



2018
GENERAL CATALOGO



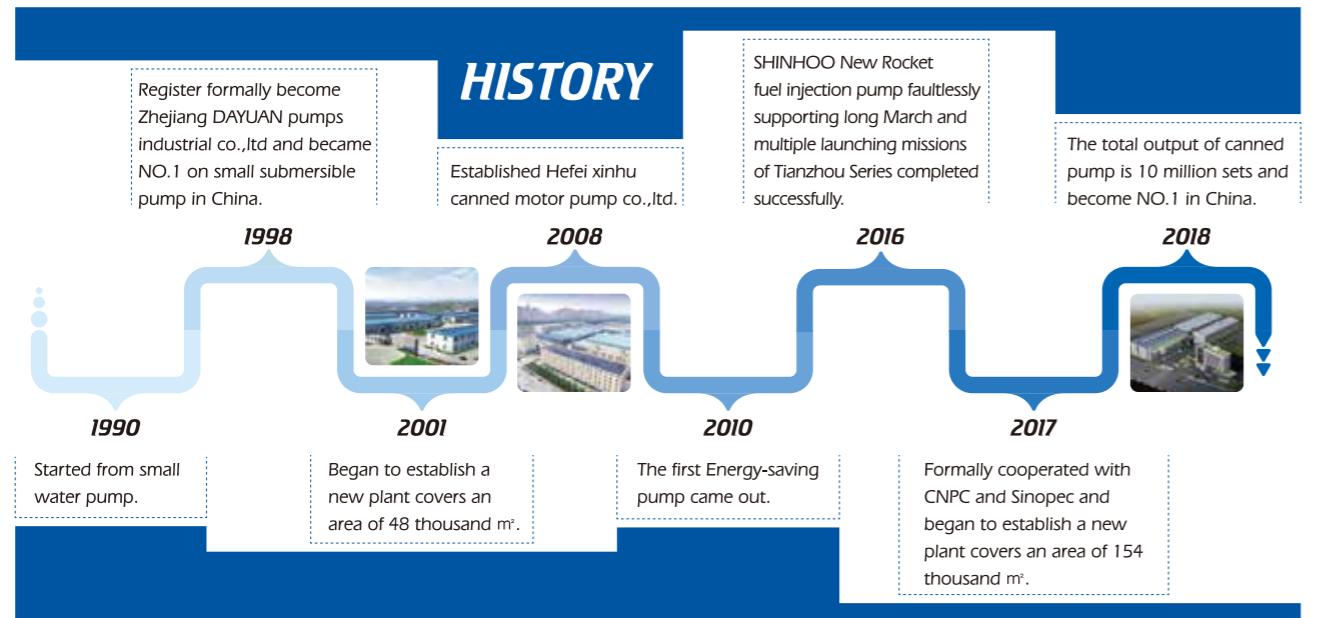
ZHEJIANG DAYUAN PUMPS INDUSTRIAL CO.,LTD

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ZHEJIANG DAYUAN PUMPS INDUSTRIAL CO., LTD

HISTORY:

21-year professional manufacturer of water pumus.

SCALE: Covering a more than 168,000 square meters workingarea;have more than 730 employees.

TECHNOLOGY: Having 5 highly developed automatic assembling lines,30 experienced and professional engineering experts.

MANAGEMENT&QC: Unique 3 steps tests,including motor test,pump test and overall unit test to guarantee the quality.

EQUIPMENT: 5 advanced flow line production and an Online Self-measurement System.40 national patents.

PRODUCTION CAPACITY: 1,600,000 PCS/year.

MARKETING NETWORK: Covering more than 50 countries and areas around the world.

CERTIFICATES: Having apparently obtained 59 renowned international safety verifications from CE,GS,ROHS,KS,etc.



Hefei Xinhu Canned Motor Pump Co., Ltd

Hefei Xinhu Canned Motor Pump Co., Ltd. is a large-scale modern production base invested and built by Shanghai Xinhu Electric Machine Co., Ltd. The Manufacturing Capability of a variety of products is around 1 million pcs annually.

Shanghai Xinhu Electric Machine Co., Ltd. was once called State-run Shanghai XINHU Electric Machine Company which was founded in 1956 as the earliest large enterprise specialized in the production of canned motor and canned pumps in China. For more than 50 years Xinhu determined to be committed to product research and development and quality promotion with industry and customer requirements as the orientation. Our products are now sold abroad to many regions and countries in Europe, America and Asia, and widely used in many areas such as chemical industry, petrification, petroleum refining, textile industry, locomotive, central air-conditioning, aerospace, military industry, nuclear power, air conditioning system cooling, heating circulating water supply, construction, environmental protection, ventilation and new energy. With outstanding quality and perfect after-sale service, Xinhu has gained a high reputation in the market. In order to satisfy the rising demand, in 2007 Shanghai Xinhu constructed a modern plant covering an area of 100 thousand square meters in National Hi-tech Developing Zone in Hefei, Anhui province, with a total investment of 300 million Yuan and the new plant has started running since 2009. While importing internationally advanced managerial experience and kinds of first-rate manufacturing and testing equipments, we have also introduced a large number of senior experts in every field such as hydromechanics, machinery, electrical machine, control, material, and technology to take advantage of advanced computer technology and make scientific and technical innovation constantly. All these have constituted the core competence of Xinhu. Based on the standard of ISO9001: 2008 Quality management system, Xinhu has set up a complete set of design, producing, service and marketing system and has obtained a number of certifications such as ISO9001: 2008 Quality Management System Certification, ISO14000:2004 Environment Management System Certification, GS certificate, UL certificate, CE certificate, CCC certificate for national compulsory products and RoHS certificate, all of which have ensured the stability, reliability, durability and high efficiency of our products.

We have 25 series of canned motor pump with thousands of specifications: H series for chemical industry, NP series for absorption air condition, GPD series for pipeline, CP series for sanitary bath equipment, GP series for cold and hot water circulation pipeline, special pumps for military industry, such as military naval vessel and so on. With advanced technology, equipments, crafts, testing methods and management



DV/DVS/DVL

STAINLESS STEEL VERTICAL MULTISTAGE PUMP



ZHEJIANG DAYUAN PUMPS INDUSTRIAL CO.,LTD

DVS MULTISTAGE VERTICAL CENTRIFUGAL PUMP

DV/DVS/DVL series vertical centrifugal pumps are suitable for conveying low viscosity, non-flammable and explosive vaporized liquids without solid particles and fibers: widely used in high-rise buildings for water supply and drainage, water plant filtration and transportation, pipeline pressurization, etc.; washing and cleaning systems, etc. Boiler feed water, cooling water circulation, water treatment system and other equipment supporting system; Ultrafiltration system, reverse osmosis system, distillation system, separator, swimming pool and other water treatment environment; Food and Beverage and Fire Protection system.

MOTOR

- Fully enclosed standard air-cooled two-stage standard motor
 - levels of protection: IP55
 - Insulation grade: F

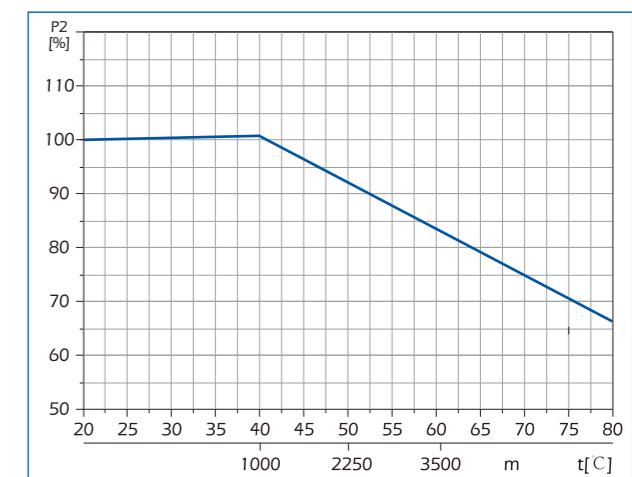
OPERATING ENVIRONMENT

The highest operating temperature of the pumps is +40°C. If the pumps are used at a temperature above +40 °C, or their motors are installed at an altitude higher than 1000m, the output power of the motors will drop. See the figure below. In this circumstance, motors with larger output power are needed.

OPERATIONAL CONDITION

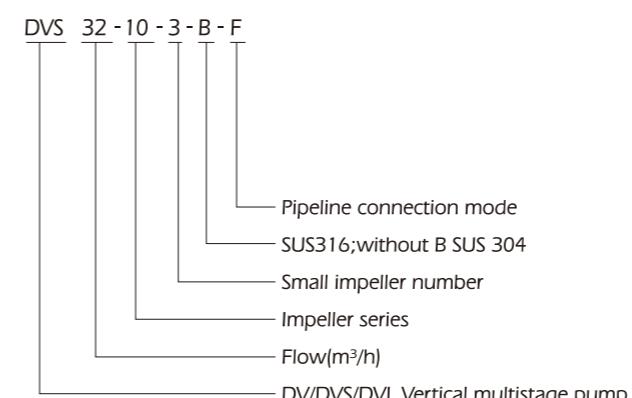
Low viscosity, non-flammable, non-explosive, Easily vaporized liquid containing neither solid particles nor fibers , the liquid must not have chemical reaction on the pump material, when the density and viscosity of the conveying liquid is greater than water, need to use high-power motor.

- Liquid temperature: -15 C to +120 C
 - Flow range: 0.4 to 110m3/h
 - Dielectric ph: 3-9
 - Maximum ambient temperature: +40 C
 - Peak working pressure (PWP): 33bar
 - Highest altitude: 1000m



As shown above, When the pump is installed above 3500 meters above sea level, P2 is expected to drop to around 88%; when the ambient temperature reaches 70 C, P2 will drop to about 78%.

GENERAL DATE



DVS/DVL: The flow passing components are all stainless steel material.
DV: pump casing,pump cover are Cast iron.
F: DIN flange; A: Elliptical flange; K: Clamp connection; G: threaded connection.

MINIMUM INLET PRESSURE-NPSH

Calculation of the inlet pressure "H" is recommended in these situations:

The liquid temperature is high

The flow is significantly higher than the rated flow.

Water is drawn from depths

Water is drawn through long pipes

Inlet conditions are poor

To avoid cavitation, make sure that there is a minimum pressure on the suction side of the pump. The maximum suction lift "H" in meters head can be calculated as follows:

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

P_b = Barometric pressure in bar. (Barometric pressure can be set to 1 bar). In closed systems, P_b indicates the system pressure in bar.

NPSH = Net Positive Suction Head in meters head. (To be read from the NPSH curve at the highest flow the pump will be delivering.)

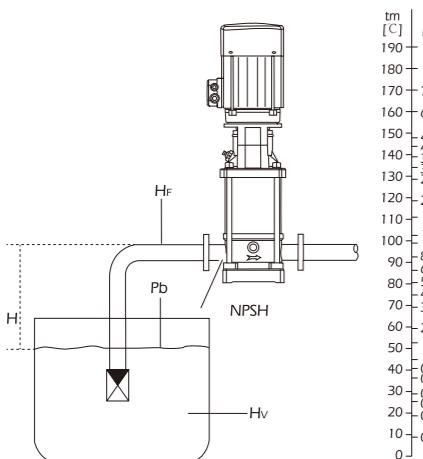
H_f = Friction loss in suction pipe in meters head. (At the highest flow the pump will be delivering.)

H_w = Vapor pressure in meters head. (To be read from the vapor pressure scale. " H_w " depends on the liquid temperature "tm")

H_s = Safety margin = minimum 0.5 meters head.

If the "H" calculated is positive, the pump can operate at a suction lift of maximum "H" meters head.

If the "H" calculated is negative, an inlet pressure of minimum "H" meters head is required.



Note: To avoid cavitation, never select a pump with a duty point too far to the right on the NPSH curve. Always check the NPSH value of the pump at the highest possible flow.

MAXIMUM INLET PRESSURE

The following table shows the maximum permissible inlet pressure. However, the current inlet pressure + the pressure against a closed valve must always be lower than the Max. permissible operating pressure. If the maximum permissible operating pressure is exceeded, the bearing in the motor may be damaged and the life of the shaft seal reduced.

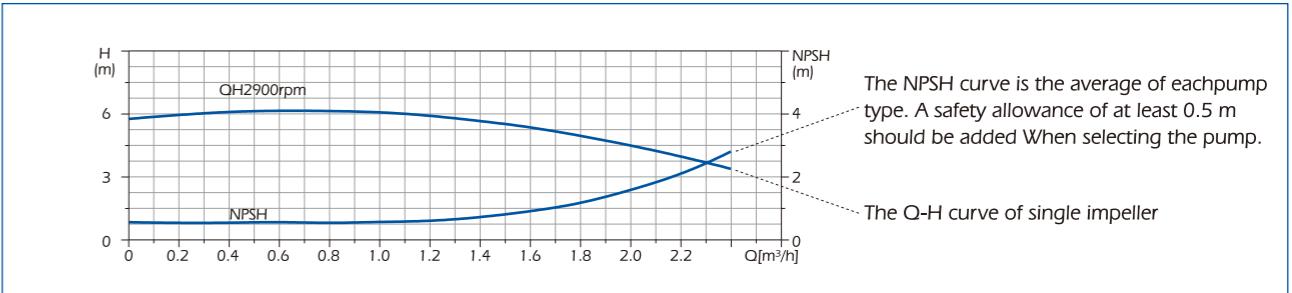
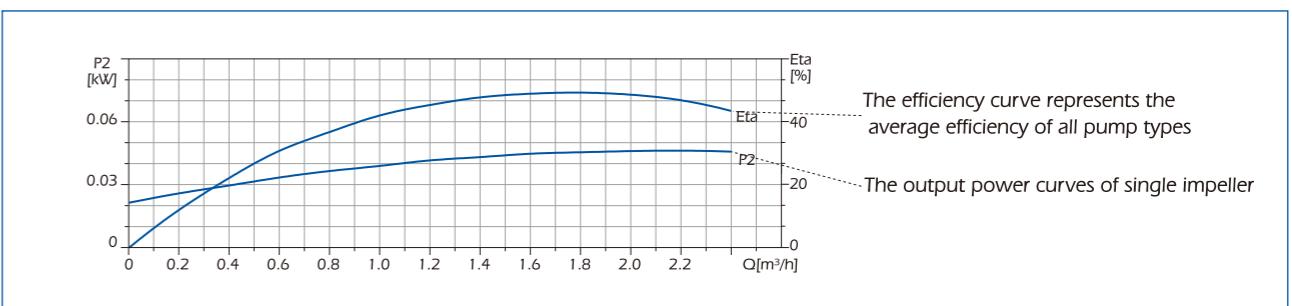
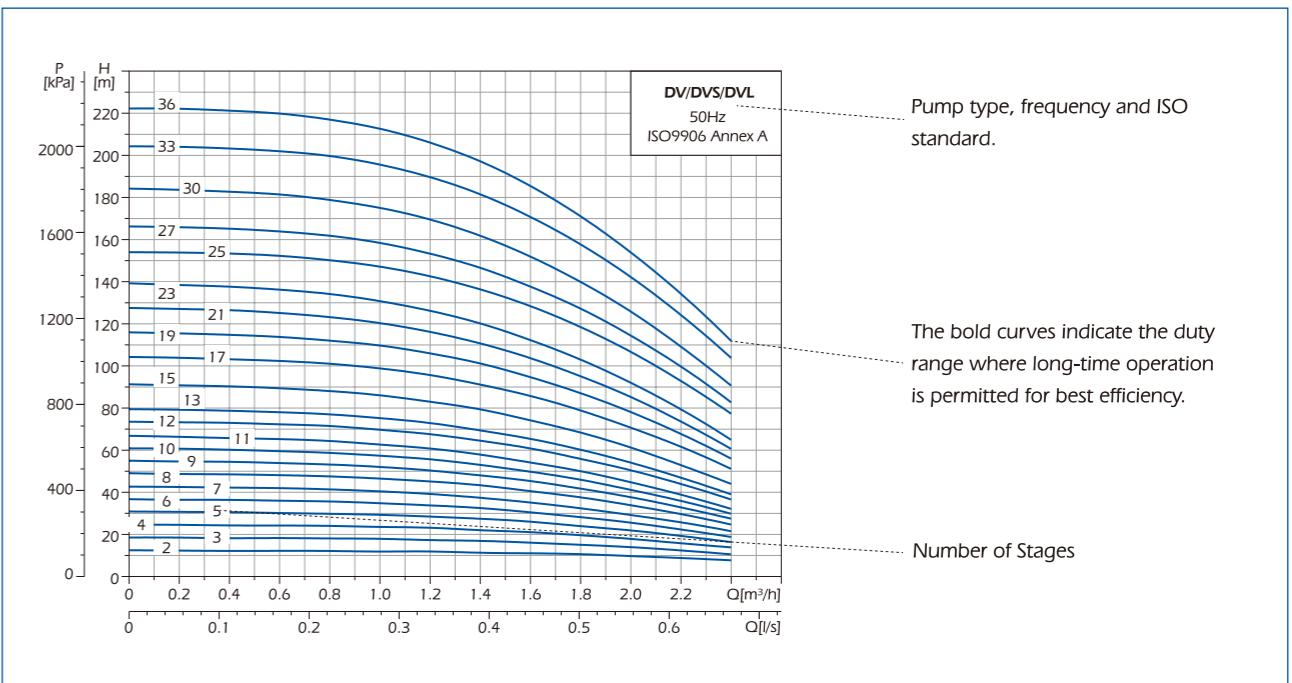
Model	Maximum inlet pressure(bar)
DV1/DVS1/DVL1	
1-2→1-36	10
DV2/DVS2/DVL2	
2-2	6
2-3→2-12	10
2-13→2-26	15
DV3/DVS3/DVL3	
3-2→3-29	10
3-31→3-26	15
DV4/DVS4/DVL4	
4-2	6
4-3→4-11	10
4-12→4-22	15
DV5/DVS5/DVL5	
5-2→5-16	10
5-18→5-29	15
DV15/DVS15/DVL15	
15-1→15-8	8
15-4→15-17	10
DV10/DVS10/DVL10	
10-1→10-6	8
10-7→10-22	10
DV20/DVS20/DVL20	
20-1→20-3	8
20-4→20-17	10
DV32/DVS32	
32-1-1→32-4	4
32-5-2→32-10	10
32-11V32-14	15
DV45/DVS45	
45-1-1→45-2	4
45-3-2→45-5	10
45-6-2→45-13-2	15
DV64/DVS64	
64-1-1→64-2-2	4
64-2-1→64-4-2	10
64-4-1→64-8-1	15
DV90/DVS90	
90-1-1→90-1	4
90-2-2→90-3-2	10
90-3→90-6	15

GUIDELINES TO PERFORMANCE CURVES

Tolerances to ISO 9006, Annex A.

Measurements have been made with airless water at a temperature of 20 °C and kinematic viscosity of 1 mm²/s.

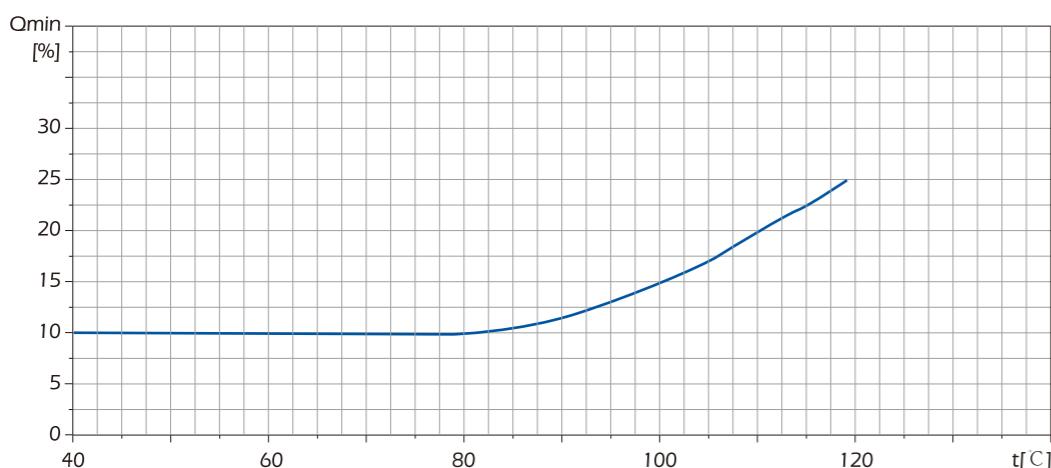
To avoid overheating of the motor, the pump should not be used against a high head for a long time.



MINIMUM FLOW RATE

Due to the risk of overheating, the pump should not be used at a flow below the minimum flow rate. The curve below Shows the minimum flow rate as a percentage of the nominal flow rate in relation to the liquid temperature.

