



TKW (Horizontal Type)



TKG (Vertical Type)

Inline Centrifugal Pump



<https://btstech.pl>
+48 22 390 63 48

sklep@btstech.pl

<https://btstech.pl>

Contents

01	Product overview
02	Purpose
02	Working conditions
03	Characteristic
04	Advantage
05	Model significance
05	Structure
06	Structure description
07	Spectrum
09	Property parameter table
18	Performance graphs
35	TKG Vertical installation size diagram
43	TKW Horizontal installation size diagram
51	TKG Vertical foundation diagram
52	TKW Horizontal base map
53	TKG Vertical installation
54	TKW Horizontal installation
55	Pump instructions
61	(Five)The check list of the 5G TKG /series pump model an ISG/model

We provide you
with the
professional
service

PRODUCT INTRODUCTION

The standard G5 TKG series vertical inline pump and TKW series horizontal inline pump. It's an energy-efficient product, select and refer to the excellent hydraulic model domestic, designed based on the code of ISO28528 and JB/T53058. Reasonable structure, beautiful appearance, stable performance, small vibration, low noise, and long life.

Catalog TKW/TKG

fifth-generation standard type pipe centrifugal pump

FUNCTION

The pumps are suitable for city water supply and drainage, high-rise building water booster, garden, fire fighting, hospitals, schools, metallurgy, chemical industry, restaurant, hotel and petroleum, paper making, pharmacy and air-condition for transporting the circulation hot and cold water.

WORKING CONDITION

1.Speed

2960r/min, 1480r/min, or 980r/min, 740r/min, frequency conversion as client's requirement.

2.Flow

1.6~1400 (3600) m³/h

3.Head

5~150m

4.Liquid Temperature

-10~80 °C .If temperature>80~180 °C , can add cooling system. Please note that temperature >180°C in the order, we can design the high temperature model pump.

5.Ambient Temperature

<40°C; Relative Humidity: <95%

6.article content in the liquid

Particle content in the liquid not more than 0.1%, size <0.2mm. If out of this range, please indicate in the order, we will use the abrasion resistant mechanical seal.

7.Max. Operating Pressure

Pump caliber ≤ 200mm, the pressure is 1.6Mpa;
Pump caliber ≥ 250mm, the pressure is 1.0Mpa.

8.Inlet/Outlet Flange

PN16-GB/T17241.6 standard.



CHARACTERISTIC

- TKG Pump, vertical structure, inlet and outlet of the same diameter and located in the same center of the horizontal line, beautiful appearance, small footprint, low investment, installation and maintenance is extremely convenient.
- TKW Pump horizontal structure, inlet and outlet of the same caliber, compact appearance, small footprint, low investment, installation and maintenance is extremely convenient.
- Motor and Pump shares one shaft, concentricity good, small vibration, low noise, operate steadily.
- Shaft seal is mechanical seal. As client's condition, the rotor ring and stator ring can be hard ally, ceramic, tungsten carbide, silicon carbide, graphite and etc.
- As the client's requirement, pumps can be series connection for pressure boosting or parallel connection for increasing flow.
- TKG pump can be installed vertical or horizontal as the pipe layout.
- Perfect design, It can ensure no leakage, long-life operation, save the operation management costs 50%~70%.

ADVANTAGE

- ① Motor and Pump shares one shaft, concentricity good, small vibration, low noise, operate steadily.
- ② TKG Pump, vertical structure, inlet and outlet of the same diameter and located in the same center of the horizontal line, flow unimpeded, small lose, installation is very convenient.
- ③ TKW Pump horizontal structure, inlet and outlet of the same caliber, flow unimpeded, small lose, installation is very convenient.
- ④ Select the different castings and seals, pump can be delivered clear water, warm water, hot water, and other different liquids.
- ⑤ Select the Y2 and YX3 series energy-efficient motor, equipped with domestic, high-quality bearings, starting torque, high efficiency, small vibration, low noise, reliable operation and long service life.
- ⑥ Select the reasonable mechanical seal materials, ensure that pump can be operated for long-term without leakage. It can save the operation and management cost more than 50%.
- ⑦ Select imported mechanical seal, bearing, more reliable products.

MODEL SPECIFICATION

STRUCTURE

STRUCTURE DESCRIPTION

TKG/TKW 100 / 160 - 15 / 2

Motor Pole (2,4,6)
Motor Power (kW)
Impeller Nominal Diameter (mm)
Pump Inlet/Outlet Diameter (mm)
Standard Vertical Pump/
Standard Horizontal Pump

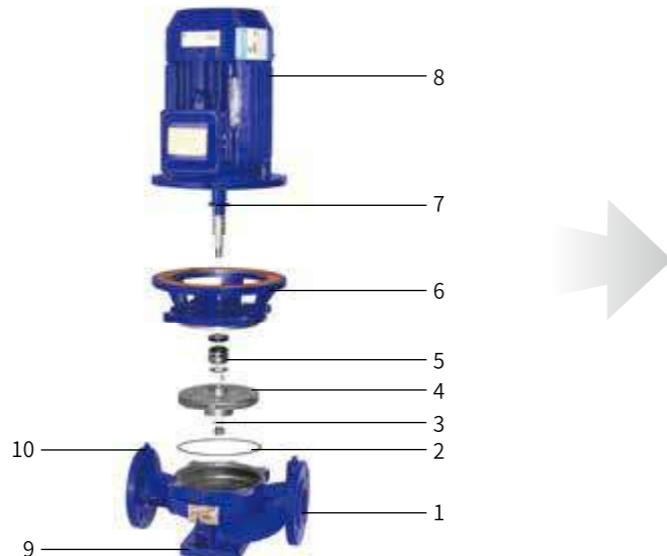
TKG/TKW pump equipped with EX motor,
the model will be TKBG/TKBW

TKG/TKW pump's material is stainless steel,
the model will be TKHG/TKHW

TKG/TKW pump delivered the hot water,
the model will be TKRG/TKRW

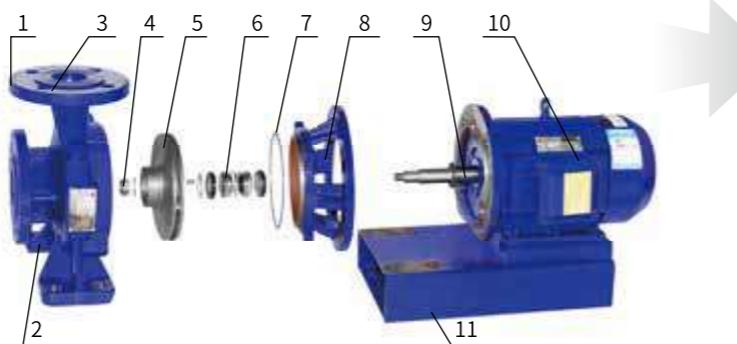
TKG/TKW pump's material is stainless steel,
equipped with EX motor, the model will be TKHGB/TKHWB

TKG VERTICAL PUMP



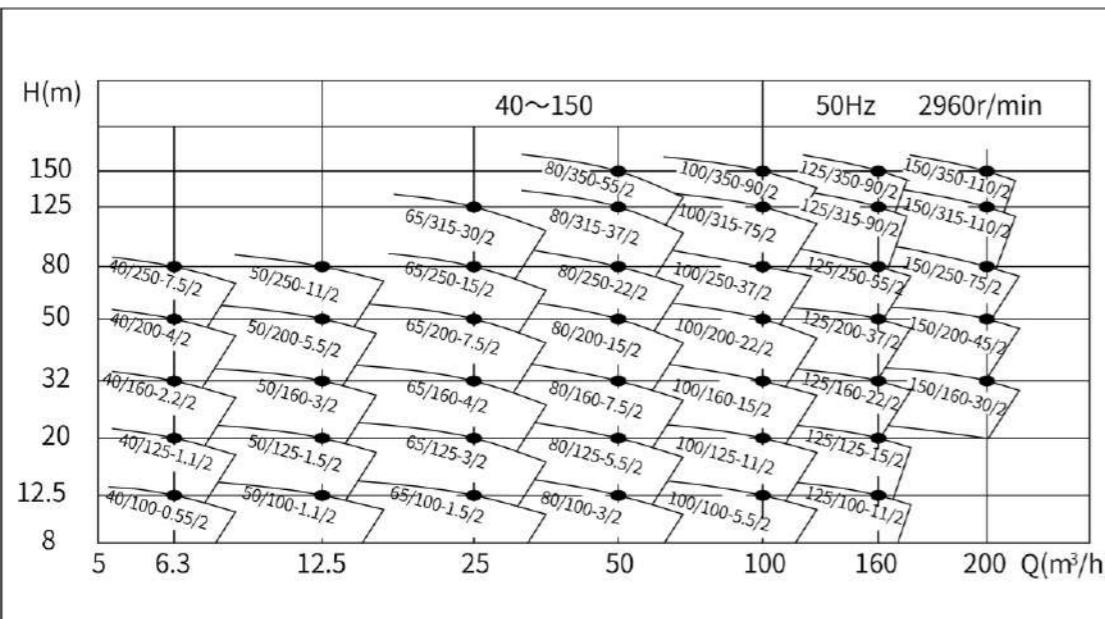
- ① Pump Body ---- Using the modern optimal hydraulic model design
- ② Seal Ring ---- high strength rubber parts
- ③ Impeller Nut ----High-quality carbon steel, corrosion-resistant stainless steel
- ④ Impeller ----Select the modern excellent hydraulic model
- ⑤ Mechanical Seal ----Rotor (stator) ring is made of Graphite, Hard Alloy
- ⑥ Pump Cover ----High-quality carbon steel, stainless steel, casting
- ⑦ Seal Circle ----High strength Rubber
- ⑧ Moto ----Y2 or YX3 series energy-efficient V1 motor
- ⑨ Drain Plug ----Empty the pump case once stopped
- ⑩ Air-out Plug ----Exclude the air in the casing

TKW HORIZONTAL PUMP

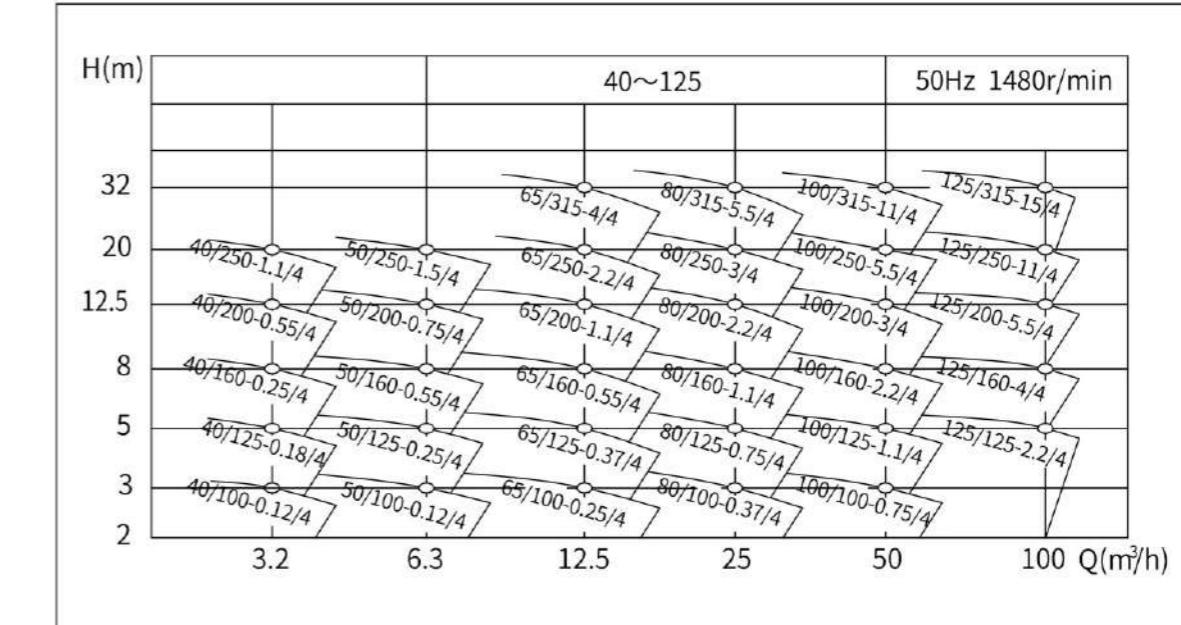
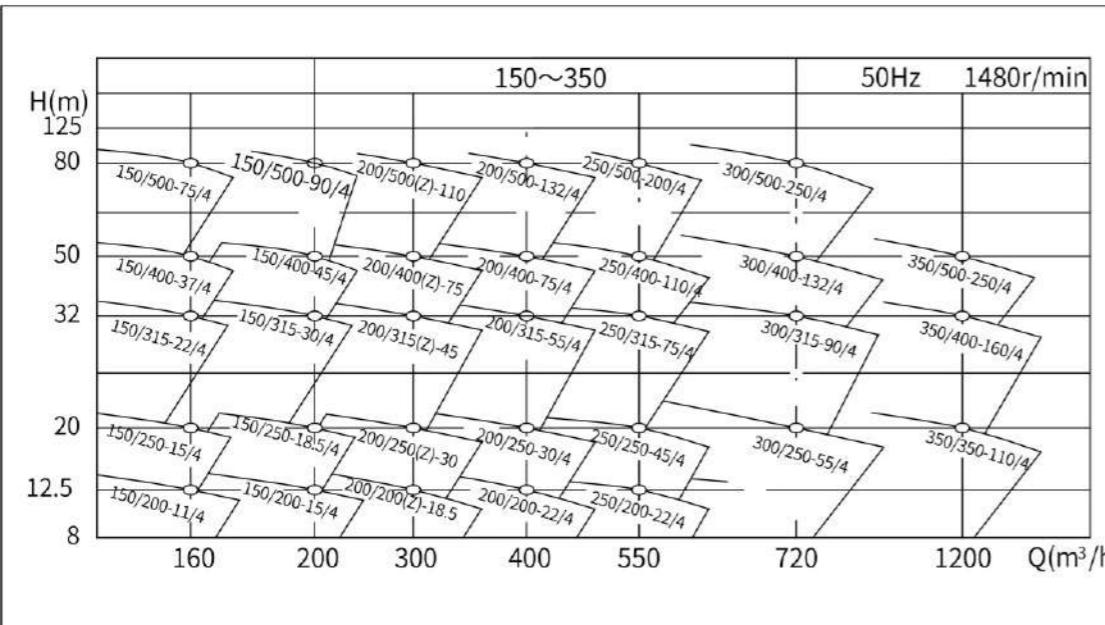
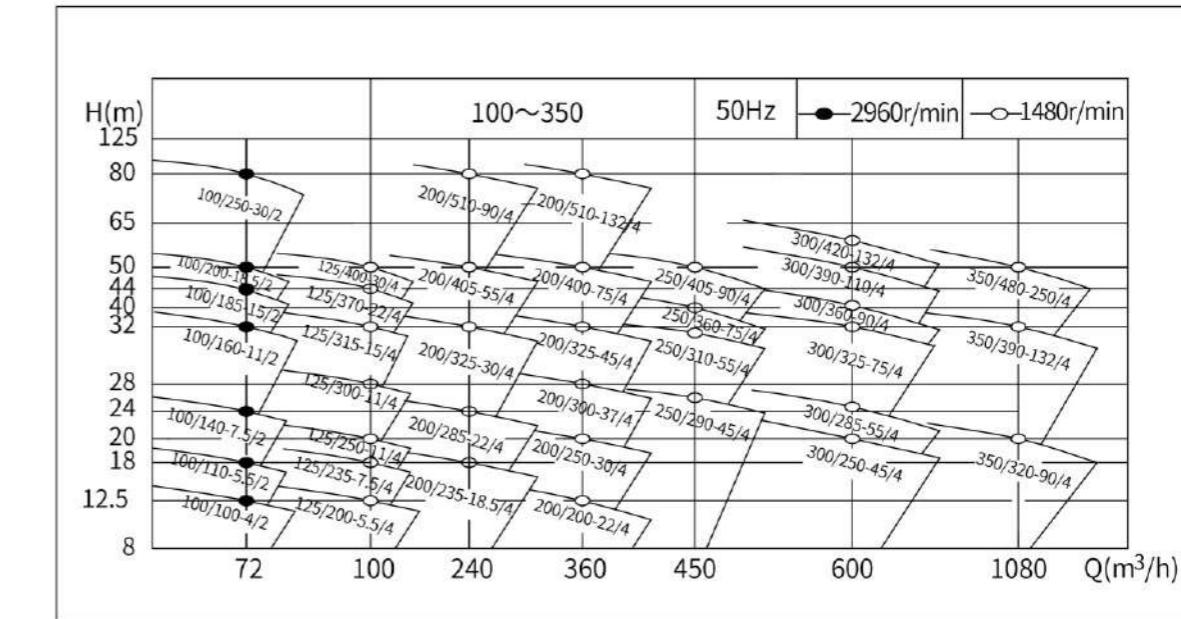


- ① Pump Body ---- Using the modern optimal hydraulic model design
- ② Seal Ring ---- high strength rubber parts
- ③ Impeller Nut ----High-quality carbon steel, corrosion-resistant stainless steel
- ④ Impeller ----Select the modern excellent hydraulic model
- ⑤ Mechanical Seal ----Rotor (stator) ring is made of Graphite, Hard Alloy
- ⑥ Pump Cover ----High-quality carbon steel, stainless steel, casting
- ⑦ Seal Circle ----High strength Rubber
- ⑧ Moto ----Y2 or YX3 series energy-efficient V1 motor
- ⑨ Drain Plug ----Empty the pump case once stopped
- ⑩ Air-out Plug ----Exclude the air in the casing
- ⑪ Air-out Plug ----Exclude the air in the casing----A fixed part of the pump to ensure the stability of the pump installation.

HYDRAULIC COVERAGE



HYDRAULIC COVERAGE



PERFORMANCE PARAMETER TABLE

Serial Number	Type	Capacity		Head (m)	Efficiency (%)	Speed (r/min)	Motor Power (Kw)	(NPSH) r	Weight (Kg)	Serial Number	Type	Capacity		Head (m)	Efficiency (%)	Speed (r/min)	Motor Power (Kw)	(NPSH) r	Weight (Kg)
		(m³/h)	(L/s)									(m³/h)	(L/s)						
001	20/110-0.37/2	1.8 2.5 3.3	0.50 0.69 0.92	15 15 13.5	25 34 35	2900	0.37	2.3	25	024	40/185-0.37/4	2.0 2.8 3.7	0.56 0.78 1.03	10.4 10 9.6	30	1450	0.37	2.5	30
002	20/160-1.1/2	1.8 2.5 3.3	0.50 0.69 0.92	33 32 29	19 25 24	2900	1.1	2.3	29	025	40/250-1.1/4	2.2 3.2 4.2	0.61 0.89 1.17	20.5 20 18.5	25	1450	1.1	2.5	52
003	25/110-0.55/2	2.8 4.0 5.2	0.78 1.11 1.44	16 15 13.5	34 42 41	2900	0.55	2.3	26	026	40/235-0.75/4	2.0 2.8 3.7	0.56 0.78 1.03	16.4 16 15	25	1450	0.75	2.5	47
004	25/125-0.75/2	2.8 4.0 5.2	0.78 1.11 1.44	20.6 20 18	28 36 35	2900	0.75	2.3	27	027	40/220-0.55/4	1.6 2.3 3.4	0.44 0.64 0.94	13.2 13 12	24	1450	0.55	2.5	46
005	25/115-0.55/2	2.5 3.6 4.6	0.69 1.00 1.28	17 16 14.4	27 35 34	2900	0.55	2.3	26	028	40/100-1.1/2	8.8 12.5 16.3	2.44 3.47 4.53	13.6 12.5 11.3	55 62 60	2900	1.1	2.3	37
006	25/160-1.5/2	2.8 4.0 5.2	0.78 1.11 1.44	33 32 30	24 32 33	2900	1.5	2.3	39	029	40/90-0.75/2	8 11 14.5	2.22 3.06 4.03	11 10 9	53 60 58	2900	0.75	2.3	35
007	25/150-1.1/2	2.6 3.7 4.9	0.72 1.03 1.36	29 28 26	23 31 32	2900	1.1	2.3	34	030	40/125-1.5/2	8.8 12.5 16.3	2.44 3.47 4.53	21.5 20 17.8	49 58 57	2900	1.5	2.3	45
008	32/125-0.75/2	4.5 5.0 6.5	1.25 1.39 1.81	22 20 18	40 44 43	2900	0.75	2.3	29	031	40/110-1.1/2	8 11 14.5	2.22 3.06 4.03	17 16 14	48 57 56	2900	1.1	2.3	40
009	32/110-0.75/2	3.3 4.5 5.7	0.92 1.25 1.58	17 16 14	39 43 41	2900	0.75	2.3	28	032	40/160-3/2	8.8 12.5 16.3	2.44 3.47 4.53	33 32 30	45 52 51	2900	3	2.3	57
010	40/100-0.55/2	4.4 6.3 8.3	1.22 1.75 2.31	13.2 12.5 11.3	48 54 53	2900	0.55	2.3	32	033	40/150-2.2/2	8.2 11.7 15.2	2.28 3.25 4.22	29 28 26	44 51 50	2900	2.2	2.3	50
011	40/90-0.37/2	3.9 5.6 7.4	1.08 1.56 2.06	10.6 10 9	44 52 51	2900	0.37	2.3	30	034	40/140-1.5/2	7.3 10.4 13.5	2.03 2.89 3.75	23 22 20.5	43 50 50	2900	1.5	2.3	46
012	40/125-1.1/2	4.4 6.3 8.3	1.22 1.75 2.31	21 20 18	41 46 43	2900	1.1	2.3	33	035	40/200-5.5/2	8.8 12.5 16.3	2.44 3.47 4.53	52 50 48	38 46 46	2900	5.5	2.3	102
013	40/110-0.75/2	3.9 6.6 7.4	1.08 1.56 2.06	17.6 16.0 14.4	40 45 41	2900	0.75	2.3	32	036	40/185-4/2	8.3 11.7 15.3	2.31 3.25 4.25	45.8 44 42	37 45 45	2900	4	2.3	81
014	40/160-2.2/2	4.4 6.3 8.3	1.22 1.75 2.31	33 32 30	35 40 42	2900	2.2	2.3	48	037	40/170-3/2	7.5 10.6 13.8	2.08 2.94 3.83	40 38 35	36 44 44	2900	3	2.3	69
015	40/150-1.5/2	4.1 5.9 7.8	1.14 1.64 2.17	29 28 26.3	34 39 39	2900	1.5	2.3	45	038	40/250-11/2	8.8 12.5 16.3	2.44 3.47 4.53	82 80 77.5	29 38 42	2900	11	2.3	165
016	40/140-1.1/2	3.8 5.5 7.2	1.06 1.53 2.00	25.5 24.0 22.5	34 38 37	2900	1.1	2.3	39	039	40/235-7.5/2	8.2 11.6 15.2	2.28 3.22 4.22	71.5 70 68	29 38 41	2900	7.5	2.3	115
017	40/200-4/2	4.4 6.3 8.3	1.22 1.75 2.31	51 50 48	26 33 32	2900	4	2.3	75	040	40/220-7.5/2	7.6 10.8 14	2.11 3.00 3.89	61.5 60 58	28 37 40	2900	7.5	2.3	114
018	40/185-3/2	4.1 5.9 7.8	1.14 1.64 2.17	45 44 42	26 31 30	2900	3	2.3	62	041	50/100-1.1/2	8.8 12.5 16.3	2.44 3.47 4.53	13.6 12.5 11.3	55 62 60	2900	1.1	2.3	37
019	40/170-2.2/2	3.7 5.3 7.0	1.03 1.47 1.94	38 36 34.5	24 29 28	2900	2.2	2.3	52	042	50/90-0.75/2	8 11 14.5	2.22 3.06 4.03	11 10 9	53 60 58	2900	0.75	2.3	35
020	40/250-7.5/2	4.4 6.3 8.3	1.22 1.75 2.31	82 80 74	24 28 28	2900	7.5	2.3	106	043	50/125-1.5/2	8.8 12.5 16.3	2.44 3.47 4.53	21.5 20 17.8	49 58 57	2900	1.5	2.3	45
021	40/230-5.5/2	4.1 5.9 7.8	1.14 1.64 2.17	72 70 65	24 28 27	2900	5.5	2.3	100	044	50/110-1.1/2	8 11 14.5	2.22 3.06 4.03	17 16 14	48 57 56	2900	1.1	2.3	40
022	40/220-4/2	3.8 5.5 7.2	1.06 1.53 2.00	61.5 60 56	23 27 26	2900	4	2.3	77	045	50/160-3/2	8.8 12.5 16.3	2.44 3.47 4.53	33 32 30	45 52 51	2900	3	2.3	57
023	40/200-0.55/4	2.2 3.2 4.2	0.61 0.89 1.17	13 12.5 12	31 31 31	1450	0.55	2.5	38	046	50/150-2.2/2	8.2 11.7 15.2	2.28 3.25 4.22	29 28 26	44 51 50	2900	2.2	2.3	50

PERFORMANCE PARAMETER TABLE

Serial Number	Type	Capacity		Head (m)	Efficiency (%)	Speed (r/min)	Motor Power (Kw)	(NPSH) r	Weight (Kg)
---------------	------	----------	--	----------	----------------	---------------	------------------	----------	-------------

