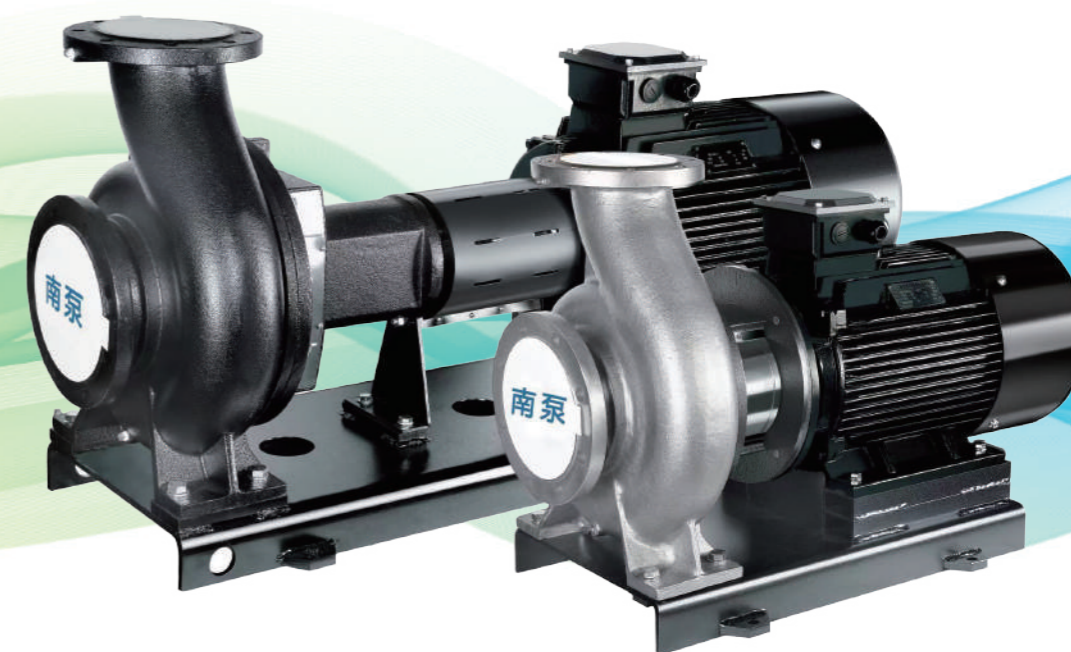




**NISO/NIS/NISF**

**50Hz**

End suction pump



**Zhejiang Nanbeng Fluid Machinery Co.,Ltd.**

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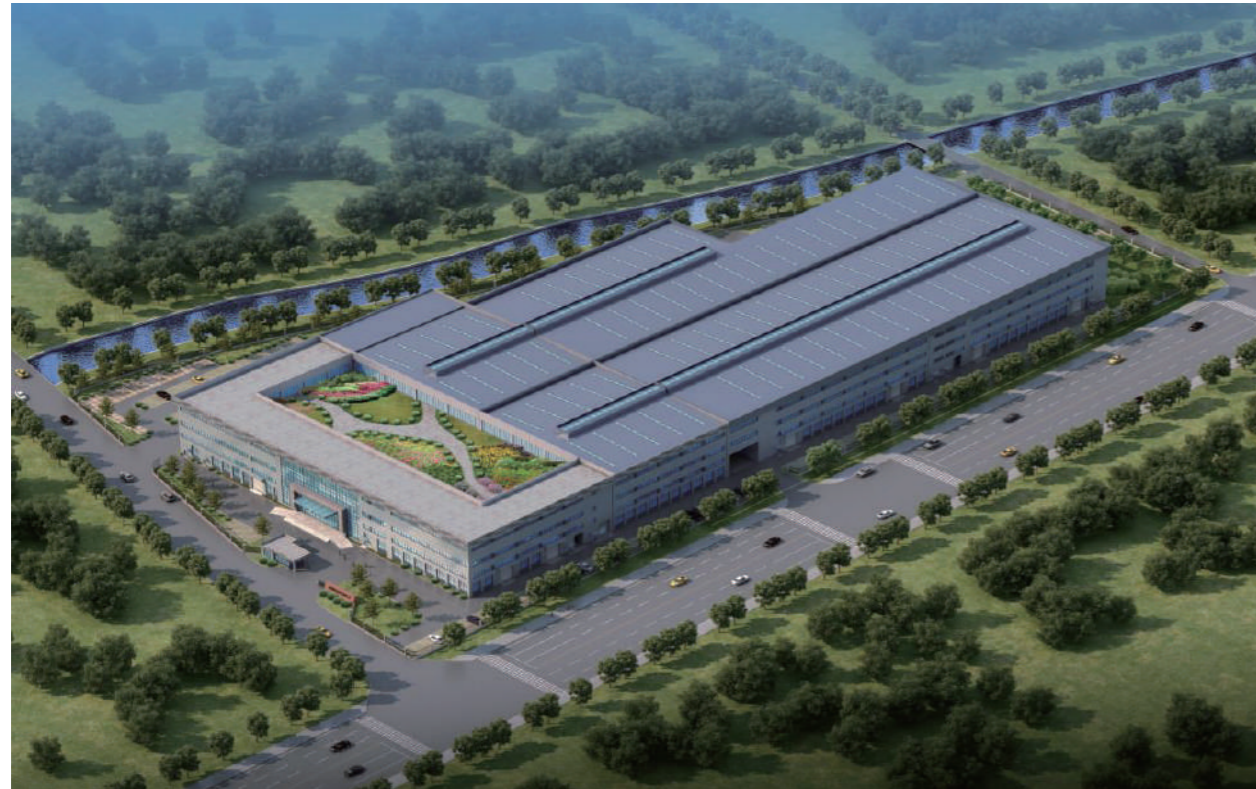
E230103



Subject to amendments

**ZHEJIANG NANBENG FLUID MACHINERY CO.,LTD.**

# Company Profile



Zhejiang Nanbeng Fluid Machinery Co.,Ltd. is a leading pump manufacturer committed to the Chinese people's water safety to make our own contribution. The team who founded the company is the first generation research and development of stainless steel centrifugal pump in China, has accumulated more than 30 years of technology research and development experience, core members presided over and participated in the development of national standard of the "light, small multistage centrifugal pump", national science and technology support plans for the 11th, 12th and 13th five-years plan, "national torch project", "national key new product project" and other projects of research and development, design and production. R&D centre equipped with industry-leading CFD fluid 3D simulation design software, domestic top stamping equipment and automatic production line to ensure high performance and high stability of products, our comprehensive R & D and production strength achieve domestic advanced level.

The construction area of the company is 82,000 square meters, design output value is one billion per year. We can offer you a wide range of stainless steel stamping and welding centrifugal pump, pipeline circulation pump, end suction centrifugal pump, sewage submersible pump, high pressure pump, fire pump and water supply and drainage complete sets of products for many applications as highest performance in booster sets and pressurization, building services, water treatment, industry, irrigation and industrial process, fire-fighting sets, pumping of underground water, drainage and sewage, utilities and desalination. Now we are looking for more partners around the world, we sincerely looking forward to your joining at Huzhou China. Global water challenges as well as opportunities, require excellence in pumping technologies and close cooperation between pump designers and manufacturers. Let's cooperate and make our contribution to the water security for more people all over the world.

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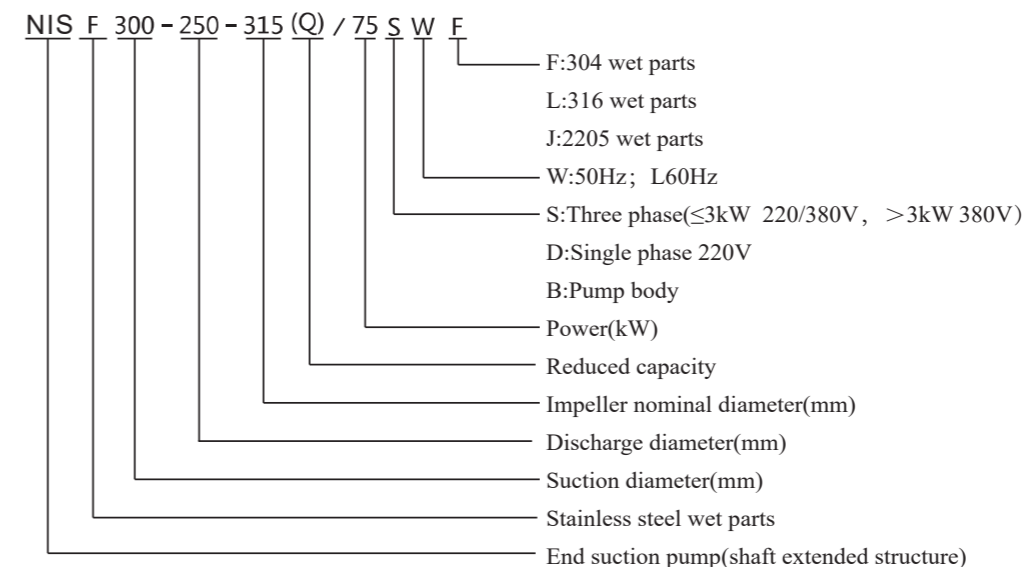
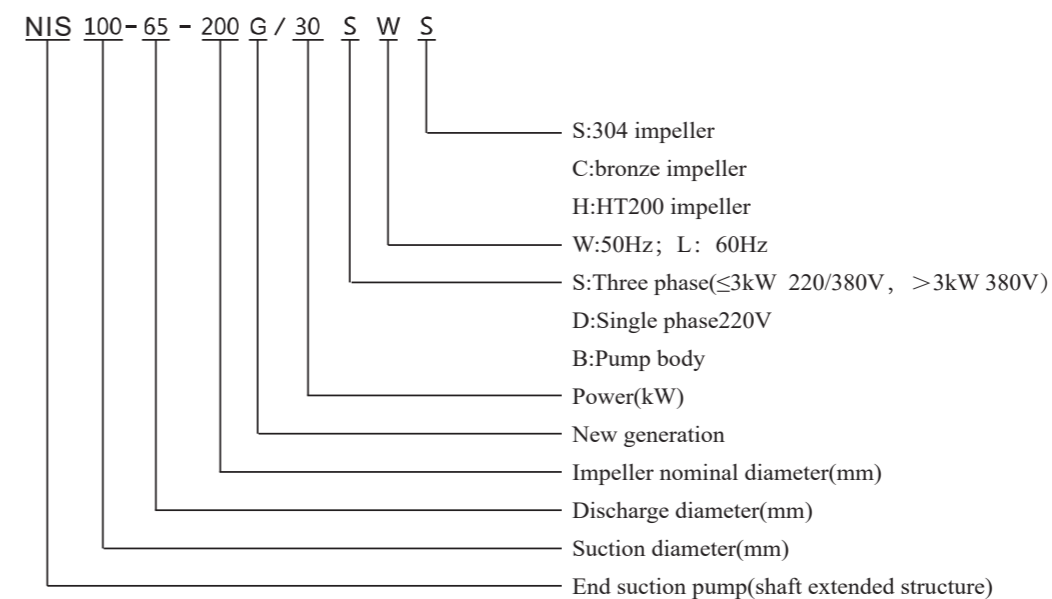
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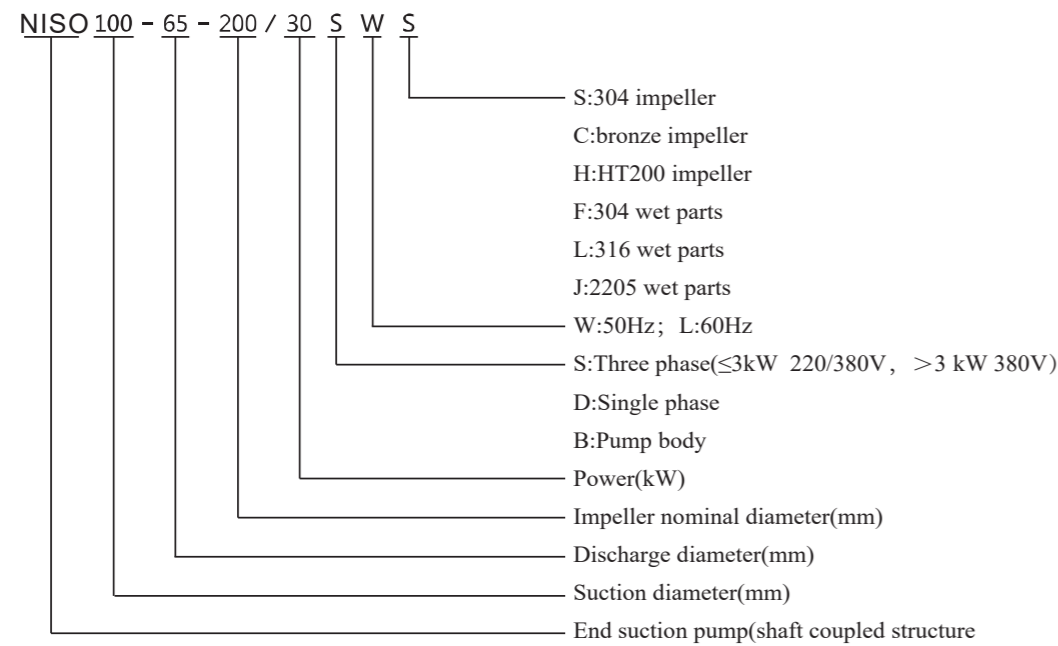
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Model definition



### Model definition



### Minimum inlet pressure NPSH

In case that the pressure in pump is lower than the steam pressure used to convey liquid, the cavitations will occur. To avoid cavitation, a minimum pressure at the inlet side of the pump shall be guaranteed. The maximum suction can be calculated with the following formula:

$$H = P_b \times 10.2 - NPSH - H_f - H_v - H_s$$

H- Maximum suction head(m)

P<sub>b</sub>- Atmosphere pressure(bar)

In a closed system,P<sub>b</sub> means system pressure(bar)

NPSH- Net positive suction head(m)

It can be read from the point of Max.flow rate shown onNPSH curve.

H<sub>f</sub>- Pipeline loss at the inlet(m)

It is in accordance with the pipeline possible Max.flow.

H<sub>v</sub>- Steam pressure(m)

It depends on liquid temperature and steam pressure value.

H<sub>s</sub>- Safety margin(m)

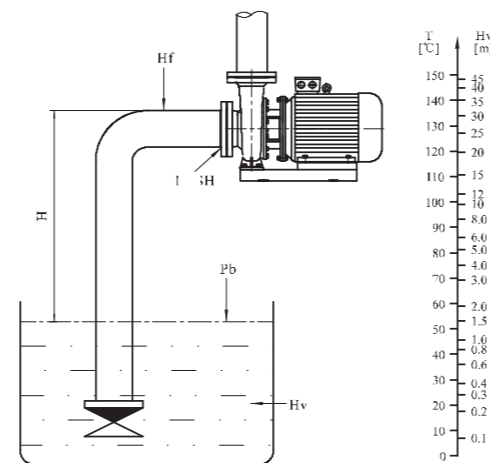
Minimum 0.5m delivery head.

If the calculated result H is positive ,the pump may run under the Max.suction head H.In case the calculated result H is negative, a delivery head of Min.inlet pressure is necessary.

NOTE: Normally, the above calculation will not be done.

H is calculated in the following conditions:

- 1.The liquid temperature is comparatively higher;
- 2.Liquid flow exceeds rated value;
- 3.Suction head is comparatively large or inlet pipeline long;
- 4.System pressure is too low;
- 5.Bad inlet condition.



### Applications

- Clean, thin, non-corrosive, non-flammable or nonexplosive liquid without grain or fiber.
- Water supply system
- HVAC system
- Booster and constant water supply system
- Fire sprinkler system
- Irrigation and farming
- Industrial cooling and heat circulation system
- Industrial transferring and drainage system

### Pump structure

- Non-self-priming, single stage, single suction, horizontal axial suction and radical discharge, pump body is fixed by base.
- Standard wear-resistant mechanical seal.
- TEFC motor, size complies to IEC standard.
- NISO pump use bearing cradle,which can orientate bearing, prevent from axial vibration, improve the rigidity of rotary part.
- NISO pump integral pump shaft, use deep groove grease lubricated bearing.
- NISO pump use semi-flexible coupling to connect pump and motor.
- NISO pump dimension conforms to ISO2858 standard.
- NIS,NISF series pump are coupled with extension shaft structure.
- Inlet and outlet flange and pump body of cast iron pump conform to standard of PN16 in GB/T17241.6 (ISO7005-2); Inlet and outlet flange and pump body of Stainless Steel pump conform to standard of PN16 in GB/T9113 (ISO7005-1).

### Features

- Adopt Pull-back structure, avoid dismantling pump body and pipeline when repairing.
- All NISO pump only use 4 types of pump shafts and bearing cover, making many parts exchangeable.
- Designs of NIS,NISO,NISF series impellers are optimized, inlet is enlarged, no whirlpool, deduct water pump NPSH efficiently, which makes pump work stable with little noise. Performance curve is flat, flow range is wide, performance is similar with international pump industry peers.
- NIS\*G,NIS\*(Q) series pump are designed according to newest standard in GB/T5662, whose performance curve are steeper than NIS,NISO,NISF series. Flow range conforms to requirements, use excellent hydraulic model and CFD optimization, high efficiency, reasonable head spread, compact structure, easy maintenance.
- NIS,NISF pumps are small,compact and easy to install.

### Performance data

- Max flow rate: 1 600m<sup>3</sup>/h
- Max head: 1 60m
- Max working pressure: 1 60bar
- Max inlet pressure: 6 bar
- Max power: 2 00kW
- Liquid temperature: - 15°C-110°C
- Inlet outlet diameter: Inlet diameter: DN50-DN350  
Outlet diameter: DN32-DN300

### Curve conditions

Following conditions are suitable for the performance curves shown above.

- Curve tolerance in conformity with ISO9906:2012, Grade 3B.
- All curves are based on the measured values of motor under the constant speed of 2900rpm, 1450rpm or 1480rpm;
- Measurement is done with 20°C air-free water, without impurities, kinematic viscosity is 1mm<sup>2</sup>/s
- The operation of pump shall refer to the performance region indicated by the thickened curve to prevent overheating due to too small flow rate or overload of motor due to too large flow rate.
- If the thickness and density of the pumped liquid . is different from water ,the motor power should be adjusted.

### Working conditions

#### Relative humidity of pump

- The pump is specifically designed for installation in non-corrosive and non-explosive environments with a relative humidity of no more than 95%.

#### Ambient humidity and altitude

- Ambient humidity and installation altitude are important factors influencing motor service life as they also affect the life of bearings and insulation systems.
- The installation altitude is the height at which the installation location is above sea level. If the ambient temperature exceeds the recommended maximum Value, or if the installation height exceeds the recommended maximum altitude, aircooling effect may be poor due to low density and the motor shall not be operated at full capacity. In this case, choose a motor with a higher output power.

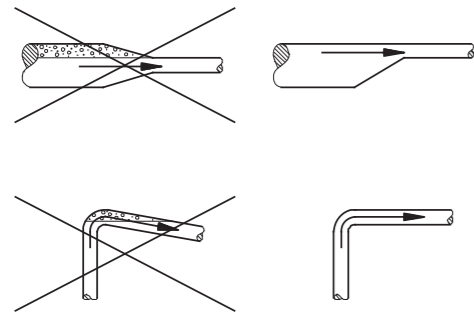
### Motor parameter

Standard motor

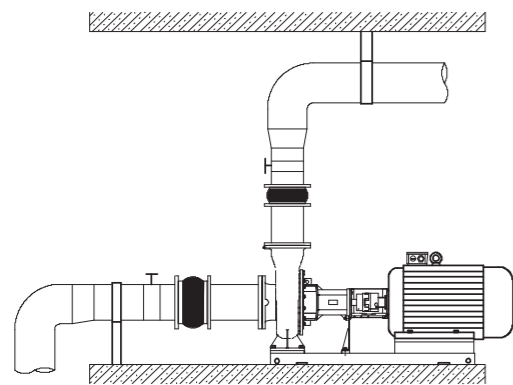
- TEFC motor, size complies to GB/28575 standard.
- 50Hz,3P H; 2-pole and 4-pole motor for standard configuration.

**Pipeline conditions**

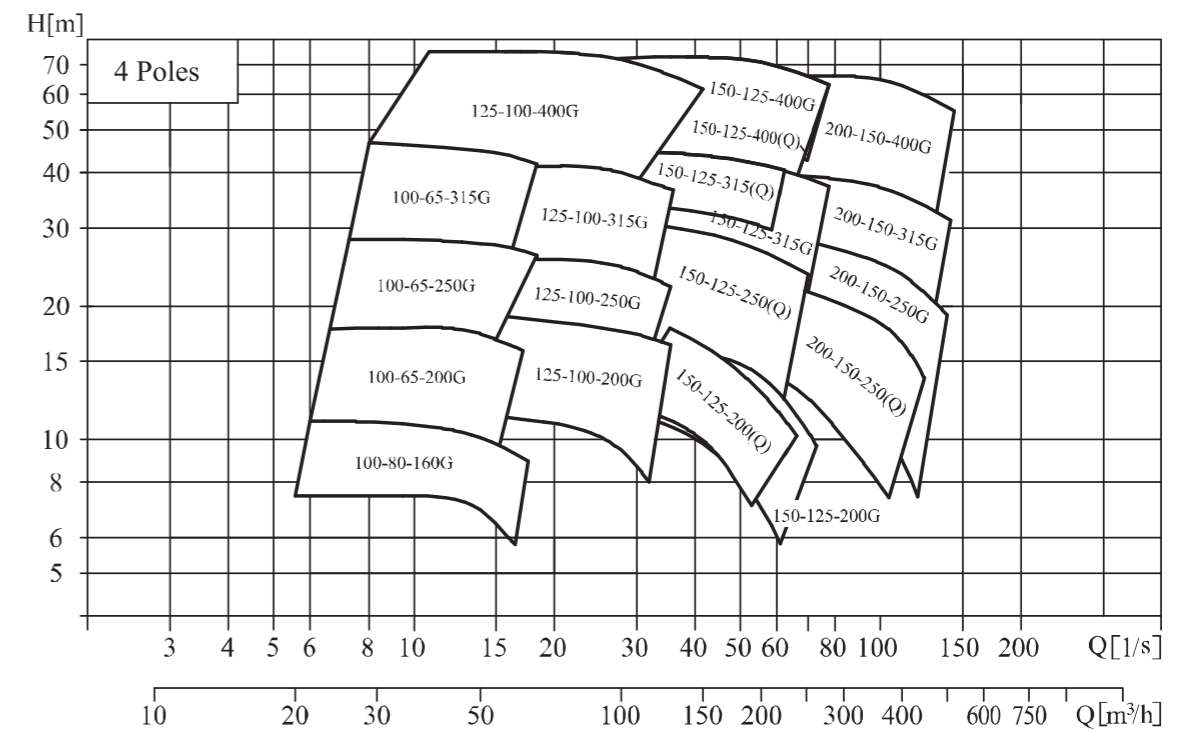
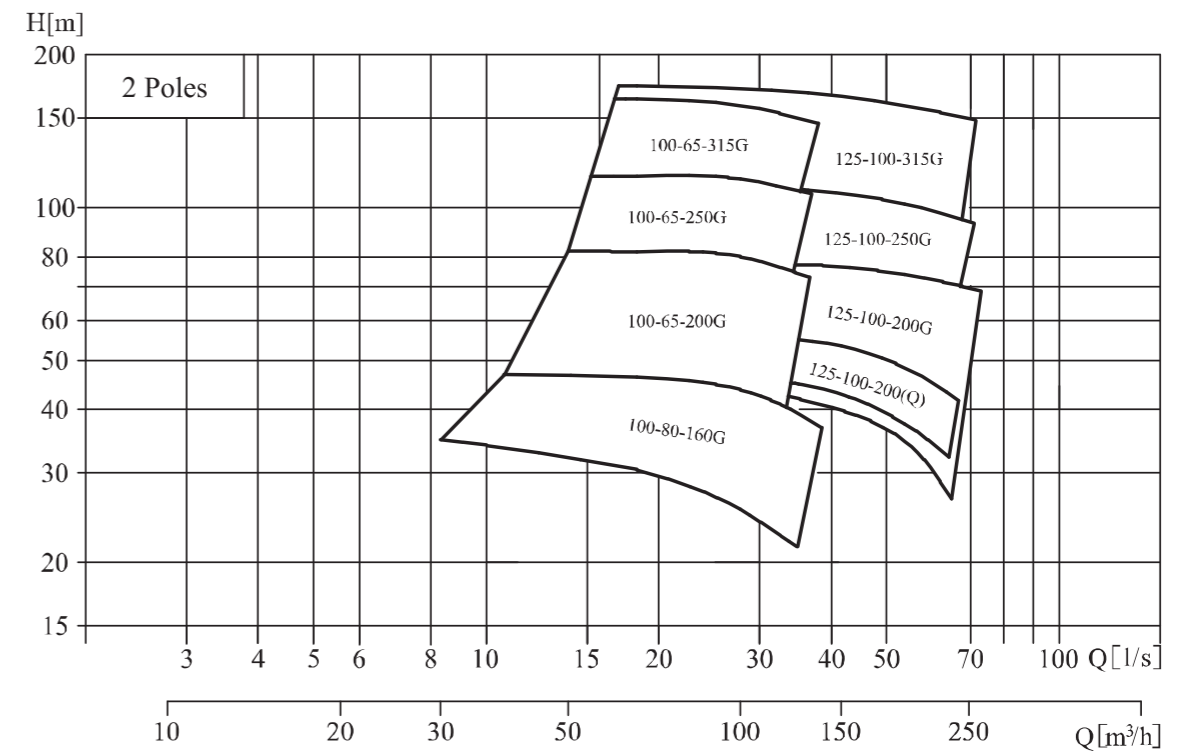
- Pump casing must not be subjected to pipe pressure when installing the pipe.
- The suction and drain pipes must be sized appropriately and the inlet pressure of the pump needs to be considered.
- Install the pipe to avoid air blockage, especially on the inlet side of the pump. See picture below.



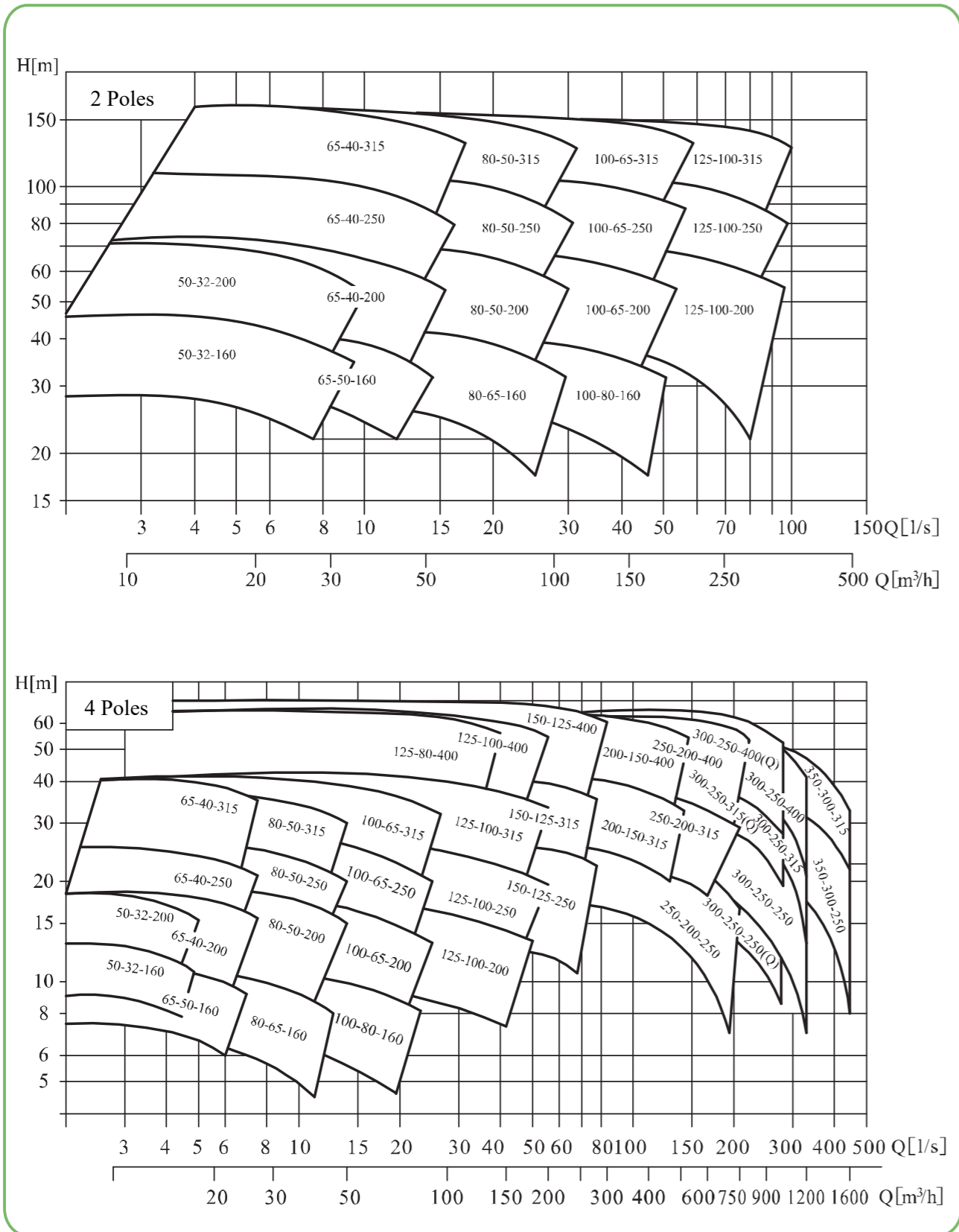
- Install an isolation valve on each end of the pump so that the system does not have to be drained when cleaning or repairing the pump.
- Ensure that the pipe is sufficiently supported (inlet and outlet side) as close as possible to the pump. The butt flange should be attached to pump flange without being subjected to tensile stresses, as the presence of tensile stress can damage the pump.



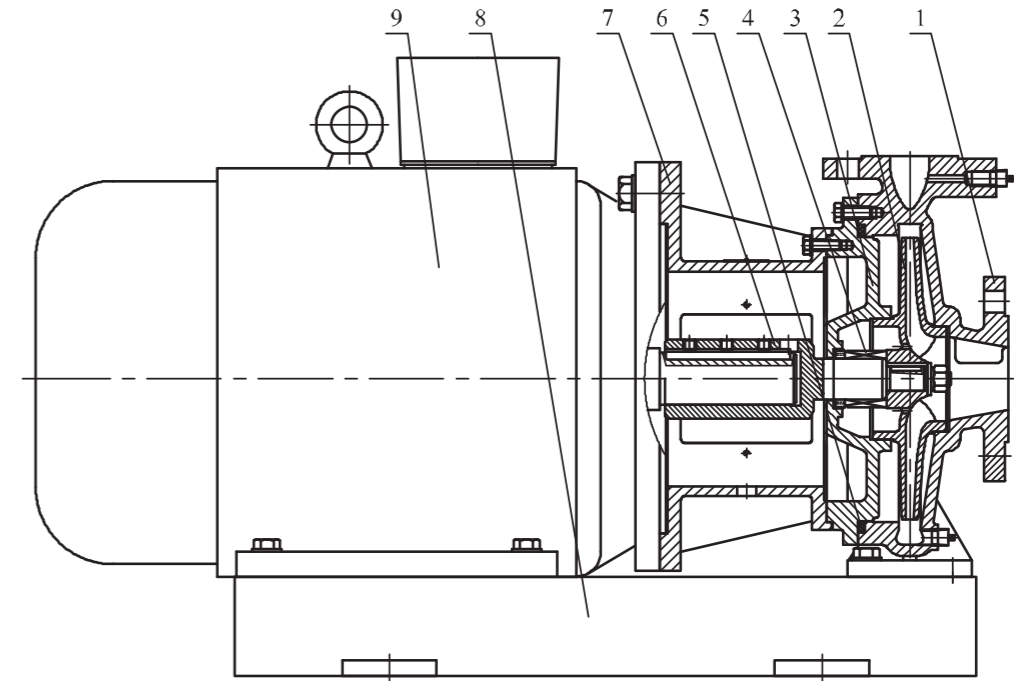
**NIS,NISF\*G,NIS/NISF\*(Q) Performance range**



NISO,NIS,NISF Performance range



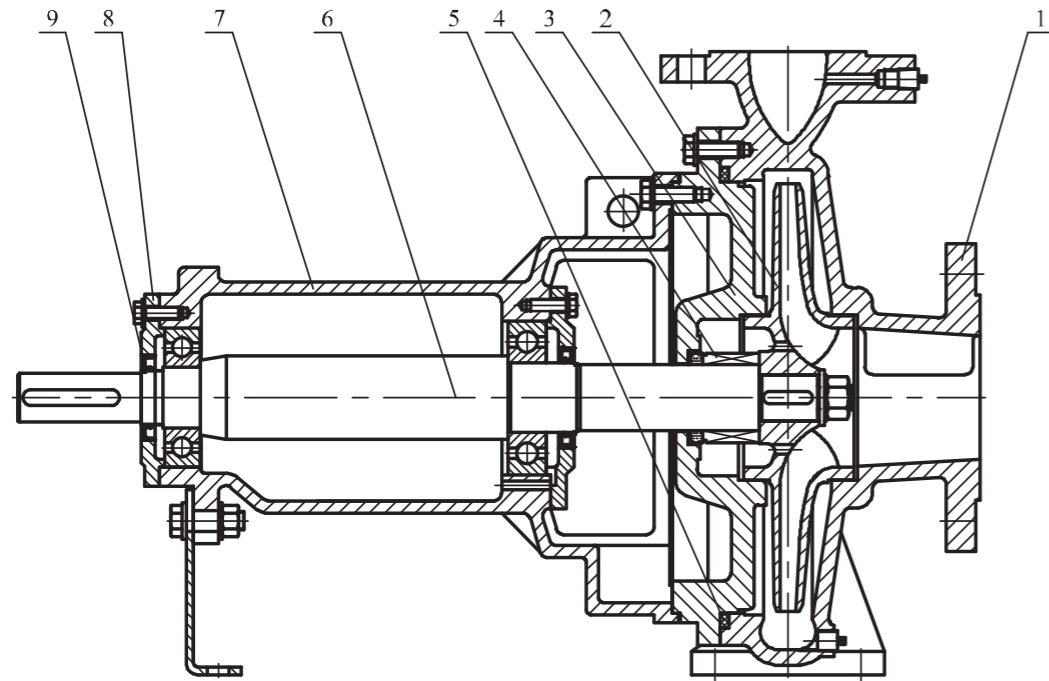
NIS,NISF Sectional drawing



NIS,NISF Parts list

SN	Name	Material	Grade/AISI/ASTM
1	Casing	Cast iron QT500-7/ZG07Cr19Ni9	ASTM80-55-06/AISI304
2	Impeller	Cast iron HT200/ZG07Cr19Ni9	ASTM25B/AISI304
3	Cover	Cast iron HT200/ZG07Cr19Ni9	ASTM25B/AISI304
4	Mechanical seal	Carbon/Sic	
5	O ring	NBR	
6	Shaft	Stainless steel 20Cr13/06Cr19Ni10	AISI420/AISI304
7	Pump head	Cast iron HT200	ASTM25B
8	Base	Q235-A	ASTM25B
9	Motor		

