912	1220 1730 1920	82 76 73		1800	83		
524	700-830		2581 4022 4931	717 1117 1370	40.0 33.3 25.5	590	500	86	5	6700
525		A	2436 3687 4395	677 1024 1221	35.2 29.9 23.4		400	84		
526		B	2287 3284 3918	635 912 1088	30.5 25.8 21.5		315	82		
527		C	2149 2904 3464	597 807 962	26.1 22.9 19.5		280	80		
528			4410 6300 7200	1225 1750 2000	70 60 52	730	1400	88	7.5	6700
529		A	4194 5994 6912	1165 1665 1920	63.5 53.8 45.5		1250	86		
530		B	4032 5760 6624	1120 1600 1840	58 48.5 42		1120	84		
531		C	3888 5526 6372	1080 1535 1770	54 45 39		1000	82		

■ ■ ASN, ASNV PUMP PERFORMANCE DATE

No.	Pump Type	Capacity		Head	Speed	Motor Power	Eff.	(NPSH)r	Weight
		(m³/h)	(L/s)	(m)	(r/min)	(kw)	(%)	(m)	(kg)
532	800-770 (1)		4744 7347 8890	1318 2041 2470	23.9 17.5 11.9	450	85	6.3	7800
533		A	4506 6968 8381	1252 1936 2328	21.9 15.9 10.6	400	83		
534		B	4280 6692 7961	1189 1859 2211	20.2 14.6 9.7	400	81		
535		C	4065 6353 7508	1129 1765 2086	18.4 12.9 8.8	315	79		
536			6300 8928 10224	1750 2480 2840	36.6 26.8 18.2	900	87	8	7800
537		A	6048 8622 9900	1680 2395 2750	33.6 24.3 17	800	85		
538		B	5796 8280 9522	1610 2300 2645	30.9 22.3 15.5	710	83		
539		C	5544 7860 9036	1540 2183.3 2510	27 19.8 14	630	81		
540	800-770		3900 5878 7419	1083 1633 2061	19.5 14.6 9.1	315	84	5.4	7800
541		A	3706 5630 7048	1029 1564 1958	18.2 13.5 8.2	280	82		
542		B	3520 5333 6660	978 1482 1850	16.4 12.1 7.4	250	80		
543		C	3342 5048 6223	928 1402 1729	14.9 10.8 6.9	220	78		
544			5112 7273 8352	1420 2020 2320	29 22.3 18	630	86	7.5	7800
545		A	4896 6966 7920	1360 1935 2200	26.5 20.6 16	560	84		
546		B	4644 6599 7560	1290 1833 2100	47 18.5 14.5	450	82		
547		C	4392 6246 7164	1220 1735 1990	21.5 16.5 13.0	400	80		

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No.	Pump Type	Capacity		Head	Speed	Motor Power	Eff.	(NPSH) _r	Weight
		(m ³ /h)	(L/s)	(m)	(r/min)	(kw)	(%)	(m)	(kg)
548	800-880 (1)		5152 7292 9392	1431 2026 2609	590	800	86	6	7300
549		A	4946 6998 9020	1374 1944 2505		710	84		
550		B	4700 6678 8567	1305 1855 2380		630	82		
551		C	4486 6372 8179	1246 1770 2272		560	78		
552		D	4259 6023 7775	1183 1673 2160		500	77		
553			6375 9022.5 10800	1770.8 2506 3000	730	1400	88	7.2	7300
554		A	6120 8658 10080	1700 2405 2800		1250	86		
555		B	5815 8262 9900	1615.3 2295 2750		1120	84		
556		C	5550 7884 9360	1541.7 2190 2600		1000	80		
557		D	5270 7452 8892	1463.9 2070 2470		900	80		
558	800-880S		4768 5738 6789	1325 1594 1886	590	800	85	5	7300
559		A	4284 5334 6385	1190 1482 1774		710	83		
560		B	4203 5213 6223	1167 1448 1729		630	81		
561			5900 7100 8400	1639 1972 2333	730	1400	87	6	7300
562		A	5300 6600 7900	1472 1833 2194		1250	85		
563		B	5200 6450 7700	1444 1792 2139		1120	83		

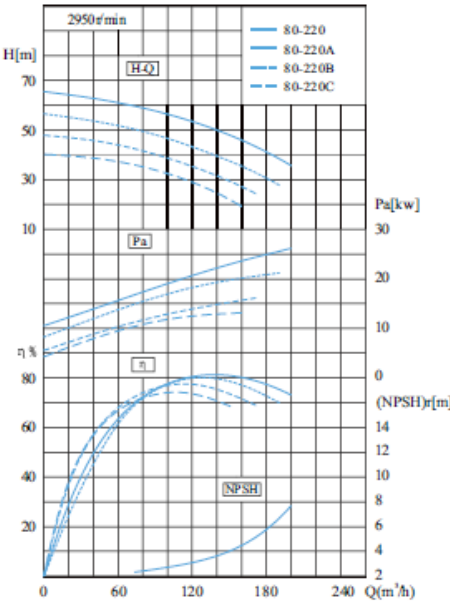
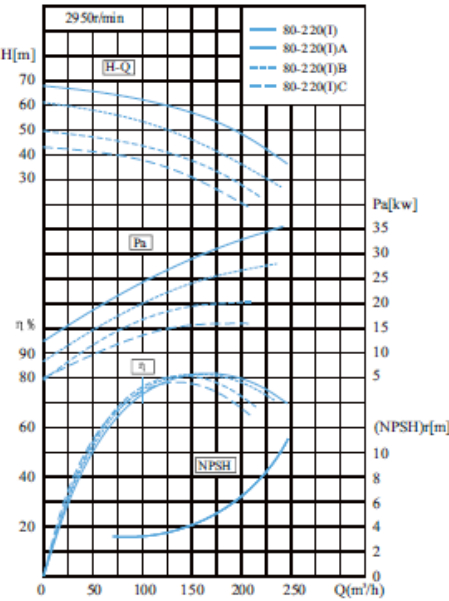
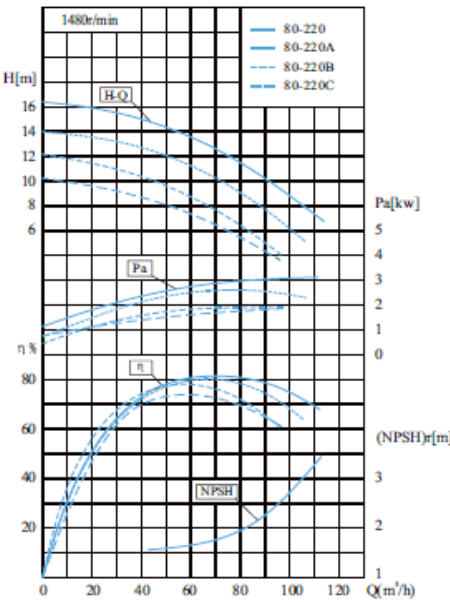
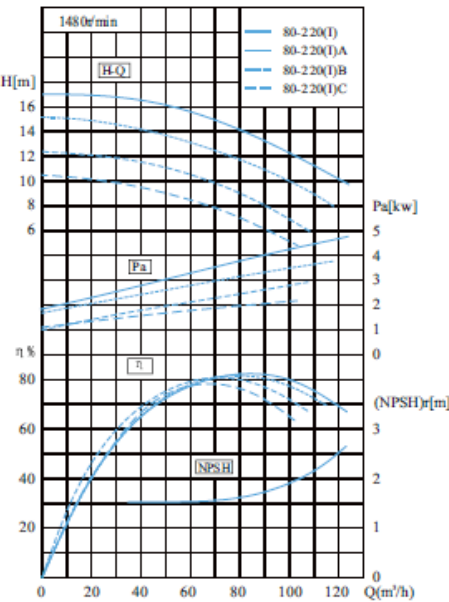
■ ■ ASN, ASNV PUMP PERFORMANCE DATE

No.	Pump Type		Capacity		Head	Speed	Motor Power	Eff.	(NPSH)r	Weight
			(m³/h)	(L/s)	(m)	(r/min)	(kw)	(%)	(m)	(kg)
564	800-880		3871 6025 7921	1075 1674 2200	33.6 28.1 20.4	590	630	85	5.3	7300
565		A	3718 5772 7476	1033 1603 2077	30.6 25.3 18.3		560	83		
566		B	3556 5470 7137	988 1519 1982	27.7 22.6 15.5		500	79		
567		C	3378 5192 6716	938 1442 1866	24.7 20.0 13.1		400	77		
568		D	3209 4874 6357	891 1354 1766	21.4 17.5 10.9		355	75		
569			5184 7455 9000	1440 2071 2500	48.5 43 38	730	1120	87	6	7300
570		A	4896 7142 8640	1360 1984 2400	43.5 38.8 34		1000	85		
571		B	4752 6768 8100	1320 1880 2250	38.5 34.6 31		900	83		
572		C	4500 6426 7740	1250 1785 2150	34 30.6 26		710	81		
573		D	4212 6030 7272	1170 1675 2020	30 26.8 22		630	79		
574	800-980 (1)		5334 7929 9424	1482 2202 2618	48.2 40.8 33.4	590	1120	87	6	8500
575		A	5120 7516 8963	1422 2088 2490	43.1 36.1 29.6		1000	85		
576		B	4914 7187 8405	1365 1996 2335	38.9 32.3 26.9		900	83		
577		C	4663 6890 7828	1295 1914 2174	35.1 28.9 25.3		800	81		
578			6840 9810 11660	1900 2725 3239	73.8 62.5 54	730	2000	89	7.5	8500
579		A	6552 9300 11090	1820 2583.3 3080.6	64 55.3 47		1800	87		
580		B	6228 8892 10400	1730 2470 2889	57 49.4 41.2		1600	85		
581		C	5976 8525 9685	1660 2368 2690	51 44.3 38.8		1400	83		

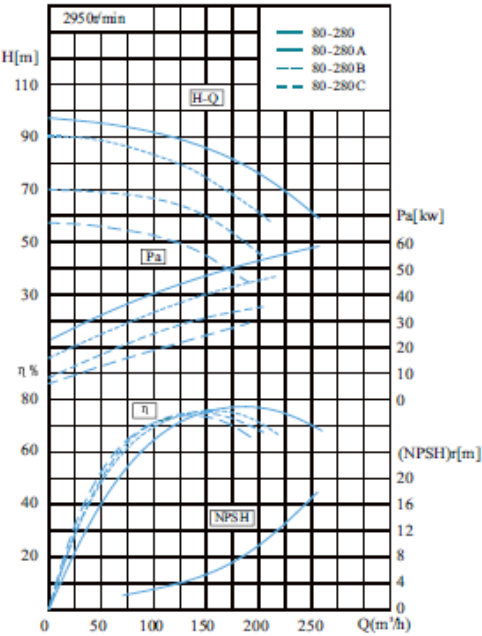
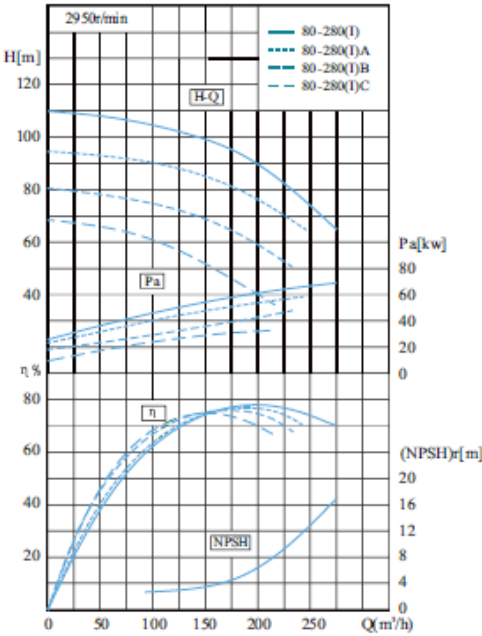
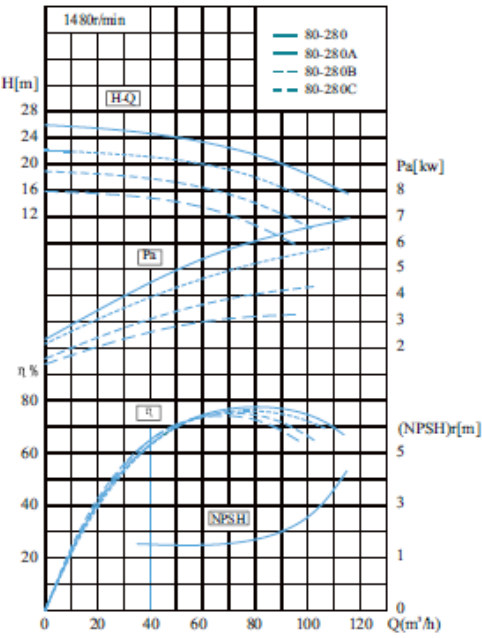
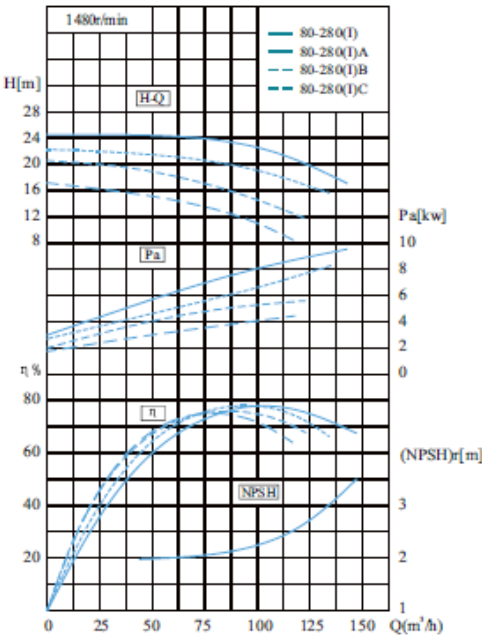
■ ■ ASN, ASNV PUMP PERFORMANCE DATE

No.	Pump Type	Capacity		Head	Speed	Motor Power	Eff.	(NPSH)r	Weight
		(m³/h)	(L/s)	(m)	(r/min)	(kw)	(%)	(m)	(kg)
582	800-980		4284 6479 8769	1190 1800 2436	40.4 34.1 23.5	800	87	5	8500
583		A	4142 6197 8292	1151 1722 2303	37.1 31.2 21.9	710	85		
584		B	3976 5848 7710	1105 1625 2142	33.7 31.5 19.9	710	83		
585		C	3815 5528 7128	1060 1536 1980	30.3 25.5 18.3	560	81		
586		D	3661 5179 6674	1017 1439 1854	26.9 22.9 16.3	450	79		
587			5616 8017 9648	1560 2227 2680	61.8 52.2 44	1400	89	6.3	8500
588		A	5400 7668 9216	1500 2130 2560	56.8 47.7 40	1250	87		
589		B	5076 7236 8712	1410 2010 2420	51.6 43.5 36	1250	85		
590		C	4720 6840 8280	1311 1900 2300	46.4 39 32	1000	83		
591		D	4530 6408 7740	1358.3 1780 2150	41.2 35 29	800	81		