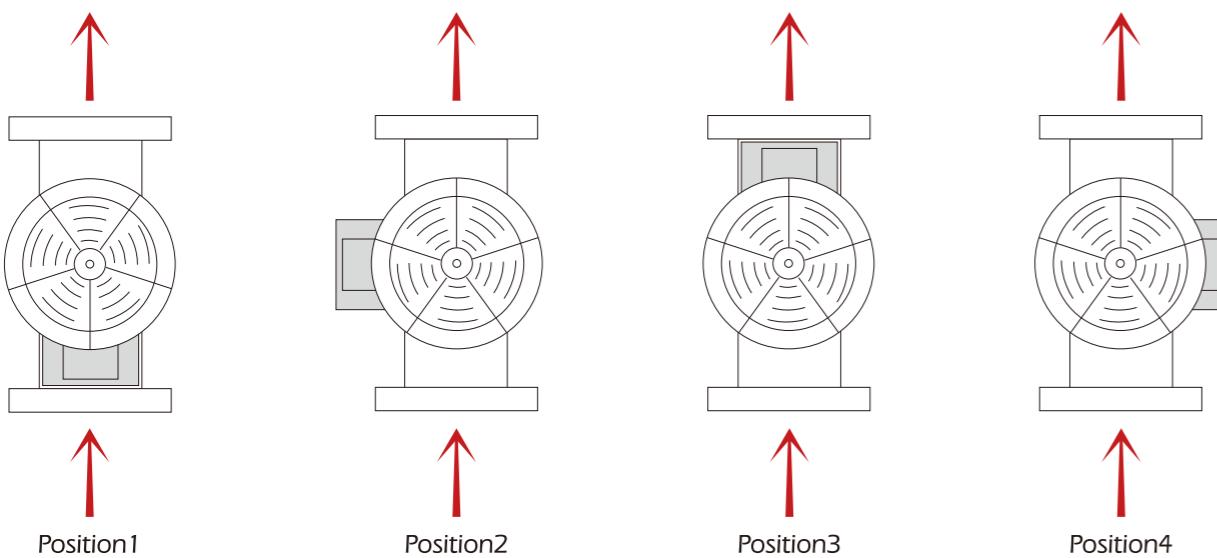
Air cooling apparatus



Note: The outlet valve must be opened when the pump is in operation.

TERMINAL BOX POSITIONS

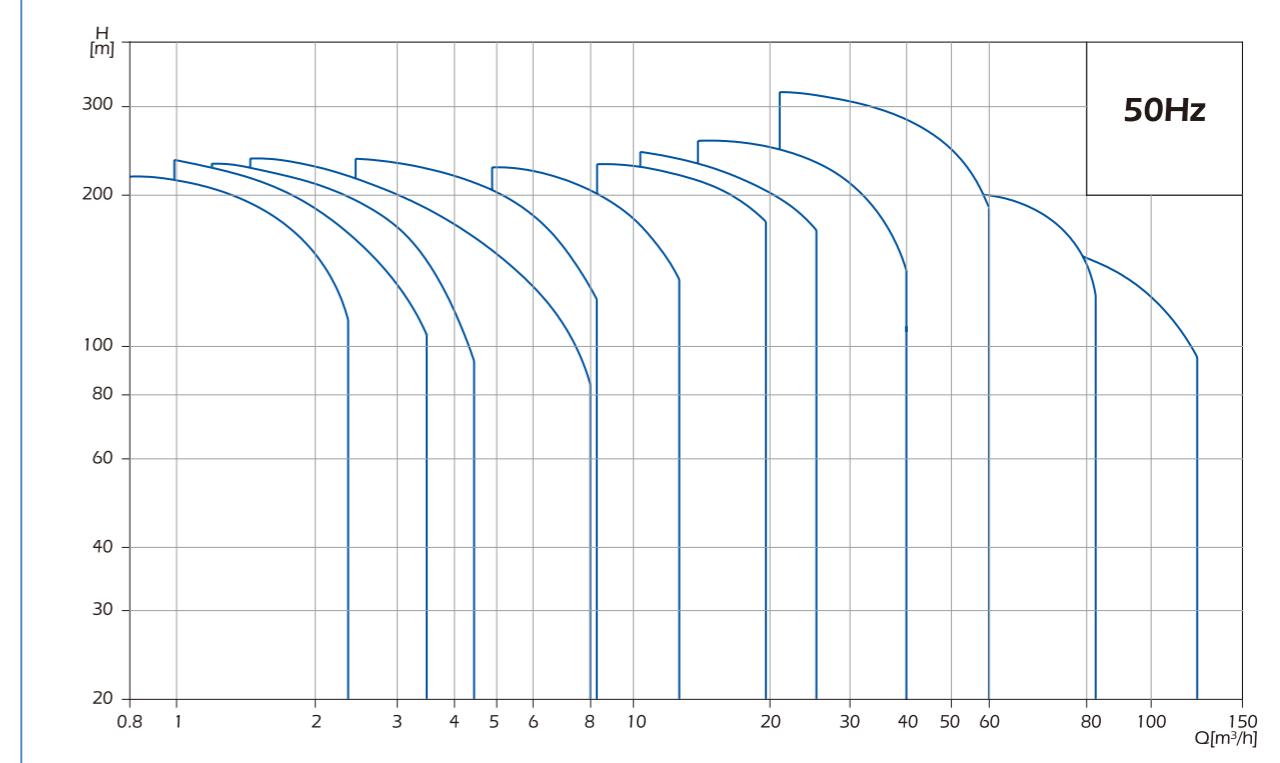
(Note: set to position 1 before delivery)



PRODUCT RANGE

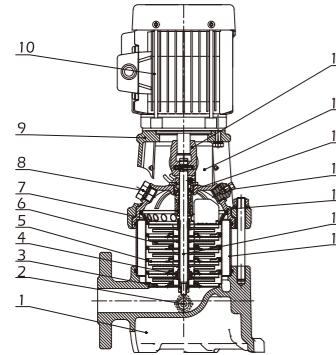
Model	DV1 DVS1 DVL1	DV2 DVS2 DVL2	DV3 DVS3 DVL3	DV4 DVS4 DVL4	DV5 DVS5 DVL5	DV10 DVS10 DVL10	DV15 DVS15 DVL15	DV20 DVS20 DVL20	DV30 DVS32 DVL32	DV45 DVS45 DVL45	DV64 DVS64 DVL64	DV90 DVS90
Rated flow[m³/h]	1	2	3	4	5	10	15	20	32	45	64	90
Flow range[m³/h]	0.7-2.5	0.9-3.4	1.2-4.4	1.6-8.2	2.3-8.4	4.5-12.5	8-23.5	10-29	14-39	23-60	30-86	46-121
Max.pressure[bar]	22	23	24	21	24	22	23	25	28	33	22	20
Motor power[kW]	0.37-2.2	0.37-3	0.37-3	0.37-4	0.37-4	1.1-7.5	1.1-15	1.1-18.5	1.5-30	3-45	4-45	5.5-45
Temperature Range[°C]	-20 °C ~ +120 °C Note: (Both the Max. permissible pressure and liquid temperature range refer to the pump capacity.)											
Max.pump efficiency[%]	45	46	55	59	60	65	70	72	78	79	80	81
Pipe connection-DV												
Oval flange	G1	G1	G1	G1 1/4	G1 1/4	-	-	-	-	-	-	-
DIN flange						DN40	DN50	DN50	DN65	DN80	DN100	DN100
Pipe connection-DVS												
Oval flange	-	-	-	-	-	-	-	-	-	-	-	-
DIN flange	DN32	DN32	DN32	DN32	DN32	DN40	DN50	DN65	DN65	DN80	DN100	DN100
Clamp connector	Φ42	Φ42	Φ42	Φ42	Φ42	-	-	-	-	-	-	-
Threaded connector	G1 1/4	G1 1/4	G1 1/4	G1 1/4	G1 1/4	-	-	-	-	-	-	-

SCOPE OF PERFORMANCE



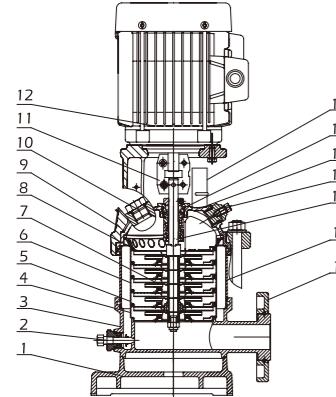
CROSS SECTION

DV1(2.3.4.5)



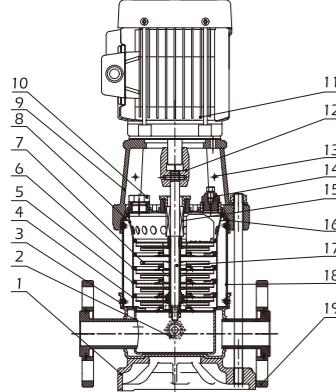
No	Part	Material
1	Base	HT200
2	Discharge bolt assembly	SUS304
3	Primary diffuser	SUS304
4	Diffuser with bearing	SUS304
5	Medium diffuser	SUS304
6	Impeller	SUS304
7	Final volute	SUS304
8	Filling plug	SUS304
9	Motor base	HT200
10	Motor	
11	Half-coupling	Iron-based powder metallurgy
12	Guarding plate	SUS304
13	Cartridge seals	
14	Vent plug assembly	SUS304
15	pump bonnet	HT200
16	Pump shaft	SUS304
17	Pump barrel	SUS304

DVS1(2.3.4.5)



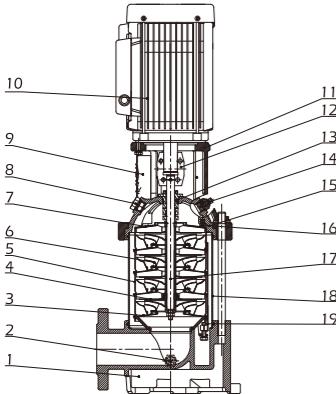
No	Part	Material	Optional Material
1	Base plate	HT200	
2	Discharge plug assembly	AISI304	AISI316
3	Chassis	ZG304	ZG316
4	Primary diffuser	AISI304	AISI316
5	Diffuser with bearing	AISI304	AISI316
6	Medium diffuser	AISI304	AISI316
7	Impeller	AISI304	AISI316
8	Final volute	AISI304	AISI316
9	Motor base	HT200	AISI316
10	Filling plug	AISI304	AISI316
11	Coupling	Iron based powder metallurgy	
12	Motor		
13	Guarding plate	AISI304	
14	Cartridge seal		
15	Pump cover	ZG304	ZG316
16	Vent plug assembly	AISI304	AISI316
17	Pump shaft	AISI304	
18	Pump barrel	AISI304	AISI316
19	Flange	ZG35	

DVL1(2.3.4.5)



No	Part	Material	Optional Material
1	Base plate	HT200	
2	Drainage plug assembly	SUS304	SUS316
3	Pump casing	ZG304	
4	Primary diffuser	SUS304	SUS316
5	Diffuser with bearing	SUS304	SUS316
6	Medium diffuser	SUS304	SUS316
7	Impeller	SUS304	SUS316
8	Final volute	SUS304	SUS316
9	Motor base	HT200	SUS316
10	Filling plug	SUS304	SUS316
11	Motor	Iron-based power metallurgy	
12	Half-coupling		
13	Guarding plate	SUS304	
14	Vent plug assembly	SUS304	SUS316
15	Cartridge seal		
16	Pump cover	SUS304	SUS316
17	Pump shaft	SUS304	SUS316
18	Pump barrel	SUS304	SUS316
19	Flange	QT400-18	

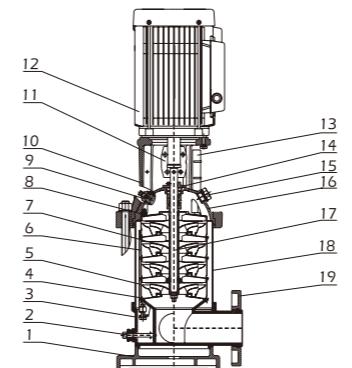
DV10(15.20)



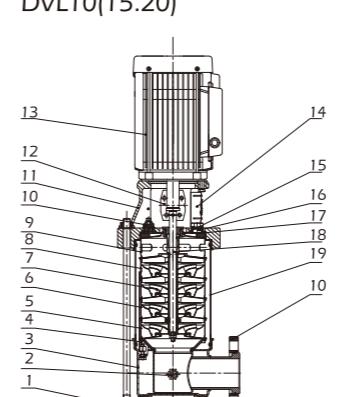
No	Part	Material	Optional Material
1	Base plate	HT200	
2	Drainage plug assembly	SUS304	SUS316
3	Primary diffuser	SUS304	SUS316
4	Diffuser with bearing	SUS304	SUS316
5	Medium diffuser	SUS304	SUS316
6	Impeller	SUS304	SUS316
7	Final volute	SUS304	SUS316
8	Filling plug	SUS304	SUS316
9	Guarding plate	SUS304	
10	Motor	HT200	
11	Motor base	HT200	
12	Half-coupling	Iron-based powder metallurgy	
13	Cartridge seal		
14	Vent plug assembly	SUS304	SUS316
15	Pump cover	HT200	
16	Adjusting pad	EPDM	
17	Pump shaft	SUS304	SUS316
18	Pump barrel	SUS304	SUS316
19	Tension plate	SUS304	SUS316

CROSS SECTION

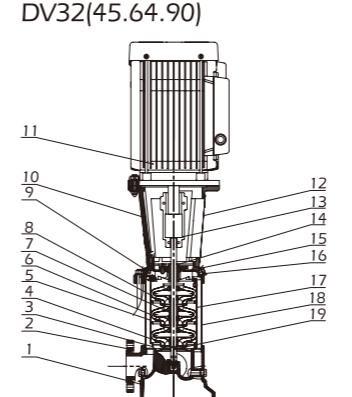
DVS10(15.20)



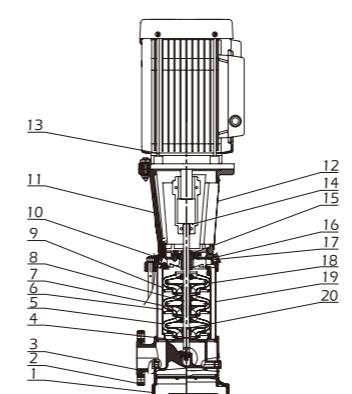
DVL10(15.20)



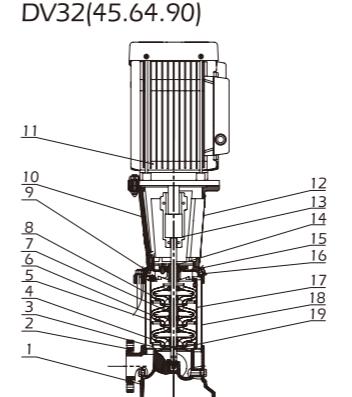
DV32(45.64.90)



DVS32(45.64.90)



DVL32(45.64.90)



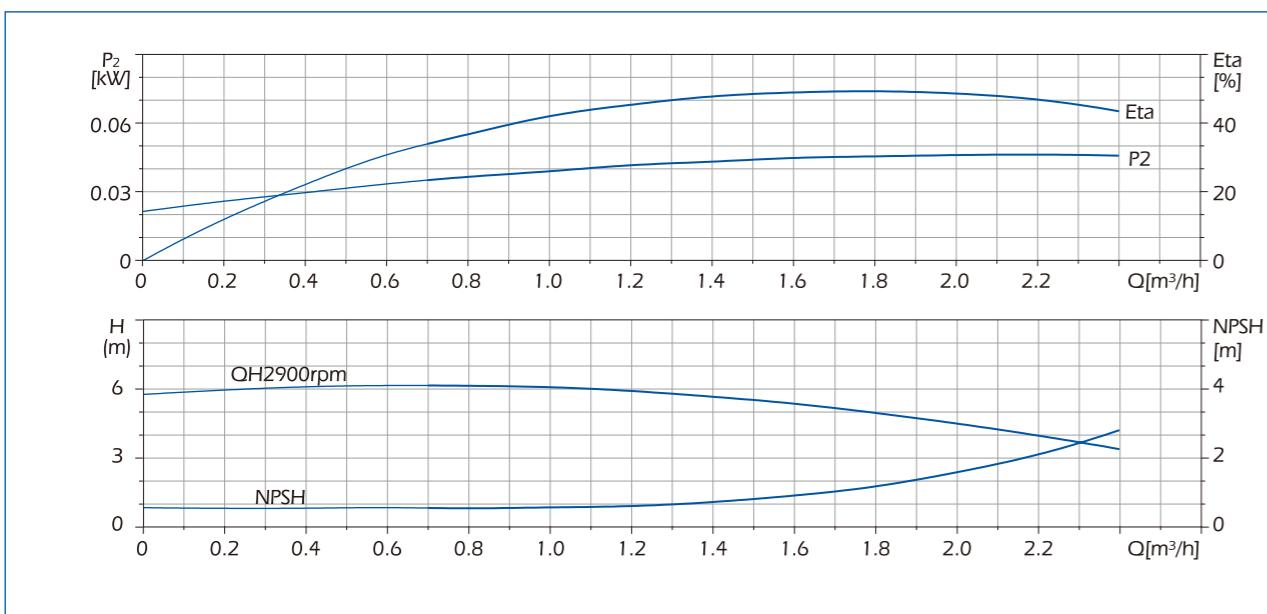
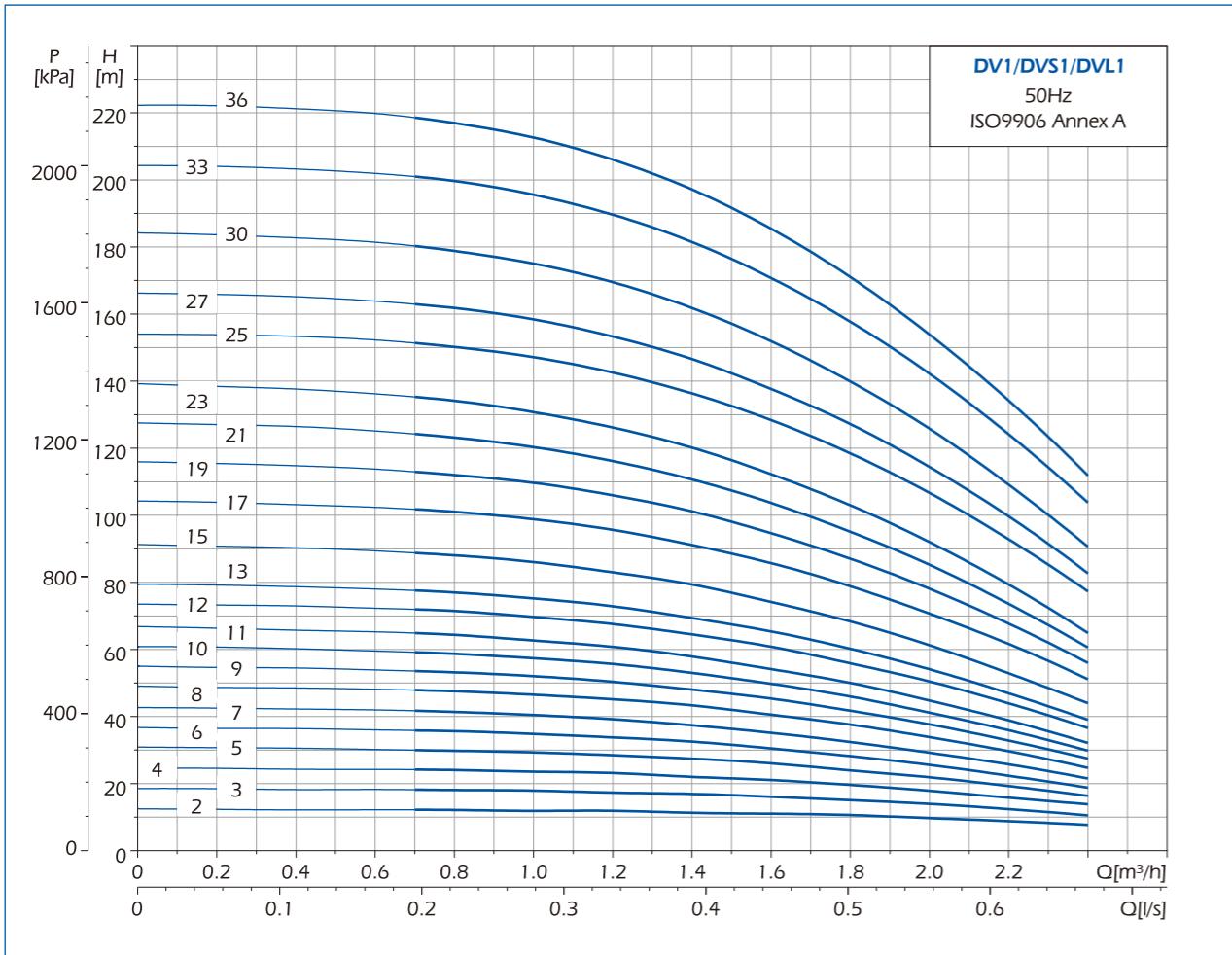
DV32(45.64.90)

No	Part	Material	Optional Material
1	Base plate	HT200	
2	Discharge plug assembly	AISI304	AISI316
3	Chassis	ZG304	ZG316
4	Primary diffuser	AISI304	AISI316
5	Diffuser with bearing	AISI304	AISI316
6	Medium diffuser	AISI304	AISI316
7	Impeller	AISI304	AISI316
8	Final volute	AISI304	AISI316
9	Motor base	HT200	AISI316
10	Filling plug	AISI304	AISI316
11	Coupling	Iron based powder metallurgy	
12	Motor		
13	Guarding plate	AISI304	
14	Cartridge seal		
15	Pump cover	ZG304	ZG316
16	Vent plug assembly	AISI304	AISI316
17	Pump shaft	AISI304	SUS316
18	Pump barrel	AISI304	SUS316
19	Flange	ZG35	AISI316