NISO Sectional drawing



NISO Parts list

SN	Name	Material	Grade/AISI/ASTM
1	Casing	Cast iron QT500-7/ZG07Cr19Ni9	ASTM80-55-06/AISI304
2	Impeller	Cast iron HT200/ZG07Cr19Ni9	ASTM25B/AISI304
3	Cover	Cast iron HT200/ZG07Cr19Ni9	ASTM25B/AISI304
4	Mechanical seal	Carbon/Sic	
5	O ring	NBR	
6	Shaft	Stainless steel 20Cr13/06Cr19Ni10	AISI420/AISI304
7	Bearing housing	Cast iron HT200	ASTM25B
8	Bearing cover	Cast iron HT200	ASTM25B
9	Oil seal	NBR	

NIS/NISF\*G,NIS/NISF\*(Q) Product range

2 Poles

SN	Model	Q [m³/h]	H [m]	Flow range [m³/h]	Total Weight(kg)	n [r/min]
1	100-65-200G/18.5	100	42	40~120	18.5	2950
2	100-65-200G/22		51		22	
3	100-65-200G/30		67		30	
4	100-65-200G/37		80		37	
5	100-65-250G/45		103		45	
6	100-65-250G/55		116		55	
7	100-65-315G/75		140		75	
8	100-65-315G/90		160		90	
9	100-80-160G/11		26		11	
10	100-80-160G/15		36		15	
11	100-80-160G/18.5		44		18.5	
12	125-100-200(Q)/30	160	43	60~200	30	
13	125-100-200(Q)/37		52		37	
14	125-100-200G/30	200	35	80~240	30	
15	125-100-200G/37		45		37	
16	125-100-200G/45		54		45	
17	125-100-200G/55		68		55	
18	125-100-200G/75		74		75	
19	125-100-250G/75		86		75	
20	125-100-250G/90		102		90	
21	125-100-315G/110		128		110	
22	125-100-315G/132		150		132	
23	125-100-315G/160		160		160	

NIS/NISF\*G,NIS/NISF\*(Q) Product range

NIS/NISF\*G,NIS/NISF\*(Q) Product range

4 Poles

4 Poles

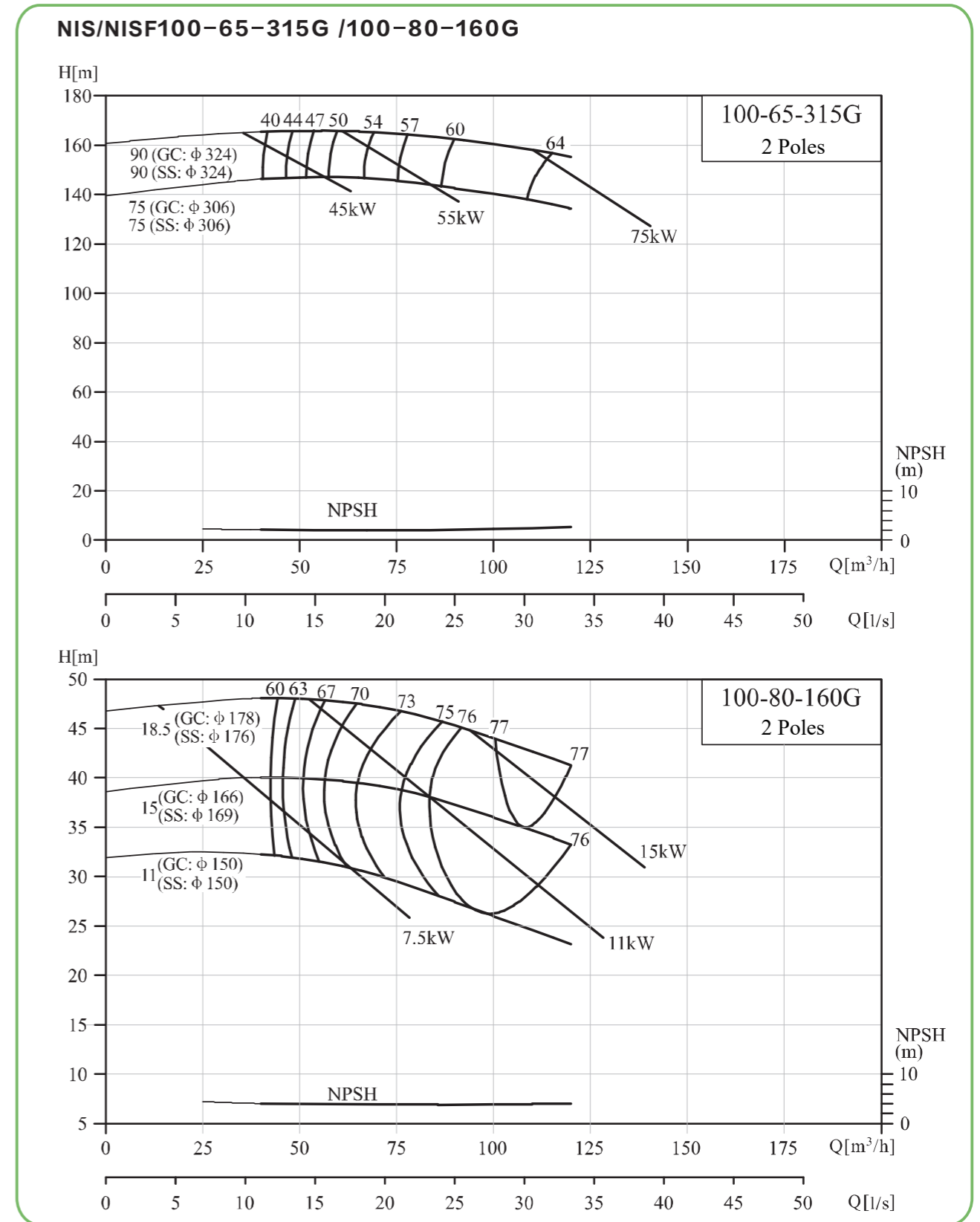
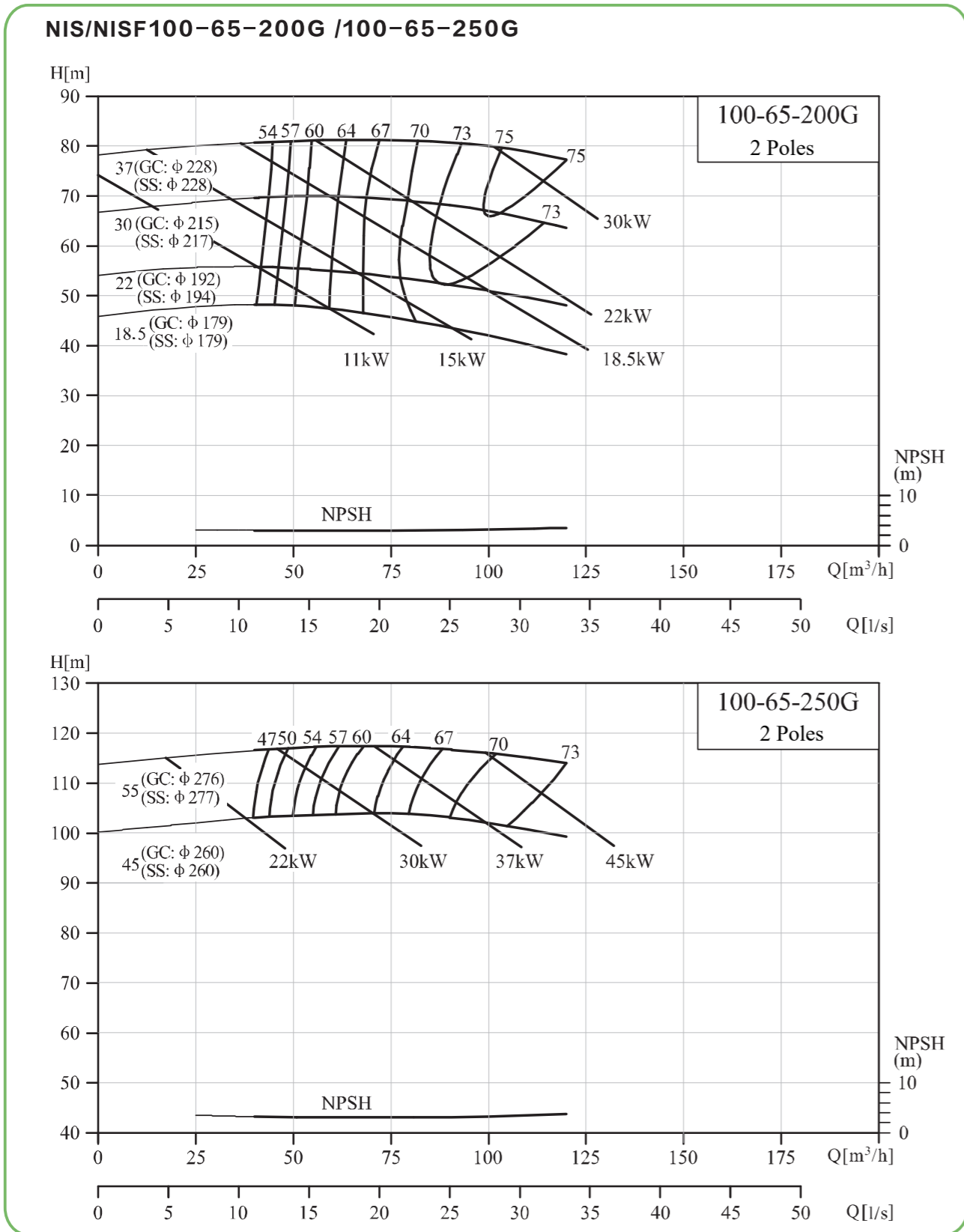
SN	Model	Q [m³/h]	H [m]	Flow range [m³/h]	Total Weight(kg)	n [r/min]	
1	100-65-200G/3	50	13	20~60	3	1450	
2	100-65-200G/4		17.5		4		
3	100-65-250G/5.5		24		5.5		
4	100-65-250G/7.5		28		7.5		
5	100-65-315G/11		40		11	1480	
6	100-65-315G/15		45		15		
7	100-80-160G/1.5		7		1.5	1450	
8	100-80-160G/2.2		10		2.2		
9	125-100-200G/4	100	9.5	40~120	4		1450
10	125-100-200G/5.5		13		5.5		
11	125-100-200G/7.5		18		7.5		
12	125-100-250G/11		25		11		1480
13	125-100-315G/15		33		15		
14	125-100-315G/18.5		40		18.5		
15	125-100-400G/30		55		30		
16	125-100-400G/37		68		37		
17	125-100-400G/45	72	45				
18	150-125-200(Q)/5.5	160	8.5	60~200	5.5	1450	
19	150-125-200(Q)/7.5		12		7.5		
20	150-125-200(Q)/11		16		11	1480	
21	150-125-200G/5.5	200	7	80~240	5.5	1450	
22	150-125-200G/7.5		10		7.5		
23	150-125-200G/11		14		11	1480	
24	150-125-250G/15		18		15		
25	150-125-250G/18.5		23		18.5		
26	150-125-250G/22		27		22		

SN	Model	Q [m³/h]	H [m]	Flow range [m³/h]	Total Weight(kg)	n [r/min]				
27	150-125-315(Q)/22	160	32	60~200	22	1480				
28	150-125-315(Q)/30		43		30					
29	150-125-315G/30	200	36	80~240	30		1480			
30	150-125-315G/37		42		37					
31	150-125-400(Q)/37	160	50	60~200	37			1480		
32	150-125-400G/45	200	54	80~240	45				1480	
33	150-125-400G/55		64		55					
34	150-125-400G/75		71		75					
35	200-150-250(Q)/11	300	9.5	120~360	11					1480
36	200-150-250(Q)/15		12.5		15					
37	200-150-250(Q)/18.5		16		18.5					
38	200-150-250(Q)/22		20		22					
39	200-150-250G/15	400	9	160~480	15	1480				
40	200-150-250G/18.5		12		18.5					
41	200-150-250G/22		15.5		22					
42	200-150-250G/30		20		30					
43	200-150-315G/37		24		37					
44	200-150-315G/45		29		45					
45	200-150-315G/55		36		55					
46	200-150-400G/75		47		75					
47	200-150-400G/90		56		90					
48	200-150-400G/110	63	110							



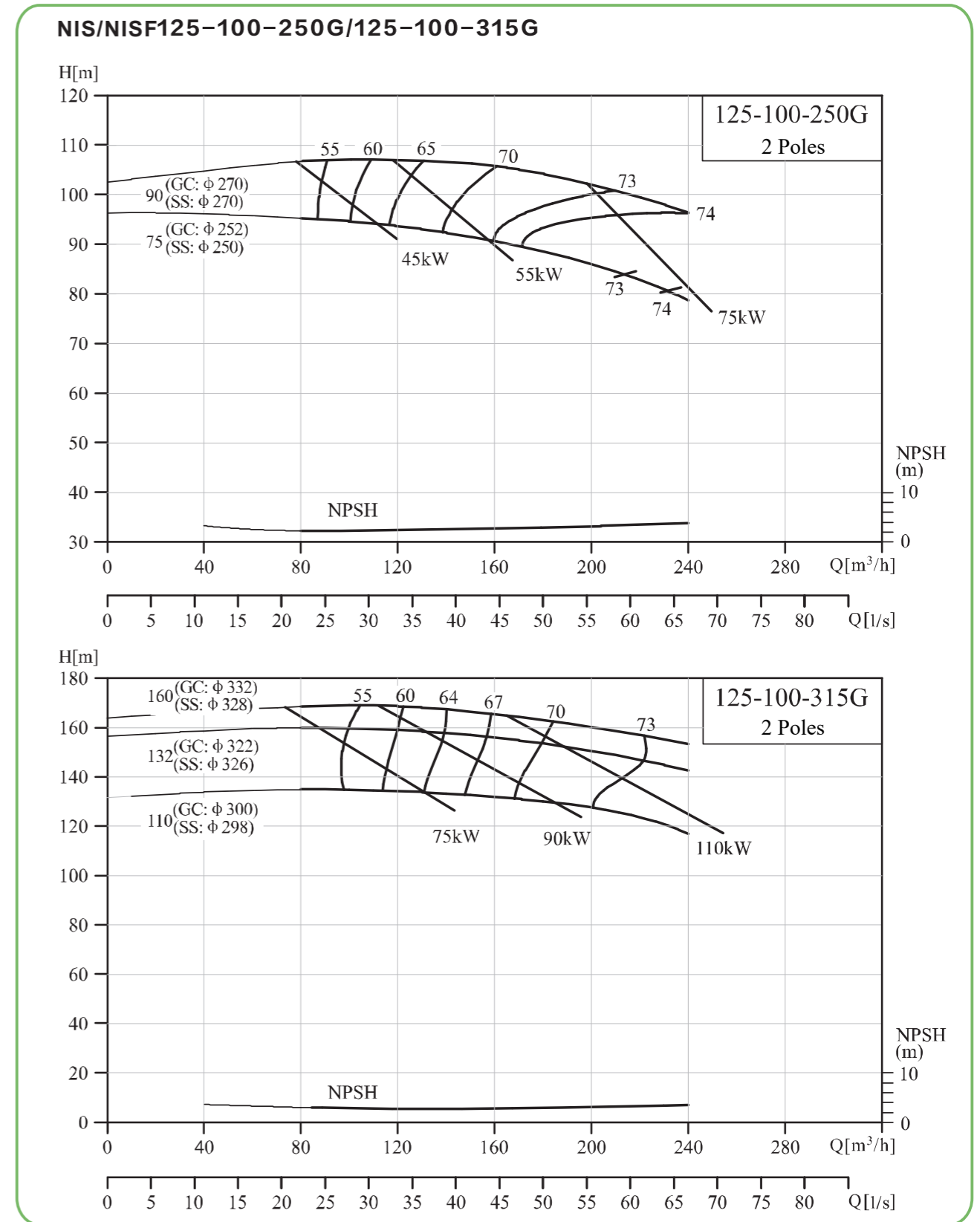
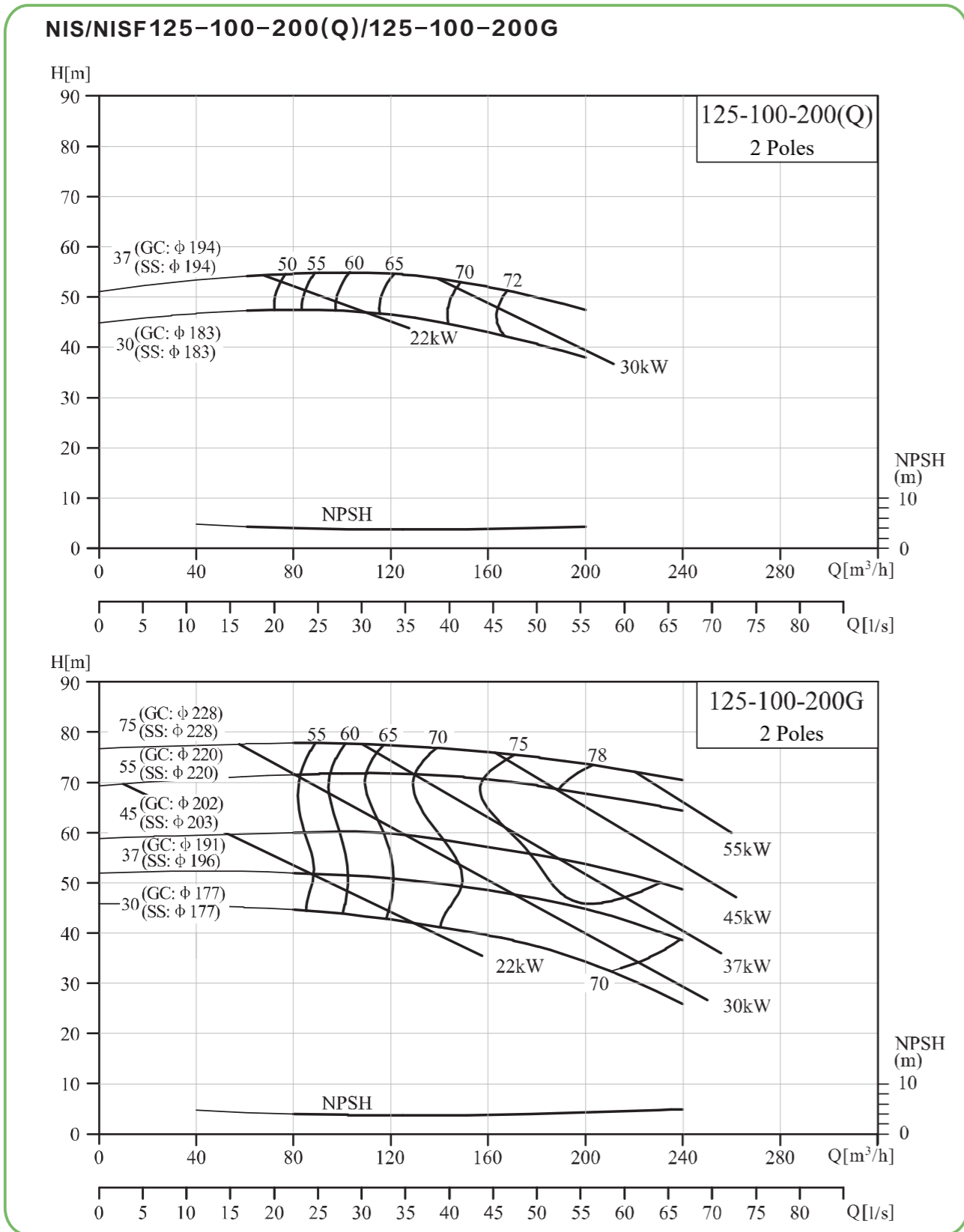
Performance curve

Performance curve



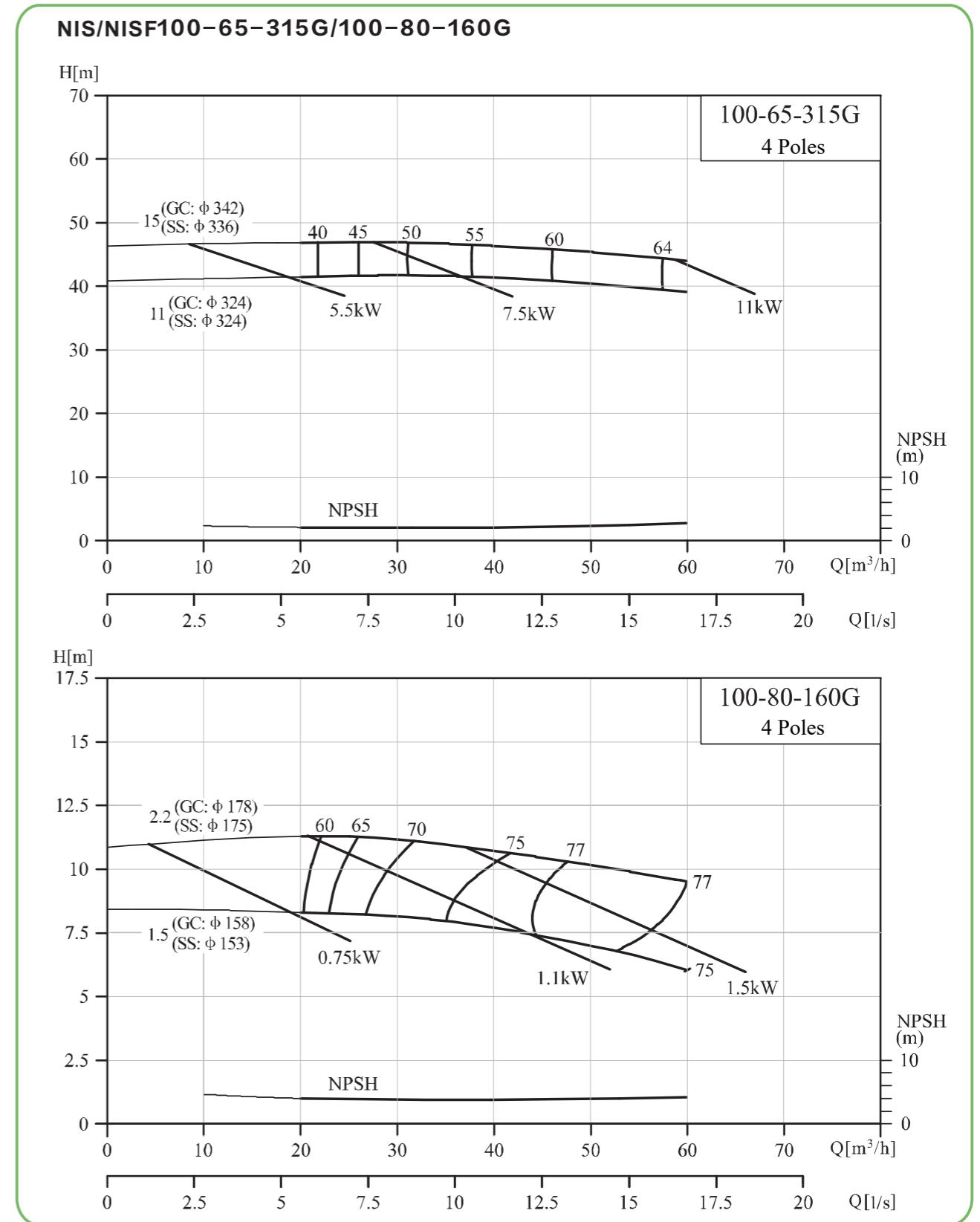
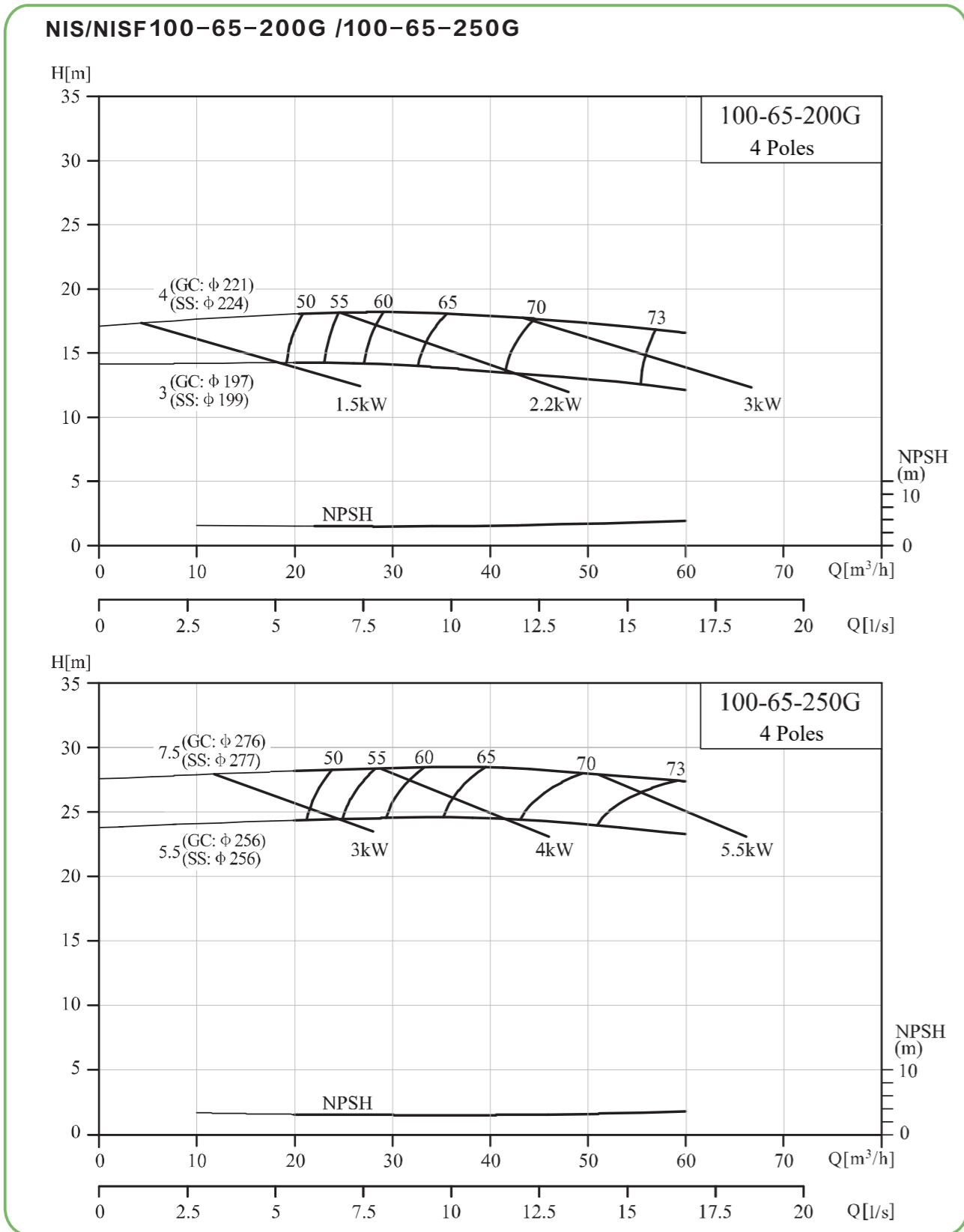
Performance curve

Performance curve



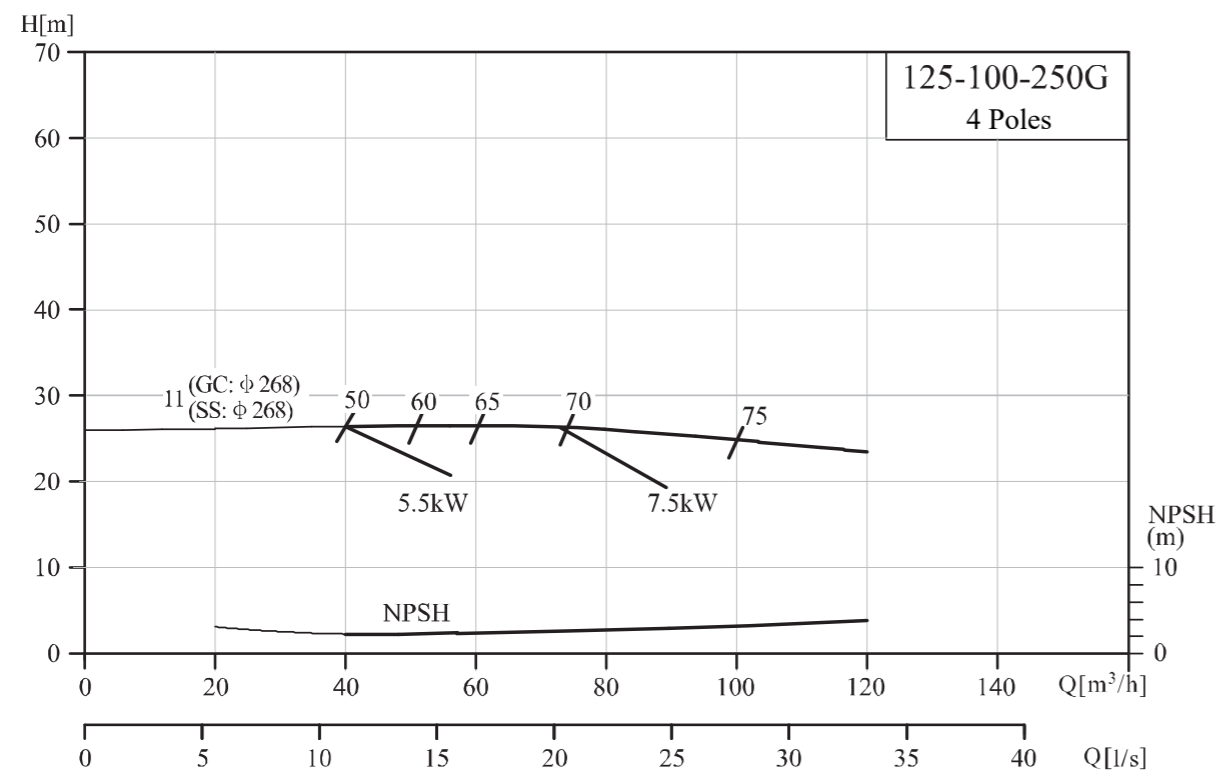
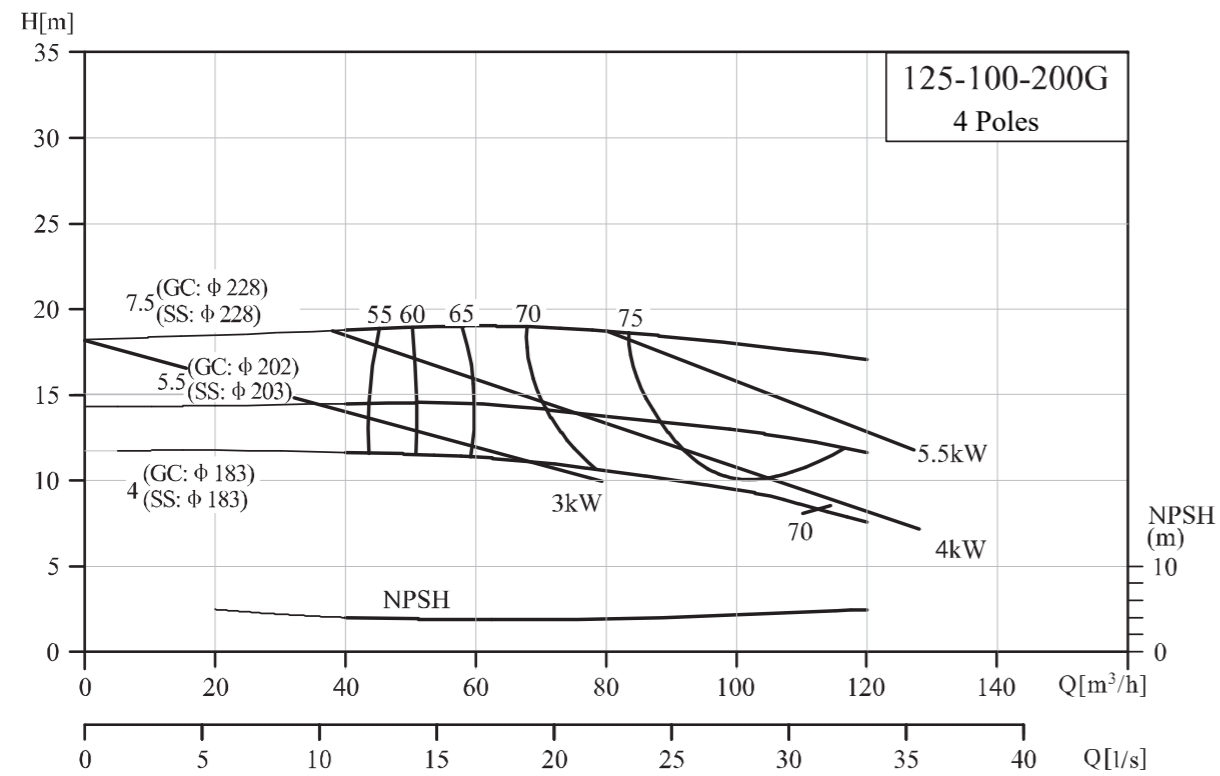
Performance curve