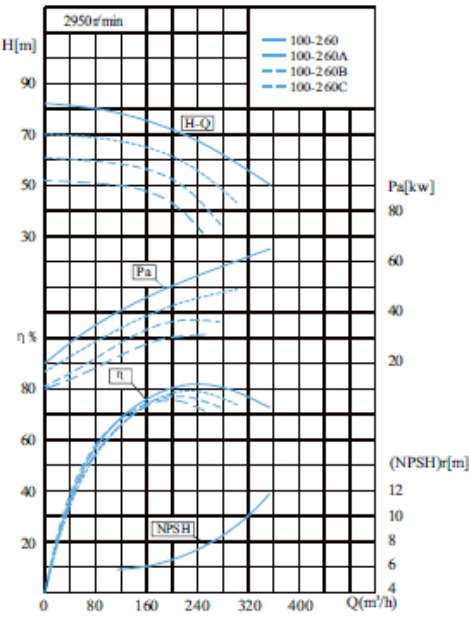
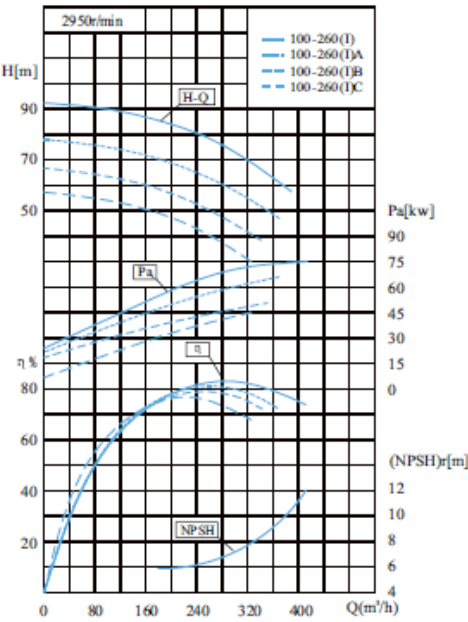
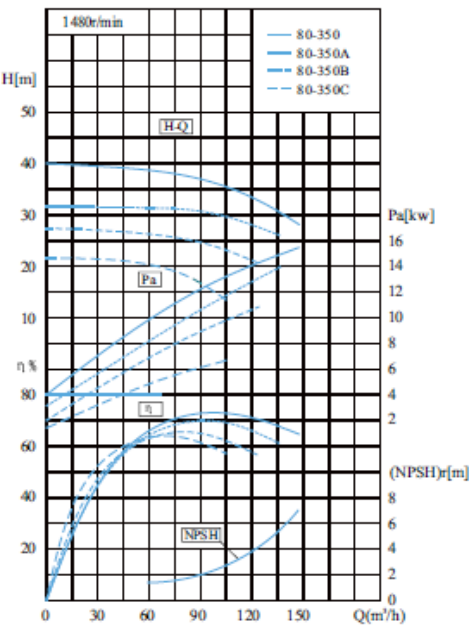
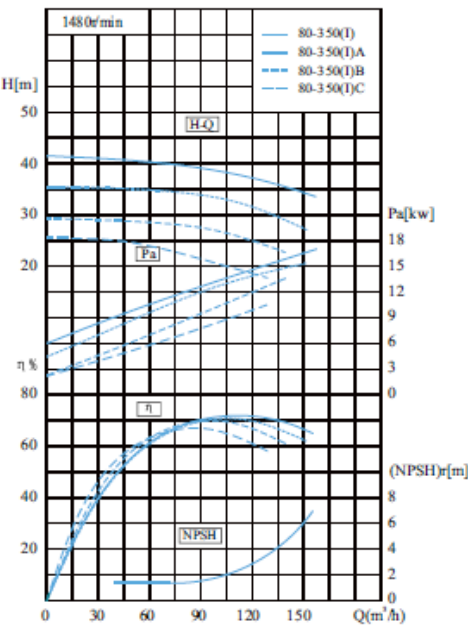
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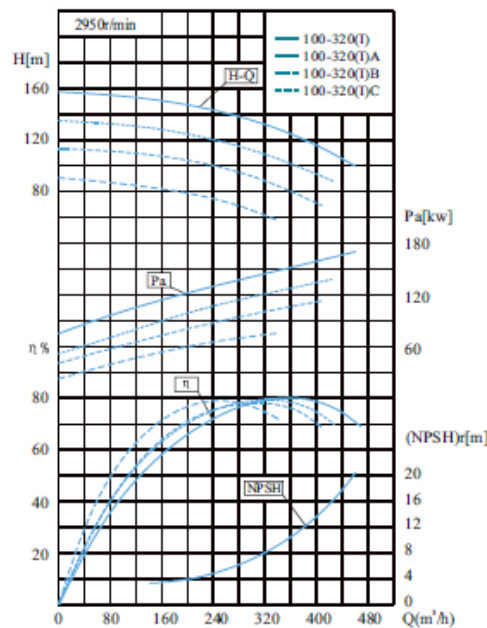
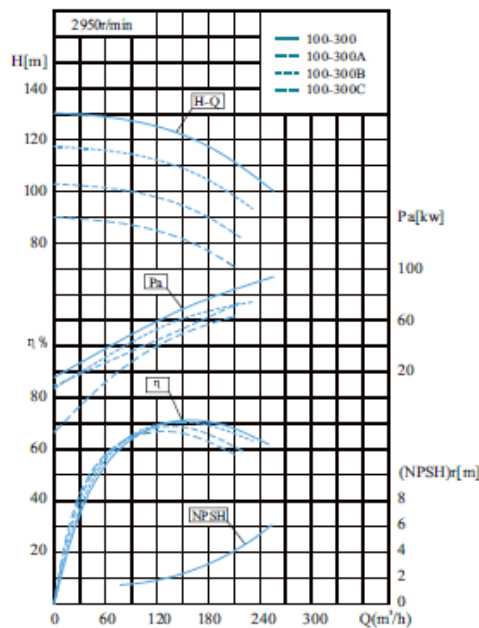
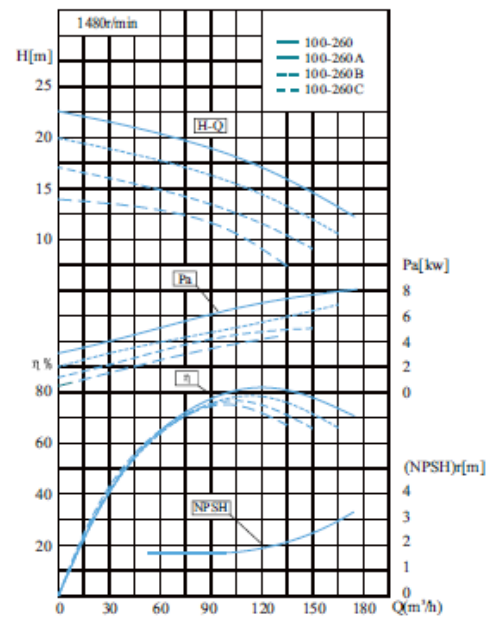
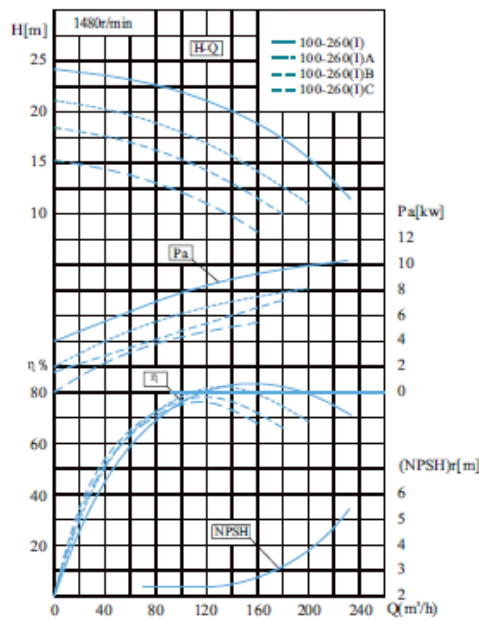
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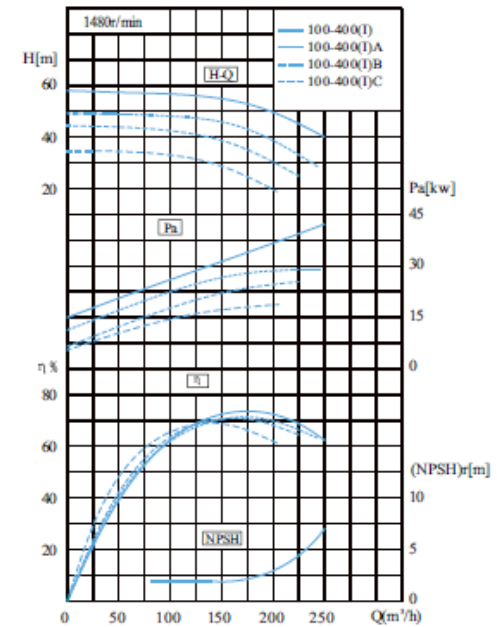
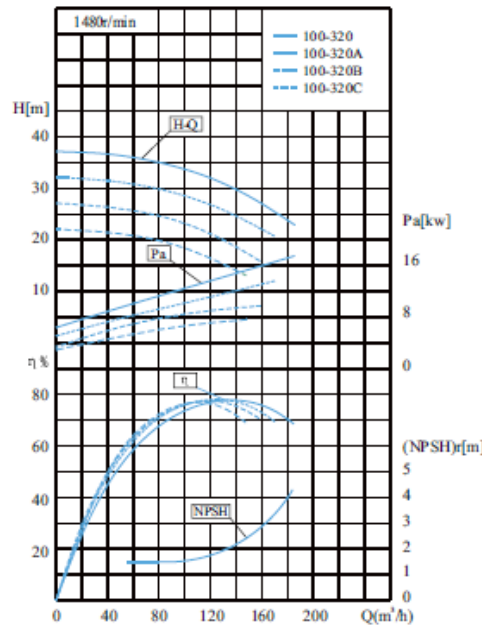
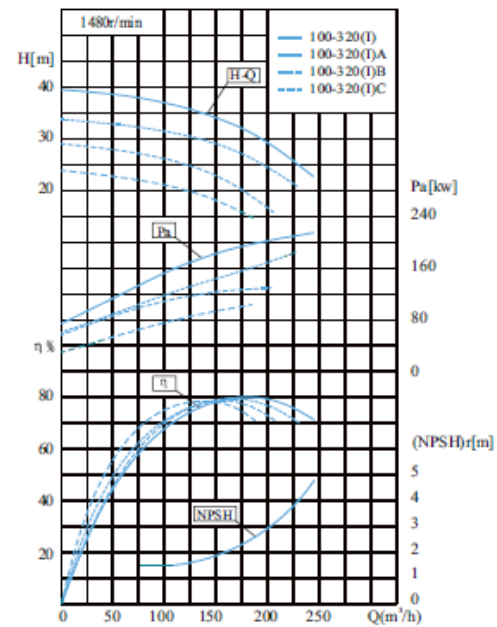
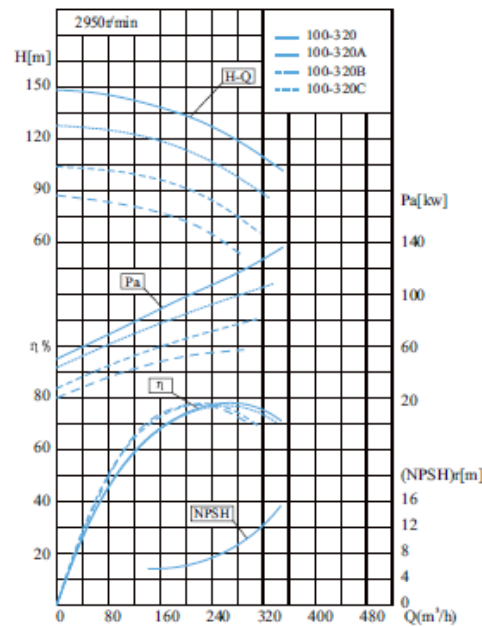
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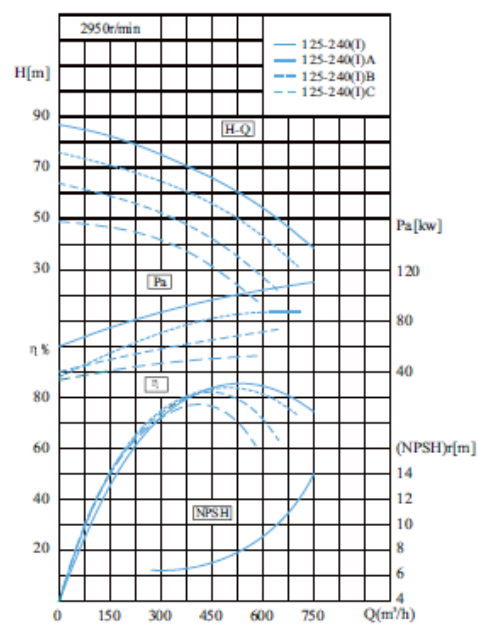
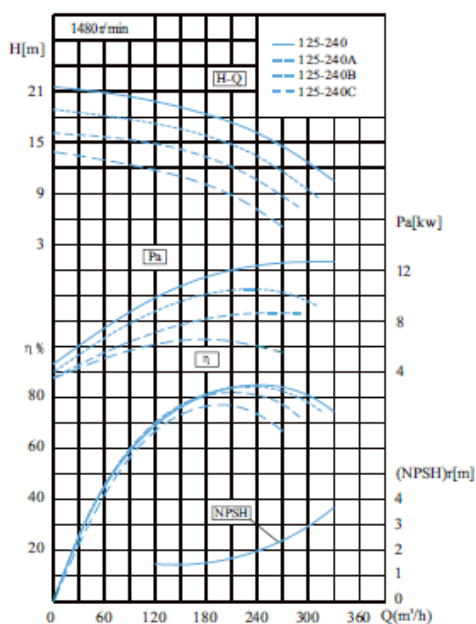
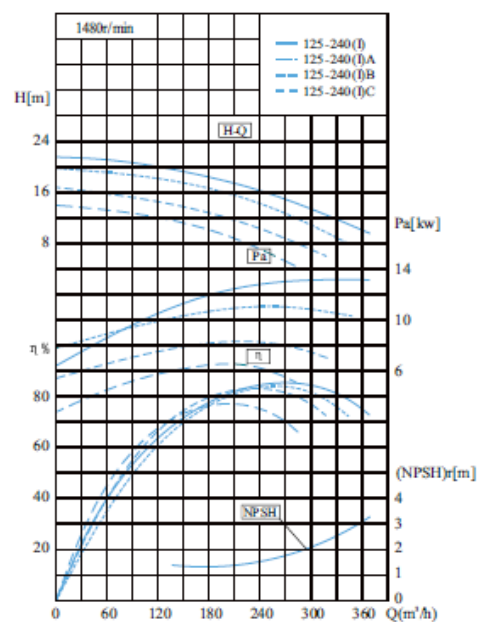
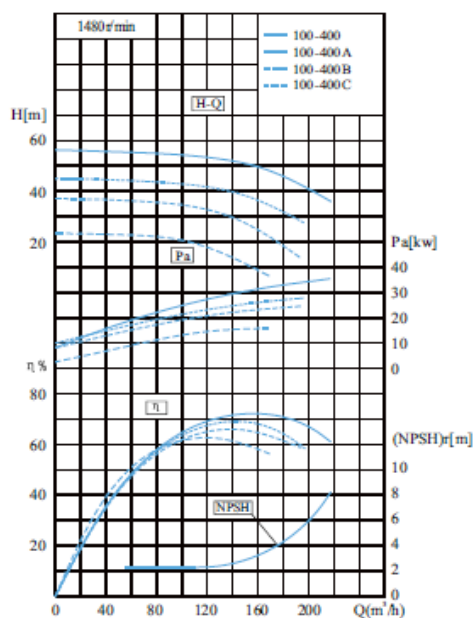
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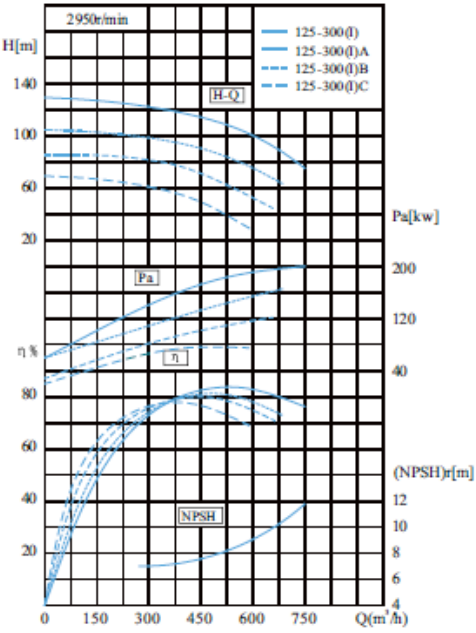
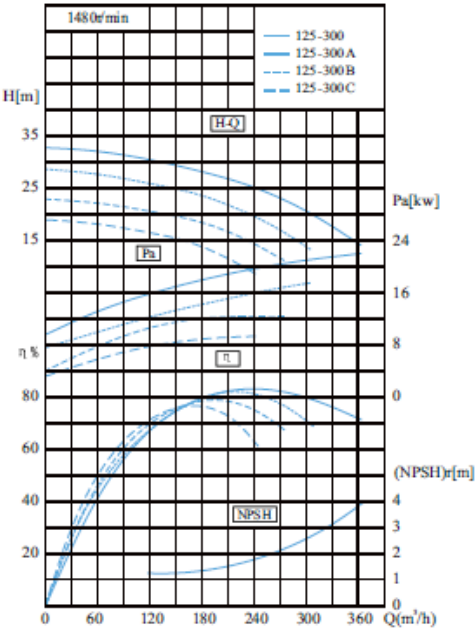
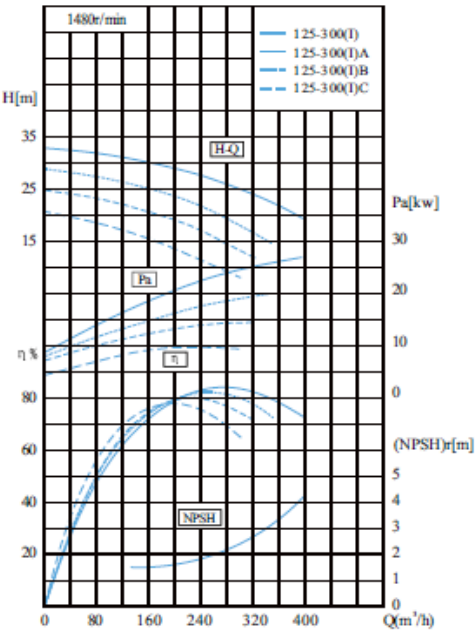
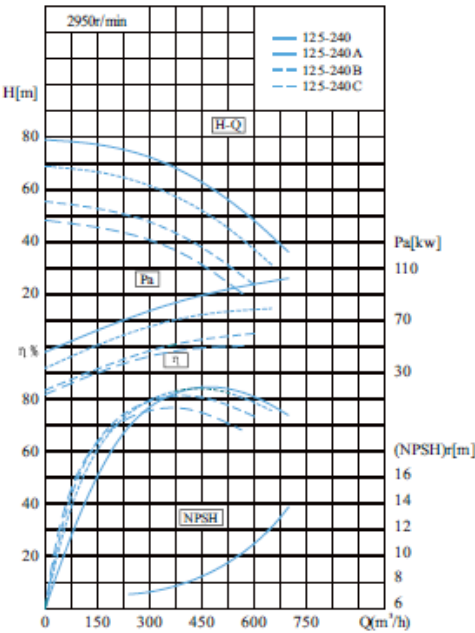
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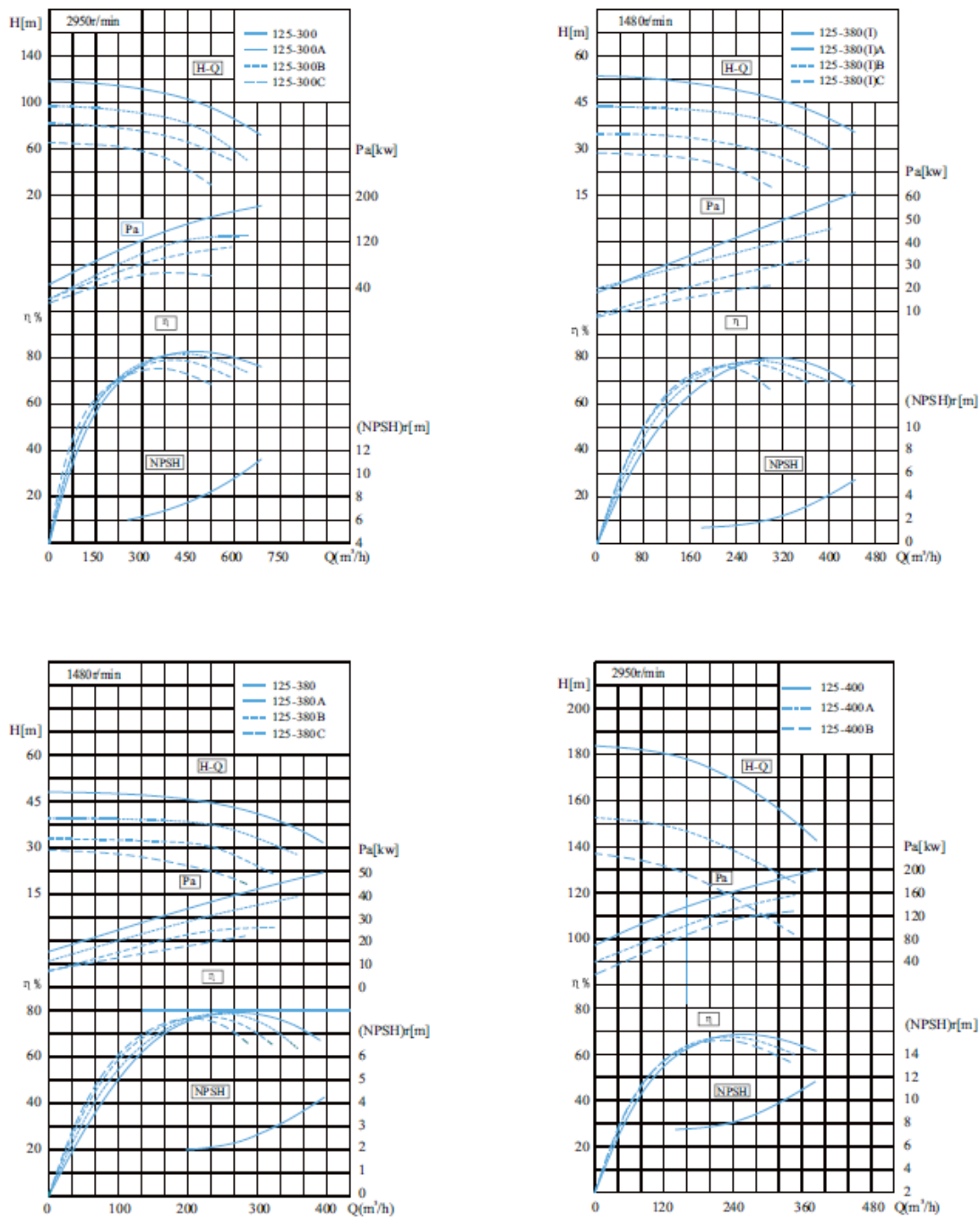
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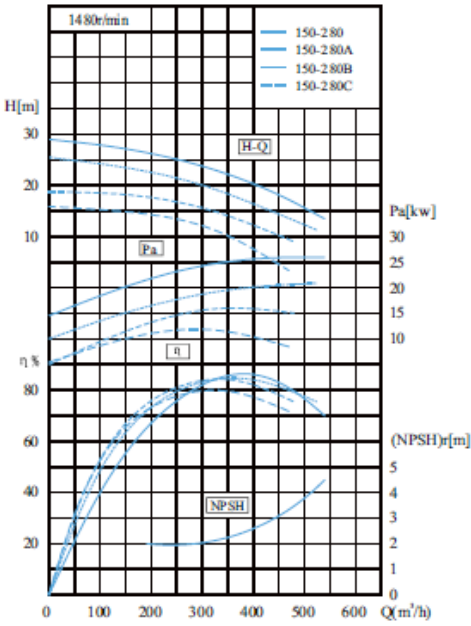
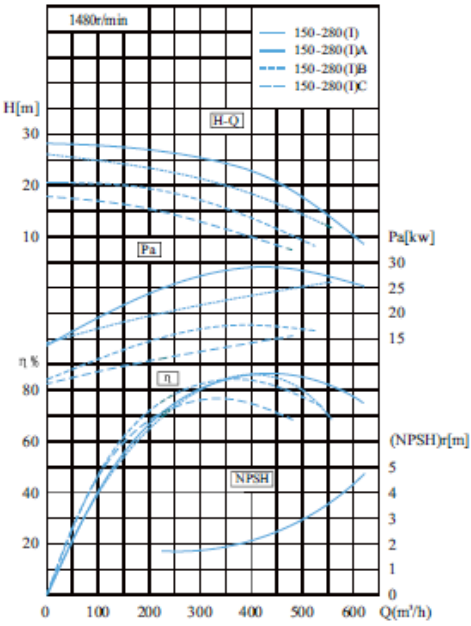
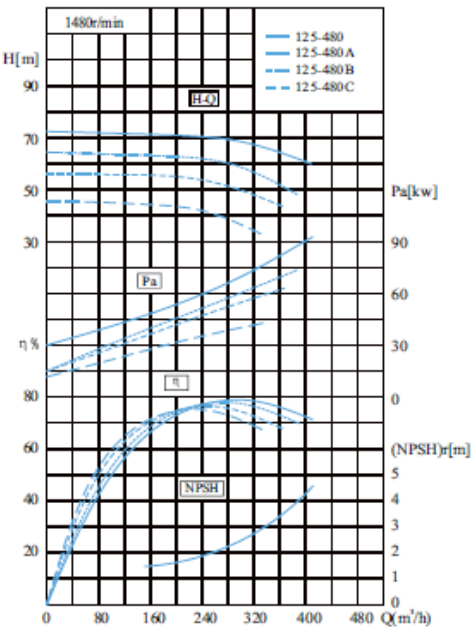
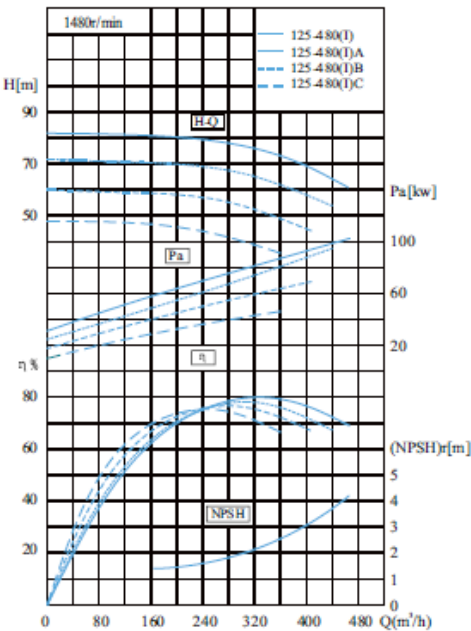
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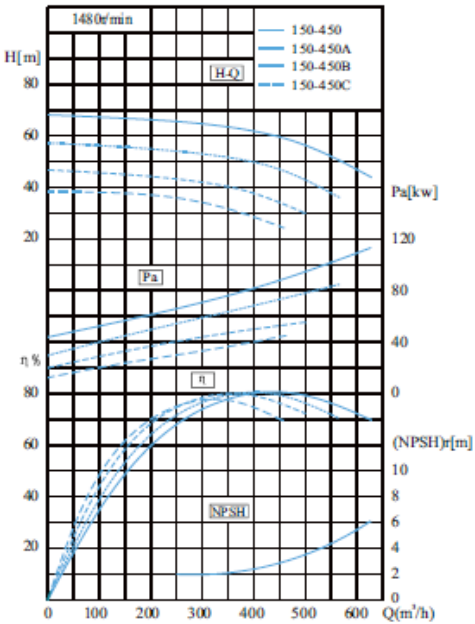
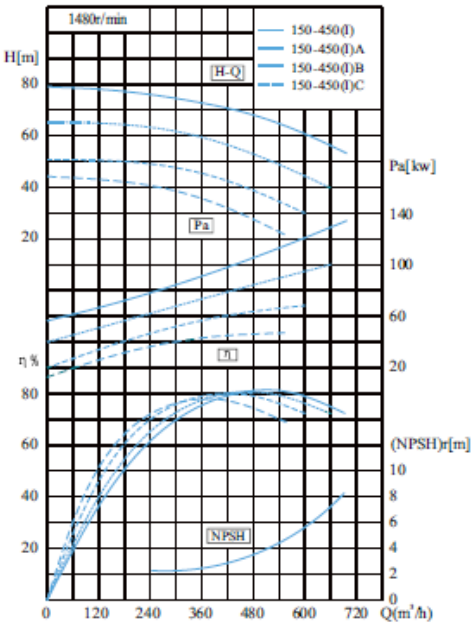
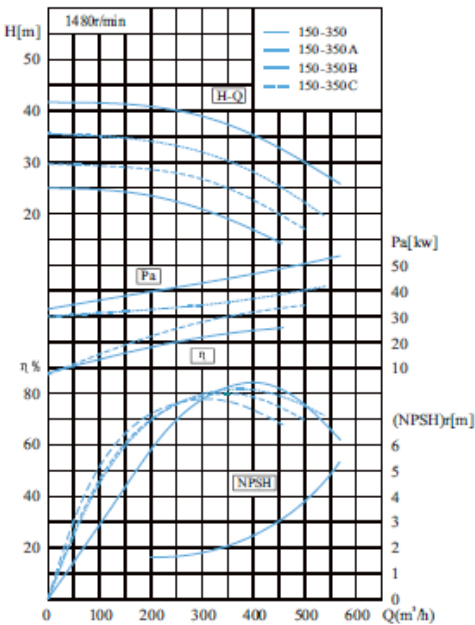
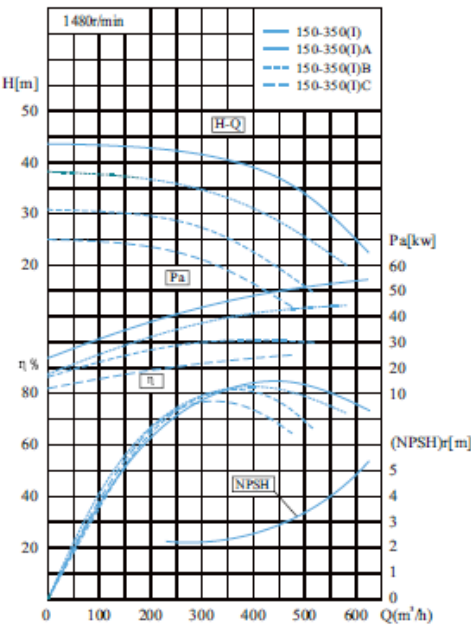
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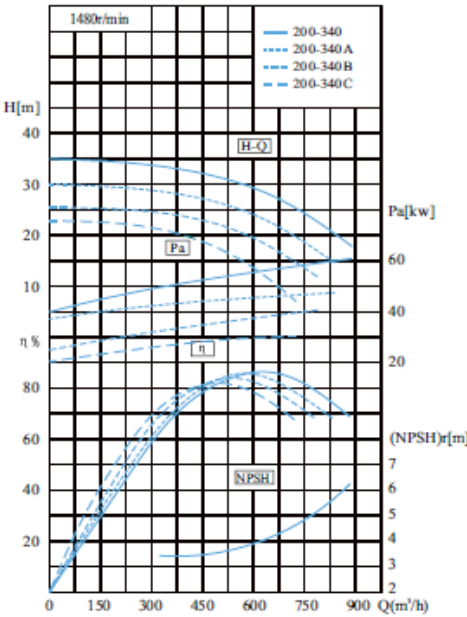
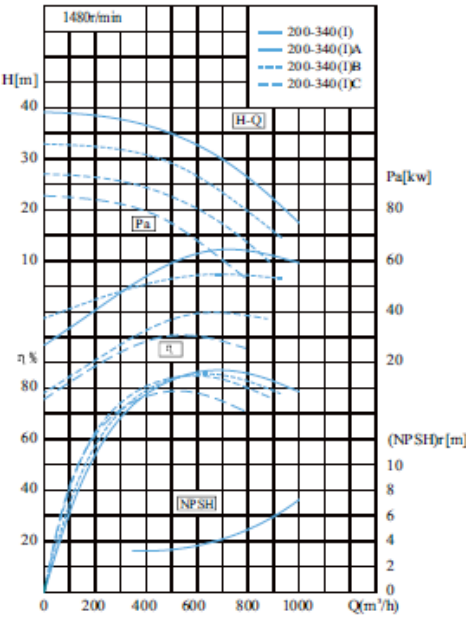
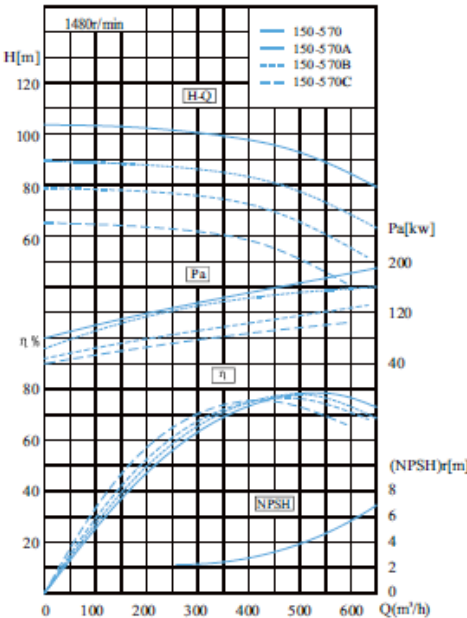