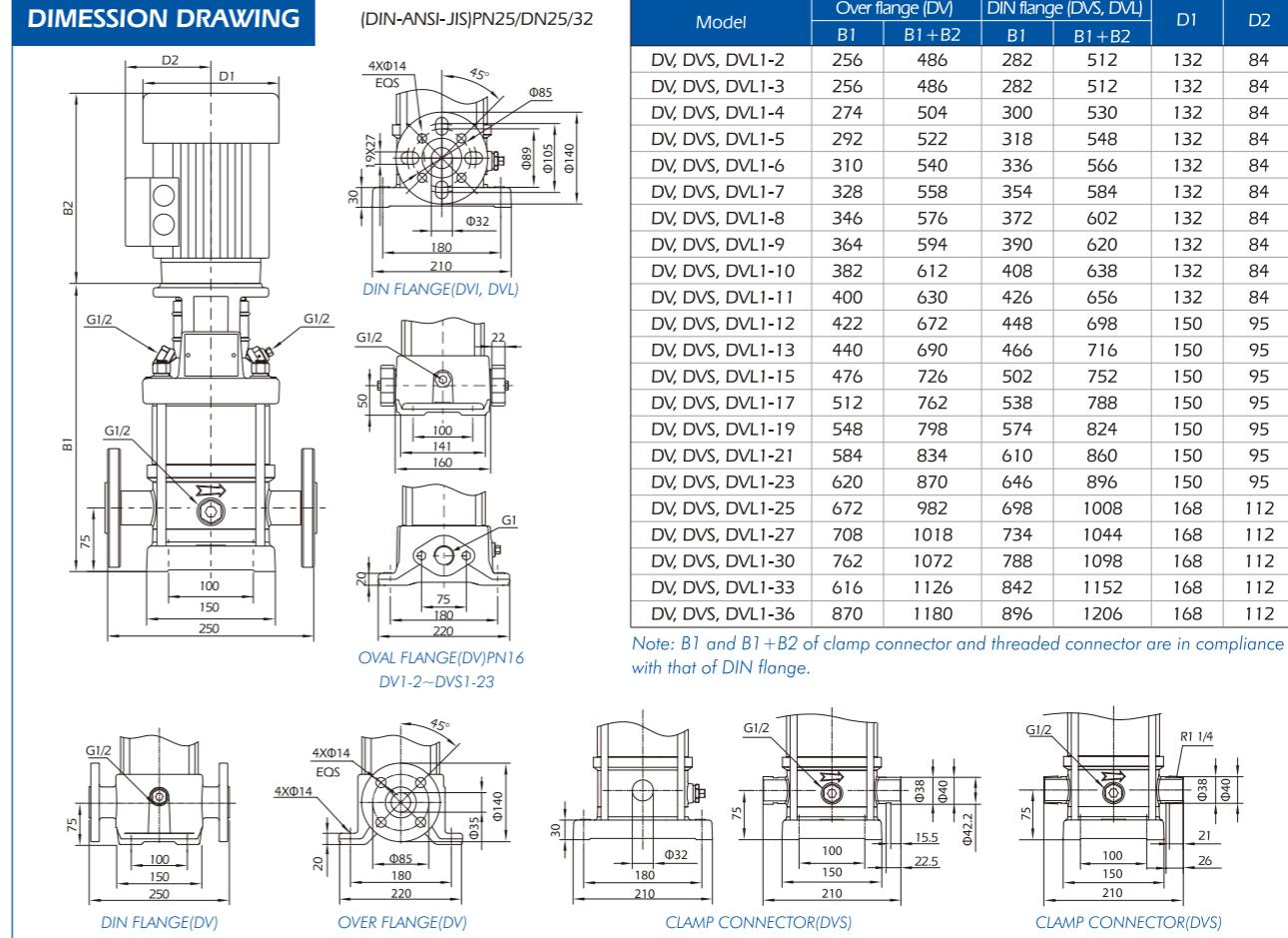
DVL32(45.64.90)

No	Part	Material	Optional Material
1	Base plate	HT200	
2	Drainage plug assembly	SUS304	SUS316
3	Pump casing	ZG304	
4	Primary diffuser	SUS304	SUS316
5	Diffuser with bearing	SUS304	SUS316
6	Medium diffuser	SUS304	SUS316
7	Impeller	SUS304	SUS316
8	Final volute	SUS304	SUS316
9	Vent plug assembly	SUS304	SUS316
10	Motor base	HT200	
11	Filling plug	SUS304	
12	Motor	Iron-based power metallurgy	
13	Guarding plate	SUS304	
14	Vent plug assembly	SUS304	SUS316
15	Cartridge seal		
16	Pump cover	SUS304	SUS316
17	Pump shaft	SUS304	SUS316
18	Pump barrel	SUS304	SUS316
19	Flange	QT400-18	

HYDRAULIC PERFORMANCE CURVES

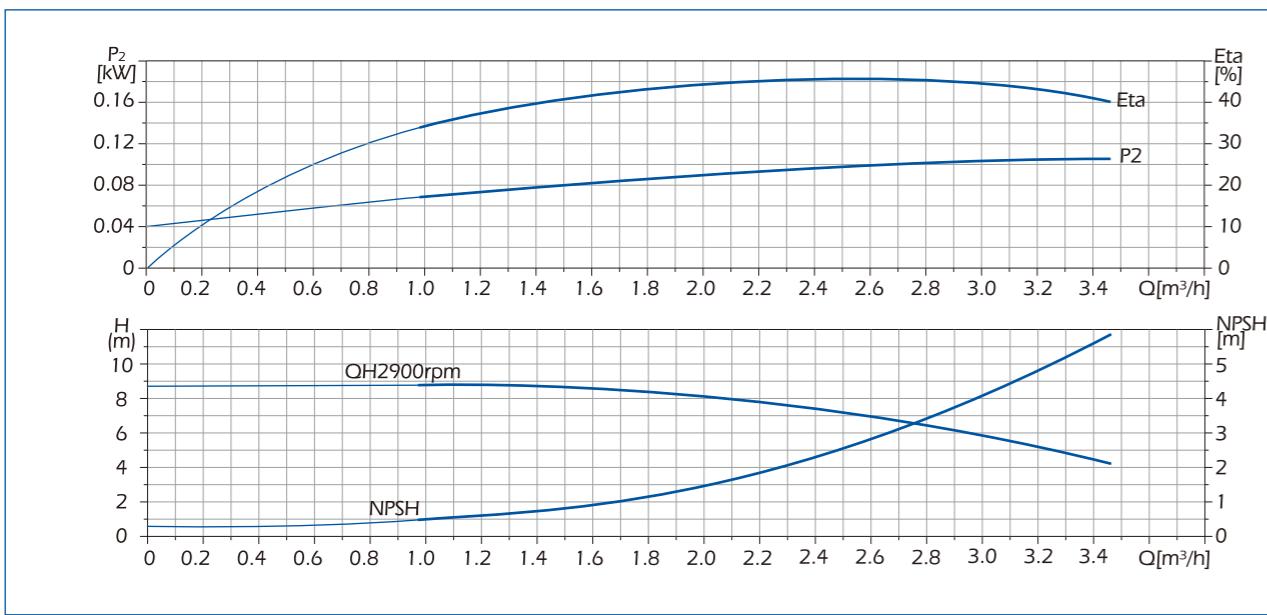
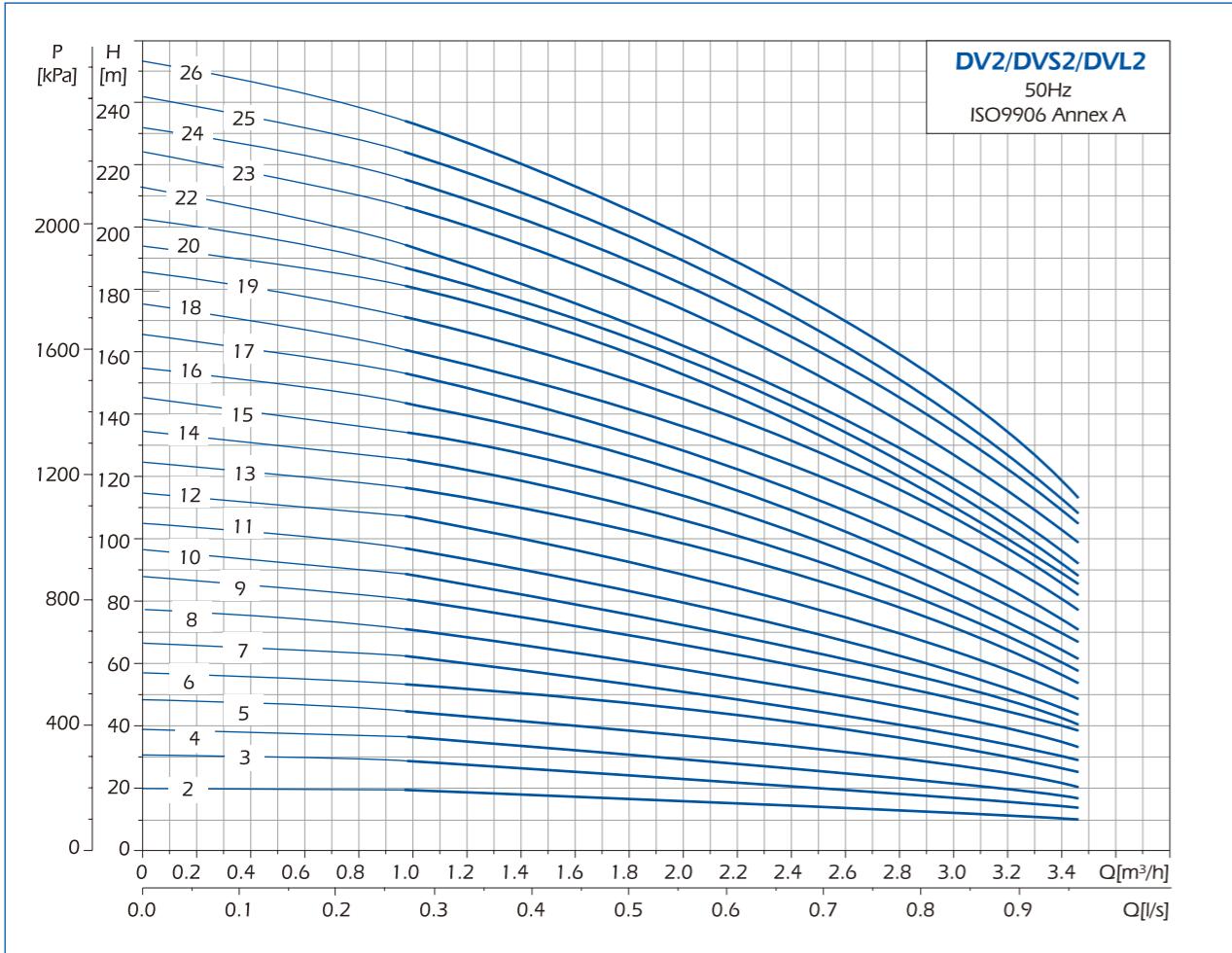


DIMENSION DRAWING

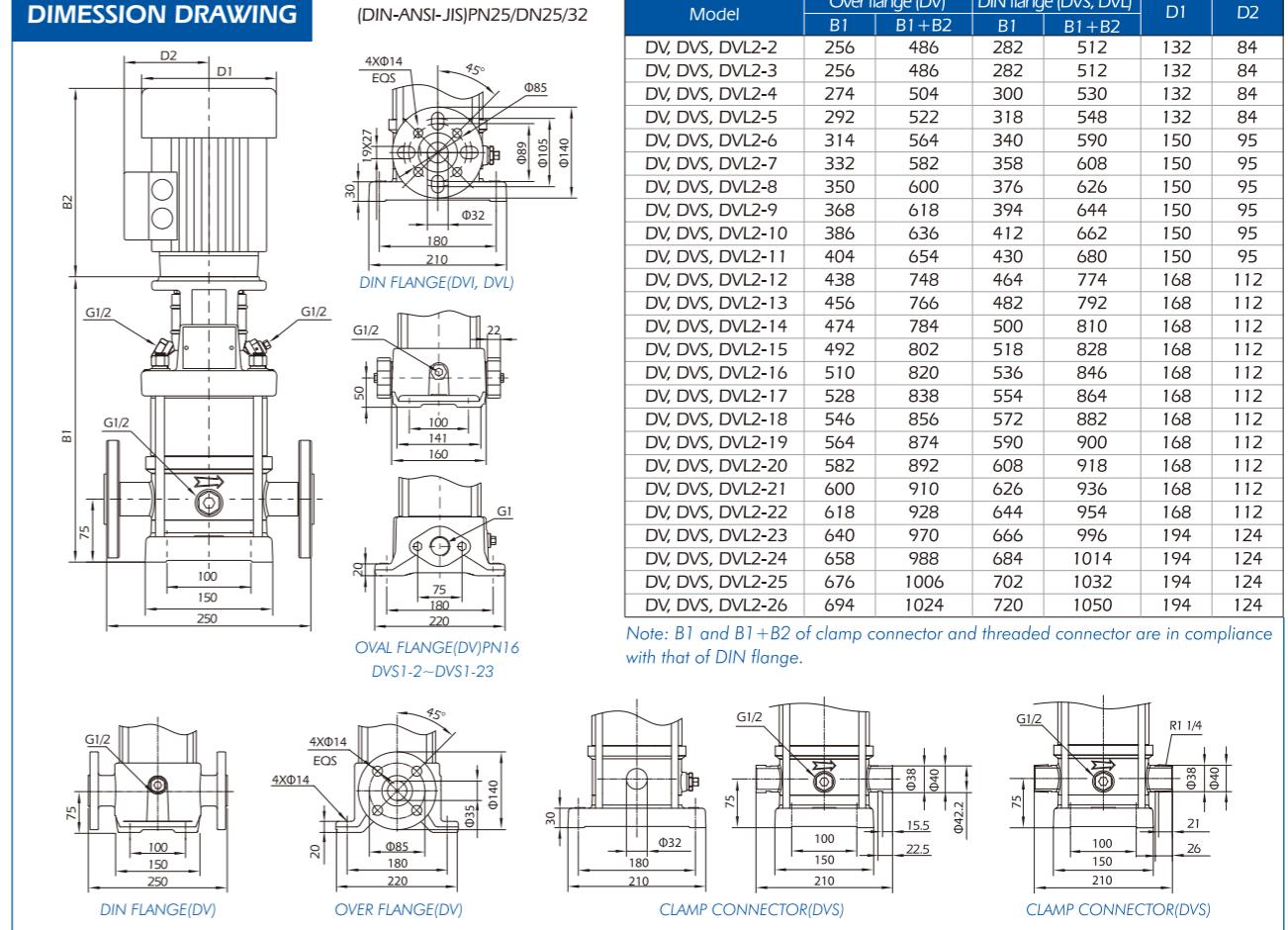


Model	Power (kW)	Q[m³/h]	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0
DV, DVS, DVL1-2	0.37		12	12	12	12	12	11	11	10	10
DV, DVS, DVL1-3	0.37		18	18	18	18	17	17	16	15	14
DV, DVS, DVL1-4	0.37		24	24	24	24	22	22	21	19	18
DV, DVS, DVL1-5	0.37		30	30	30	29.5	28	27	26	24	22
DV, DVS, DVL1-6	0.37		36	36	35	35	34	32	30	28	25
DV, DVS, DVL1-7	0.37		42	42	41	40.5	39	37	35	32	30
DV, DVS, DVL1-8	0.55		48	48	47	46.5	45	43	40	38	34
DV, DVS, DVL1-9	0.55		54	54	53	52	50	48	45	42	37
DV, DVS, DVL1-10	0.55		60	59	58	57.5	55	53	50	46	41
DV, DVS, DVL1-11	0.55		65	65	64	63	61	58	54	51	45
DV, DVS, DVL1-12	0.75		73	72	71	70	67	64	61	56	50
DV, DVS, DVL1-13	0.75		78	78	77	75	73	69	65	60	54
DV, DVS, DVL1-15	0.75		90	90	88	86	83	79	74	68	61
DV, DVS, DVL1-17	1.1		103	102	101	98	95	91	85	78	70
DV, DVS, DVL1-19	1.1		115	114	112	110	106	101	94	87	78
DV, DVS, DVL1-21	1.1		126	125	123	120	116	110	103	95	85
DV, DVS, DVL1-23	1.1		137	136	134	130	126	120	112	103	92
DV, DVS, DVL1-25	1.5		153	152	150	145	142	136	128	119	106
DV, DVS, DVL1-27	1.5		165	164	162	157	153	146	137	128	114
DV, DVS, DVL1-30	1.5		182	181	178	173	169	162	152	140	126
DV, DVS, DVL1-33	2.2		203	202	199	194	189	181	170	158	142
DV, DVS, DVL1-36	2.2		221	220	217	210	206	197	185	170	154

HYDRAULIC PERFORMANCE CURVES



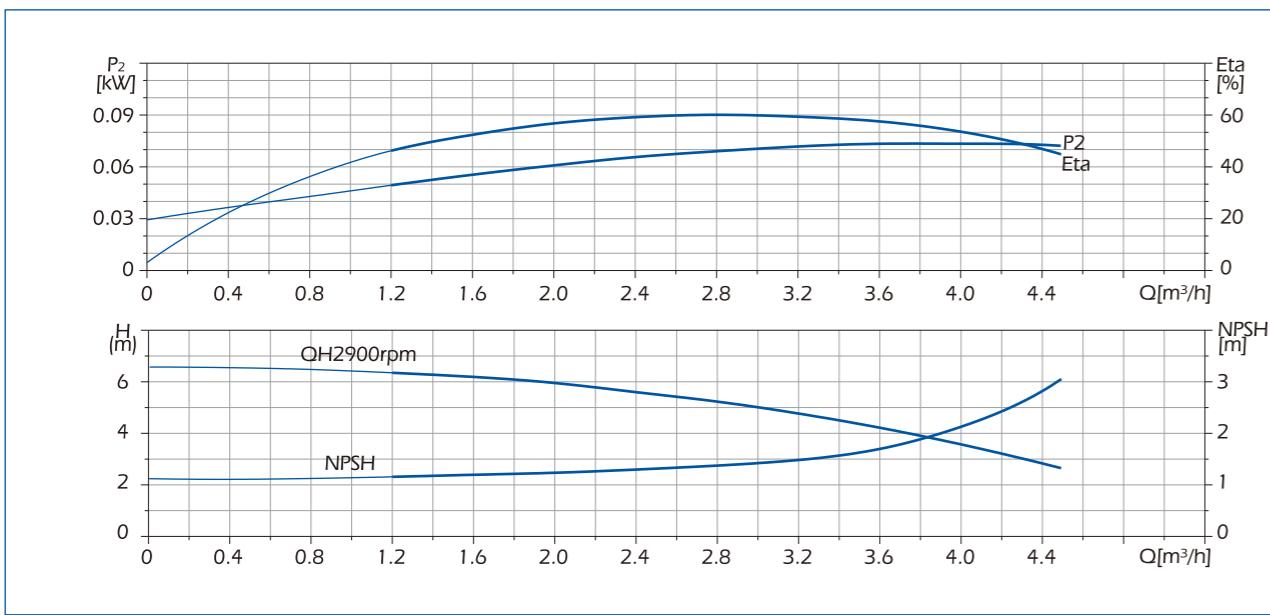
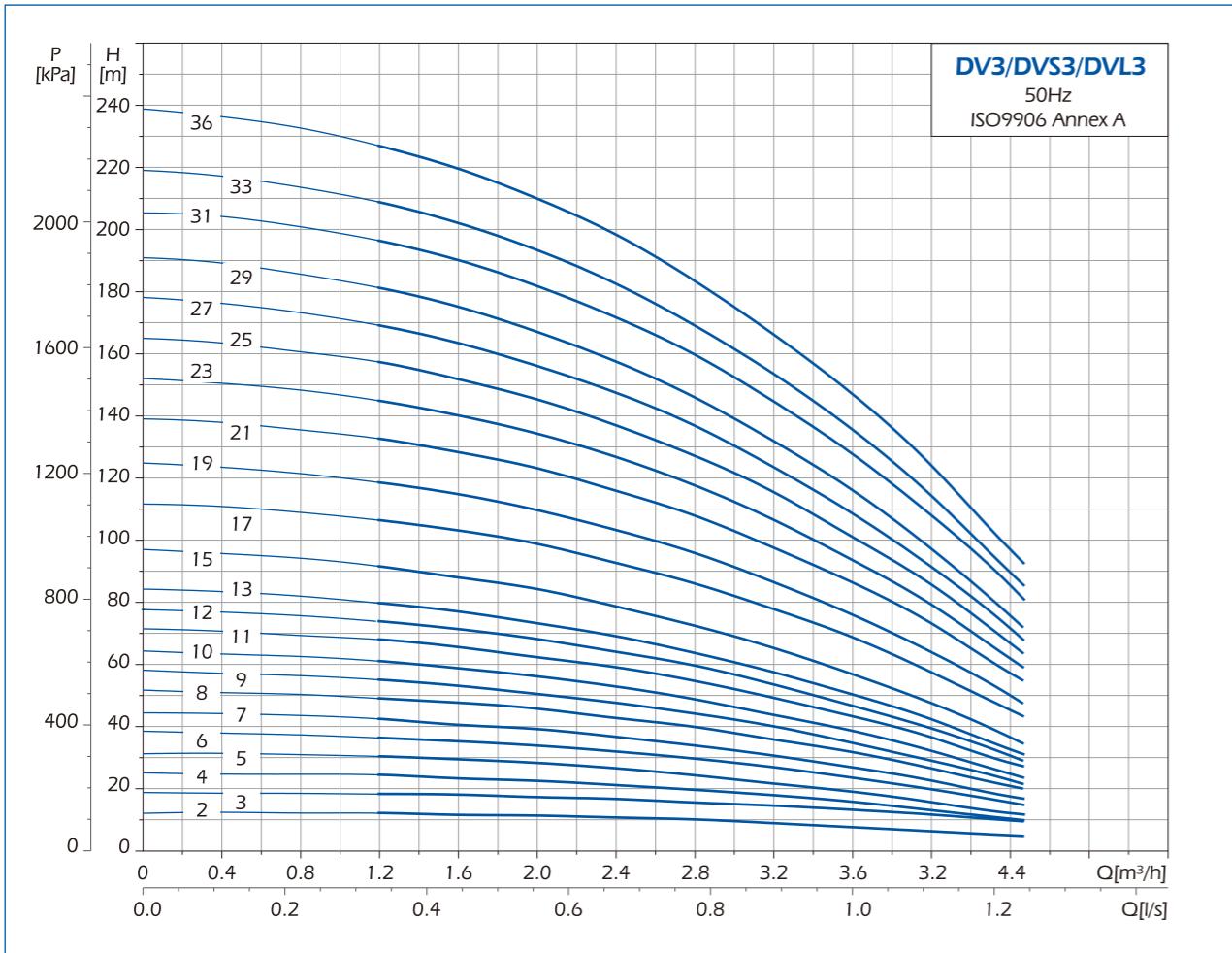
DIMENSION DRAWING