Performance curve



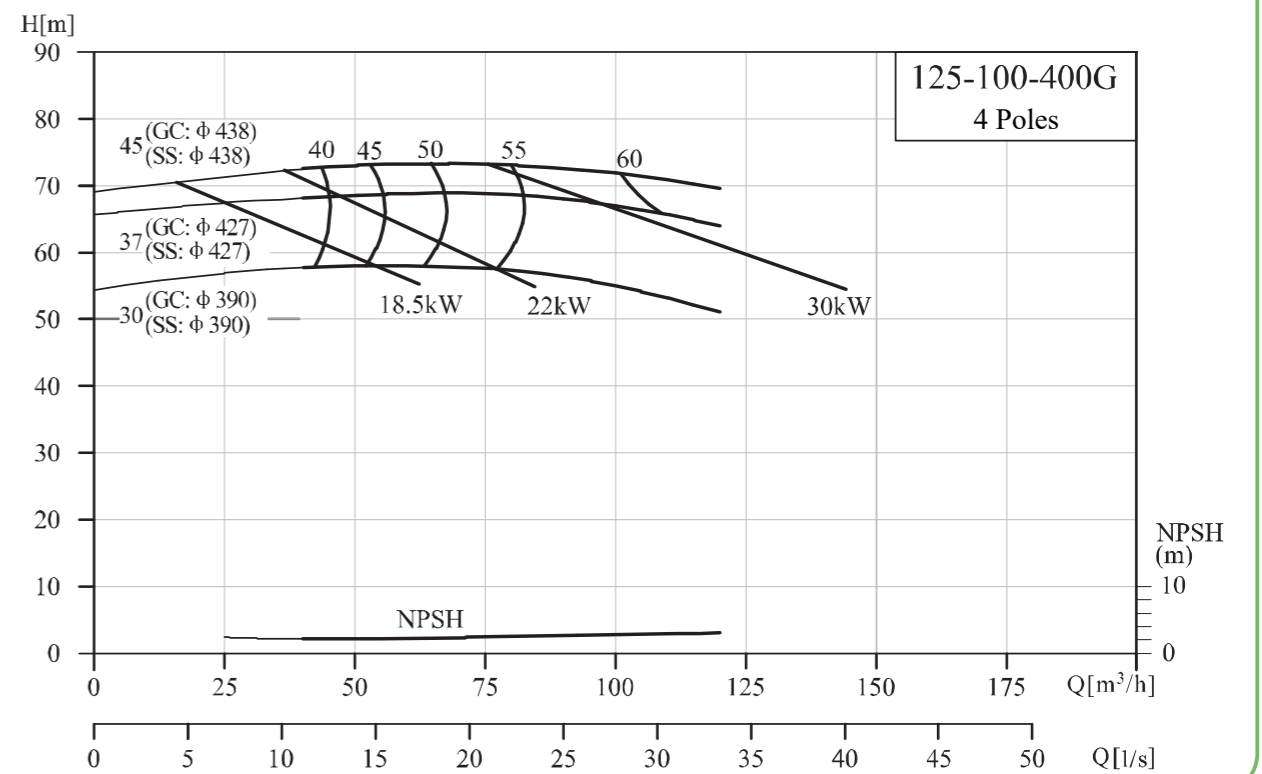
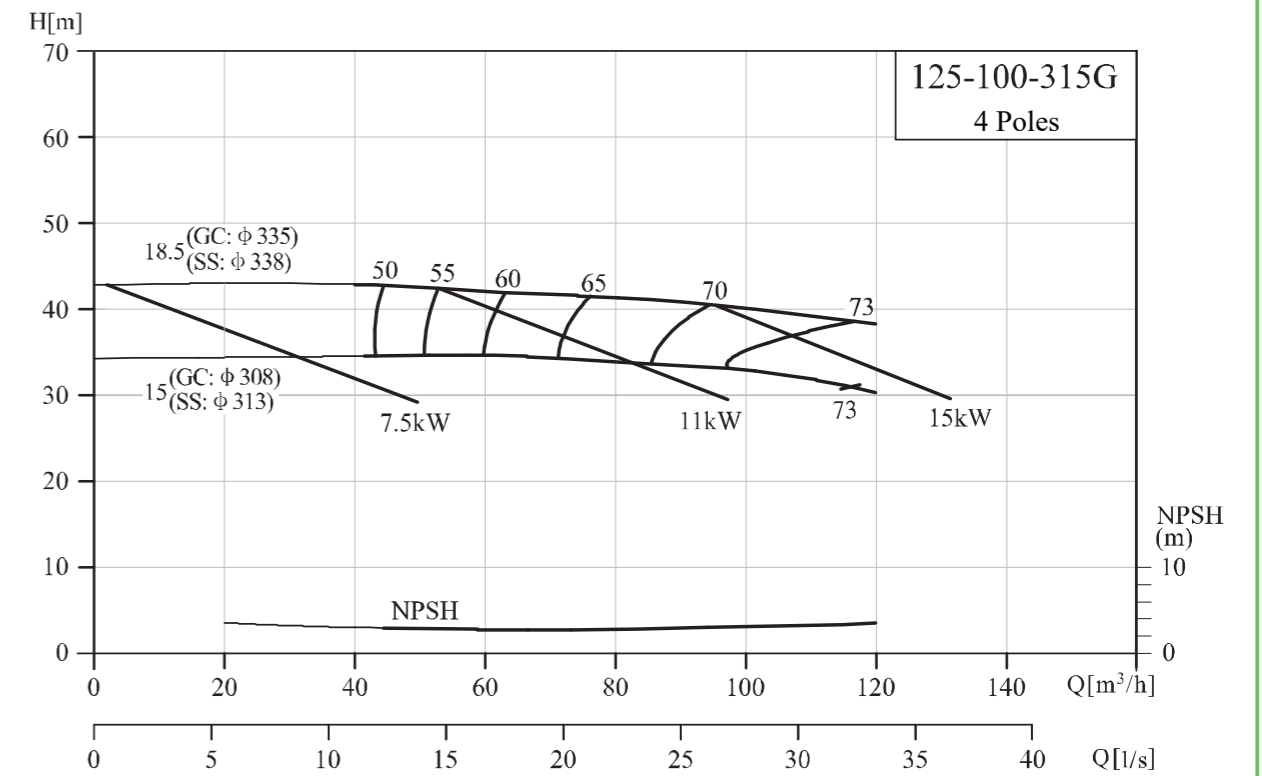
Performance curve

NIS/NISF125-100-200G/125-100-250G



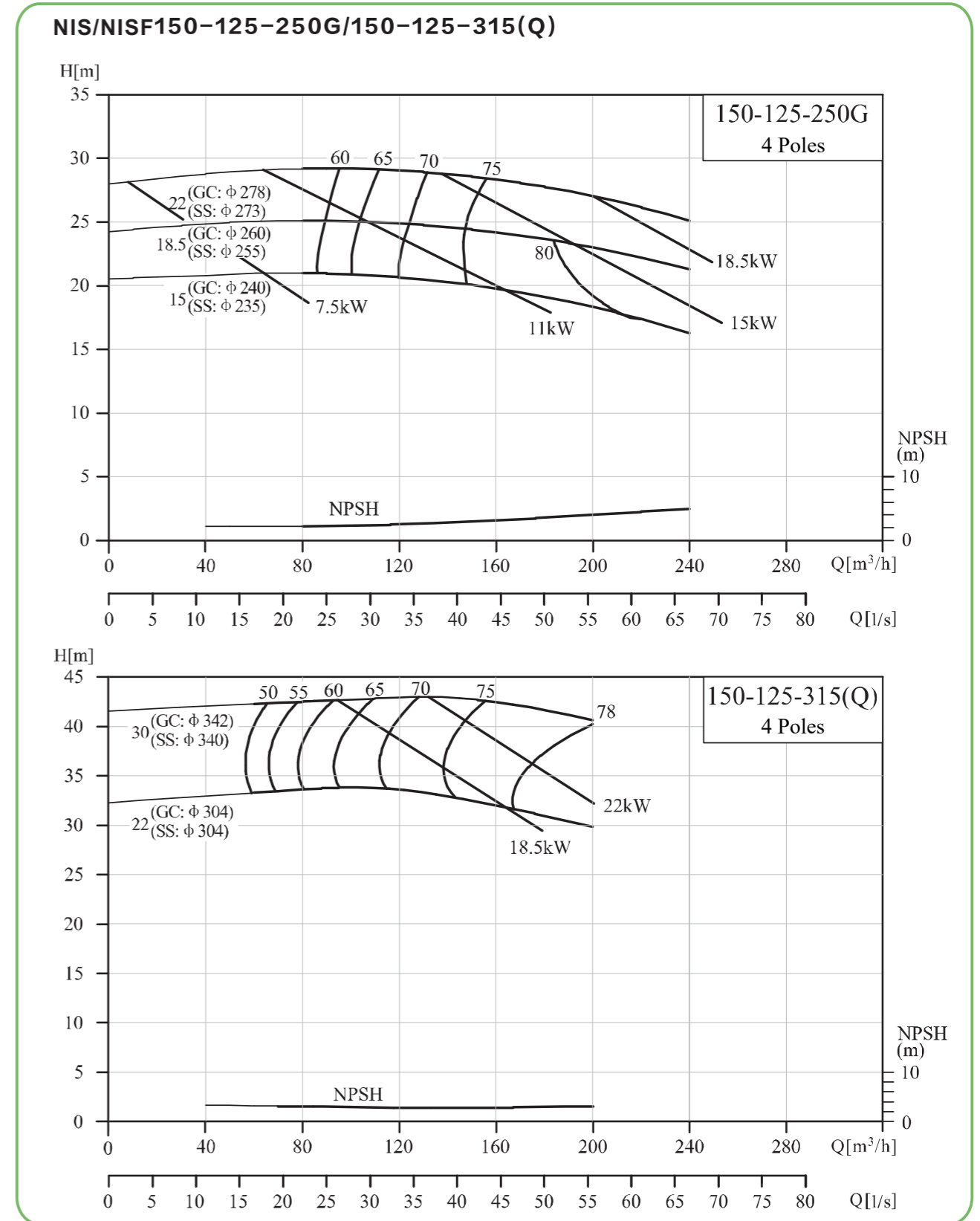
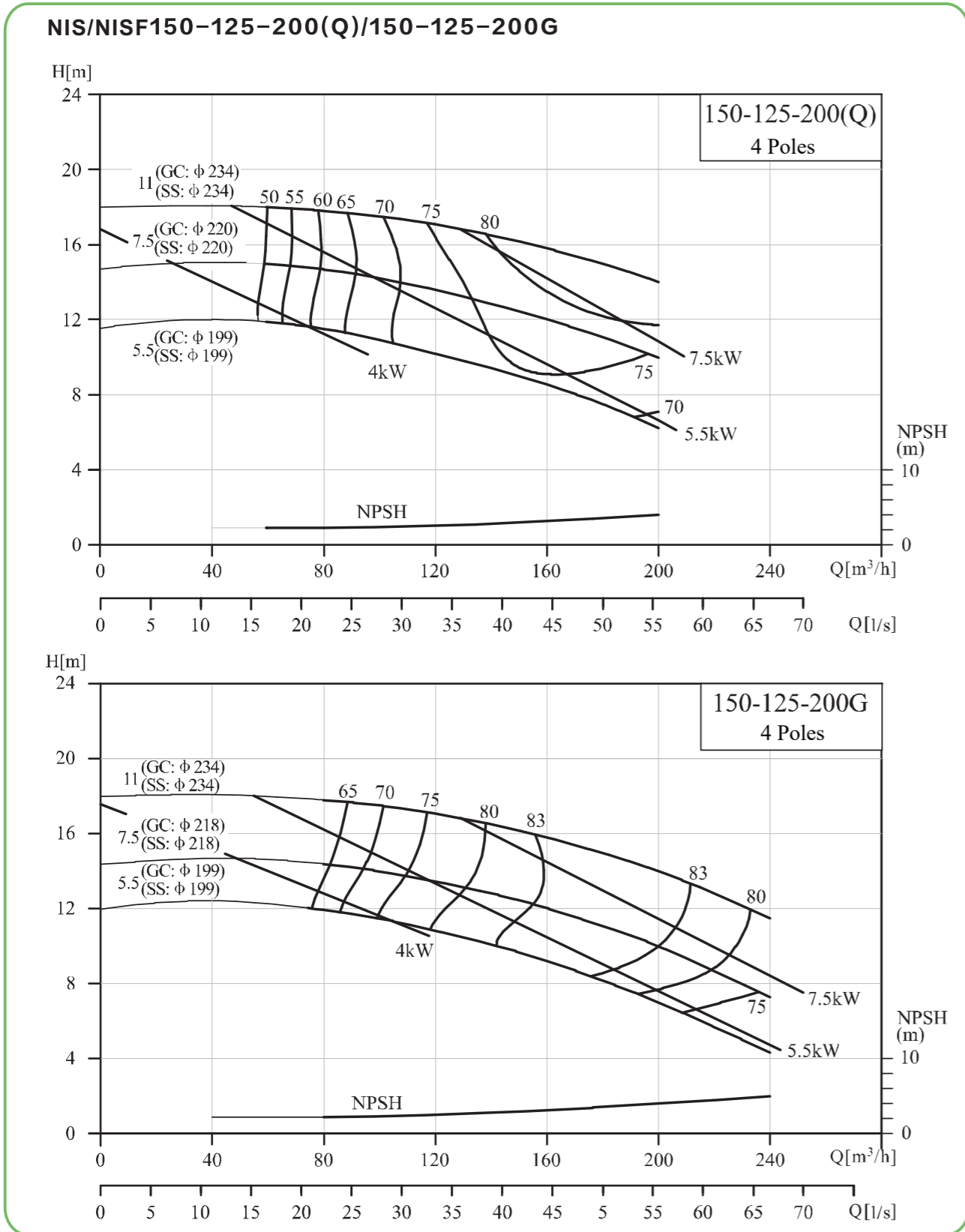
Performance curve

NIS/NISF125-100-315G/125-100-400G



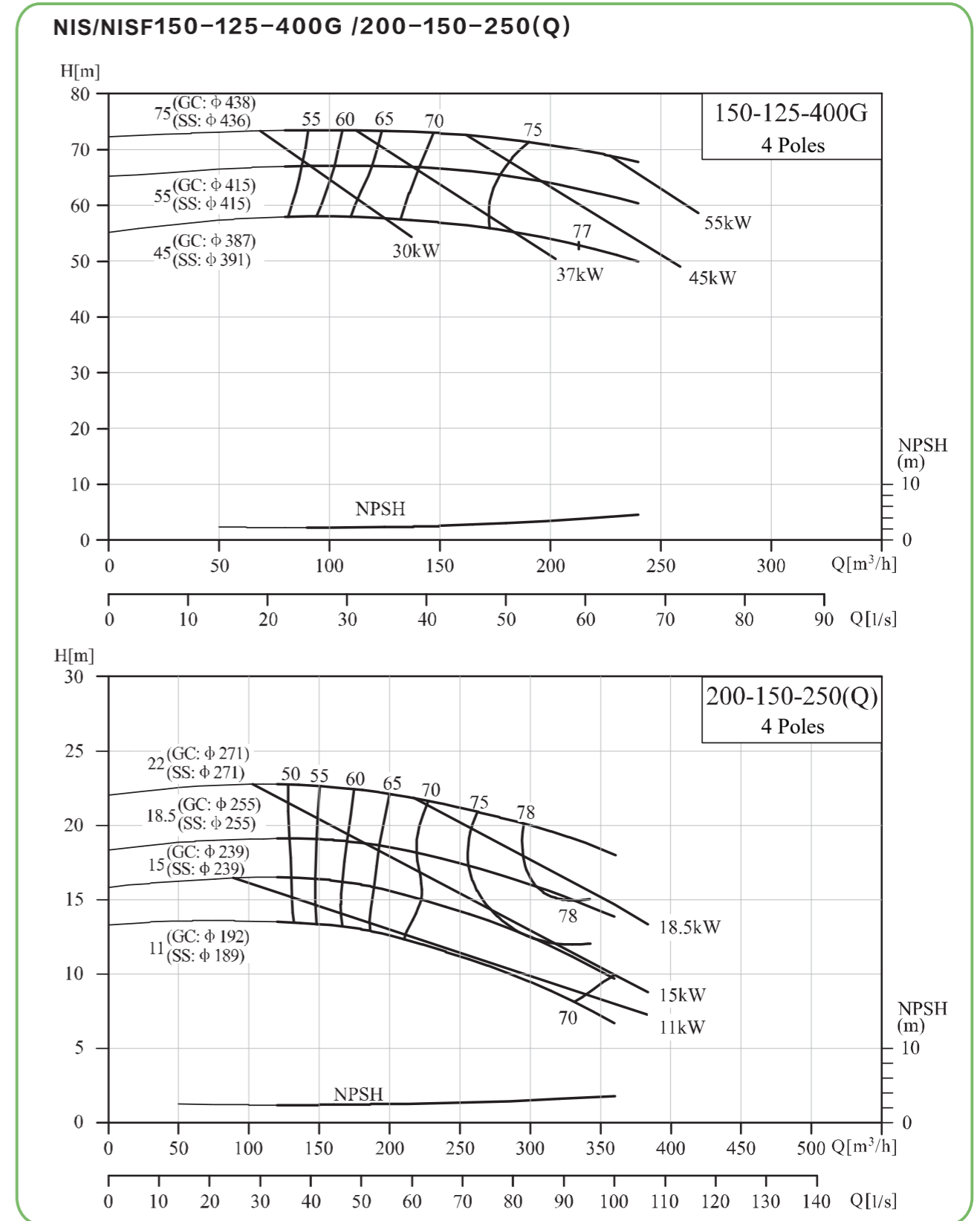
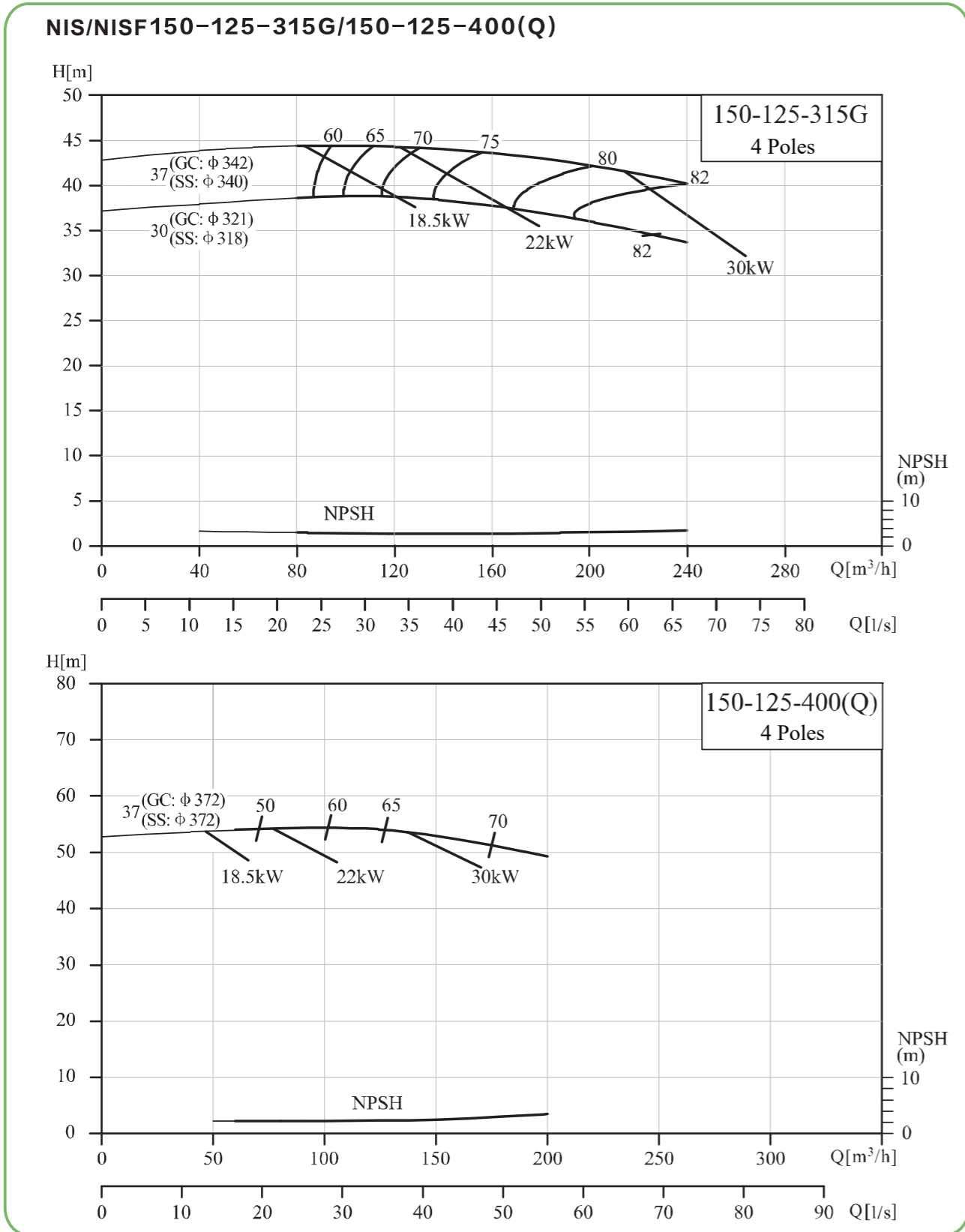
Performance curve

Performance curve



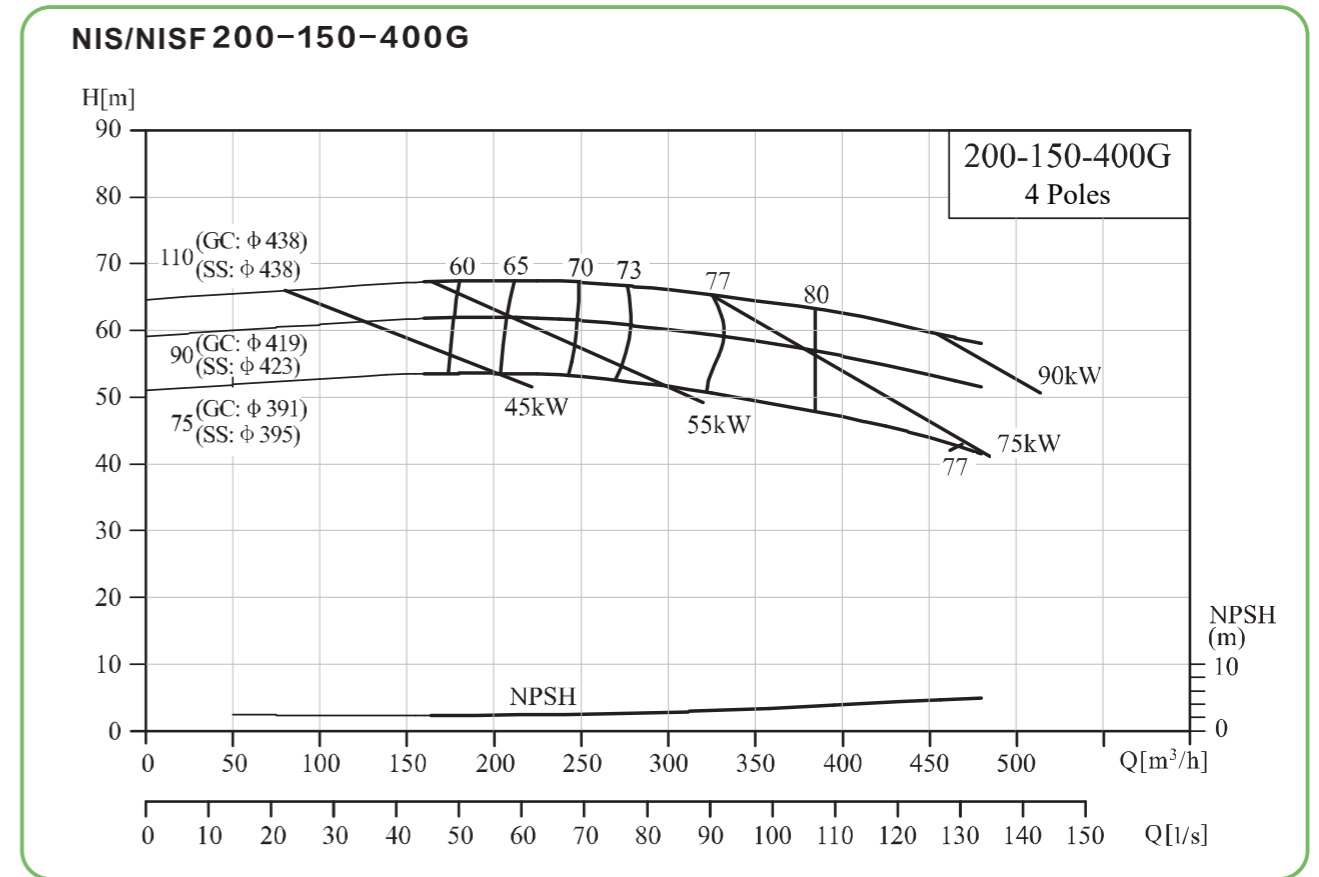
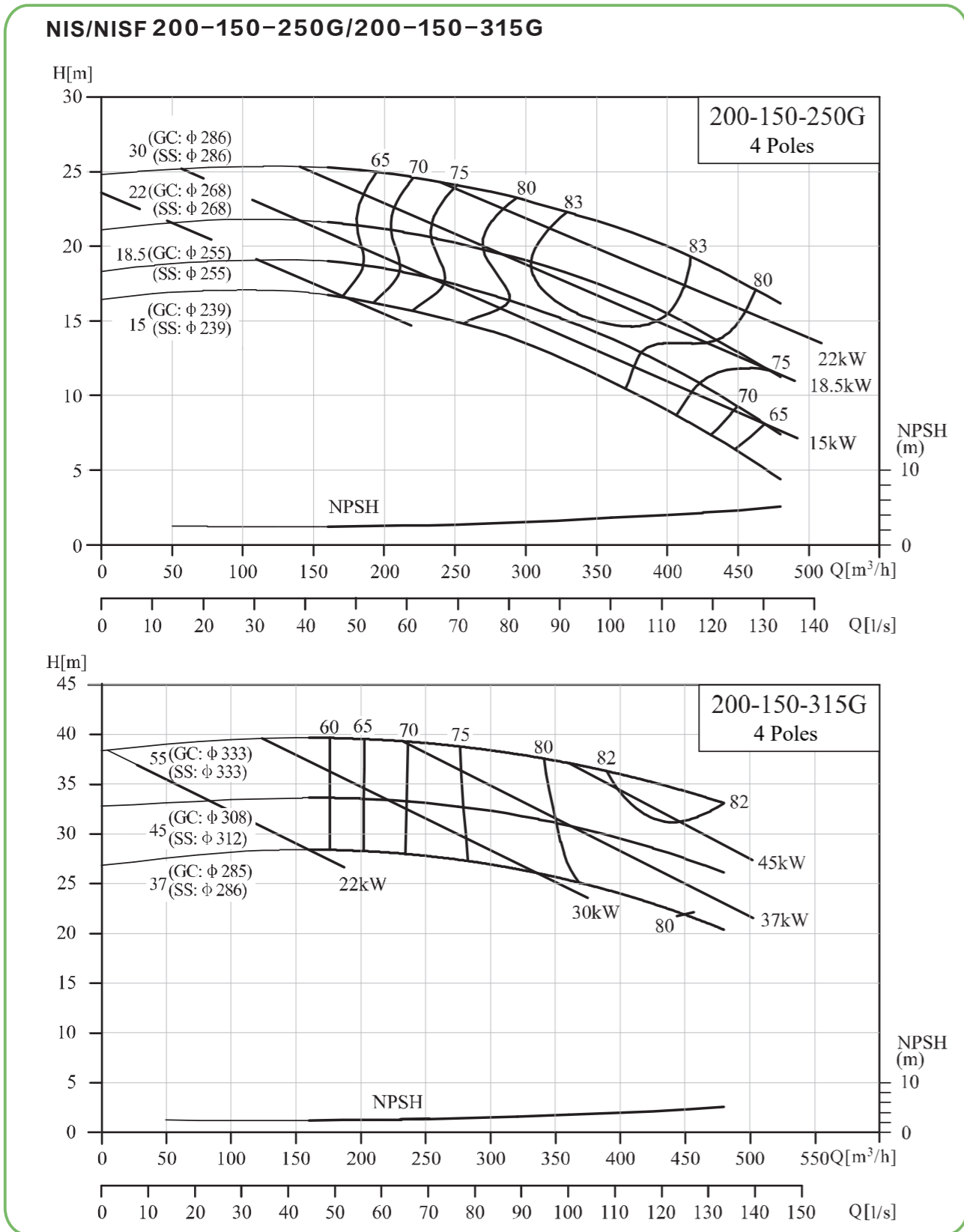
Performance curve

Performance curve

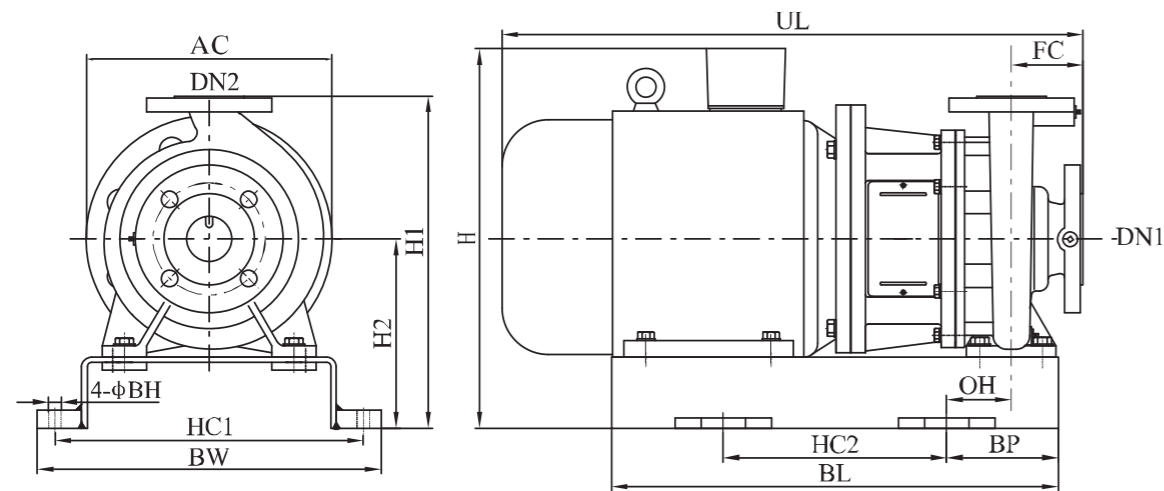


Performance curve

Performance curve



NIS/NISF\*G,NIS/NISF\*(Q) Dimension drawing



NIS/NISF\*G,NIS/NISF\*(Q) Dimension table

2 Poles

Model	Power (kW)	H	H1	H2	HC1	HC2	BW	BL	BP	BH	OH	UL	FC	DN1	DN2	Total Weight(kg)
100-65-200G	18.5	520	485	260	390	400	420	660	130	18	63.5	865	100	100	65	222
	22	535	485	260	430	400	460	700	150	18	81.5	895	100	100	65	257
	30	585	505	280	470	450	500	750	150	18	81.5	967	100	100	65	318
	37	585	505	280	470	450	500	750	150	18	81.5	967	100	100	65	337
100-65-250G	45	640	555	305	520	500	560	820	160	22	76.5	1042	125	100	65	426
	55	715	600	350	585	550	625	950	200	22	116.5	1156	125	100	65	529
100-65-315G	75	780	660	380	630	600	670	1000	200	22	114	1245	125	100	65	693
	90	780	660	380	630	600	670	1100	250	22	164	1295	125	100	65	730
100-80-160G	11	515	440	240	390	400	420	660	130	18	61.5	810	100	100	80	177
	15	515	440	240	390	400	420	660	130	18	61.5	810	100	100	80	187
	18.5	515	440	240	390	400	420	660	130	18	61.5	865	100	100	80	207
125-100-200(Q)	30	585	560	280	465	500	495	800	150	18	69	992	125	125	100	349
	37	585	560	280	465	500	495	800	150	18	69	992	125	125	100	368
125-100-200G	30	585	560	280	465	500	495	800	150	18	69	992	125	125	100	349
	37	585	560	280	465	500	495	800	150	18	69	992	125	125	100	368
	45	640	585	305	520	500	560	820	160	22	76.5	1042	125	125	100	431
	55	715	630	350	585	550	625	950	200	22	116.5	1156	125	125	100	534
	75	780	660	380	630	600	670	1000	200	22	114	1231	125	100	678	

NIS/NISF\*G,NIS/NISF\*(Q) Dimension table

4 Poles

Model	Power (kW)	H	H1	H2	HC1	HC2	BW	BL	BP	BH	OH	UL	FC	DN1	DN2	Total Weight(kg)
125-100-250G	75	780	660	380	630	600	670	1000	200	22	114	1265	140	125	100	701
	90	780	660	380	630	600	670	1100	250	22	164	1315	140	125	100	738
125-100-315G	110	945	730	415	720	600	760	1100	250	22	164	1545	140	125	100	1170
	132	945	730	415	720	700	760	1220	260	22	174	1655	140	125	100	1230
	160	945	730	415	720	700	760	1220	260	22	174	1655	140	125	100	1350

4 Poles

Model	Power (kW)	H	H1	H2	HC1	HC2	BW	BL	BP	BH	OH	UL	FC	DN1	DN2	Total Weight(kg)
100-65-200G	3	430	485	260	386	300	416	500	100	14	35	646	100	100	65	109
	4	448	485	260	386	300	416	500	100	14	35	641	100	100	65	114
100-65-250G	5.5	493	530	280	430	350	460	550	100	14	20	639	125	100	65	147
	7.5	493	530	280	430	350	460	550	100	18	20	717	125	100	65	166
100-65-315G	11	565	585	305	470	400	500	700	150	18	70	854	125	100	65	249
	15	565	585	305	470	400	500	700	150	18	70	909	125	100	65	270
100-80-160G	1.5	400	440	240	350	250	380	410	105	14	40	581	100	100	80	76
	2.2	410	440	240	350	300	380	500	100	14	35	646	100	100	80	87
125-100-200G	4	468	560	280	430	300	460	500	100	14	20	666	125	125	100	136
	5.5	493	560	280	430	350	460	550	100	18	20	639	125	125	100	152
125-100-250G	7.5	493	560	280	430	350	460	550	100	18	20	717	125	125	100	171
	11	565	585	305	470	400	500	700	150	18	70	924	140	125	100	258
125-100-315G	15	590	645	330	470	400	500	700	150	18	69	869	140	125	100	281
	18.5	605	645	330	470	450	500	750	150	18	69	954	140	125	100	317
125-100-400G	30	665	715	360	580	500	620	800	150	22	50	1028	140	125	100	444
	37	715	735	380	585	550	625	950	200	22	100	1071	140	125	100	523
	45	715	735	380	585	550	625	950	200	22	100	1101	140	125	100	552
150-125-200(Q)	5.5	543	630	330	470	350	500	570	100	18	20	673	140	150	125	168
	7.5	543	630	330	470	350	500	570	100	18	20	751	140	150	125	180
	11	590	630	330	470	400	500	700	150	18	69	869	140	150	125	235
150-125-200G	5.5	543	630	330	470	350	500	570	100	18	20	673	140	150	125	168
	7.5	543	630	330	470	350	500	570	100	18	20	751	140	150	125	180
	11	590	630	330	470	400	500	700	150	18	69	869	140	150	125	235
150-125-250G	15	590	685	330	470	400	500	700	150	18	69	924	140	150	125	284
	18.5	605	685	330	470	450	500	750	150	18	69	954	140	150	125	315
	22	605	685	330	470	450	500	750	150	18	69	994	140	150	125	333

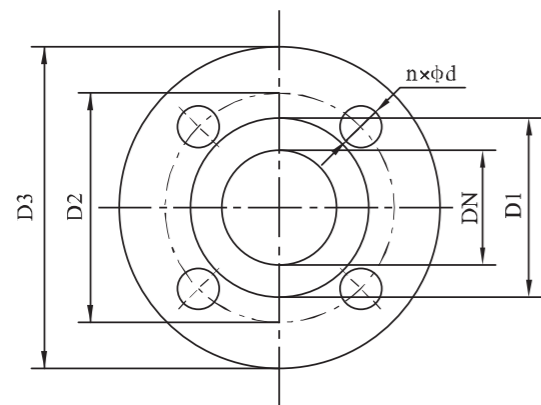


NIS/NISF\*G,NIS/NISF\*(Q) Dimension table

4 Poles

Model	Power (kW)	H	H1	H2	HC1	HC2	BW	BL	BP	BH	OH	UL	FC	DN1	DN2	Total Weight(kg)
150-125-315(Q)	22	635	715	360	580	500	620	800	150	22	50	994	140	150	125	400
	30	665	715	360	580	500	620	800	150	22	50	1028	140	150	125	430
150-125-315G	30	665	715	360	580	500	620	800	150	22	50	1028	140	150	125	430
	37	715	735	380	585	550	625	950	200	22	100	1071	140	150	125	507
150-125-400(Q)	37	750	815	415	585	550	625	950	200	22	100	1071	140	150	125	521
150-125-400G	45	750	815	415	585	550	625	950	200	22	100	1103	140	150	125	561
	55	780	815	415	585	550	625	950	200	22	100	1187	140	150	125	620
	75	815	815	415	630	600	670	1000	200	22	100	1262	140	150	125	776
200-150-250(Q)	11	620	735	360	580	500	620	800	150	22	50	901	160	200	150	273
	15	620	735	360	580	500	620	800	150	22	50	956	160	200	150	299
	18.5	635	735	360	580	500	620	800	150	22	50	988	160	200	150	337
	22	635	735	360	580	500	620	800	150	22	50	1026	160	200	150	360
200-150-250G	15	620	735	360	580	500	620	800	150	22	50	956	160	200	150	299
	18.5	635	735	360	580	500	620	800	150	22	50	988	160	200	150	337
	22	635	735	360	580	500	620	800	150	22	50	1026	160	200	150	360
	30	665	735	360	580	500	620	800	150	22	50	1048	160	200	150	426
200-150-315G	37	750	815	415	605	500	670	900	200	22	100	1116	160	200	150	541
	45	750	815	415	605	500	645	900	200	22	100	1146	160	200	150	579
	55	780	815	415	605	600	645	1000	200	22	100	1254	160	200	150	650
200-150-400G	75	815	865	415	630	600	675	1100	250	22	150	1329	160	200	150	859
	90	815	865	415	630	600	675	1100	250	22	150	1379	160	200	150	956
	110	945	865	415	720	700	760	1220	260	22	160	1614	160	200	150	1325