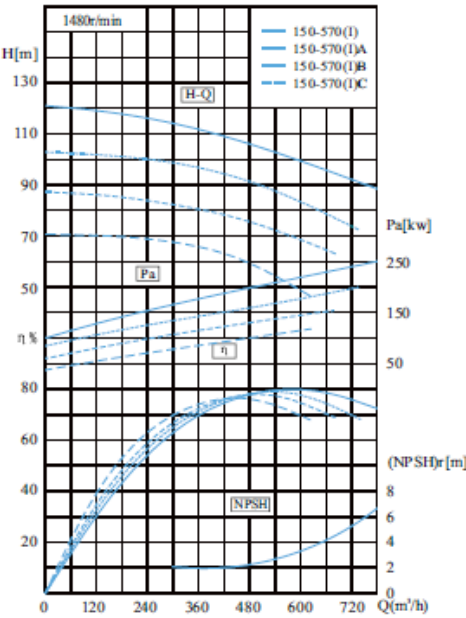
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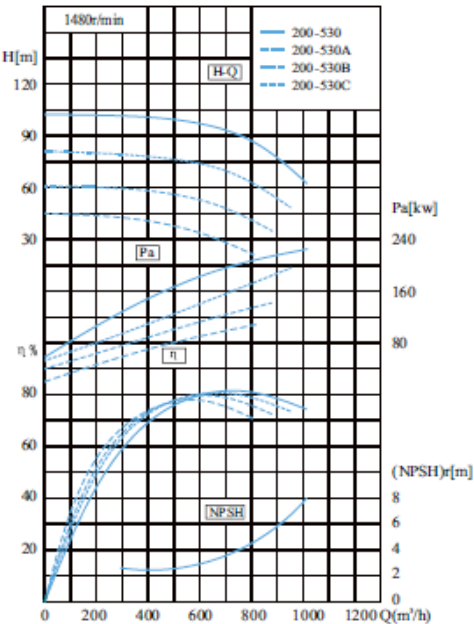
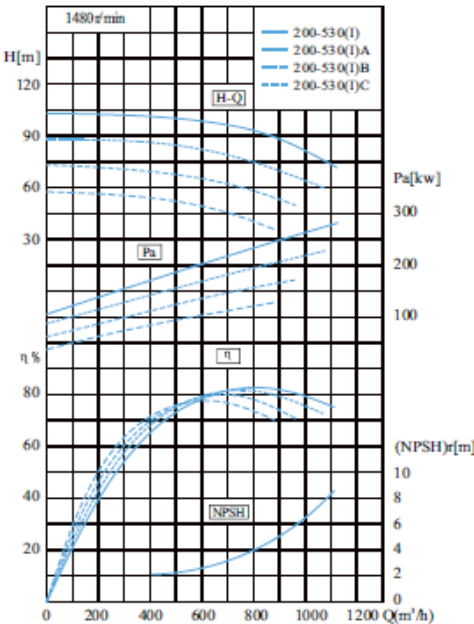
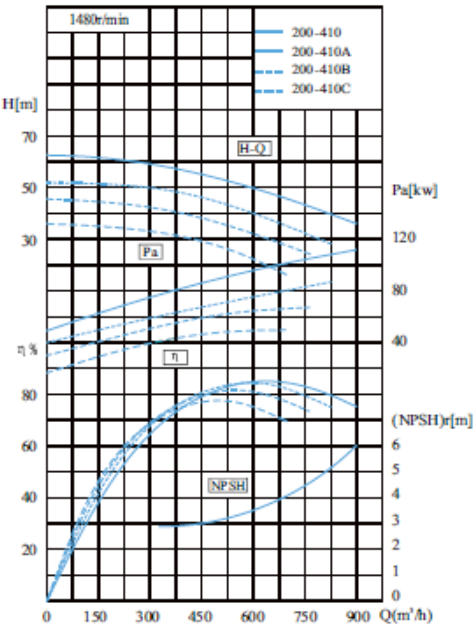
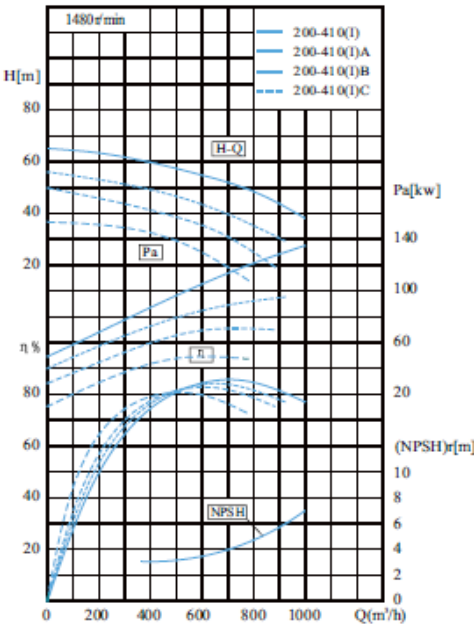
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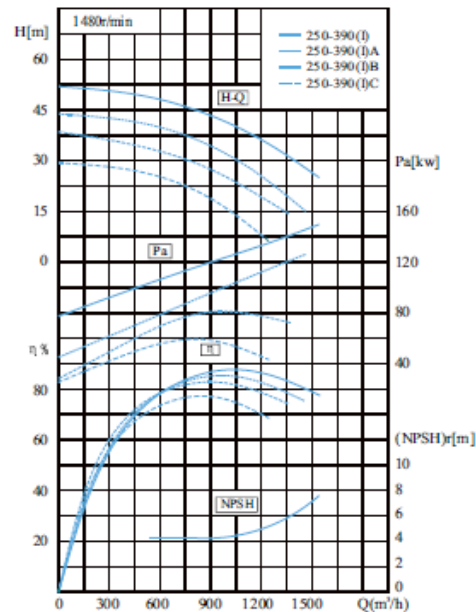
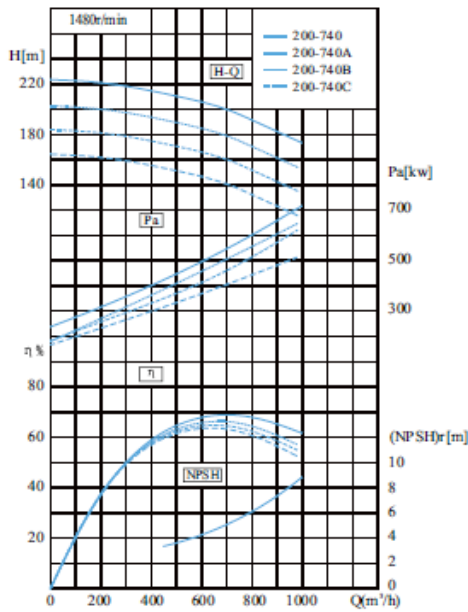
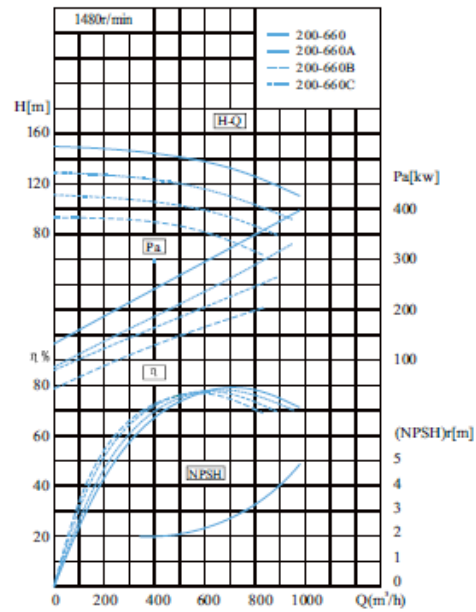
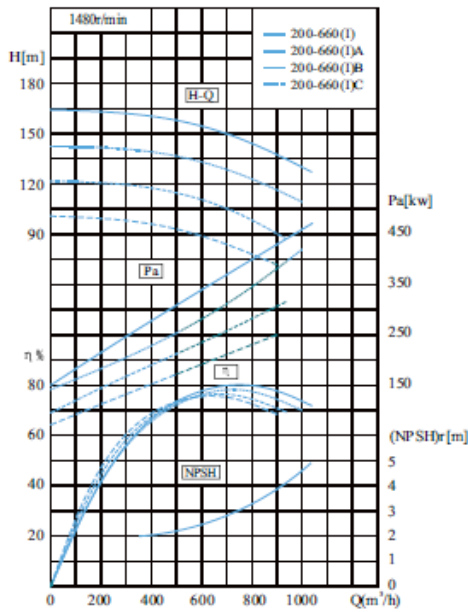
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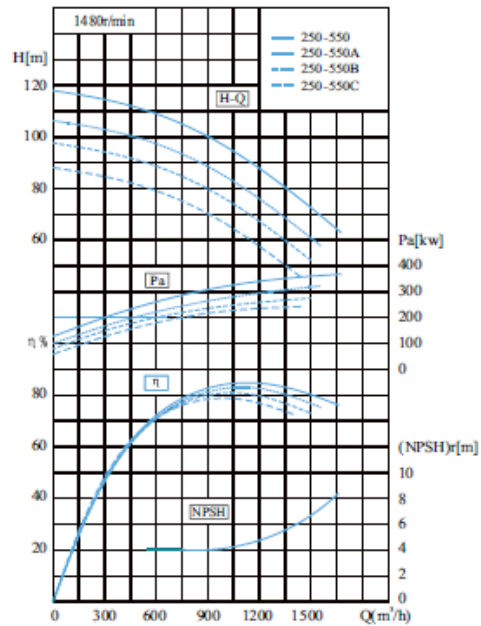
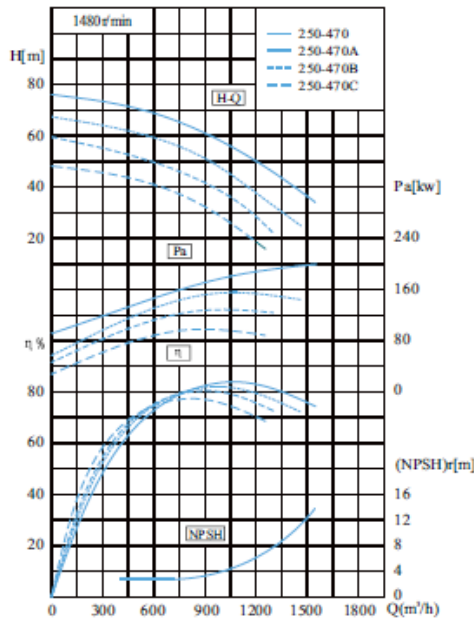
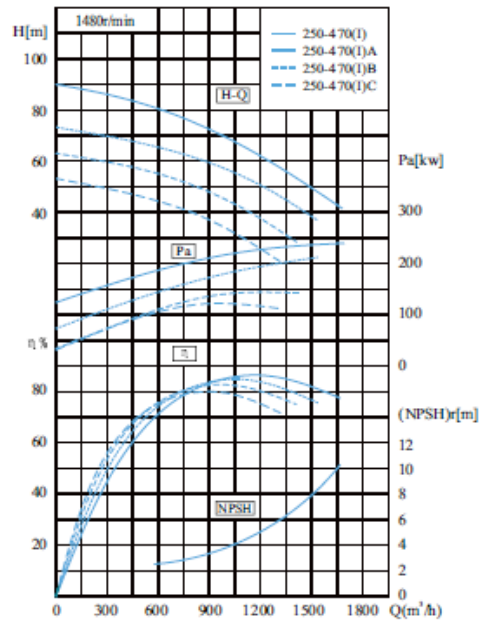
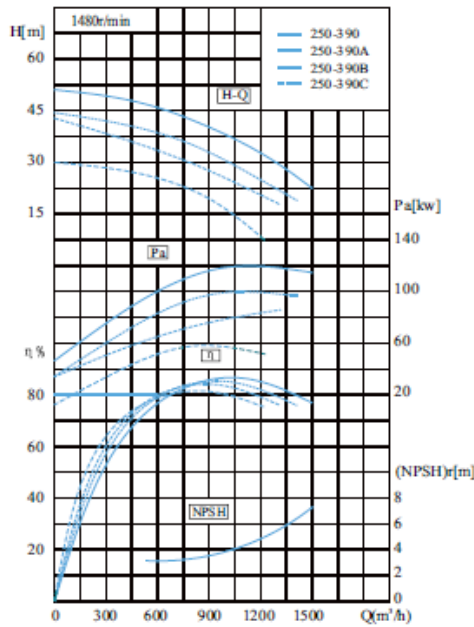
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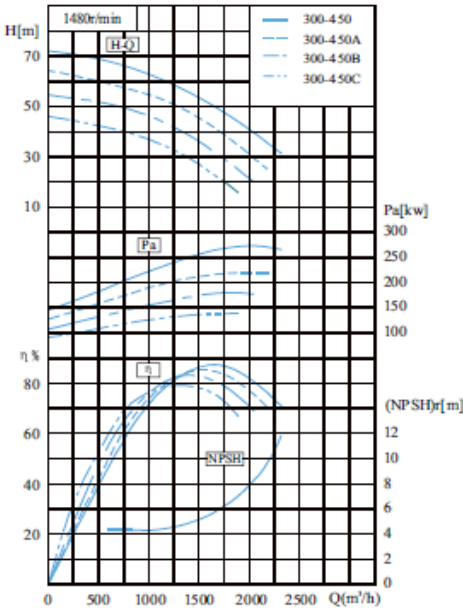
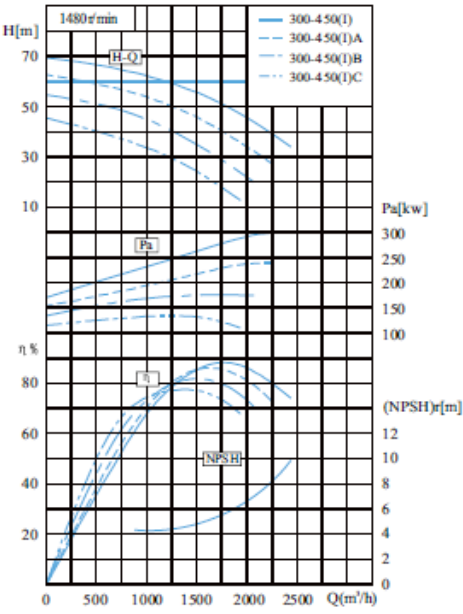
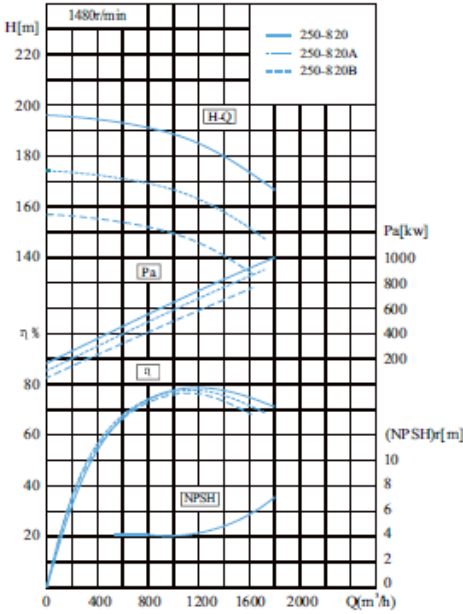
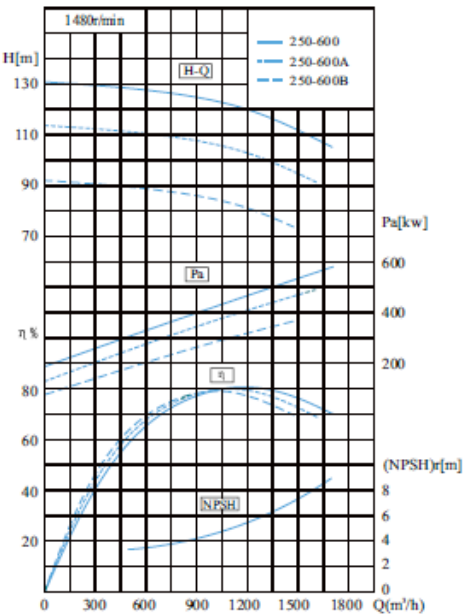
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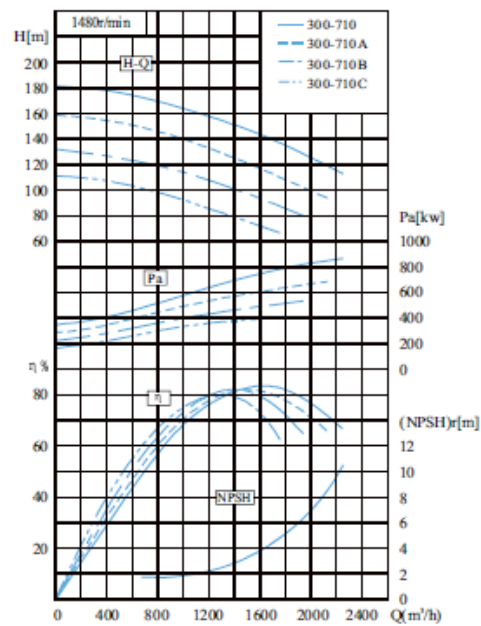
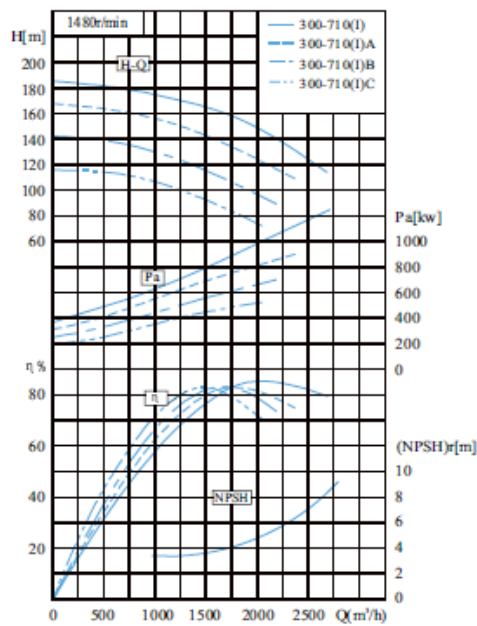
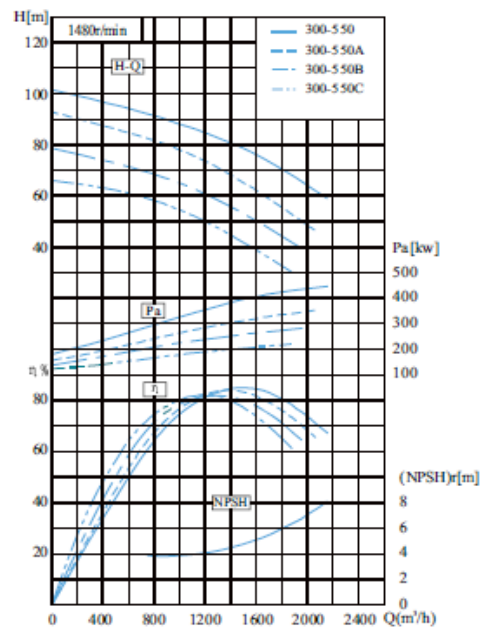
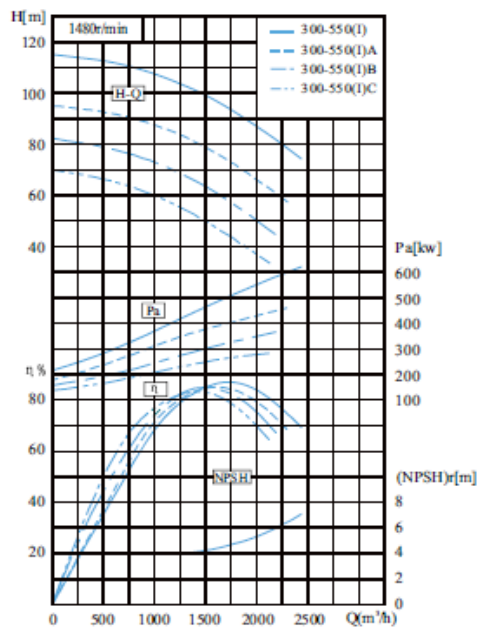
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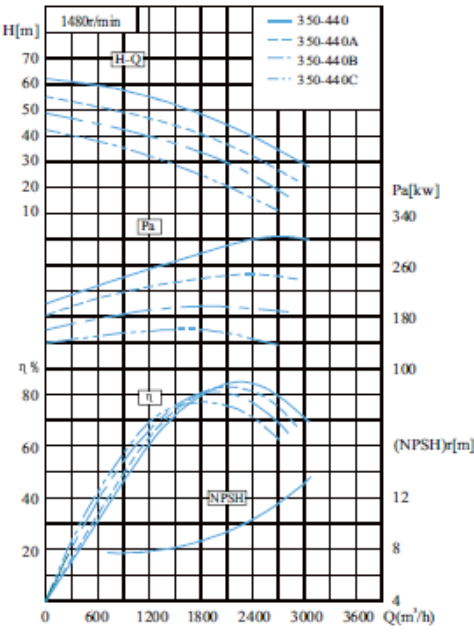
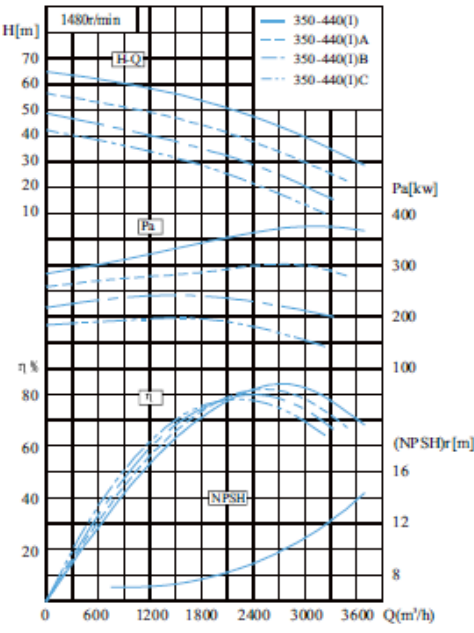
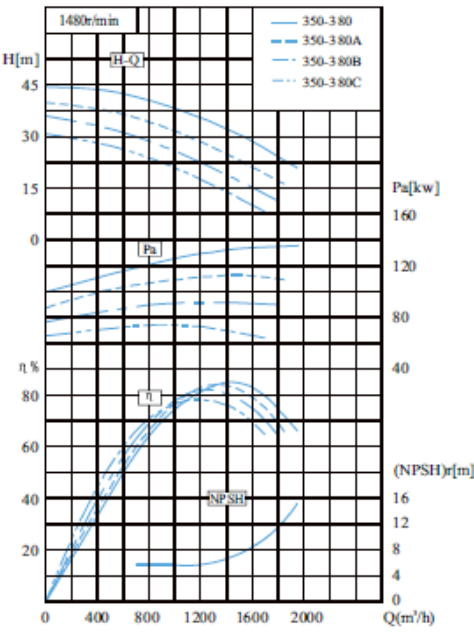
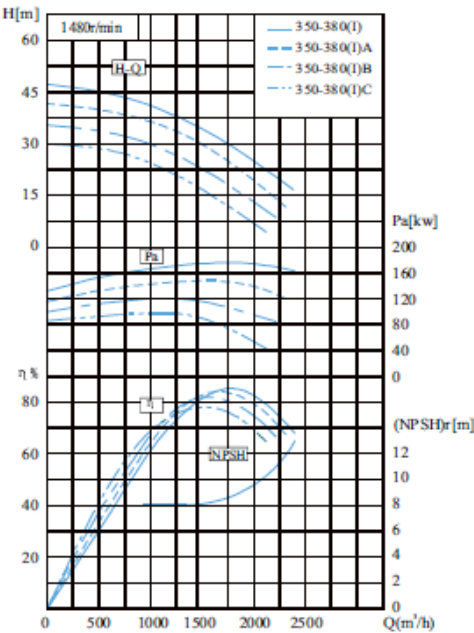
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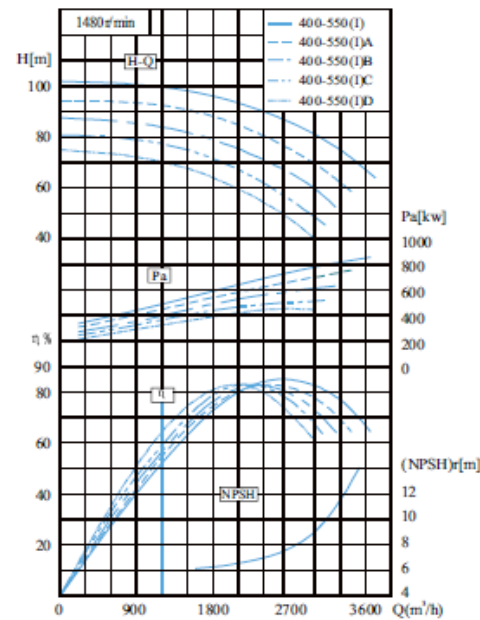
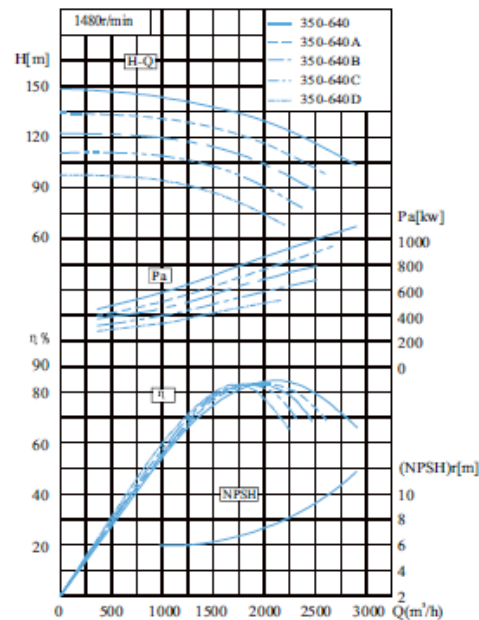
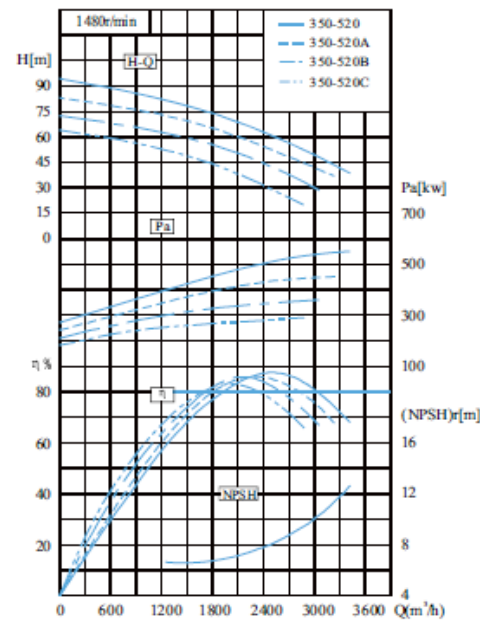
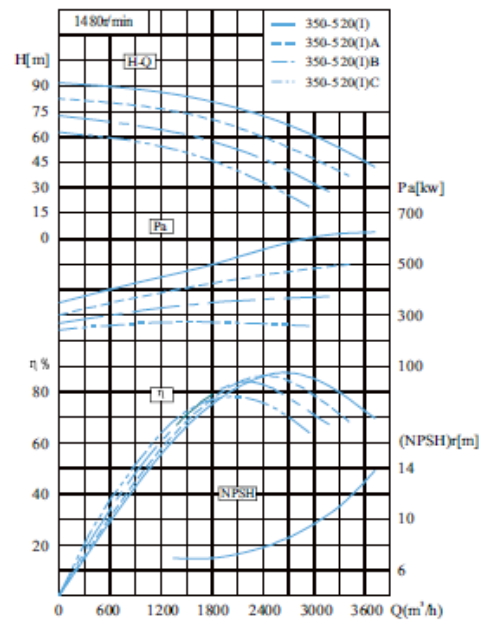
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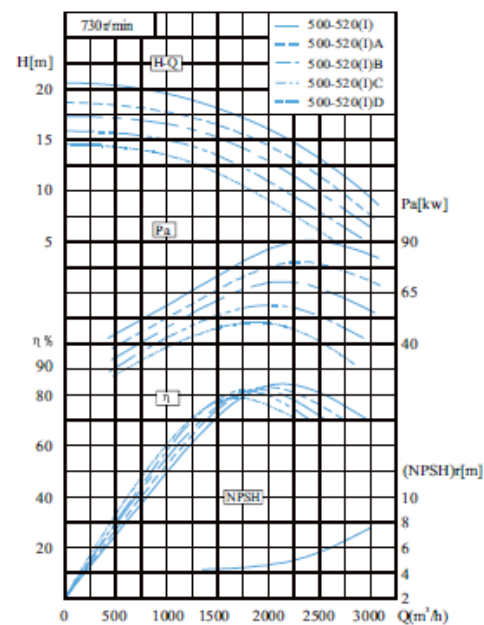
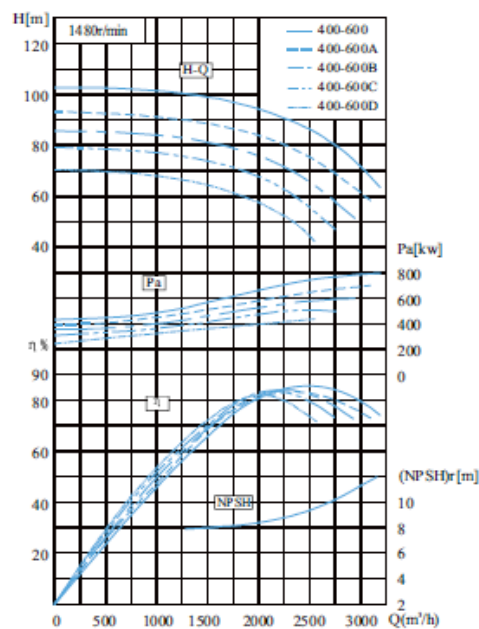