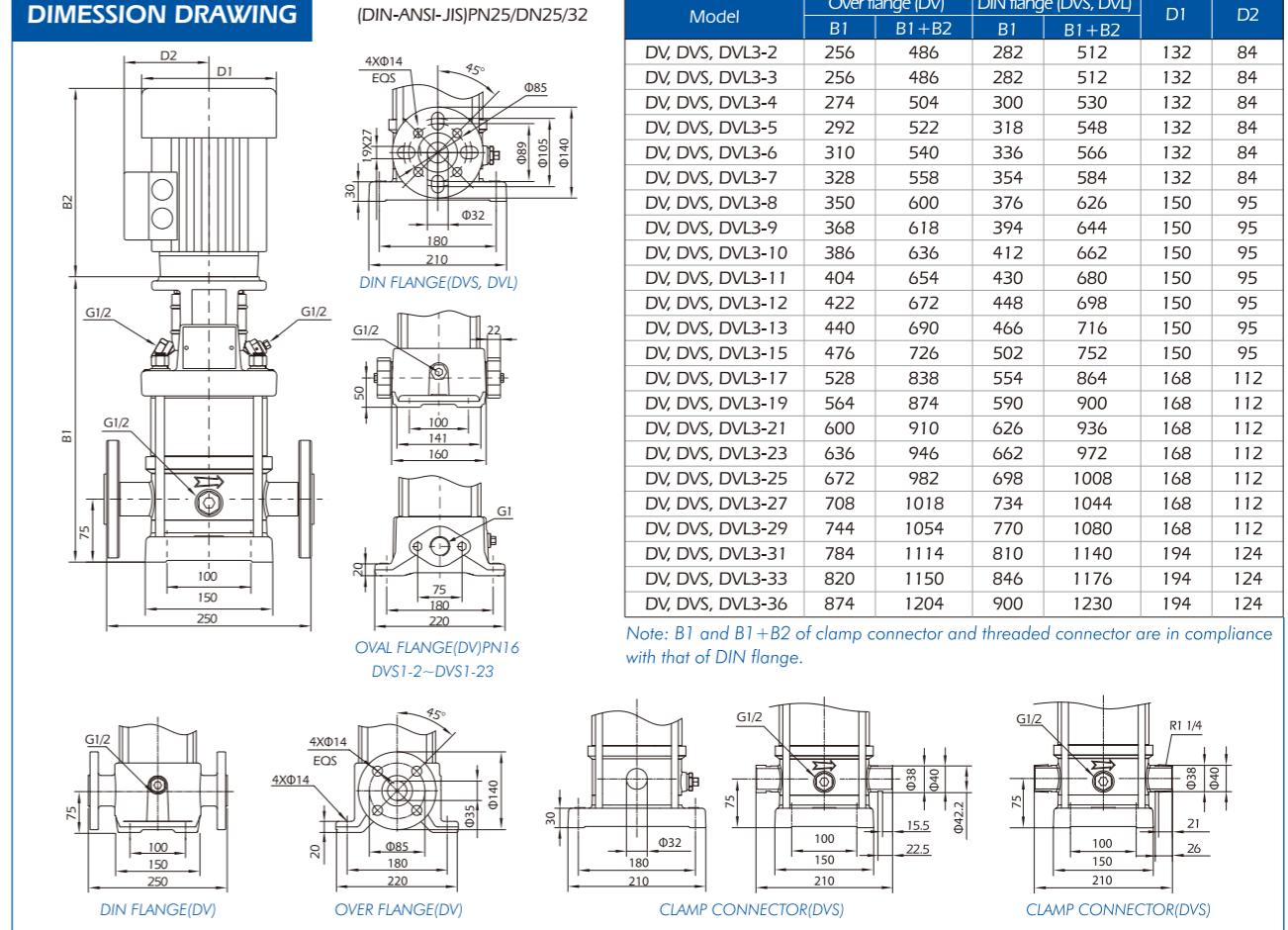
Note: B1 and B1+B2 of clamp connector and threaded connector are in compliance with that of DIN flange.

Model	Power (kW)	Q[m³/h]	H(m)							
			1.0	1.2	1.6	2.0	2.5	2.8	3.2	3.5
DV, DVS, DVL2-2	0.37	18	17	16	15.5	13.5	12	10	8	
DV, DVS, DVL2-3	0.37	27	26	24	22.5	19.5	18	15	12	
DV, DVS, DVL2-4	0.55	36	35	33	30.5	27	24	17	16	
DV, DVS, DVL2-5	0.55	45	43	40	37	32.5	30	24	20	
DV, DVS, DVL2-6	0.75	53	52	50	45.5	40	36	30	24	
DV, DVS, DVL2-7	0.75	63	61	57	52	45.5	41	35	28	
DV, DVS, DVL2-8	1.1	71	69	65	59	51	47	40	33	
DV, DVS, DVL2-9	1.1	80	78	73	68.5	60	54	45	37	
DV, DVS, DVL2-10	1.1	89	86	81	74	65	59	49	40	
DV, DVS, DVL2-11	1.1	98	95	89	82	71.5	64	54	44	
DV, DVS, DVL2-12	1.5	107	103	97	90	78	71	59	47	
DV, DVS, DVL2-13	1.5	116	114	106	98	86.5	78	65	52	
DV, DVS, DVL2-14	1.5	125	122	114	105	92	84	69	57	
DV, DVS, DVL2-15	1.5	134	130	123	112	98	90	73	60	
DV, DVS, DVL2-16	2.2	143	139	131	120	104	96	79	66	
DV, DVS, DVL2-17	2.2	152	148	139	128	111	102	85	70	
DV, DVS, DVL2-18	2.2	161	157	148	136	122	108	91	76	
DV, DVS, DVL2-19	2.2	170	165	156	143	128	113	95	81	
DV, DVS, DVL2-20	2.2	179	174	164	150	134	119	100	85	
DV, DVS, DVL2-21	2.2	188	183	172	157	140	124	105	88	
DV, DVS, DVL2-22	2.2	197	192	180	165	145	130	110	90	
DV, DVS, DVL2-23	3.0	205	201	188	173	153	137	105	97	
DV, DVS, DVL2-24	3.0	214	210	197	181	160	144	120	105	
DV, DVS, DVL2-25	3.0	223	219	205	189	168	151	125	107	
DV, DVS, DVL2-26	3.0	232	228	214	198	176	158	130	110	

HYDRAULIC PERFORMANCE CURVES

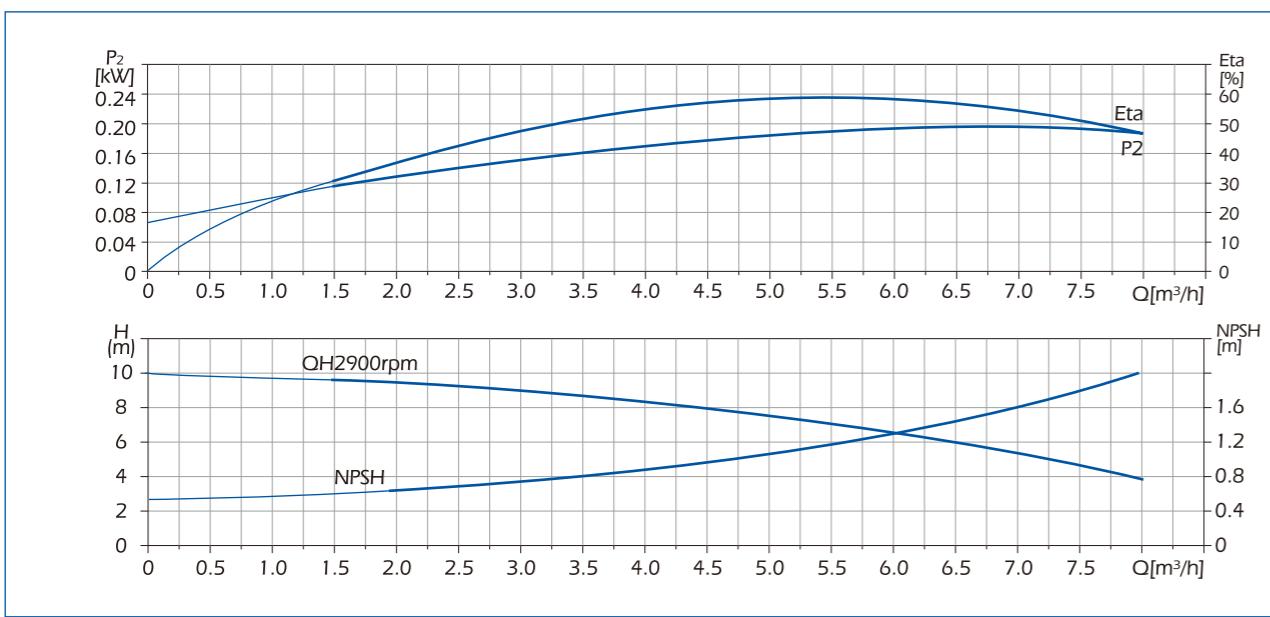
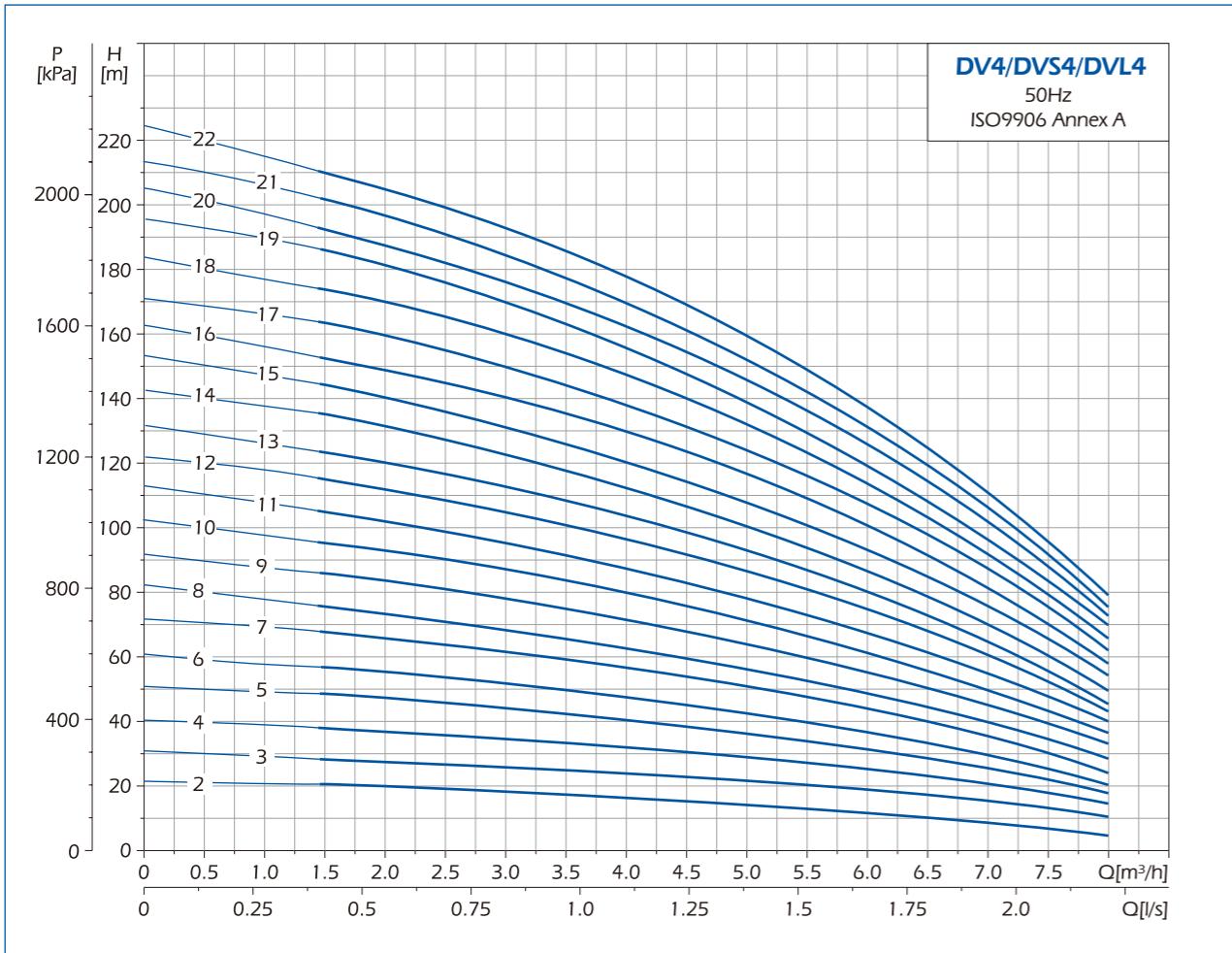


DIMENSION DRAWING

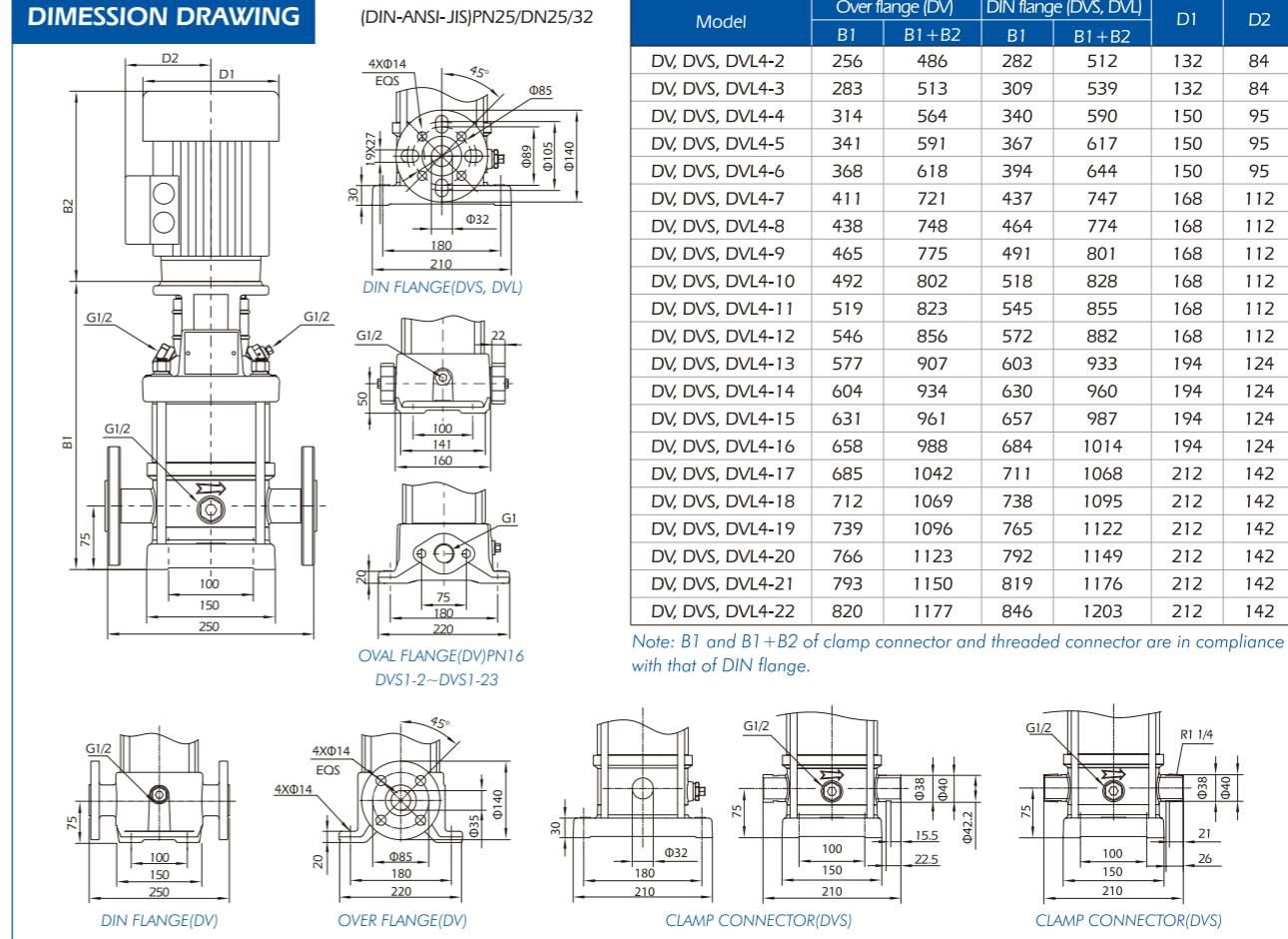


Model	Power (kW)	Q[m³/h]	H(m)							
			1.2	1.6	2.0	2.4	2.8	3.0	3.6	4.0
DV, DVS, DVL3-2	0.37	13	12	12	11	11	10	8	7.5	
DV, DVS, DVL3-3	0.37	19	19	18	17	16	15	14	12	
DV, DVS, DVL3-4	0.37	25	24	23	22	20	19	17	14	
DV, DVS, DVL3-5	0.37	31	31	29	27	25	24	20	17	
DV, DVS, DVL3-6	0.55	37	36	35	33	30	28	24	21	
DV, DVS, DVL3-7	0.55	43	40	40	37	35	32	28	24	
DV, DVS, DVL3-8	0.75	51	48	47	44	41	38	33	28	
DV, DVS, DVL3-9	0.75	56	54	51	48	45	42	36	30	
DV, DVS, DVL3-10	0.75	62	60	57	54	50	46	40	33	
DV, DVS, DVL3-11	1.1	69	66	63	60	56	51	44	38	
DV, DVS, DVL3-12	1.1	75	72	69	65	61	56	48	41	
DV, DVS, DVL3-13	1.1	80	78	74	70	65	60	51	44	
DV, DVS, DVL3-15	1.1	92	89	85	80	73	68	58	49	
DV, DVS, DVL3-17	1.5	107	104	100	94	87	78	70	59	
DV, DVS, DVL3-19	1.5	119	116	111	104	97	87	77	65	
DV, DVS, DVL3-21	2.2	133	129	124	117	109	97	88	75	
DV, DVS, DVL3-23	2.2	146	141	135	128	119	105	95	81	
DV, DVS, DVL3-25	2.2	158	153	146	138	128	115	102	87	
DV, DVS, DVL3-27	2.2	170	164	157	148	138	124	110	93	
DV, DVS, DVL3-29	2.2	182	176	168	159	147	133	118	100	
DV, DVS, DVL3-31	3.0	197	191	183	173	161	142	128	110	
DV, DVS, DVL3-33	3.0	210	203	194	194	170	152	137	116	
DV, DVS, DVL3-36	3.0	228	221	211	200	185	165	149	126	