NIS/NISF\*G,NIS/NISF\*(Q) Flange



DN	D1	D2	D3	n	d
65	122	145	185	4	18
80	133	160	200	8	18
100	158	180	220	8	18
125	184	210	250	8	18
150	212	240	285	8	22
200	268	295	340	12	22

NISO,NIS,NISF Product range

2 Poles

SN	Model	Q [m³/h]	H [m]	Power [kW]	n [r/min]
1	50-32-160/3	12.5	28	3	2900
2	50-32-160/4		36	4	
3	50-32-160/5.5		44	5.5	
4	50-32-200/7.5		55	7.5	
5	50-32-200/11		74	11	
6	65-40-200/7.5	25	48	7.5	2900
7	65-40-200/11		62	11	2950
8	65-40-200/15		72	15	
9	65-40-250/18.5		84	18.5	
10	65-40-250/22		95	22	
11	65-40-250/30		105	30	
12	65-40-315/22		105	22	
13	65-40-315/30		120	30	
14	65-40-315/37		145	37	
15	65-40-315/45		165	45	
16	65-50-160/4	50	28	4	
17	65-50-160/5.5		36	5.5	
18	65-50-160/7.5		42	7.5	2950
19	80-50-200/11		44	11	
20	80-50-200/15		57	15	
21	80-50-200/18.5		64	18.5	
22	80-50-200/22		71	22	
23	80-50-250/30		84	30	
24	80-50-250/37	100	37		
25	80-50-315/37	105	37		
26	80-50-315/45	125	45		
27	80-50-315/55	140	55		
28	80-50-315/75	152	75		

NISO,NIS,NISF Product range

SN	Model	Q [m³/h]	H [m]	Power [kW]	n [r/min]
29	80-65-160/5.5	50	22	5.5	2900
30	80-65-160/7.5		29	7.5	
31	80-65-160/11		38	11	
32	80-65-160/15		44	15	
33	100-65-200/18.5	100	36	18.5	2950
34	100-65-200/22		43	22	
35	100-65-200/30		56	30	
36	100-65-200/37		67	37	
37	100-65-250/45		80	45	
38	100-65-250/55		88	55	
39	100-65-250/75		108	75	
40	100-65-315/90		128	90	
41	100-65-315/110		148	110	
42	100-80-160/11		200	23	
43	100-80-160/15	30		15	
44	100-80-160/18.5	35		18.5	
45	100-80-160/22	40		22	
46	125-100-200/30	34		30	
47	125-100-200/37	41		37	
48	125-100-200/45	48		45	
49	125-100-200/55	55		55	
50	125-100-200/75	66		75	
51	125-100-250/75	75		75	
52	125-100-250/90	86	90		
53	125-100-250/110	100	110		
54	125-100-315/90	93	90		
55	125-100-315/110	108	110		
56	125-100-315/132	124	132		
57	125-100-315/160	144	160		

NISO,NIS,NISF Product range

4 Poles

SN	Model	Q [m³/h]	H [m]	Power [kW]	n [r/min]
1	50-32-160/0.55	6.3	8.5	0.55	1450
2	50-32-160/0.75		11	0.75	
3	50-32-200/1.1		14	1.1	
4	50-32-200/1.5		18	1.5	
5	65-40-200/1.1	12.5	12	1.1	1450
6	65-40-200/1.5		15	1.5	
7	65-40-200/2.2		17.5	2.2	
8	65-40-250/3		25	3	
9	65-40-315/4		34	4	
10	65-40-315/5.5		40	5.5	
11	65-50-160/0.55		7	0.55	
12	65-50-160/0.75		9	0.75	
13	65-50-160/1.1		10.5	1.1	
14	80-50-200/1.5		25	11	
15	80-50-200/2.2	15		2.2	
16	80-50-200/3	17.5		3	
17	80-50-250/4	21		4	
18	80-50-250/5.5	25		5.5	
19	80-50-315/5.5	30		5.5	
20	80-50-315/7.5	37		7.5	
21	80-65-160/0.75	6		0.75	
22	80-65-160/1.1	8		1.1	
23	80-65-160/1.5	10.5		1.5	
24	100-65-200/3	50	11.5	3	1480
25	100-65-200/4		14	4	
26	100-65-200/5.5		16	5.5	
27	100-65-250/5.5		20	5.5	
28	100-65-250/7.5		25	7.5	
29	100-65-315/11		32	11	

NISO,NIS,NISF Product range

NISO,NIS,NISF Product range

4 Poles

4 Poles

SN	Model	Q [m³/h]	H [m]	Power [kW]	n [r/min]
30	100-65-315/15	50	40	15	1480
31	100-80-160/1.5		6.5	1.5	1450
32	100-80-160/2.2		9	2.2	
33	100-80-160/3		10.5	3	
34	125-80-400/15		39	15	1480
35	125-80-400/18.5		45	18.5	
36	125-80-400/22		50	22	
37	125-80-400/30		60	30	
38	125-80-400/37		67	37	
39	125-100-200/4		100	9	4
40	125-100-200/5.5	11.5		5.5	
41	125-100-200/7.5	14		7.5	
42	125-100-200/11	16.5		11	1480
43	125-100-250/15	25		15	
44	125-100-315/11	23		11	
45	125-100-315/18.5	32		18.5	
46	125-100-315/22	36		22	
47	125-100-315/30	40		30	
48	125-100-400/30	50		30	
49	125-100-400/37	58	37		
50	125-100-400/45	65	45		
51	150-125-250/11	200	12.5	11	1480
52	150-125-250/15		16	15	
53	150-125-250/18.5		20	18.5	
54	150-125-250/22		24	22	
55	150-125-315/30		32	30	
56	150-125-315/37		39	37	
57	150-125-400/45		50	45	
58	150-125-400/55		57	55	

SN	Model	Q [m³/h]	H [m]	Power [kW]	n [r/min]
59	150-125-400/75	200	68	75	1480
60	200-150-315/37	400	23	37	
61	200-150-315/45		27	45	
62	200-150-315/55		32	55	
63	200-150-315/75		38	75	
64	200-150-400/75		43	75	
65	200-150-400/90		50	90	
66	200-150-400/110	62	110		
67	250-200-250/22*	500	12.5	22	
68	250-200-250/30*		16.5	30	
69	250-200-315/37		20	37	
70	250-200-315/45	23	45		
71	250-200-250/37*	630	17	37	
72	250-200-250/45*		20.5	45	
73	250-200-315/55		24	55	
74	250-200-315/75		32	75	
75	250-200-400/90		37	90	
76	250-200-400/110		44	110	
77	250-200-400/132		53	132	
78	250-200-400/160		60	160	
79	300-250-250(Q)/37*	800	11.5	37	
80	300-250-250(Q)/45*		15	45	
81	300-250-250(Q)/55*		18.5	55	
82	300-250-315(Q)/75		26	75	
83	300-250-315(Q)/90		32	90	
84	300-250-315(Q)/110		35	110	
85	300-250-400(Q)/110		38	110	
86	300-250-400(Q)/132		45	132	
87	300-250-400(Q)/160		53	160	

NISO,NIS,NISF Product range

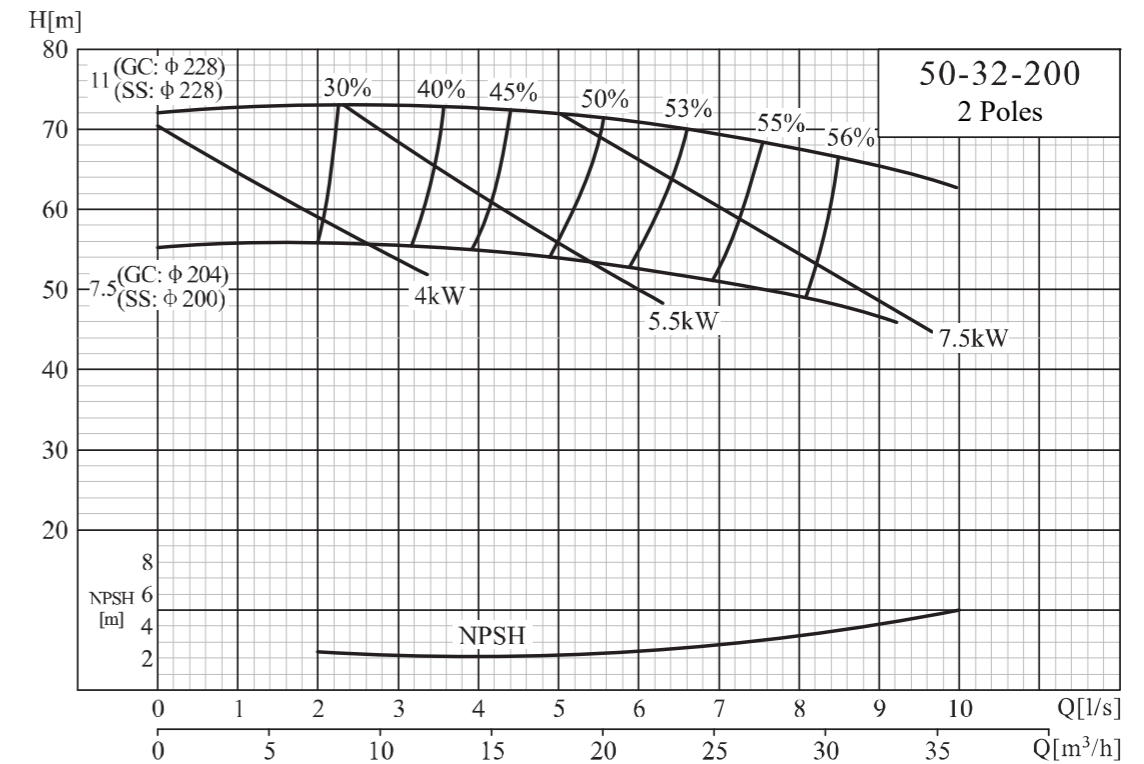
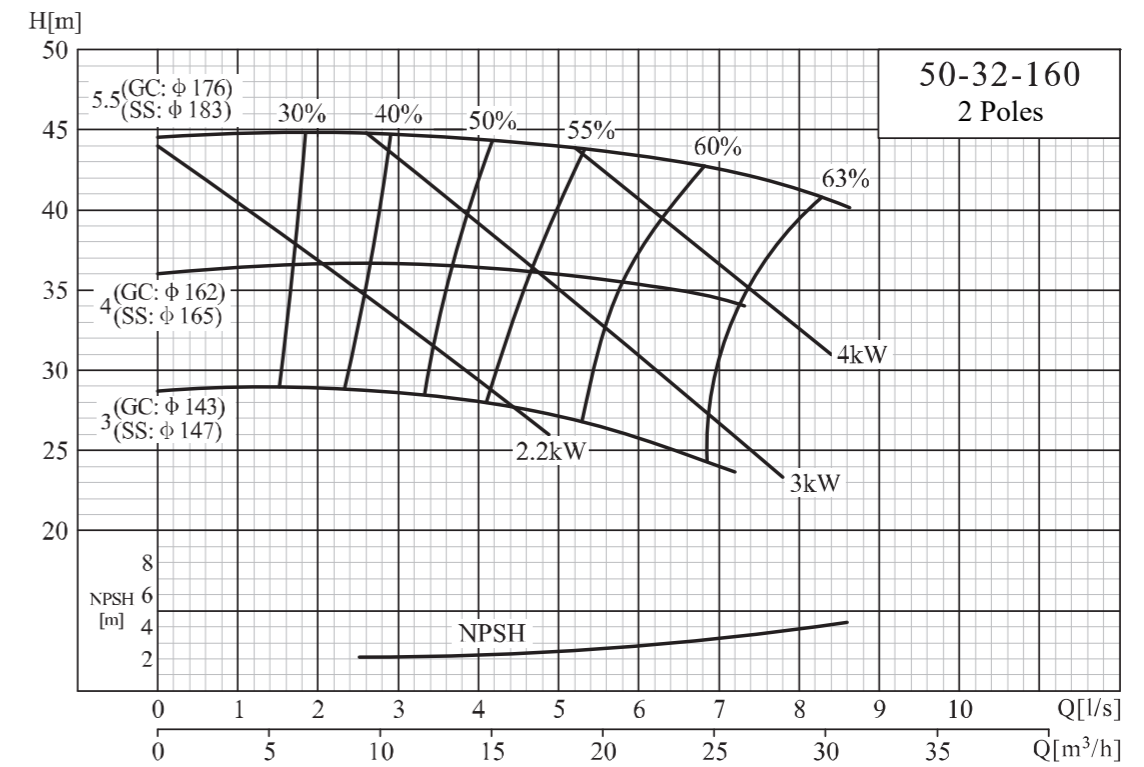
4 Poles

SN	Model	Q [m³/h]	H [m]	Power [kW]	n [r/min]
88	300-250-400(Q)/200	800	63	200	1480
89	300-250-250/45*	1000	11	45	
90	300-250-250/55*		14	55	
91	300-250-250/75*		20.5	75	
92	300-250-315/75		20	75	
93	300-250-315/90		25	90	
94	300-250-315/110		31	110	
95	300-250-400/132		37	132	
96	300-250-400/160		45	160	
97	300-250-400/200		50	200	
98	350-300-250/75*		1200	17	
99	350-300-250/90*	21.5		90	
100	350-300-250/110*	26		110	
101	350-300-250/132*	31		132	
102	350-300-315/132*	32.5		132	
103	350-300-315/160*	38.5		160	
104	350-300-315/185*	44.5		185	
105	350-300-315/200*	46	200		

Remark: Model with \* is only for NIS series.

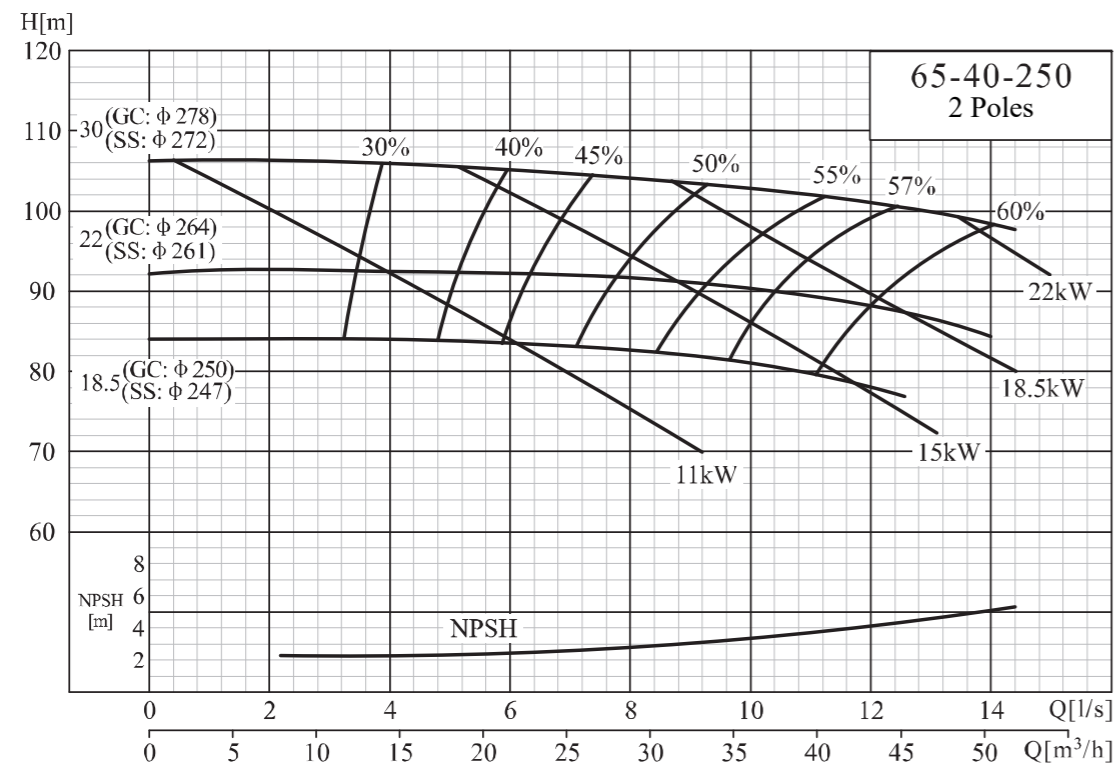
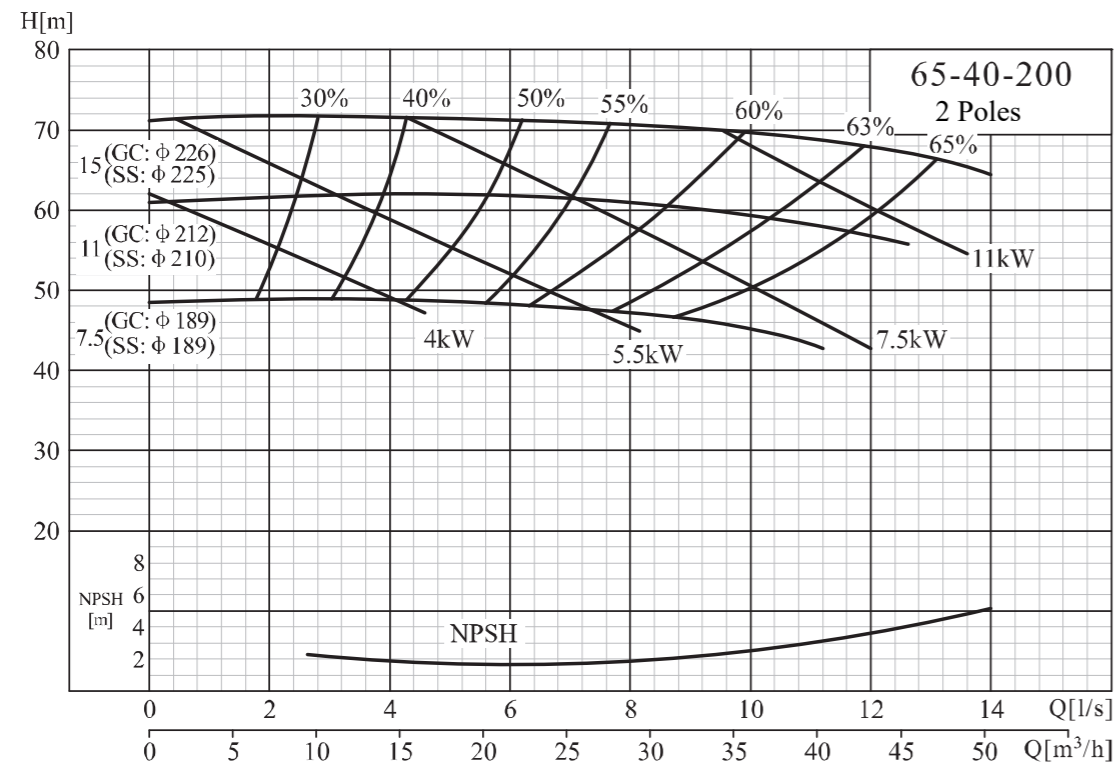
Performance curve

NISO,NIS,NISF50-32-160/50-32-200



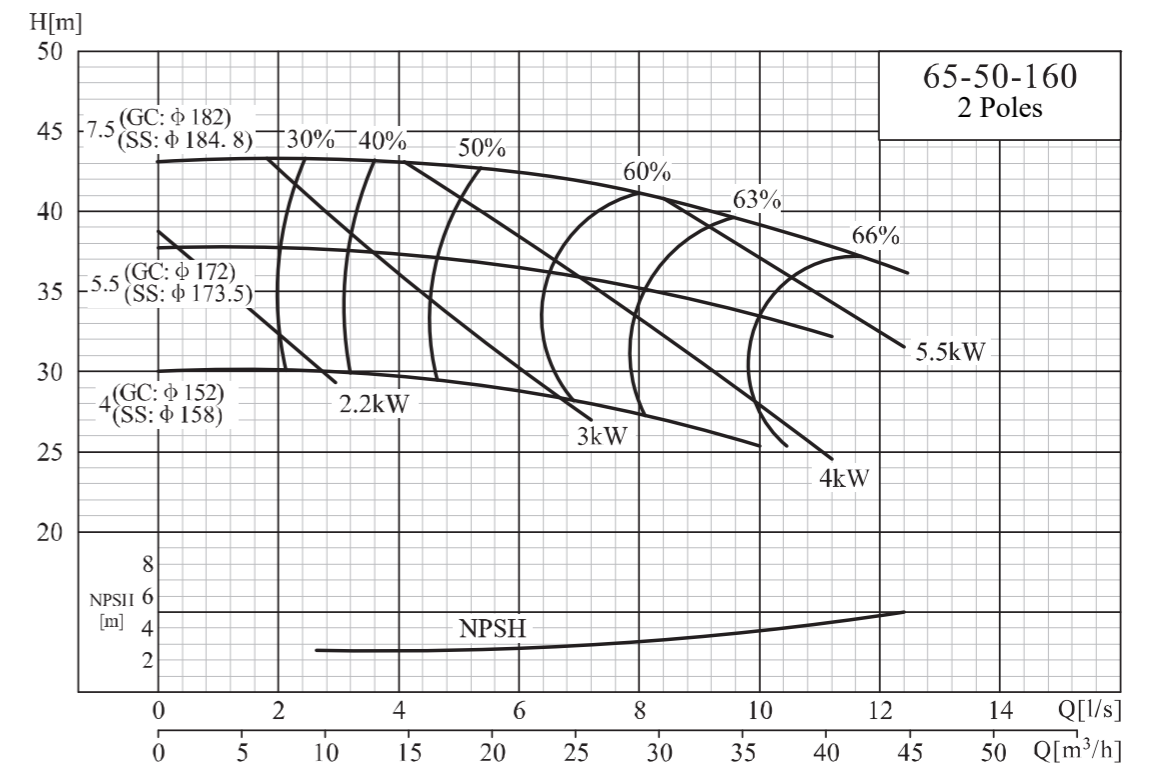
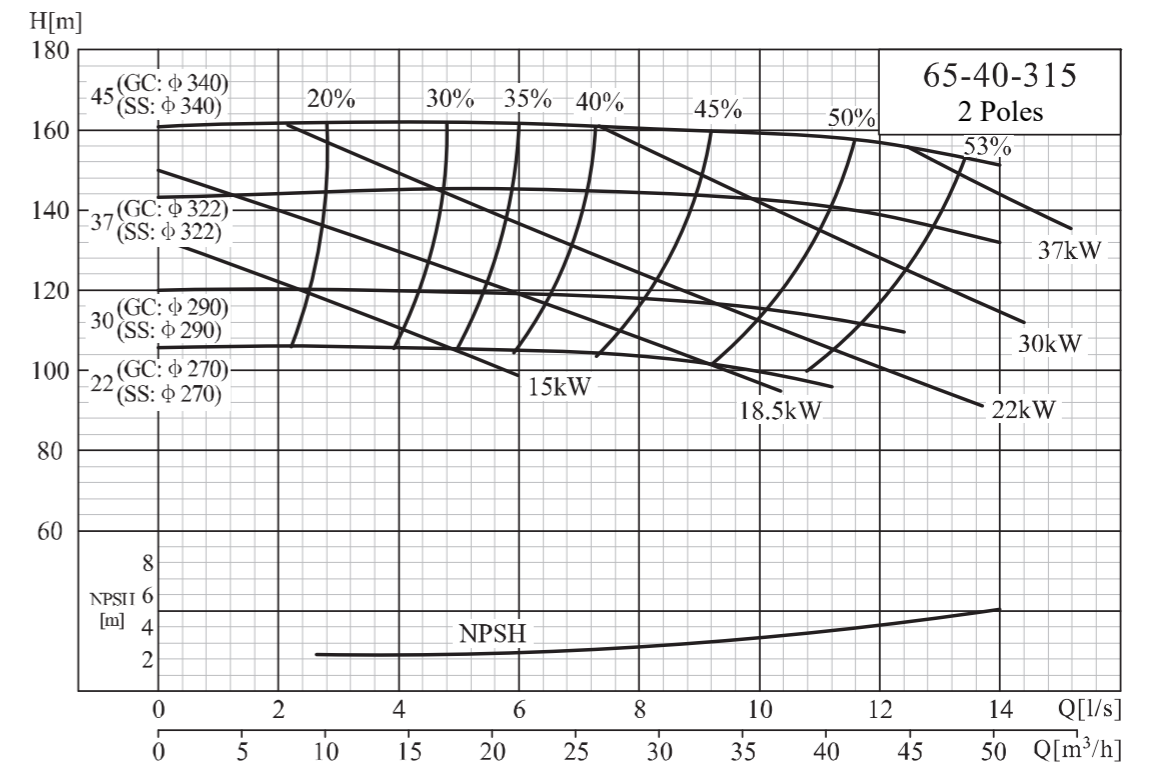
Performance curve

NISO,NIS,NISF65-40-200/65-40-250



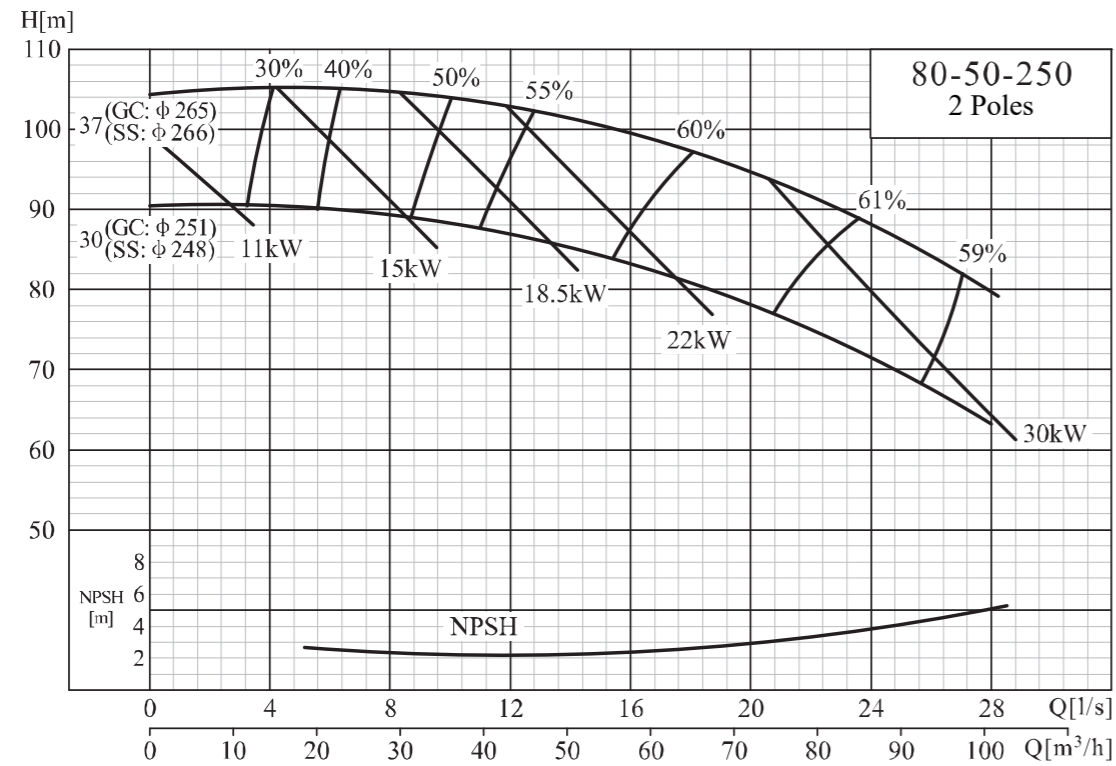
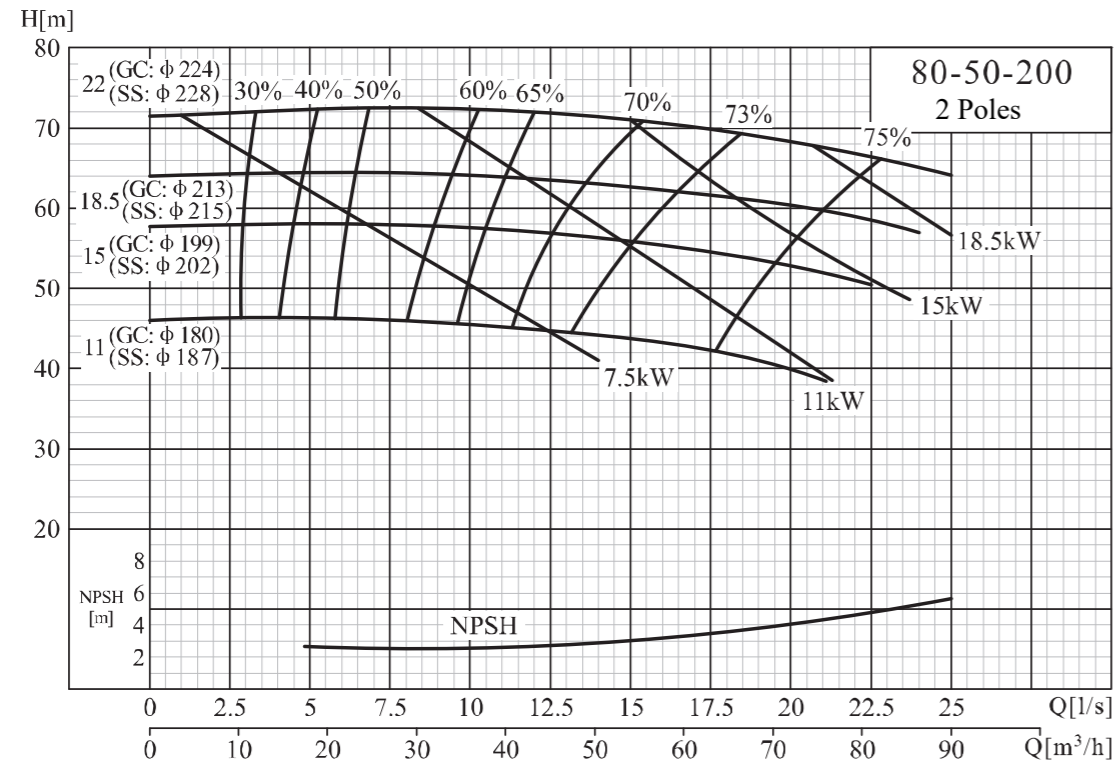
Performance curve

NISO,NIS,NISF 65-40-315/65-50-160



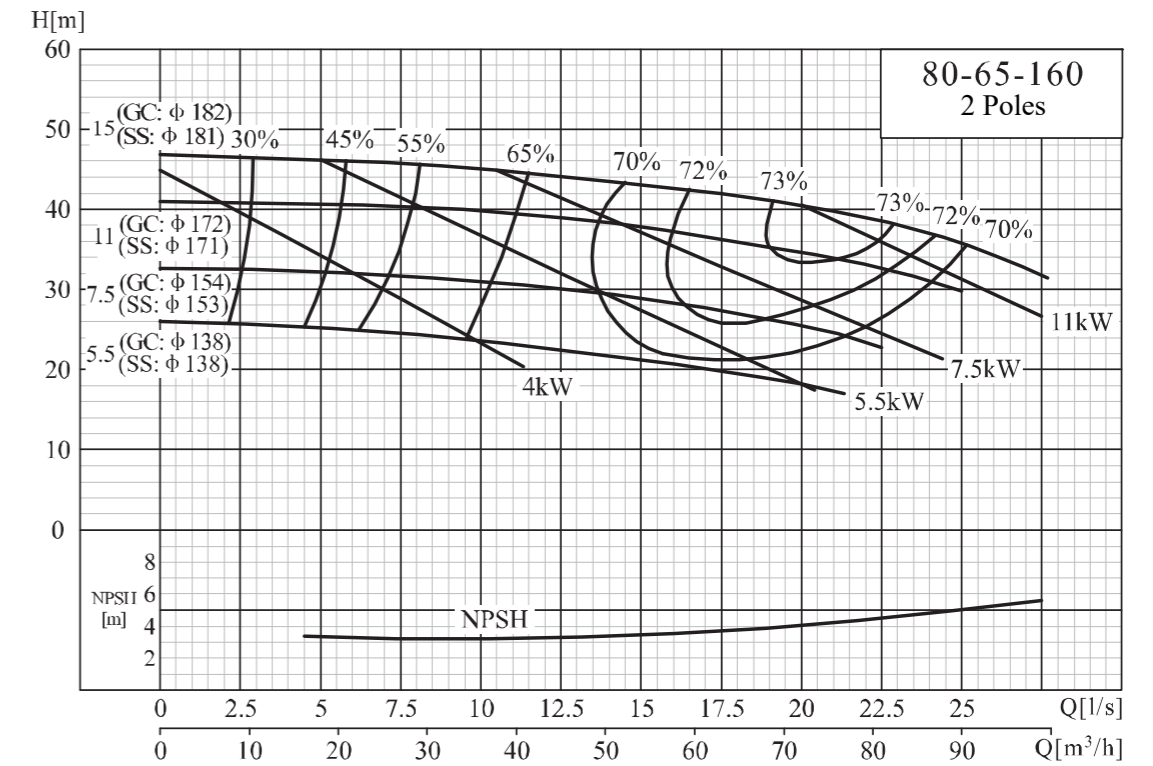
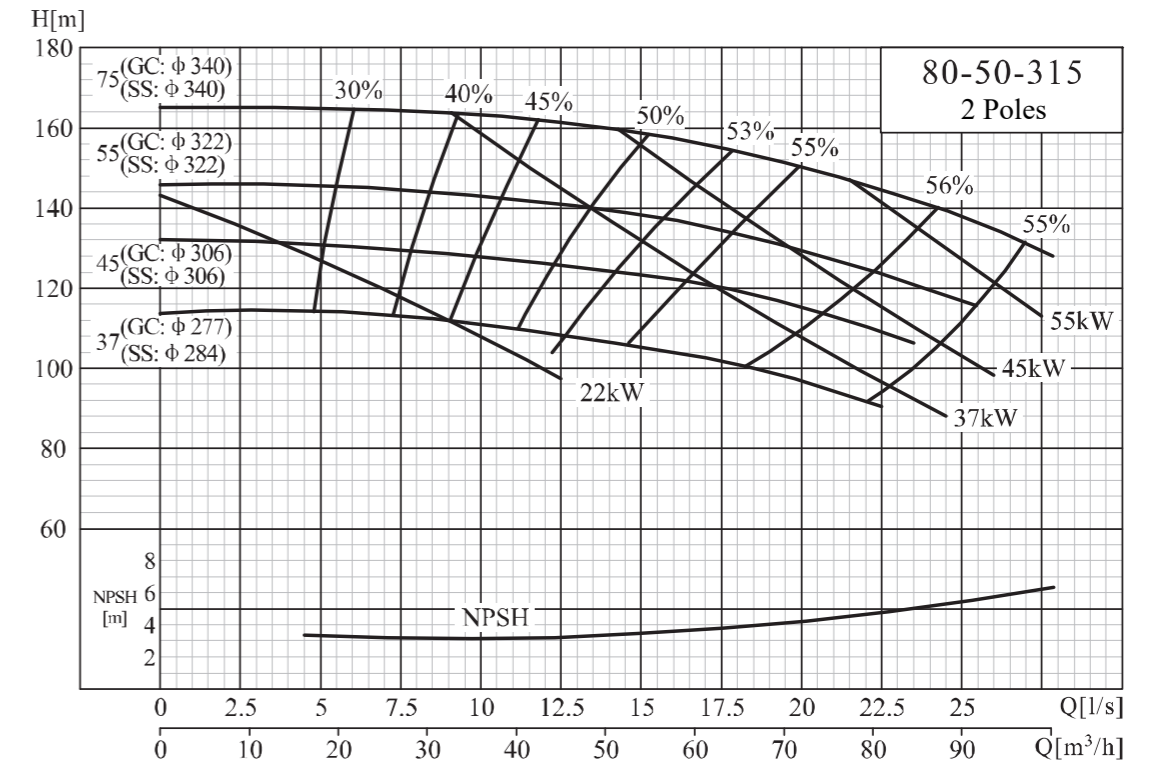
Performance curve