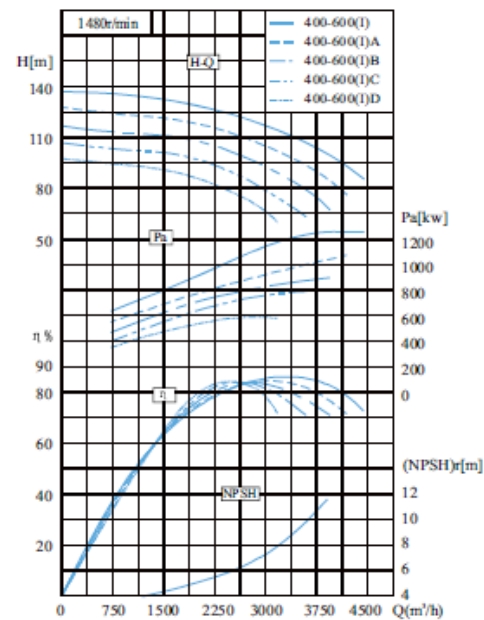
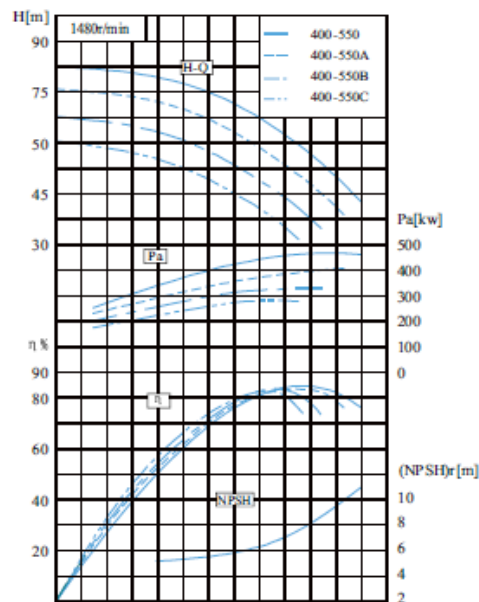
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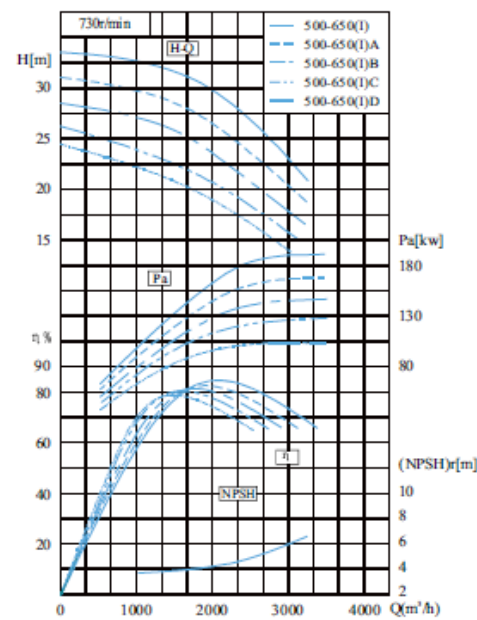
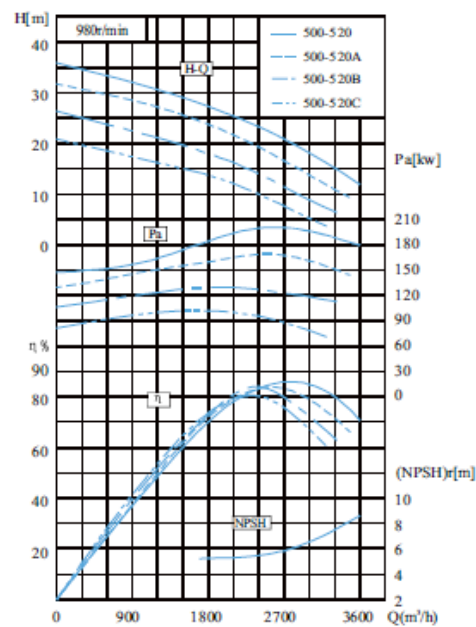
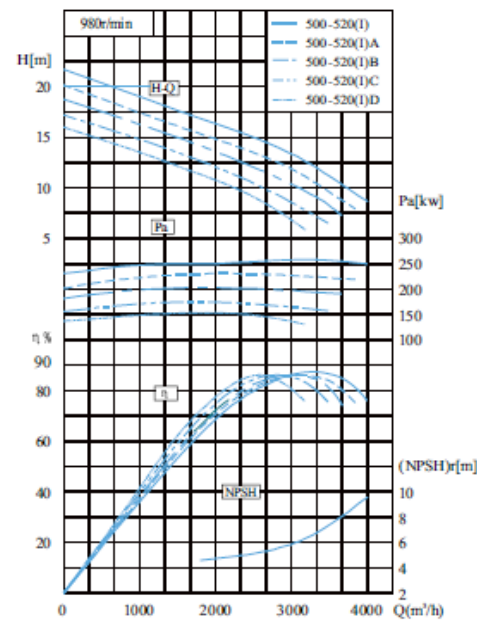
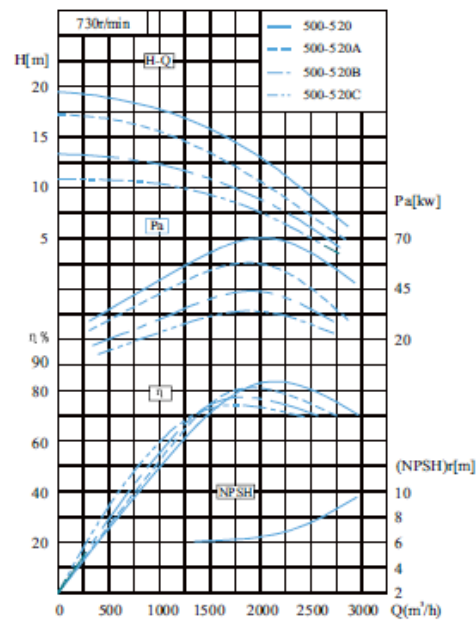
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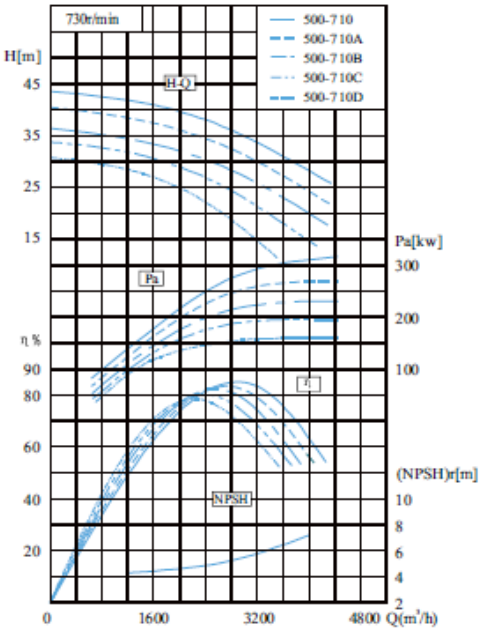
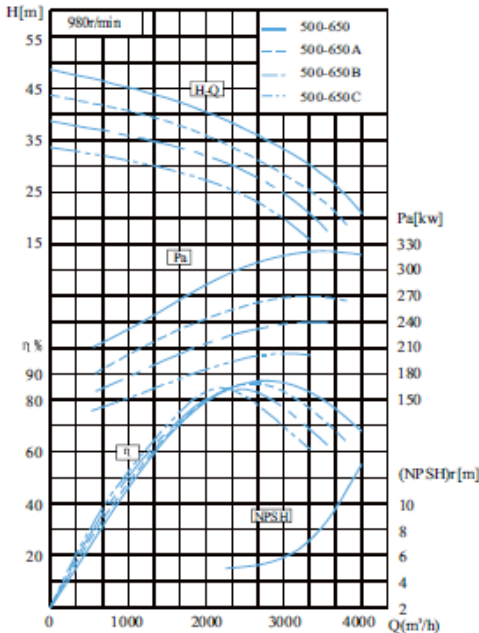
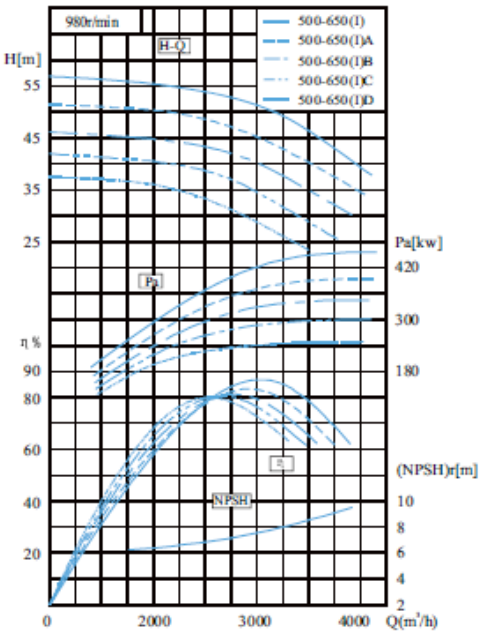
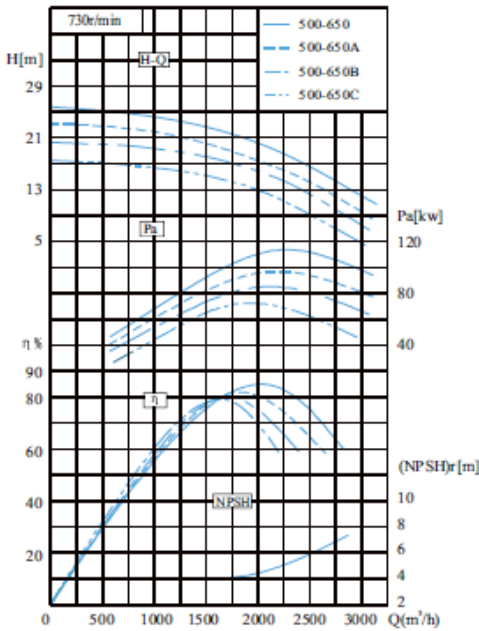
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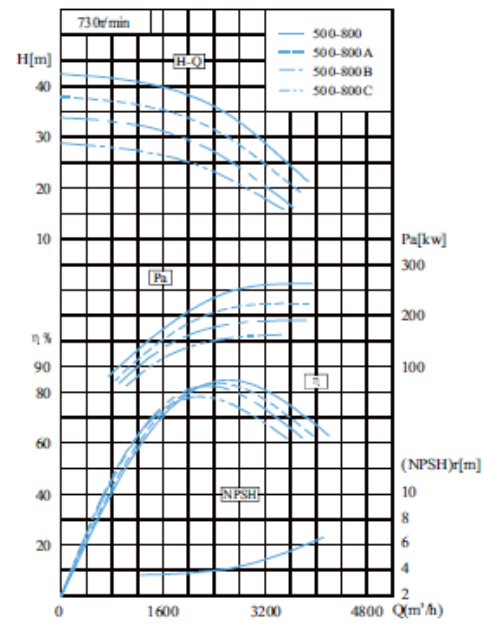
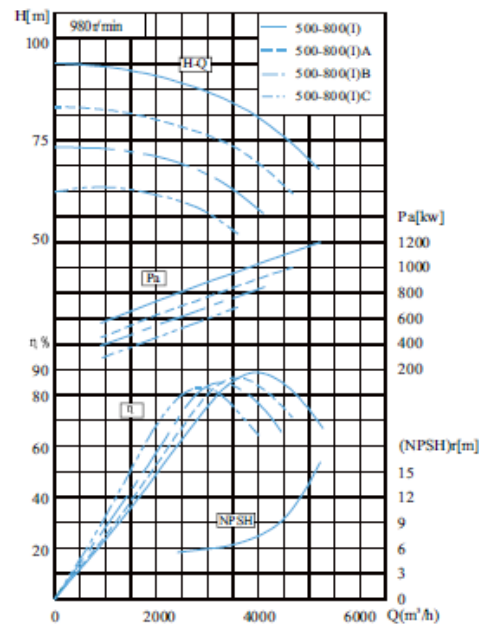
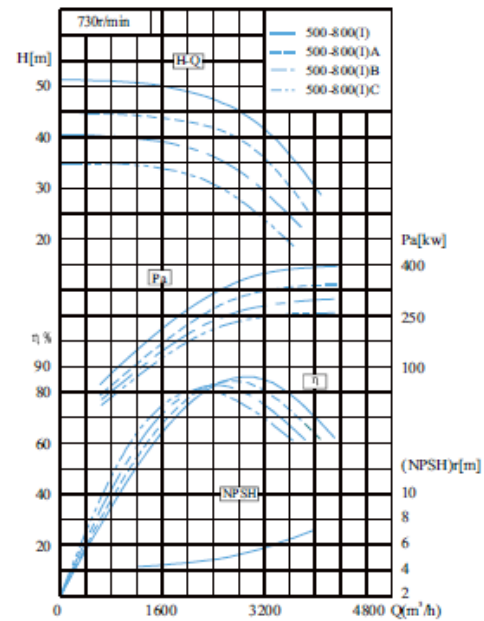
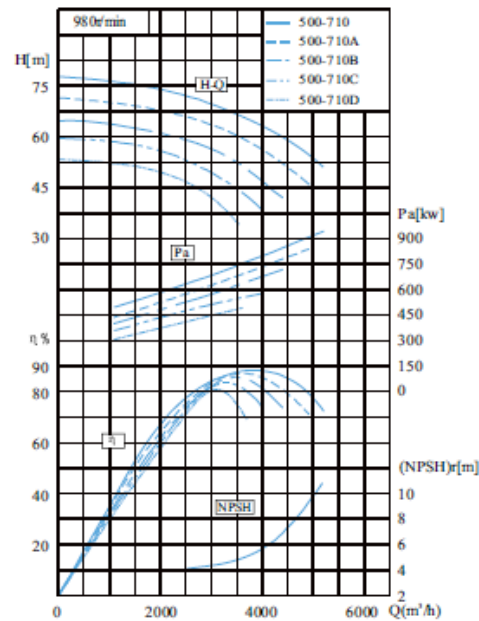
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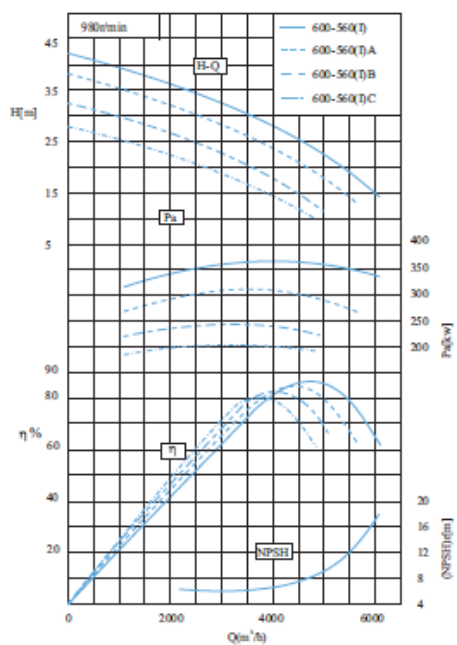
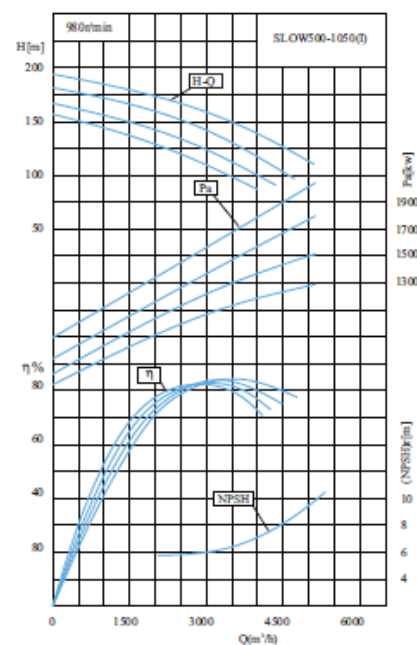
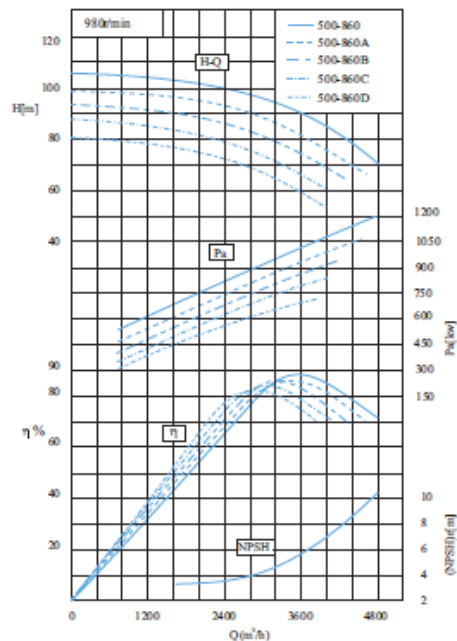
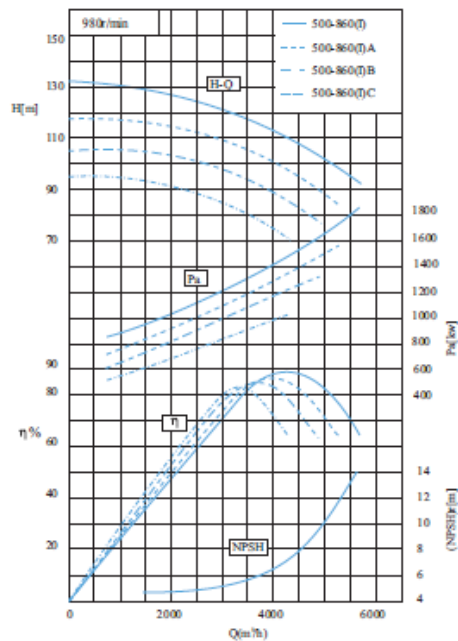
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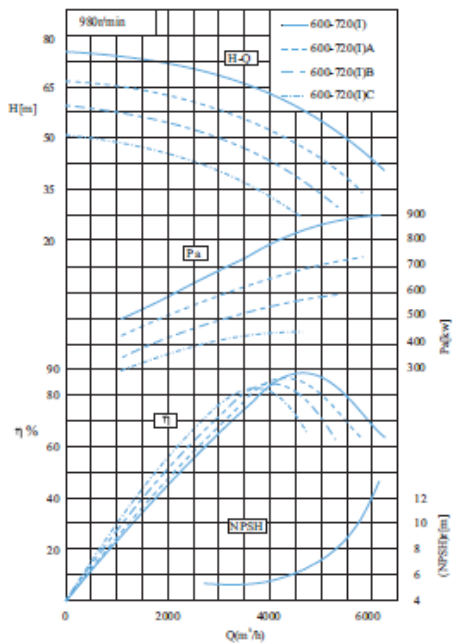
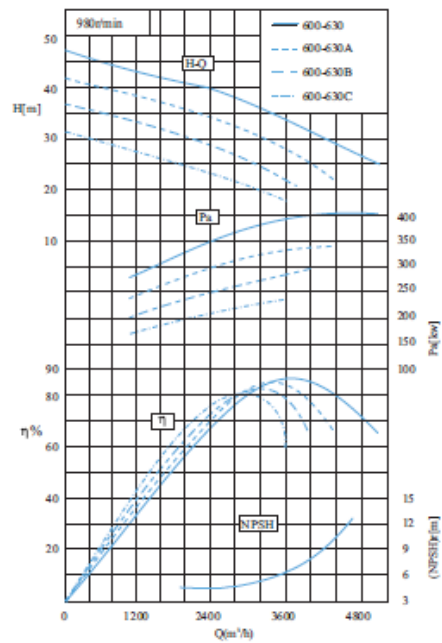
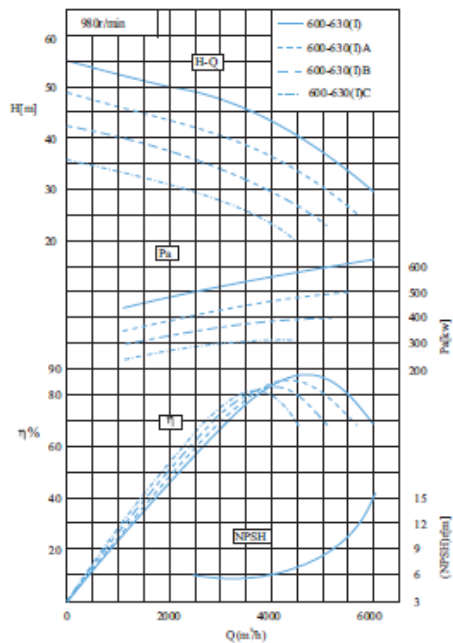
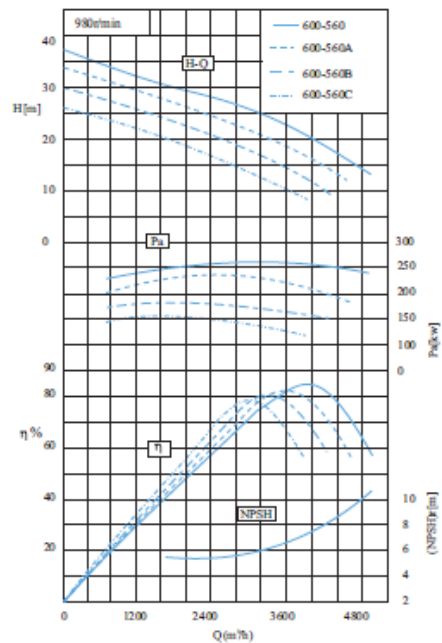
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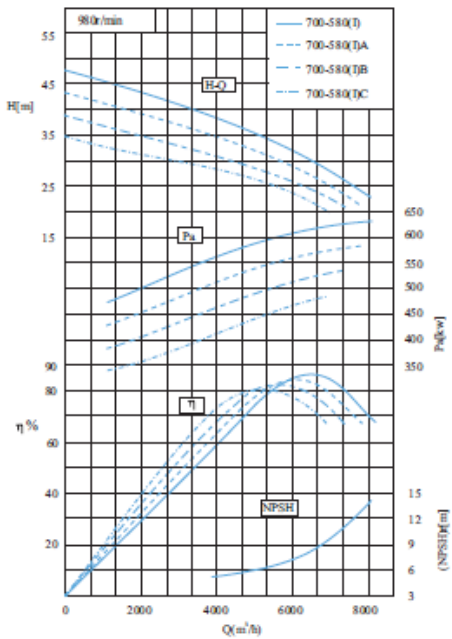
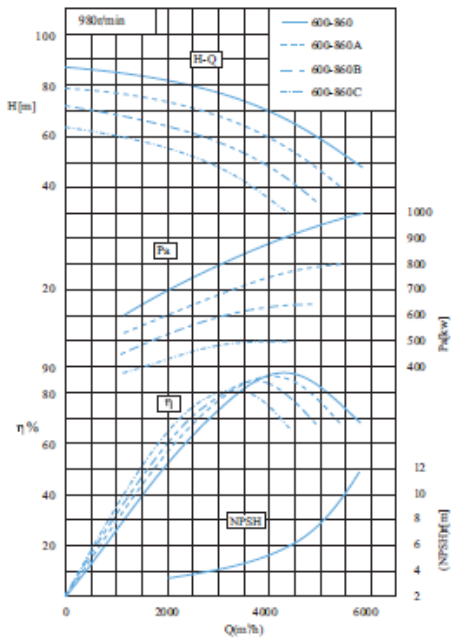
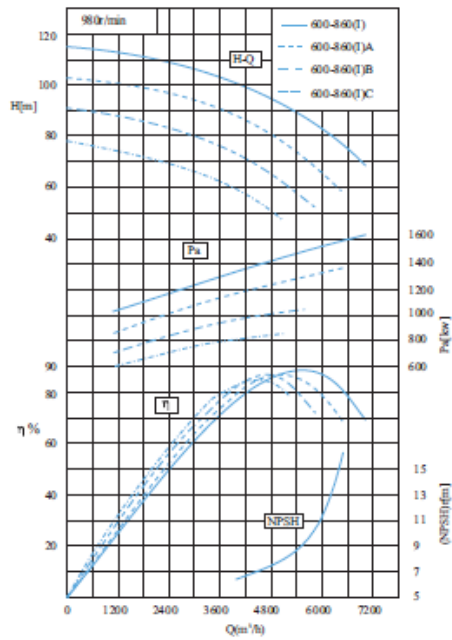
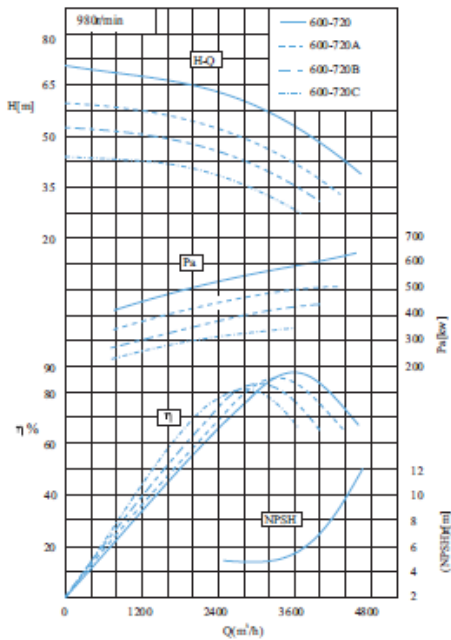
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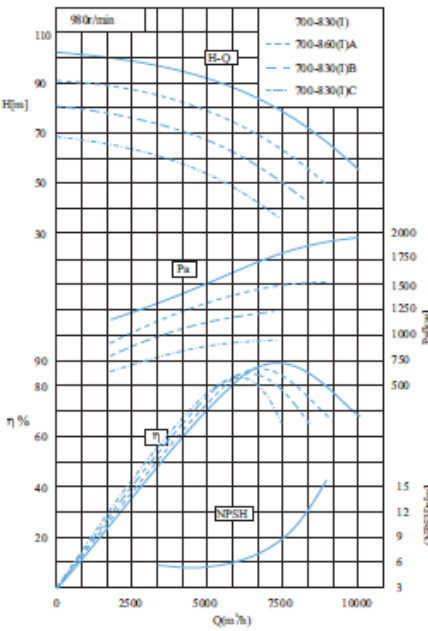
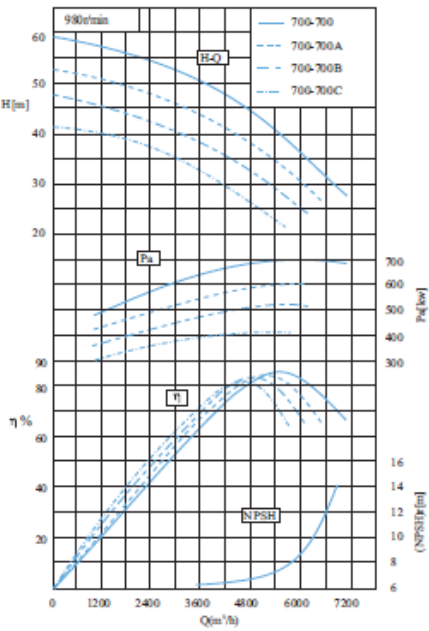
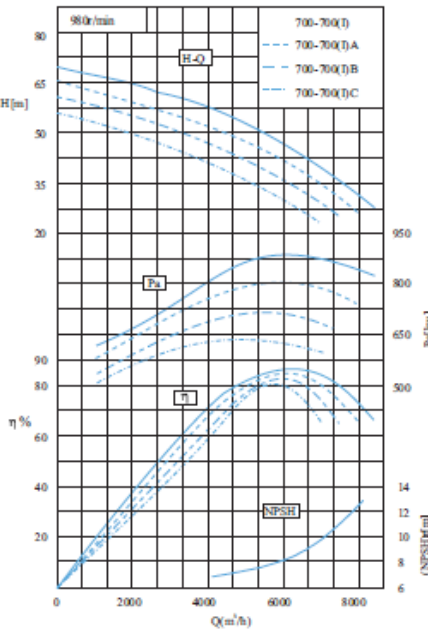
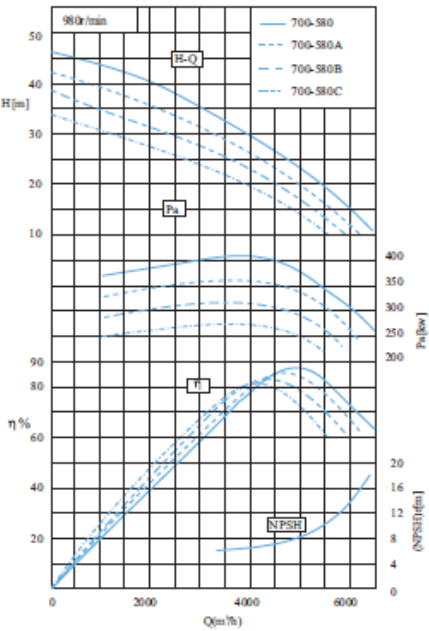
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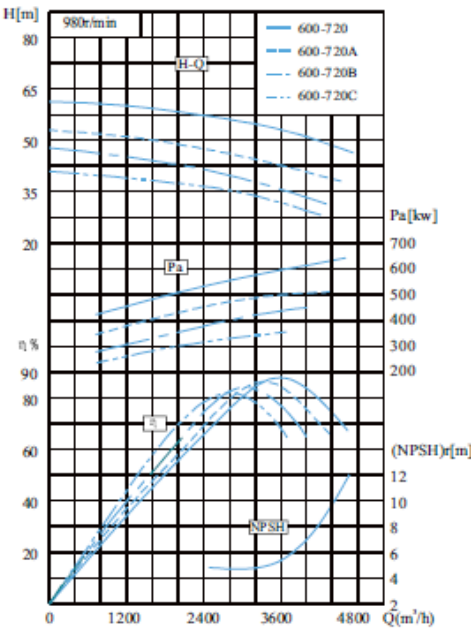
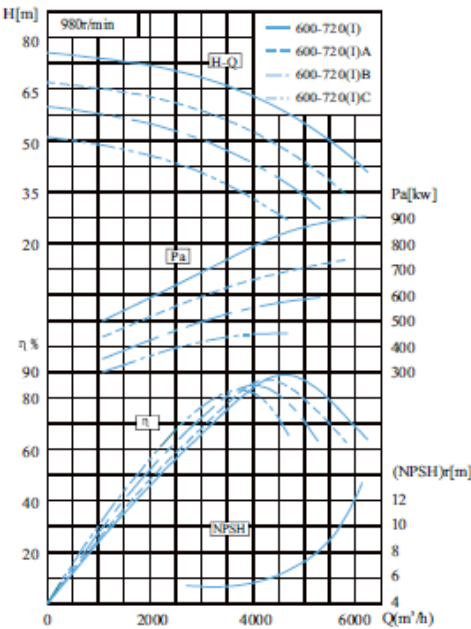