Catalog TKW/TKG

fifth-generation standard type pipe centrifugal pump

PERFORMANCE PARAMETER TABLE

Serial Number	Type	Capacity		Head (m)	Efficiency (%)	Speed (r/min)	Motor Power (Kw)	(NPSH) _r	Weight (Kg)	Serial Number	Type	Capacity		Head (m)	Efficiency (%)	Speed (r/min)	Motor Power (Kw)	(NPSH) _r	Weight (Kg)
		(m ³ /h)	(L/s)									(m ³ /h)	(L/s)						
093	65/200-1.1/4	7.5 12.5 15	2.08 3.47 4.17	13.2 12.5 11.8	54	1450	1.1	2.5	55	116	65/285-30/2	31.0 44.5 58.0	8.61 12.4 16.1	103 101 97	42 53 56	2900	30	3	345
094	65/185-0.75/4	6.8 11.3 13.5	1.89 3.14 3.75	10.7 10.1 9.6	53	1450	0.75	2.5	50	117	65/270-22/2	29.0 41.0 53.6	8.06 11.4 14.9	98 85 83	40 51 54	2900	22	3	280
095	65/250-2.2/4	7.5 12.5 15	2.08 3.47 4.17	21 20 19.4	45	1450	2.2	2.8	80	118	80/100-3/2	35.0 50.0 65.0	9.72 13.9 18.1	13.8 12.5 10.0	67 73 70	2900	3	3	65
096	65/235-1.5/4	7 11.7 14.1	1.94 3.25 3.92	18.4 17.5 17	44	1450	1.5	2.8	70	119	80/90-2.2/2	31.3 44.7 58.0	8.69 12.4 16.1	11 10 8	66 72 69	2900	2.2	3	55
097	65/220-1.1/4	6.1 10.2 12.3	1.69 2.83 3.42	14.1 13.4 13	43	1450	1.1	2.8	65	120	80/125-5.5/2	35.0 50.0 65.0	9.72 13.9 18.1	22 20 17	68 73 70	2900	5.5	3	105
098	65/315-4/4	7.5 12.5 15	2.08 3.47 4.17	32.3 32 31.5	36	1450	4	2.8	90	121	80/110-4/2	31.3 45.0 58.0	8.69 12.5 16.1	17.5 16.0 13.6	66 71 69	2900	4	3	85
099	65/300-3/4	7 11.7 14	1.94 3.25 3.89	28.5 28 27.5	36	1450	3	2.8	85	122	80/160-7.5/2	35.0 50.0 65.0	9.72 13.9 18.1	35 32 28	63 71 70	2900	7.5	3	110
100	65/285-3/4	6.1 10.1 12.1	1.69 2.81 3.36	21.5 21 20.5	34	1450	3	2.8	83	123	80/150-7.5/2	32.7 46.7 61.0	9.08 13.0 16.9	30.6 28 25	62 70 69	2900	7.5	3	108
101	65/100-3/2	35.0 50.0 65.0	9.72 13.9 18.1	13.8 12.5 10.0	67	2900	3	3	65	124	80/140-5.5/2	30.0 43.3 56.3	8.33 12.0 15.6	27 24 20	61 69 68	2900	5.5	3	100
102	65/90-2.2/2	31.3 44.7 58.0	8.69 12.4 16.1	11 10 8	66	2900	2.2	3	55	125	80/200-15/2	35.0 50.0 65.0	9.72 13.9 18.1	53.3 50 46	55 67 68	2900	15	3	180
103	65/125-5.5/2	35.0 50.0 65.0	9.72 13.9 18.1	22 20 17	68	2900	5.5	3	105	126	80/185-11/2	32.8 47.0 61.0	9.11 13.1 16.9	47 44 40	54 66 67	2900	11	3	170
104	65/110-4/2	31.3 45.0 58.0	8.69 12.5 16.1	17.5 16.0 13.6	66	2900	4	3	85	127	80/170-7.5/2	30.5 43.0 43.5	8.47 12.1 15.7	40.6 38.0 33.4	53 65 67	2900	7.5	3	120
105	65/160-7.5/2	35.0 50.0 65.0	9.72 13.9 18.1	35 32 28	63	2900	7.5	3	110	128	80/250-22/2	35.0 50.0 65.0	9.72 13.9 18.1	83 80 72	52 60 62	2900	22	3	245
106	65/150-7.5/2	32.7 46.7 61.0	9.08 13.0 16.9	30.6 28 25	62	2900	7.5	3	108	129	80/235-18.5/2	32.5 46.7 61.0	9.03 13.0 16.9	73 70 64	52 59 60	2900	18.5	3	215
107	65/140-5.5/2	30.0 43.3 56.3	8.33 12.0 15.6	27 24 20	61	2900	5.5	3	100	130	80/220-15/2	30.0 43.3 56.0	8.33 12.0 15.6	63 60 58	51 58 59	2900	15	3	190
108	65/200-15/2	35.0 50.0 65.0	9.72 13.9 18.1	53.3 50 46	55	2900	15	3	180	131	80/315-37/2	35.0 50.0 65.0	9.72 13.9 18.1	128 125 122	43 54 57	2900	37	3	360
109	65/185-11/2	32.8 47.0 61.0	9.11 13.1 16.9	47 44 40	54	2900	11	3	170	132	80/300-30/2	32.5 46.5 60.5	9.03 12.9 16.8	116 113 110	42 53 56	2900	30	3	345
110	65/170-7.5/2	30.5 43.5 56.5	8.47 12.1 15.7	40.6 38.0 33.4	53	2900	7.5	3	120	133	80/285-30/2	31.0 44.5 58.0	8.61 12.4 16.1	103 101 97	42 53 56	2900	30	3	345
111	65/250-22/2	35.0 50.0 65.0	9.72 13.9 18.1	83 80 72	52	2900	22	3	245	134	80/270-22/2	29.0 41.0 53.6	8.06 11.4 14.9	98 85 83	40 51 54	2900	22	3	280
112	65/235-18.5/2	32.5 46.7 61.0	9.03 13.0 16.9	73 70 60	52	2900	18.5	3	215	135	80/125-0.75/4	15 25 30	4.17 6.94 8.33	5.6 5 4.5	70 70 70	1450	0.75	2.8	50
113	65/220-15/2	30.0 43.3 56.0	8.33 12.0 15.6	63 60 54	51	2900	15	3	190	136	80/110-0.55/4	13 22 26	3.61 6.06 7.25	4.3 3.8 3.4	65 65 65	1450	0.55	2.8	45
114	65/315-37/2	35.0 50.0 65.0	9.72 13.9 18.1	128 125 122	43 54 57	2900	37	3	360	137	80/160-1.1/4	15 25 30	4.17 6.94 8.33	9 8 7.2	68 68 68	1450	1.1	2.8	60
115	65/300-30/2	32.5 46.5 60.5	9.03 12.9 16.8	116 113 110	42 53 56	2900	30	3	345	138	80/150-0.75/4	13 21.6 25.9	3.61 6.6 7.19	6.8 6 5.4	65 65 65	1450	0.75	2.8	55

Catalog TKW/TKG

fifth-generation standard type pipe centrifugal pump

PERFORMANCE PARAMETER TABLE

Serial Number	Type	Capacity		Head (m)	Efficiency (%)	Speed (r/min)	Motor Power (Kw)	(NPSH) _r	Weight (Kg)
---------------	------	----------	--	----------	----------------	---------------	------------------	---------------------	-------------

Catalog TKW/TKG

fifth-generation standard type pipe centrifugal pump

PERFORMANCE PARAMETER TABLE

Serial Number	Type	Capacity		Head (m)	Efficiency (%)	Speed (r/min)	Motor Power (Kw)	(NPSH) r	Weight (Kg)	Serial Number	Type	Capacity		Head (m)	Efficiency (%)	Speed (r/min)	Motor Power (Kw)	(NPSH) r	Weight (Kg)
		(m³/h)	(L/s)									(m³/h)	(L/s)						
185	100/185-18.5/2	65.4 93.5 121.6	18.2 26.0 33.8	47.5 44.0 39.0	64 73 72	2900	18.5	4.0	215	208	100/285-5.5/4	24.3 40.5 48.6	6.75 11.3 13.5	22.3 21.0 19.1	60	1450	5.5	3	170
186	100/170-15/2	61 87 113	16.9 24.2 31.4	41 38 34	63 72 71	2900	15	4.0	200	209	125/100-11/2	96 160 192	26.7 44.4 53.3	13 12.5 12	78 82 84	2900	11	4.0	185
187	100/250-37/2	70 100 130	19.4 27.8 36.1	87 80 68	62 69 68	2900	37	4.0	350	210	125/90-7.5/2	86 143 172	23.9 39.7 47.8	10.4 10.0 9.6	.73 77 79	2900	7.5	4.0	135
188	100/235-30/2	65.4 93.5 121.6	18.2 26.0 33.8	76 70 59.5	61 68 67	2900	30	4.0	335	211	125/125-15/2	96 160 192	26.7 44.4 53.3	22.6 20.0 17.0	76 80 82	2900	15	4.0	230
189	100/220-30/2	61 87 113	16.9 24.2 31.4	65 60 51	60 67 66	2900	30	4.0	330	212	125/110-11/2	86 143 172	23.9 39.7 47.8	18 16 13.6	73 77 79	2900	11	4.0	220
190	100/315-75/2	70 100 130	19.4 27.8 36.1	132 125 114	55 66 67	2900	75	4.0	685	213	125/160-22/2	96 160 192	26.7 44.4 53.3	36 32 28	72 78 79	2900	22	4.0	270
191	100/300-55/2	66.5 95.0 123.6	18.5 26.4 34.3	119 113 104	55 66 67	2900	55	4.0	550	214	125/150-18.5/2	90 150 180	25.0 41.7 50.0	31.5 28.0 24.5	71 76 78	2900	18.5	4.0	235
192	100/285-45/2	63 90 117	17.5 25.0 32.5	106.6 101 92	54 65 66	2900	45	4.0	440	215	125/140-15/2	83 138 166	23.1 38.3 46.1	27 24 21	70 77 77	2900	15	4.0	215
193	100/270-37/2	58 82 107	16.1 22.8 29.7	90 85 76	52 63 64	2900	37	4.0	385	216	125/200-37/2	96 160 192	26.7 44.4 53.3	55 50 46	72 79 78	2900	37	5.0	400
194	100/350-90/2	70 100 130	19.4 27.8 36.1	156 150 140	57	2900	90	4.0	950	217	125/185-30/2	90 150 180	25.0 41.7 50.0	48.4 44.0 40.5	71 77 78	2900	30	5.0	380
195	100/330-75/2	65.4 93.5 121.6	18.2 26 33.8	148 142 135	75	2900	75	4.0	830	218	125/170-22/2	83 138 166	23.1 38.3 46.1	41.3 37.5 34.5	70 75 77	2900	22	5.0	330
196	100/310-55/2	61 87 113	16.9 24.2 31.4	142 135 128	75	2900	55	4.0	600	219	125/250-55/2	96 160 192	26.7 44.4 53.3	87 80 73	71 76 77	2900	55	4.5	590
197	100/125-1.1/4	30 50 60	8.33 13.89 16.67	6 5 4	73	1450	1.1	3	75	220	125/235-45/2	90 150 180	25.0 41.7 50.0	76 70 64	70 75 76	2900	45	4.5	500
198	100/110-1.1/4	26.8 44.6 53.5	7.44 12.4 14.9	4.8 4 3.2	73	1450	1.1	3	75	221	125/220-37/2	83 138 166	23.1 38.3 46.1	65 60 55	69 74 75	2900	37	4.5	435
199	100/160-2.2/4	30 50 60	8.33 13.89 16.67	9.2 8.0 6.8	73	1450	2.2	3	95	222	125/315-90/2	96 160 192	26.7 44.4 53.3	133 125 119	69 73 68	2900	90	4.5	810
200	100/150-1.5/4	26.7 44.5 53.4	7.42 12.4 14.8	7.3 6.3 5.4	71	1450	1.5	3	85	223	125/300-75/2	90 150 180	25.0 41.7 50.0	117 110 104.6	66 71 68	2900	75	4.5	725
201	100/200-3/4	30 50 60	8.33 13.89 16.67	13.5 12.5 11.8	72	1450	3.0	3	105	224	125/285-75/2	84 143 172	23.9 39.7 47.8	106.4 100.0 95.2	65 70 67	2900	75	4.5	720
202	100/185-2.2/4	26.7 44.6 53.5	7.42 12.4 14.9	10.7 9.9 9.4	71	1450	2.2	3	95	225	125/270-55/2	80.5 134 161	22.4 37.2 44.7	96 88 86	64 69 66	2900	55	4.5	600
203	100/250-5.5/4	30 50 60	8.33 13.9 16.7	21.3 20.0 19.0	66	1450	5.5	3	145	226	125/350-110/2	96 160 192	26.7 44.4 53.3	162 150 137	70 75 74	2900	110	4.5	1400
204	100-235-4/4	28 46.7 48.5	7.78 13.0 13.5	18.6 17.4 16.6	65	1450	4.0	3	120	227	125/330-90/2	90 150 180	25.0 41.7 50.0	148 135 128	69 74 74	2900	90	4.5	1100
205	100/220-3/4	24.2 40.4 48.5	6.72 11.2 13.5	13.9 13.1 12.4	63	1450	3.0	3	110	228	125/310-75/2	86 143 172	23.9 39.7 47.8	130 125 115	68 73 73	2900	75	4.5	850
206	100/315-11/4	30 50 60	8.33 13.89 16.67	34 32 30	61	1450	11	3	230	229	125/160-4/4	60 100 120	16.7 27.8 33.3	14.0 8 7	56 78 78	1450	4	3	125
207	100/300-7.5/4	28 46.7 56	7.78 13.0 15.6	29.6 27.9 26.1	61	1450	7.5	3	185	230	125/200-5.5/4	60 100 120	16.7 27.8 33.3	14.0 12.5 11.0	75 75 75	1450	5.5	3	155

Catalog TKW/TKG

fifth-generation standard type pipe centrifugal pump

PERFORMANCE PARAMETER TABLE

Serial Number	Type	Capacity		Head (m)	Efficiency (%)	Speed (r/min)	Motor Power (Kw)	(NPSH) r	Weight (K
---------------	------	----------	--	----------	----------------	---------------	------------------	----------	-----------

Catalog TKW/TKG

fifth-generation standard type pipe centrifugal pump

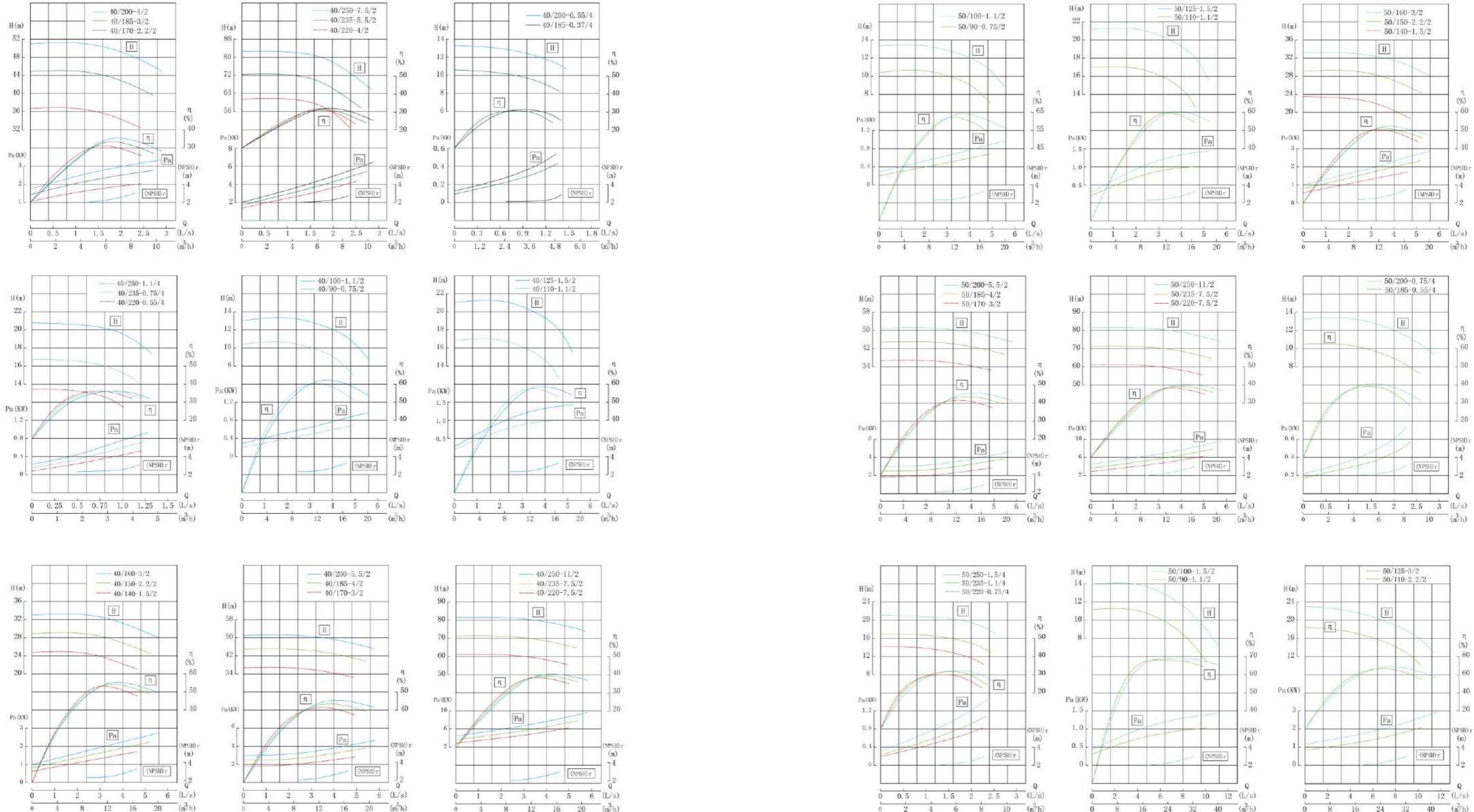
PERFORMANCE PARAMETER TABLE

Serial Number	Type	Capacity		Head (m)	Efficiency (%)	Speed (r/min)	Motor Power (Kw)	(NPSH) r	Weight (Kg)	Serial Number	Type	Capacity		Head (m)	Efficiency (%)	Speed (r/min)	Motor Power (Kw)	(NPSH) r	Weight (Kg)
		(m³/h)	(L/s)									(m³/h)	(L/s)						
277	150/400-45/4	140	38.9	53	69	1480	45	3.5	490	300	200/345-37/4	180	50.0	41.5	72	1480	37	4.0	470
		200	55.6	50	76					240		66.7	38	78	76				
		260	72.2	44	72					297		82.5	31	78	76				
278	150/370-37/4	131	36.4	46.6	68	1480	37	3.5	455	301	200/370-45/4	180	50.0	47.5	73	1480	45	4.0	540
		187	51.9	44.0	75					240		66.7	45	80	79				
		243	67.5	38.3	71					297		82.5	38	79	79				
279	150/345-30/4	122	33.9	40.5	67	1480	30	3.5	435	302	200/405-55/4	180	50.0	54	75	1480	55	4.0	640
		174	48.3	38.0	74					240		66.7	51	81	77				
		226	62.9	33.0	70					297		82.5	45	77	77				
280	150/320-22/4	112	31.1	34	65	1480	22	3.5	375	303	200/510-90/4	180	50.0	84	67	1480	90	4.2	710
		160	44.4	32	72					240		66.7	80	72	72				
		208	57.8	28	68					297		82.5	75	66	66				
281	150/510-90/4	140	38.9	84	64	1480	90	3.5	950	304	200/200-18.5/4	210	58.3	13.4	71	1480	18.5	4.0	400
		200	55.6	80	71					300		83.3	12.5	81	80				
		260	72.2	75	69					360		100.0	10.5	80	80				
282	150/475-75/4	131	36.4	73.0	63	1480	75	3.5	900	305	200/185-15/4	196	54.4	10.3	69	1480	15	4.0	380
		187	51.9	70.5	70					280		77.8	10.0	79	78				
		243	67.5	66.0	68					336		93.3	8.5	78	78				
283	150/440-55/4	122	33.9	65	62	1480	55	3.5	750	306	200/250-30/4	210	58.3	22.5	76	1480	30	4.0	480
		174	48.3	62	68					300		83.3	20.0	81	81				
		226	62.8	58	66					360		100.0	14.0	76	76				
284	150/410-45/4	112	31.1	56.5	60	1480	45	3.5	640	307	200/235-18.5/4	196	54.4	18.0	74	1480	18.5	4.0	400
		160	44.4	54.5	66					280		77.8	16.0	80	75				
		208	57.8	51.0	64					336		93.3	11.2	75	75				
285	200/200-15/4	140	38.9	13.8	68	1480	15	3.0	270	308	200/220-15/4	182	50.6	14.6	72	1480	15	4.0	385
		200	55.6	12.5	78					262		72.8	13.0	77	75				
		260	72.2	10.6	78					312		86.7	9.0	75	75				
286	200/185-11/4	125	34.7	11	66	1480	11	3.0	250	309	200/315-45/4	210	58.3	36	74	1480	45	4.0	550
		179	49.7	10	76					300		83.3	32	82	80				
		233	64.7	8.5	76					360		100.0	26	80	80				
287	200/250-18.5/4	140	38.9	21.8	74	1480	18.5	3.0	305	310	200/300-37/4	196	54.4	31.5	73	1480	37	4.0	530
		200	55.6	20.0	80					280		77.8	28.0	81	77				
		260	72.2	17.0	78					336		93.3	23.0	77	77				
288	200/235-15/4	129	35.8	18.5	73	1480	15	3.0	270	311	200/285-30/4	182	50.6	27.0	72	1480	30	4.0	500
		184	51.1	17.0	79					262		72.8	24.0	80	78				
		240	66.7	14.4	77					312		86.7	19.5	78	78				
289	200/220-11/4	116	32.5	15.2	72	1480	11	3.0	245	312	200/400-75/4	210	58.3	54.5	73	1480	75	4.0	830
		167	46.4	14.0	77					300		83.3	50.0	81	77				
		217	60.3	12.0	75					360		100.0	39.0	77	77				
290	200/315-30/4	140	38.9	33.8	71	1480	30	3.5	410	313	200/370-55/4	196	54.4	48	73	1480	55	4.0	680
		200	55.6	32.0	79					280		77.8	44	79	76				
		260	72.2	28.0	74					336		93.3	34	76	76				
291	200/300-22/4	131	36.4	29.5	70	1480	22	3.5	340	314	200/345-45/4	182	50.6	41.4	71	1480	45	4.0	580
		187	51.9	28.0	78					262		72.8	38.0	78	74				
		243	67.5	24.5	79					312		86.7	29.6	74	74				
292	200/285-18.5/4	121	33.6	25	70	1480	18.5	3.5	315	315	200/320-37/4	171	47.5	34.9	70	1480	37	4.0	550
		173	48.1	24	77					245		68.1	32.0	77	73				
</td																			