NISO,NIS,NISF80-50-200/80-50-250



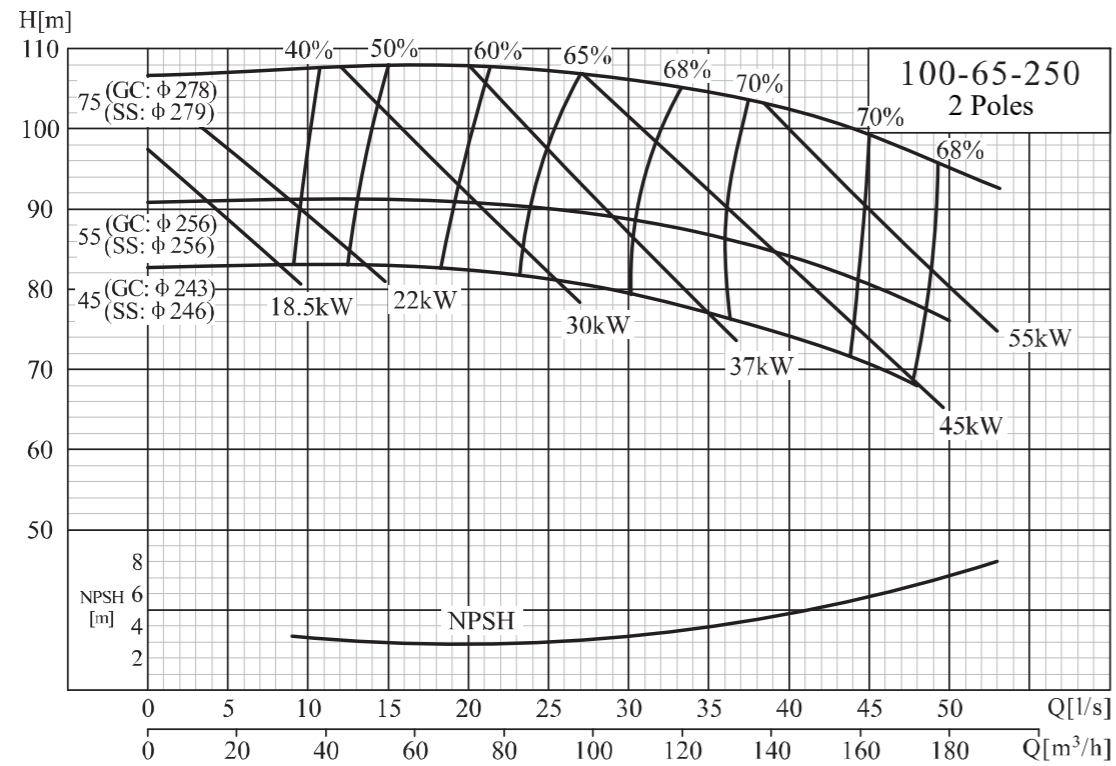
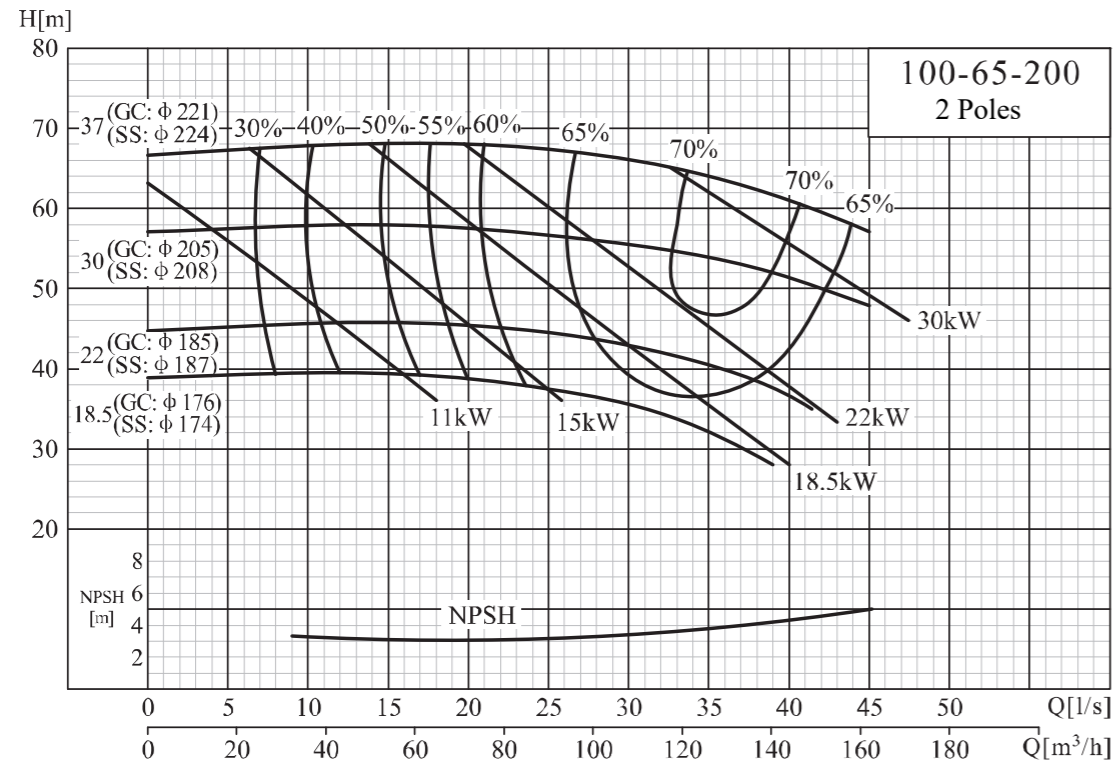
Performance curve

NISO,NIS,NISF 80-50-315/80-65-160



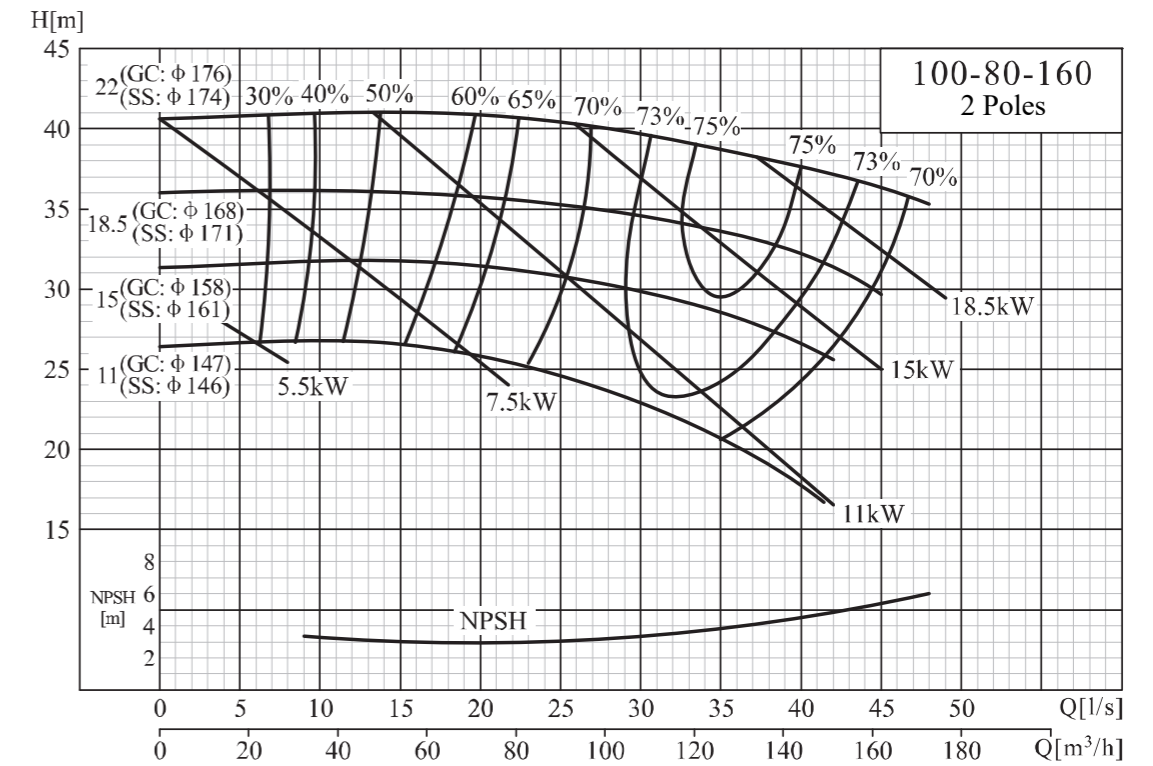
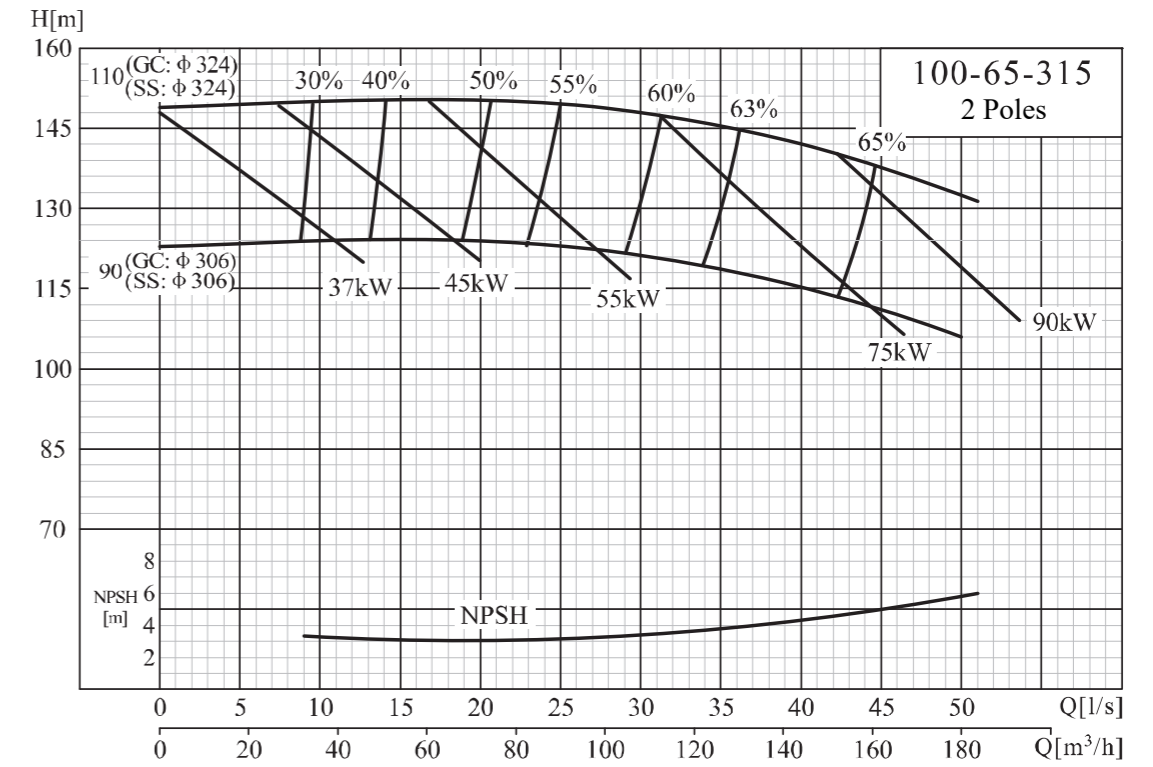
Performance curve

NISO,NIS,NISF100-65-200/100-65-250



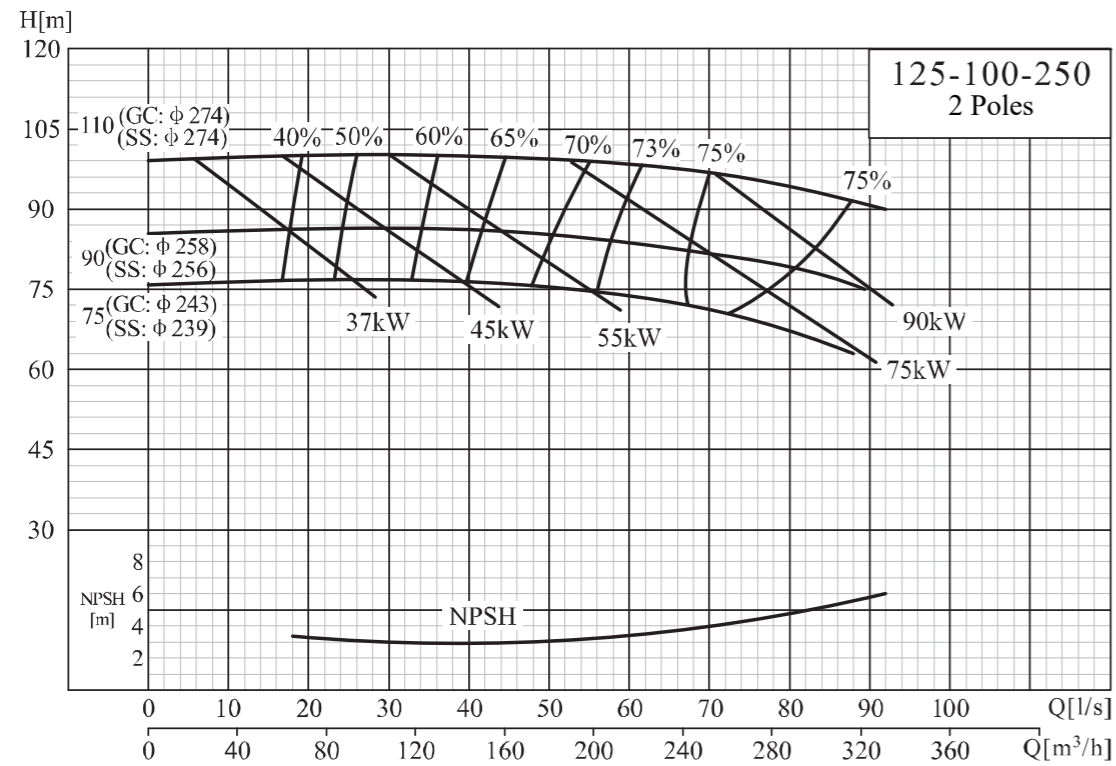
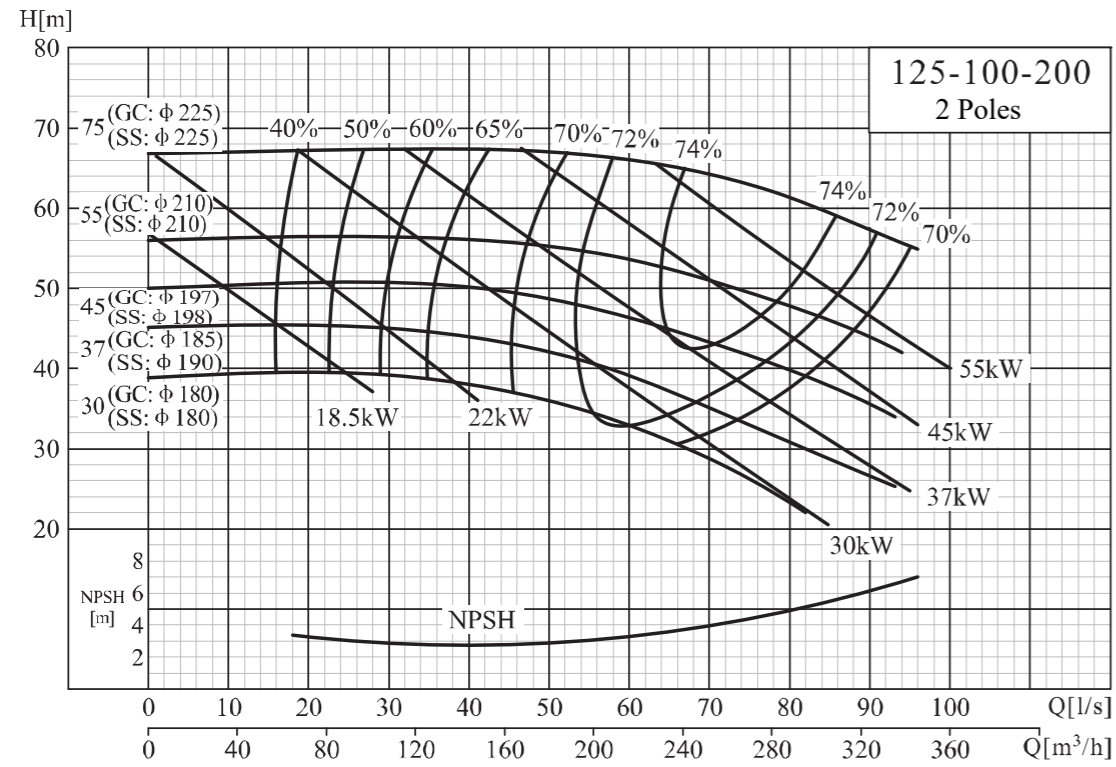
Performance curve

NISO,NIS,NISF 100-65-315/100-80-160



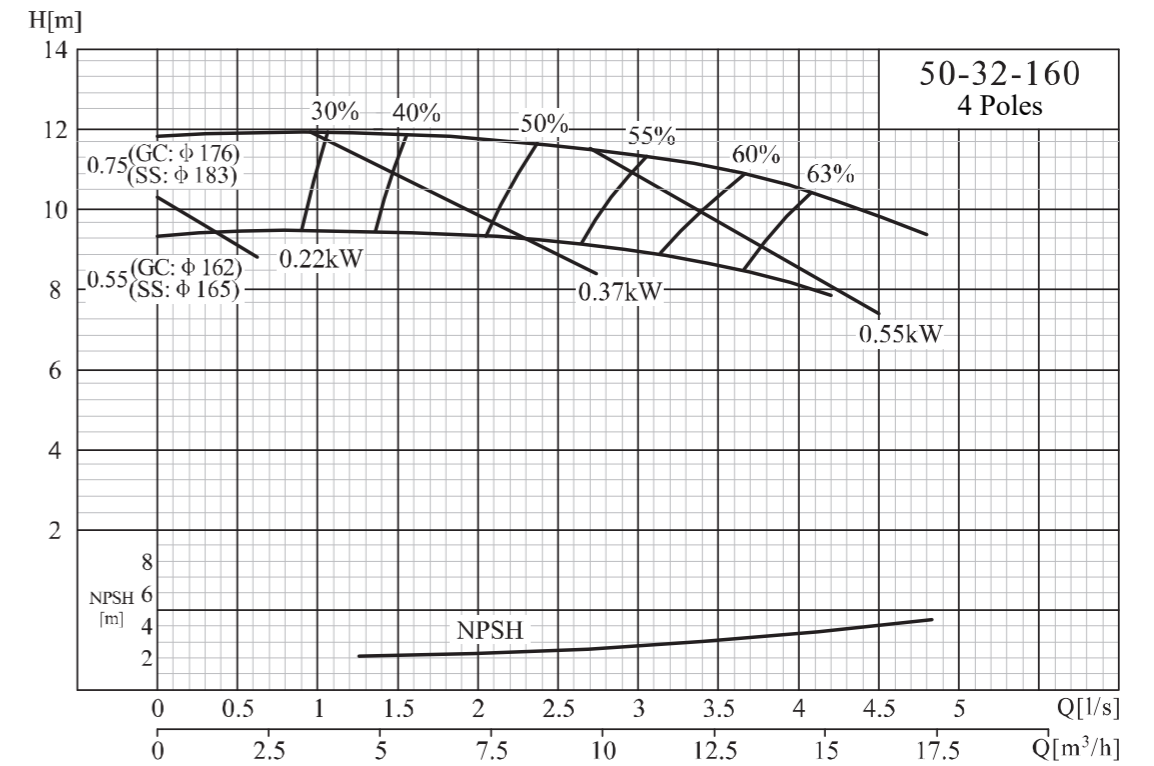
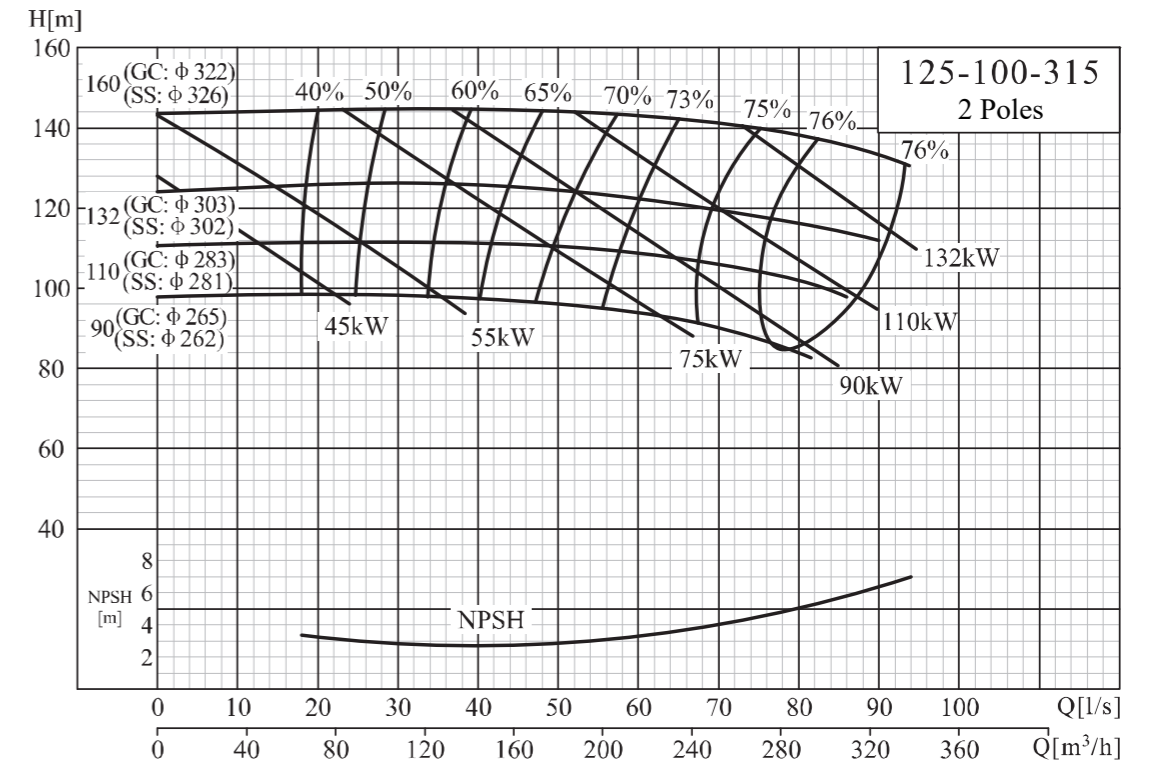
Performance curve

NISO,NIS,NISF125-100-200/125-100-250



Performance curve

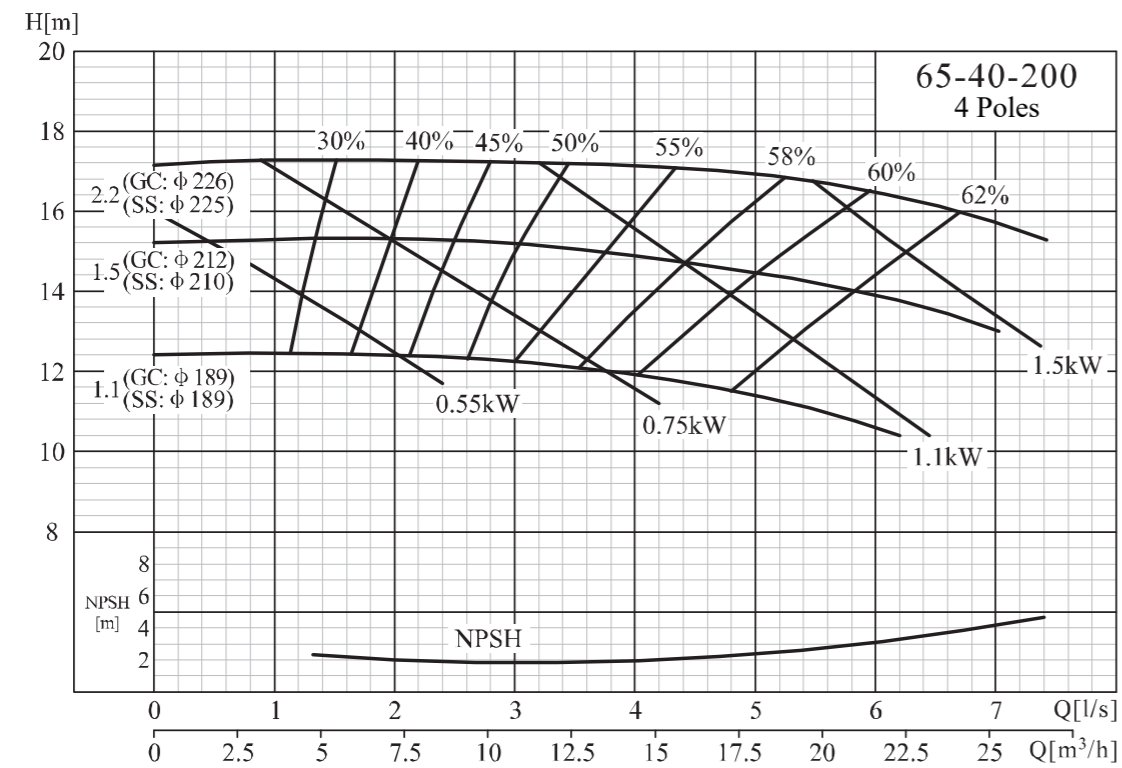
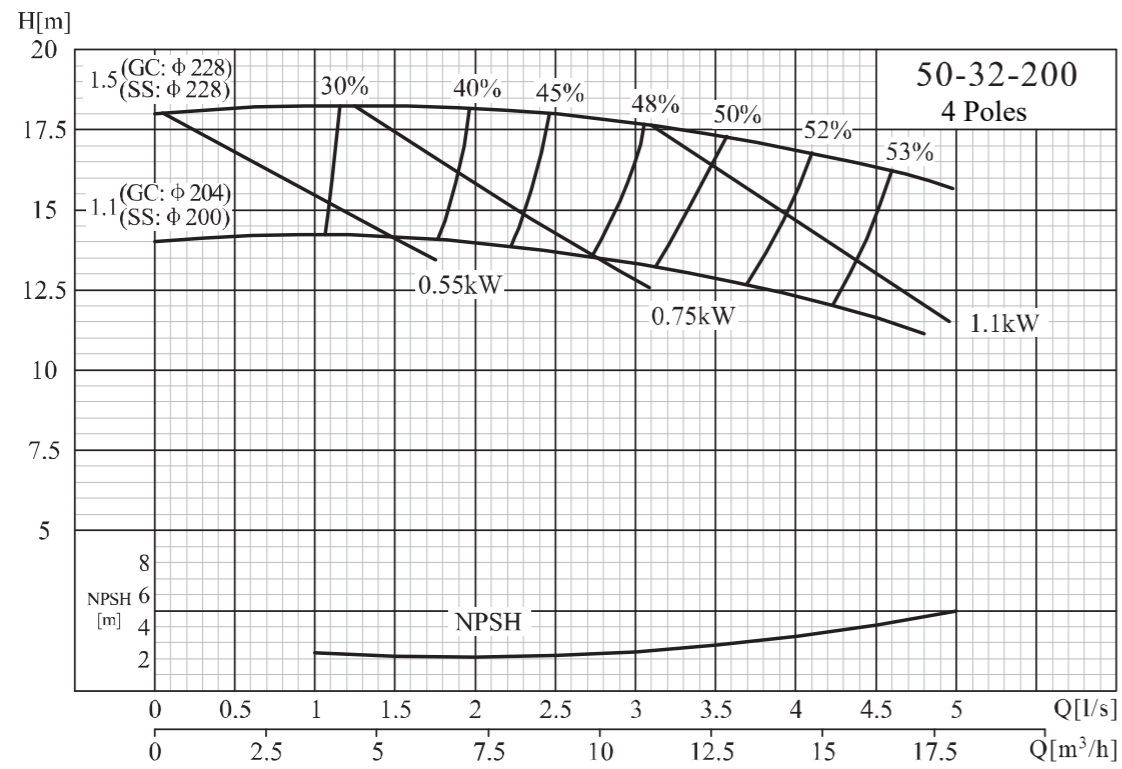
NISO,NIS,NISF 125-100-315/50-32-160





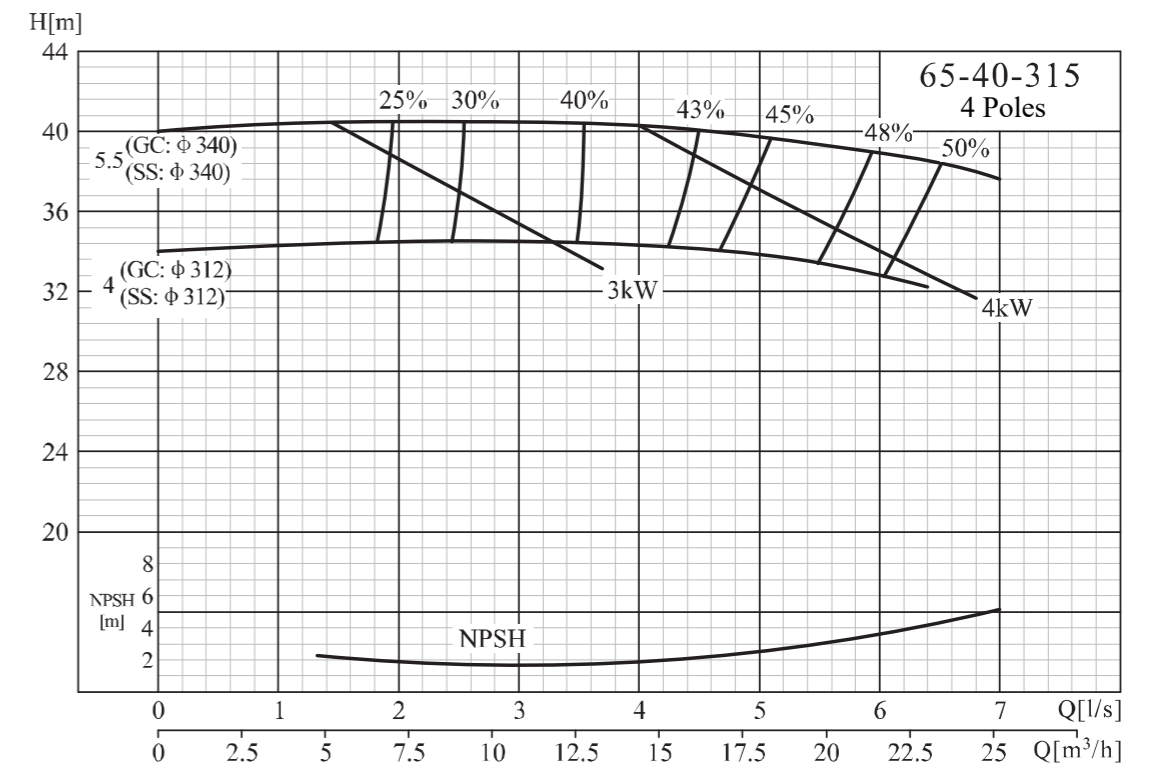
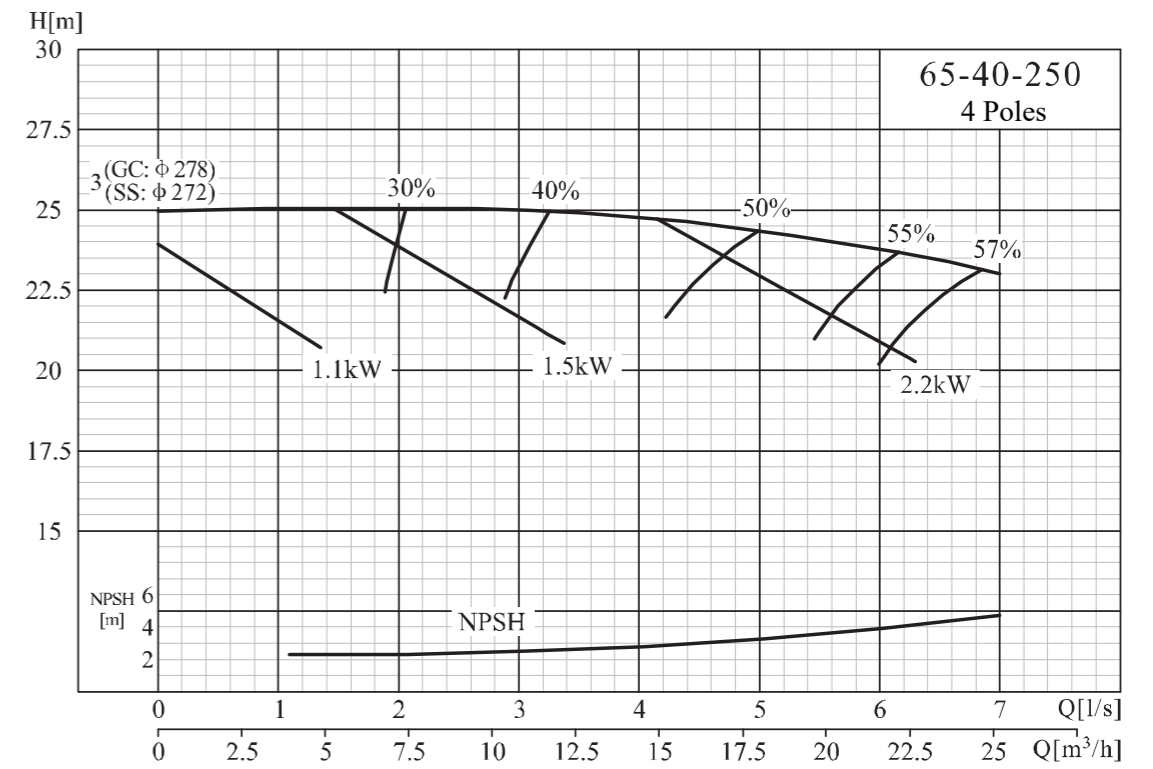
Performance curve