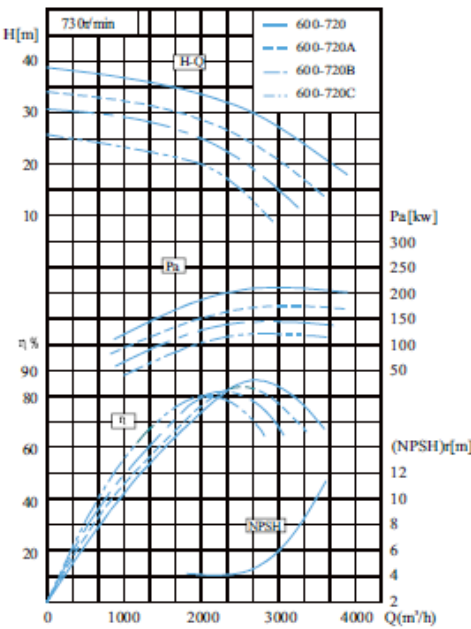
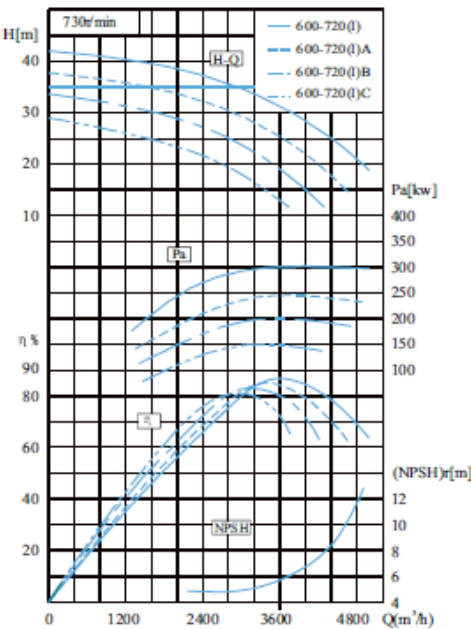
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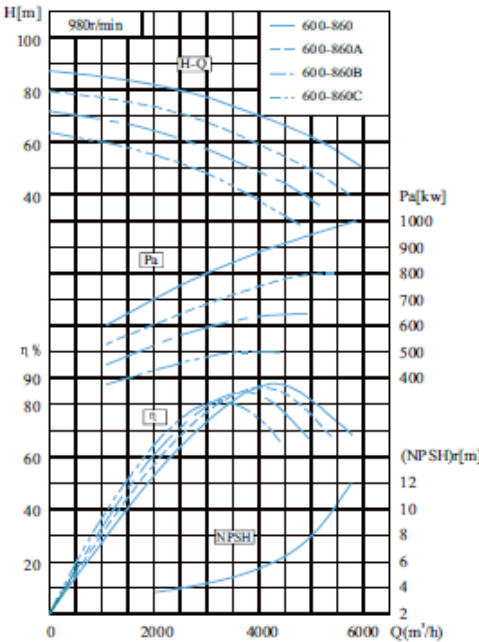
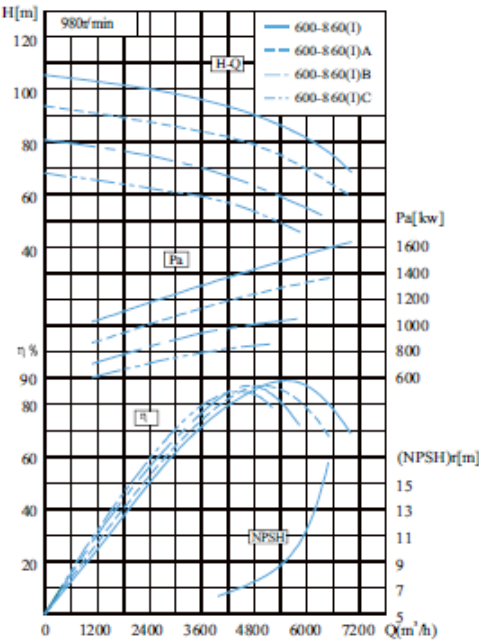
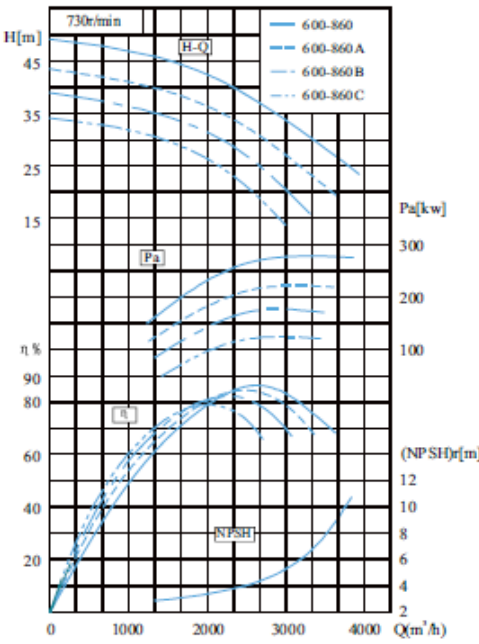
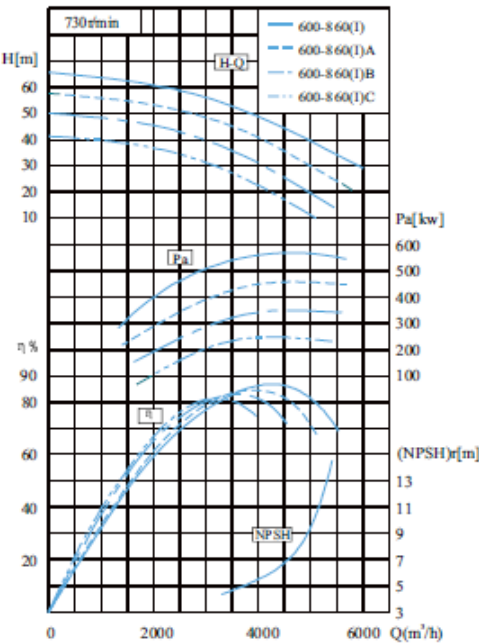
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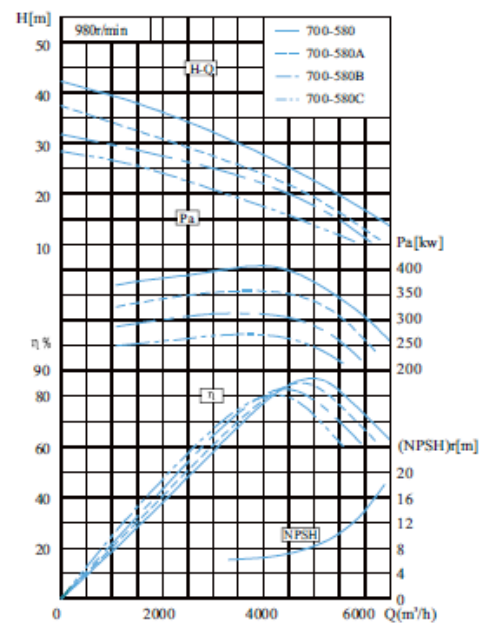
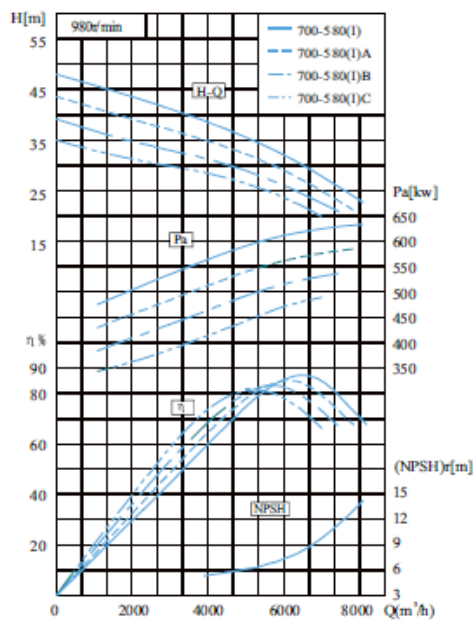
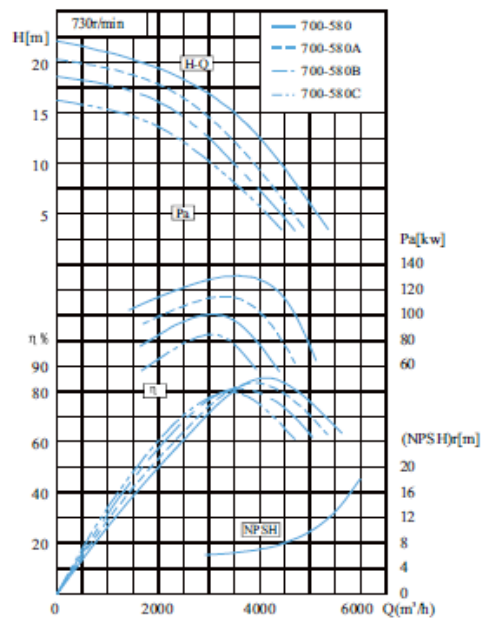
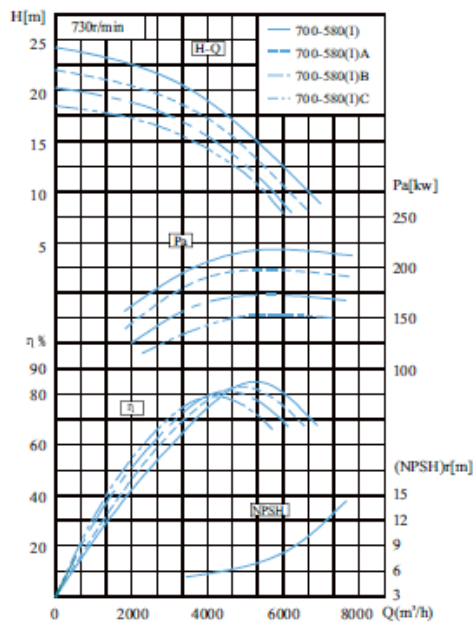
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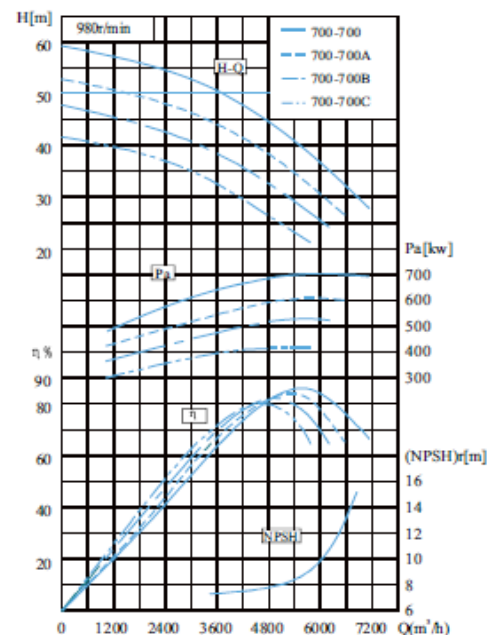
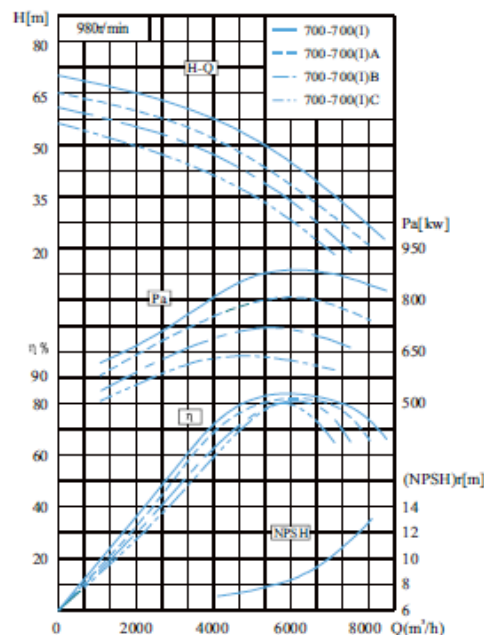
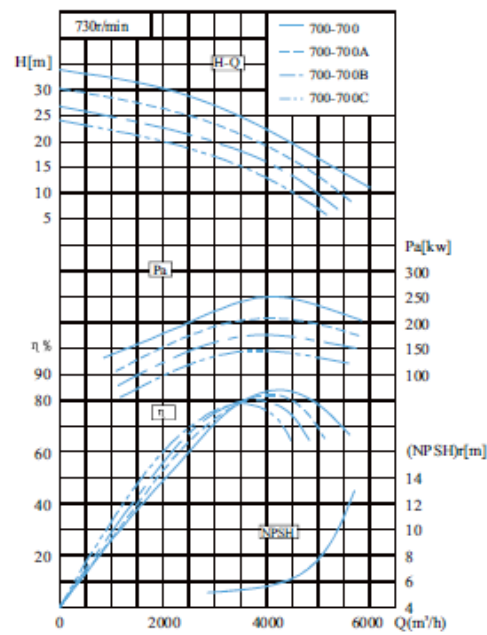
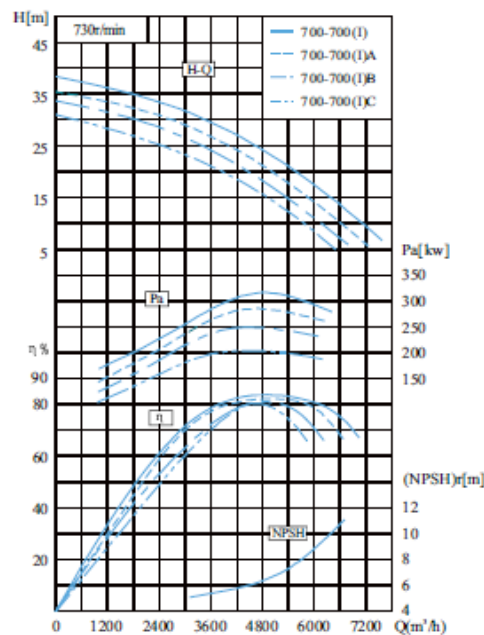
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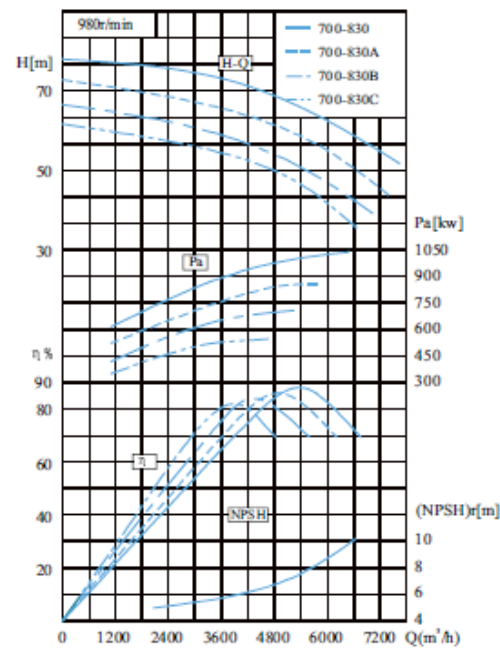
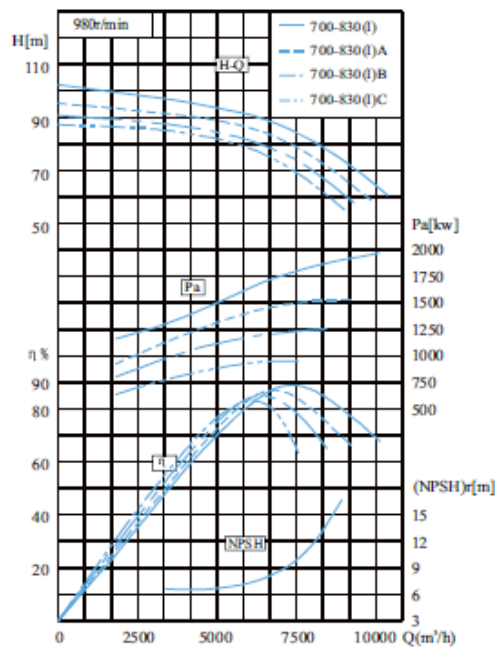
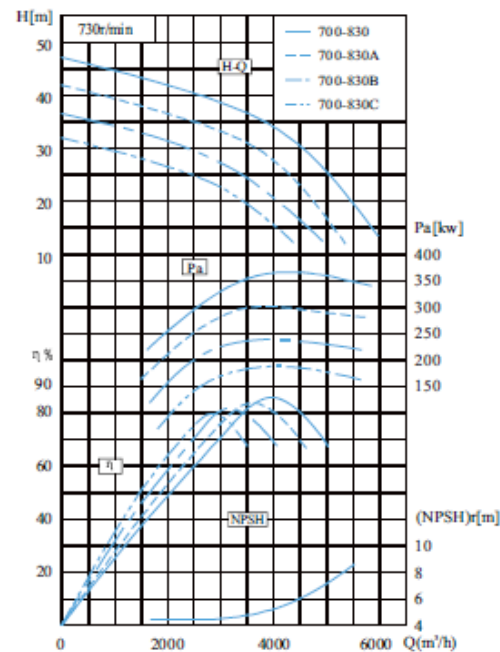
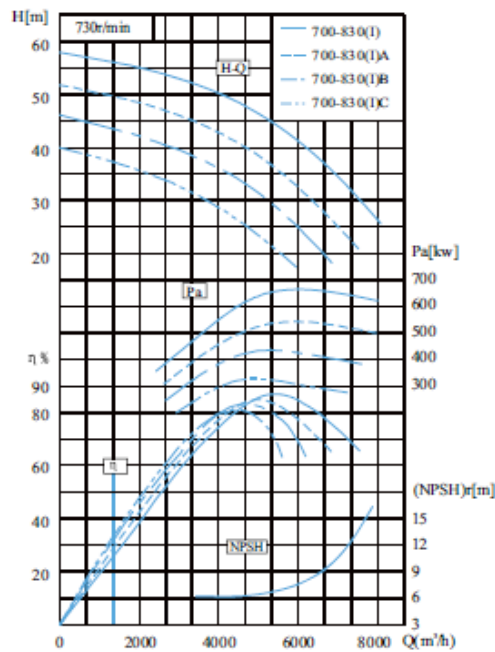
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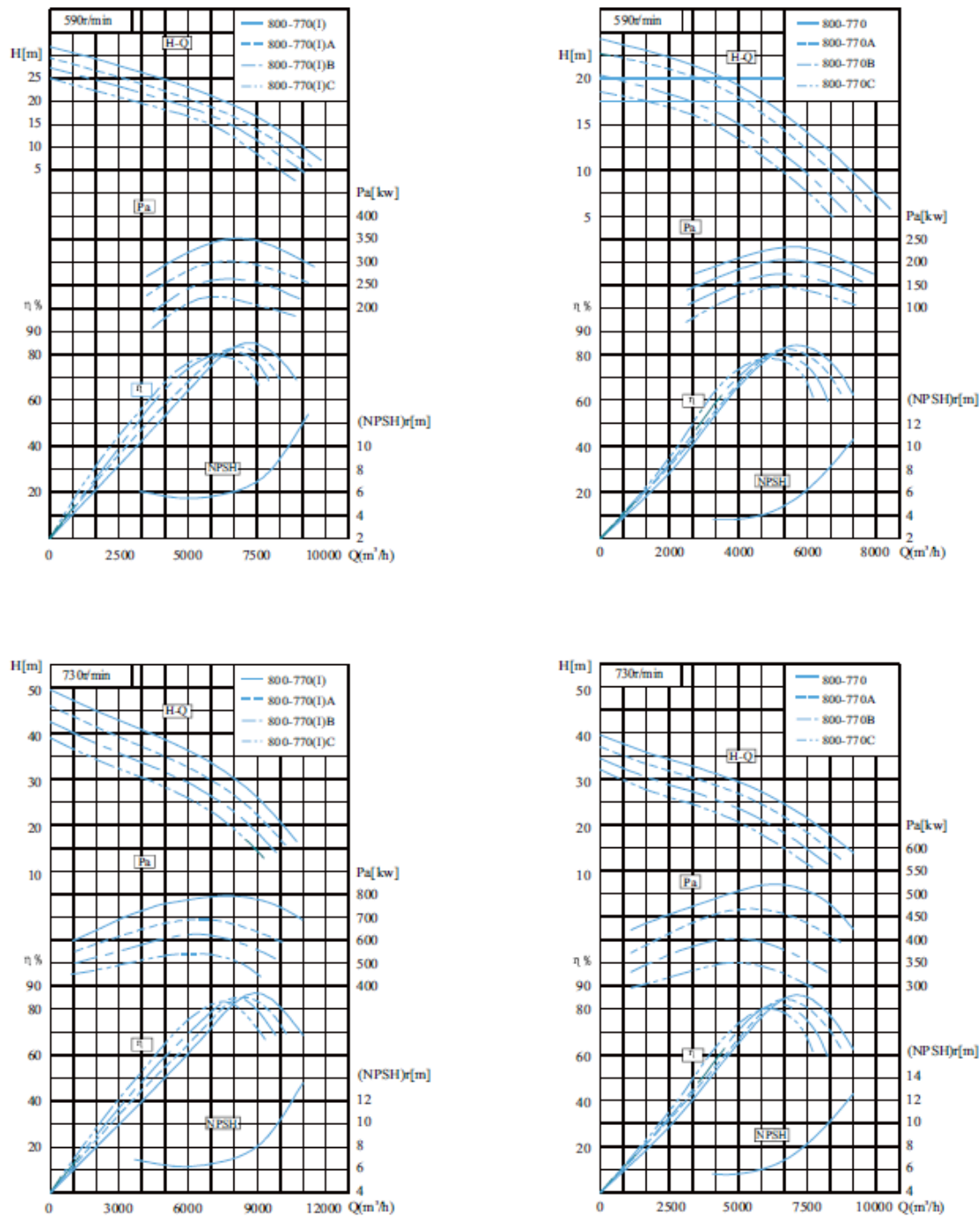
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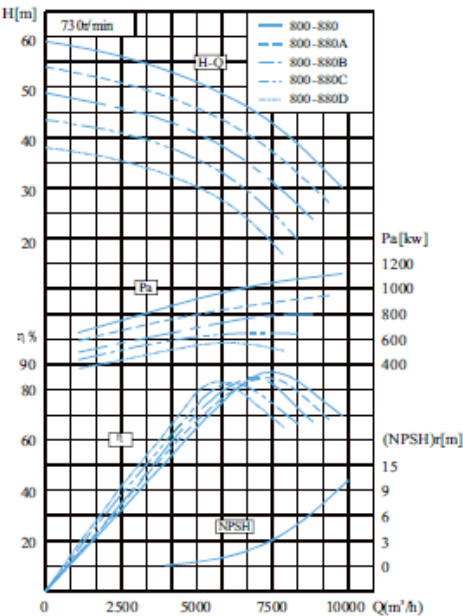
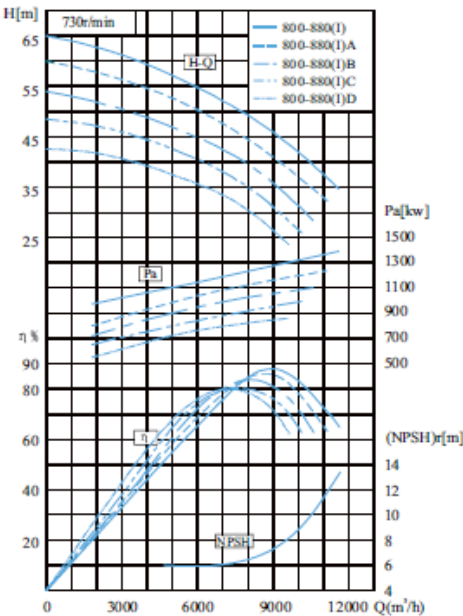
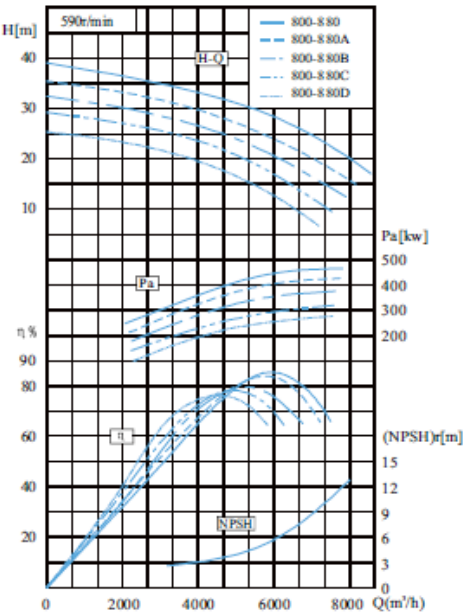
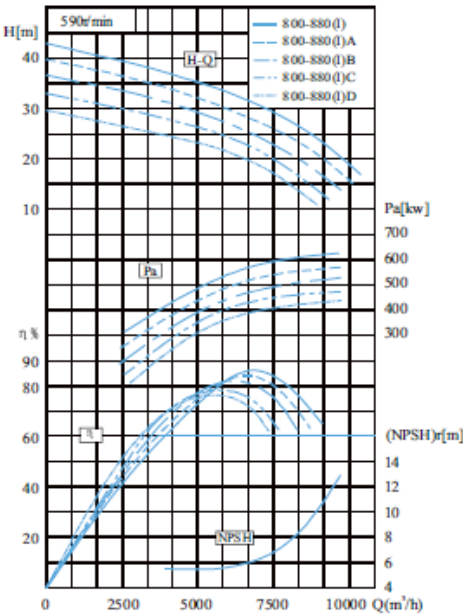
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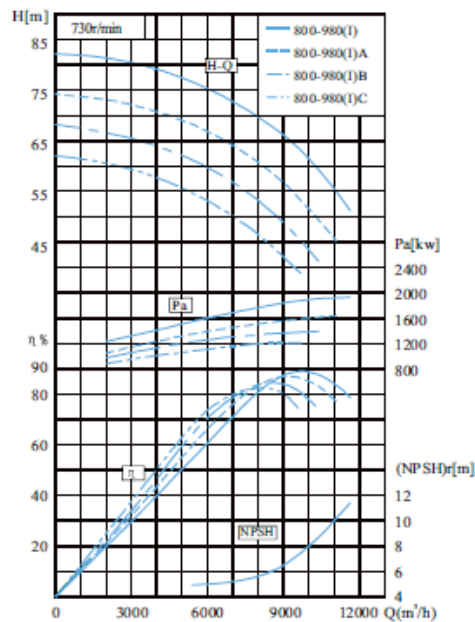
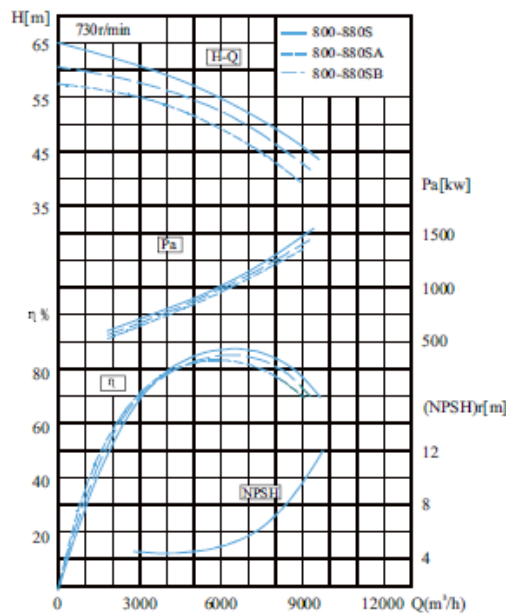
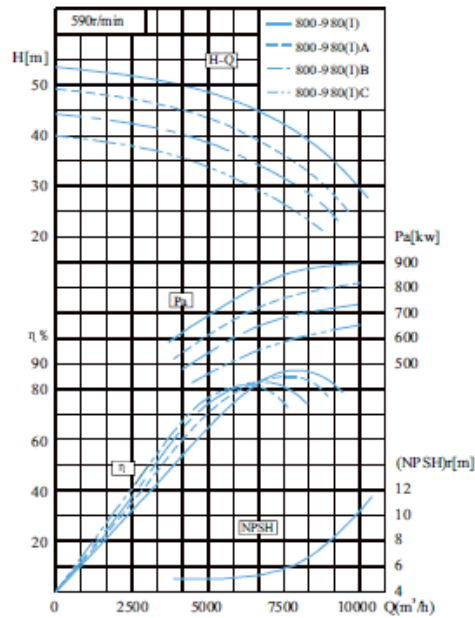
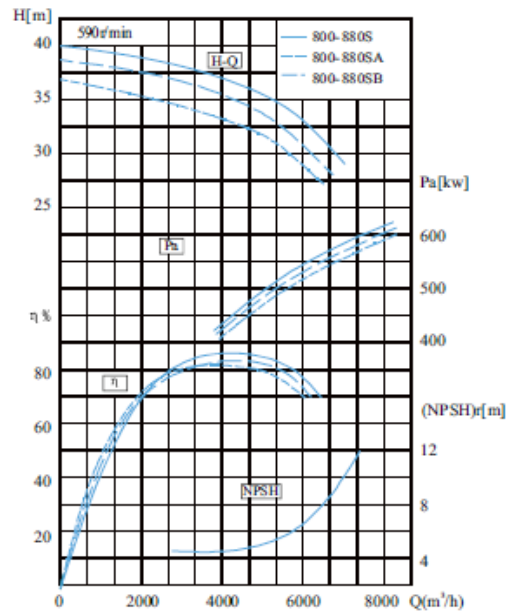
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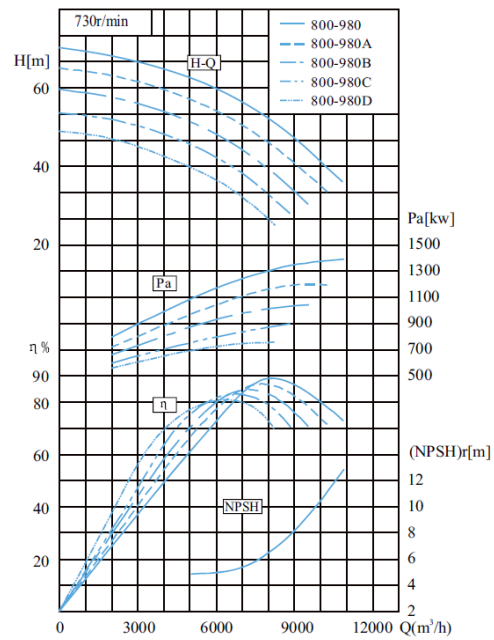
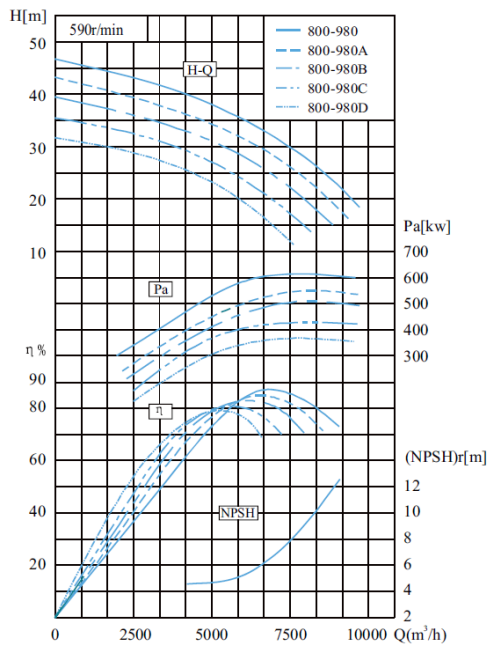
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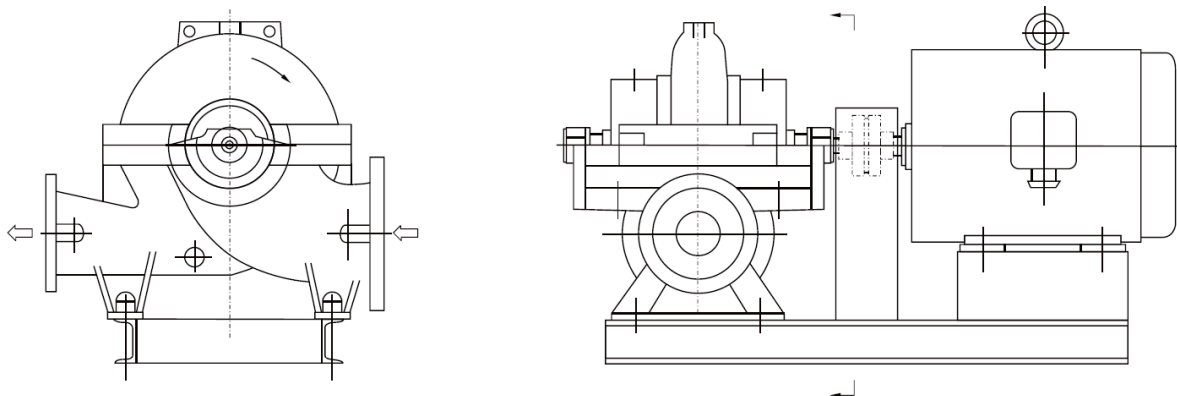