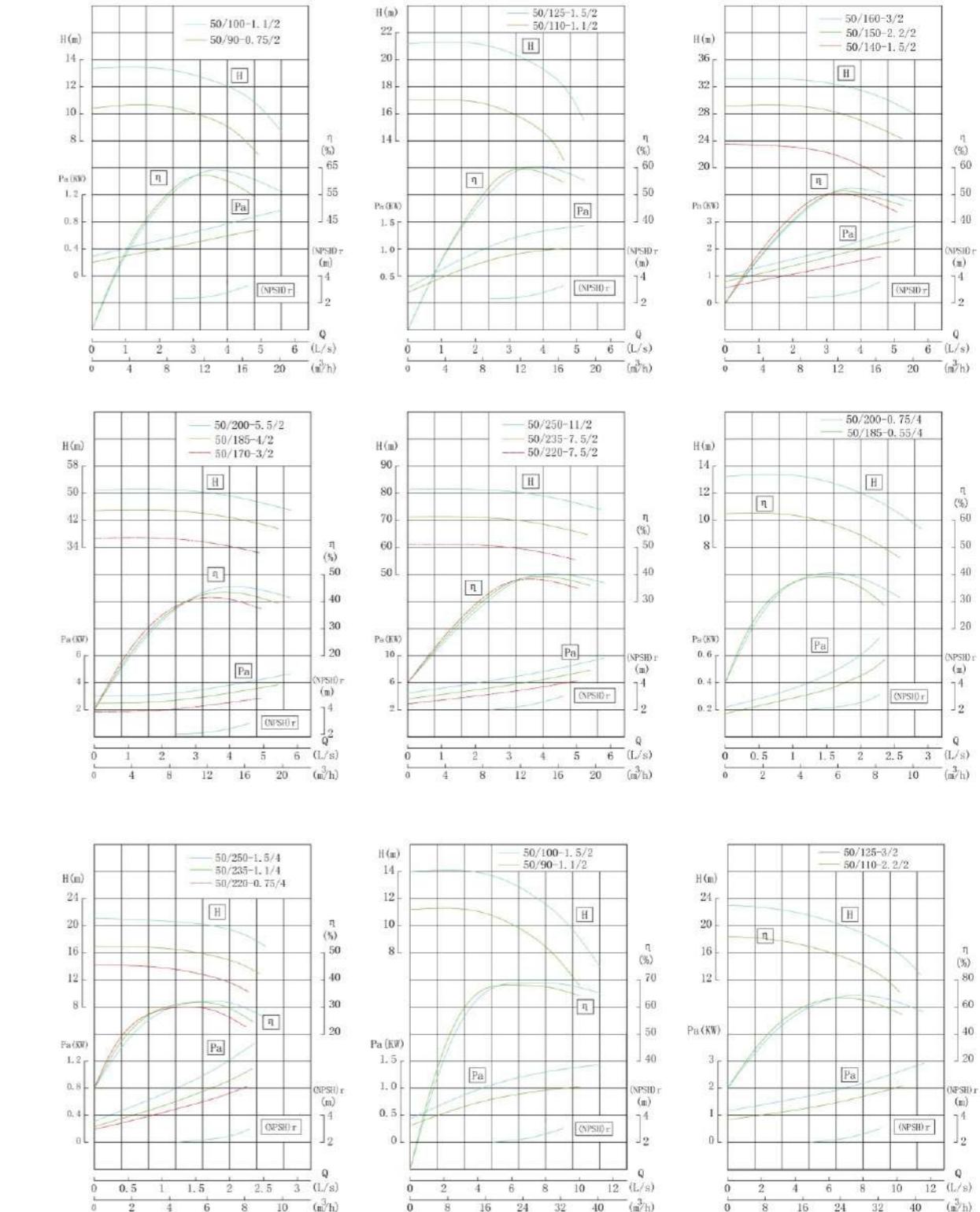
PERFORMANCE PARAMETER TABLE

Serial Number	Type	Capacity		Head (m)	Efficiency (%)	Speed (r/min)	Motor Power (kW)	(NPSH) _r	Weight (Kg)	Serial Number	Type	Capacity		Head (m)	Efficiency (%)	Speed (r/min)	Motor Power (kW)	(NPSH) _r	Weight (Kg)
		(m ³ /h)	(L/s)									(m ³ /h)	(L/s)						
369	300/420-132/4	420	116.7	59.0	74	1480	132	5.0	1725	394	300/435-220/4	560	90.3	65.0	73	220	5.5	2170	
		600	165.7	55.0	79							820	125.0	60.0	78				
		720	200	47.0	78							960	141.7	54.0	76				
370	300/250-55/4	500	138.9	23	80	1480	55	5.0	1000	395	300/410-160/4	530	94.2	54.5	72	160	5.5	1850	
		720	200.0	20	83							750	208.3	50.0	77				
		900	250	16	84							900	250.0	24.0	75				
371	300/235-45/4	460	127.8	20.2	78	1480	45	5.0	850	396	350/320-90/4	718	199.4	23.5	77	90	6.0	1500	
		657	182.5	17.5	81							1080	300.0	20.0	81				
		791	219.7	14.5	82							1345	373.6	18.0	79				
372	300/220-37/4	422	117.2	16.1	76	1480	37	5.0	750	397	350/305-75/4	663	184.2	20.0	75	75	5.5	1400	
		609	169.2	14.0	79							995	276.4	17.0	81				
		760	211.1	11.2	80							1245	345.8	14.0	79				
373	300/300-75/4	480	133.3	31	77	1480	75	5.0	1350	398	350/380-55/6	620	172.2	17.5	73	970	5.5	1250	
		720	200.0	28	81							931	258.6	15.0	81				
		900	250.0	25	77							1165	323.6	13.0	79				
374	300/280-75/4	444	123.3	26.5	76	1480	75	5.0	1350	399	350/390-132/4	718	199.4	36.4	78	1480	132	5.5	1750
		666	185.0	24	80							1080	300.0	32.0	83				
		833	231.4	21.5	76							1345	373.6	28.0	80				
375	300/260-55/4	415	115.3	23.0	75	1480	55	5.0	1170	400	350/360-110/4	663	184.2	30.5	75	1480	110	5.5	1700
		623	173.1	21.0	79							995	276.4	27.5	82				
		779	216.4	18.5	75							1245	345.8	24.0	79				
376	300/315-90/4	500	138.9	36	79	1480	90	5.0	1350	401	350/335-90/4	620	172.2	26.5	75	90	5.5	1500	
		720	200	32	82.5							931	258.6	24.0	81				
		900	250	26	84							1165	323.6	21.0	79				
377	300/295-75/4	460	127.8	30.5	76	1480	75	5.0	1300	402	350/420-160/4	718	199.4	42	77	1480	160	5.5	1870
		662	183.9	28.0	81							1080	300.0	37	83				
		791	219.7	23.5	76							1300	361.1	32	80				
378	300/270-55/4	423	117.5	25.5	74	1480	55	5.0	1080	403	350/405-132/4	642	178.3	35.7	77	1480	132	5.5	1800
		609	169.2	23.5	80							965	268.1	32.0	82				
		728	202.2	20.0	75							1200	333.3	27.0	80				
379	300/380-132/4	480	133.3	48	76	1480	132	5.0	1725	404	350/380-110/4	600	166.7	31.2	76	1480	110	5.5	1700
		720	200.0	44	84							900	250.0	28.0	80				
		900	250.0	34	82							1120	311.1	24.5	79				
380	300/360-110/4	444	123.3	41.4	73	1480	110	5.0	1620	405	350/480-250/4	718	199.4	54.7	77	1480	250	5.5	2600
		666	185.0	38.0	81							1080	300.0	50.0	82				
		833	231.4	30.0	79							1345	373.6	44.2	80				
381	300/325-90/4	409	113.6	35	72	1480	90	5.0	1400	406	350/460-200/4	663	184.2	48.3	76	1480	200	5.5	2100
		614	170.6	32	80							995	276.4	44.0	81				
		767	213.1	25	78							1245	345.8	37.0	78				
382	300/400-132/4	500	138.9	54.5	75	1480	132	5.5	1725	407	350/430-160/4	620	172.2	42.5	75	1480	160	5.5	2000
		720	200	50.0	81							931	258.6	38.0	80				
		900	250	42.0	78							1165	323.6	32.5	76				
383	300/370-110/4	460	127.8	47.0	74	1480	110	5.5	1620	408	350/350-110/4	1000	277.8	23	76	1480	110	6.0	1750
		662	183.9	44.0	80							1200	333.3	20	80				
		791	219.7	36.5	77							1450	402.8	16	77				
384	300/345-90/4	423	117.5	41.0	72	1480	90	5.5	1400	409	350/330-75/4	900	250	19	74	1480	75	6.0	1350
		609	169.2	38.0	78							1080	300	17	79				
		728	202.2	32.0	75							1300							

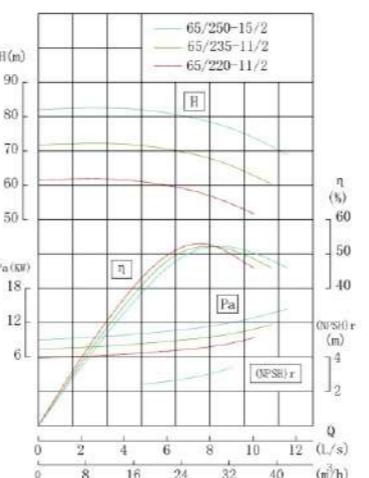
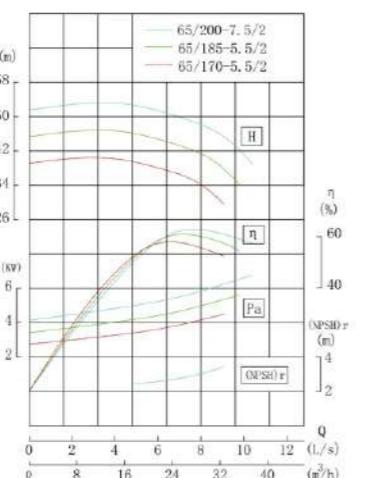
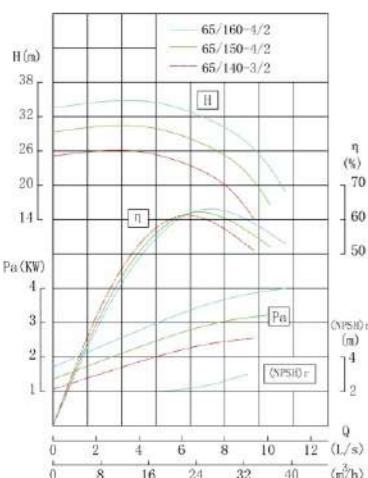
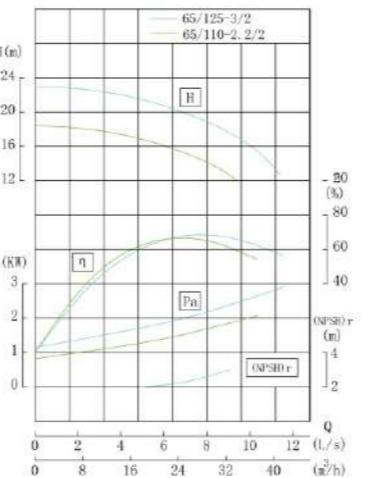
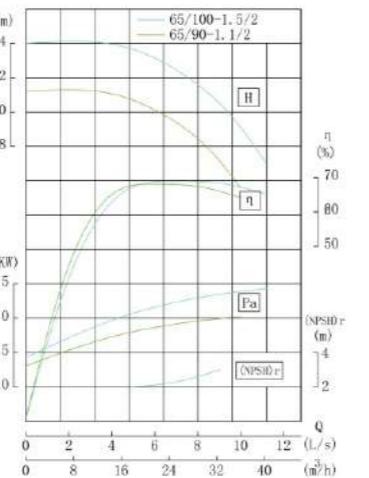
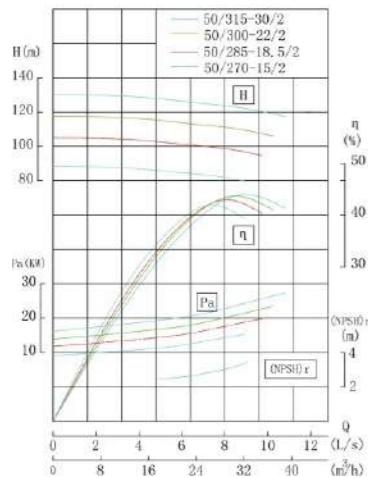
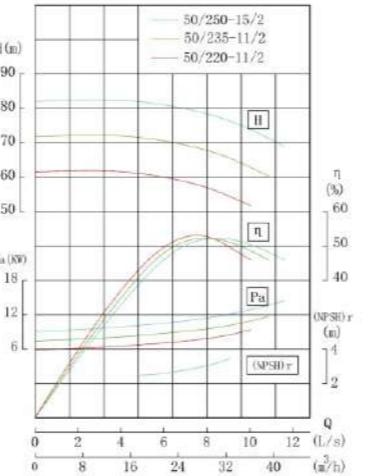
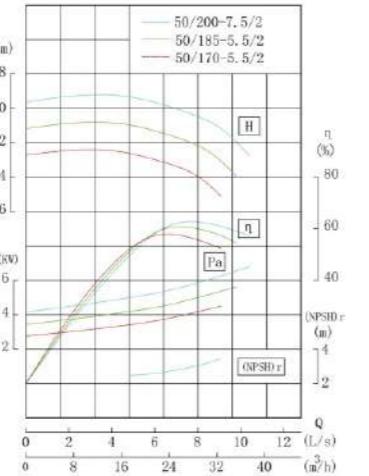
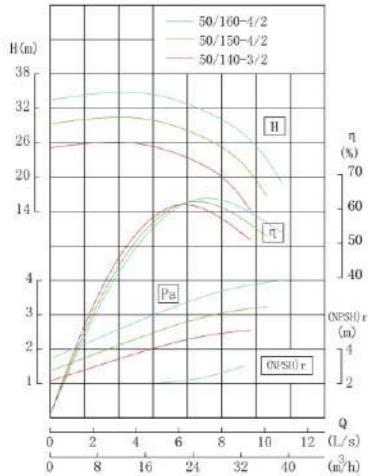
PERFORMANCE GRAPHS



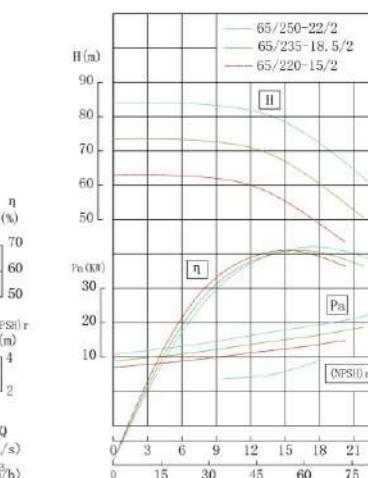
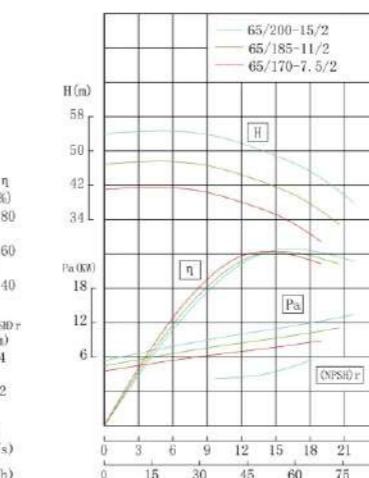
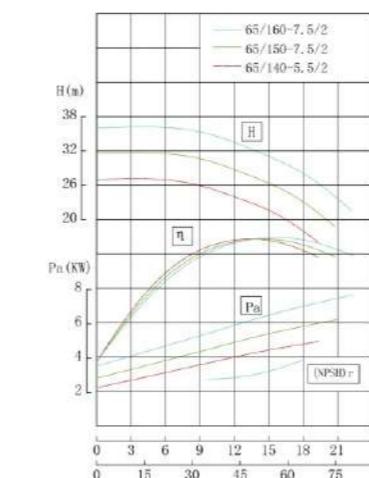
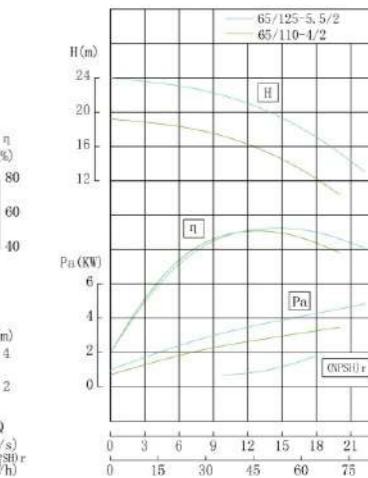
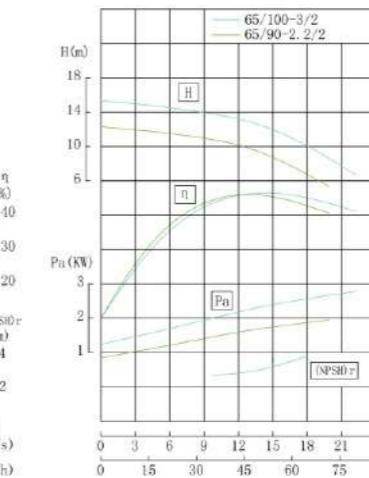
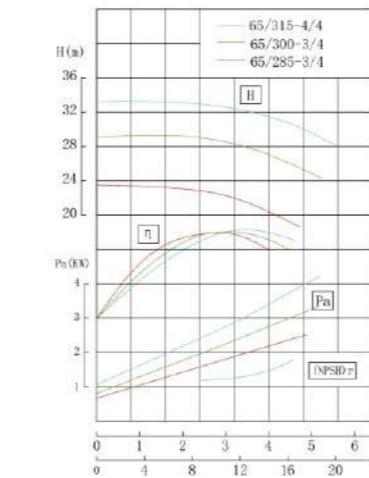
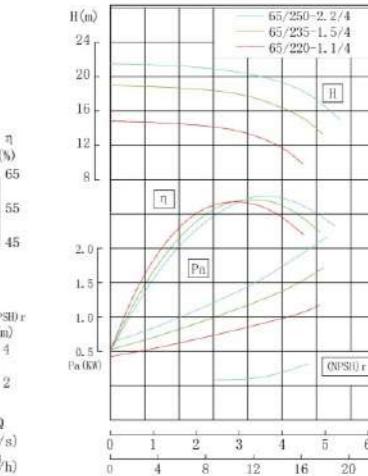
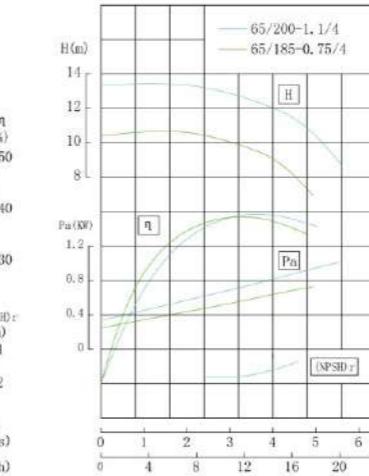
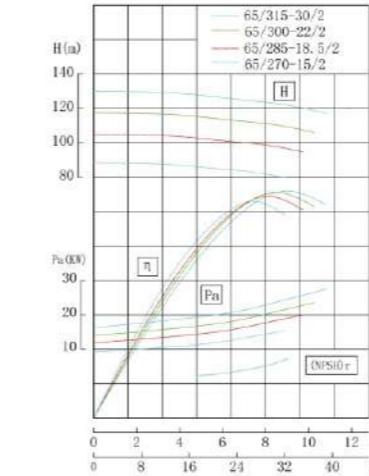
PERFORMANCE GRAPHS



PERFORMANCE GRAPHS



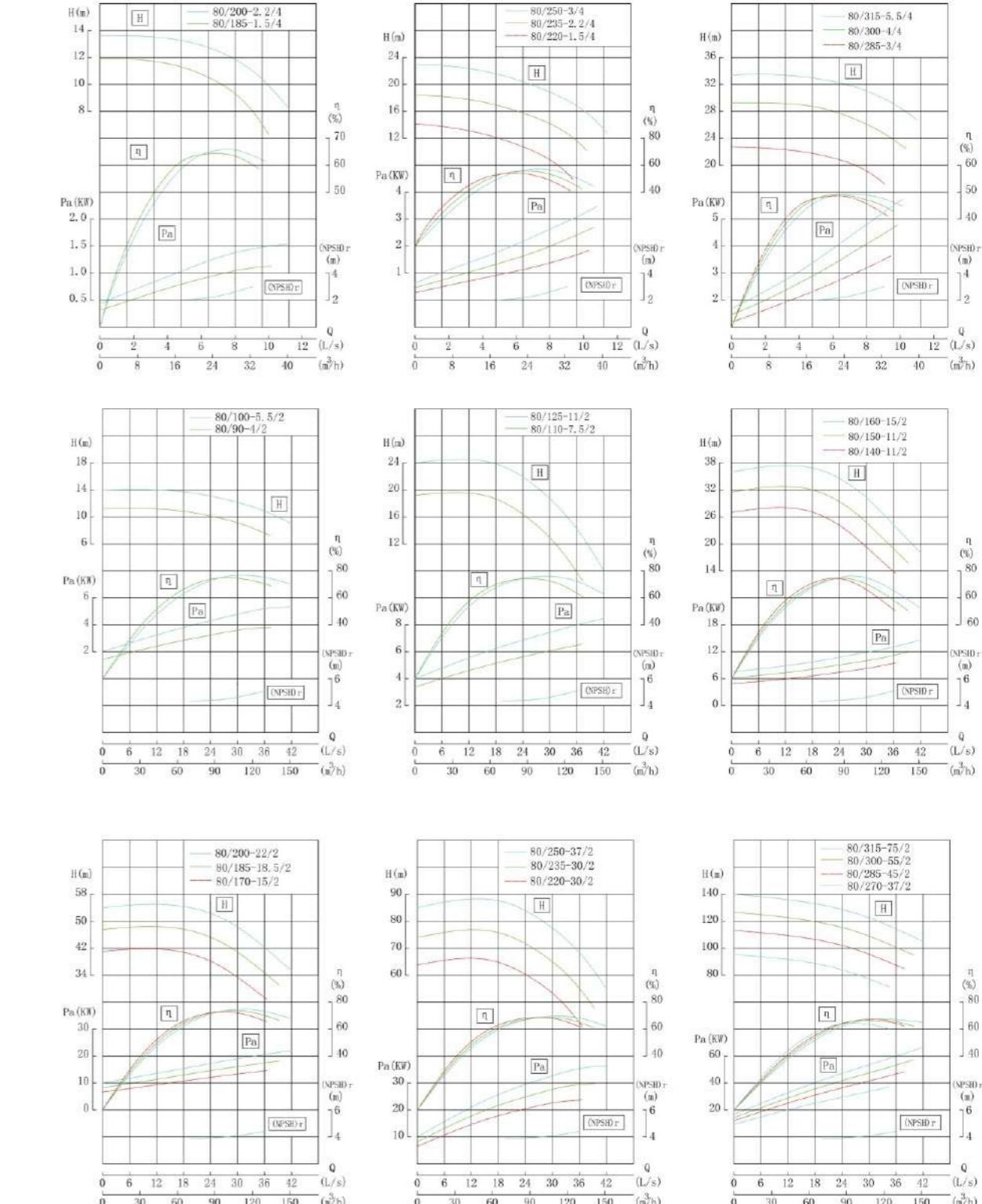
PERFORMANCE GRAPHS



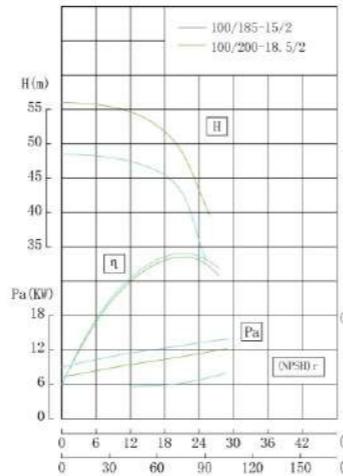
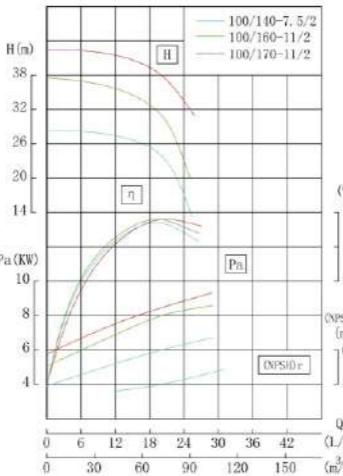
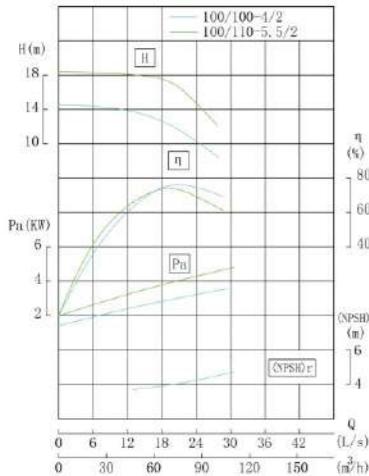
PERFORMANCE GRAPHS



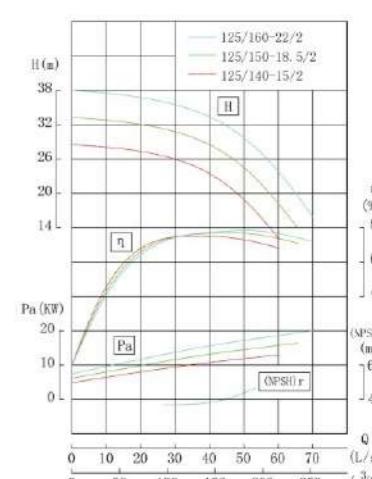
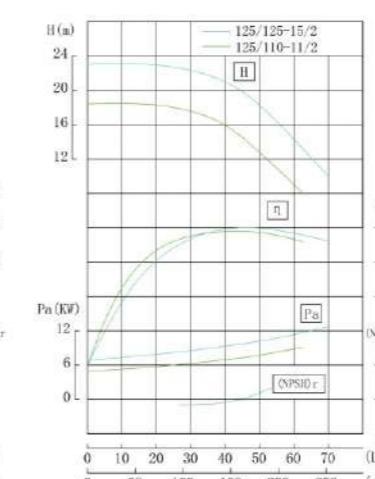
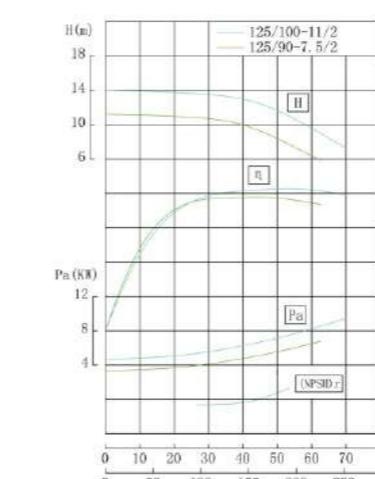
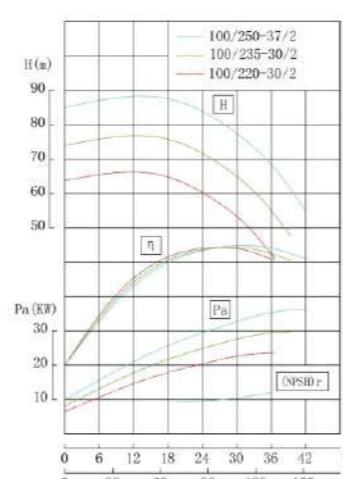
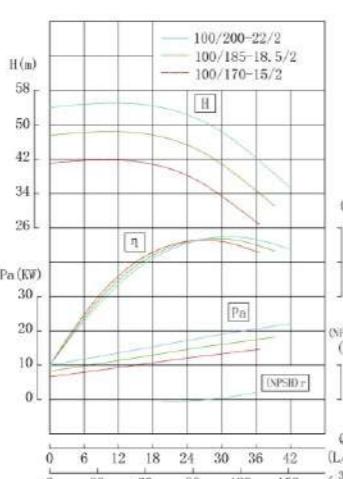
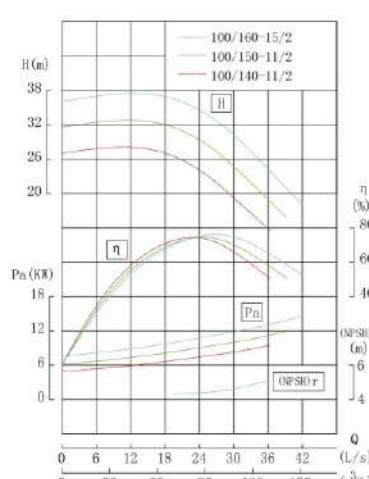
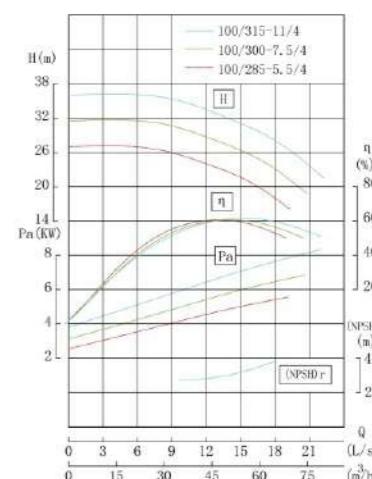
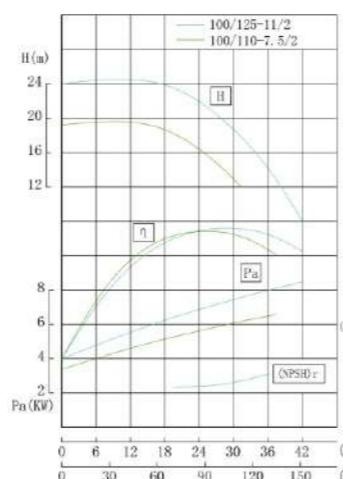
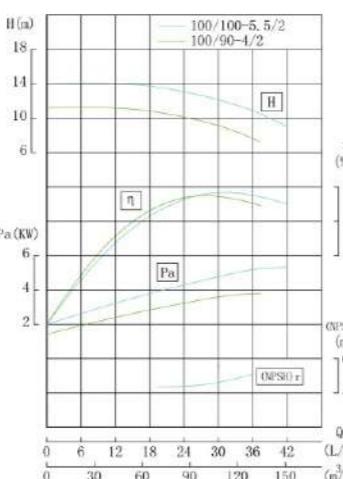
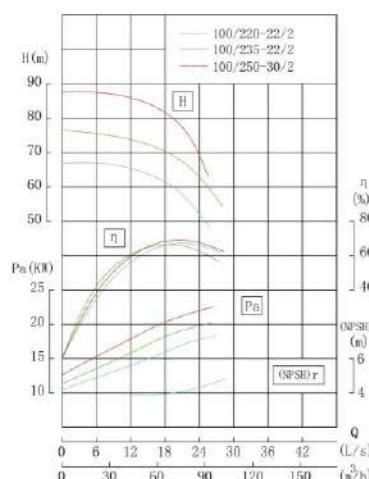
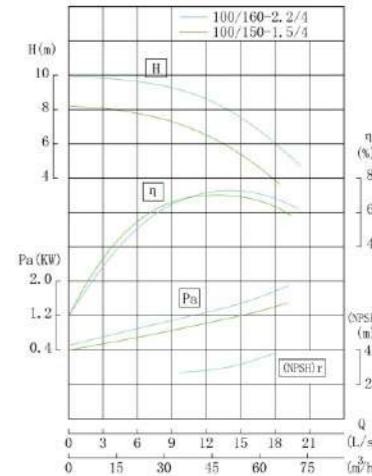
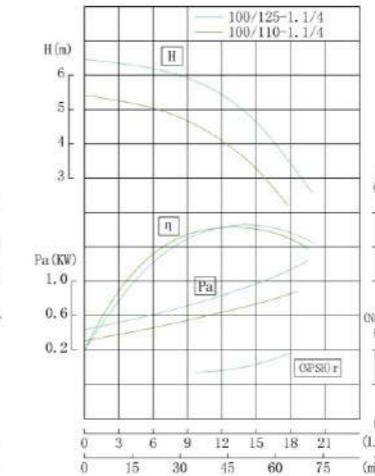
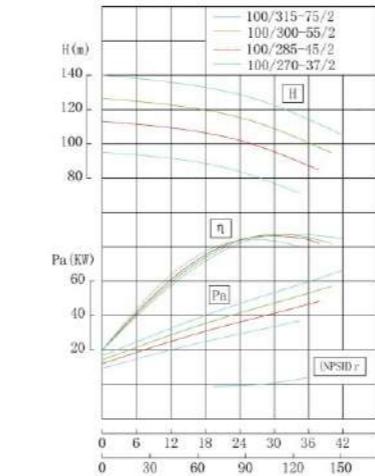
PERFORMANCE GRAPHS