HYDRAULIC PERFORMANCE CURVES

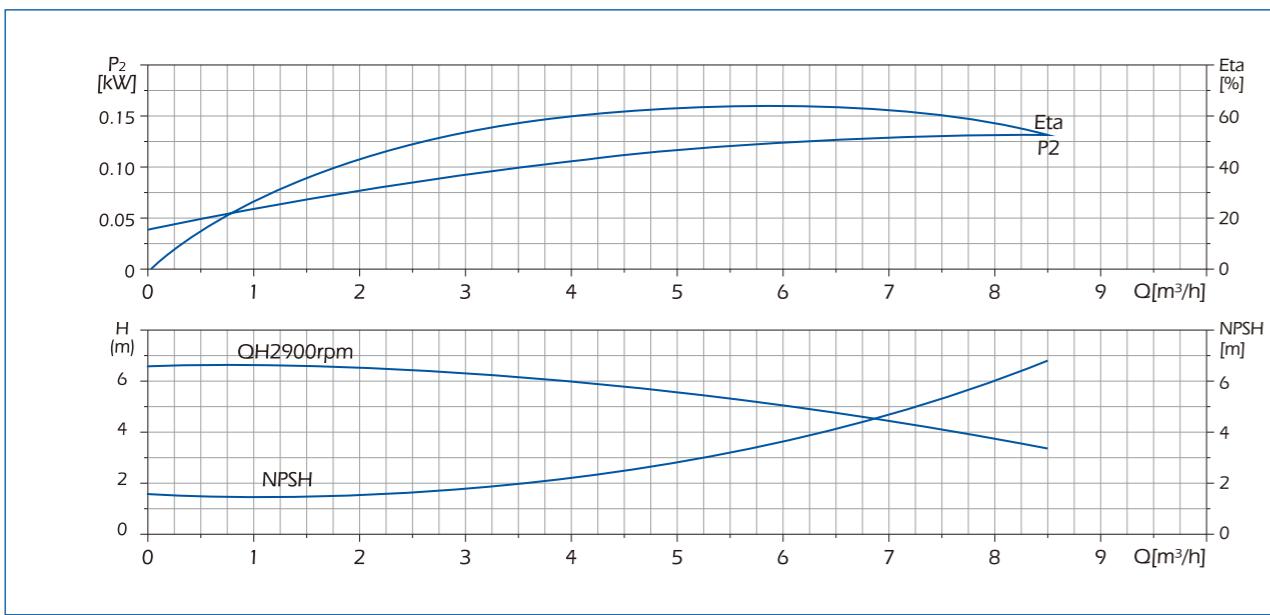
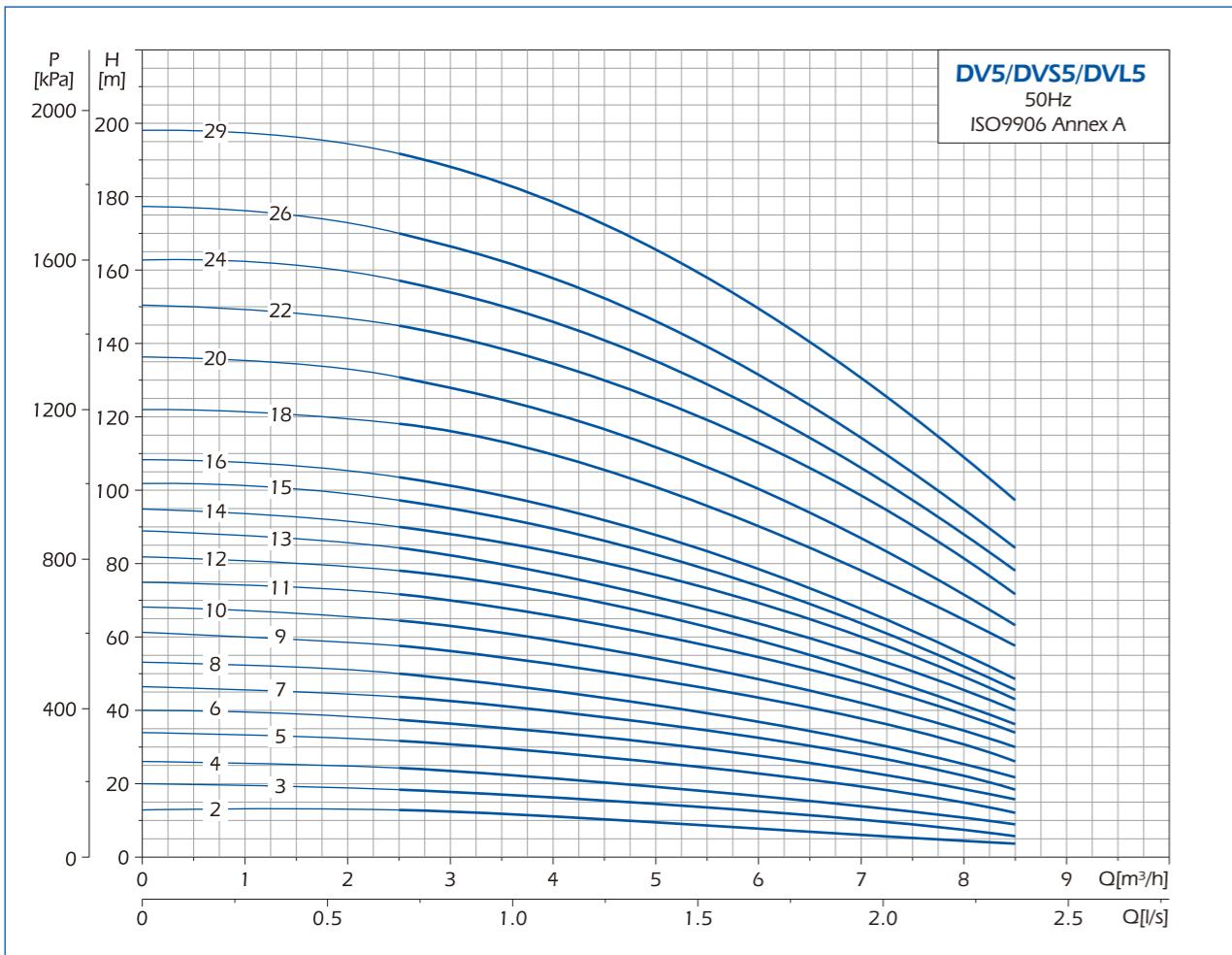


DIMENSION DRAWING

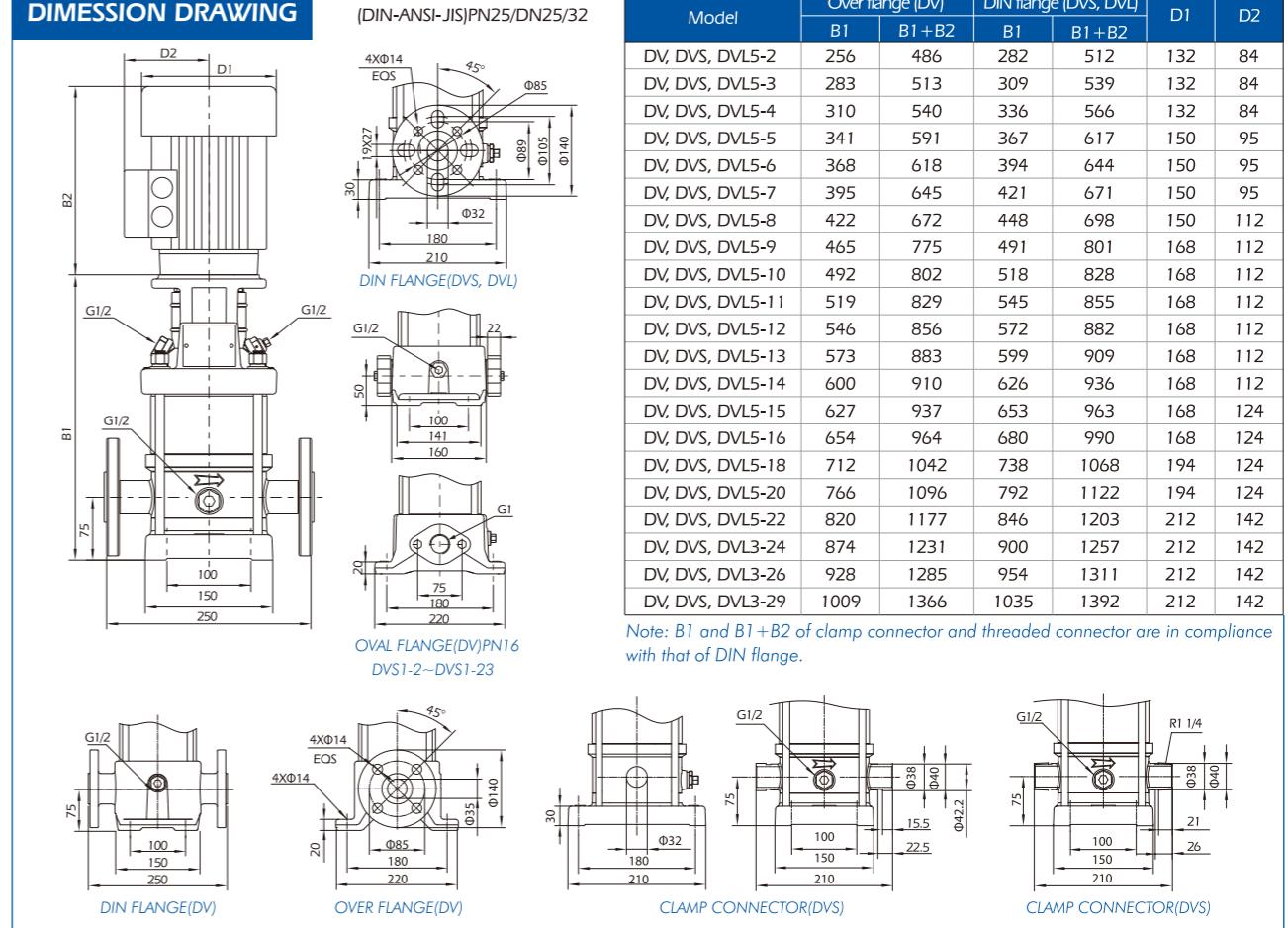


Model	Power (kW)	Q[m³/h]	H(m)							
			1.5	2.0	3.0	5.0	6.0	7.0	8.0	
DV, DVS, DVL4-2	0.37	19	18	17	13	10.5	8	6		
DV, DVS, DVL4-3	0.55	28	27	26	20	18	14	10		
DV, DVS, DVL4-4	0.75	38	36	34	27	24.5	18	13		
DV, DVS, DVL4-5	1.1	47	45	43	34	31.5	23	17		
DV, DVS, DVL4-6	1.1	56	54	52	41	36	28	20		
DV, DVS, DVL4-7	1.5	66	63	61	48	44.5	34	24		
DV, DVS, DVL4-8	1.5	74	72	70	55	49.5	38	27		
DV, DVS, DVL4-9	2.2	86	81	78	63	56	44	32		
DV, DVS, DVL4-10	2.2	96	90	87	71	64	50	34		
DV, DVS, DVL4-11	2.2	105	99	95	78	69	53	39		
DV, DVS, DVL4-12	2.2	114	108	104	85	75	57	41		
DV, DVS, DVL4-13	3.0	123	117	113	93	83	63	45		
DV, DVS, DVL4-14	3.0	136	126	122	101	90	69	48		
DV, DVS, DVL4-15	3.0	142	135	131	108	96	73	52		
DV, DVS, DVL4-16	3.0	152	144	140	115	102	78	55		
DV, DVS, DVL4-17	4.0	163	153	149	122	108	83	62		
DV, DVS, DVL4-18	4.0	175	162	158	129	115	89	65		
DV, DVS, DVL4-19	4.0	183	171	168	137	123	95	67		
DV, DVS, DVL4-20	4.0	192	180	176	144	128	99	72		
DV, DVS, DVL4-21	4.0	203	210	184	152	134	103	75		
DV, DVS, DVL4-22	4.0	211	200	192	160	139	108	79		

HYDRAULIC PERFORMANCE CURVES

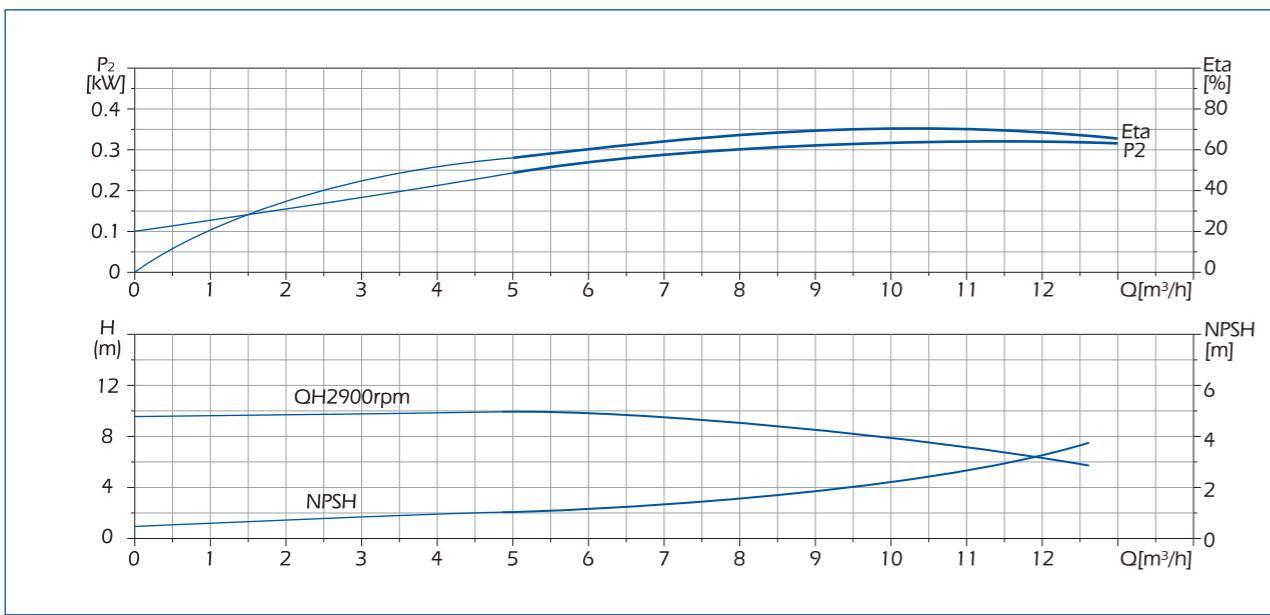
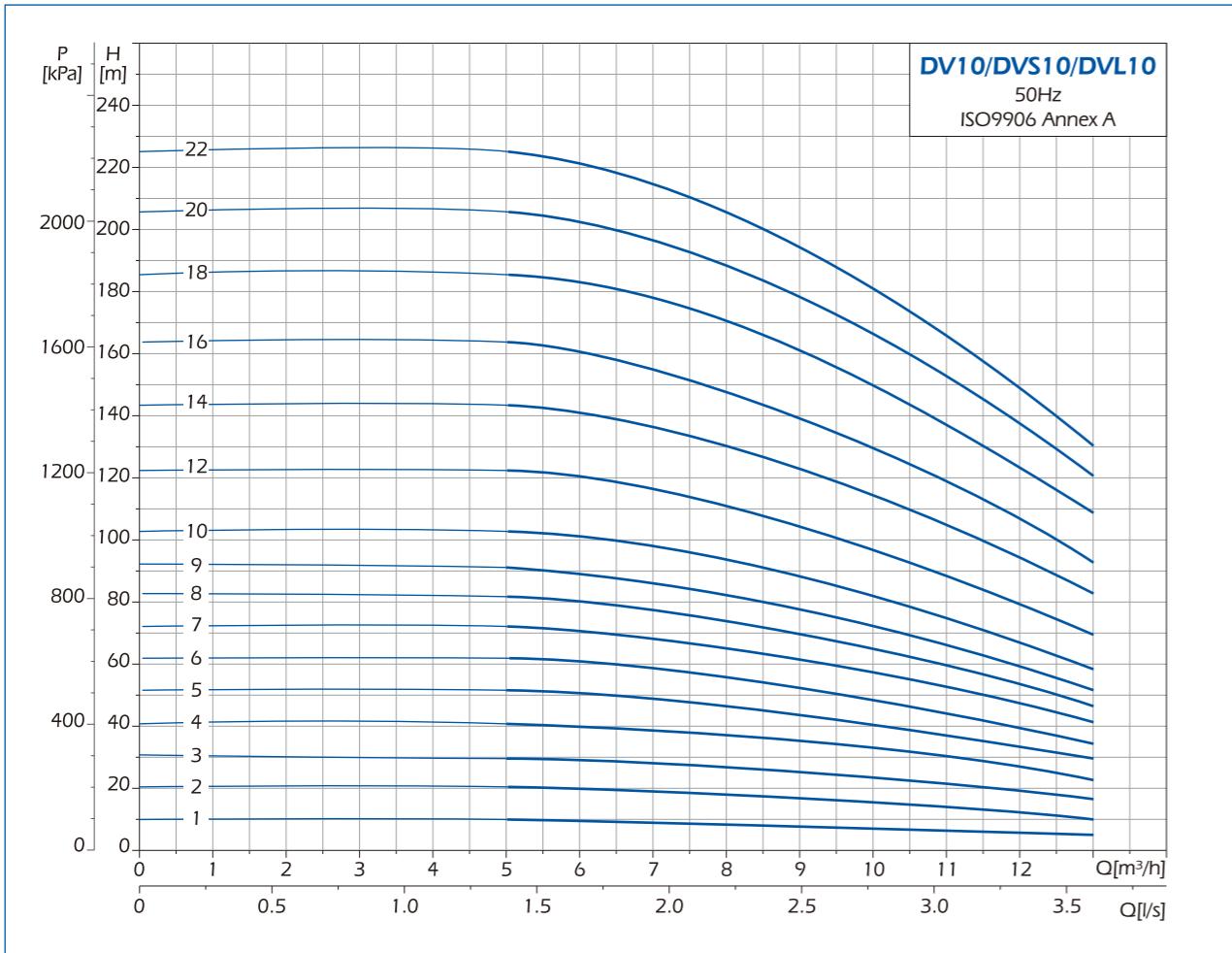


DIMENSION DRAWING

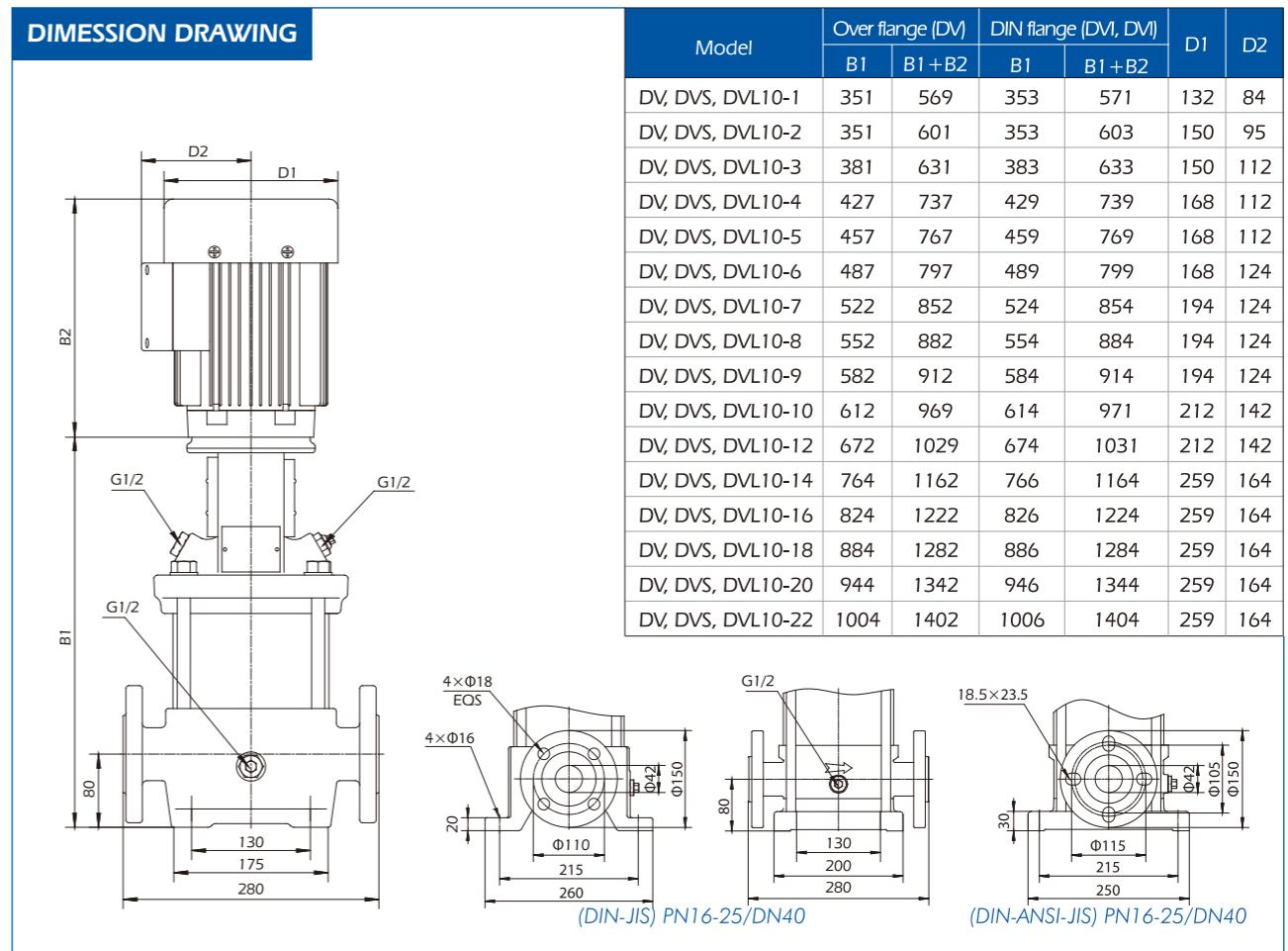


Model	Power (kW)	Q[m³/h]	1	2	3	4	5	6	7
DV, DVS5-2	0.37		13	12	12	10	9	7	6
DV, DVS5-3	0.55		19	19	18	16	15	12	10
DV, DVS5-4	0.55		26	25	24	22	19	16	14
DV, DVS5-5	0.75		33	32	30	28	24	22	18
DV, DVS5-6	1.1		40	38	37	34	28	27	23
DV, DVS5-7	1.1		46	45	42	40	32	32	27
DV, DVS5-8	1.1		53	51	48	45	40	36	31
DV, DVS5-9	1.5		60	59	56	53	47	44	37
DV, DVS5-10	1.5		67	65	62	59	53	48	41
DV, DVS5-11	2.2		74	73	70	66	59	54	47
DV, DVS5-12	2.2		81	79	76	72	63	59	51
DV, DVS5-13	2.2		88	85	82	78	68	64	55
DV, DVS5-14	2.2		95	92	89	83	74	69	60
DV, DVS5-15	2.2		101	99	95	89	79	74	63
DV, DVS5-16	2.2		108	105	101	95	85	78	68
DV, DVS5-18	3.0		122	119	115	109	98	90	78
DV, DVS5-20	3.0		135	132	127	120	108	100	87
DV, DVS5-22	4.0		150	147	142	134	120	112	97
DV, DVS3-24	4.0		163	160	154	146	132	122	106
DV, DVS3-26	4.0		176	173	166	157	145	132	115
DV, DVS3-29	4.0		198	194	188	178	155	149	131