■ ■ ASN, ASNV PUMP PERFORMANCE CURVE



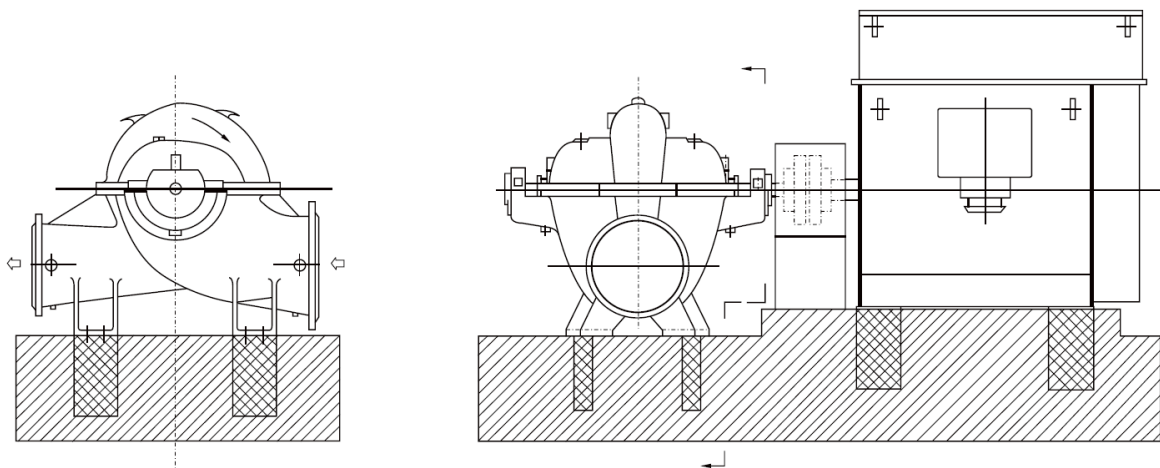
■ ■ ASN TYPE HORIZONTAL PUMP INSTALLATION MODEL

A : 80-200 // 350-640



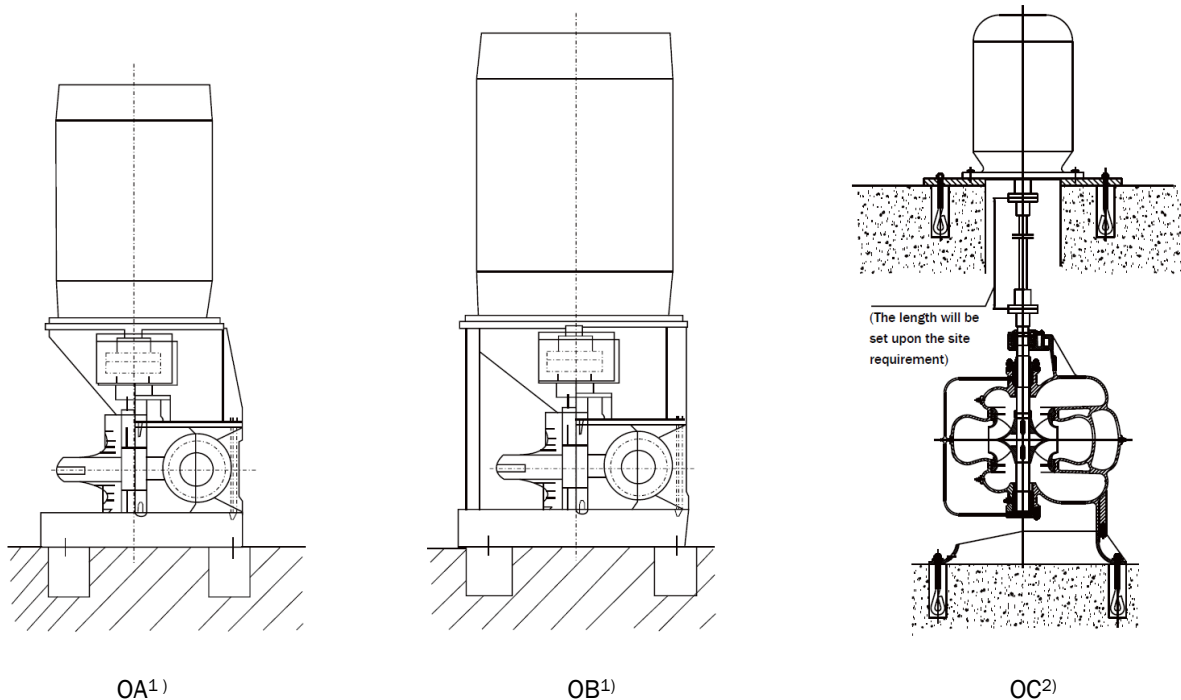
Both pump and motor are mounted on the foundation

B: 400-550 // 800-980



Both pump and motor are mounted on the basic

■ ■ ASNV TYPE VERTICAL PUMP INSTALLATION MODEL

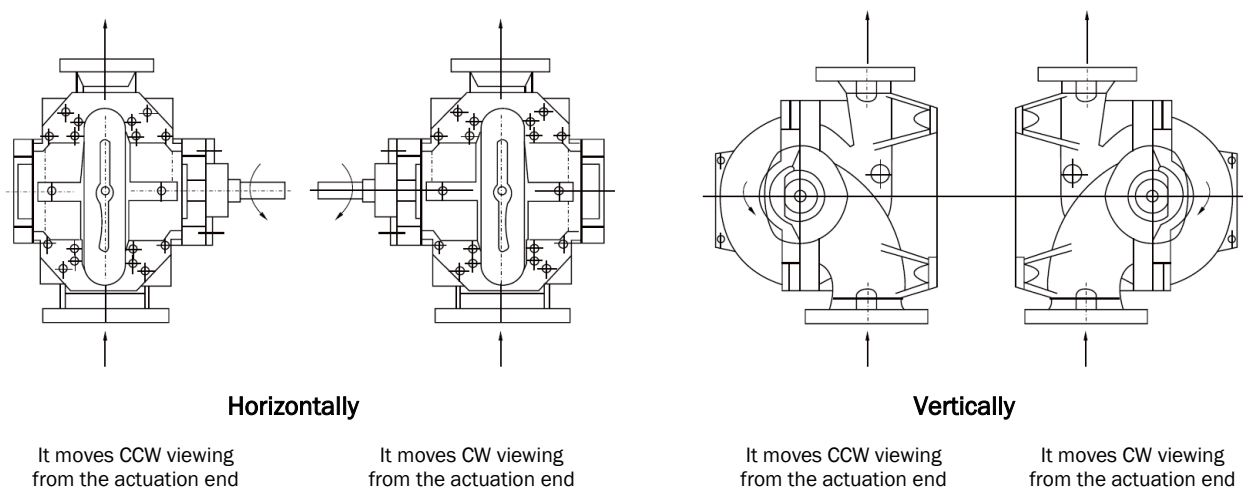


1) Select upon the motor size, see the installation diagram.

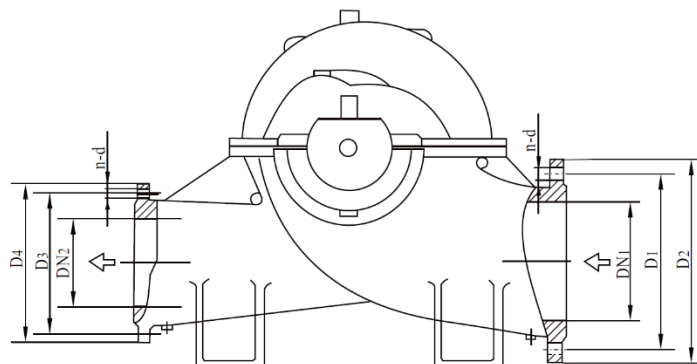
2) Note: this structure is available with the outlet of 400 aperture below, please contact with the technical center in case of a special requirement!

(Both motor and water pump hold a basis of their own and are joint to the pump directly or via an intermittent shaft)

■ ■ ROTATING DIRECTION/FLOWING DIRECTION

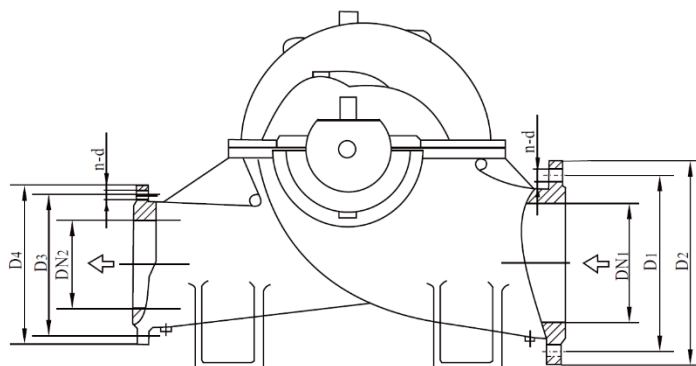


■ ■ ASN, ASNV TYPE CONJUNCTION FLANGE DIMENSION



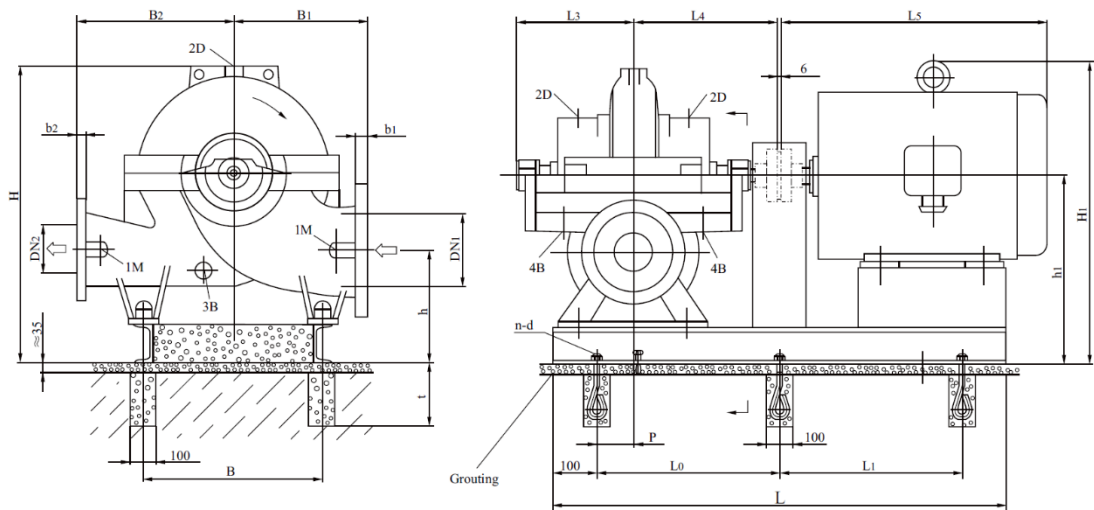
Pump Type	Inlet Diameter	Inlet Flange Dimension			Outlet Diameter	Outlet Flange Dimension		
	DN ₁	D ₁	D ₂	n-d	DN ₂	D ₃	D ₄	n-d
80-220	125	210	250	8-19	80	160	200	8-19
80-280								
80-350								
100-260	150	240	285	8-23	100	180	220	8-19
100-300								
100-320								
100-400								
125-240	200	295	340	12-23	125	210	250	8-19
125-300								
125-380								
125-400					125 (PN2.5)	220	270	8-28
125-450					125 (PN4.0)			
125-480					125	210	250	8-19
125-570								
150-280	200	295	340	12-23	150	240	285	8-23
150-310								
150-450								
150-570								
200-340	250	355	405	12-28	200	295	340	12-23
200-410								
200-530								
200-660					200 (PN2.5)	310	360	12-28
200-740								
250-390	300	410	460	12-28	250	355	405	12-28
250-470								
250-550	350	470	520	16-28				
250-600								
250-820	350	470	520	16-28	250 (PN2.5)	370	425	12-31

■ ■ ASN, ASNV TYPE CONJUNCTION FLANGE DIMENSION



Pump Type	Inlet Diameter	Inlet Flange Dimension			Outlet Diameter	Outlet Flange Dimension		
	DN ₁	D ₁	D ₂	n-d	DN ₂	D ₃	D ₄	n-d
300-330	350	470	520	16-28	300	410	460	12-28
300-450	400	525	580	16-31				
300-550								
300-710					300 (PN2.5)	430	485	16-31
350-380	400	525	580	16-31	350	470	520	16-28
350-440	450	585	640	20-31				
350-520								
350-640	400	525	580	16-31				
350-800	450	585	640	20-31	350 (PN2.5)	490	555	16-34
400-550	500	650	715	20-34	400	525	580	16-31
400-600					400 (PN2.5)	550	620	16-37
400-660								
500-520	600	770	840	20-37	500	650	715	20-34
500-650								
500-710								
500-800								
500-860								
500-1050	700	840	910	24-37	500 (PN2.5)	660	730	20-37
500-1060								
600-560	700	840	910	24-37	600	770	840	20-37
600-630								
600-720								
600-860								
600-900	800 (PN1.0)	950	1015	24-34	700	840	910	24-37
700-580	800	950	1025	24-40				
700-700								
700-830								
800-770	900	1050	1125	28-40	800	950	1025	24-40
800-880								
800-980								

■ ■ ASN TYPE PUMP INSTALLATION DIMENSION



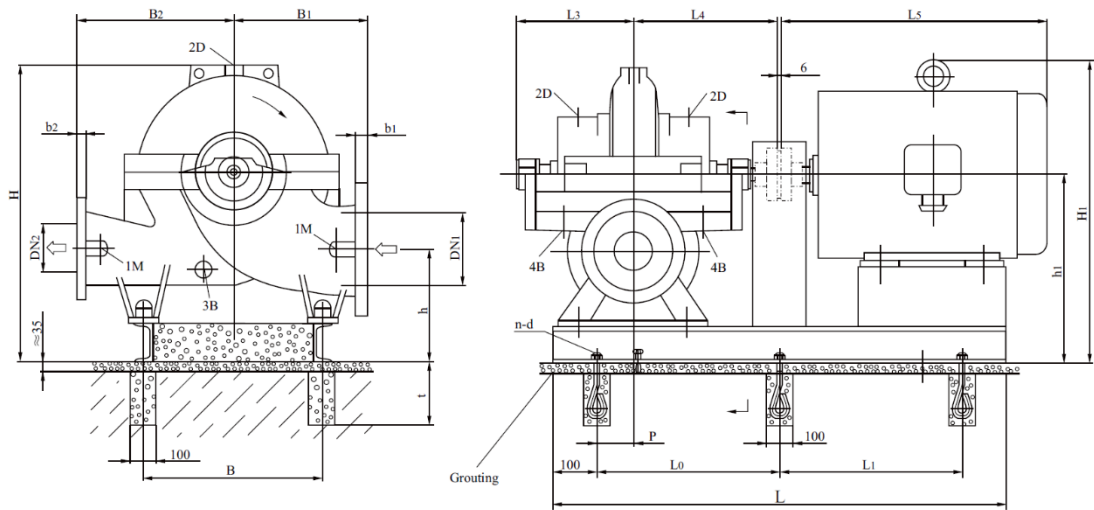
Connecting Thread Size

1M	Piexometer	R1/2
2D	Exhaust hole	R1/2
3B	Drainage hole	R1/2
4B	Drainage hole for leaked liquid	R3/4

External Dimension

Pump Type	Flange Dimension (mm)				Pump Dimension (mm)					Weight (kg)	
	DN ₁	DN ₂	b ₁	b ₂	B ₁	B ₂	L ₄	H _≤	L ₃	Pump	Water Content
80-220	125	80	26	24	300	300	415	600	300	181	10
80-280					330	330				194	15
80-350					330	330				204	20

■ ■ ASN TYPE PUMP INSTALLATION DIMENSION



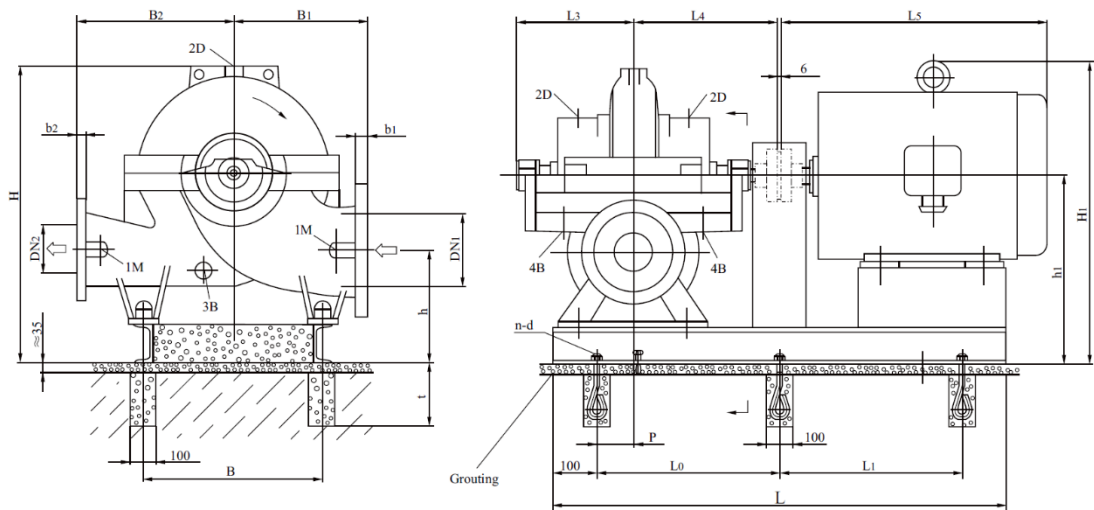
Connecting Thread Size

1M	Piexometer	R1/2
2D	Exhaust hole	R1/2
3B	Drainage hole	R1/2
4B	Drainage hole for leaked liquid	R3/4

External Dimension

Pump Type	Flange Dimension (mm)				Pump Dimension (mm)					Weight (kg)	
	DN ₁	DN ₂	b ₁	b ₂	B ₁	B ₂	L ₄	H _≤	L ₃	Pump	Water Content
100-260	150	100	28	24	330	330	415	760	300	207	20
100-300										200	20
100-320										223	25
100-400					370	370				241	30