PERFORMANCE GRAPHS



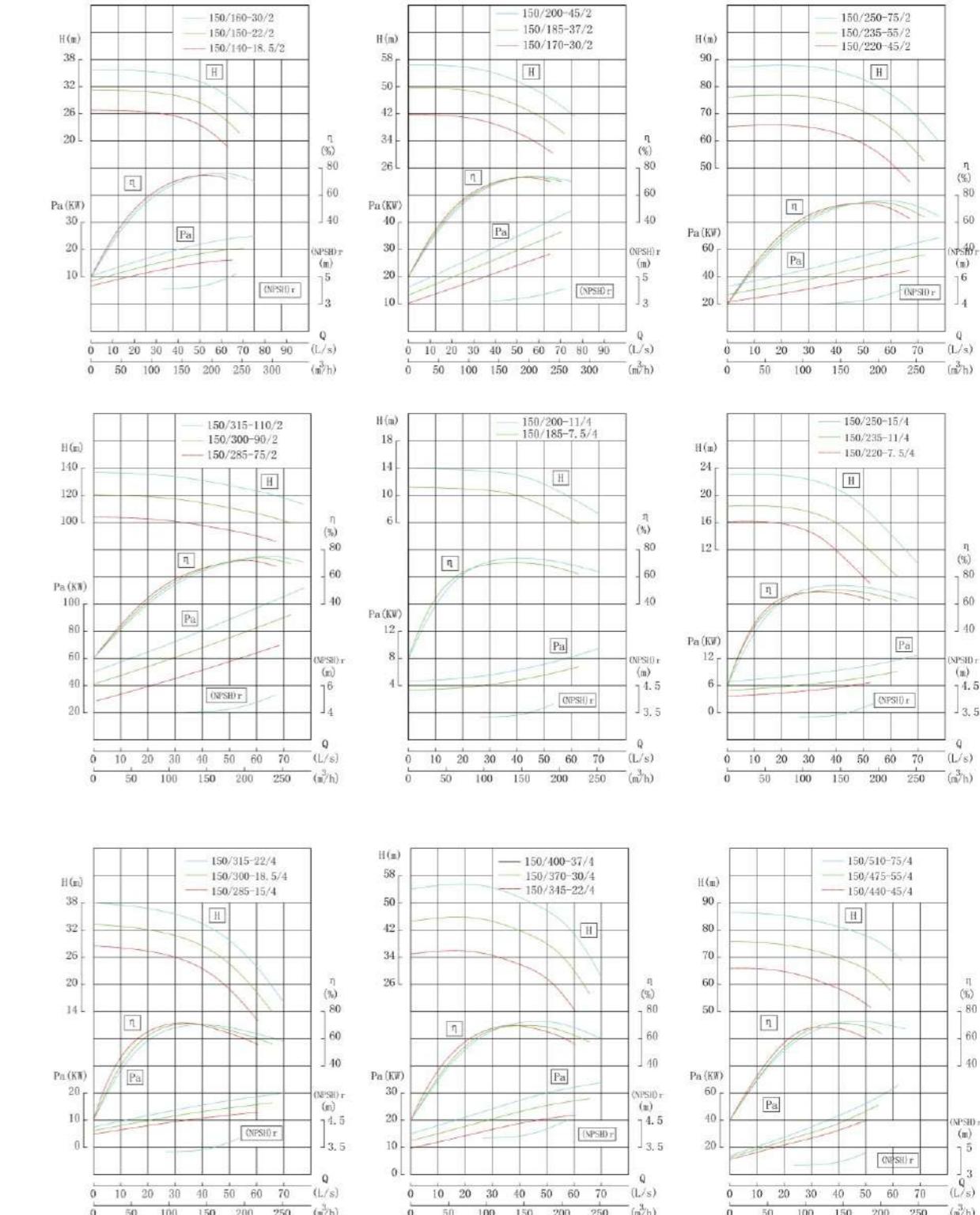
PERFORMANCE GRAPHS



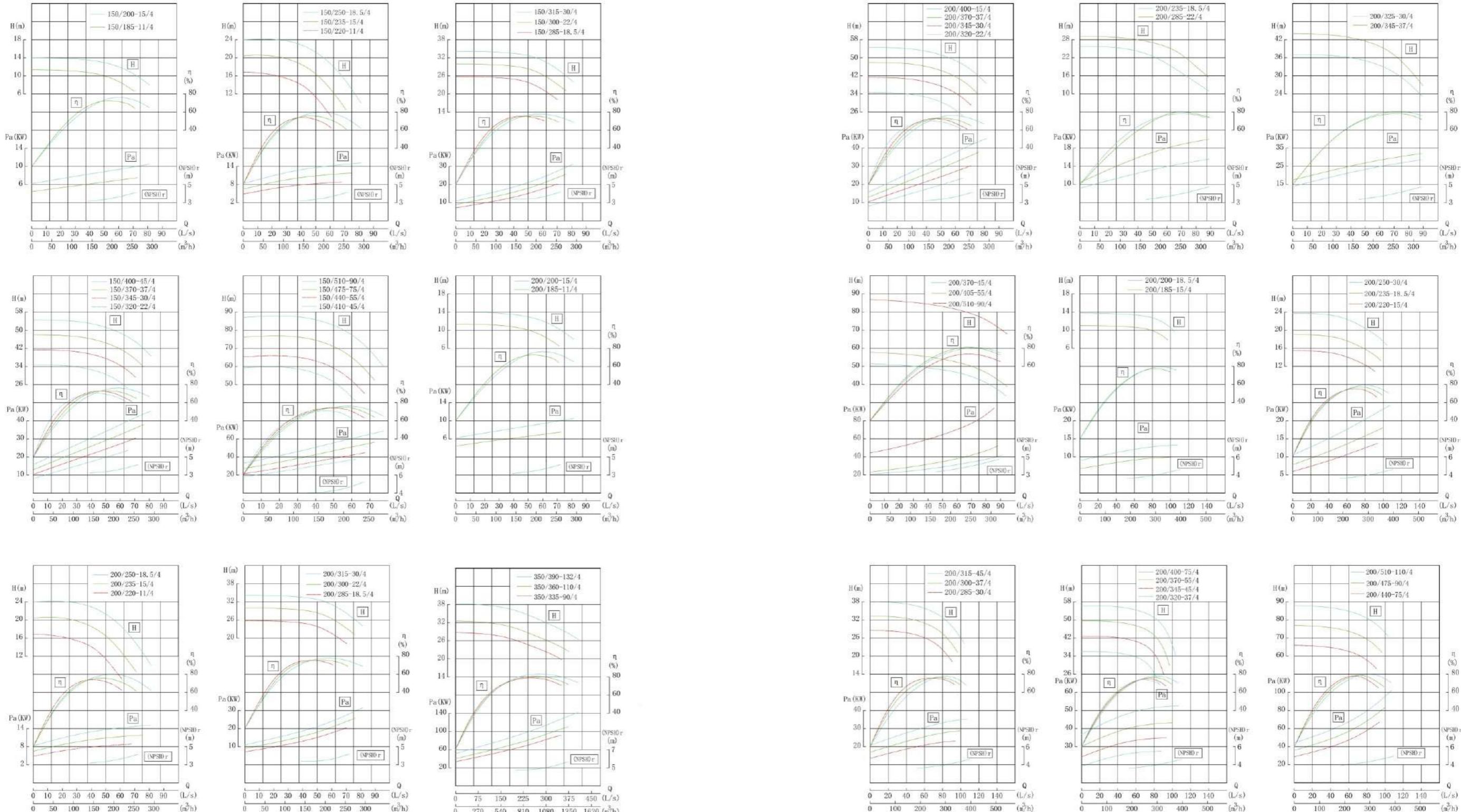
PERFORMANCE GRAPHS



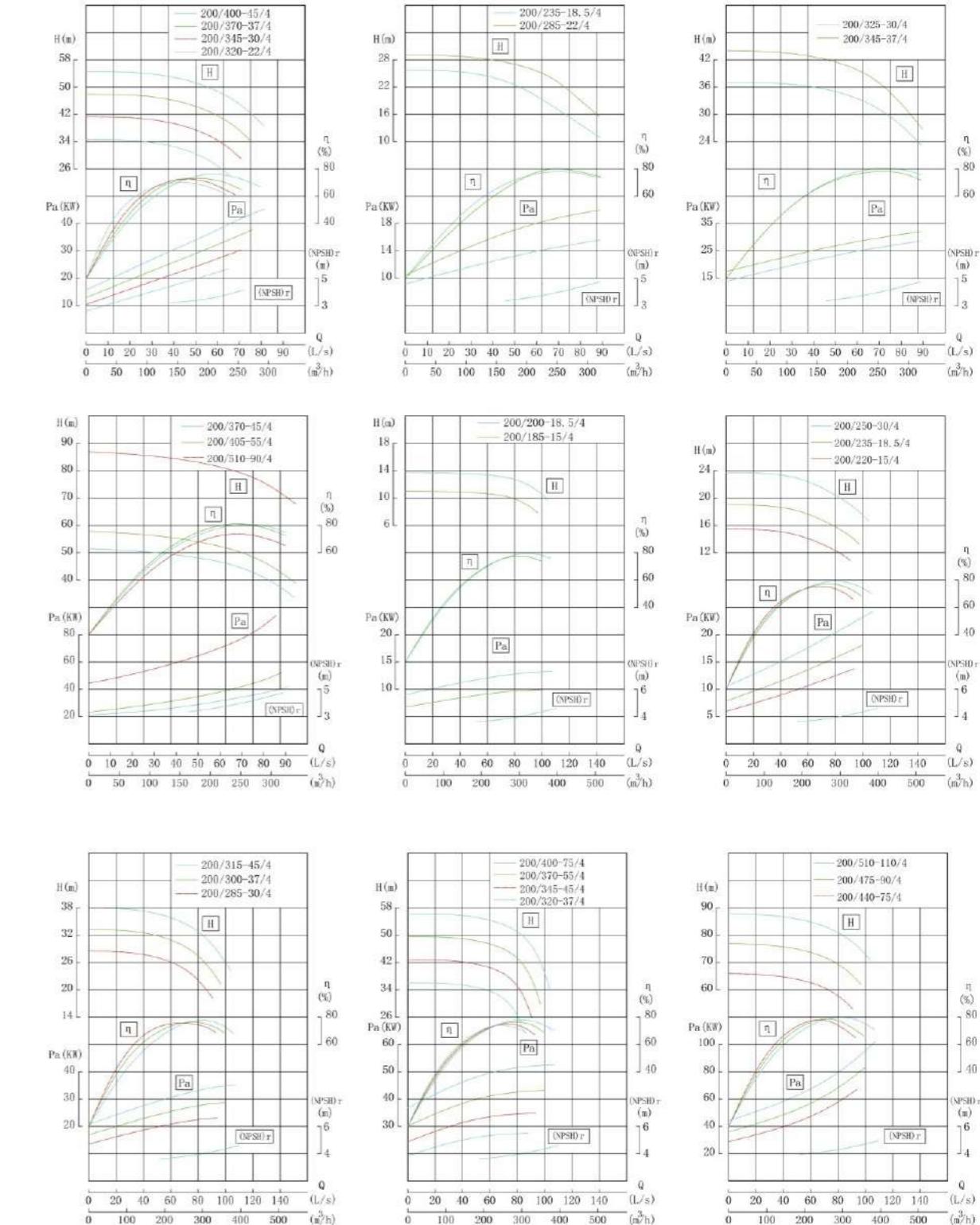
PERFORMANCE GRAPHS



PERFORMANCE GRAPHS



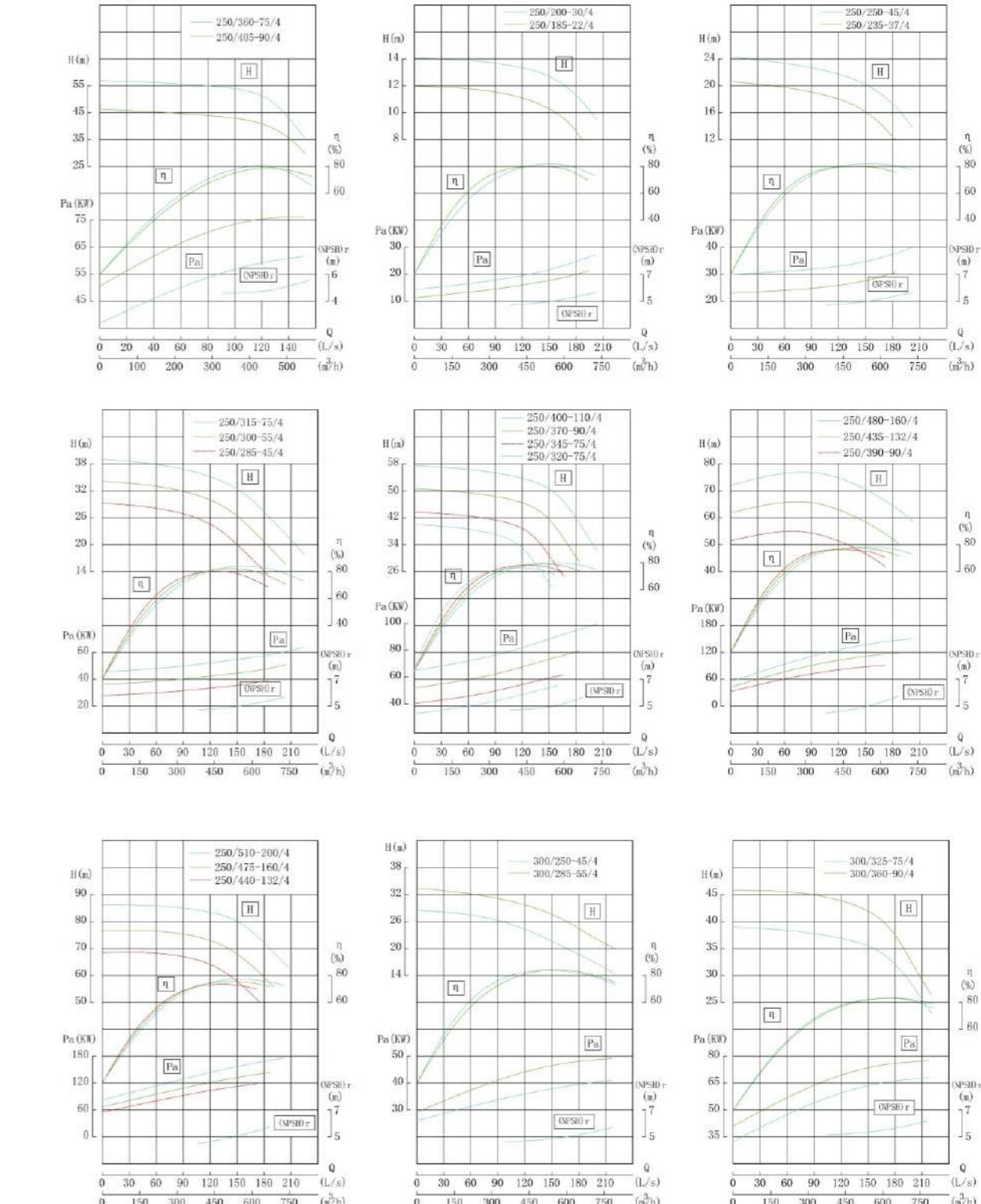
PERFORMANCE GRAPHS



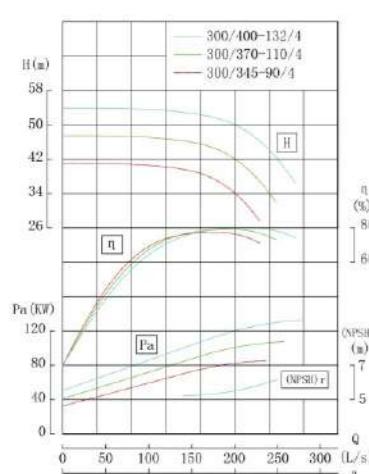
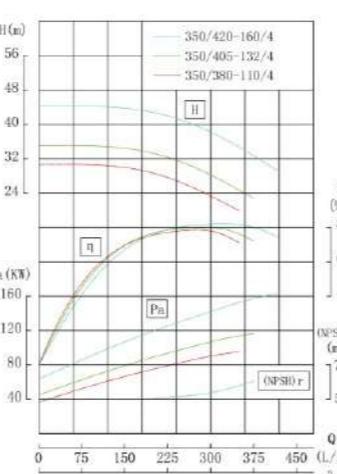
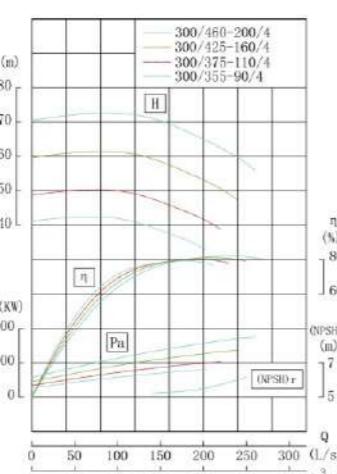
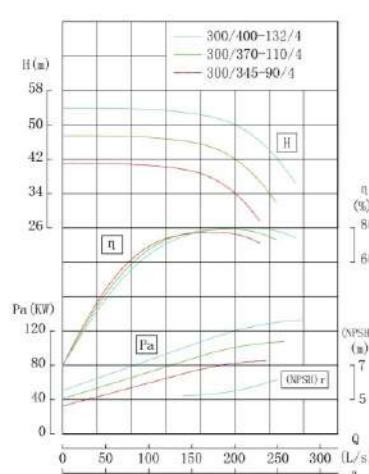
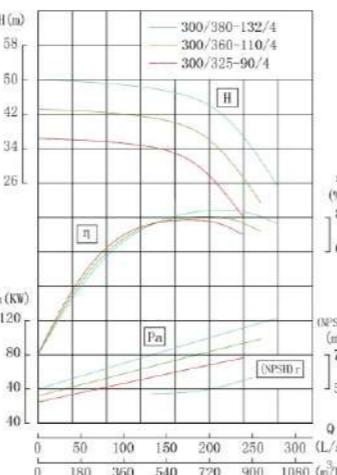
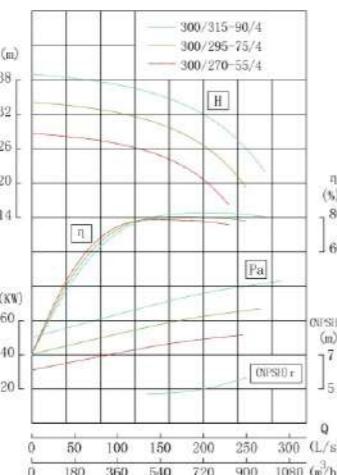
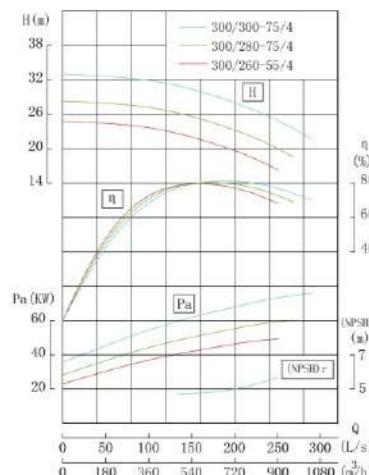
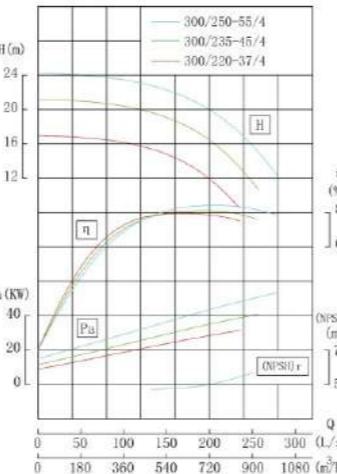
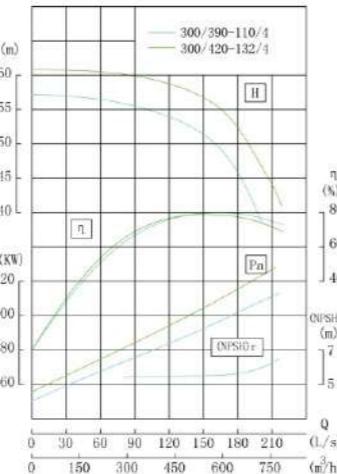
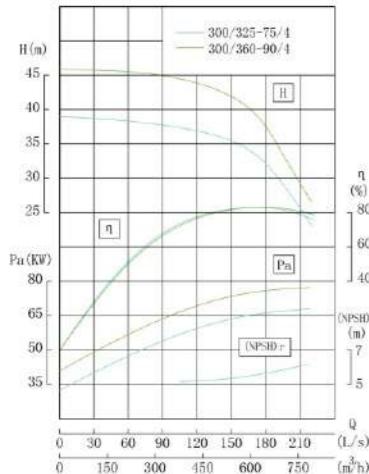
PERFORMANCE GRAPHS



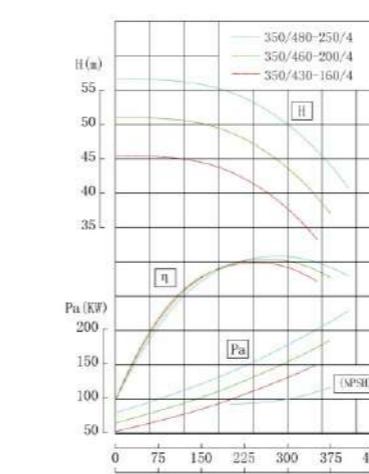
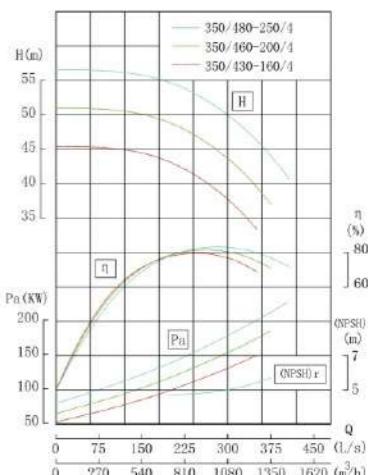
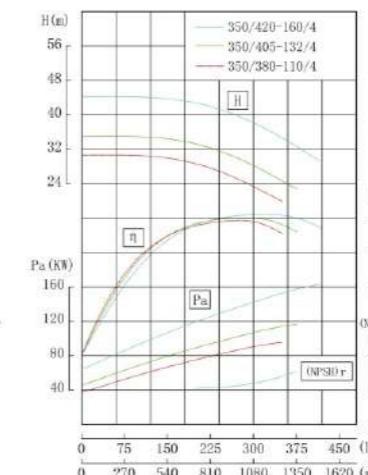
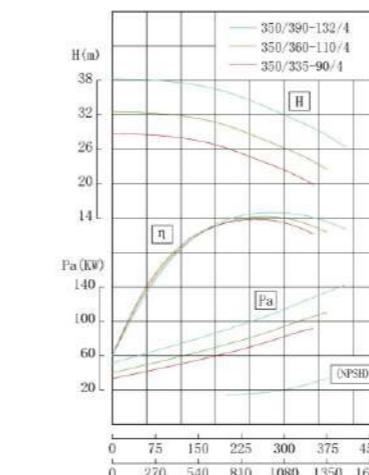
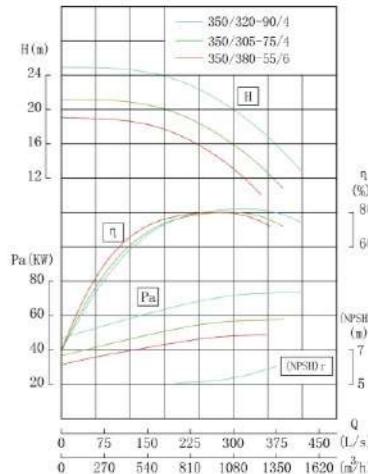
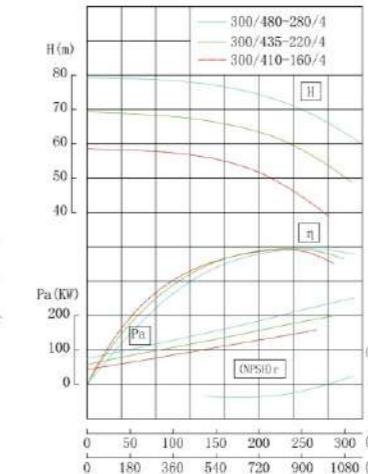
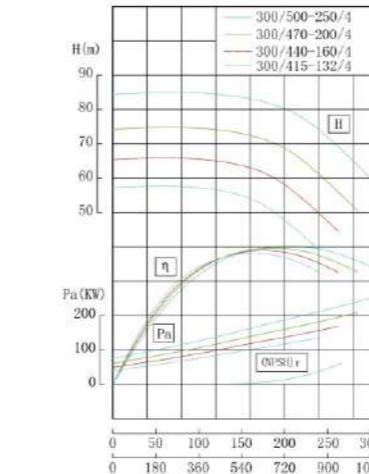
PERFORMANCE GRAPHS