NISO,NIS,NISF50-32-200/65-40-200



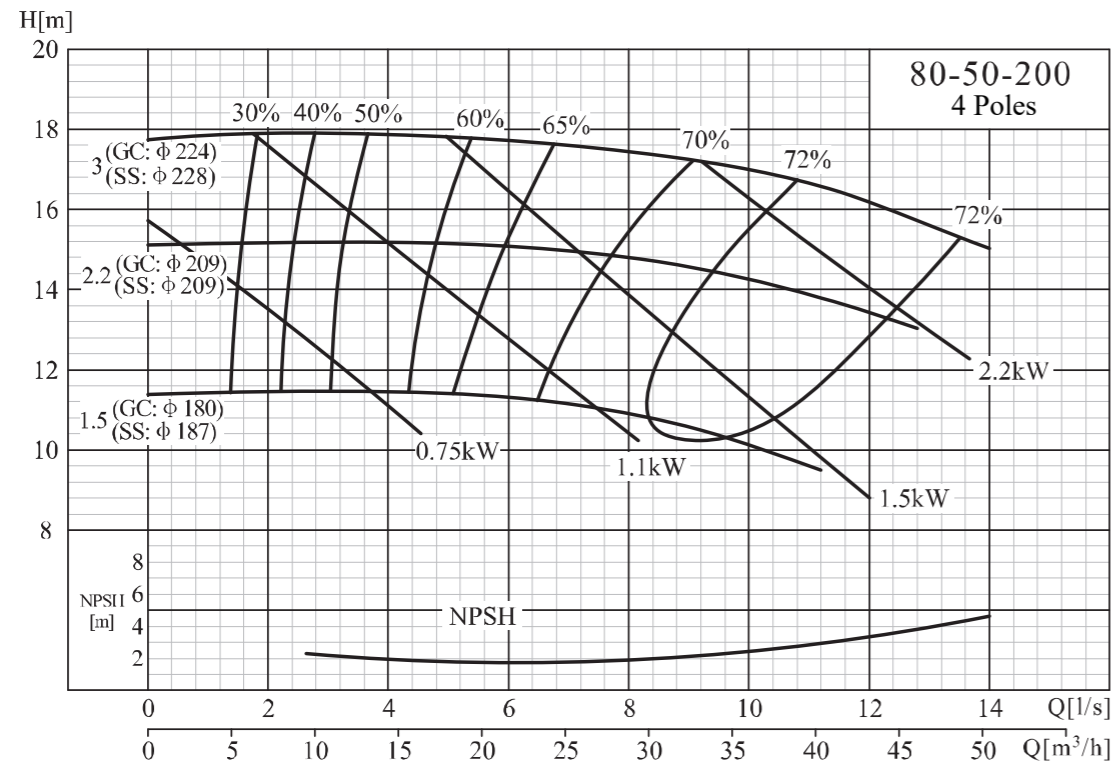
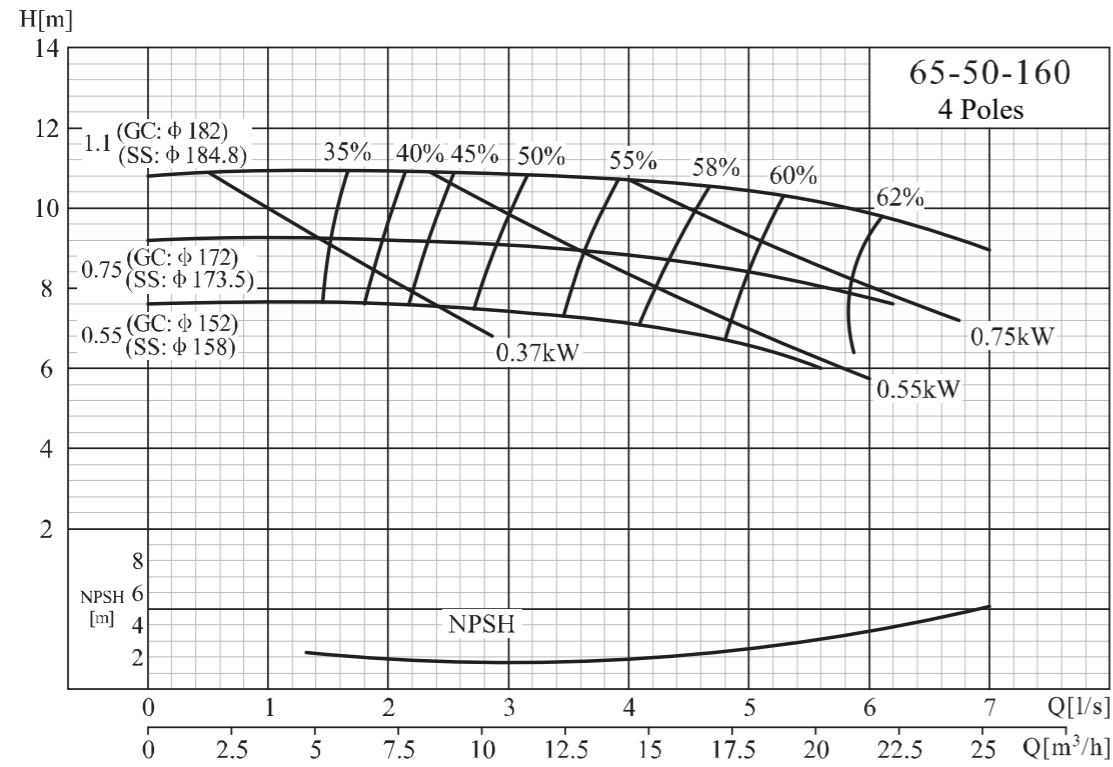
Performance curve

NISO,NIS,NISF 65-40-250/65-40-315



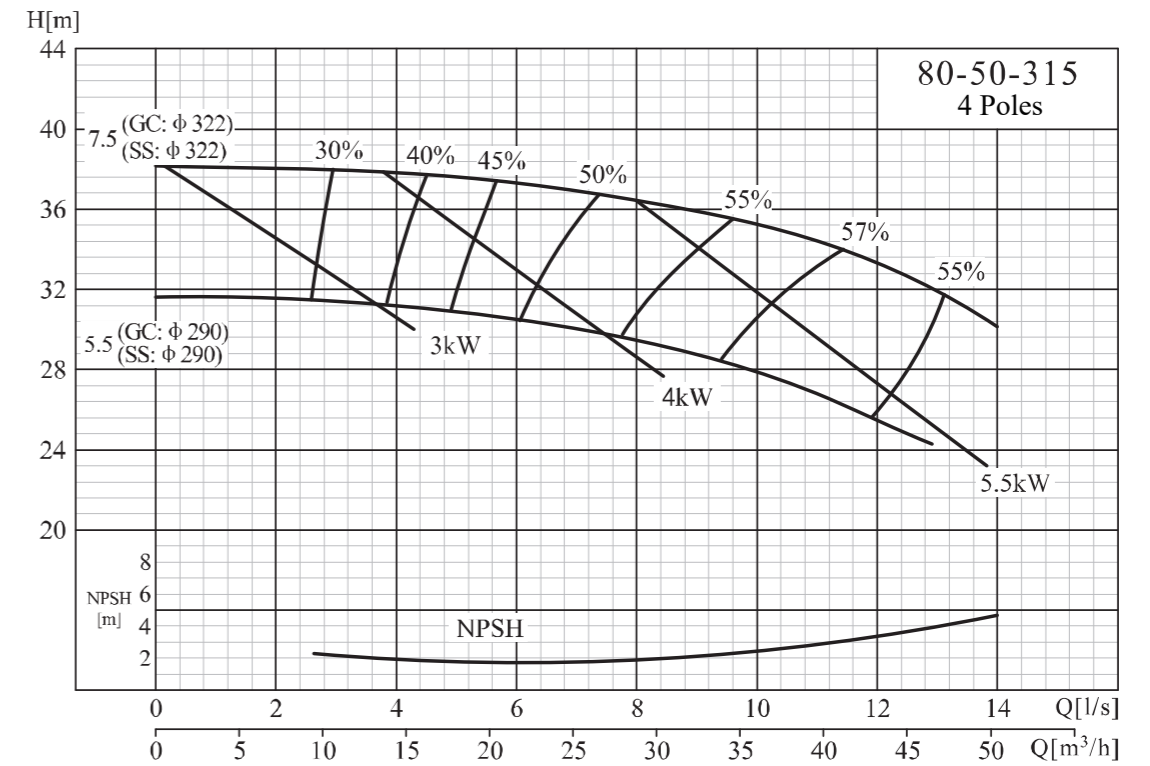
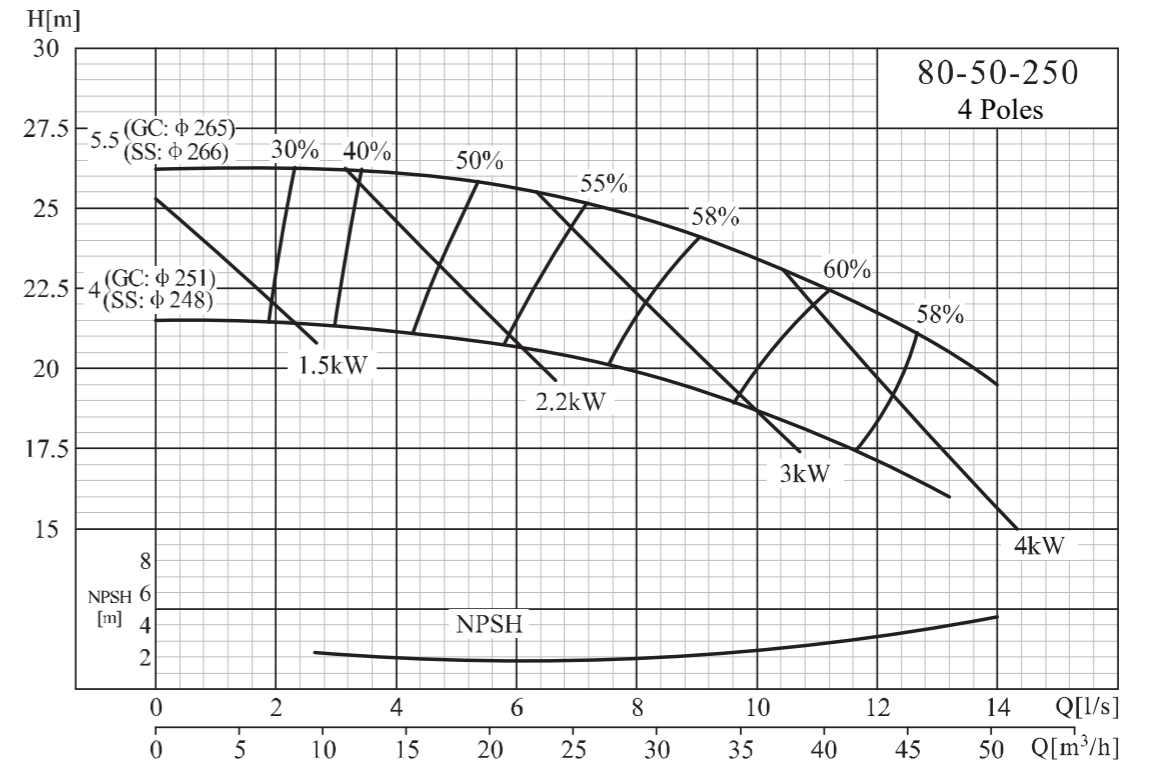
Performance curve

NISO,NIS,NISF65-50-160/80-50-200



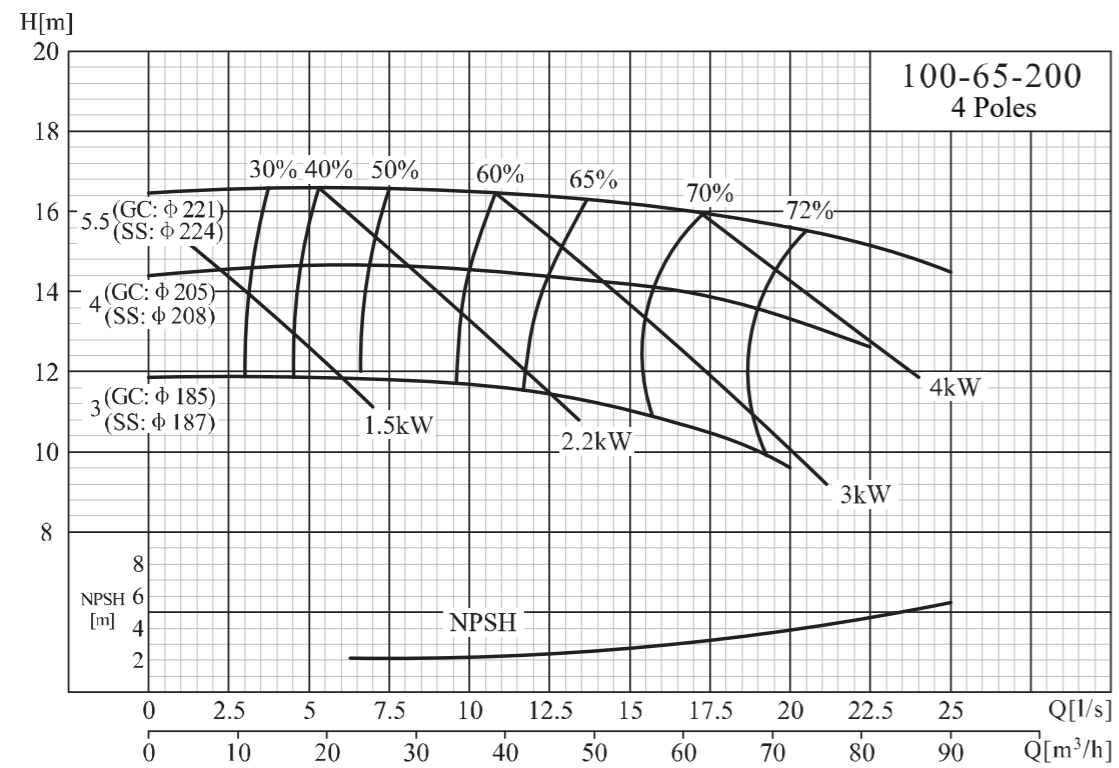
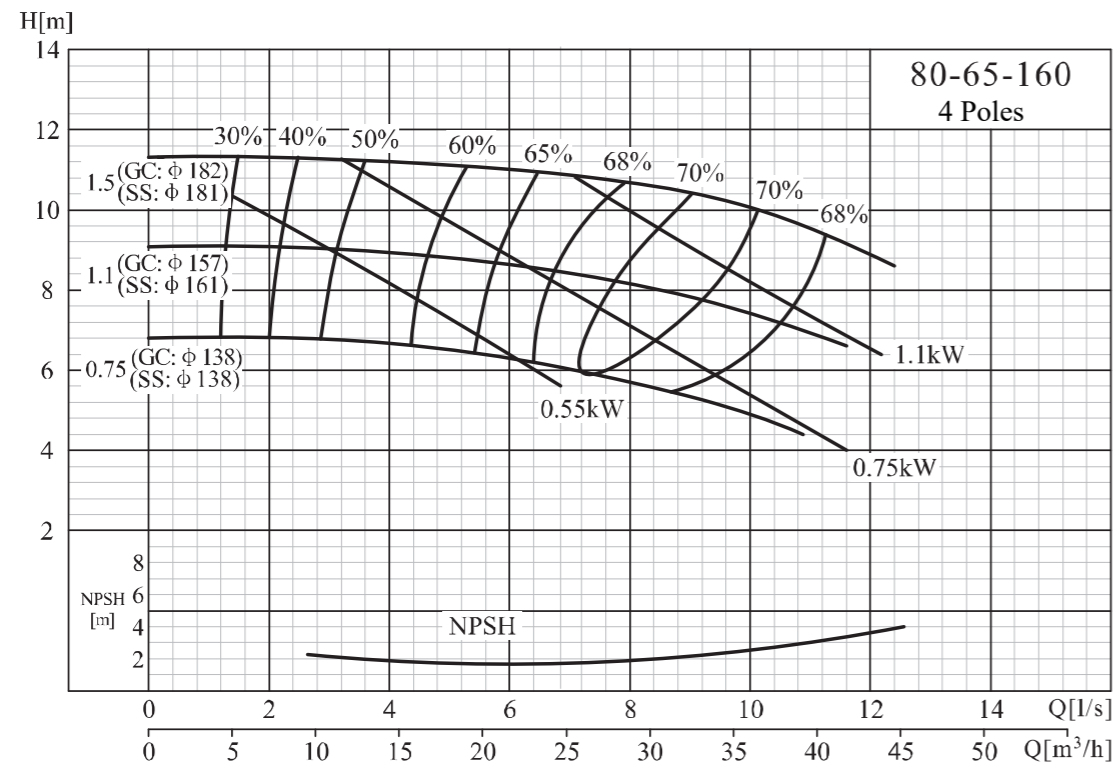
Performance curve

NISO,NIS,NISF 80-50-250/80-50-315



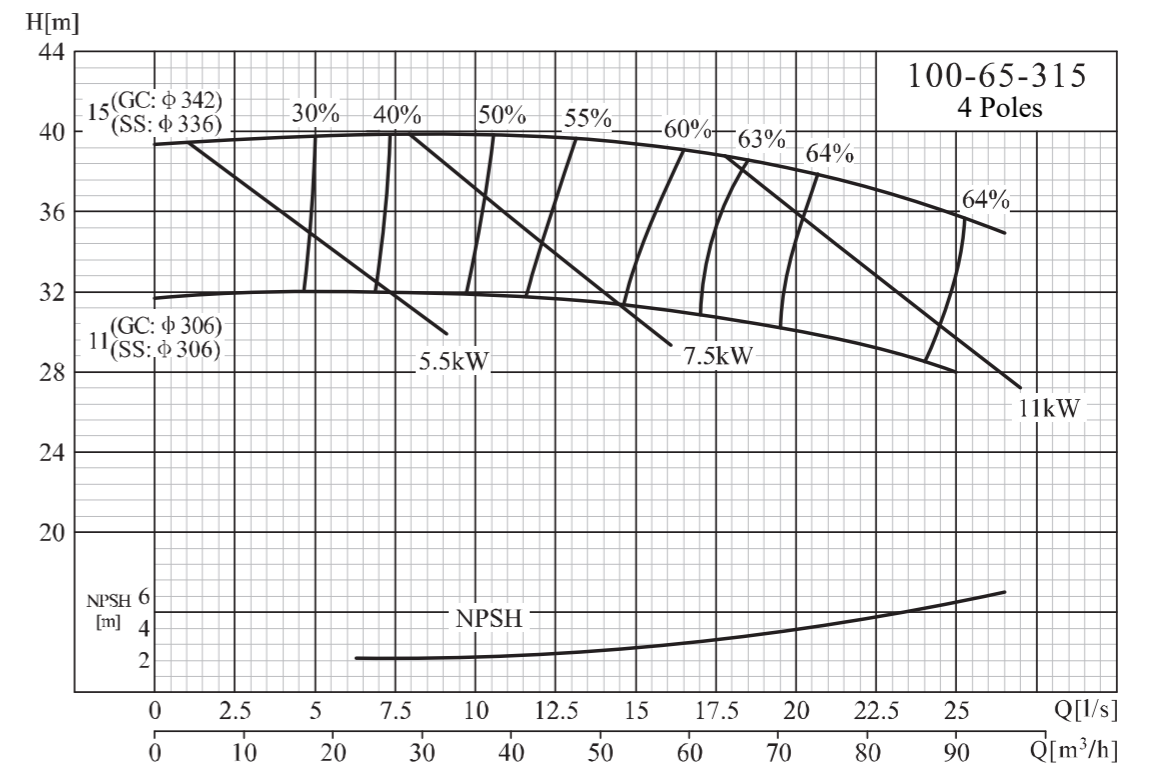
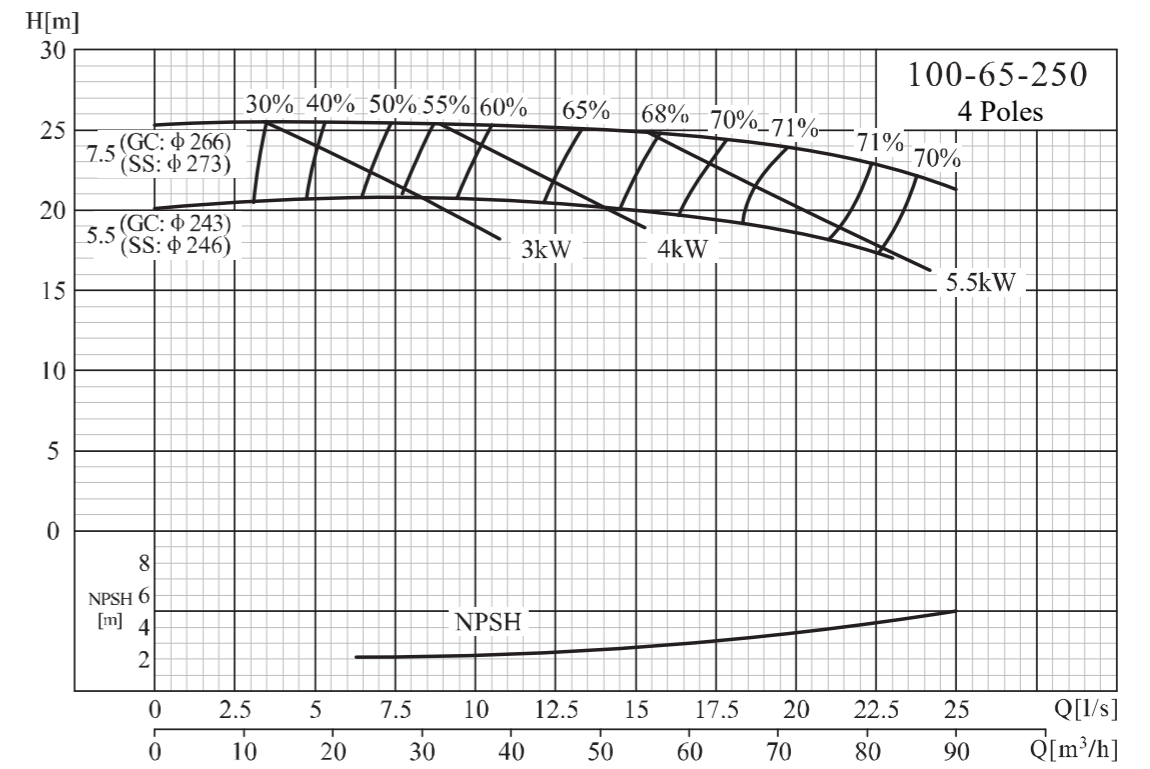
Performance curve

NISO,NIS,NISF80-65-160/100-65-200



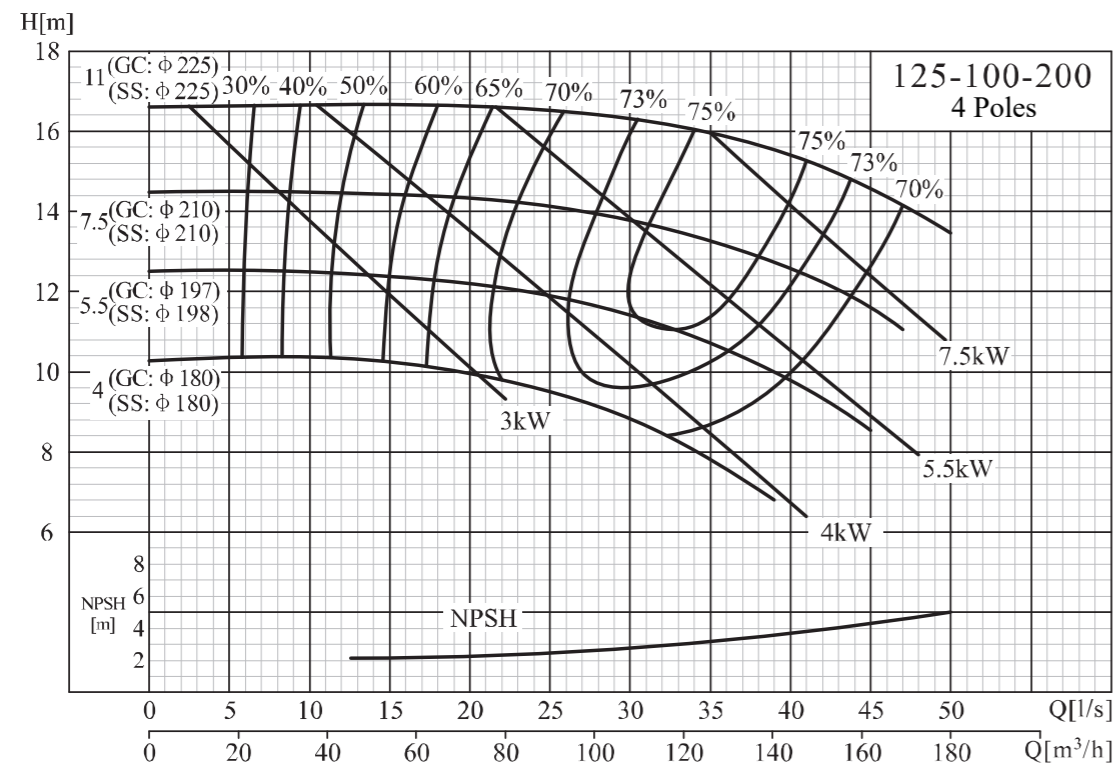
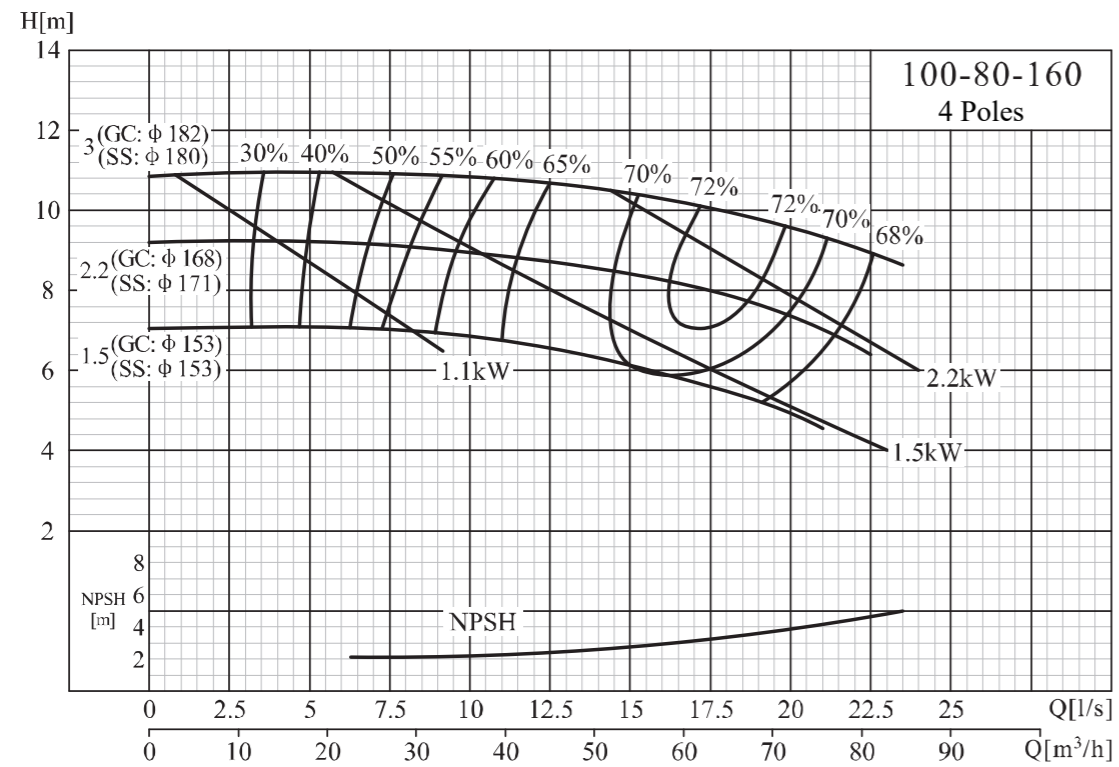
Performance curve

NISO,NIS,NISF 100-65-250/100-65-315



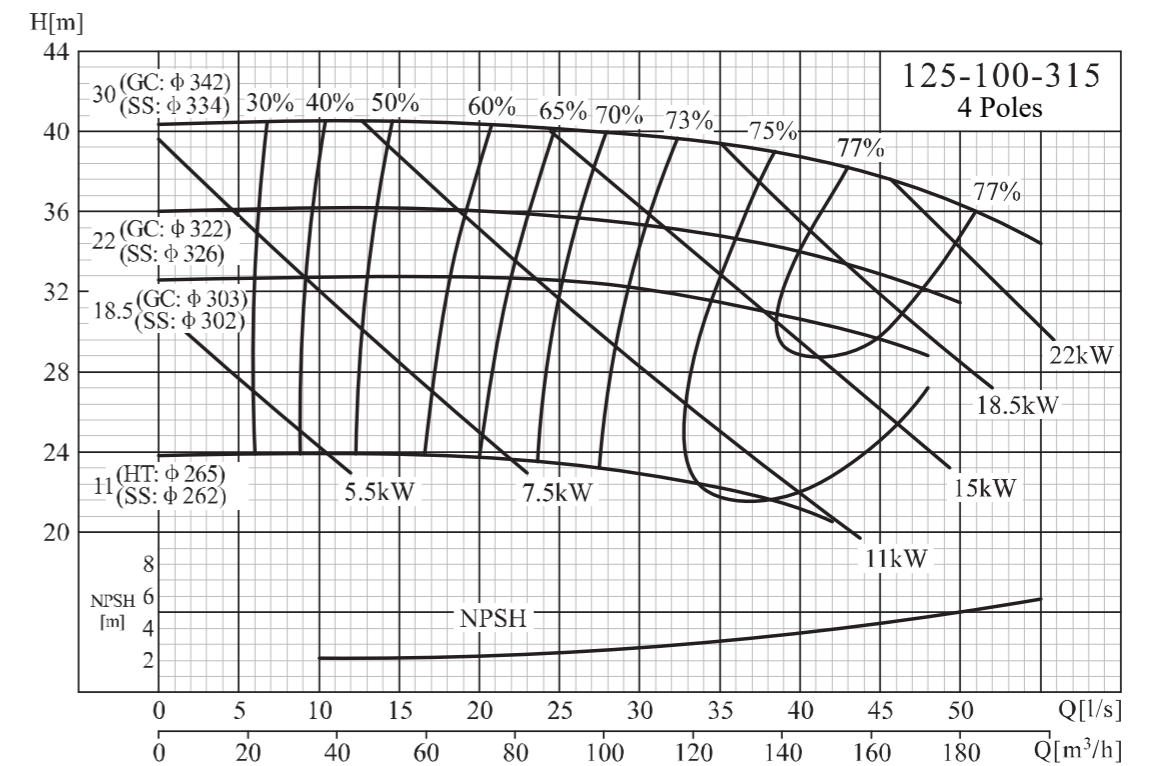
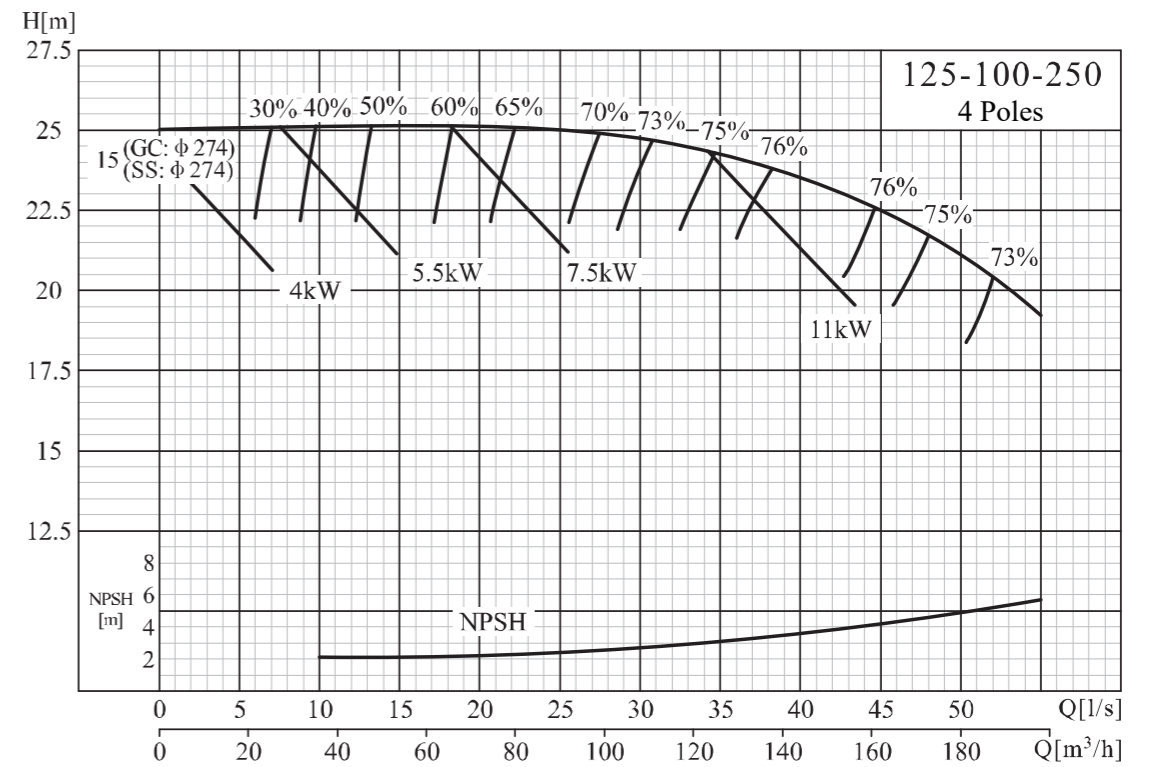
Performance curve

NISO,NIS,NISF100-80-160/125-100-200



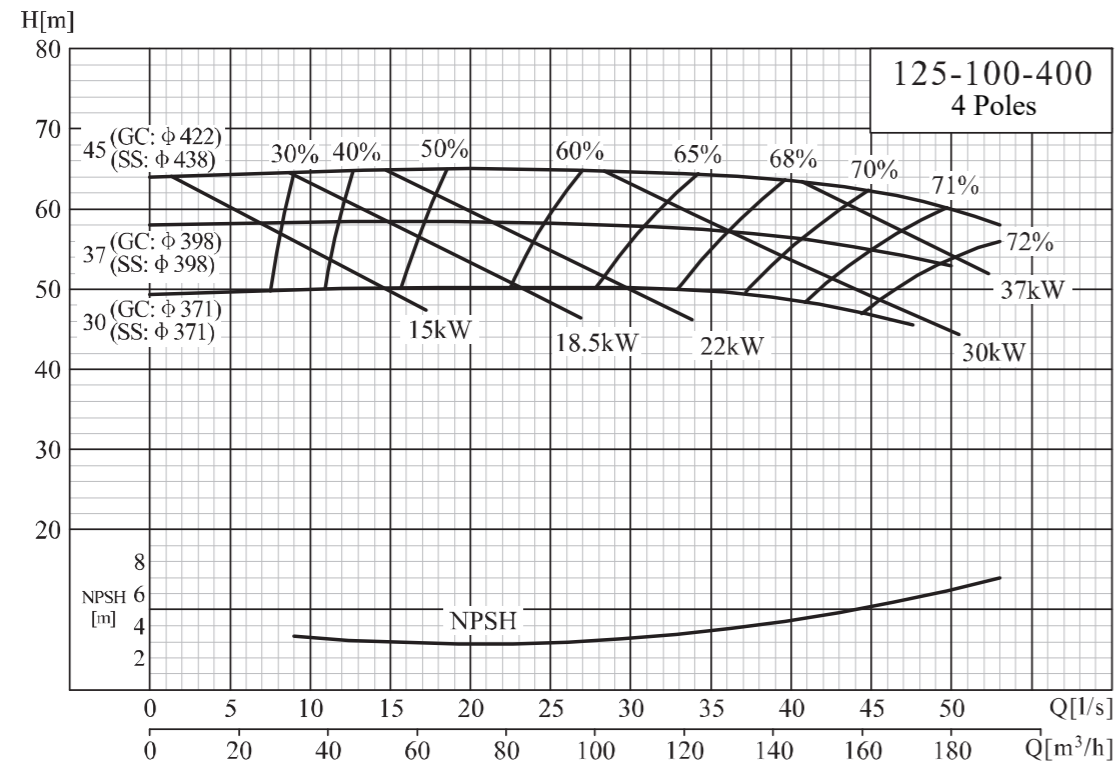
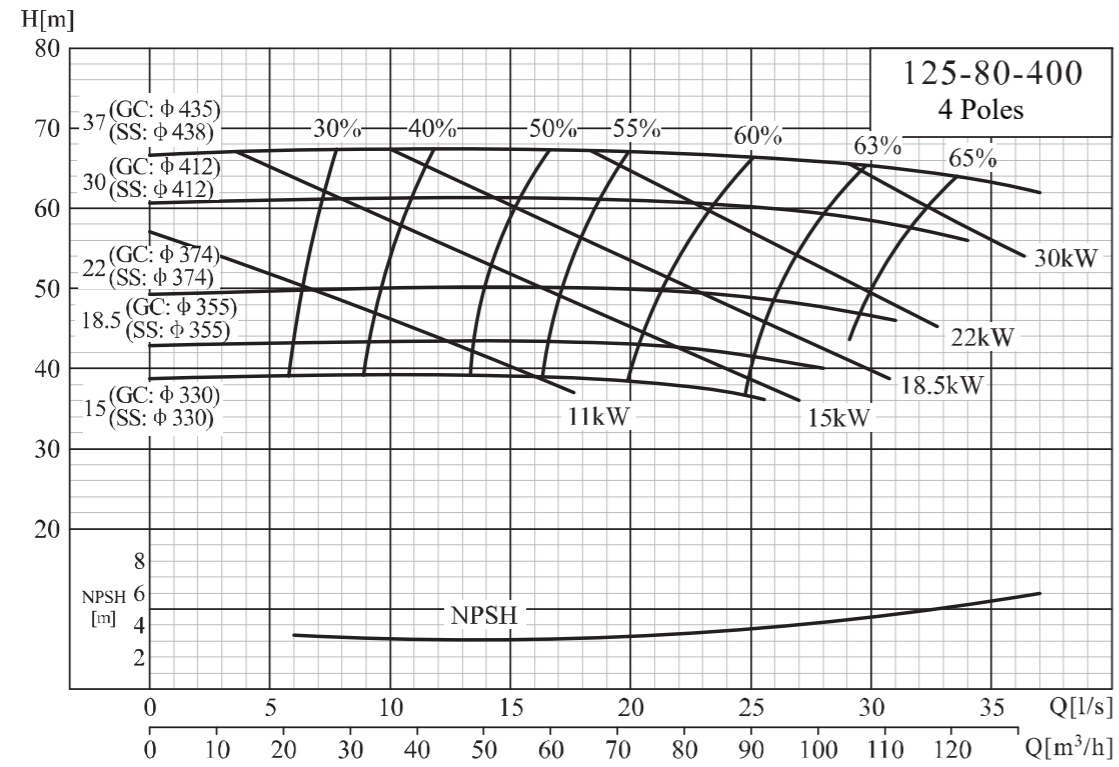
Performance curve