■ ■ ASN TYPE PUMP INSTALLATION DIMENSION



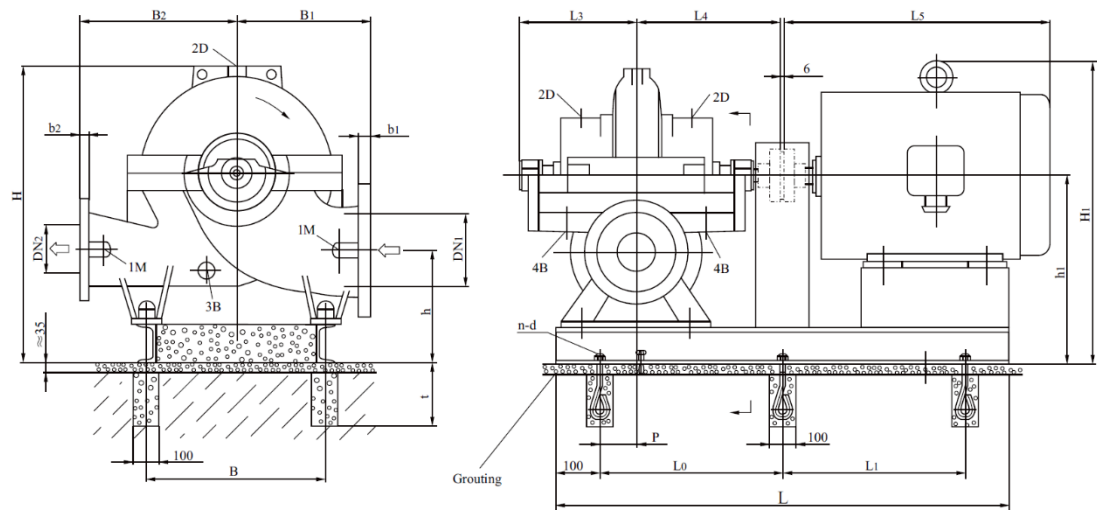
Connecting Thread Size

1M	Piexometer	R1/2
2D	Exhaust hole	R1/2
3B	Drainage hole	R1/2
4B	Drainage hole for leaked liquid	R3/4

External Dimension

Pump Type	Flange Dimension (mm)				Pump Dimension (mm)					Weight (kg)	
	DN ₁	DN ₂	b ₁	b ₂	B ₁	B ₂	L ₄	H _≤	L ₃	Pump	Water Content
125-240	200	125	30	26	370	370	515	825	366	310	35
125-300										350	40
125-380										370	45
125-400				30						370	50
125-450			20	23.5	475	475	550	1090	405	480	55
125-480			30	26	450	450	515	825	366	500	55
125-570					600	500	590	1150	425	700	85

■ ■ ASN TYPE PUMP INSTALLATION DIMENSION



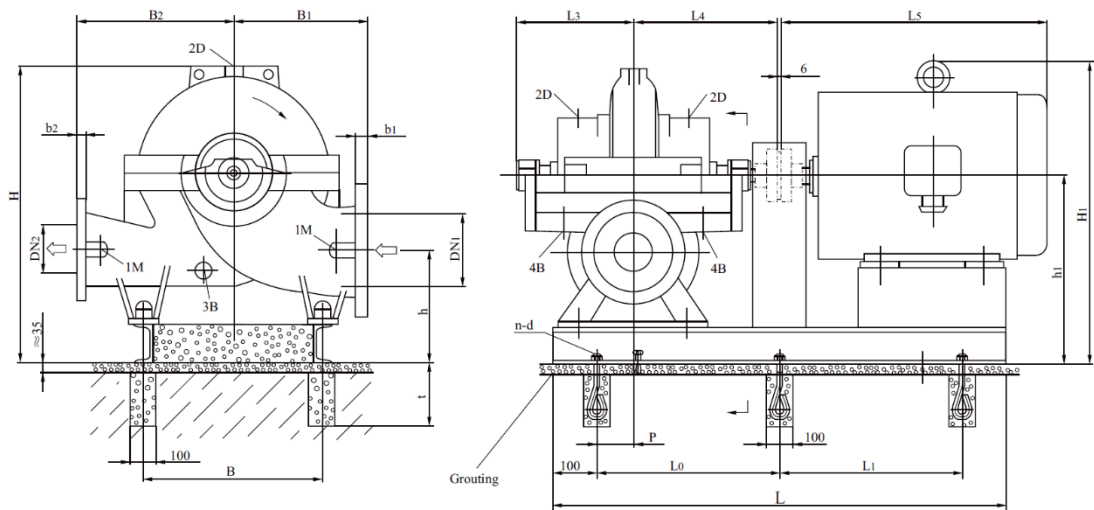
Connecting Thread Size

1M	Piexometer	R1/2
2D	Exhaust hole	R1/2
3B	Drainage hole	R1/2
4B	Drainage hole for leaked liquid	R3/4

External Dimension

Pump Type	Flange Dimension (mm)				Pump Dimension (mm)					Weight (kg)	
	DN ₁	DN ₂	b ₁	b ₂	B ₁	B ₂	L ₄	H _≤	L ₃	Pump	Water Content
150-280	200	150	30	28	400	400	515	1050	366	347	50
150-310				26				950	380	450	65
150-450				28	450	450	590	1050	399	520	75
150-570					600	500				740	90

■ ■ ASN TYPE PUMP INSTALLATION DIMENSION



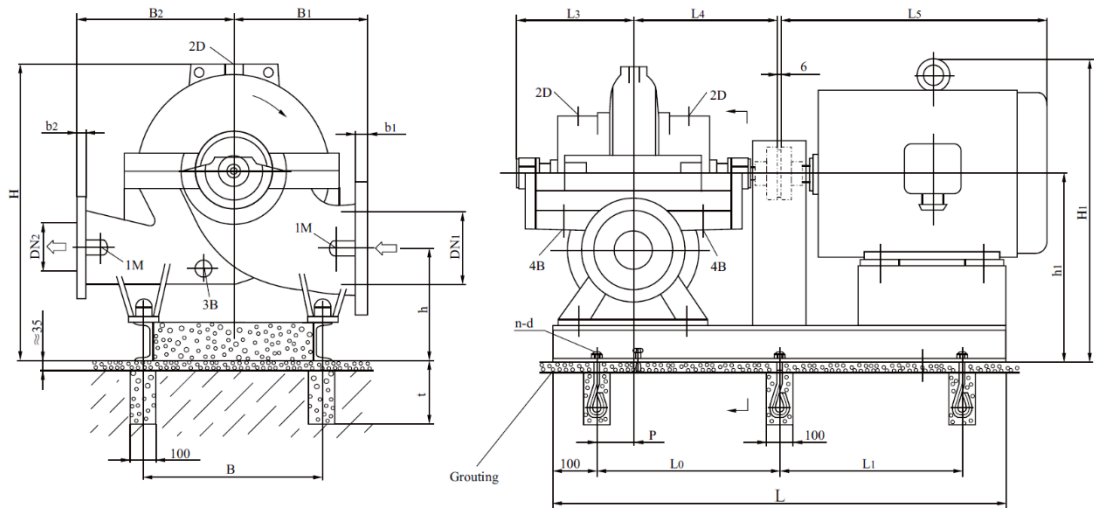
Connecting Thread Size

1M	Piexometer	R1/2
2D	Exhaust hole	R1/2
3B	Drainage hole	R1/2
4B	Drainage hole for leaked liquid	R3/4

External Dimension

Pump Type	Flange Dimension (mm)				Pump Dimension (mm)				Weight (kg)		
	DN ₁	DN ₂	b ₁	b ₂	B ₁	B ₂	L ₄	H≤	L ₃	Pump	Water Content
200-340	250	200	32	30	450	450	590	1240	399	590	80
200-410					500	500				620	95
200-530					600	500				840	115
200-660					650	550	655		464	1000	140
200-740					700	600		1420	500	1400	180

■ ■ ASN TYPE PUMP INSTALLATION DIMENSION



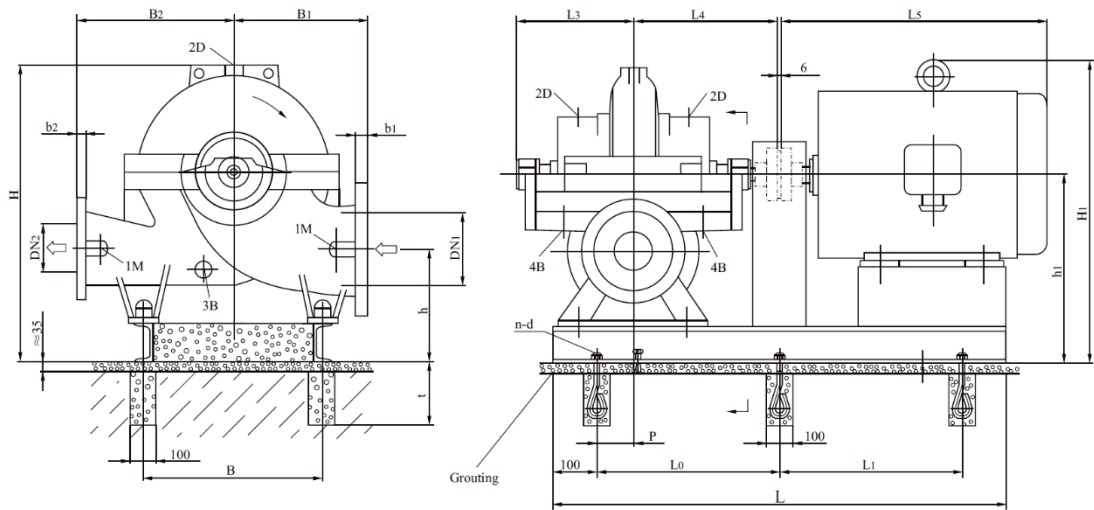
Connecting Thread Size

1M	Piexometer	R1/2
2D	Exhaust hole	R1/2
3B	Drainage hole	R1/2
4B	Drainage hole for leaked liquid	R3/4

External Dimension

Pump Type	Flange Dimension (mm)				Pump Dimension (mm)				Weight (kg)		
	DN ₁	DN ₂	b ₁	b ₂	B ₁	B ₂	L ₄	H _≤	L ₃	Pump	Water Content
250-390	300	250	36	32	500	500	655	1275	464	810	125
250-470					550	550	730		515	930	145
250-600	350		42		650	550	839	1450	660	1400	180
250-550					650	550	655	1275	495	1000	150
250-820					700	650	810	1500	621	2000	200

■ ■ ASN TYPE PUMP INSTALLATION DIMENSION



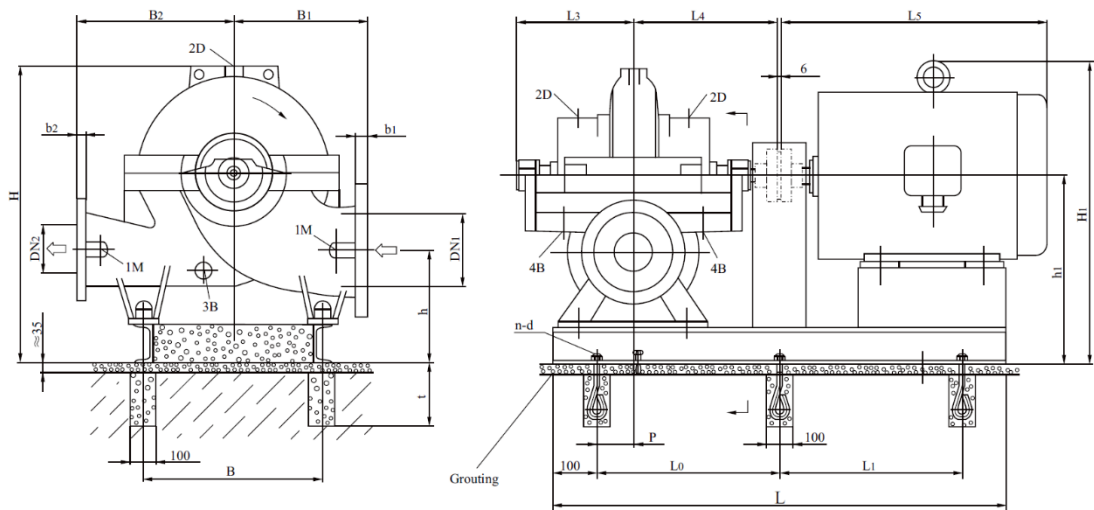
Connecting Thread Size

1M	Piexometer	R1/2
2D	Exhaust hole	R1/2
3B	Drainage hole	R1/2
4B	Drainage hole for leaked liquid	R3/4

External Dimension

Pump Type	Flange Dimension (mm)					Pump Dimension (mm)				Weight (kg)	
	DN ₁	DN ₂	b ₁	b ₂	B ₁	B ₂	L ₄	H≤	L ₃	Pump	Water Content
300-330	350	300	40	36	550	500	655	1430	464	900	100
300-450	400	300	44	36	650	550	730	1430	515	1400	190
300-550	400	300	44	36	700	650	810	1430	585	2097	225
300-710	400	300	48	40	750	650	935	1430	748	2600	275

■ ■ ASN TYPE PUMP INSTALLATION DIMENSION



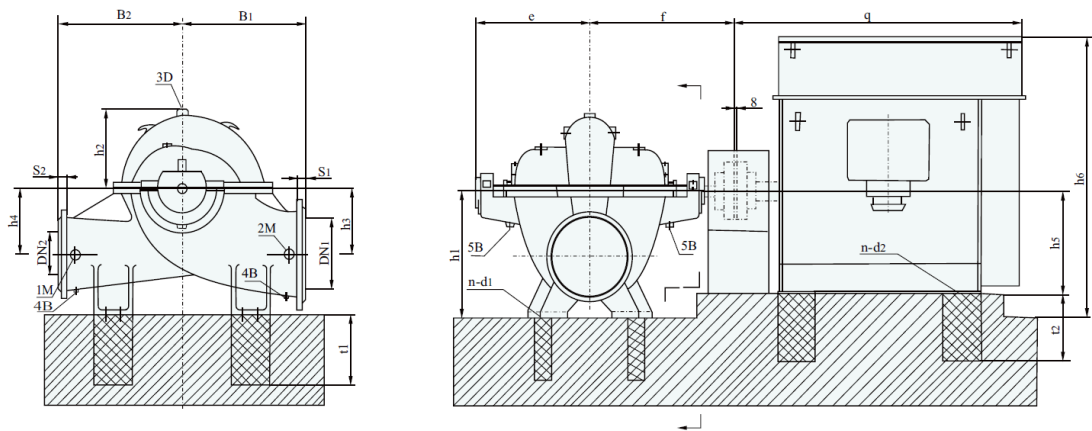
Connecting Thread Size

1M	Piexometer	R1/2
2D	Exhaust hole	R1/2
3B	Drainage hole	R1/2
4B	Drainage hole for leaked liquid	R3/4

External Dimension

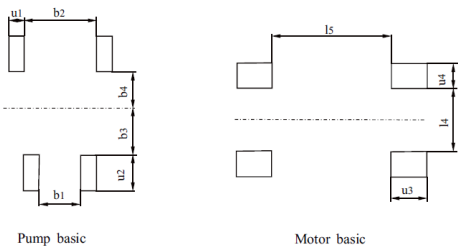
Pump Type	Flange Dimension (mm)				Pump Dimension (mm)				Weight (kg)		
	DN ₁	DN ₂	b ₁	b ₂	B ₁	B ₂	L ₄	H≤	L ₃	Pump	Water Content
350-380	400	350	44	40	650	550	730	1415	515	1200	160
350-440	450				750	650	810		585	1450	240
350-520					700					1800	290
350-640	400		44	40	740	670	910	1550	710	2570	324
350-800	450				800	800	1020	1830	760	3000	350

■ ■ ASN TYPE PUMP INSTALLATION DIMENSION



Connecting Thread Size

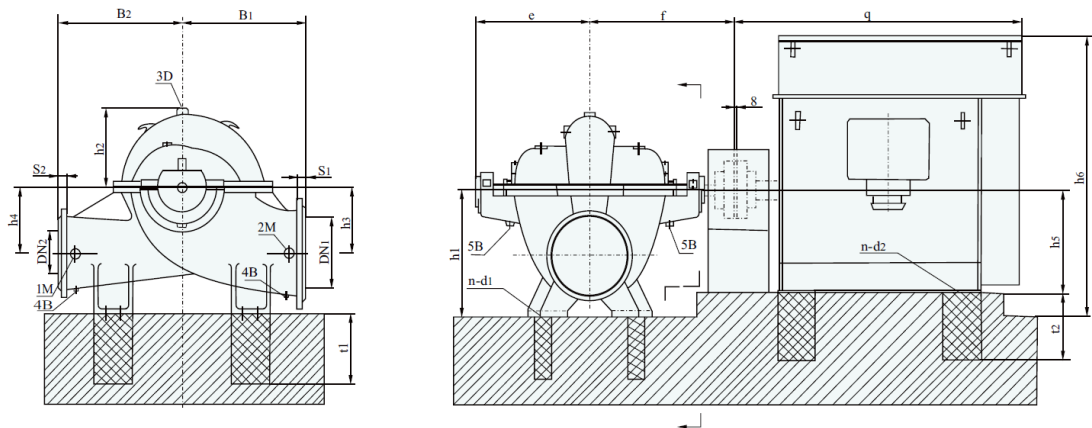
1M	Piexometer	R1/2
2D	Vacuum	R1/2
3B	Exhaust hole	R1
4B	Drainage hole	R1
5B	Drainage hole for leaked liquid	R1



External Dimension

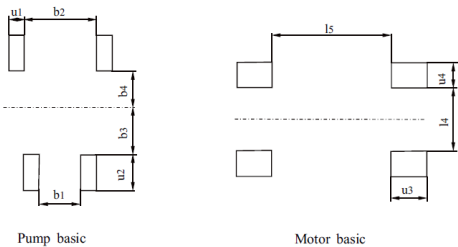
Pump Type	Flange Dimension (mm)				Pump Dimension (mm)													Pump Weight (kg)
	DN1	DN2	S1	S2	B1	B2	e	f	h1	h2	h3	h4	b1	b2	b3	b4	n-d1	
400-550	500	400	42	38	800	750	585	810	900	500	425	500	400	400	250	250	4-35	2400
400-600			48	48	850		793	980		557			315	315			4-42	3200
400-660	600						670	960	950	560	500							

■ ■ ASN TYPE PUMP INSTALLATION DIMENSION



Connecting Thread Size

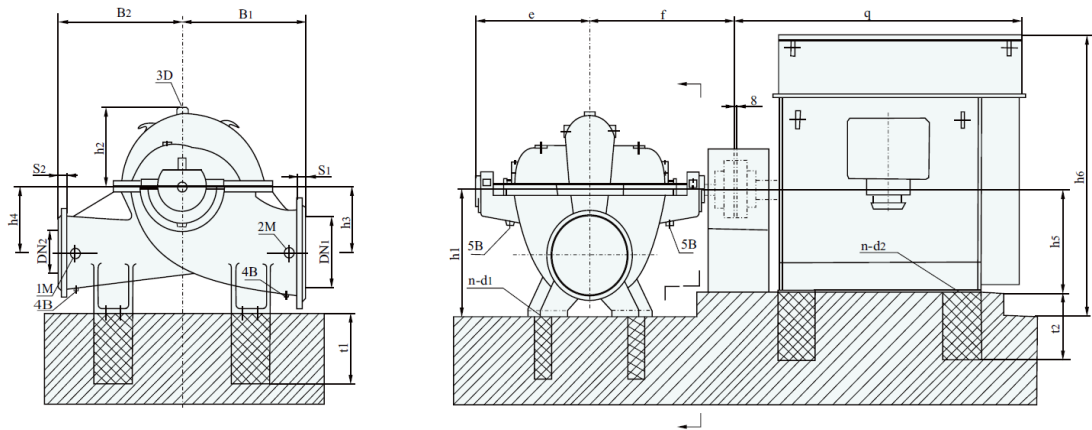
1M	Piexometer	R1/2
2D	Vacuum	R1/2
3B	Exhaust hole	R1
4B	Drainage hole	R1
5B	Drainage hole for leaked liquid	R1



External Dimension

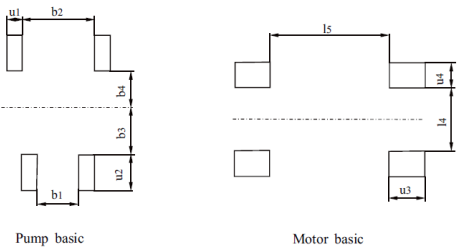
Pump Type	Flange Dimension (mm)				Pump Dimension (mm)													Pump Weight (kg)
	DN1	DN2	S1	S2	B1	B2	e	f	h1	h2	h3	h4	b1	b2	b3	b4	n-d1	
500-520	600	500	48	42	850	7500	845	1025	900	550	475	475	700	1000	250	290	4-30	3200
500-650					950	800	910	1095	980	650	495	495			300	340	4-35	4500
500-710					1050	850	860	1085	1000	580	550	620			390	490	4-42	5240
500-800					1000	900	946	1210	1050	610	600	600			440	540		4900
500-860					1050	950	946	1210	1100	660	650	650	750		490	590		5000
500-1050	700	500	54	52	1130	1050	970	1270	1180	870	700	700	780	780	325	475	8-42	6300
500-1650																		6500

■ ■ ASN TYPE PUMP INSTALLATION DIMENSION



Connecting Thread Size

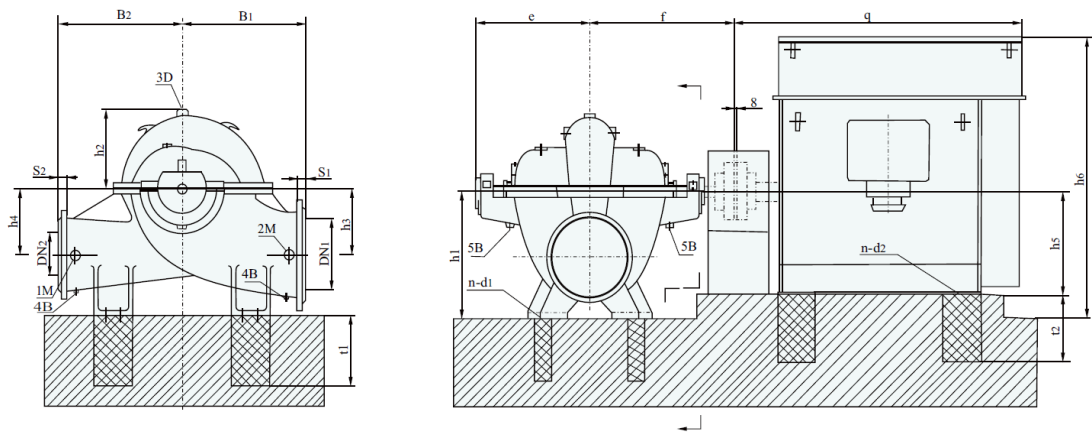
1M	Piexometer	R1/2
2D	Vacuum	R1/2
3B	Exhaust hole	R1
4B	Drainage hole	R1
5B	Drainage hole for leaked liquid	R1



External Dimension

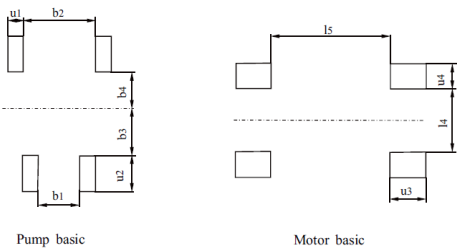
Pump Type	Flange Dimension (mm)				Pump Dimension (mm)													Pump Weight (kg)
	DN1	DN2	S1	S2	B1	B2	e	f	h1	h2	h3	h4	b1	b2	b3	b4	n-d1	
600-560	700	600	54	48	1100	900	893	1080	1100	645	610	610	650	950	400	500	4-35	4500
600-630					1000	1000	878.5	1060	1050	640	545	545			500			4-40
600-720						1100	935	1160		612			750	1050			600	
600-860					1100	1200	1011	1275	1100	705	580	580			5300			
600-900	800	600	44	48	1200	1000	1011	1270	1250	760	670	670	850	850	450	550	4-65	5800

■ ■ ASN TYPE PUMP INSTALLATION DIMENSION



Connecting Thread Size

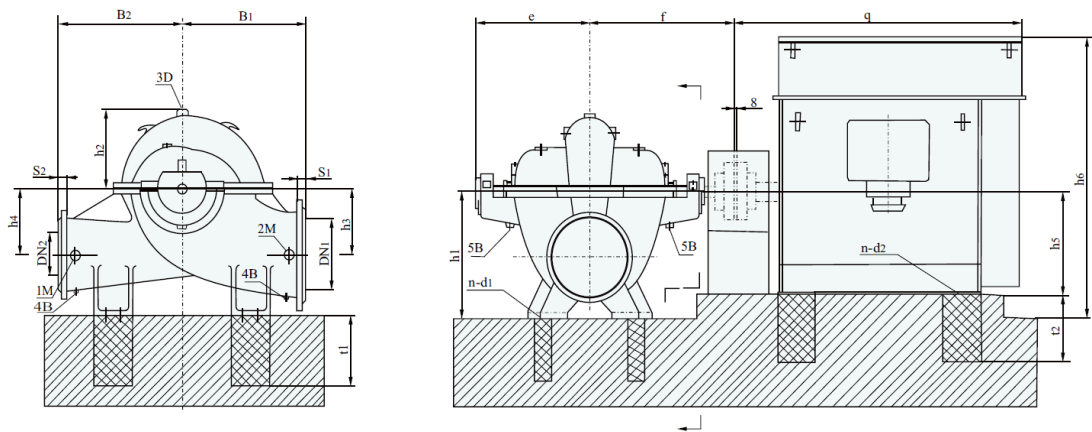
1M	Piexometer	R1/2
2D	Vacuum	R1/2
3B	Exhaust hole	R1
4B	Drainage hole	R1
5B	Drainage hole for leaked liquid	R1



External Dimension

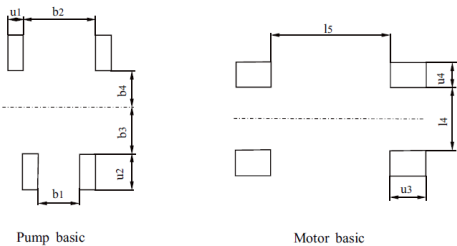
Pump Type	Flange Dimension (mm)				Pump Dimension (mm)													Pump Weight (kg)
	DN1	DN2	S1	S2	B1	B2	e	f	h1	h2	h3	h4	b1	b2	b3	b4	n-d1	
700-580	800	700	58	54	1300	800	1119	1300	1150	755	600	600	640	940	250	550	4-42	5100
700-700					1200	1150	1135	1360	1170	692	620	620	1080	1630	550			6500
700-830						1150	1176	1440	1200	730	630	630	640	940	600	600		6700