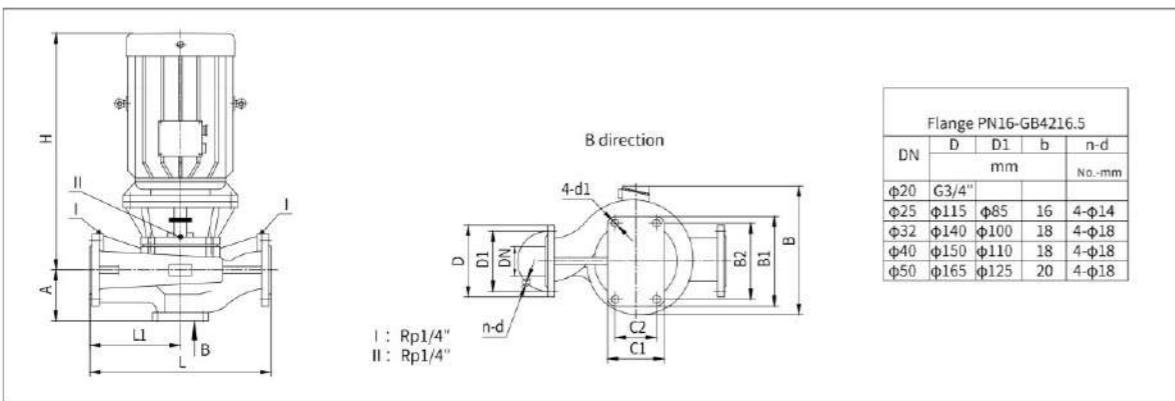
PERFORMANCE GRAPHS



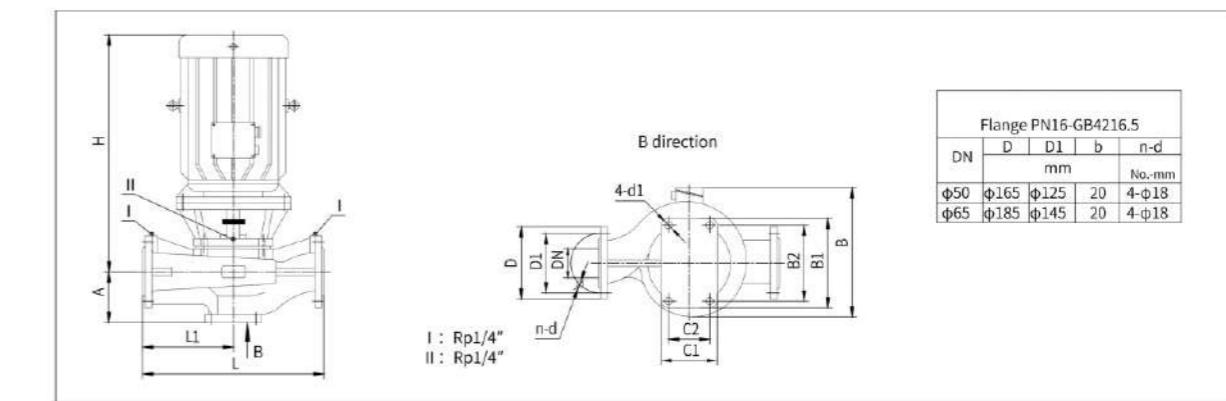
PERFORMANCE GRAPHS



TKG VERTICAL INSTALLATION SIZE DIAGRAM



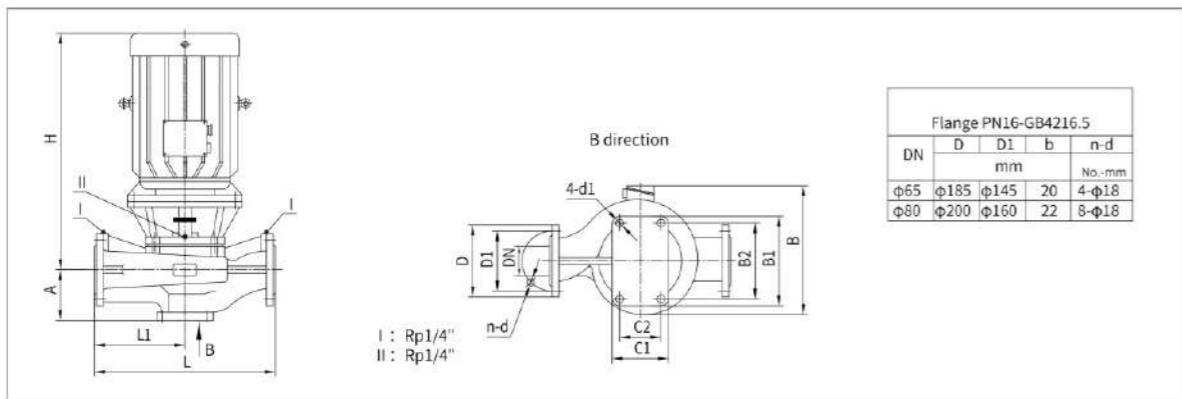
TKG VERTICAL INSTALLATION SIZE DIAGRAM



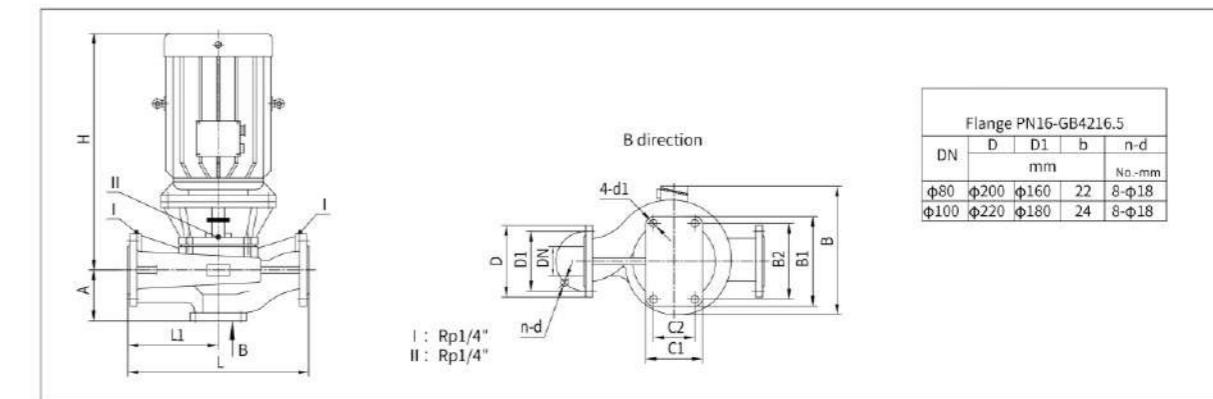
Model	Outline dimensions				Installing dimensions				Model	Outline dimensions				Installing dimensions			
	L	L1	B	H	C1XB1	A	C2XB2	4-d 1		L	L1	B	H	C1XB1	A	C2XB2	4-d 1
001 20/110-0.37/2	260	130	230	315	70X115	65	45X90	4-Φ12	026 40/235-0.75/4	420	210	405	350	100X130	95	70X100	4-Φ12
002 20/160-1.1/2	300	150	230	350	70X115	65	45X90	4-Φ12	027 40/220-0.55/4	420	210	405	350	100X130	95	70X100	4-Φ12
003 25/110-0.55/2	260	130	230	315	70X115	65	45X90	4-Φ12	028 40/100-1.1/2	340	170	230	355	90X140	100	60X110	4-Φ14
004 25/125-0.75/2	260	130	230	350	70X115	65	45X90	4-Φ12	029 40/90-0.75/2	340	170	230	355	90X140	100	60X110	4-Φ14
005 25/115-0.55/2	260	130	230	315	70X115	65	45X90	4-Φ12	030 40/125-1.5/2	340	170	240	370	90X140	100	60X110	4-Φ14
006 25/160-1.5/2	300	150	270	370	70X115	65	45X90	4-Φ12	031 40/110-1.1/2	340	170	240	355	90X140	100	60X110	4-Φ14
007 25/150-1.1/2	300	150	270	355	70X115	65	45X90	4-Φ12	032 40/160-3/2	340	170	300	450	90X140	100	60X110	4-Φ14
008 32/125-0.75/2	260	130	230	355	70X115	75	45X90	4-Φ12	033 40/150-2.2/2	340	170	300	400	90X140	100	60X110	4-Φ14
009 32/110-0.75/2	260	130	230	355	70X115	75	45X90	4-Φ12	034 40/140-1.5/2	340	170	300	370	90X140	100	60X110	4-Φ14
010 40/100-0.55/2	340	170	230	320	70X115	90	45X90	4-Φ14	035 40/200-5.5/2	440	220	350	520	110X145	105	80X115	4-Φ14
011 40/90-0.37/2	340	170	230	320	70X115	90	45X90	4-Φ14	036 40/185-4/2	440	220	350	465	110X145	105	80X115	4-Φ14
012 40/125-1.1/2	340	170	230	355	70X115	90	45X90	4-Φ14	037 40/170-3/2	440	220	350	445	110X145	105	80X115	4-Φ14
013 40/110-0.75/5	340	170	230	355	70X115	90	45X90	4-Φ14	038 40/250-11/2	440	220	410	650	110X145	105	80X115	4-Φ14
014 40/160-2.2/2	340	170	320	395	70X115	90	45X90	4-Φ14	039 40/235-7.5/2	440	220	410	535	110X145	105	80X115	4-Φ14
015 40/150-1.5/2	340	170	320	375	70X115	90	45X90	4-Φ14	040 40/220-7.5/2	440	220	410	535	110X145	105	80X115	4-Φ14
016 40/140-1.1/2	340	170	320	360	70X115	80	45X90	4-Φ14	041 50/100-1.1/2	340	170	230	355	90X140	100	60X110	4-Φ14
017 40/200-4/2	420	210	330	440	100X130	95	70X100	4-Φ12	042 50/90-0.75/2	340	170	230	355	90X140	100	60X110	4-Φ14
018 40/185-3/2	420	210	330	420	100X130	95	70X100	4-Φ12	043 50/125-1.5/2	340	170	240	370	90X140	100	60X110	4-Φ14
019 40/170-2.2/2	420	210	330	375	100X130	95	70X100	4-Φ12	044 50/110-1.1/2	340	170	240	355	90X140	100	60X110	4-Φ14
020 40/250-7.5/2	420	210	405	500	100X130	95	70X100	4-Φ12	045 50/160-3/2	340	170	300	445	90X140	100	60X110	4-Φ14
021 40/235-5.5/2	420	210	405	490	100X130	95	70X100	4-Φ12	046 50/150-2.2/2	340	170	300	400	90X140	100	60X110	4-Φ14
022 40/220-4/2	420	210	405	445	100X130	95	70X100	4-Φ12	047 50/140-1.5/2	340	170	300	370	90X140	100	60X110	4-Φ14
023 40/200-0.55/4	420	210	330	345	100X130	95	70X100	4-Φ12	048 50/200-5.5/2	440	220	350	520	110X145	105	80X115	4-Φ14
024 40/185-0.37/4	420	210	330	315	100X130	95	70X100	4-Φ12	049 50/185-4/2	440	220	350	465	110X145	105	80X115	4-Φ14
025 40/250-1.1/4	420	210	405	365	100X130	95	70X100	4-Φ12	050 50/170-3/2	440	220	350	445	110X145	105	80X115	4-Φ14

Model	Outline dimensions				Installing dimensions				Model	Outline dimensions				Installing dimensions			
	L	L1	B	H	C1XB1	A	C2XB2	4-d 1		L	L1	B	H	C1XB1	A	C2XB2	4-d 1
051 50/250-11/2	440	220	410	650	110X145	105	80X115	4-Φ14	076 65/100-1.5/2	380	190	255	370	110X160	110	80X130	4-Φ14
052 50/235-7.5/2	440	220	410	535	110X145	105	80X115	4-Φ14	077 65/90-1.1/2	380	190	255	365	110X160	110	80X130	4-Φ14
053 50/220-7.5/2	440	220	410	535	110X145	105	80X115	4-Φ14	078 65/125-3/2	380	190	280	450	110X160	110	80X130	4-Φ14
054 50/200-0.75/4	440	220	350	370	110X145	105	80X115	4-Φ14	079 65/110-2.2/2								

TKG VERTICAL INSTALLATION SIZE DIAGRAM

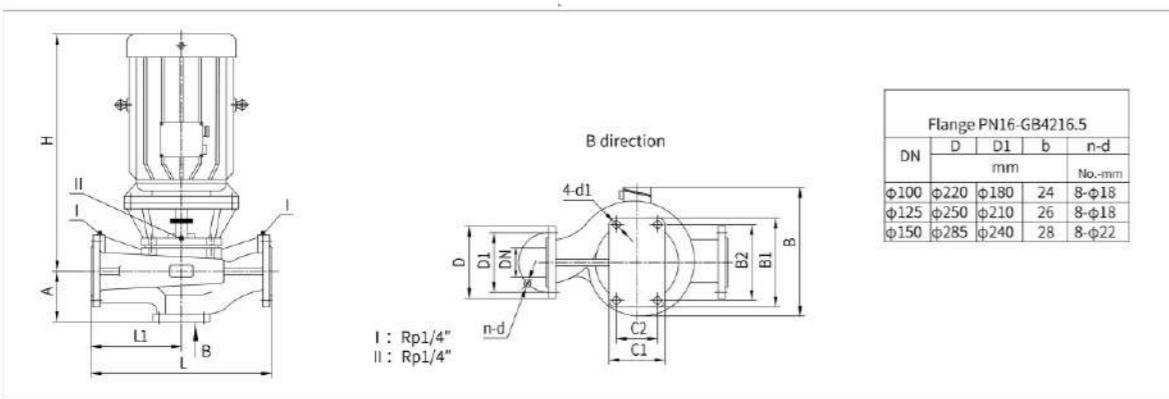


TKG VERTICAL INSTALLATION SIZE DIAGRAM

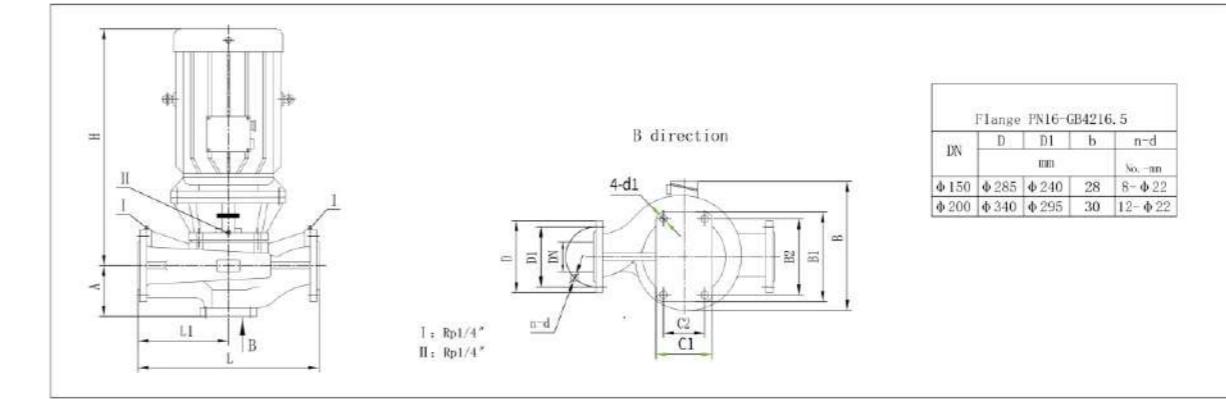


Model	Outline dimensions				Installing dimensions			Model	Outline dimensions				Installing dimensions				
	L	L1	B	H	C1XB1	A	C2XB2	4-d 1	L	L1	B	H	C1XB1	A	C2XB2	4-d 1	
101 65/100-3/2	400	200	325	450	120X160	120	90X130	4-Ø14	126 80/185-11/2	500	250	425	650	140X190	130	100X150	4-Ø18
102 65/90-2.2/2	400	200	325	435	120X160	120	90X130	4-Ø14	127 80/170-7.5/2	500	250	425	535	140X190	130	100X150	4-Ø18
103 65/125-5.5/2	400	200	365	525	120X160	120	90X130	4-Ø14	128 80/250-22/2	500	250	465	720	140X190	130	100X150	4-Ø18
104 65/110-4/2	400	200	365	470	120X160	120	90X130	4-Ø14	129 80/235-18.5/2	500	250	465	720	140X190	130	100X150	4-Ø18
105 65/160-7.5/2	400	200	385	525	120X160	120	90X130	4-Ø14	130 80/220-15/2	500	250	465	685	140X190	130	100X150	4-Ø18
106 65/150-7.5/2	400	200	385	525	120X160	120	90X130	4-Ø14	131 80/315-37/2	560	260	520	830	140X190	135	100X150	4-Ø18
107 65/140-5.5/2	400	200	385	525	120X160	120	90X130	4-Ø14	132 80/300-30/2	560	260	520	830	140X190	135	100X150	4-Ø18
108 65/200-15/2	500	250	425	650	140X190	130	100X150	4-Ø18	133 80/285-30/2	560	260	520	830	140X190	135	100X150	4-Ø18
109 65/185-11/2	500	250	425	650	140X190	130	100X150	4-Ø18	134 80/270-22/2	560	260	520	790	140X190	135	100X150	4-Ø18
110 65/170-7.5/2	500	250	425	545	140X190	130	100X150	4-Ø18	135 80/125-0.75/4	400	200	385	375	120X160	120	90X130	4-Ø14
111 65/250-22/2	500	250	465	720	140X190	130	100X150	4-Ø18	136 80/110-0.55/4	400	200	385	375	120X160	120	90X130	4-Ø14
112 65/235-18.5/2	500	250	465	720	140X190	130	100X150	4-Ø18	137 80/160-1.1/4	400	200	365	385	120X160	120	90X130	4-Ø14
113 65/220-15/2	500	250	465	690	140X190	130	100X150	4-Ø18	138 80/150-0.75/4	400	200	365	375	120X160	120	90X130	4-Ø14
114 65/315-37/2	560	260	510	830	140X190	135	100X150	4-Ø18	139 80/200-2.2/4	500	250	415	480	140X190	130	100X150	4-Ø18
115 65/300-30/2	560	260	510	830	140X190	135	100X150	4-Ø18	140 80/185-1.5/4	500	250	415	445	140X190	130	100X150	4-Ø18
116 65/285-30/2	560	260	510	830	140X190	135	100X150	4-Ø18	141 80/250-3/4	500	250	465	480	140X190	130	100X150	4-Ø18
117 65/270-22/2	560	260	510	785	140X190	135	100X150	4-Ø18	142 80/235-2.2/4	500	250	465	465	140X190	130	100X150	4-Ø18
118 80/100-3/2	400	200	325	450	120X160	120	90X130	4-Ø14	143 80/220-1.5/4	500	250	465	445	140X190	130	100X150	4-Ø18
119 80/90-2.2/2	400	200	325	435	120X160	120	90X130	4-Ø14	144 80/315-5.5/4	560	260	510	560	140X190	135	100X150	4-Ø18
120 80/125-5.5/2	400	200	365	525	120X160	120	90X130	4-Ø14	145 80/300-4/4	560	260	510	505	140X190	135	100X150	4-Ø18
121 80/110-4/2	400	200	365	470	120X160	120	90X130	4-Ø14	146 80/285-3/4	560	260	510	485	140X190	135	100X150	4-Ø18
122 80/160-7.5/2	400	200	385	520	120X160	120	90X130	4-Ø14	147 80/100-5.5/2	520	260	370	550	140X170	150	110X140	4-Ø14
123 80/150-7.5/2	400	200	385	520	120X160	120	90X130	4-Ø14	148 80/90-4/2	520	260	370	475	140X170	150	110X140	4-Ø14
124 80/140-5.5/2	400	200	385	520	120X160	120	90X130	4-Ø14	149 80/125-11/2	520	260	415	650	140X170	150	110X140	4-Ø14
125 80/200-15/2	500	250	425	650	140X190	130	100X150	4-Ø18	150 80/110-7.5/2	520	260	415	535	140X170	150	110X140	4-Ø14

TKG VERTICAL INSTALLATION SIZE DIAGRAM



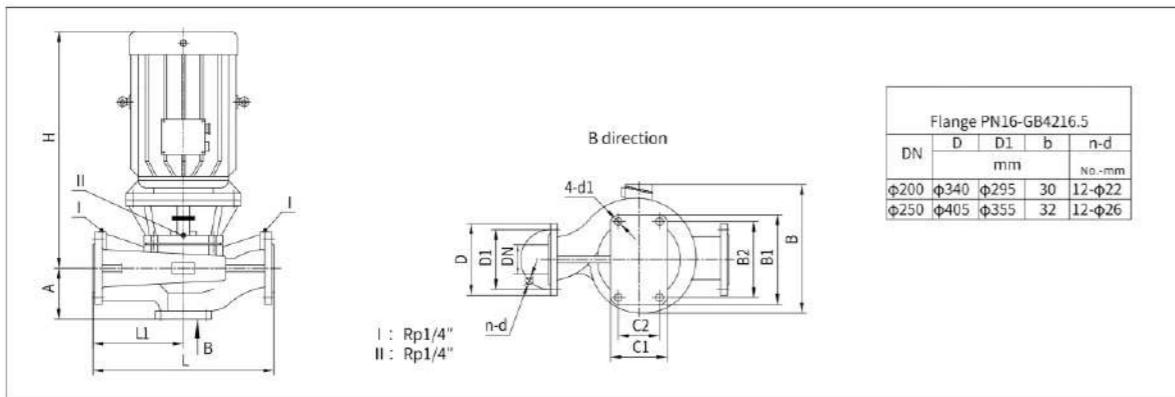
TKG VERTICAL INSTALLATION SIZE DIAGRAM



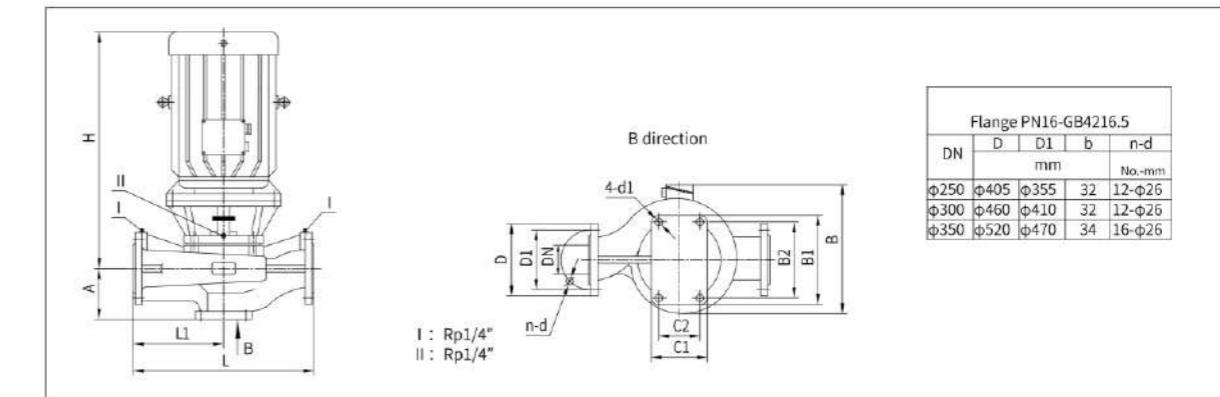
Model	Outline dimensions				Installing dimensions				Model	Outline dimensions				Installing dimensions			
	L	L1	B	H	C1XB1	A	C2XB2	4-d1		L	L1	B	H	C1XB1	A	C2XB2	4-d1
201 100/300-7.5/4	670	330	650	610	170X220	180	130X180	4-Φ18	226 125/250-11/4	640	310	530	610	210X260	190	160X210	4-Φ22
202 100/285-5.5/4	670	330	650	570	170X220	180	130X180	4-Φ18	227 125/235-7.5/4	640	310	530	610	210X260	190	160X210	4-Φ22
203 125/100-11/2	560	260	430	665	190X240	170	150X200	4-Φ18	228 125/220-5.5/4	640	310	530	570	210X260	190	160X210	4-Φ22
204 125/90-7.5/2	560	260	430	570	190X240	170	150X200	4-Φ18	229 125/315-15/4	670	330	545	710	170X220	180	130X180	4-Φ18
205 125/125-15/2	560	260	475	660	190X240	170	150X200	4-Φ18	230 125/300-11/4	670	330	545	710	170X220	180	130X180	4-Φ18
206 125/110-11/2	560	260	475	660	190X240	170	150X200	4-Φ18	231 125/285-7.5/4	670	330	545	660	170X220	180	130X180	4-Φ18
207 125/160-22/2	560	260	485	725	190X240	170	150X200	4-Φ18	232 125/400-30/4	780	380	600	845	250X300	195	210X260	4-Φ22
208 125/150-18.5/2	560	260	485	700	190X240	170	150X200	4-Φ18	233 125/370-22/4	780	380	600	775	250X300	195	210X260	4-Φ22
209 125/140-15/2	560	260	485	655	190X240	170	150X200	4-Φ18	234 125/345-18.5/4	780	380	600	735	250X300	195	210X260	4-Φ22
210 125/200-37/2	640	310	510	825	210X260	190	160X210	4-Φ22	235 150/160-30/2	560	260	475	825	190X240	170	150X200	4-Φ18
211 125/185-30/2	640	310	510	825	210X260	190	160X210	4-Φ22	236 150/150-22/2	560	260	465	730	190X240	170	150X200	4-Φ18
212 125/170-22/2	640	310	485	720	210X260	190	160X210	4-Φ22	237 150/140-18.5/2	560	260	465	700	190X240	170	150X200	4-Φ18
213 125/250-55/2	640	310	650	965	210X260	190	160X210	4-Φ22	238 150/200-45/2	640	310	550	870	210X260	190	160X210	4-Φ22
214 125/235-45/2	640	310	600	880	210X260	190	160X210	4-Φ22	239 150/185-37/2	640	310	510	825	210X260	190	160X210	4-Φ22
215 125/220-37/2	640	310	560	835	210X260	190	160X210	4-Φ22	240 150/170-30/2	640	310	495	825	210X260	190	160X210	4-Φ22
216 125/315-90/2	670	330	720	1085	170X220	180	130X180	4-Φ18	241 150/250-75/2	700	340	685	1040	220X290	200	170X240	4-Φ22
217 125/300-75/2	670	330	720	1035	170X220	180	130X180	4-Φ18	242 150/235-55/2	700	340	655	970	220X290	200	170X240	4-Φ22
218 125/285-75/2	670	330	720	1035	170X220	180	130X180	4-Φ18	243 150/220-45/2	700	340	600	885	220X290	200	170X240	4-Φ22
219 125/270-55/2	670	330	720	965	170X220	180	130X180	4-Φ18	244 150/315-110/2	760	340	790	1320	220X270	195	180X230	4-Φ18
220 125/350-110/2	680	340	860	1235	230X320	180	170X260	4-Φ18	245 150/300-90/2	760	340	700	1085	220X270	195	180X230	4-Φ18
221 125/330-90/2	680	340	720	1085	230X320	180	170X260	4-Φ18	246 150/285-75/2	760	340	700	1035	220X270	195	180X230	4-Φ18
222 125/310-75/2	680	340	720	1035	230X320	180	170X260	4-Φ18	247 150/200-11/4	700	340	485	640	220X290	190	170X240	4-Φ22
223 125/160-4/4	560	260	465	485	190X240	170	150X200	4-Φ18	248 150/185-7.5/4	700	340	485	585	220X290	200	170X240	4-Φ22
224 125/200-5.5/4	640	310	480	555	210X260	190	160X210	4-Φ22	249 150/250-15/4	700	340	540	910	220X290	200	170X240	4-Φ22
225 125/185-4/4	640	310	480	500	210X260	190	160X210	4-Φ22	250 150/235-11/4	700	340	540	875	220X290	200	170X240	4-Φ22