NISO,NIS,NISF125-100-250/125-100-315



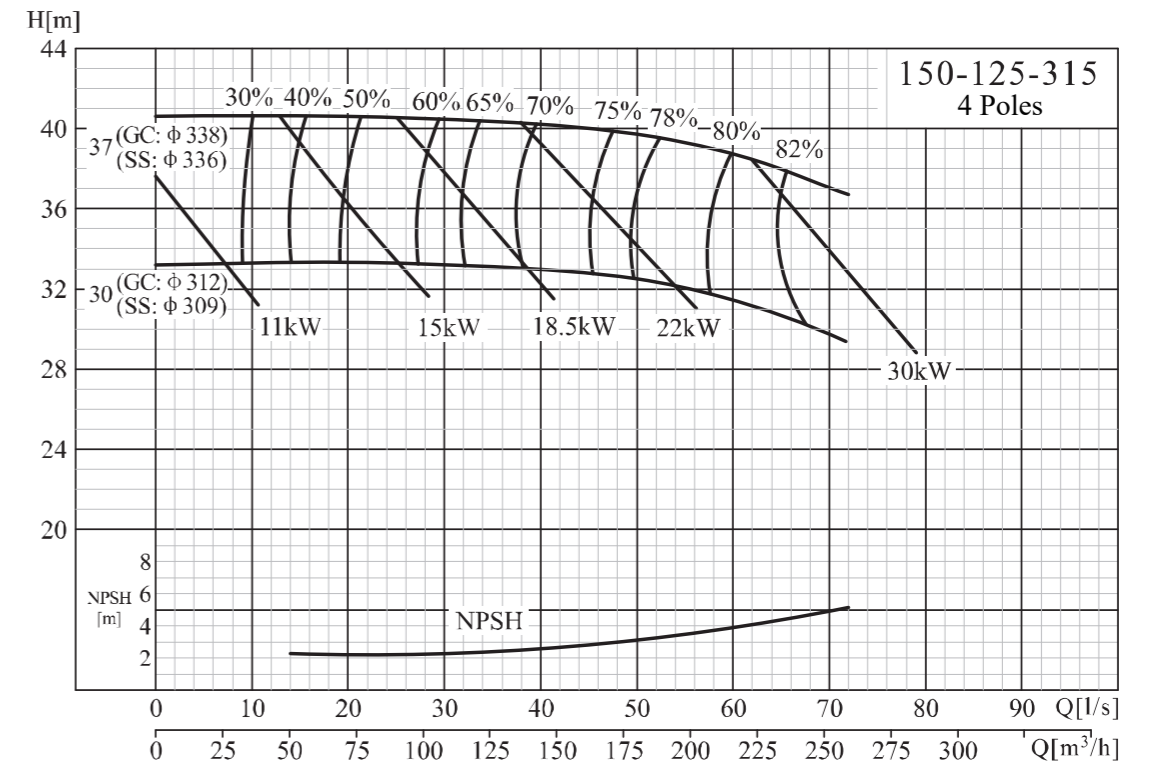
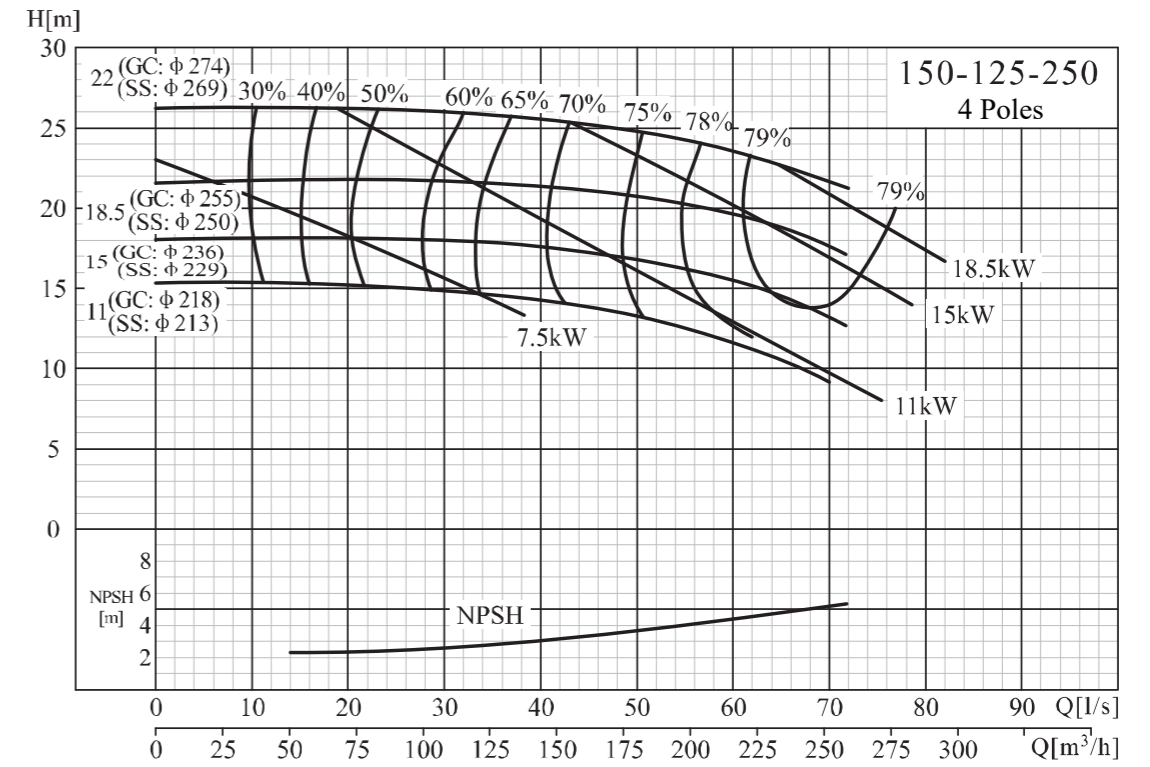
Performance curve

NISO,NIS,NISF125-80-400/125-100-400



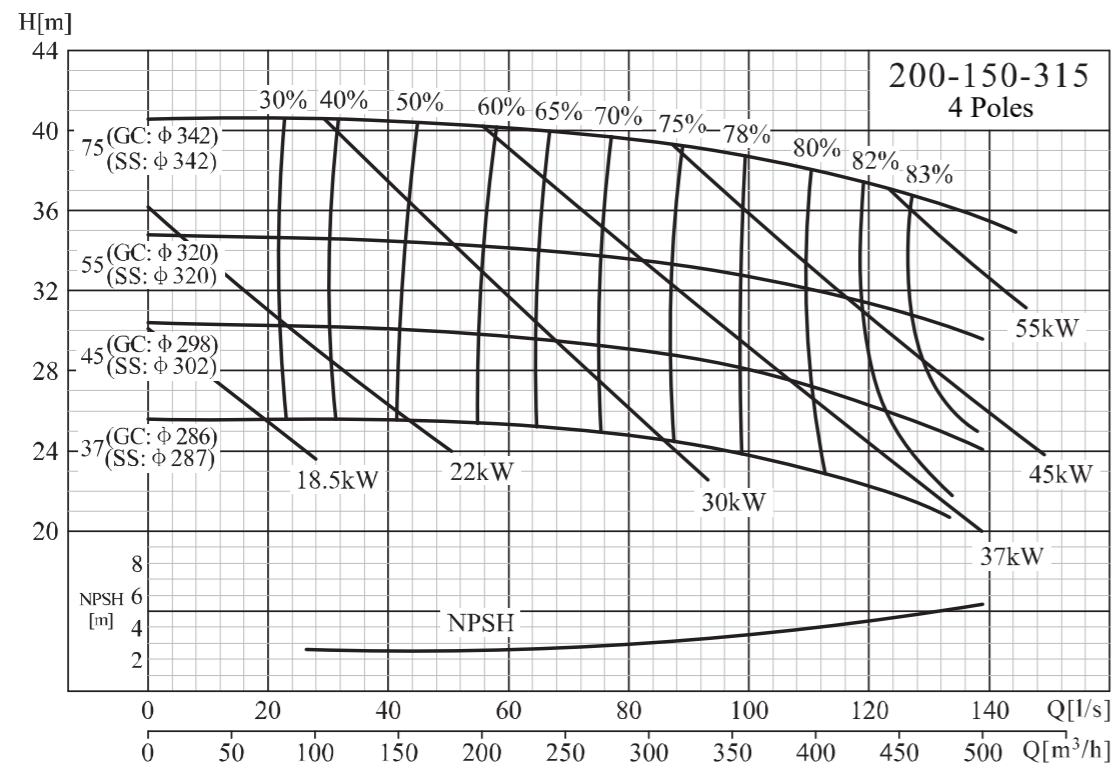
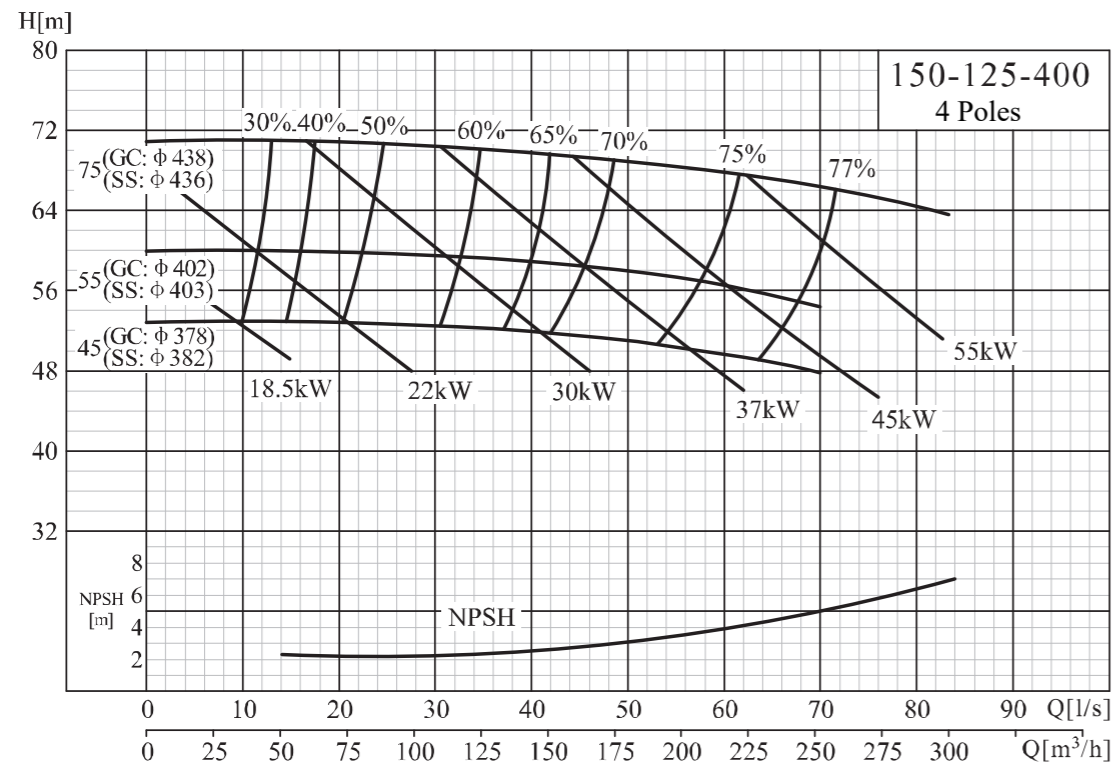
Performance curve

NISO,NIS,NISF150-125-250/150-125-315



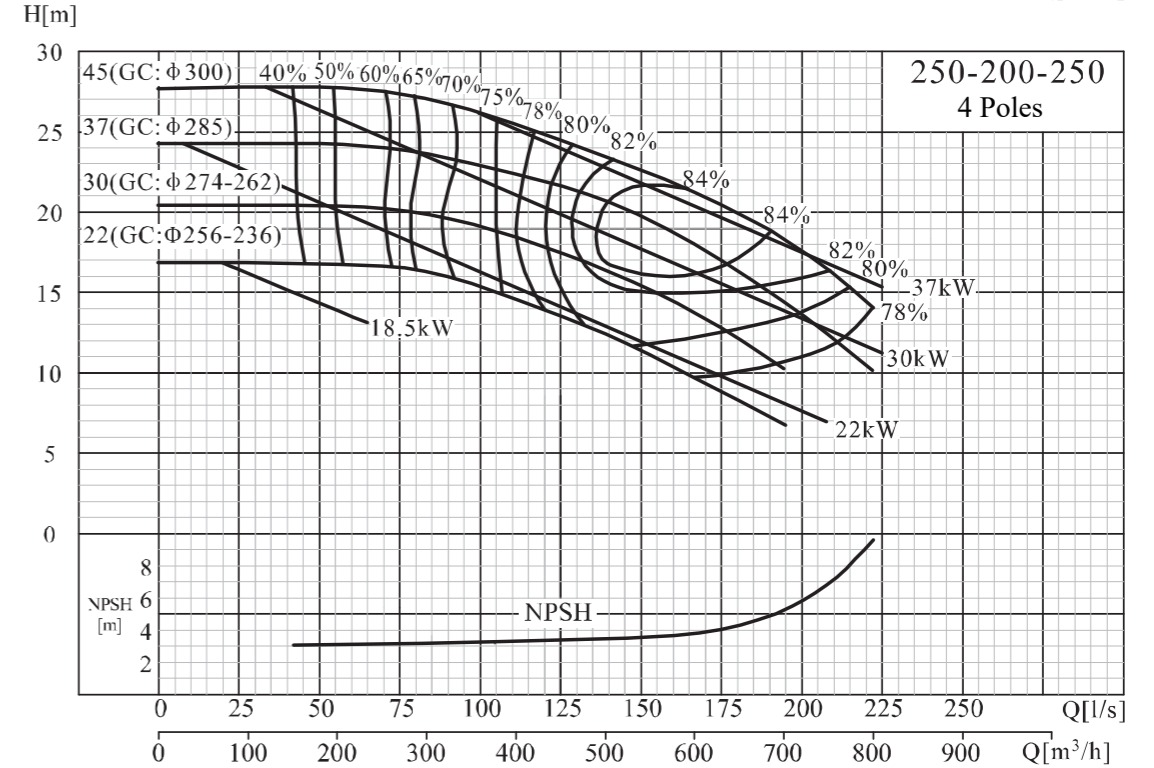
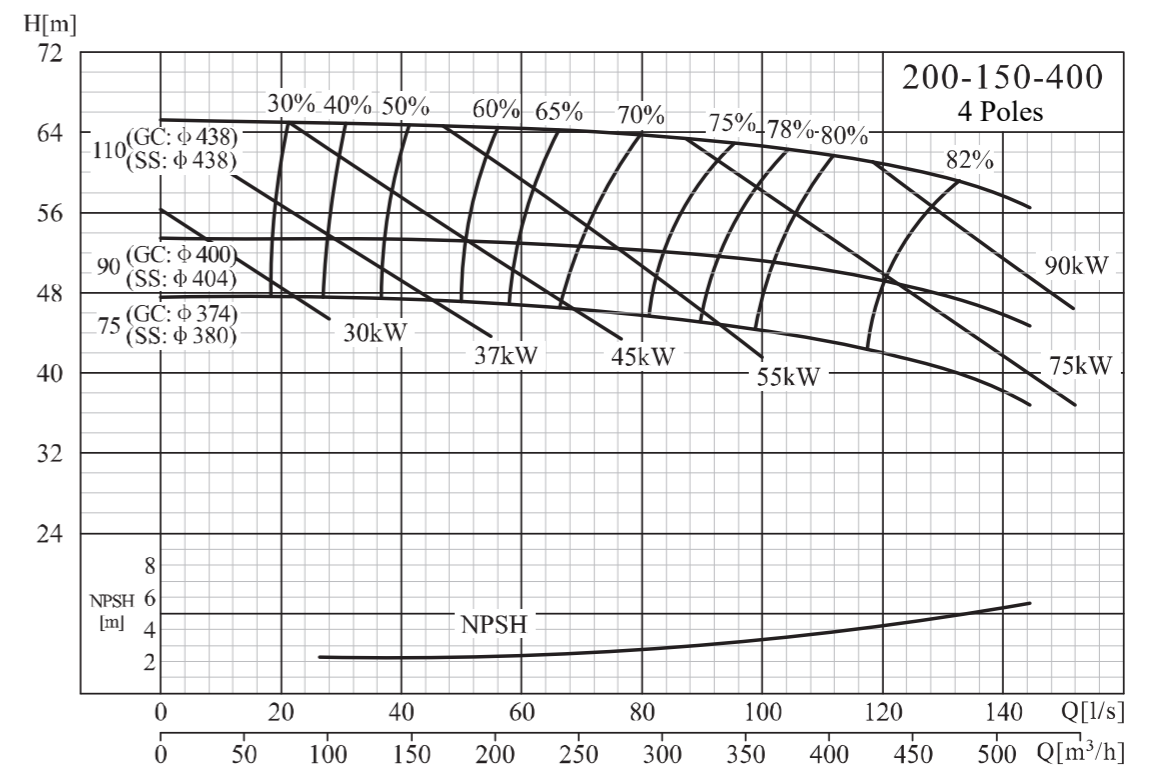
Performance curve

NISO,NIS,NISF150-125-400/200-150-315



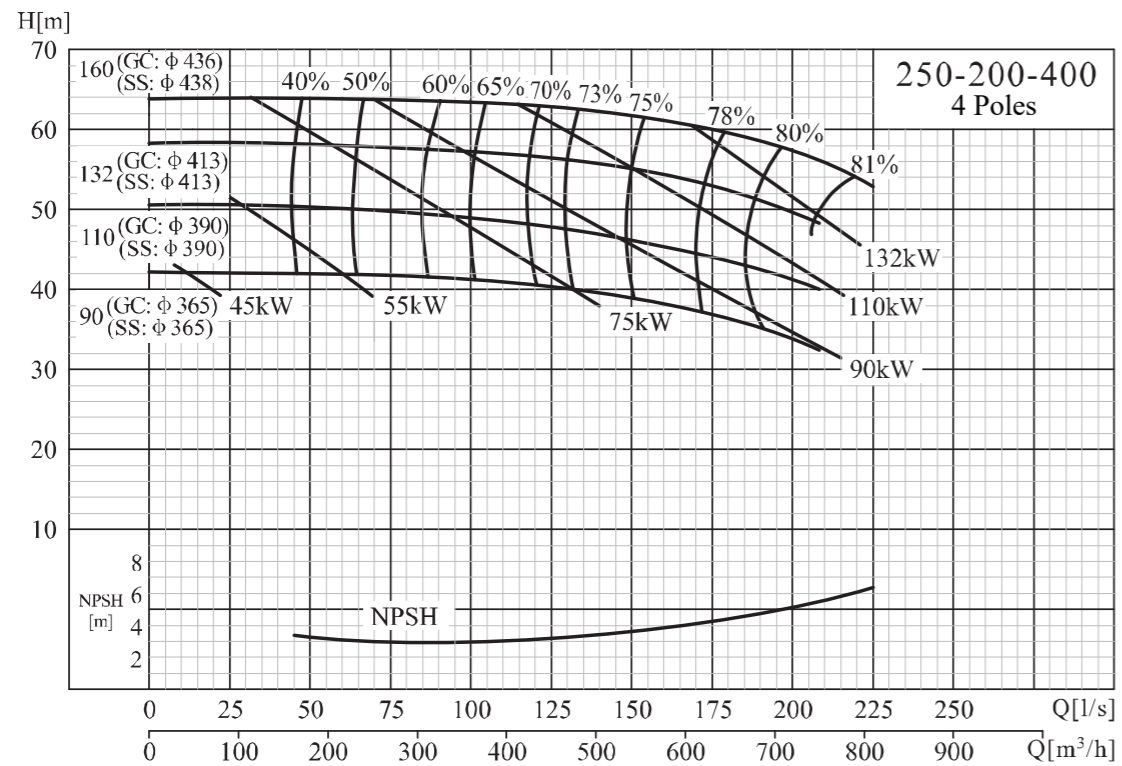
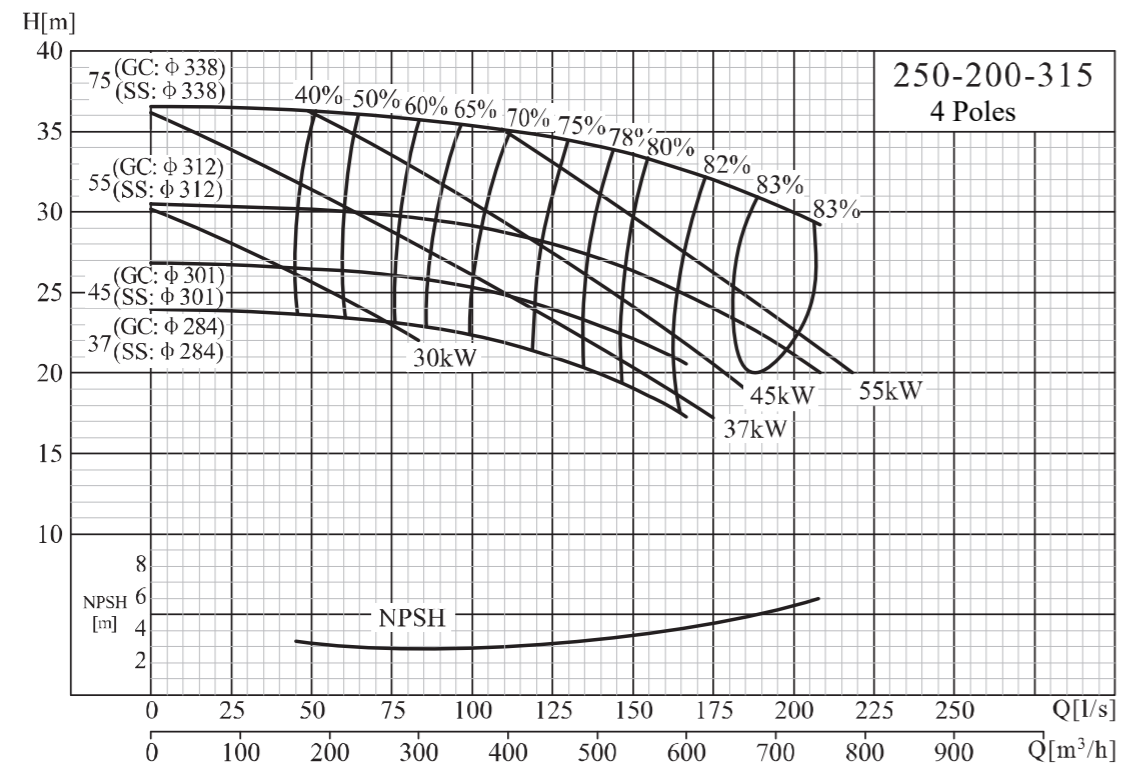
Performance curve

NISO,NIS,NISF200-150-400/250-200-250



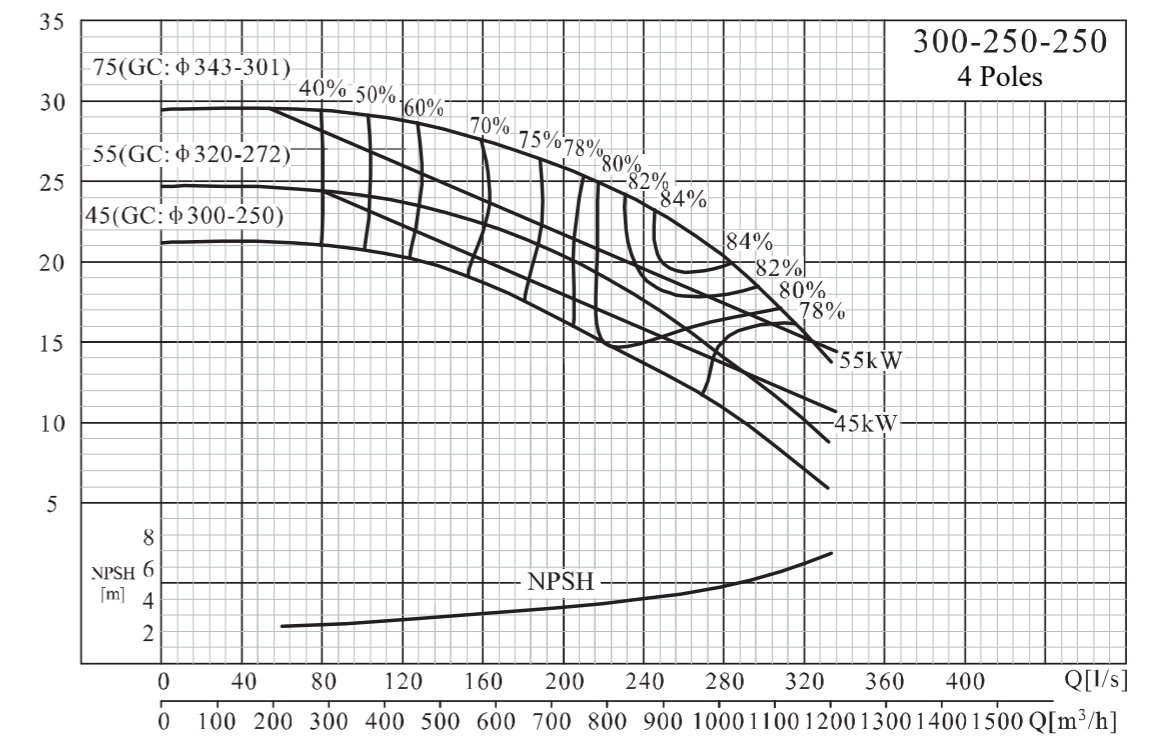
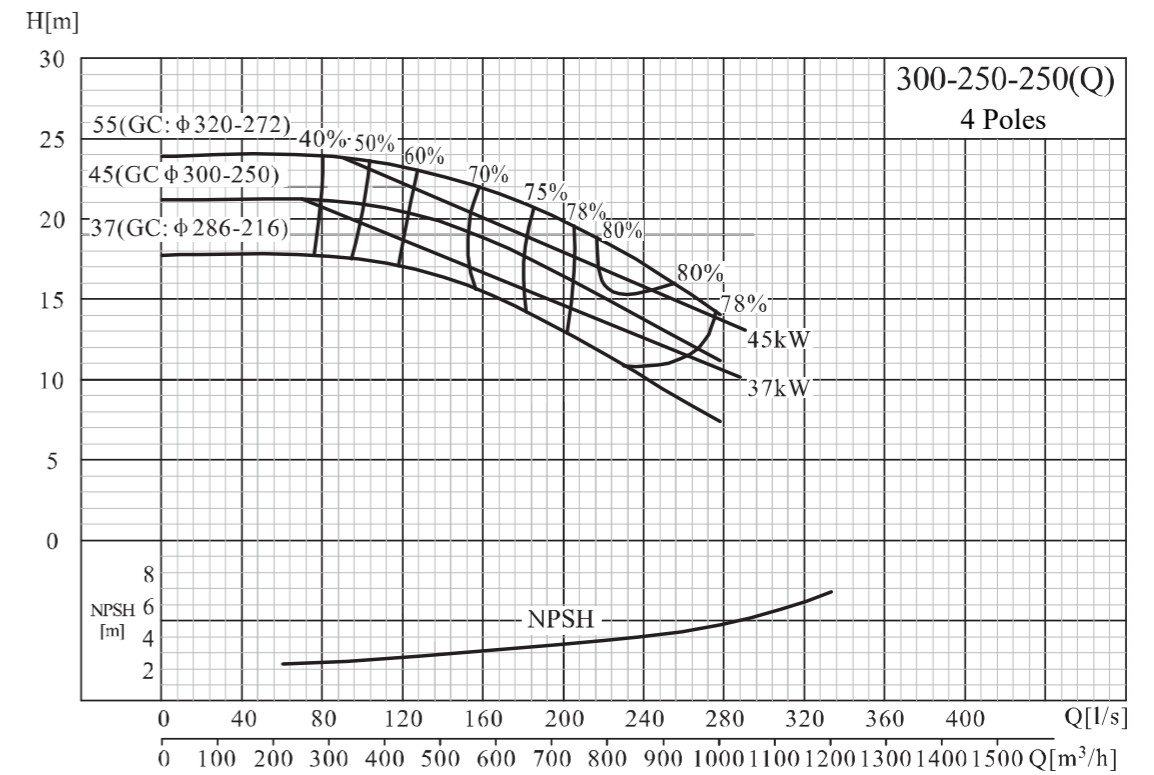
Performance curve

NISO,NIS,NISF250-200-315/250-200-400



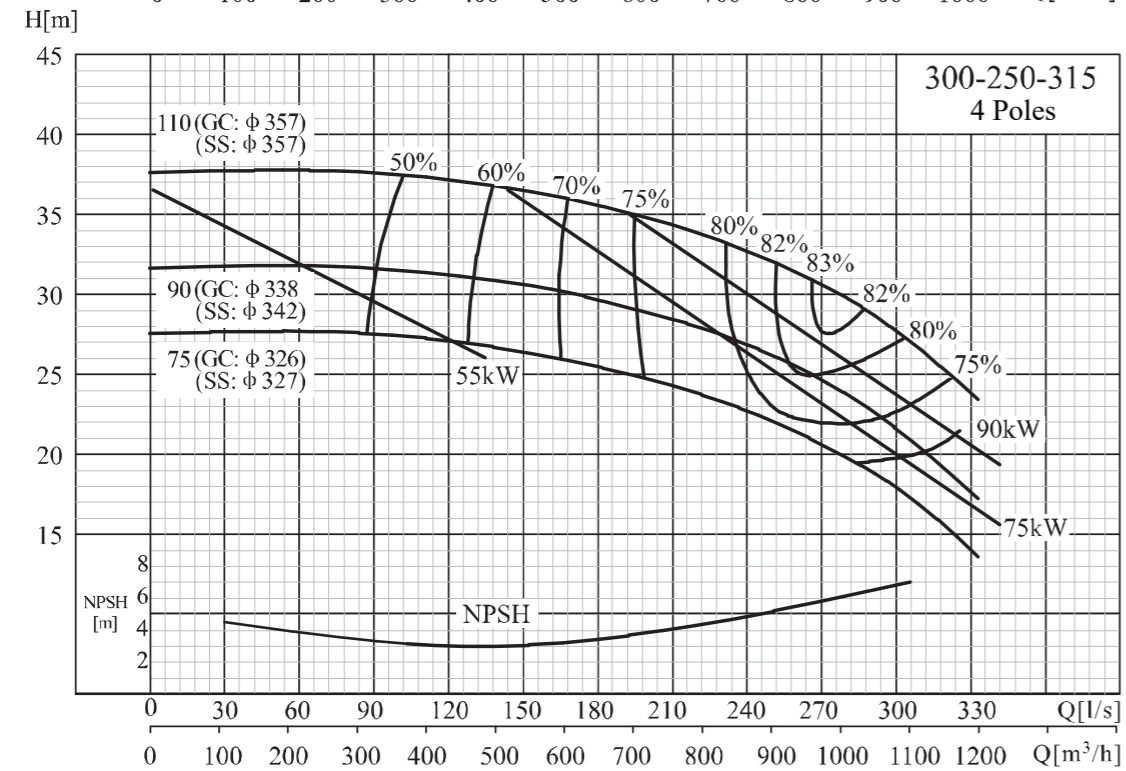
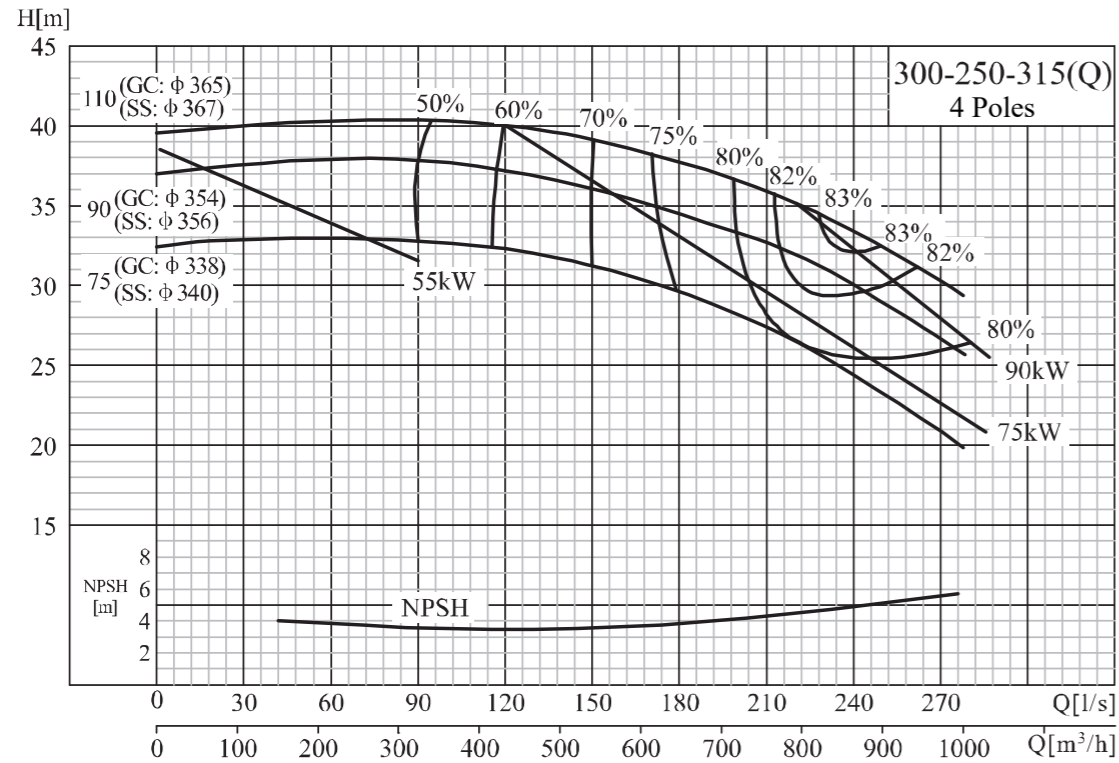
Performance curve