■ ■ ASN TYPE PUMP INSTALLATION DIMENSION



Connecting Thread Size

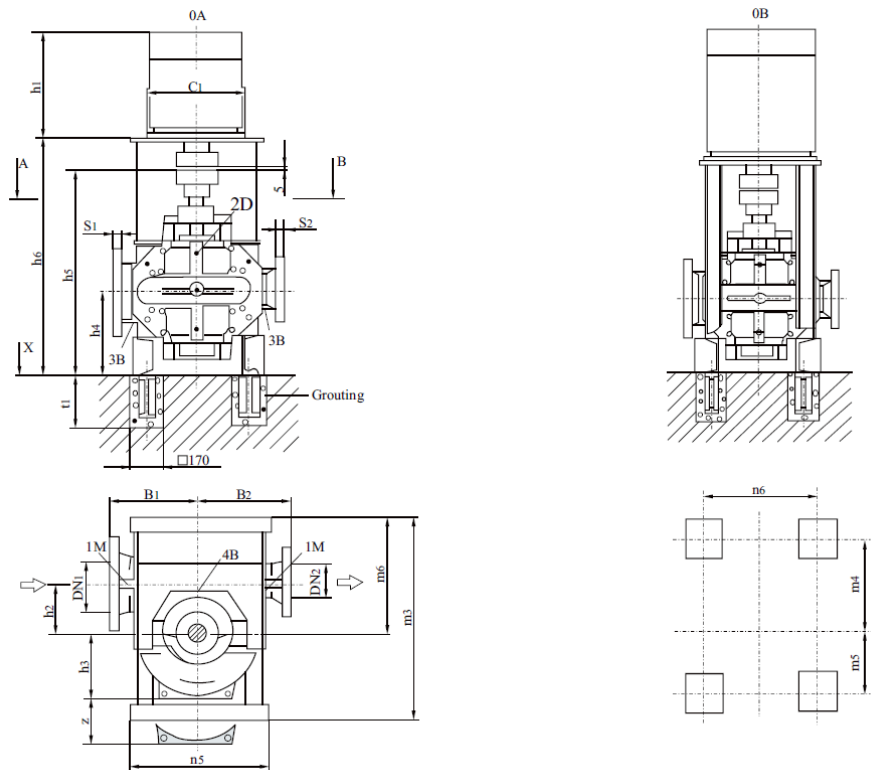
1M	Piexometer	R1/2
2D	Vacuum	R1/2
3B	Exhaust hole	R1
4B	Drainage hole	R1
5B	Drainage hole for leaked liquid	R1



External Dimension

Pump Type	Flange Dimension (mm)				Pump Dimension (mm)													Pump Weight (kg)
	DN1	DN2	S1	S2	B1	B2	e	f	h1	h2	h3	h4	b1	b2	b3	b4	n-d1	
800-770	900	800	62	58	1400	950	1185	1410	1380	765	770	770	740	1040	350	500	4-42	7800
800-880						1125	1236	1500	1360	900					500	550	4-55	8300
800-980						1300	1300	1580	1370	920	760	760			600	600		9130

■ ■ ASNV TYPE PUMP INSTALLATION DIMENSION



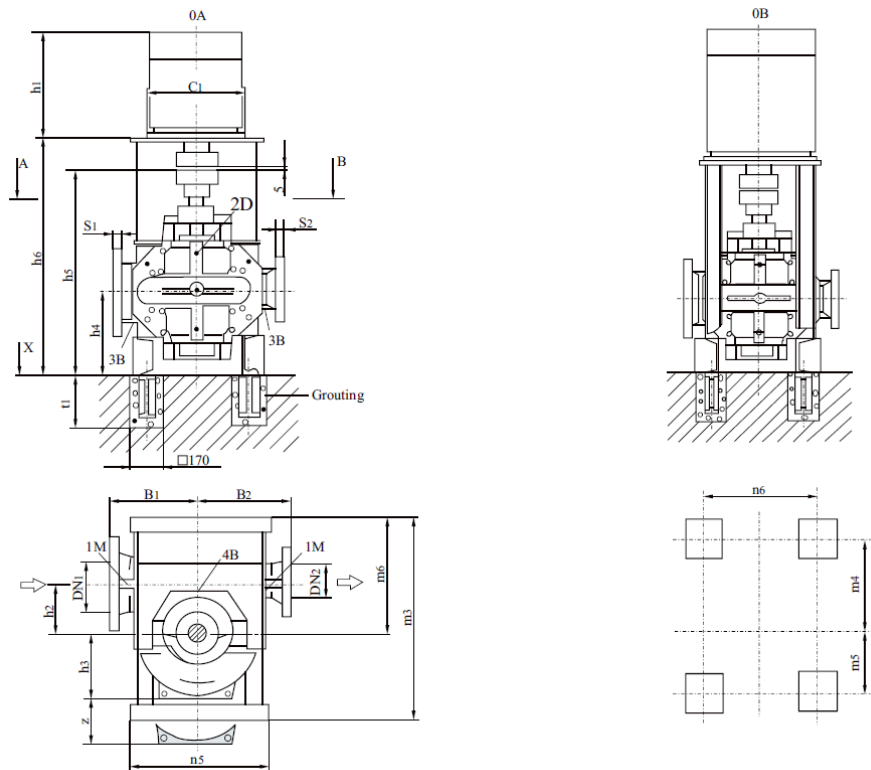
Connecting Thread Size

1M	Piexometer	R1/2
2D	Exhaust hole	R1/2
3B	Drainage hole	R1/2
4B	Drainage hole for leaked liquid	R3/4

External Dimension

Pump Type	Flange Dimension (mm)				Pump Dimension (mm)						Weight (kg)			
	DN ₁	DN ₂	S ₁	S ₂	B ₁	B ₂	h ₂	h ₃	h ₄	h ₅	z	Pump	Water Content	
80-220	125	80	26	24	300	300	140	168	320	735	340	181	10	
80-280								190				380	194	15
80-350								225				450	204	20

■ ■ ASNV TYPE PUMP INSTALLATION DIMENSION



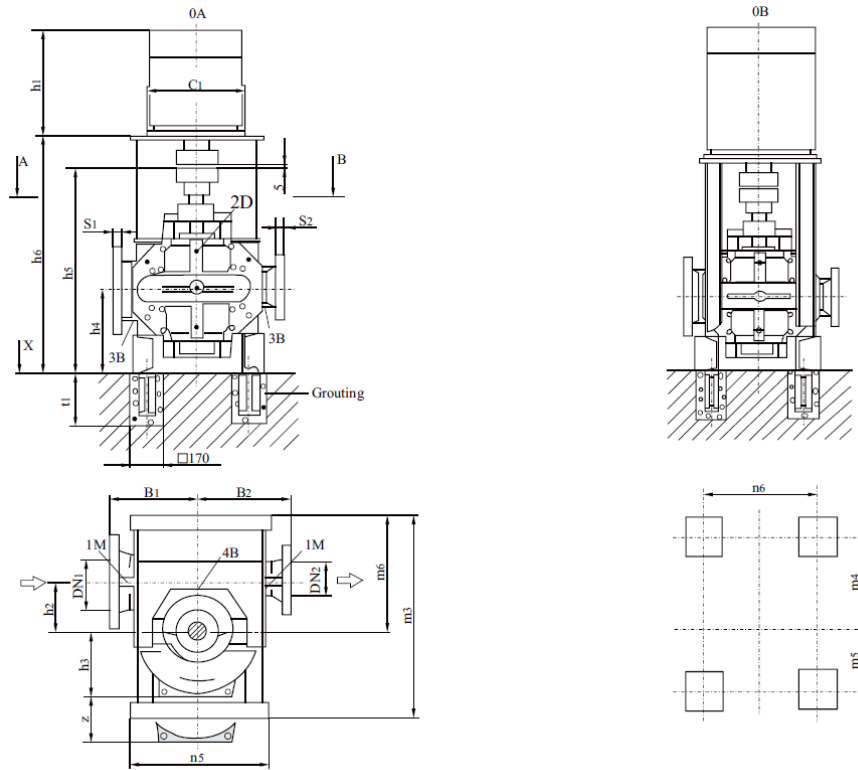
Connecting Thread Size

1M	Piexometer	R1/2
2D	Exhaust hole	R1/2
3B	Drainage hole	R1/2
4B	Drainage hole for leaked liquid	R3/4

External Dimension

Pump Type	Flange Dimension (mm)				Pump Dimension (mm)						Weight (kg)			
	DN ₁	DN ₂	S ₁	S ₂	B ₁	B ₂	h ₂	h ₃	h ₄	h ₅	z	Pump	Water Content	
100-260	150	100	28	24	330	330	170	195	300	715	450	207	20	
100-320								225				390	223	25
100-400								260				520	241	30

■ ■ ASNV TYPE PUMP INSTALLATION DIMENSION



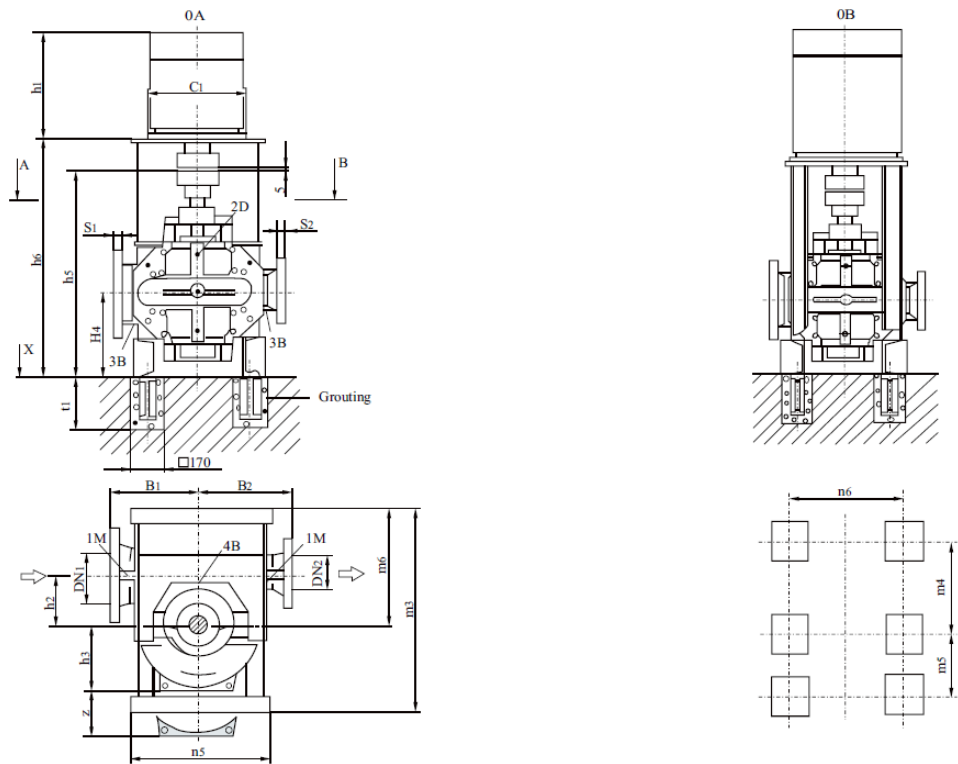
Connecting Thread Size

1M	Plexometer	R1/2
2D	Exhaust hole	R1/2
3B	Drainage hole	R1/2
4B	Drainage hole for leaked liquid	R3/4

External Dimension

Pump Type	Flange Dimension (mm)						Pump Dimension (mm)					Weight (kg)	
	DN ₁	DN ₂	S ₁	S ₂	B ₁	B ₂	h ₂	h ₃	h ₄	h ₅	z	Pump	Water Content
125-240	200	125	30	26	370	370	200	210	355	870	420	310	35
125-300								230			460	350	40
125-380								260			520	370	45
125-480					450	450		305			610	500	55

■ ■ ASNV TYPE PUMP INSTALLATION DIMENSION



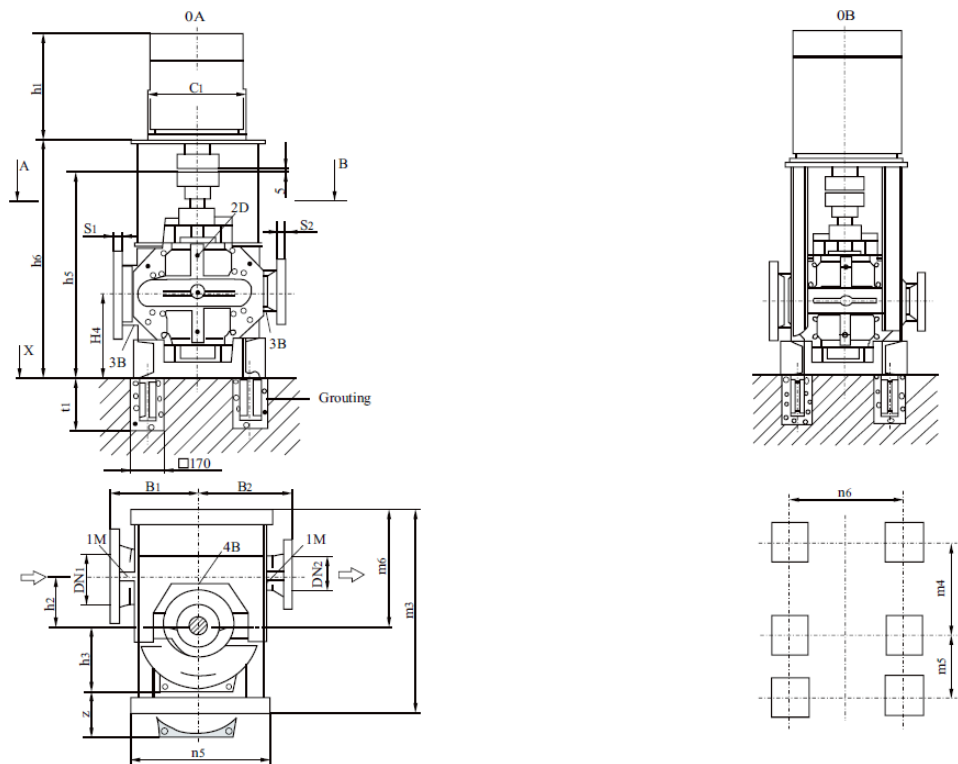
Connecting Thread Size

1M	Piexometer	R1/2
2D	Exhaust hole	R1/2
3B	Drainage hole	R1/2
4B	Drainage hole for leaked liquid	R3/4

External Dimension

Pump Type	Flange Dimension (mm)				Pump Dimension (mm)							Weight (kg)	
	DN ₁	DN ₂	S ₁	S ₂	B ₁	B ₂	h ₂	h ₃	h ₄	h ₅	z	Pump	Water Content
150-280	200	150	30	28	400	400	200	245	355	870	490	347	50
150-350					450	450	245	265			530	410	60
150-450								305	400	990	610	520	75
150-570					600	500	300	370			740	740	90

■ ■ ASNV TYPE PUMP INSTALLATION DIMENSION



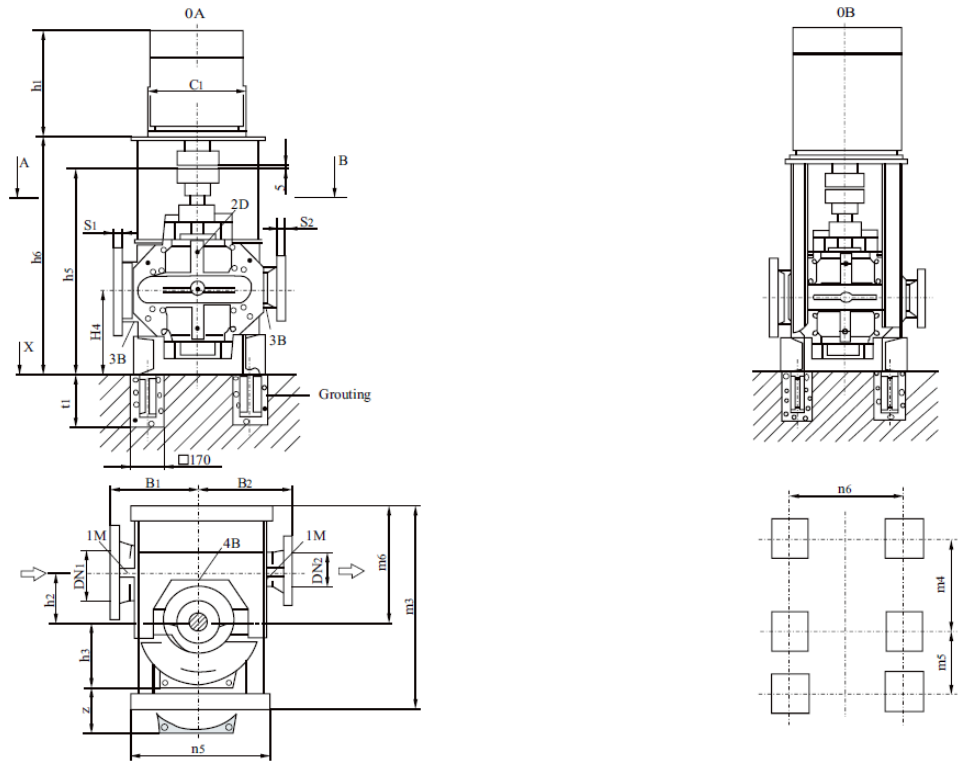
Connecting Thread Size

1M	Piexometer	R1/2
2D	Exhaust hole	R1/2
3B	Drainage hole	R1/2
4B	Drainage hole for leaked liquid	R3/4

External Dimension

Pump Type	Flange Dimension (mm)				Pump Dimension (mm)							Weight (kg)	
	DN ₁	DN ₂	S ₁	S ₂	B ₁	B ₂	h ₂	h ₃	h ₄	h ₅	z	Pump	Water Content
200-340	250	200	32	30	450	450	240	285	400	990	570	590	80
200-410					500	500		310			620	620	95
200-530					600		300	370	440	1095	740	840	115
200-660					650	550	350	430			860	1000	180

■ ■ ASNV TYPE PUMP INSTALLATION DIMENSION



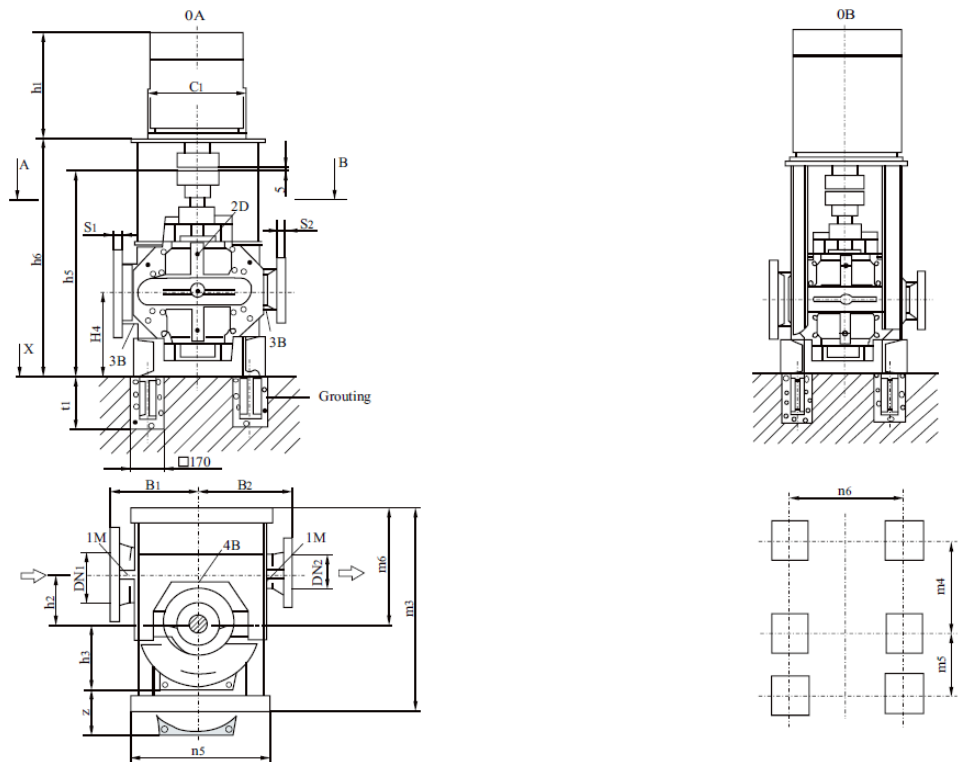
Connecting Thread Size

1M	Piexometer	R1/2
2D	Exhaust hole	R1/2
3B	Drainage hole	R1/2
4B	Drainage hole for leaked liquid	R3/4

External Dimension

Pump Type	Flange Dimension (mm)				Pump Dimension (mm)							Weight (kg)	
	DN ₁	DN ₂	S ₁	S ₂	B ₁	B ₂	h ₂	h ₃	h ₄	h ₅	z	Pump	Water Content
250-390	300	250	36	32	500	500	300	320	440	1095	640	810	125
250-470					550	550		355	500	1230	710	930	145
250-610					650		350	415		830	1400	180	

■ ■ ASNV TYPE PUMP INSTALLATION DIMENSION



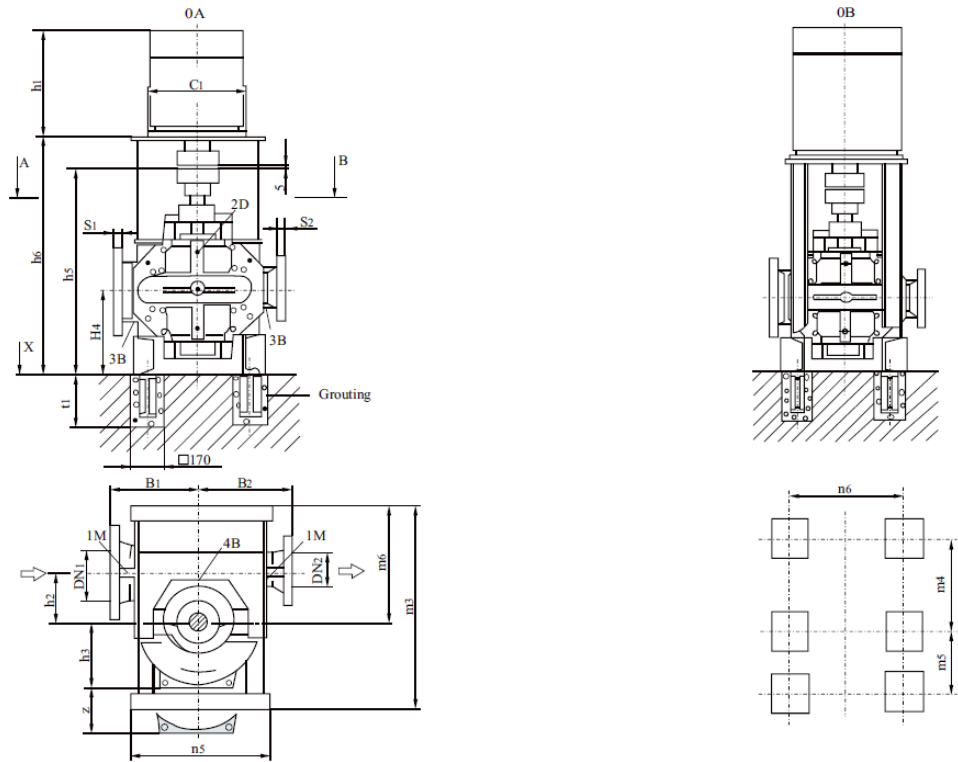
Connecting Thread Size

1M	Piexometer	R1/2
2D	Exhaust hole	R1/2
3B	Drainage hole	R1/2
4B	Drainage hole for leaked liquid	R3/4

External Dimension

Pump Type	Flange Dimension (mm)				Pump Dimension (mm)							Weight (kg)	
	DN ₁	DN ₂	S ₁	S ₂	B ₁	B ₂	h ₂	h ₃	h ₄	h ₅	z	Pump	Water Content
300-330	350	300	40	36	550	500	300	360	440	1095	720	900	100
300-450	400				650	550	350	365	500	1230	730	1400	190
300-550			44		700	650		430	570	1380	860	2097	225

■ ■ ASNV TYPE PUMP INSTALLATION DIMENSION



Connecting Thread Size

1M	Piexometer	R1/2
2D	Exhaust hole	R1/2
3B	Drainage hole	R1/2
4B	Drainage hole for leaked liquid	R3/4

External Dimension

Pump Type	Flange Dimension (mm)				Pump Dimension (mm)							Weight (kg)	
	DN ₁	DN ₂	S ₁	S ₂	B ₁	B ₂	h ₂	h ₃	h ₄	h ₅	z	Pump	Water Content
350-380	400	350	44	40	650	550	350	410	500	1230	820	1200	160
350-440					750	650	400	465	570	1380	930	1450	240
350-520					700			420			840	1800	290

■ ■ RECOMMENDED RESERVATION FOR 2-YEARS USE

Part Name	Quantity of Pump (Including Standby Pump)							
	1	2	3	4	5	6	8	≥10
Quantity of Spare Parts								
Impeller	-	1	1	2	2	3	3	4
Shaft	-	1	1	2	2	3	3	4
Seal ring (set)	1	1	2	2	3	3	4	5
Bearing body A	1	1	1	2	2	3	4	5
Bearing body B	1	1	1	2	2	3	4	5
Bearing gland (set)	1	1	1	2	2	3	4	5
Bearing baffle ring	-	1	1	2	2	3	3	4
Bearing baffle ring	-	1	1	2	3	4	4	5
Postal pin of clutch (set)	2	4	6	6	8	8	8	10
Water baffle ring	1	1	1	2	2	3	3	5
Bearing (pair)	1	1	2	2	3	4	4	5
Round nut (set)	-	1	1	1	2	2	3	3
Shaft used elastic baffle ring	2	2	2	2	2	4	4	5
Frame oil seal	1	1	1	2	2	3	4	5
O-ring of muff (set)	1	2	3	4	5	6	8	10
O-ring of bearing gland (set)	1	2	3	4	5	6	8	10
O-ring of seal body (set)	1	2	3	4	5	6	8	10
Impeller key	-	?	1	1	1	1	2	2
Clutch key	-	?	1	1	1	1	2	2
Packing seal body (set)	1	1	1	2	2	3	4	6
Packing ring (set)	2	2	2	3	3	3	4	6
Packing muff (set)	2	2	2	3	3	3	4	6
Packing gland (set)	2	2	3	3	4	5	6	6
Packing (set)	2	4	4	5	6	6	8	10
Muff of mechanical seal (set)	2	2	2	3	3	3	4	6
Seal body of mechanical seal (set)	1	1	1	2	2	3	4	5
Gland of mechanical seal (set)	2	2	3	3	4	5	6	6
Baffle ring of mechanical seal (set)	-	1	1	2	2	3	3	4
Mechanical seal (set)	1	1	1	2	2	3	4	6
Fish paper (some)	2	4	4	5	6	7	8	10

It is worth recommending to get spare parts available in order to avoid a shut-down period which is possibly long and of a high cost, especially for an important work of repair.

■ ■ NOTICES AT ORDER

1.) Parameters necessary to be submitted at order:

- Pump model and the flow, head (including the system loss), NPSHr at the point of the desired working condition.
- Type of shaft seal (must be noted either mechanical or packing seal and, if not, delivery of the mechanical seal structure will be made).
- Moving direction of the pump (must be noted in case of a CCW installation and, if not, delivery of a clockwise installation will be made).
- Parameters of the motor (Y series motor of IP44 is generally used as the low-voltage motor with a power <200KW and, when to use a high voltage one, please note its voltage, protective rating, insulation class, way of cooling, power, number of polarity and manufacturer).
- The materials of pump casing, impeller, shaft etc. parts. (delivery with the standard allocation will be made if without being noted).
- Medium temperature (delivery upon a constant-temperature medium will be made if without being noted).
- When the medium to be transported is corrosive or contains solid grains, please note the features of it.

2.) Model selection

- The performance parameters listed in the catalog are used for reference for users, without being limited thereby, to select the model only and we can provide users with the right product upon the actual required flow, head and working point.