HYDRAULIC PERFORMANCE CURVES

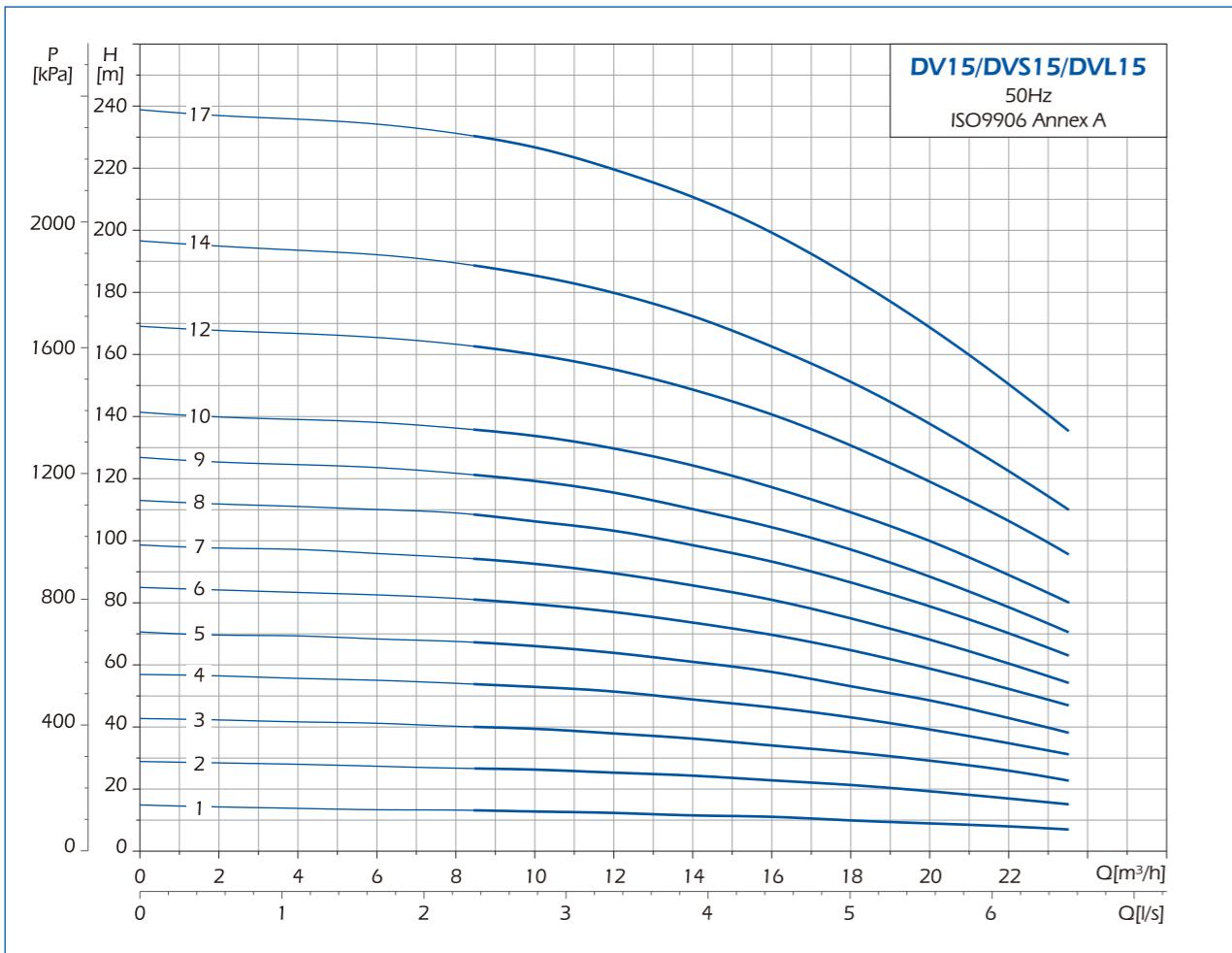


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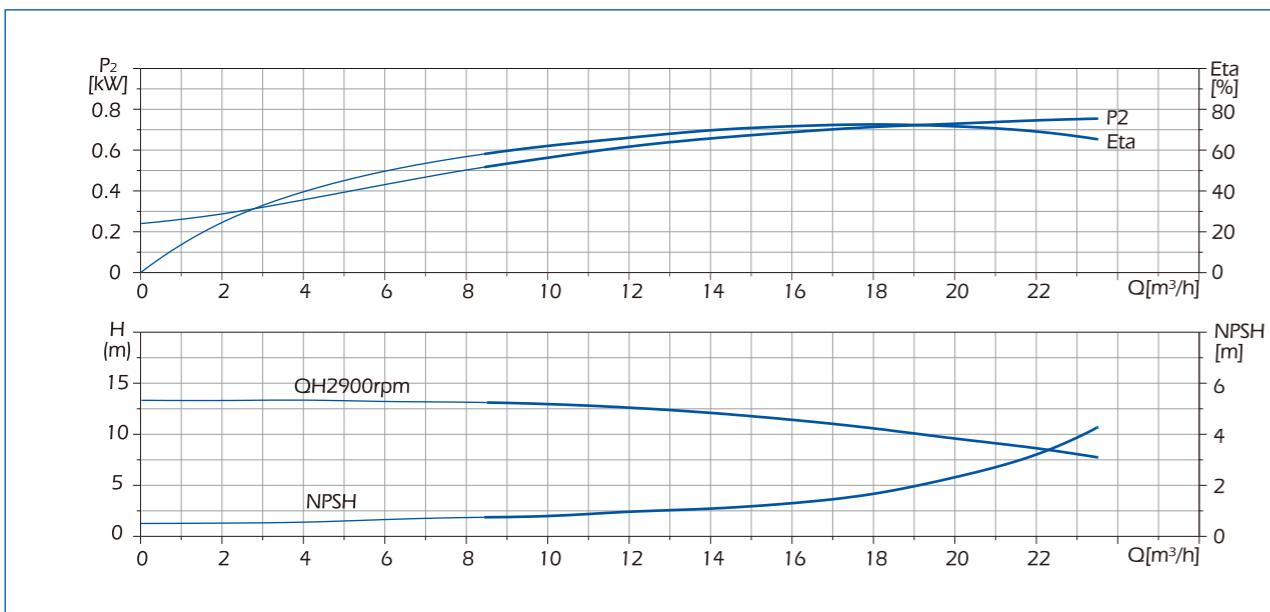
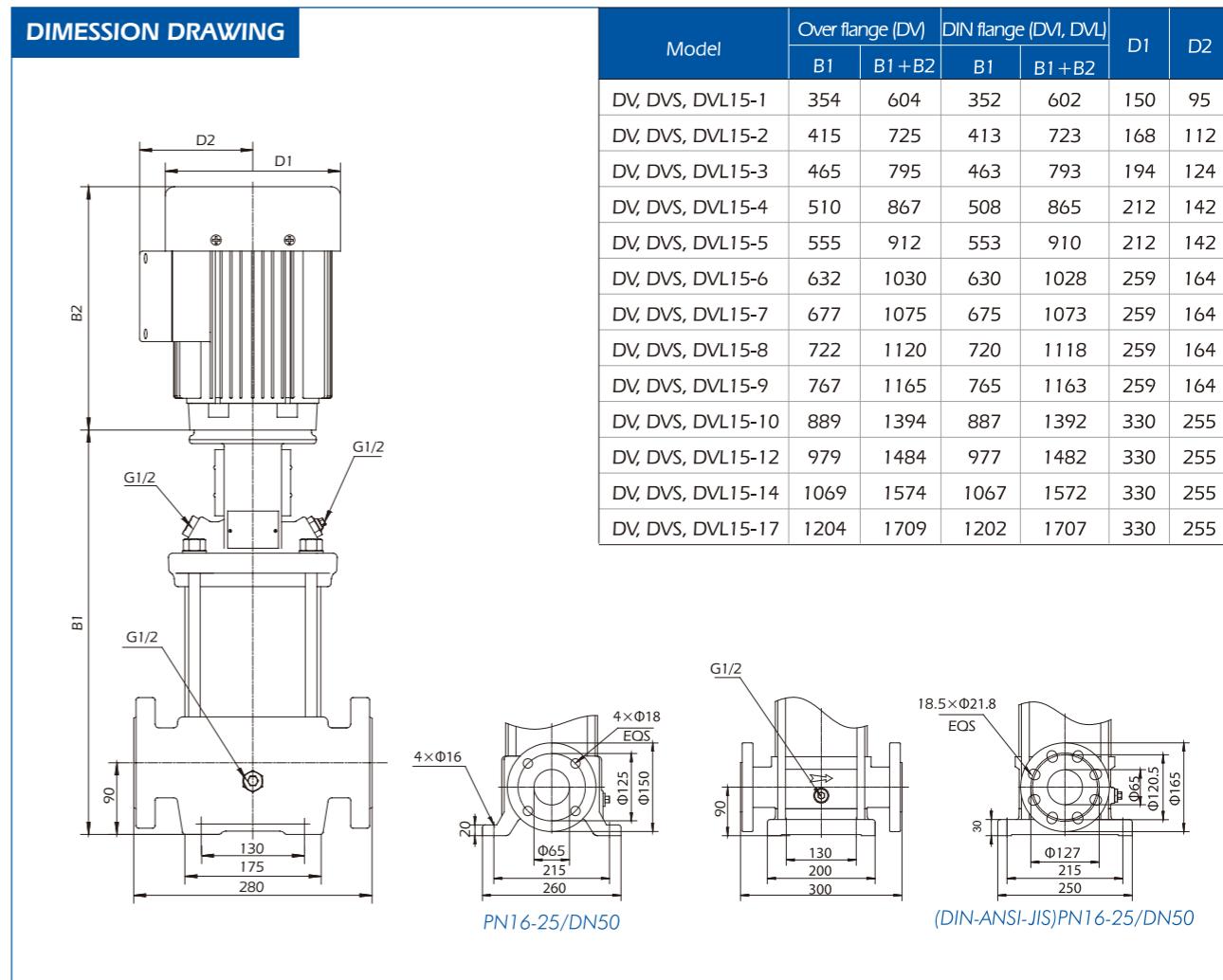


Model	Power (kW)	Q[m³/h]	H(m)					
			2	4	6	8	10	12
DV, DVS, DVL10-1	0.37		10	10	9	8	7.5	5
DV, DVS, DVL10-2	0.75		20	20	19	18	15	12
DV, DVS, DVL10-3	1.1		30	30	29	26	23	18
DV, DVS, DVL10-4	1.5		40	40	40	36	32	26
DV, DVS, DVL10-5	2.2		51	51	50	46	40	33
DV, DVS, DVL10-6	2.2		61	61	59	55	48	39
DV, DVS, DVL10-7	3.0		72	72	70	65	56	46
DV, DVS, DVL10-8	3.0		82	82	80	74	64	53
DV, DVS, DVL10-9	3.0		92	92	89	82	70	59
DV, DVS, DVL10-10	4.0		102	102	100	93	80	66
DV, DVS, DVL10-12	4.0		122	122	119	110	95	79
DV, DVS, DVL10-14	5.5		143	144	140	130	113	94
DV, DVS, DVL10-16	5.5		163	163	159	148	128	106
DV, DVS, DVL10-18	7.5		185	186	182	169	147	123
DV, DVS, DVL10-20	7.5		206	204	201	188	164	136
DV, DVS, DVL10-22	7.5		226	226	221	206	178	147

HYDRAULIC PERFORMANCE CURVES

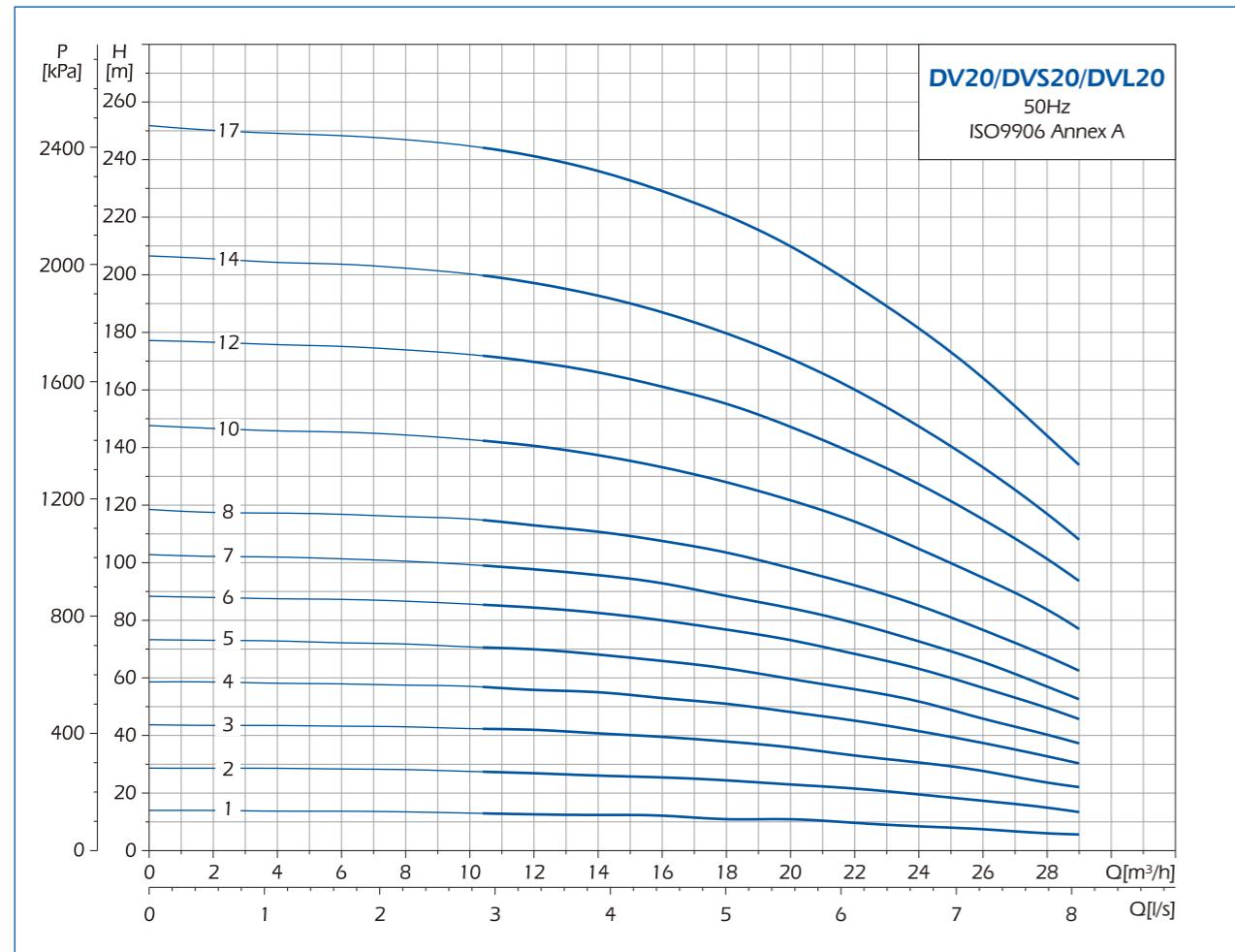


DICTION DRAWING

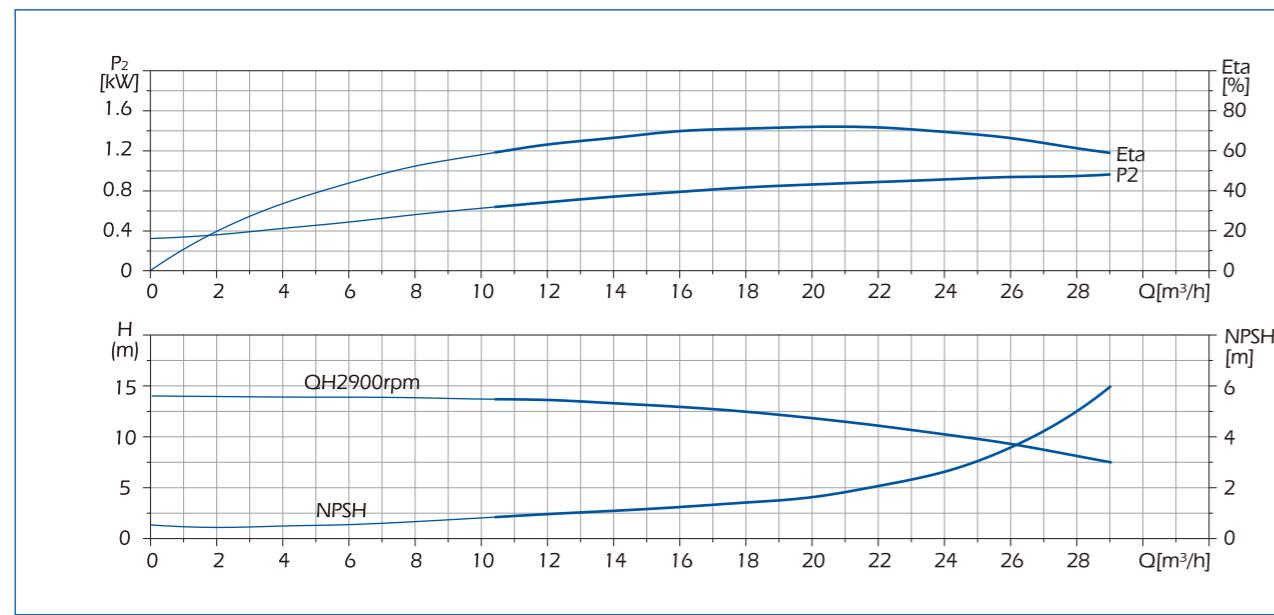
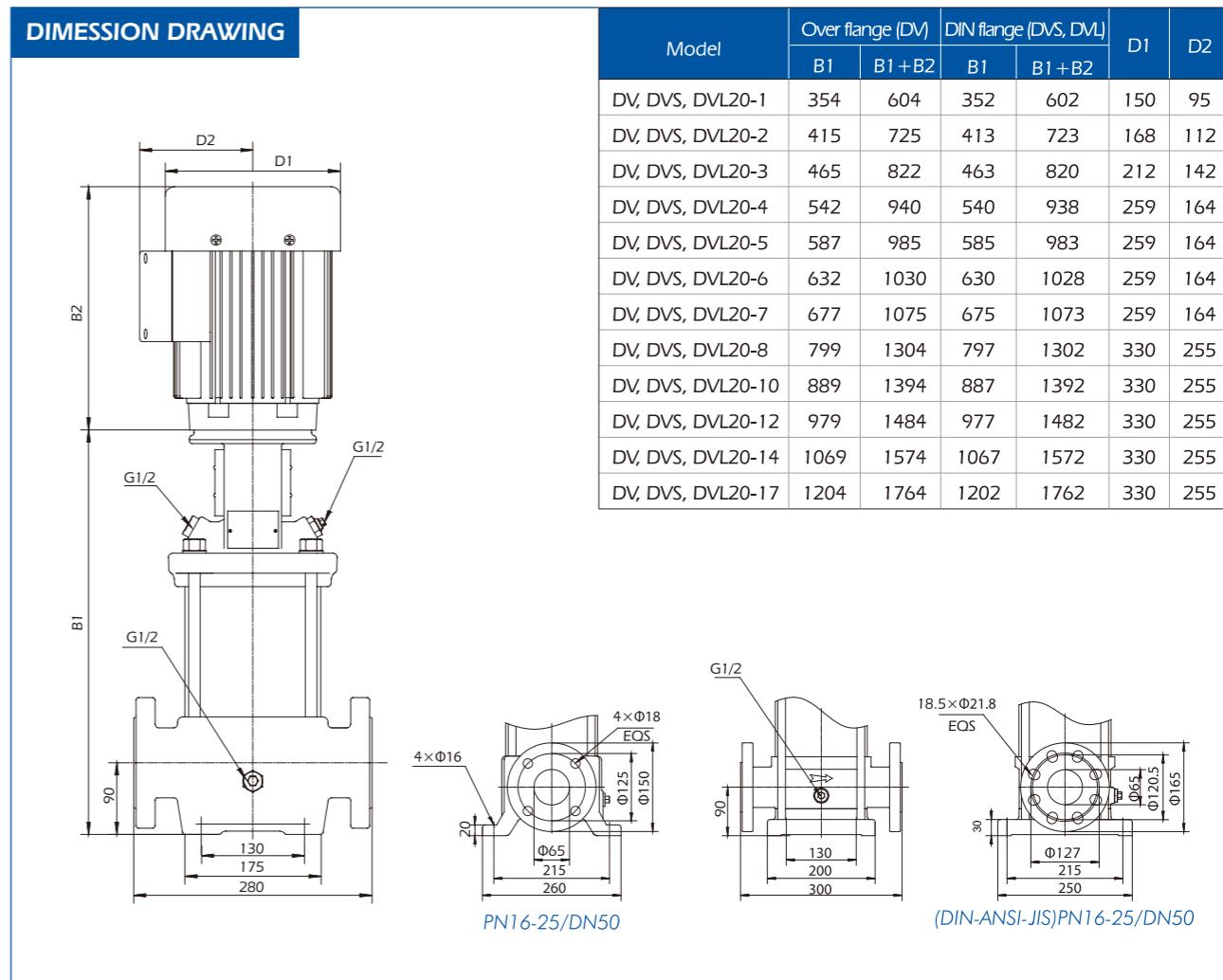