Model	Outline dimensions				Installing dimensions				Model	Outline dimensions				Installing dimensions			
	L	L1	B	H	C1XB1	A	C2XB2	4-d1		L	L1	B	H	C1XB1	A	C2XB2	4-d1
251 150/220-7.5/4	700	340	540	820	220X290	200	170X240	4-Φ22	276 150/410-45/4	1000	500	665	890	360X460	235	300X400	4-Φ23
252 150/315-22/4	760	380	550	790	220X270	195	180X230	4-Φ18	277 200/200-15/4	750	375	435	865	220X310	210	170X275	4-Φ18
253 150/300-18.5/4	760	380	550	750	220X270	195	180X230	4-Φ18	278 200/185-11/4	750	375	435	865	220X			

TKG VERTICAL INSTALLATION SIZE DIAGRAM



TKG VERTICAL INSTALLATION SIZE DIAGRAM

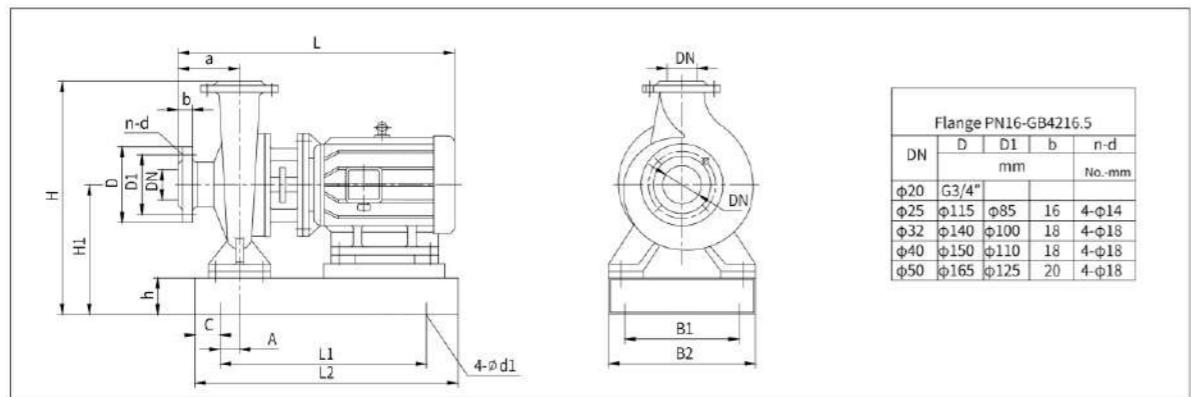


Model	Outline dimensions				Installing dimensions				Model	Outline dimensions				Installing dimensions			
	L	L1	B	H	C1XB1	A	C2XB2	4-d 1		L	L1	B	H	C1XB1	A	C2XB2	4-d 1
301 200/315-45/4	860	420	630	895	300X350	220	250X300	4-Ø22	326 200/345-55/4	880	440	685	980	250X350	240	200X300	4-Ø22
302 200/300-37/4	860	420	630	870	300X350	220	250X300	4-Ø22	327 200/320-45/4	880	440	685	895	250X350	240	200X300	4-Ø22
303 200/285-30/4	860	420	630	850	300X350	220	250X300	4-Ø22	328 200/510-132/4	1080	540	900	1445	370X470	270	270X370	4-Ø22
304 200/400-75/4	880	440	685	1050	250X350	240	200X300	4-Ø22	329 200/475-110/4	1080	540	900	1335	370X470	270	270X370	4-Ø22
305 200/370-55/4	880	440	685	980	250X350	240	200X300	4-Ø22	330 200/440-90/4	1080	540	850	1100	370X470	270	270X370	4-Ø22
306 200/345-45/4	880	440	685	895	250X350	240	200X300	4-Ø22	331 200/410-75/4	1080	540	850	1050	370X470	270	270X370	4-Ø22
307 200/320-37/4	880	440	685	875	250X350	240	200X300	4-Ø22	332 200/330-220/2	760	445	950	1550	220X270	195	180X230	4-Ø18
308 200/510-110/4	1080	540	850	1335	370X470	270	270X370	4-Ø22	333 200/310-200/2	760	445	950	1435	220X270	195	180X230	4-Ø18
309 200/475-90/4	1080	530	850	1100	370X470	270	270X370	4-Ø22	334 200/285-132/2	760	445	860	1430	220X270	195	180X230	4-Ø18
310 200/440-75/4	1080	530	850	1050	370X470	270	270X370	4-Ø22	335 250/290-45/4	1100	500	670	915	330X420	310	280X370	4-Ø22
311 200/280-37/4	860	420	630	870	300X350	220	250X300	4-Ø22	336 250/310-55/4	1100	500	670	1000	400X500	310	350X450	4-Ø22
312 200/300-37/4	860	420	630	870	300X350	220	250X300	4-Ø22	337 250/360-75/4	1200	550	850	1080	400X500	300	350X430	4-Ø27
313 200/325-45/4	860	420	650	895	300X350	220	250X300	4-Ø22	338 250/405-90/4	1200	550	850	1130	400X500	300	350X430	4-Ø27
314 200/350-55/4	880	440	685	980	250X350	240	200X300	4-Ø22	339 250/200-30/4	970	460	640	875	350X400	310	300X350	4-Ø22
315 200/395-75/4	880	440	685	1050	250X350	240	200X300	4-Ø22	340 250/185-22/4	970	460	640	810	350X400	310	300X350	4-Ø22
316 200/200-22/4	830	400	540	775	300X370	230	250X320	4-Ø22	341 250/250-45/4	970	460	640	915	350X400	310	300X350	4-Ø22
317 200/185-18.5/4	830	400	540	735	300X370	230	250X320	4-Ø22	342 250/235-37/4	970	460	640	890	350X400	310	300X350	4-Ø22
318 200/250-30/4	830	400	540	840	300X370	230	250X320	4-Ø22	343 250/315-75/4	1100	500	685	1070	330X420	310	280X370	4-Ø24
319 200/235-22/4	830	400	540	775	300X370	230	250X320	4-Ø22	344 250/300-55/4	1100	500	685	1000	330X420	310	280X370	4-Ø24
320 200/220-18.5/4	830	400	540	735	300X370	230	250X320	4-Ø22	345 250/285-45/4	1100	500	640	915	330X420	310	280X370	4-Ø24
321 200/315-55/4	860	420	630	980	300X350	220	250X300	4-Ø22	346 250/400-110/4	1200	550	900	1365	400X500	310	350X430	4-Ø27
322 200/300-45/4	860	420	630	895	300X350	220	250X300	4-Ø22	347 250/370-90/4	1200	550	800	1130	400X500	310	350X430	4-Ø27
323 200/285-37/4	860	420	630	870	300X350	220	250X300	4-Ø22	348 250/345-75/4	1200	550	800	1080	400X500	310	350X430	4-Ø27
324 200/400-75/4	880	440	685	1050	250X350	240	200X300	4-Ø22	349 250/320-75/4	1200	550	800	1080	400X500	310	350X430	4-Ø27
325 200/370-75/4	880	440	685	1050	250X350	240	200X300	4-Ø22	350 250/480-160/4	1250	600	900	1475	400X500	320	350X450	4-Ø27

Catalog TKW/TKG

fifth-generation standard type pipe centrifugal pump

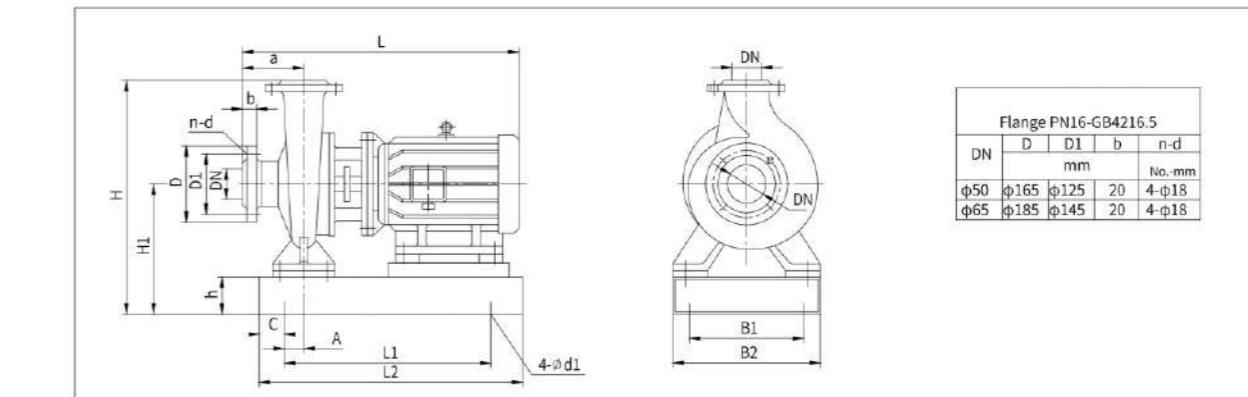
TKW HORIZONTAL INSTALLATION SIZE DIAGRAM



Catalog TKW/TKG

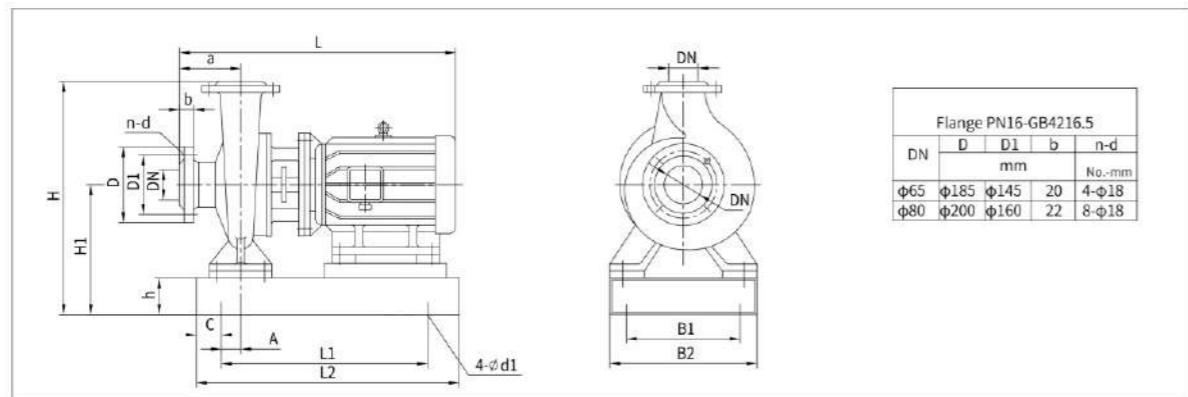
fifth-generation standard type pipe centrifugal pump

TKW HORIZONTAL INSTALLATION SIZE DIAGRAM

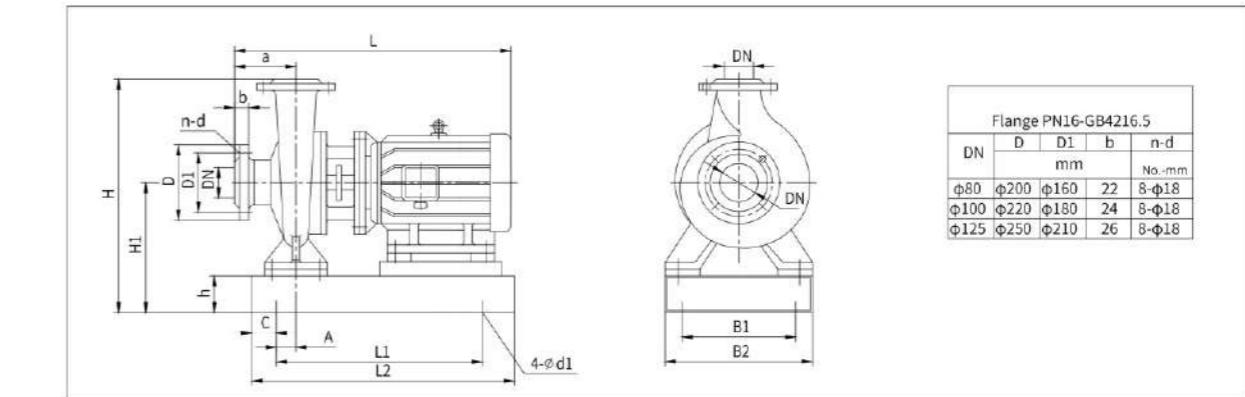


Model	Outline dimensions					Installing dimensions					Model	Outline dimensions					Installing dimensions					Model				
	L	H	L2	B2	h	4-Φd1	a	H1	L1	B1	A	C	L	H	L2	B2	h	4-Φd1	a	H1	L1	B1	A	C		
001 20/110-0.37/2	380	255	320	190	65	4-Φ12	60	155	270	110	20	25	026 40/235-0.75/4	410	460	370	320	80	4-Φ14	80	260	300	220	37	35	051 50/250-11/2
002 20/160-1.1/2	380	255	320	190	65	4-Φ12	60	155	270	110	20	25	027 40/220-0.55/4	410	460	370	320	80	4-Φ14	80	260	300	220	37	35	052 50/235-7.5/2
003 25/110-0.55/2	435	300	320	190	65	4-Φ12	70	180	270	110	20	25	028 40/100-1.1/2	430	372	420	240	80	4-Φ14	80	121	350	140	25	35	053 50/220-7.5/2
004 25/125-0.75/2	435	300	320	190	65	4-Φ12	70	180	270	110	20	25	029 40/90-0.75/2	430	372	420	240	80	4-Φ14	80	212	350	140	25	35	054 50/200-0.75/4
005 25/115-0.55/2	435	300	320	190	65	4-Φ12	70	180	270	110	20	25	030 40/125-1.5/2	455	372	420	240	80	4-Φ14	80	212	350	140	25	35	055 50/185-0.55/4
006 25/160-1.5/2	450	332	320	190	65	4-Φ12	70	192	270	110	20	25	031 40/110-1.1/2	430	372	420	240	80	4-Φ14	80	212	350	140	25	35	056 50/250-1.5/4
007 25/150-1.1/2	425	332	320	190	65	4-Φ12	70	192	270	110	20	25	032 40/160-3/2	520	372	420	240	80	4-Φ14	80	212	350	140	25	35	057 50/235-1.1/4
008 32/125-0.75/2	435	300	320	190	65	4-Φ12	70	180	270	110	20	25	033 40/150-2.2/2	480	372	420	240	80	4-Φ14	80	212	350	140	25	35	058 50/220-0.75/4
009 32/110-0.75/2	435	300	320	190	65	4-Φ12	70	180	270	110	20	25	034 40/140-1.5/2	455	372	420	240	80	4-Φ14	80	212	350	140	25	35	059 50/100-1.5/2
010 40/100-0.55/2	445	392	320	240	80	4-Φ14	80	212	250	140	25	35	035 40/200-5.5/2	630	480	570	340	80	4-Φ14	100	260	500	240	37	35	060 50/90-1.1/2
011 40/90-0.37/2	445	392	320	240	80	4-Φ14	80	212	250	140	25	35	036 40/185-4/2	580	480	570	340	80	4-Φ14	100	260	500	240	37	35	061 50/125-3/2
012 40/125-1.1/2	445	392	320	240	80	4-Φ14	80	212	250	140	25	35	037 40/170-3/2	565	480	570	340	80	4-Φ14	100	260	500	240	37	35	062 50/110-2.2/2
013 40/110-0.75/5	445	392	320	240	80	4-Φ14	80	212	250	140	25	35	038 40/250-11/2	755	480	570	340	80	4-Φ14	100	260	500	240	37	35	063 50/160-4/2
014 40/160-2.2/2	485	392	320	240	80	4-Φ14	80	212	250	140	25	35	039 40/235-7.5/2	630	480	570	340	80	4-Φ14	100	260	500	240	37	35	064 50/150-4/2
015 40/150-1.5/2	460	392	320	240	80	4-Φ14	80	212	250	140	25	35	040 40/220-7.5/2	630	480	570	340	80	4-Φ14	100	260	500	240	37	35	065 50/140-3/2
016 40/140-1.1/2	445	392	320	240	80	4-Φ14	80	212	250	140	25	35	041 50/100-1.1/2	430	372	420	240	80	4-Φ14	80	121	350	140	25	35	066 50/200-7.5/2
017 40/200-4/2	520	460	450	345	80	4-Φ14	80	260	380	245	37	35	042 50/90-0.75/2	430	372	420	240	80	4-Φ14	80	212	350	140	25	35	067 50/135-5.5/2
018 40/185-3/2	500	460	450	345	80	4-Φ14	80	260	380	245	37	35	043 50/125-1.5/2	455	372	420	240	80	4-Φ14	80	212	350	140	25	35	068 50/170-5.5/2
019 40/170-2.2/2	460	460	450	345	80	4-Φ14	80	260	380	245	37	35	044 50/110-1.1/2	430	372	420	240	80	4-Φ14	80	212	350	140	25	35	069 50/250-15/2
020 40/250-7.5/2	590	460	450	345	80	4-Φ14	80	260	380	245	37	35	045 50/160-3/2	520	372	420	240	80	4-Φ14	80	212	350	140	25	35	070 50/235-11/2
021 40/235-5.5/2	590	460	450	345	80	4-Φ14	80	260	380	245	37	35	046 50/150-2.2/2	480	372	420	240	80	4-Φ14	80	212	350	140	25	35	071 50/220-11/2
022 40/220-4/2	520	460	450	345	80	4-Φ14	80	260	380	245	37	35	047 50/140-1.5/2	455	372	420	240	80	4-Φ14	80	212	350	140	25	35	072 50/315-30/2
023 40/200-0.55/4	410	460	370	320	80	4-Φ14	80	260	300	220	37	35	048 50/200-5.5/2	630	480	570	340	80	4-Φ14	100	260	500	240	37	35	073 50/300-22/2
024 40/185-0.37/4	410	460	370	320	80	4-Φ14	80	260	300																	

TKW HORIZONTAL INSTALLATION SIZE DIAGRAM



TKW HORIZONTAL INSTALLATION SIZE DIAGRAM

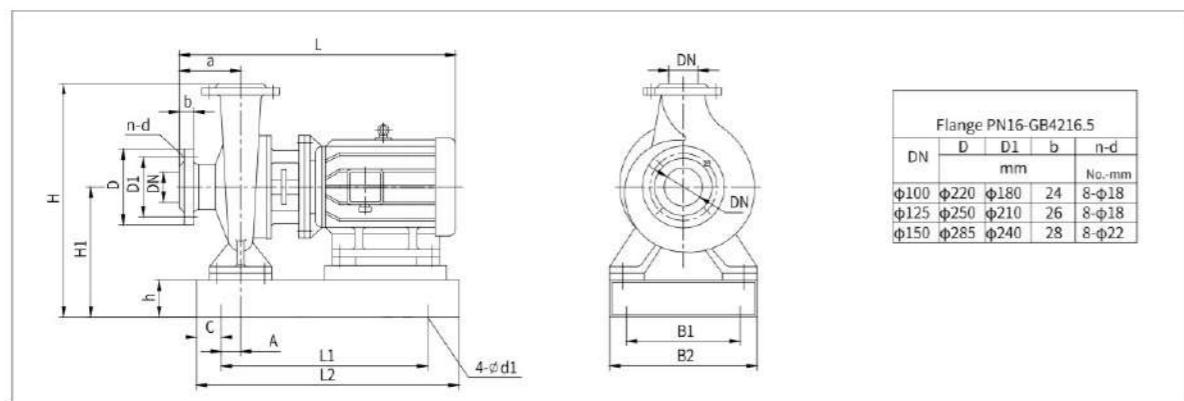


Model	Outline dimensions					Installing dimensions					Model	Outline dimensions					Installing dimensions					Model				
	L	H	L2	B2	h	4-Φd1	a	H1	L1	B1	A	C	L	H	L2	B2	h	4-Φd1	a	H1	L1	B1	A	C		
101 65/100-3/2	540	440	440	285	80	4-Φ14	100	240	370	185	25	35	126 80/185-11/2	780	520	630	365	100	4-Φ18	125	280	560	265	37	35	126 80/185-11/2
102 65/90-2.2/2	510	440	440	285	80	4-Φ14	100	240	370	185	25	35	127 80/170-7.5/2	665	520	630	365	100	4-Φ18	125	280	560	265	37	35	127 80/170-7.5/2
103 65/125-5.5/2	610	440	440	285	80	4-Φ14	100	240	370	185	25	35	128 80/250-22/2	865	520	630	365	100	4-Φ18	125	280	560	265	37	35	128 80/250-22/2
104 65/110-4/2	560	440	440	285	80	4-Φ14	100	240	370	185	25	35	129 80/235-18.5/2	835	520	630	365	100	4-Φ18	125	280	560	265	37	35	129 80/235-18.5/2
105 65/160-7.5/2	610	440	440	285	80	4-Φ14	100	240	370	185	25	35	130 80/220-15/2	780	520	630	365	100	4-Φ18	125	280	560	265	37	35	130 80/220-15/2
106 65/150-7.5/2	610	440	440	285	80	4-Φ14	100	240	370	185	25	35	131 80/315-37/2	920	585	710	410	100	4-Φ18	100	325	640	310	37	35	131 80/315-37/2
107 65/140-5.5/2	610	440	440	285	80	4-Φ14	100	240	370	185	25	35	132 80/300-30/2	920	585	710	410	100	4-Φ18	100	325	640	310	37	35	132 80/300-30/2
108 65/200-15/2	780	520	630	365	100	4-Φ18	125	280	560	265	37	35	133 80/285-30/2	920	585	710	410	100	4-Φ18	100	325	640	310	37	35	133 80/285-30/2
109 65/185-11/2	780	520	630	365	100	4-Φ18	125	280	560	265	37	35	134 80/270-22/2	850	585	630	365	100	4-Φ18	100	325	560	265	37	35	134 80/270-22/2
110 65/170-7.5/2	665	520	630	365	100	4-Φ18	125	280	560	265	37	35	135 80/125-0.75/4	460	440	360	265	80	4-Φ14	100	240	290	165	25	35	135 80/125-0.75/4
111 65/250-22/2	865	520	630	365	100	4-Φ18	125	280	560	265	37	35	136 80/110-0.55/4	460	440	360	265	80	4-Φ14	100	240	290	165	25	35	136 80/110-0.55/4
112 65/235-18.5/2	835	520	630	365	100	4-Φ18	125	280	560	265	37	35	137 80/160-1.1/4	485	440	360	265	80	4-Φ14	100	240	290	165	25	35	137 80/160-1.1/4
113 65/220-15/2	780	520	630	365	100	4-Φ18	125	280	560	265	37	35	138 80/150-0.75/4	460	440	360	265	80	4-Φ14	100	240	290	165	25	35	138 80/150-0.75/4
114 65/315-37/2	920	585	710	410	100	4-Φ18	100	325	640	310	37	35	139 80/200-2.2/4	580	500	450	345	80	4-Φ14	125	260	380	245	37	35	139 80/200-2.2/4
115 65/300-30/2	920	585	710	410	100	4-Φ18	100	325	640	310	37	35	140 80/185-1.5/4	550	500	450	345	80	4-Φ14	125	260	380	245	37	35	140 80/185-1.5/4
116 65/285-30/2	920	585	710	410	100	4-Φ18	100	325	640	310	37	35	141 80/250-3/4	580	500	450	345	80	4-Φ14	125	260	380	245	37	35	141 80/250-3/4
117 65/270-22/2	850	585	630	365	100	4-Φ18	100	325	560	265	37	35	142 80/235-2.2/4	580	500	450	345	80	4-Φ14	125	260	380	245	37	35	142 80/235-2.2/4
118 80/100-3/2	540	440	440	285	80	4-Φ14	100	240	370	185	25	35	143 80/220-1.5/4	550	500	450	345	80	4-Φ14	125	260	380	245	37	35	143 80/220-1.5/4
119 80/90-2.2/2	510	440	440	285	80	4-Φ14	100	240	370	185	25	35	144 80/315-5.5/4	635	565	450	345	80	4-Φ14	100	305	380	245	37	35	144 80/315-5.5/4
120 80/125-5.5/2	610	440	440	285	80	4-Φ14	100	240	370	185	25	35	145 80/300-4/4	585	565	450	345	80	4-Φ14	100	305	380	245	37	35	145 80/300-4/4
121 80/110-4/2	560	440	440	285	80	4-Φ14	100	240	370	185	25	35	146 80/285-3/4	570	565	450	345	80	4-Φ14	100	305	380	245	37	35	146 80/285-3/4
122 80/160-7.5/2	610	440	440	285	80	4-Φ14	100	240	370	185	25	35	147 80/100-5.5/2	640	490	570	340	80	4-Φ14	100	240	500	240	37	35	147 80/100-5.5/2
123 80/150-7.5/2	610	440	440	285	80	4-Φ14	100	240	370	185	25	35	148 80/90-4/2	590	490	570	340	80	4-Φ14	100	240	500	240	37	35	148 80/90-4/2
124 80/140-5.5/2	610	440	440</td																							