NISO,NIS,NISF300-250-250(Q)/300-250-250



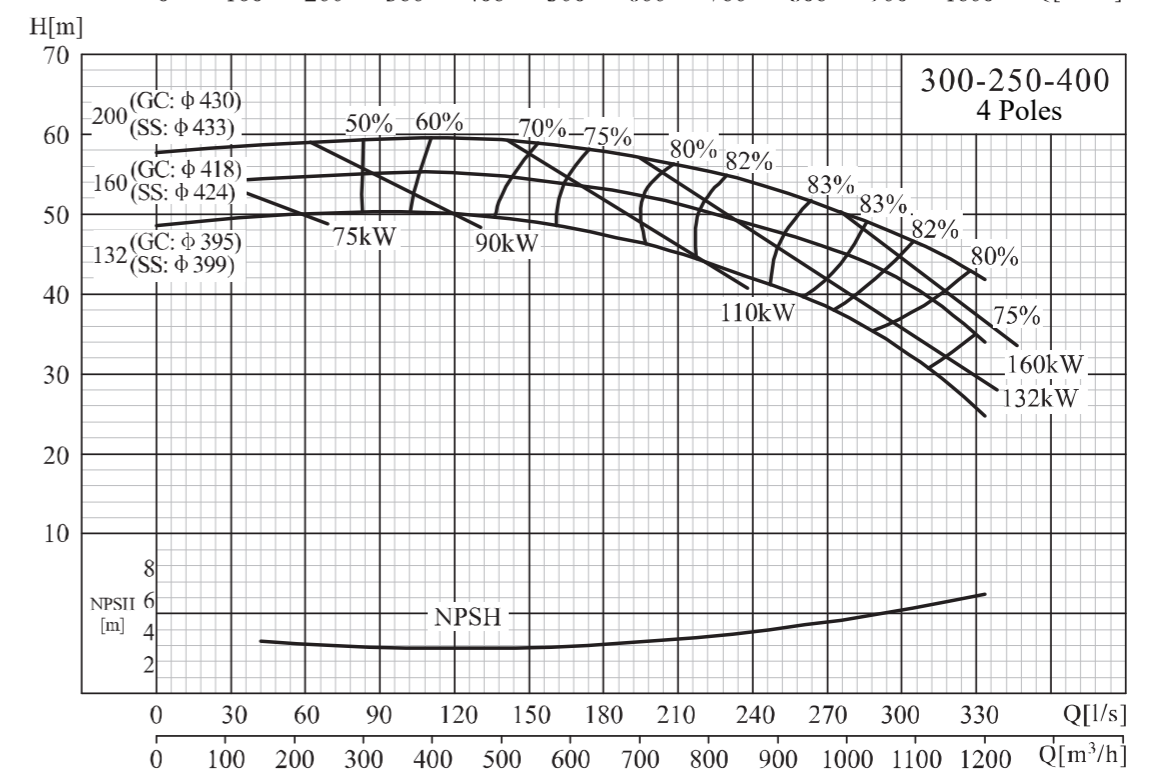
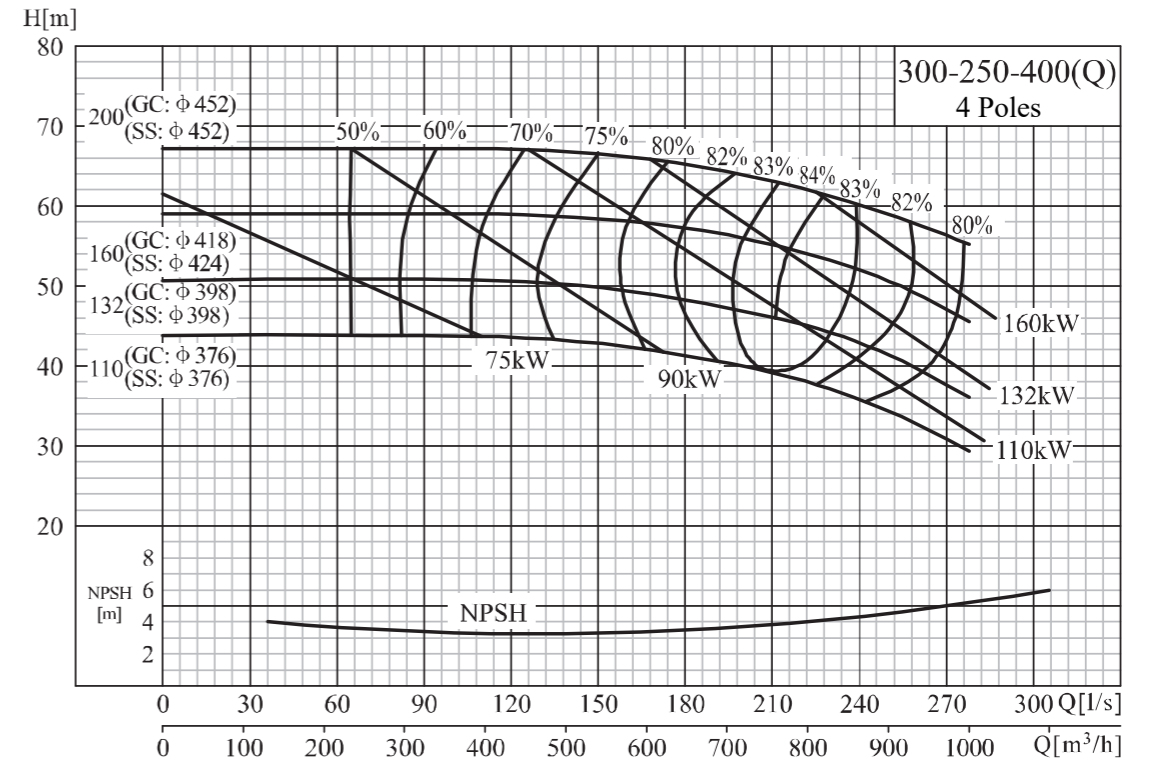
Performance curve

NISO,NIS,NISF300-250-315(Q)/300-250-315



Performance curve

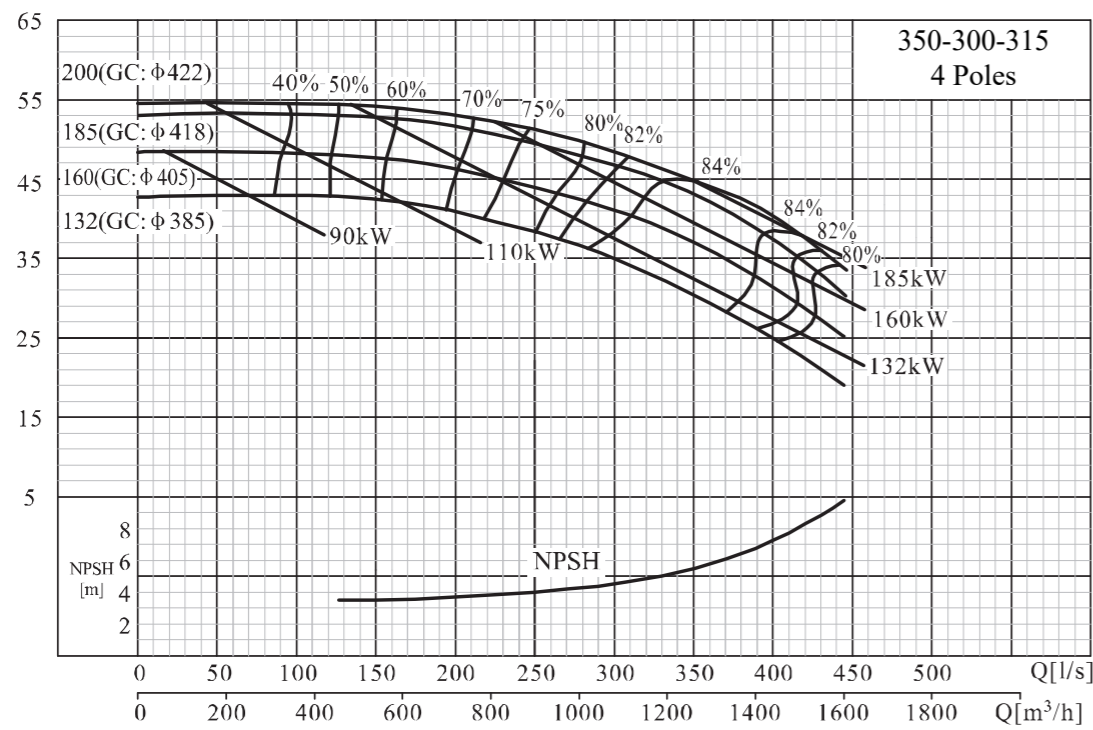
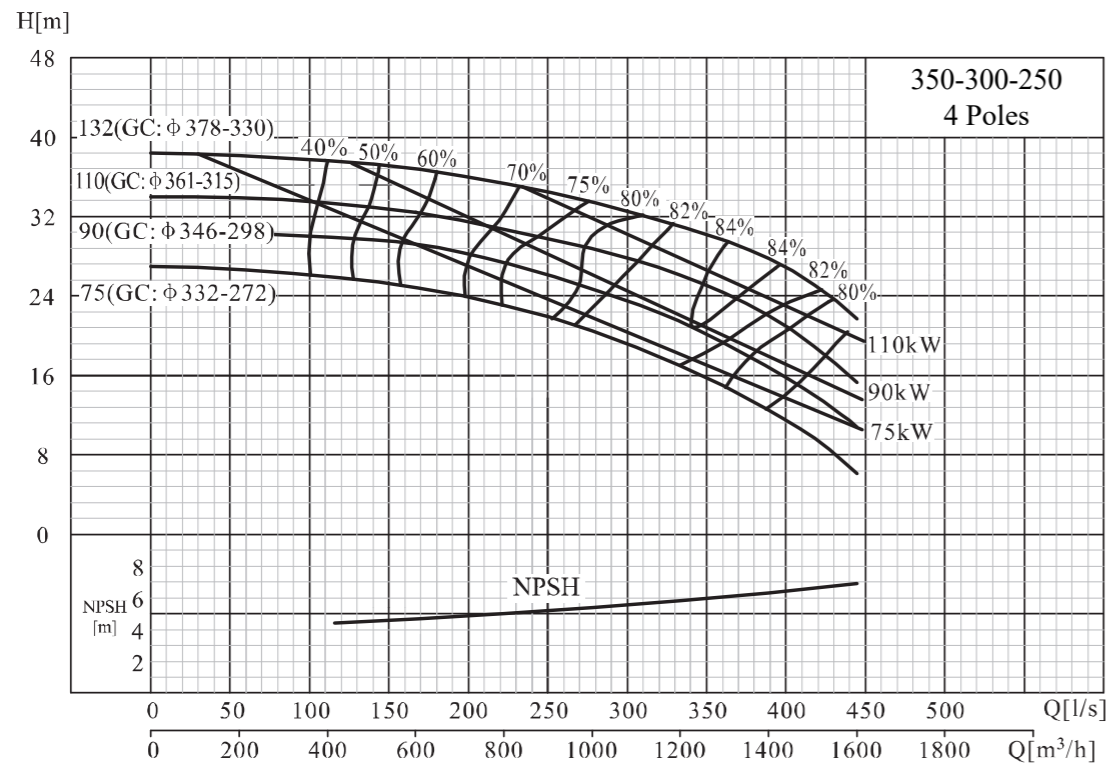
NISO,NIS,NISF 300-250-400(Q)/300-250-400



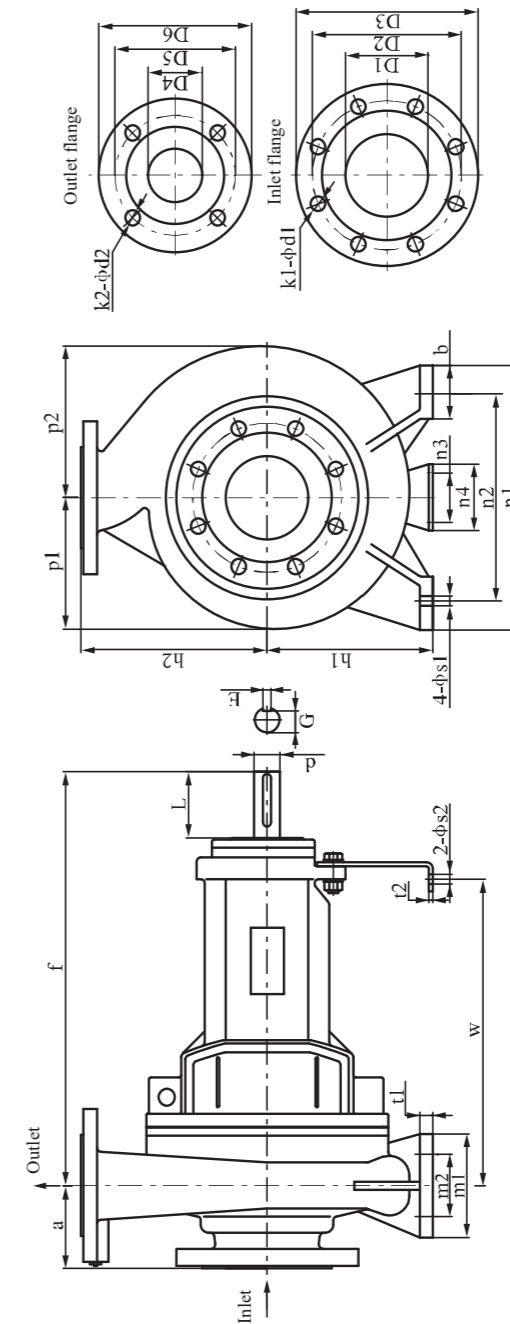


Performance curve

**NISO,NIS,NISF 350-300-250/350-300-315**

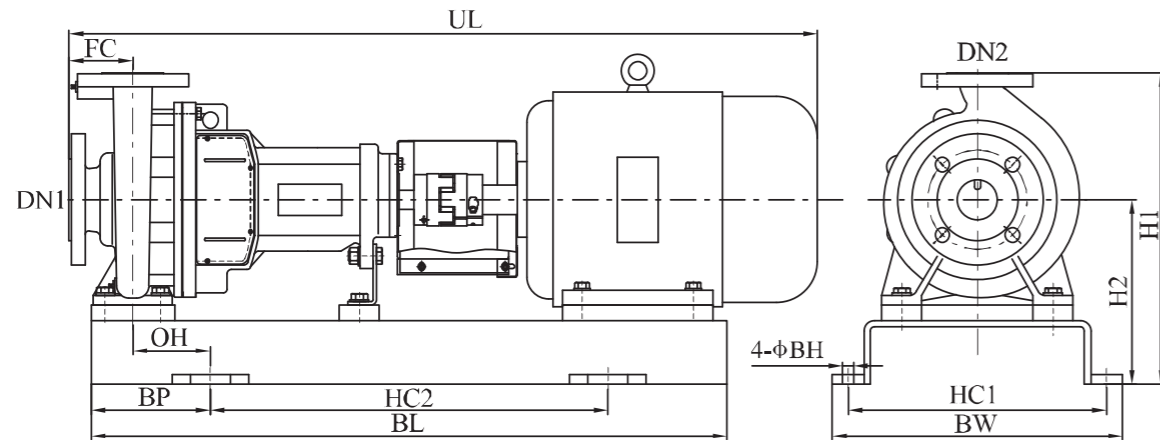


NISO Dimension drawing





NISO Dimension drawing



NISO Dimension table

2 Poles

Model	Power (kW)	H1	H2	HC1	HC2	BW	BL	BP	BH	OH	UL	FC	DN1	DN2	Weight (kg)
50-32-160	3	392	232	296	500	336	750	125	14	72.5	857	80	50	32	95
	4	392	232	296	500	336	750	125	14	72.5	875	80	50	32	109
	5.5	392	232	325	500	365	800	150	14	97.5	941	80	50	32	133
50-32-200	7.5	440	260	340	600	380	860	130	14	77.5	941	80	50	32	146
	11	440	260	380	600	420	950	175	18	121	1077	80	50	32	190
65-40-200	7.5	440	260	325	500	365	800	150	14	97.5	961	100	65	40	145
	11	440	260	380	600	420	950	175	18	121	1097	100	65	40	192
	15	440	260	380	600	420	950	175	18	121	1097	100	65	40	208
65-40-250	18.5	505	280	380	800	420	1080	140	18	73.5	1282	100	65	40	255
	22	505	280	420	800	480	1100	150	18	81.5	1319	100	65	40	291
	30	525	300	460	800	500	1180	190	18	121.5	1379	100	65	40	363
65-40-315	22	550	300	420	800	460	1100	150	18	81.5	1344	125	65	40	307
	30	570	320	455	800	495	1200	200	18	131.5	1412	125	65	40	392
	37	570	320	455	800	495	1200	200	18	131.5	1412	125	65	40	403
65-50-160	4	392	232	296	500	336	750	125	14	72.5	875	80	65	50	112
	5.5	392	232	325	500	365	800	150	14	97.5	941	80	65	50	135
	7.5	392	232	325	500	365	800	150	14	97.5	941	80	65	50	141

NISO Dimension table

2 Poles

Model	Power (kW)	H1	H2	HC1	HC2	BW	BL	BP	BH	OH	UL	FC	DN1	DN2	Weight (kg)
80-50-200	11	460	260	380	600	420	950	175	18	121	1097	100	80	50	194
	15	460	260	380	600	420	950	175	18	121	1097	100	80	50	210
	18.5	460	260	380	600	420	950	175	18	121	1137	100	80	50	222
	22	480	280	420	700	460	1000	150	18	96	1194	100	80	50	268
80-50-250	30	525	300	460	800	500	1180	190	18	121.5	1404	125	80	50	367
	37	525	300	460	800	495	1180	190	18	121.5	1404	125	80	50	377
80-50-315	37	625	345	455	800	495	1200	200	18	131.5	1402	125	80	50	410
	45	625	345	510	800	560	1250	225	22	155	1466	125	80	50	451
	55	650	370	575	900	625	1300	200	22	130	1547	125	80	50	573
	75	680	400	620	800	670	1400	300	22	230	1620	125	80	50	703
80-65-160	5.5	440	260	325	500	365	800	150	14	97.5	961	100	80	65	139
	7.5	440	260	325	500	365	800	150	14	97.5	961	100	80	65	144
	11	440	260	380	600	420	950	175	18	121	1097	100	80	65	191
	15	440	260	380	600	420	950	175	18	121	1097	100	80	65	206
100-65-200	18.5	505	280	380	800	420	1080	140	18	73.5	1282	100	100	65	254
	22	505	280	420	800	460	1100	150	18	81.5	1319	100	100	65	290
	30	525	300	460	800	500	1180	190	18	121.5	1379	100	100	65	362
	37	525	300	460	800	500	1180	190	18	121.5	1379	100	100	65	372
100-65-250	45	590	340	510	800	560	1250	225	22	141.5	1466	125	100	65	444
	55	620	370	575	900	625	1350	225	22	141.5	1547	125	100	65	576
100-65-315	75	650	400	620	800	670	1400	300	22	214	1620	125	100	65	695
	90	680	400	620	900	670	1450	275	22	189	1700	125	100	65	771
100-80-160	110	720	440	710	1000	760	1500	250	22	164	1909	125	100	65	1278
	11	460	260	380	800	420	1080	140	18	73.5	1212	100	100	80	221
125-100-200	15	460	260	380	800	420	1080	140	18	73.5	1212	100	100	80	237
	18.5	460	260	380	800	420	1080	140	18	73.5	1282	100	100	80	253
	22	480	280	420	800	460	1100	150	18	83.5	1319	100	100	80	293
	30	600	320	455	800	495	1200	200	18	119	1412	125	125	100	390
125-100-200	37	600	320	455	800	495	1200	200	18	119	1412	125	125	100	400
	45	620	340	510	800	560	1250	225	22	141.5	1466	125	125	100	449
	55	650	370	575	900	625	1350	225	22	141.5	1547	125	125	100	580
	75	680	400	620	800	670	1400	300	22	214	1620	125	125	100	699



NISO Dimension table

4 Poles

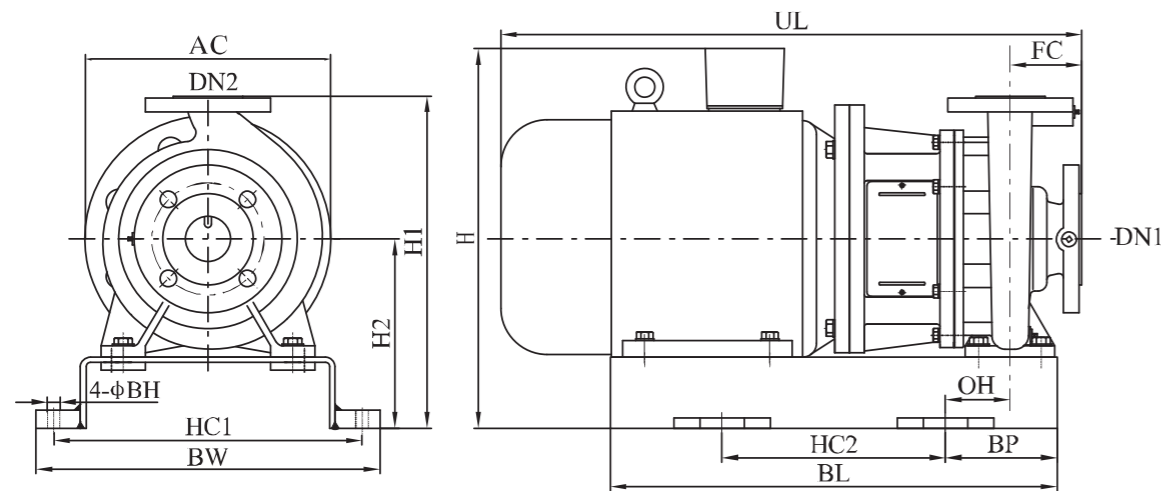
Model	Power (kW)	H1	H2	HC1	HC2	BW	BL	BP	BH	OH	UL	FC	DN1	DN2	Weight (kg)
150-125-315	30	735	380	570	800	620	1220	210	22	110	1447	140	150	125	483
	37	755	400	575	900	625	1300	200	22	100	1496	140	150	125	559
150-125-400	45	835	435	575	900	625	1300	200	22	100	1531	140	150	125	607
	55	835	435	575	900	625	1350	225	22	125	1592	140	150	125	709
	75	835	435	620	800	670	1400	300	22	200	1665	140	150	125	844
200-150-315	37	835	435	620	800	670	1400	300	22	200	1656	160	200	150	628
	45	835	435	595	900	645	1500	300	22	200	1691	160	200	150	659
	55	835	435	595	900	645	1500	300	22	200	1752	160	200	150	762
	75	835	435	625	1000	675	1600	300	22	200	1835	160	200	150	903
200-150-400	75	885	435	625	1000	675	1600	300	22	200	1835	160	200	150	973
	90	885	435	625	1000	675	1600	300	22	200	1885	160	200	150	1024
	110	885	435	710	1200	760	1700	250	22	150	2124	160	200	150	1467
250-200-315	37	885	435	620	800	670	1400	300	22	200	1676	180	250	200	663
	45	885	435	595	900	645	1500	300	22	200	1711	180	250	200	694
	55	885	435	595	900	645	1500	300	22	200	1772	180	250	200	798
	75	885	435	625	1000	675	1600	300	22	200	1855	180	250	200	943
250-200-400	90	950	500	625	1000	675	1600	300	22	200	1905	180	250	200	1075
	110	950	500	710	1200	760	1700	250	22	150	2144	180	250	200	1524
	132	950	500	710	1200	760	1750	275	22	175	2244	180	250	200	1606
	160	950	500	710	1200	760	1750	275	22	175	2244	180	250	200	1710
300-250-315(Q)	75	950	495	800	1150	850	1700	275	22	125	1933	225	300	250	1525
	90	950	495	800	1150	850	1700	275	22	125	1983	225	300	250	1603
	110	950	495	800	1250	850	1800	275	22	125	2228	225	300	250	1931
300-250-400(Q)	110	1045	545	800	1250	850	1800	275	22	125	2206	225	300	250	1980
	132	1045	545	800	1330	850	1880	275	22	125	2236	225	300	250	2085
	160	1045	545	800	1330	850	1880	275	22	125	2236	225	300	250	2145
	200	1045	545	800	1330	850	1880	275	22	125	2236	225	300	250	2260
300-250-315	75	950	495	800	1150	850	1700	275	22	125	1933	225	300	250	1525
	90	950	495	800	1150	850	1700	275	22	125	1983	225	300	250	1603
	110	950	495	800	1250	850	1800	275	22	125	2228	225	300	250	1931

NISO Dimension table

4 Poles

Model	Power (kW)	H1	H2	HC1	HC2	BW	BL	BP	BH	OH	UL	FC	DN1	DN2	Weight (kg)
300-250-400	132	1045	545	800	1330	850	1880	275	22	125	2236	225	300	250	2085
	160	1045	545	800	1330	850	1880	275	22	125	2236	225	300	250	2145
	200	1045	545	800	1330	850	1880	275	22	125	2236	225	300	250	2260

NIS,NISF Dimension drawing



NIS,NISF Dimension table

2 Poles

Model	Power (kW)	H	H1	H2	HC1	HC2	BW	BL	BP	BH	OH	UL	FC	DN1	DN2	Weight (kg)
50-32-160	3	382	372	212	306	250	336	450	100	14	47.5	563	80	50	32	75
	4	400	372	212	306	250	336	450	100	14	47.5	578	80	50	32	81
	5.5	425	372	212	335	300	365	540	100	14	47.5	650	80	50	32	105
50-32-200	7.5	453	420	240	350	300	380	540	100	14	46	650	80	50	32	120
	11	500	420	240	390	350	420	600	125	18	71	787	80	50	32	175
65-40-200	7.5	453	420	240	335	300	365	540	100	14	47.5	670	100	65	40	120
	11	500	420	240	390	350	420	600	125	18	71	807	100	65	40	177
65-40-250	18.5	520	485	260	390	400	420	660	130	18	63.5	865	100	65	40	222
	22	535	485	260	430	400	460	700	150	18	81.5	895	100	65	40	257
65-40-315	30	585	505	280	470	450	500	750	150	18	81.5	967	100	65	40	318
	37	585	530	280	465	500	495	800	150	18	81.5	992	125	65	40	359
	45	640	555	305	520	500	560	820	160	22	90	1042	125	65	40	428
65-50-160	4	400	372	212	306	250	336	450	100	14	47.5	578	80	65	50	83
	5.5	425	372	212	335	300	365	500	100	14	47.5	650	80	65	50	107
	7.5	425	372	212	335	300	365	500	100	14	47.5	650	80	65	50	110

NIS,NISF Dimension table

2 Poles

Model	Power (kW)	H	H1	H2	HC1	HC2	BW	BL	BP	BH	OH	UL	FC	DN1	DN2	Weight (kg)
80-50-200	11	500	440	240	390	350	420	600	125	18	71	807	100	80	50	181
	15	500	440	240	390	350	420	600	125	18	71	807	100	80	50	191
	18.5	500	440	240	390	400	420	660	130	18	76	862	100	80	50	211
	22	535	460	260	430	400	460	700	150	18	96	892	100	80	50	254
80-50-250	30	585	505	280	470	450	500	750	150	18	81.5	992	125	80	50	320
	37	585	505	280	470	450	500	750	150	18	81.5	992	125	80	50	339
80-50-315	37	610	585	305	465	500	495	800	150	18	81.5	992	125	80	50	370
	45	640	585	305	520	500	560	820	160	22	90	1042	125	80	50	434
	55	715	630	350	585	550	625	950	200	22	130	1156	125	80	50	534
	75	780	660	380	630	600	670	1000	200	22	130	1231	125	80	50	675
80-65-160	5.5	453	420	240	335	300	365	500	100	14	47.5	670	100	80	65	115
	7.5	453	420	240	335	300	365	500	100	14	47.5	670	100	80	65	118
	11	500	420	240	390	350	420	600	125	18	71	807	100	80	65	175
	15	500	420	240	390	350	420	600	125	18	71	807	100	80	65	185
100-65-200	18.5	520	485	260	390	400	420	660	130	18	63.5	865	100	100	65	222
	22	535	485	260	430	400	460	700	150	18	81.5	895	100	100	65	257
	30	585	505	280	470	450	500	750	150	18	81.5	967	100	100	65	318
	37	585	505	280	470	450	500	750	150	18	81.5	967	100	100	65	337
100-65-250	45	640	555	305	520	500	560	820	160	22	76.5	1042	125	100	65	426
	55	715	600	350	585	550	625	950	200	22	116.5	1156	125	100	65	529
100-65-315	75	780	630	380	630	600	670	1000	200	22	114	1231	125	100	65	673
	90	780	660	380	630	600	670	1100	250	22	164	1295	125	100	65	730
100-65-315	110	945	695	415	720	600	760	1100	250	22	164	1530	125	100	65	1161
	11	515	440	240	390	400	420	660	130	18	61.5	810	100	100	80	177
100-80-160	15	515	440	240	390	400	420	660	130	18	61.5	810	100	100	80	187
	18.5	515	440	240	390	400	420	660	130	18	61.5	865	100	100	80	207
	22	535	460	260	430	400	460	700	150	18	83.5	895	100	100	80	248
	30	585	560	280	465	500	495	800	150	18	69	992	125	125	100	349
125-100-200	37	585	560	280	465	500	495	800	150	18	69	992	125	125	100	368
	45	640	585	305	520	500	560	820	160	22	76.5	1042	125	125	100	431
	55	715	630	350	585	550	625	950	200	22	116.5	1156	125	125	100	534
	75	780	660	380	630	600	670	1000	200	22	114	1231	125	125	100	678



NIS,NISF Dimension table

4 Poles

Model	Power (kW)	H	H1	H2	HC1	HC2	BW	BL	BP	BH	OH	UL	FC	DN1	DN2	Weight (kg)
150-125-315	30	665	715	360	580	500	620	800	150	22	50	1028	140	150	125	430
	37	715	735	380	585	550	625	950	200	22	100	1071	140	150	125	507
150-125-400	45	750	815	415	585	550	625	950	200	22	100	1103	140	150	125	561
	55	780	815	415	585	550	625	950	200	22	100	1187	140	150	125	620
	75	815	815	415	630	600	670	1000	200	22	100	1262	140	150	125	776
200-150-315	37	750	815	415	605	500	645	900	200	22	100	1116	160	200	150	541
	45	750	815	415	605	500	645	900	200	22	100	1146	160	200	150	579
	55	780	815	415	605	600	645	1000	200	22	100	1254	160	200	150	650
	75	815	815	415	630	600	675	1100	250	22	150	1329	160	200	150	806
200-150-400	75	815	865	415	630	600	675	1100	250	22	150	1329	160	200	150	859
	90	815	865	415	630	600	675	1100	250	22	150	1379	160	200	150	956
	110	945	865	415	720	700	760	1220	260	22	160	1614	160	200	150	1325
250-200-250*	22	690	865	415	605	500	645	900	200	22	85	1060	180	250	200	483
	30	720	865	415	605	500	645	900	200	22	85	1114	180	250	200	580
	37	750	865	415	605	600	645	1000	200	22	90	1145	180	250	200	642
	45	750	865	415	605	600	645	1000	200	22	90	1170	180	250	200	680
250-200-315	37	750	865	415	605	500	670	900	200	22	100	1136	180	250	200	592
	45	750	865	415	605	500	645	900	200	22	100	1166	180	250	200	630
	55	780	865	415	605	600	645	1100	250	22	150	1274	180	250	200	695
	75	815	865	415	630	600	670	1100	250	22	150	1349	180	250	200	840
250-200-400	90	845	930	480	630	600	675	1100	250	22	150	1399	180	250	200	1015
	110	1010	930	480	720	750	760	1250	250	22	150	1634	180	250	200	1400
	132	1010	930	480	720	700	760	1220	260	22	160	1744	180	250	200	1495
	160	1010	930	480	720	700	760	1220	260	22	160	1744	180	250	200	1564
300-250-250*	45	835	980	500	810	570	850	970	200	22	40	1221	235	300	250	780
	55	865	980	500	810	640	850	1140	250	22	90	1316	235	300	250	845
	75	900	980	500	810	640	850	1140	250	22	90	1376	235	300	250	1170
300-250-250(Q)*	37	835	980	500	810	570	850	970	200	22	40	1196	235	300	250	742
	45	835	980	500	810	570	850	970	200	22	40	1221	235	300	250	780
	55	865	980	500	810	640	850	1140	250	22	90	1316	235	300	250	845
300-250-315(Q)	75	930	930	475	810	750	850	1250	250	22	90	1356	225	300	250	1120
	90	930	930	475	810	750	850	1250	250	22	90	1406	225	300	250	1182
	110	1005	930	475	810	750	850	1250	250	22	90	1743	225	300	250	1518
300-250-400(Q)	110	1055	1025	525	810	750	850	1250	250	22	90	1611	225	300	250	1582
	132	1055	1025	525	810	900	850	1400	250	22	90	1721	225	300	250	1676

NIS,NISF Dimension table

4 Poles

Model	Power (kW)	H	H1	H2	HC1	HC2	BW	BL	BP	BH	OH	UL	FC	DN1	DN2	Weight (kg)
300-250-400(Q)	160	1055	1025	525	810	900	850	1400	250	22	90	1721	225	300	250	1777
	200	1055	1025	525	810	900	850	1400	250	22	90	1721	225	300	250	1853
300-250-315	75	930	930	475	810	750	850	1250	250	22	90	1356	225	300	250	1120
	90	930	930	475	810	750	850	1250	250	22	90	1406	225	300	250	1182
	110	1005	930	475	810	750	850	1250	250	22	90	1743	225	300	250	1518
300-250-400	132	1055	1025	525	810	900	850	1400	250	22	90	1721	225	300	250	1676
	160	1055	1025	525	810	900	850	1400	250	22	90	1721	225	300	250	1777
	200	1055	1025	525	810	900	850	1400	250	22	90	1721	225	300	250	1853
350-300-250*	75	940	1140	540	910	680	950	1180	250	22	65	1401	250	350	300	1220
	90	940	1140	540	910	680	950	1180	250	22	65	1452	250	350	300	1282
	110	1070	1140	540	910	870	950	1370	250	22	65	1676	250	350	300	1618
	132	1070	1140	540	910	870	950	1370	250	22	65	1786	250	350	300	1775
	132	1070	1140	540	910	870	950	1370	250	22	65	1767	250	350	300	1776
350-300-315*	160	1070	1140	540	910	870	950	1370	250	22	65	1767	250	350	300	1877
	185	1070	1140	540	910	870	950	1370	250	22	65	1767	250	350	300	1953
	200	1070	1140	540	910	870	950	1370	250	22	65	1767	250	350	300	1953

Remark: 1. Flange size of NIS, NISF is same as NISO.  
2. Model with \* is only for NIS series.