Model	Power (kW)	Q[m³/h]	3	6	9	12	15	18	21
DV, DVS15-1	1.1	15	13	13	12	11	10	9	
DV, DVS15-2	2.2	28	27	26	25	23	21	18	
DV, DVS15-3	3.0	42	41	40	38	35	32	28	
DV, DVS15-4	4.0	58	55	55	51	47	43	38	
DV, DVS15-5	4.0	70	68	66	64	58	53	48	
DV, DVS15-6	5.5	83	82	80	77	71	64	58	
DV, DVS15-7	5.5	98	96	94	89	83	75	65	
DV, DVS15-8	7.5	112	110	108	103	96	86	75	
DV, DVS15-9	7.5	125	123	120	115	108	97	84	
DV, DVS15-10	11.0	140	138	136	129	120	109	95	
DV, DVS15-12	11.0	168	165	162	155	142	130	114	
DV, DVS15-14	11.0	194	192	188	180	166	151	130	
DV, DVS15-17	15.0	237	234	230	219	205	185	160	

HYDRAULIC PERFORMANCE CURVES

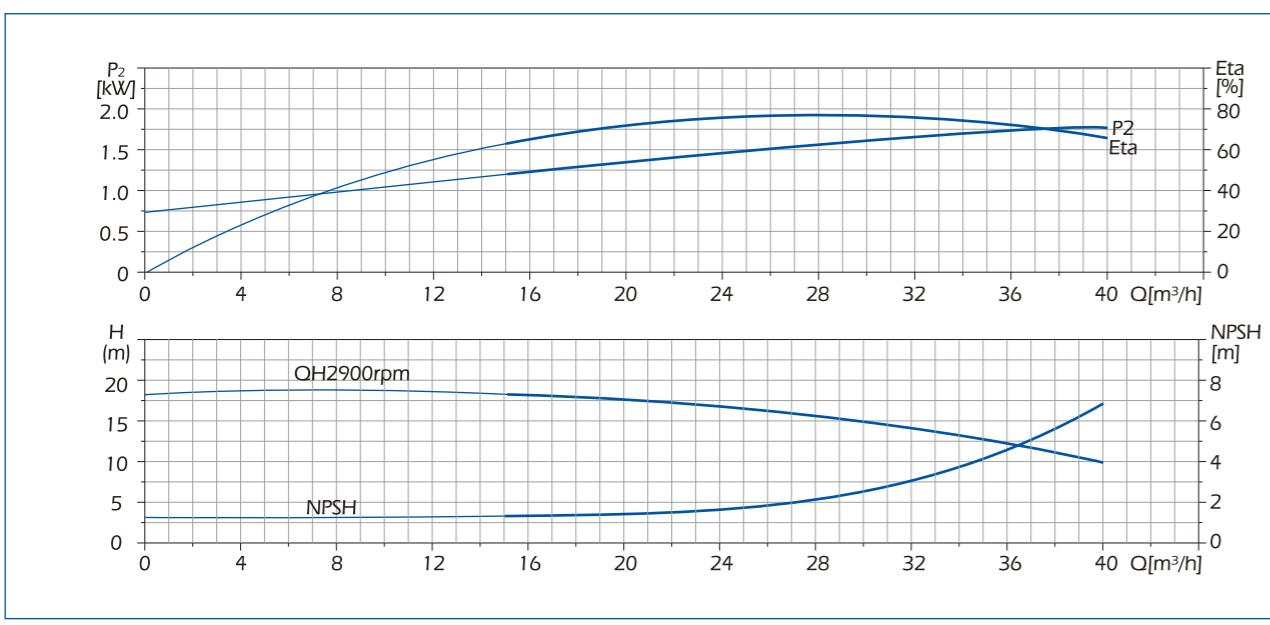
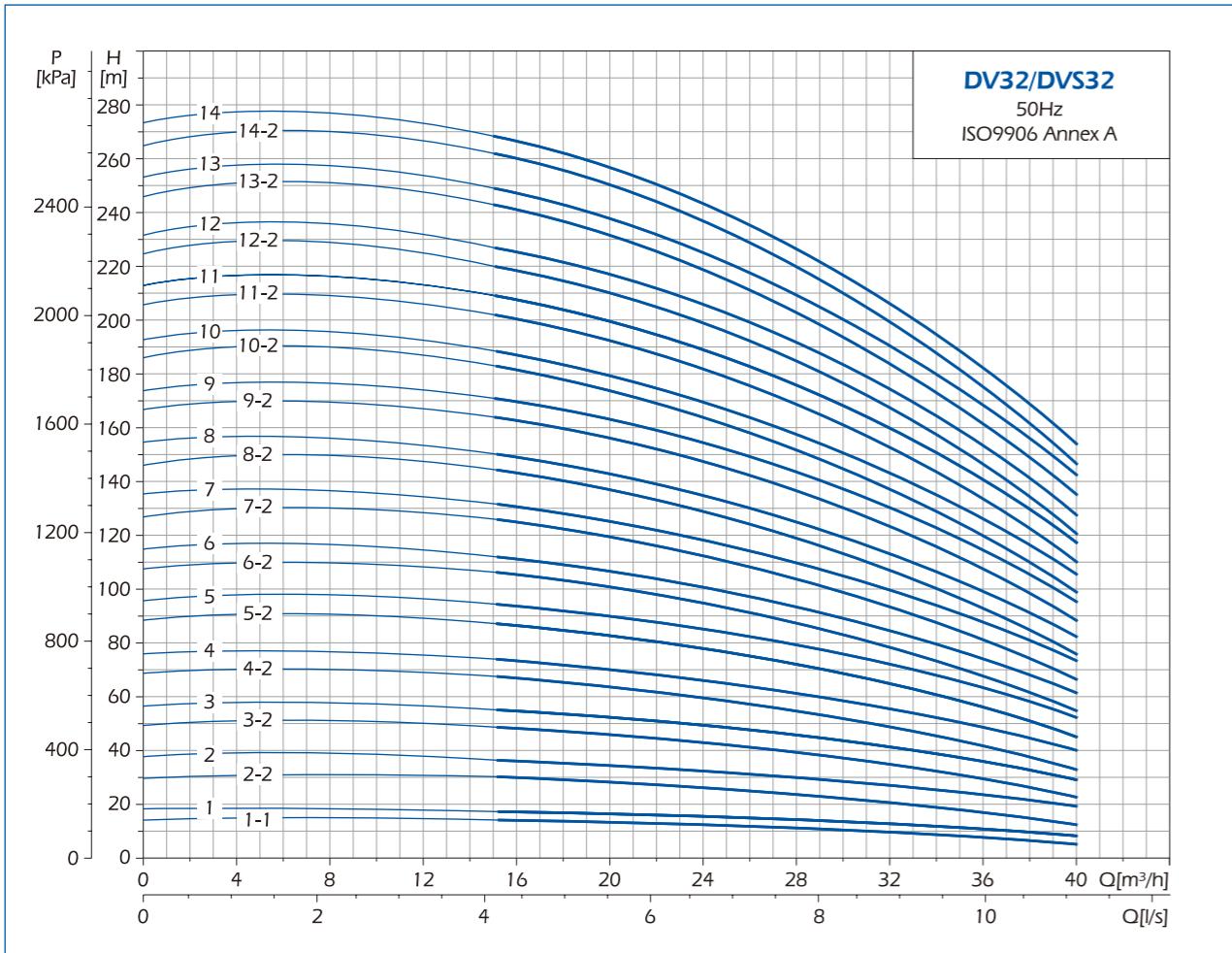


DIMENSION DRAWING

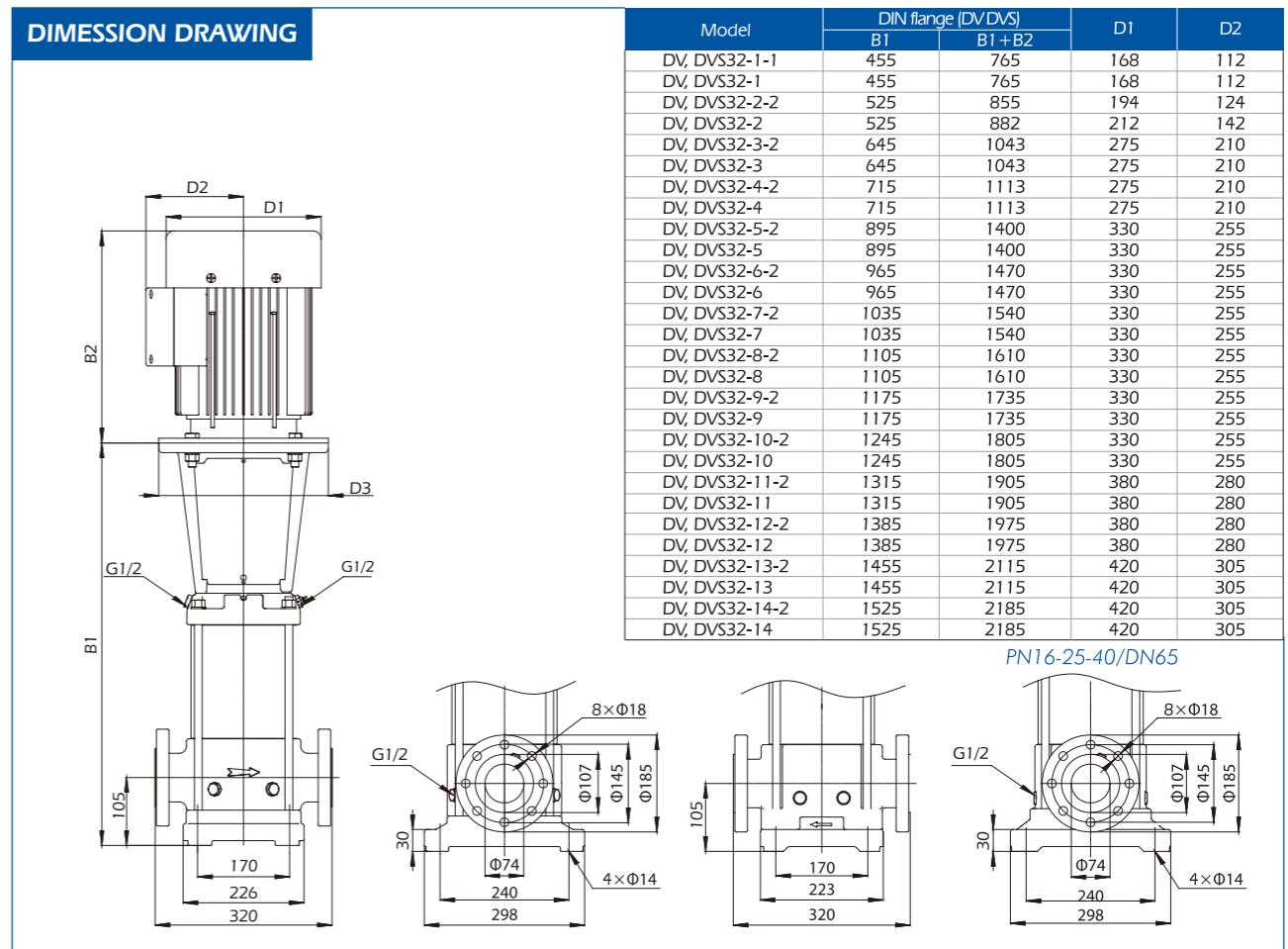


Model	Power (kW)	Q[m³/h]	4	8	12	16	20	24	28
DV, DVS, DVL20-1	1.1	13	13	13	12	10.5	9	6.5	
DV, DVS, DVL20-2	2.2	28	28	27	25	22.5	19	15	
DV, DVS, DVL20-3	4.0	43	43	42	39	36	30	23	
DV, DVS, DVL20-4	5.5	58	57	56	53	48	41	32	
DV, DVS, DVL20-5	5.5	73	72	70	66	60	52	40	
DV, DVS, DVL20-6	7.5	87	83	84	80	72	62	49	
DV, DVS, DVL20-7	7.5	102	100	97	93	84	72	57	
DV, DVS, DVL20-8	11.0	117	116	113	107	96	85	67	
DV, DVS, DVL20-10	11.0	146	144	140	132	120	105	83	
DV, DVS, DVL20-12	15.0	175	174	169	161	144	127	101	
DV, DVS, DVL20-14	15.0	204	202	197	187	168	147	117	
DV, DVS, DVL20-17	18.5	249	247	241	229	205	181	144	

HYDRAULIC PERFORMANCE CURVES

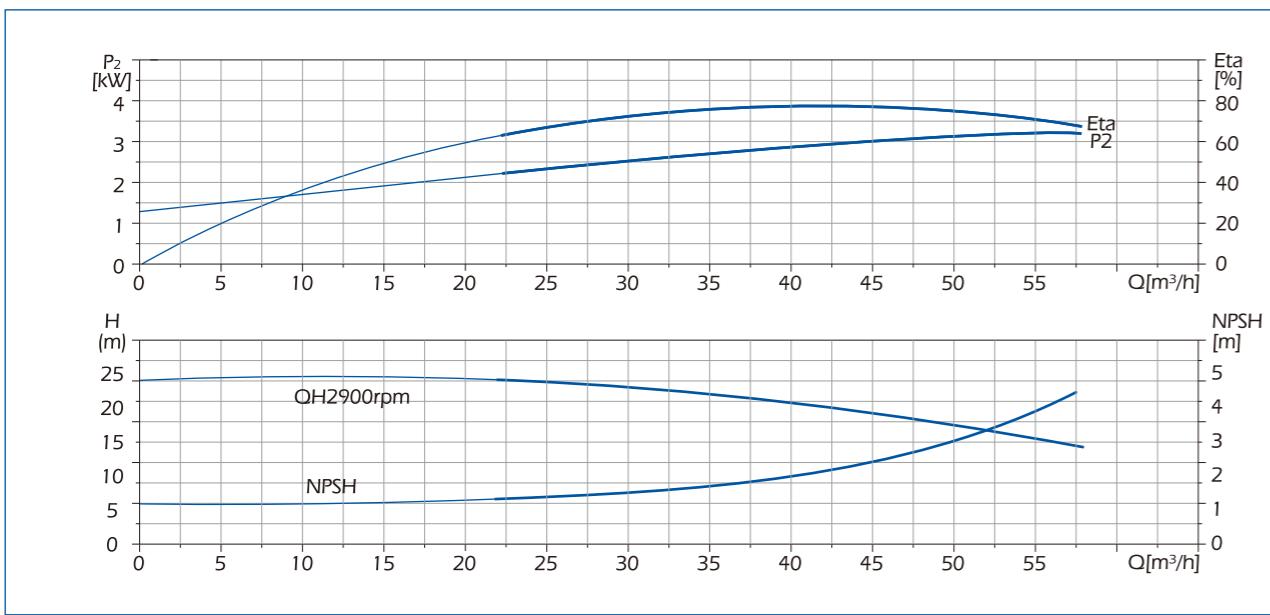
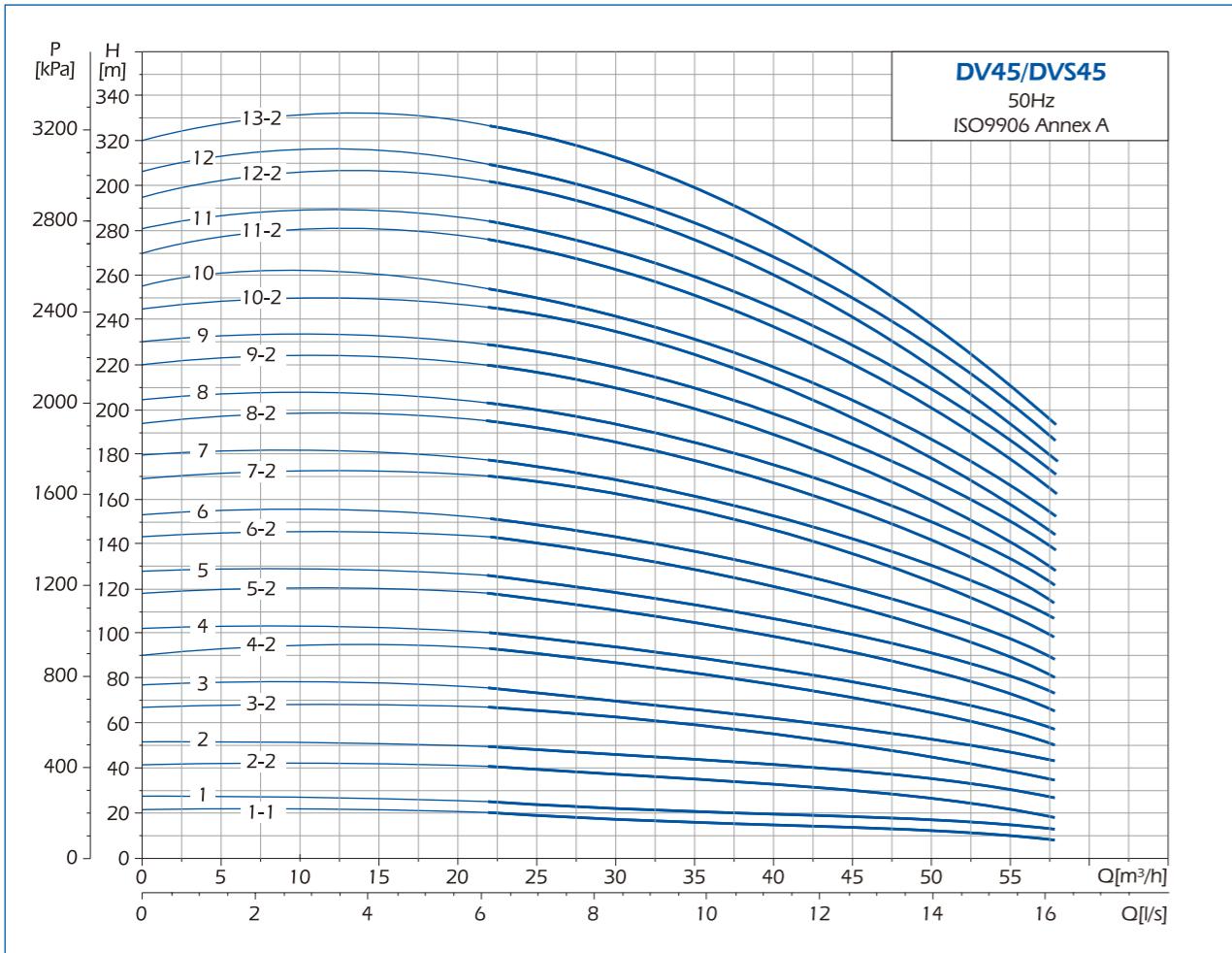


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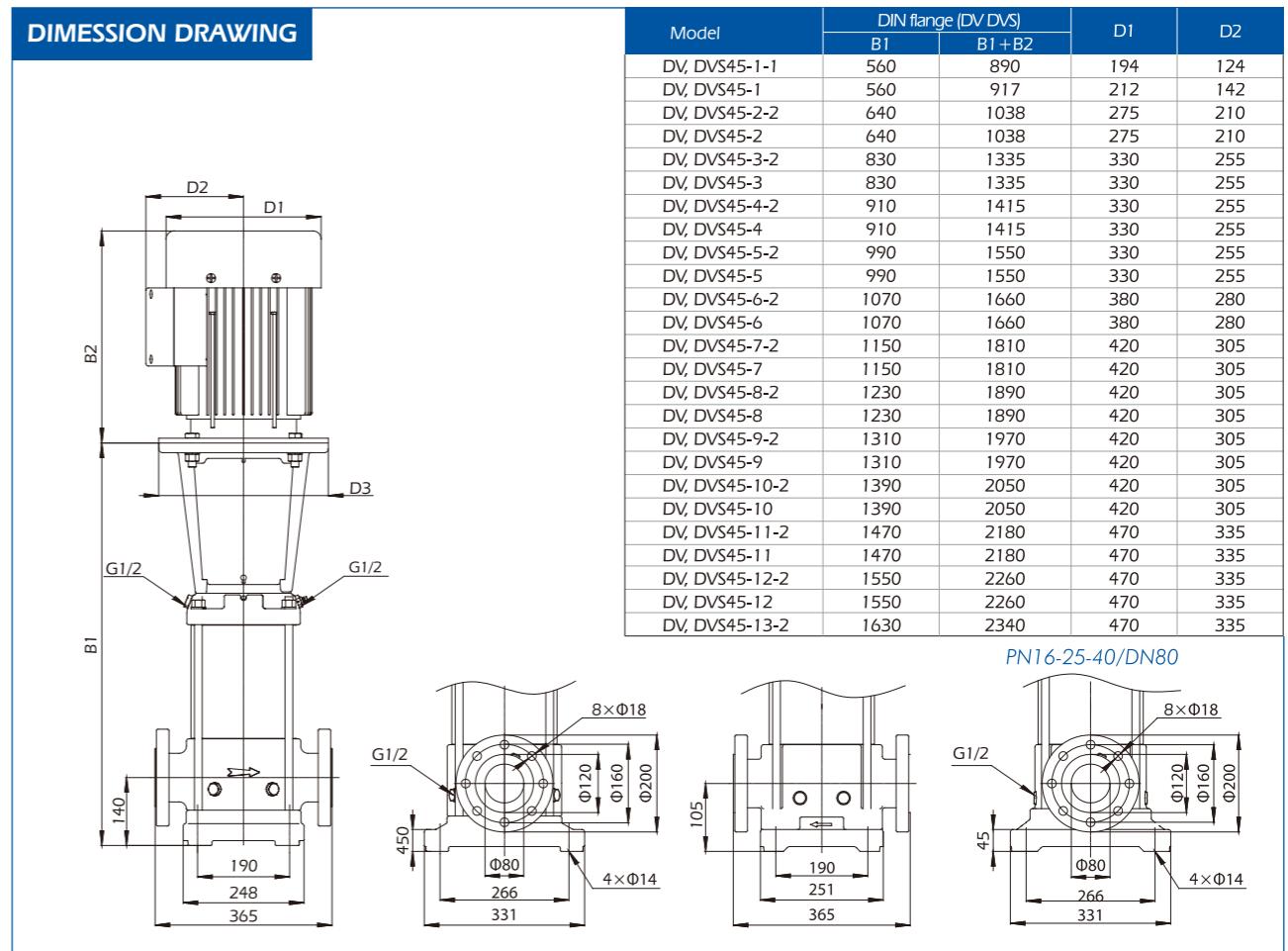