Catalog TKW/TKG

fifth-generation standard type pipe centrifugal pump

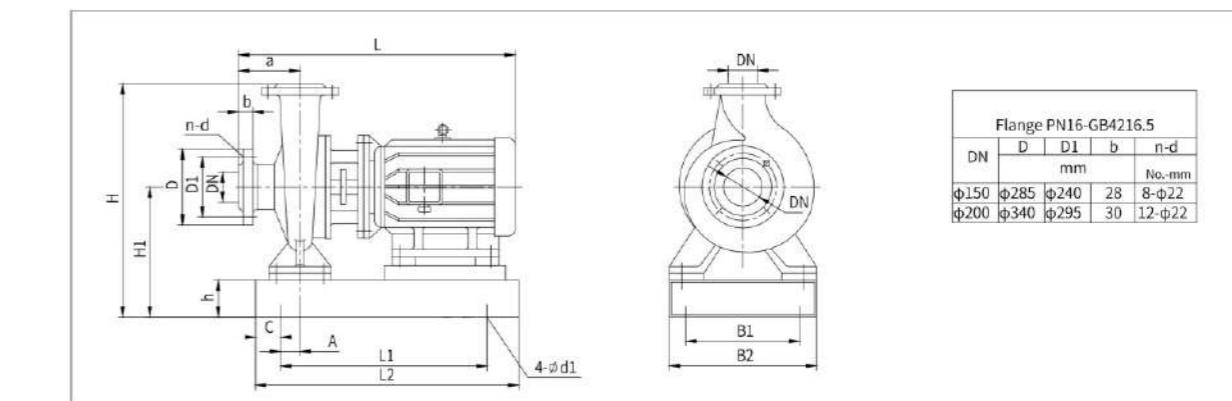
TKW HORIZONTAL INSTALLATION SIZE DIAGRAM



Catalog TKW/TKG

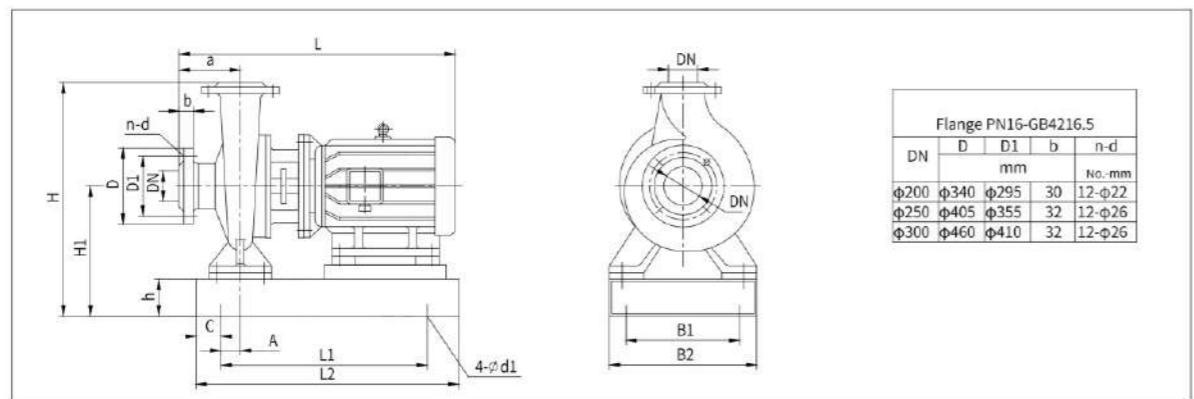
fifth-generation standard type pipe centrifugal pump

TKW HORIZONTAL INSTALLATION SIZE DIAGRAM

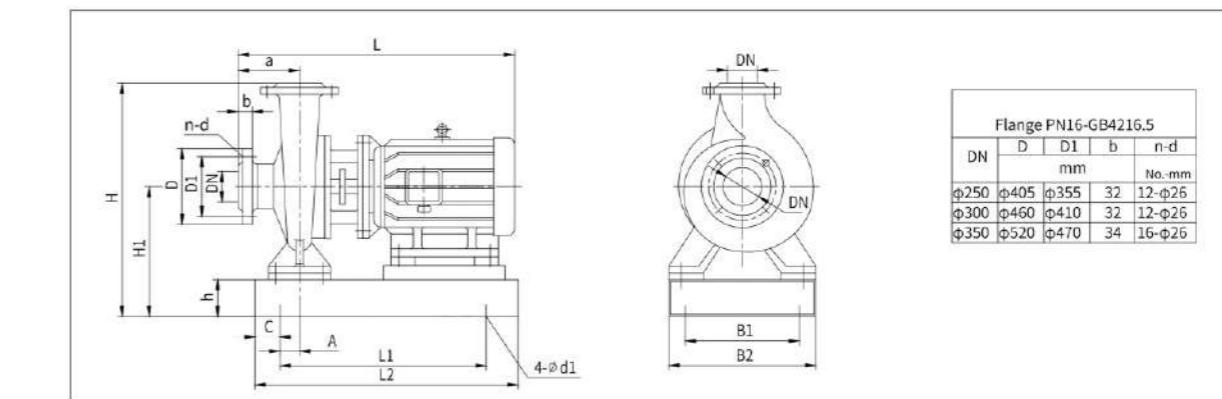


Model	Outline dimensions					Installing dimensions					Model	Outline dimensions					Installing dimensions					Model	Outline dimensions															
	L	H	L2	B2	h	4-Φd1	a	H1	L1	B1	A	C	L	H	L2	B2	h	4-Φd1	a	H1	L1	B1	A	C	L	H	L2	B2	h	4-Φd1	a	H1	L1	B1	A	C		
201 100/300-7.5/4	680	680	630	365	100	4-Φ18	125	350	560	265	37	35	226 125/250-11/4	790	590	600	410	80	4-Φ18	125	280	530	310	55	35	251 150/220-7.5/4	730	700	710	410	100	4-Φ18	140	350	640	310	55	35
202 100/285-5.5/4	680	680	630	365	100	4-Φ18	125	350	560	265	37	35	227 125/235-7.5/4	675	590	600	410	80	4-Φ18	125	280	530	310	55	35	252 150/315-22/4	935	760	820	510	100	4-Φ22	140	380	750	410	75	35
203 125/100-11/2	790	545	630	365	100	4-Φ18	125	280	560	265	37	35	228 125/220-5.5/4	675	590	600	410	80	4-Φ18	125	280	530	310	55	35	253 150/300-18.5/4	900	760	820	510	100	4-Φ22	140	380	750	410	75	35
204 125/90-7.5/2	675	545	630	365	100	4-Φ18	125	280	560	265	37	35	229 125/315-15/4	850	680	630	365	100	4-Φ18	125	350	560	265	37	35	254 150/285-15/4	870	760	820	510	100	4-Φ22	140	380	750	410	75	35
205 125/125-15/2	790	545	630	365	100	4-Φ18	125	280	560	265	37	35	230 125/300-11/4	800	680	630	365	100	4-Φ18	125	350	560	265	37	35	255 150/400-37/4	980	815	820	510	100	4-Φ22	140	415	750	410	75	35
206 125/110-11/2	790	545	630	365	100	4-Φ18	125	280	560	265	37	35	231 125/285-7.5/4	730	680	630	365	100	4-Φ18	125	350	560	265	37	35	256 150/370-30/4	960	815	820	510	100	4-Φ22	140	415	750	410	75	35
207 125/160-22/2	870	545	630	365	100	4-Φ18	125	280	560	265	37	35	232 125/400-30/4	975	780	820	510	100	4-Φ22	140	380	750	410	75	35	257 150/345-22/4	930	815	820	510	100	4-Φ22	140	415	750	410	75	35
208 125/150-18.5/2	840	545	630	365	100	4-Φ18	125	280	560	265	37	35	233 125/370-22/4	945	780	820	510	100	4-Φ22	140	380	750	410	75	35	258 150/510-75/4	1205	970	920	670	100	4-Φ22	180	470	670	620	-15	125
209 125/140-15/2	790	545	630	365	100	4-Φ18	125	280	560	265	37	35	234 125/345-18.5/4	905	780	820	510	100	4-Φ22	140	380	750	410	75	35	259 150/475-55/4	1130	950	860	650	100	4-Φ22	180	450	790	550	75	35
210 125/200-37/2	960	610	710	410	100	4-Φ18	125	300	640	310	55	35	235 150/160-22/2	870	545	630	365	100	4-Φ18	125	280	560	265	37	35	260 150/440-45/4	1070	950	860	650	100	4-Φ22	180	450	790	550	75	35
211 125/185-30/2	960	610	710	410	100	4-Φ18	125	300	640	310	55	35	236 150/150-18.5/2	840	545	630	365	100	4-Φ18	125	280	560	265	37	35	261 150/200-15/4	855	700	710	410	100	4-Φ18	140	350	640	310	55	35
212 125/170-22/2	890	610	710	410	100	4-Φ18	125	300	640	310	55	35	237 150/140-15/2	790	545	630	365	100	4-Φ18	125	280	560	265	37	35	262 150/185-11/4	800	700	710	410	100	4-Φ18	140	350	640	310	55	35
213 125/250-55/2	1070	680	820	510	100	4-Φ22	125	370	750	410	55	35	238 150/200-37/2	960	610	710	410	100	4-Φ18	125	300	640	310	55	35	263 150/250-18.5/4	885	700	720	510	100	4-Φ22	140	350	640	310	55	35
214 125/235-45/2	1010	655	750	450	100	4-Φ18	125	345	680	350	55	35	239 150/185-30/2	960	610	710	410	100	4-Φ18	125	300	640	310	55	35	264 150/235-15/4	855	700	710	410	100	4-Φ18	140	350	640	310	55	35
215 125/220-37/2	960	610	710	410	100	4-Φ18	125	300	640	310	55	35	240 150/170-22/2	890	610	710	410	100	4-Φ18	125	300	640	310	55	35	265 150/220-11/4	800	700	710	410	100	4-Φ18	140	350	640	310	55	35
216 125/315-90/2	1195	730	925	570	100	4-Φ22	125	400	675	520	-52	125	241 150/250-75/2	1150	750	880	570	100	4-Φ22	140	400	630	500	-35	125	266 150/315-30/4	965	760	820	510	100	4-Φ22	140	380	640	310	55	35
217 125/300-75/2	1145	730	880	570	100	4-Φ22	125	400	630	520	-52	125	242 150/235-55/2	1075	700	820	510	100	4-Φ22	140	350	750																

TKW HORIZONTAL INSTALLATION SIZE DIAGRAM

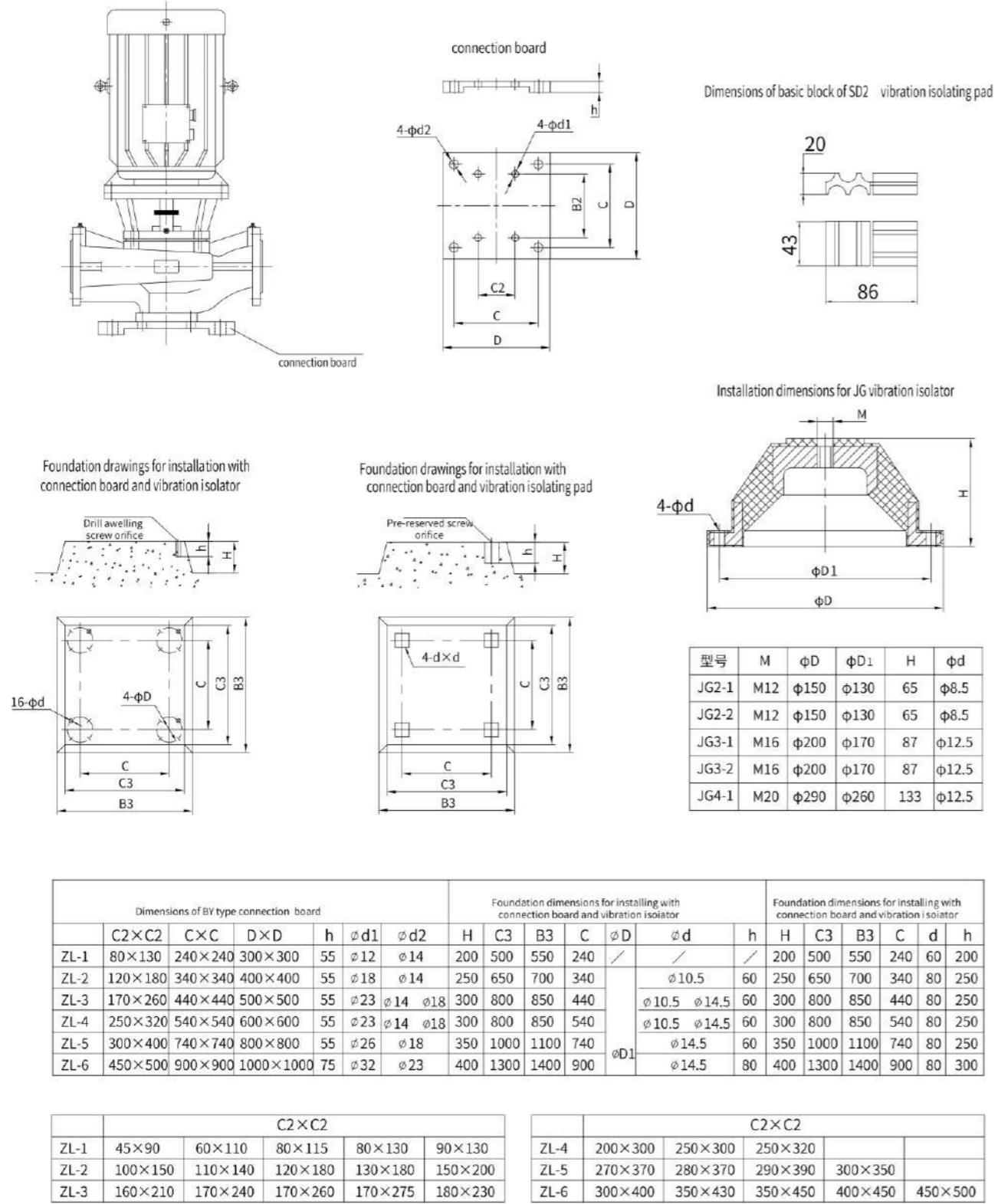


TKW HORIZONTAL INSTALLATION SIZE DIAGRAM

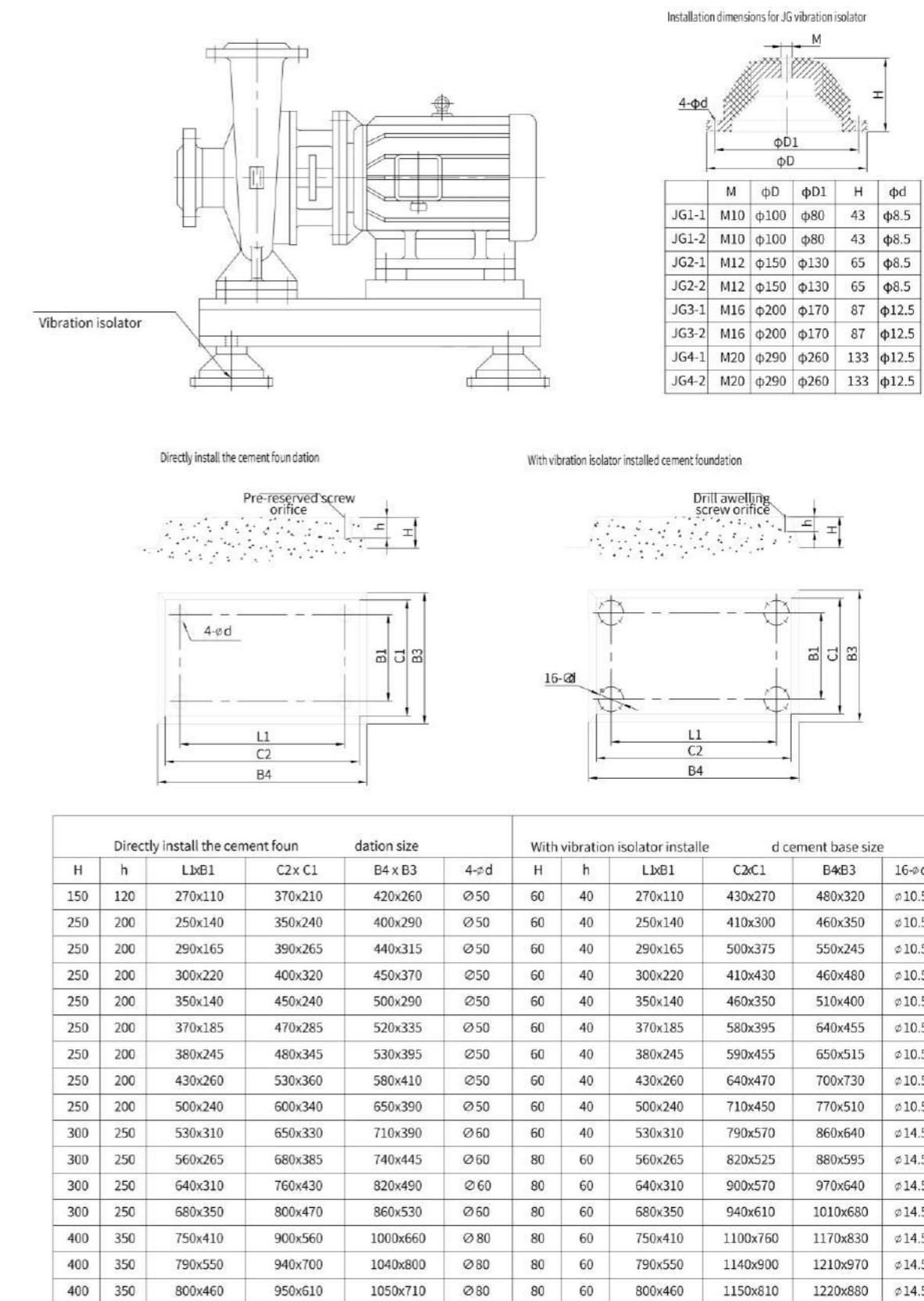


Model	Outline dimensions					Installing dimensions					Model	Outline dimensions					Installing dimensions					Model				
	L	H	L2	B2	h	4-d1	a	H1	L1	B1	A	C	L	H	L2	B2	h	4-d1	a	H1	L1	B1	A	C		
301 200/315-45/4	1050	835	820	510	100	4-Φ22	160	415	750	410	75	35	326	200/345-55/4	1110	855	870	560	100	4-Φ22	160	415	800	460	75	35
302 200/300-37/4	1010	835	820	510	100	4-Φ22	160	415	750	410	75	35	327	200/320-45/4	1050	855	870	560	100	4-Φ22	160	415	800	460	75	35
303 200/285-30/4	995	835	820	510	100	4-Φ22	160	415	750	410	75	35	328	200/510-132/4	1450	1040	1130	720	120	4-Φ26	160	500	880	660	-15	125
304 200/400-75/4	1190	875	920	570	100	4-Φ22	160	435	670	520	-15	125	329	200/475-110/4	1410	1040	1020	720	120	4-Φ26	160	500	770	660	-15	125
305 200/370-55/4	1110	855	870	560	100	4-Φ22	160	415	800	460	75	35	330	200/440-90/4	1235	1020	970	720	100	4-Φ22	160	480	720	670	-15	125
306 200/345-45/4	1050	855	870	560	100	4-Φ22	160	415	800	460	75	35	331	200/410-75/4	1185	1020	920	720	100	4-Φ22	160	480	670	670	-15	125
307 200/320-37/4	1010	855	870	560	100	4-Φ22	160	415	800	460	75	35	332	200/330-220/2	1405	835	1110	655	120	4-Φ26	140	455	860	595	-15	125
308 200/510-110/4	1410	1040	1020	720	120	4-Φ26	160	500	770	660	-15	125	333	200/310-200/2	1405	835	1110	655	120	4-Φ26	140	455	860	595	-15	125
309 200/475-90/4	1235	1020	970	720	100	4-Φ22	160	480	720	670	-15	125	334	200/285-132/2	1405	835	1110	655	120	4-Φ26	140	455	860	595	-15	125
310 200/440-75/4	1185	1020	920	720	100	4-Φ22	160	480	670	670	-15	125	335	250/290-45/4	1095	930	870	560	100	4-Φ22	200	430	800	460	75	35
311 200/280-37/4	1010	835	820	510	100	4-Φ22	160	415	750	410	75	35	336	250/310-55/4	1155	930	870	560	100	4-Φ22	200	430	800	460	75	35
312 200/300-37/4	1010	835	820	510	100	4-Φ22	160	415	750	410	75	35	337	250/360-75/4	1230	990	920	570	100	4-Φ22	200	450	670	520	-15	125
313 200/325-45/4	1050	835	820	510	100	4-Φ22	160	415	750	410	75	35	338	250/405-90/4	1280	990	970	570	100	4-Φ22	200	450	720	520	-15	125
314 200/350-55/4	1110	855	870	560	100	4-Φ22	160	415	800	460	75	35	339	250/200-30/4	1045	930	870	560	100	4-Φ22	200	430	800	460	75	35
315 200/395-75/4	1185	1020	920	720	100	4-Φ22	160	480	670	670	-15	125	340	250/185-22/4	1015	930	870	560	100	4-Φ22	200	430	800	460	75	35
316 200/200-22/4	960	780	820	510	100	4-Φ22	160	380	750	410	75	35	341	250/250-45/4	1095	930	870	560	100	4-Φ22	200	430	800	460	75	35
317 200/185-185/4	920	780	820	510	100	4-Φ22	160	380	750	410	75	35	342	250/235-37/4	1060	930	870	560	100	4-Φ22	200	430	800	460	75	35
318 200/250-30/4	990	780	820	510	100	4-Φ22	160	380	750	410	75	35	343	250/315-75/4	1230	950	920	570	100	4-Φ22	200	450	670	520	-15	125
319 200/235-22/4	960	780	820	510	100	4-Φ22	160	380	750	410	75	35	344	250/300-55/4	1155	930	870	560	100	4-Φ22	200	430	800	460	75	35
320 200/220-185/4	920	780	820	510	100	4-Φ22	160	380	750	410	75	35	345	250/285-45/4	1095	930	870	560	100	4-Φ22	200	430	800	460	75	35
321 200/315-55/4	1110	835	820	510	100	4-Φ22	160	415	750	410	75	35	346	250/400-110/4	1450	1010	1010	655	120	4-Φ26	200	470	760	595	-15	125
322 200/300-45/4	1050	835	820	510	100	4-Φ22	160	415	750	410	75	35	347	250/370-90/4	1280	990	970	570	100	4-Φ22	200	450	720	520	-15	125
323 200/285-37/4	1010	835	820	510	100	4-Φ22	160	415	750	410	75	35	348	250/345-75/4	1230	990	920	570	100	4-Φ22	200	450	670	520	-15	125
324 200/400-75/4	1185	1020	920	720	100	4-Φ22	160	480	670	670	-15	125	349	250/320-75/4	1230	990	920	570	100	4-Φ22	200	450	670	520	-15	125
325 200/370-75/4	1185	1020	920	720	100	4-Φ22	160	48																		

TKG VERTICAL MAP

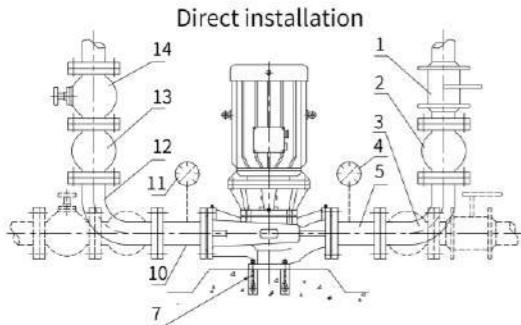


TKW HORIZONTAL MAP

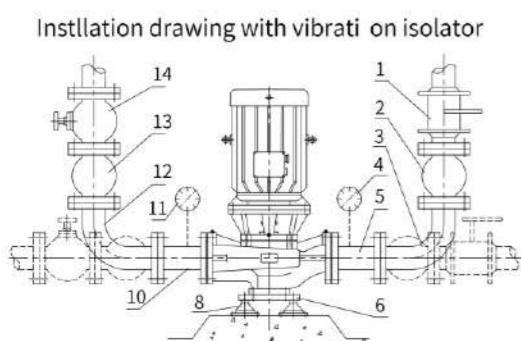


TKG VERTICAL INSTALLATION

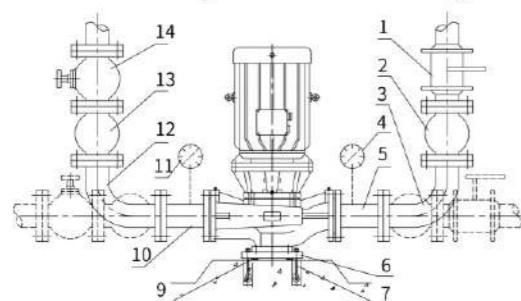
A few general installation modes



Direct installation

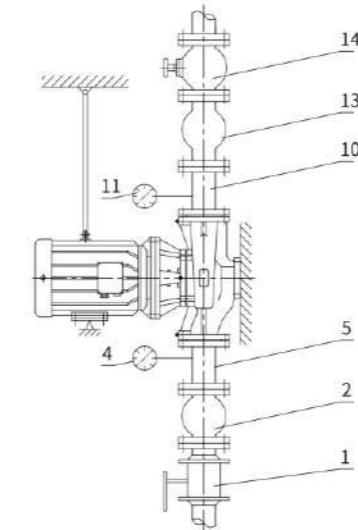


Installation drawing with vibration isolating pad

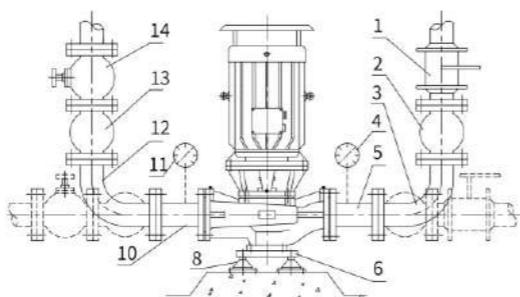


- | | | |
|---------------------------|---------------------------|----------------------------|
| 1. Inlet valve | 2. Inlet flexible joint | 3. Inlet elbow |
| 4. Inlet pressure gauge | 5. Inlet straight pipe | 6. connection board |
| 7. Ground bolt | 8. Vibration isolator | 9. Vibration isolating pad |
| 10. Outlet straight pipe | 11. Outlet pressure gauge | 12. Outlet elbow |
| 13. Outlet flexible joint | 14. Outlet control valve | |

Cantilever horizontal installation



Use out doors:adopt IP54 outdoor type motor

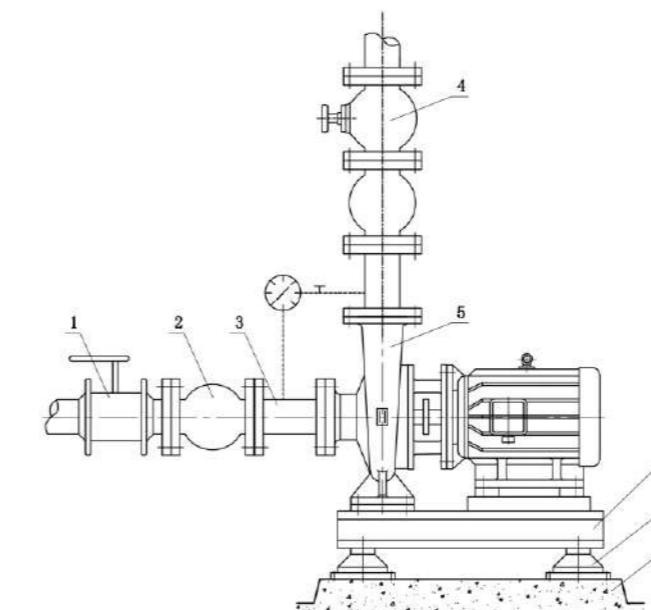
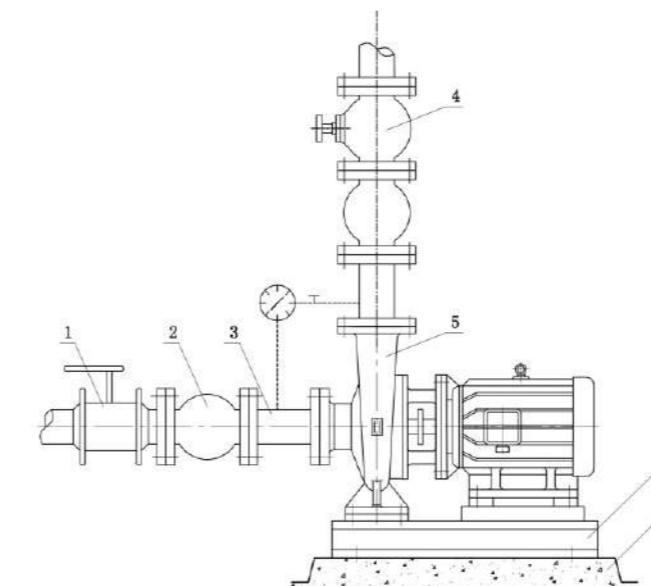


NOTE:

1. Installed with vibration isolator must with connection board.
2. We suggest not to employ cantilever horizontal just as well.
3. Include 1,2,3 three installation modes for outdoor usage.

TKW HORIZONTAL INSTALLATION

The two installation method of common



- 1. Inlet valve
- 2. Inlet flexible joint
- 3. inlet pipe
- 4. Outlet control valve
- 5. pump body
- 6. foot disc
- 7. Vibration isolator
- 8. cement foundation



PUMP INSTRUCTIONS

INSTALLATION

- Should be checked before installation: no blockage within the pump flow path, check the connections between pump and pipes, tighten all the bolts and make sure no looseness;
- Should install the control valve, pressure gauge on the pipes in inlet and outlet, equipped the flex joints on the flange connection. Can not directly added the weight of pipeline on the pump, to avoid the distortion, vibration, and noise;
- The selected pressure gauge should be 1.25~1.5 times of the pump's working condition (if no pressure at the inlet, the pressure gauge is not needed at the inlet.)
- Installation method (see No. Twelve)
- After installation, rotate the pump shaft, It should not be frictional. Everything is well, then prepare to connect the electric wire.

ADJUST, START, STOP

PREPARATION BEFORE ADJUSTING:

- 1. Ensure the wire connected, and tighten the connected ports to avoid lack of phase or short circuit;
- 2. Starting motor and confirm the motor rotation then stopped. From the top of motor, the correct rotation is clockwise.
- 3. Open exhaust valve, close outlet valve.
- 4. Open inlet valve, fill the water full of pump casing till water overflow from exhaust valve, then turn off the exhaust valve.
- 5. Check every parts (includes pipe, pump), to ensure no leakage.
- 6. To delivering hot water, pump needs to be preheated. The preheated speed is increase 50°C per hour and ensure every part warm evenly;

START:

- 1. Start motor till the speed turn to normal, then open the outlet valve slowly;
- 2. Observe the outlet pressure gauge, control the outlet pressure under the pump rated flow;
- 3. Normally adjust the outlet pressure as the three flow points on the usage manual, and test the current over the motor rated current or not. If current over, stop motor immediately;
- 4. Pump outlet valve can't opened with full size. When delivering huge flow, then can't work for long time.
- 5. When pump operating, regularly checking: pump's working temperature, motor's working current, to make sure everything is well. Maintain input and output unblocked of the cooling tank inside of hot water pump.

STOP:

- 1. Hot water pump should be lower the temperature, the decrease speed less than 10°C per minute till temperature under 80°C , then pump can be stopped.
- 2. Shut off the outlet valve, turn off motor;
- 3. Shut off the inlet valve; if not use for long time, the liquid pump inside should be drain off.

MAINTENANCE AND REPAIR

MAINTENANCE:

- 1. Inlet pipe must be filled with liquid, prohibit run for long time in the state of pump cavitation, can not be working without water even more!
- 2. Prohibit pump reverse rotating for long time;
- 3. Do the daily work of the pump check, to appear abnormal noise, vibration intensity is large, current overload, temperature rise is not normal should immediately stop it and check it again.

REPAIR:

- 1. Regularly check the pump's bearing lubrication. Normally running after 500 hours, plus lubricating oil. Running after 5000 hours, pump stopped and separated to wash and lubricate.
- 2. If pump long time no use, clean and dry the components, apply oil and seal it in a storehouse at a normal temperature;
- 3. To assemble the pump, it should follow the reverse order of disassembling without any missing of components, and wearing parts, such like bearing, mechanical seal and end face gasket ring, should be replaced during heavy repair.
- 4. To replace the motor's bearing, the specific disassembling tools should be used. First clean the bearing to be replaced and apply oil on it with a volume not larger than two thirds of the bearing oil chamber;
- 5. High-quality greasing should be adopted for oiling of the bearing chamber. It's not allowed to have any impurities in the grease or even use deteriorated grease.

■ 6. Detailed list of wearing parts

Motor base number	Bearing specification	Mechanical seal	Motor base number	Bearing specification	Mechanical seal
TKG					
80-2、4	6204	MG1-18	200-2、4	6312/7312	MG1-45
90-2、4	6205	MG1-20	225-2、4	6313/7313	MG1-45
100-2、4	6206	MG1-25	250-2、4	6314/7314	MG1-55
112-2、4	6306	MG1-25	280-2	6314/7314	MG1-55
132-2	6308	MG1-25	280-4	6317/7317	MG1-55
132-4	6308	MG1-35	315-2	6317/7317	MG1-55
160-2、4	6309	MG1-35	315-4	6319/7319	MG1-75
180-2	6311/7311	MG1-35	355-4	6322/7322	MG1-75
180-4	6311/7311	MG1-45			
Motor base number	Bearing specification	Mechanical seal	Motor base number	Bearing specification	Mechanical seal
TKW					
80-2、4	6204	MG1-18	200-2、4	6312	MG1-45
90-2、4	6205	MG1-20	225-2、4	6313	MG1-45
100-2、4	6206	MG1-25	250-2、4	6314	MG1-55
112-2、4	6306	MG1-25	280-2	6314	MG1-55
132-2	6308	MG1-25	280-4	6317	MG1-55
132-4	6308	MG1-35	315-2	NU317/6317	MG1-75
160-2、4	6309	MG1-35	315-4	NU319/6319	MG1-75
180-2	6311	MG1-35	355-4	NU322/6322	MG1-75
180-4	6311	MG1-45			



FAULT REASONS AND PROCESSING METHODS

Fault	Possible Reasons	Processing Methods
1. No water flow out	<ul style="list-style-type: none"> a) The inlet and outlet valves are not opened; the pipeline or impeller channel blocked. b) The motor running direction is wrong, lack of phase, the speed is very slow. c) The suction pipe leaks. d) The liquid is not full of pump, air inside pump chamber not drained off e) The inlet is short of water supply, the suction lift is too high, the bottom valve leaks. f) The pump resistance is excessive and pump type is not right. 	<ul style="list-style-type: none"> a) Check, and remove the clogging b) Adjust the motor's turning direction, and tighten the connected terminals. c) Tighten all sealing surfaces and exhaust air. d) Open outlet exhaust valve and refill water and exhaust. e) Stop pump and check, adjust the water supply and replace the bottom valve. f) Reduce the pipeline's turns and select a new pump.
2. The flow is deficient	<ul style="list-style-type: none"> a) Check the reasons as the step 1 first. b) The pipeline or impeller flow channel blocked, scale deposition and inadequate valve opening. c) The voltage is too low. d) The impeller is abraded 	<ul style="list-style-type: none"> a) Troubleshoot with the method as the step 1 first. b) Remove the blockage and readjust the valve's opening. c) Stabilize the voltage d) Replace the impeller.

Fault	Possible Reasons	Processing Methods
3. Power is excessive	<ul style="list-style-type: none"> a) Its working flow is beyond the rating. b) The suction lift is too high. c) The pump's bearing abraded. 	<ul style="list-style-type: none"> a) Adjust the flow, and turn down the outlet valve. b) Reduce the suction lift. c) Replace the bearing.
4. Noise and vibration	<ul style="list-style-type: none"> a) The pipeline support is not stable. b) The liquid is mixed with air. c) Cavitation d) The bearing is damaged. e) The motor runs in an overload and heating state. 	<ul style="list-style-type: none"> a) Stabilize the pipeline b) Increase the suction pressure, and exhaust the air. c) Reduce the vacuum degree d) Replace the bearing. e) Adjust as the step 5.
5. The motor heat	<ul style="list-style-type: none"> a) The flow is excessive with overload operation b) Scuffing c) The motor's bearing is damaged d) Under voltage 	<ul style="list-style-type: none"> a) Turn down the outlet valve b) Check and process it c) Replace the bearing d) Stabilize the voltage
6. The pump leaks	<ul style="list-style-type: none"> a) The mechanical seal is abraded. b) The pump body has sand holes or cracks. c) The seal surface is uneven d) The mounting bolts are loose 	<ul style="list-style-type: none"> a) Replace it. b) Weld it or replace it. c) Repair d) Fastening the bolt.

TKG/TKW

(FIVE) THE CHECK LIST OF THE 5G TKG/ SERIES PUMP MODEL AN ISG/ MODEL (1)

TKG/TKW MODEL	ISG/ ISW MODEL	TKG/TKW MODEL	ISG/ ISW MODEL
20/110-0.37/2	20-110	50/90-0.75/2	50-100A 40-100(I)A
20/160-1.1/2	20-160	50/100-1.1/2	50-100 40-100(I)
20/110-0.12/4	20-110	50/110-1.1/2	50-125A 40-125(I)A
20/160-0.18/4	20-160	50/125-1.5/2	50-125 40-125(I)
25/110-0.55/2	25-110	50/140-1.5/2	50-160B 40-160(I)B
25/115-0.55/2	25-125A	50/150-2.2/2	50-160A 40-160(I)A
25/125-0.75/2	25-125	50/160-3/2	50-160 40-160(I)
25/150-1.1/2	25-160A	50/170-3/2	50-200B 40-200(I)B
25/160-1.5/2	25-160	50/185-4/2	50-200A 40-200(I)A
25/110-0.12/4	25-110	50/200-5.5/2	50-200 40-200(I)
25/115-0.12/4	25-125A	50/220-7.5/2	50-250B 40-250(I)B
25/125-0.12/4	25-125	50/235-7.5/2	50-250A 40-250(I)A
25/150-0.18/4	25-160A	50/250-11/2	50-250 40-250(I)
25/160-0.25/4	25-160	50/100-0.12/4	50-100 40-100(I)
32/110-0.55/2	32-125A	50/110-0.18/4	50-125A 40-125(I)A
32/125-0.75/2	32-125	50/125-0.25/4	50-125 40-125(I)
32/110-0.12/4	32-125A	50/150-0.25/4	50-160A 40-160(I)A
32/125-0.18/4	32-125	50/160-0.55/4	50-160 40-160(I)
40/90-0.37/2	40-100A	50/185-0.55/4	50-200A 40-200(I)A
40/100-0.55/2	40-100	50/200-0.75/4	50-200 40-200(I)
40/110-0.75/2	40-125A	50/220-0.75/4	50-250B 40-250(I)
40/125-1.1/2	40-125	50/235-1.1/4	50-250A 40-250(I)A
40/140-1.1/2	40-160B	50/250-1.5/4	50-250 40-250(I)
40/150-1.5/2	40-160A	65/90-1.1/2	65-100A 50-100(I)A
40/160-2.2/2	40-160	65/100-1.5/2	65-100 50-100(I)
40/170-2.2/2	40-200B	65/110-2.2/2	65-125A 50-125(I)A
40/185-3/2	40-200A	65/125-3/2	65-125 50-125(I)
40/200-4/2	40-200	65/140-3/2	65-160B 50-160(I)B
40/220-4/2	40-250B	65/150-4/2	65-160A 50-160(I)A
40/235-5.5/2	40-250A	65/160-4/2	65-160 50-160(I)
40/250-7.5/2	40-250	65/170-5.5/2	65-200B 50-200(I)B
40/100-0.12/4	40-100	65/185-7.5/2	65-200A 50-200(I)A
40/110-0.12/4	40-125A	65/200-7.5/2	65-200 50-200(I)
40/125-0.18/4	40-125	65/220-11/2	65-250B 50-250(I)B
40/150-0.18/4	40-160A	65/235-11/2	65-250A 50-250(I)A
40/160-0.25/4	40-160	65/250-15/2	65-250 50-250(I)
40/185-0.37/4	40-200A	65/270-15/2	65-315C 50-315(I)C
40/200-0.55/4	40-200	65/285-18.5/2	65-315B 50-315(I)B
40/220-0.55/4	40-250B	65/300-22/2	65-315A 50-315(I)A
40/235-0.75/4	40-250A	65/315-30/2	65-315 50-315(I)
40/250-1.1/4	40-250	65/100-0.25/4	65-100 50-100(I)

TKG/TKW

(FIVE) THE CHECK LIST OF THE 5G SERIES PUMP MODEL AN MODEL (2)

TKG/TKW MODEL	ISG/ ISW MODEL	TKG/TKW MODEL	ISG/ ISW MODEL
65/110-0.25/4	65-125A 50-125(I)A	80/315-5.5/4	80-315 65-315(I)
65/125-0.37/4	65-125 50-125(I)	80/310-37/2	80-350B
65/150-0.37/4	65-160A 50-160(I)A	80/330-45/2	80-350A
65/160-0.55/4	65-160 50-160(I)	80/350-55/2	80-350
65/185-0.75/4	65-200A 50-200(I)A	100/90-4/2	100-100A 80-100(I)A
65/200-1.1/4	65-200 50-200(I)	100/100-5.5/2	100-100 80-100(I)
65/220-1.1/4	65-250B 50-250(I)B	100/110-7.5/2	100-125A 80-100(I)
65/235-1.5/4	65-250A 50-250(I)A	100/125-11/2	100-125 80-125(I)
65/250-2.2/4	65-250 50-250(I)	100/140-11/2	100-160B 80-160(I)B
65/285-3/4	65-315B 50-250(I)B	100/150-11/2	100-160A 80-160(I)A
65/300-3/4	65-315A 50-315(I)A	100/160-15/2	100-160 80-160(I)
65/315-4/4	65-315 50-315(I)	100/170-15/2	100-200B 80-200(I)B
80/90-2.2/2	80-100A 65-100(I)A	100/185-18.5/2	100-200A 80-200(I)A
80/100-3/2	80-100 65-100(I)	100/200-22/2	100-200 80-200(I)
80/110-4/2	80-125A 65-125(I)A	100/220-30/2	100-250B 80-250(I)B
80/125-5.5/2	80-125 65-125(I)	100/235-30/2	100-250A 80-250(I)A
80/140-5.5/2	80-160B 65-160(I)B	100/250-37/2	100-250 80-250(I)
80/150-7.5/2	80-160A 65-160(I)A	100/270-37/2	100-315C 80-315(I)C
80/160-7.5/2	80-160 65-160(I)	100/285-45/2	100-315B 80-315(I)B
80/170-7.5/2	80-200B 65-200(I)B	100/300-55/2	100-315A 80-315(I)A
80/185-11/2	80-200A 65-200(I)A	100/315-75/2	100-315 80-315(I)
80/200-15/2	80-200 65-200(I)	100/310-55/2	100-350B
80/220-15/2	80-250B 65-250(I)B	100/330-75/2	100-350A
80/235-18.5/2	80-250A 65-200(I)A	100/350-90/2	100-350
80/250-22/2	80-250 65-250(I)	100/100-0.75/4	100-100 80-100(I)
80/270-22/2	80-315C 65-315(I)C	100/110-1.1/4	100-125A 80-125(I)A
80/285-30/2	80-315B 65-315(I)B	100/125-1.1/4	100-125 80-125(I)
80/300-30/2	80-315A 65-315(I)A	100/150-1.5/4	100-160A 80-160(I)A
80/315-37/2	80-315 65-315(I)	100/160-2.2/4	100-160 80-160(I)
80/100-0.37/4	80-100 65-100(I)	100/185-2.2/4	100-200A 80-200(I)A
80/110-0.55/4	80-125A 65-125(I)A	100/200-3/4	100-200 80-200(I)
80/125-0.75/4	80-125 65-125(I)	100/220-3/4	100-250B 80-250(I)B
80/150-0.75/4	80-160A 65-160(I)A	100/235-4/4	100-250A 80-250(I)A
80-160-1.1/4	80-160 65-160(I)	100/250-5.5/4	100-250 80-250(I)
80/185-1.5/4	80-200A 65-200(I)A	100/285-5.5/4	100-315B 80-315(I)B
80/200-2.2/4	80-200 65-200(I)	100/300-7.5/4	100-315A 80-315(I)A
80/220-1.5/4	80-250B 65-250(I)B	100/315-11/4	100-315 80-315(I)
80/235-2.2/4	80-250A 65-250(I)A	125/90-7.5/2	125-100A
80/250-3/4	80-250 65-250(I)	125/100-11/2	125-100 100-100(I)
80/285-3/4	80-315B 65-315(I)B	125/110-11/2	125-125A 100-125(I)A
80/300-4/4	80-315A 65-315(I)A	125/125-15/2	125-125 100-125(I)

(FIVE) THE CHECK LIST OF THE 5G SERIES PUMP MODEL AN MODEL (3)

TKG/TKW MODEL	ISG/ ISW MODEL
125/140-15/2	125-160B
125/150-18.5/2	125-160A 100-160(I)A
125/160-22/2	125-160 100-160(I)
125/170-22/2	125-200B 100-200(I)B
125/185-30/2	125-200A 100-200(I)A
125/200-37/2	125-200 100-200(I)
125/220-37/2	125-250B 100-250(I)B
125/235-45/2	125-250A 100-250(I)A
125/250-55/2	125-250 100-250(I)
125/125-2.2/4	100-125 (I)
125/150-3/4	100-160 (I) A
125/160-4/4	100-160 (I)
125/185-4/4	100-200 (I) A
125/200-5.5/4	100-200 (I)
125/220-5.5/4	100-250 (I) B
125/235-7.5/4	100-250 (I) A
125/250-11/4	100-250 (I)
125/285-7.5/4	100-315 (I) B
125/300-11/4	100-315 (I) A
125/315-15/4	100-315 (I)
125/320-15/4	100-400 (I) C
125/345-18.5/4	100-400 (I) B
125/370-22/4	100-400 (I) A
125/400-30/4	100-400 (I)
150/140-15/2	150-160B 125-160B
150/150-18.5/2	150-160A 125-160A
150/160-22/2	150-160 125-160
150/170-22/2	150-200B(G) 125-200B
150/185-30/2	150-200A(G) 125-200A
150/200-37/2	150-200(G) 125-200
150/220-45/2	150-250B(G)
150/235-55/2	150-250A(G)
150/250-75/2	150-250(G)
150/285-75/2	150-315B(G)
150/300-90/2	150-315A(G)
150/315-110/2	150-315(G)
150/185-11/4	150-200A 200-200A
150/200-15/4	150-200 200-200
150/220-11/4	150-250-B 200-250B
150/235-15/4	150-250-A 200-250A
150/250-18.5/4	150-250 200-250

(FIVE) THE CHECK LIST OF THE 5G SERIES PUMP MODEL AN MODEL (4)

TKG/TKW MODEL	ISG/ ISW MODEL	TKG/TKW MODEL	ISG/ ISW MODEL
150/285-18.5/4	150-315B 200-315B	300/260-55/4	300-300B
150/300-22/4	150-315A 200-315A	300/280-75/4	300-300A
150/315-30/4	150-315 200-315	300/300-75/4	300-300
150/320-22/4	150-400C 200-400C	300/270-55/4	300-315B
150/345-30/4	150-400B 200-400B	300/295-75/4	300-315A
150/370-37/4	150-400A 200-400A	300/315-90/4	300-315
150/400-45/4	150-400 200-400	300/345-90/4	300-400B
150/440-45/4	150-500B	300/370-110/4	300-400A
150/475-55/4	150-500A	300/400-132/4	300-400
150/510-75/4	150-500	300//440-160/4	300-500B
150/310-75/2	150-350B	300//470-200/4	300-500A
150/330-90/2	150-350A	300/500-250/4	300-500
150/350-110/2	150-350	350/300-75/4	350-315A
200/185-18.5/4	200-200(I)A	350/315-110/4	350-315
200/200-22/4	200-200(I)	350/345-110/4	350-400B
200/220-18.5/4	200-250(I)B	350/370-132/4	350-400A
200/235-22/4	200-250(I)A	350/400-160/4	350-400
200/250-30/4	200-250(I)	350/425-132/4	350-500C
200/285-37/4	200-315(I)B	350/450-160/4	350-500B
200/300-45/4	200-315(I)A	350/470-200/4	350-500A
200/315-55/4	200-315(I)	350/500-250/4	350-500
200/320-45/4	200-400(I)C		
200/345-55/4	200-400(I)B		
200/370-75/4	200-400(I)A		
200/400-75/4	200-400(I)		
200/410-75/4	200-500(I)C		
200/440-90/4	200-500(I)B		
200/475-110/4	200-500(I)A		
200/510-132/4	200-500(I)		
250/235-37/4	250-250A		
250/250-45/4	250-250		
250/285-45/4	250-315B		
250/300-55/4	250-315A		
250/345-75/4	250-400B		
250/370-90/4	250-400A		
250/400-110/4	250-400		
300/220-37/4	300-235B		
300/235-45/4	300-235A		
300/250-55/4	300-235		