Model	Power (kW)	Q [m³/h]	H(m)					
			15	20	25	32	35	40
DV, DVS32-1-1	1.5	15	15	14	13	10	8	5
DV, DVS32-1	2.2	18	18	17	16	13	11.5	9
DV, DVS32-2-2	3.0	31	29.5	26.5	20.5	17.5	12	
DV, DVS32-2	4.0	37	35.5	32.5	27.5	25	19.5	
DV, DVS32-3-2	5.5	50	47	43.5	35.5	31	22.5	
DV, DVS32-3	5.5	55.5	53	49	41.5	37.5	29.5	
DV, DVS32-4-2	7.5	68.5	65	60	49.5	44	32.5	
DV, DVS32-4	7.5	74.5	70.5	66	56	50.5	40	
DV, DVS32-5-2	11	88.5	84.5	78	65.5	58.5	45	
DV, DVS32-5	11	94.5	90	94	72	65	52	
DV, DVS32-6-2	11	107	102	94.5	79.5	71	55	
DV, DVS32-6	11	113	108	100	85.5	77.5	61.5	
DV, DVS32-7-2	15	127	121	112	94.5	85	66.5	
DV, DVS32-7	15	133	126	118	101	92	73.5	
DV, DVS32-8-2	15	145	138	128	108	98	76.5	
DV, DVS32-8	15	151	144	134	115	104	83	
DV, DVS32-9-2	18.5	165	158	147	124	112	88.5	
DV, DVS32-9	18.5	171	163	152	131	119	95.5	
DV, DVS32-10-2	18.5	184	175	163	138	125	98.5	
DV, DVS32-10	18.5	190	181	169	145	133	106	
DV, DVS32-11-2	22	203	194	181	154	140	111	
DV, DVS32-11	22	209	200	187	161	147	118	
DV, DVS32-12-2	22	222	212	197	168	152	121	
DV, DVS32-12	22	227	217	203	176	160	128	
DV, DVS32-13-2	30	244	233	218	187	169	136	
DV, DVS32-13	30	250	239	224	193	177	145	
DV, DVS32-14-2	30	263	251	234	201	183	146	
DV, DVS32-14	30	269	258	241	207	188	156	

HYDRAULIC PERFORMANCE CURVES

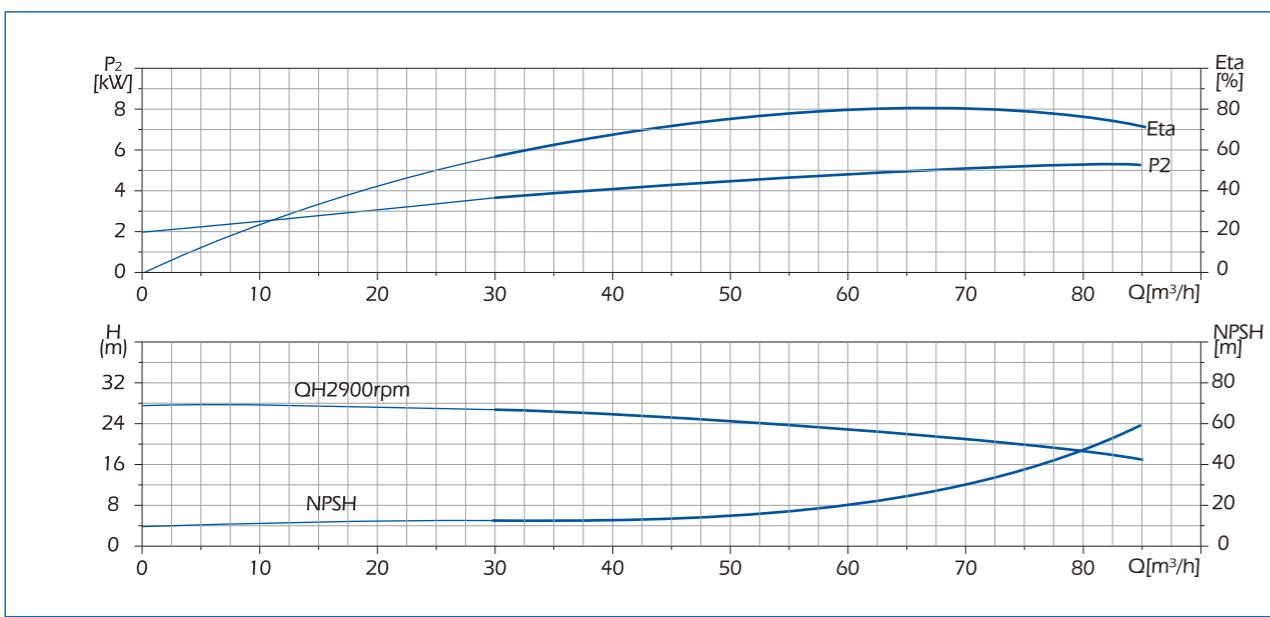
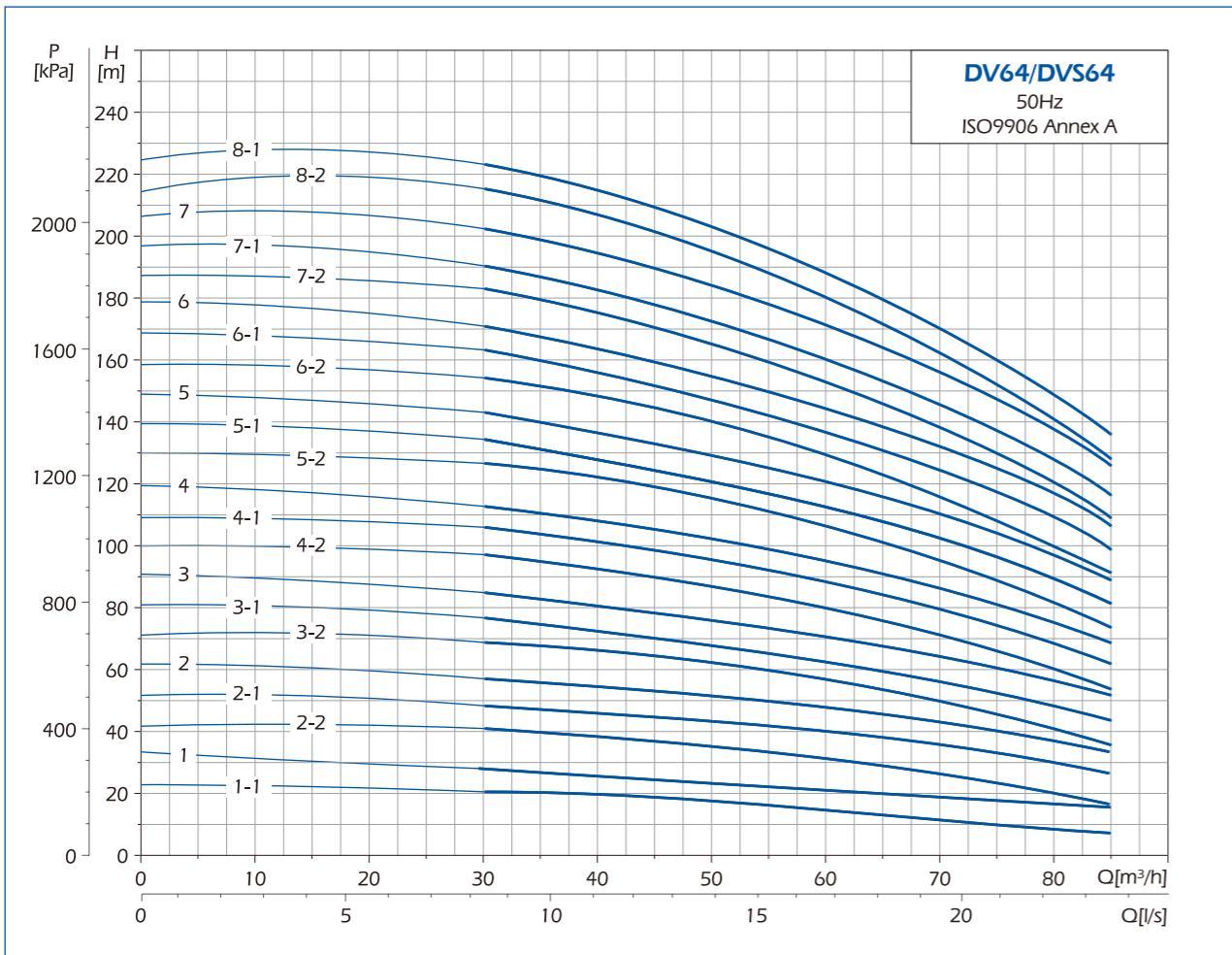


DIMENSION DRAWING

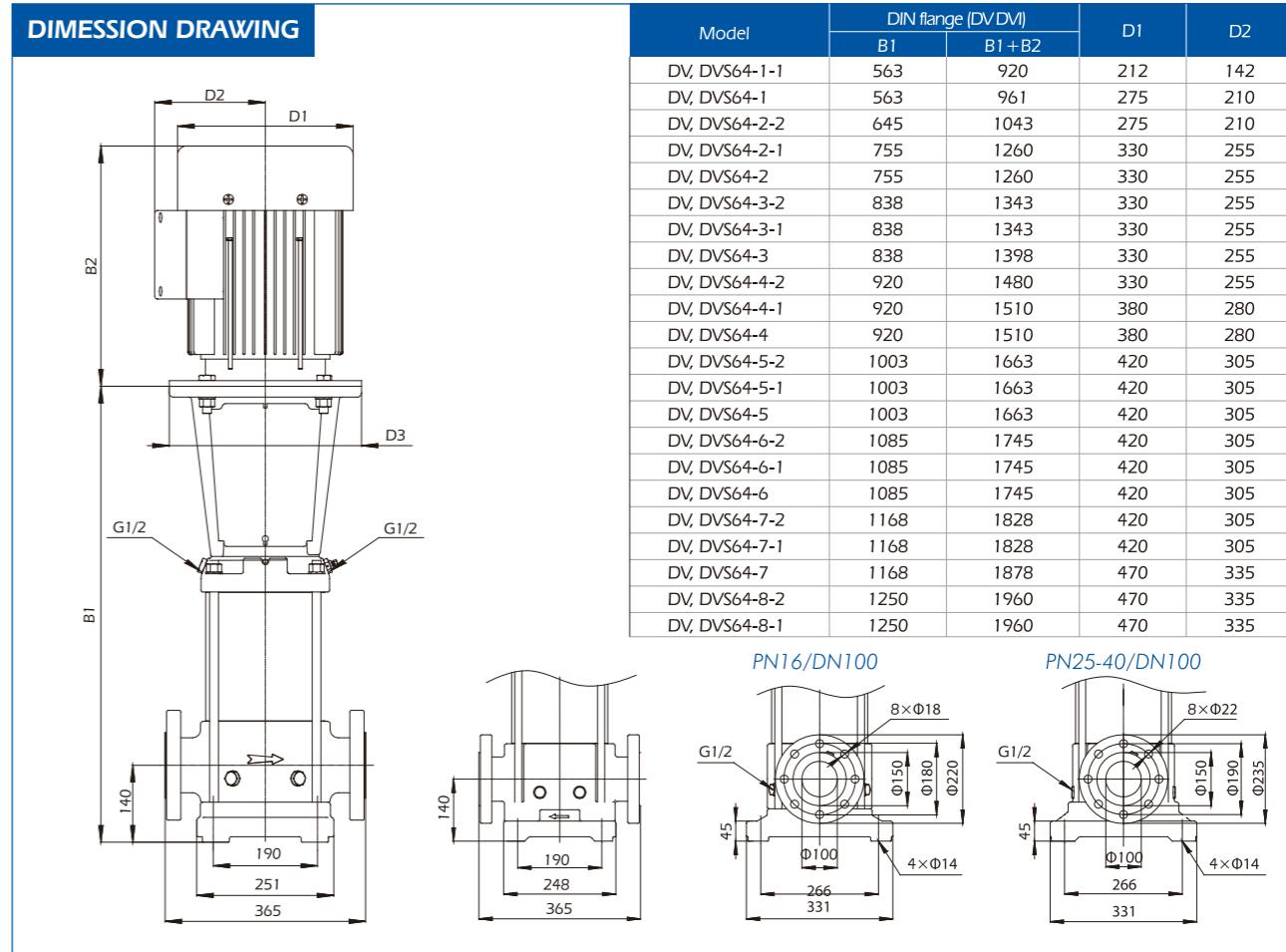


Model	Power (kW)	Q[m³/h]	DIN flange (DV DVS)									
			B1	B1+B2	D1	D2	25	30	35	40	45	50
DV, DVS45-1-1	3.0	20	19.5	18	17	15	12.5	10.5				
DV, DVS45-1	4.0	24	23	22	20.5	19	17.5	15				
DV, DVS45-2-2	5.5	41	39	37	34	30.5	26.5	22				
DV, DVS45-2	7.5	48.5	46.5	44.5	42	39	35	31				
DV, DVS45-3-2	11	66	64	61	56.5	52	46	40				
DV, DVS45-3	11	73.5	71	68	64	59.5	54	47.5				
DV, DVS45-4-2	15	91	88	84	78.5	72	64.5	56				
DV, DVS45-4	15	98.5	95	91	85.5	79.5	72.5	64				
DV, DVS45-5-2	18.5	116	113	107	101	92.5	83.5	73				
DV, DVS45-5	18.5	124	120	115	108	100	91.5	81				
DV, DVS45-6-2	22	142	137	131	122	113	103	90				
DV, DVS45-6	22	149	144	138	130	121	111	98				
DV, DVS45-7-2	30	168	163	156	147	135	123	109				
DV, DVS45-7	30	176	171	163	156	144	132	116				
DV, DVS45-8-2	30	193	187	179	168	155	142	126				
DV, DVS45-8	30	200	194	187	176	164	149	134				
DV, DVS45-9-2	30	217	211	202	189	175	159	142				
DV, DVS45-9	30	226	219	210	199	185	170	151				
DV, DVS45-10-2	37	243	236	225	212	196	179	159				
DV, DVS45-10	37	251	243	233	220	205	187	166				
DV, DVS45-11-2	45	273	264	253	238	222	201	179				
DV, DVS45-11	45	281	272	261	246	230	209	187				
DV, DVS45-12-2	45	298	289	276	261	242	220	195				
DV, DVS45-12	45	306	296	284	268	251	229	204				
DV, DVS45-13-2	45	323	313	300	283	263	239	212				

HYDRAULIC PERFORMANCE CURVES

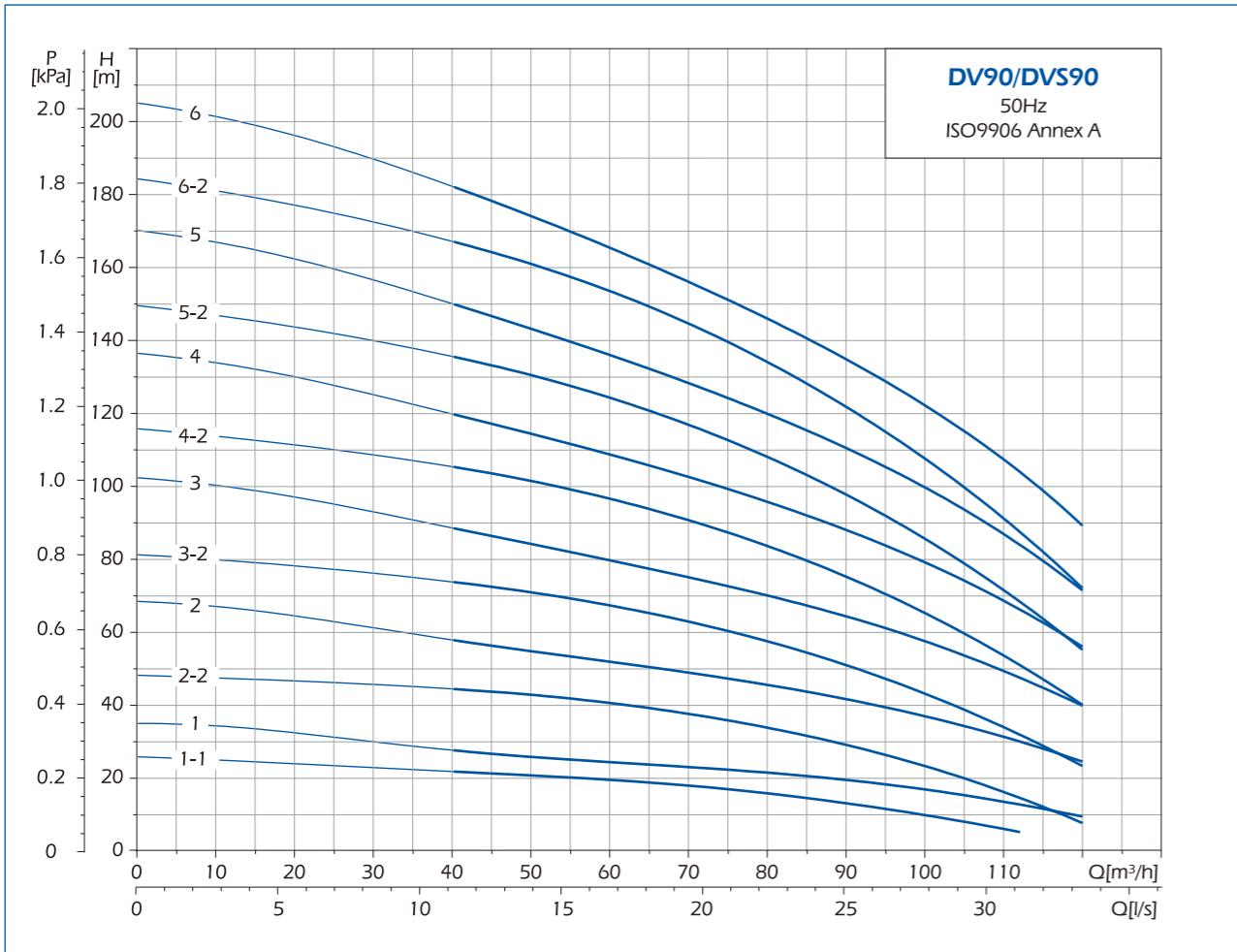


DIMENSION DRAWING

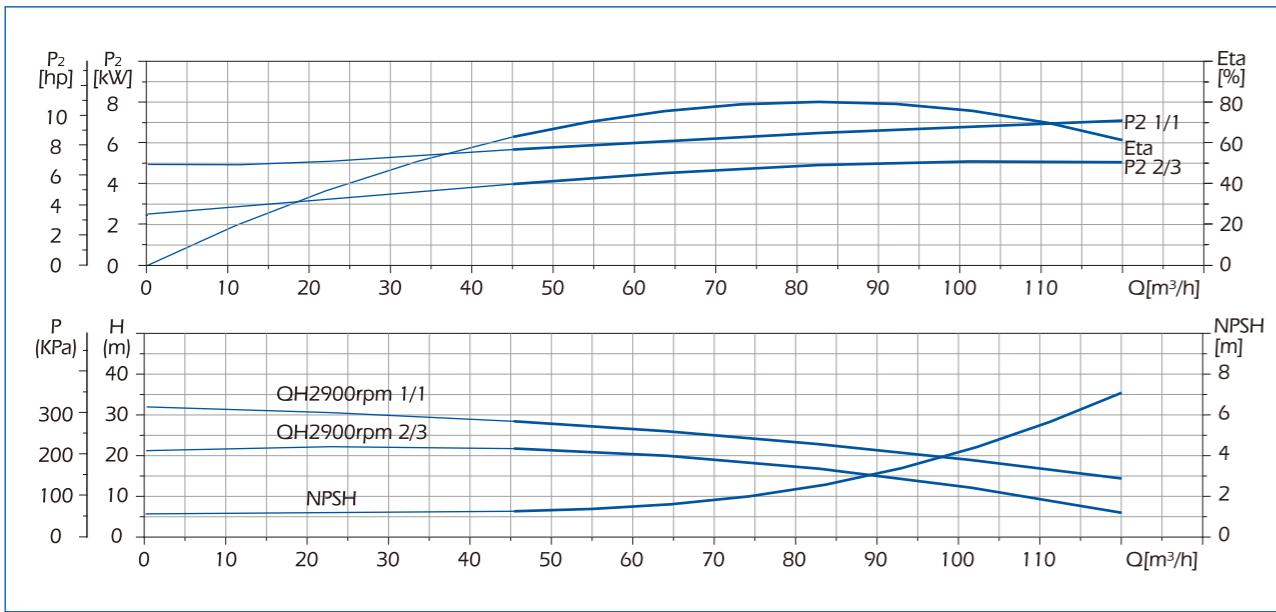
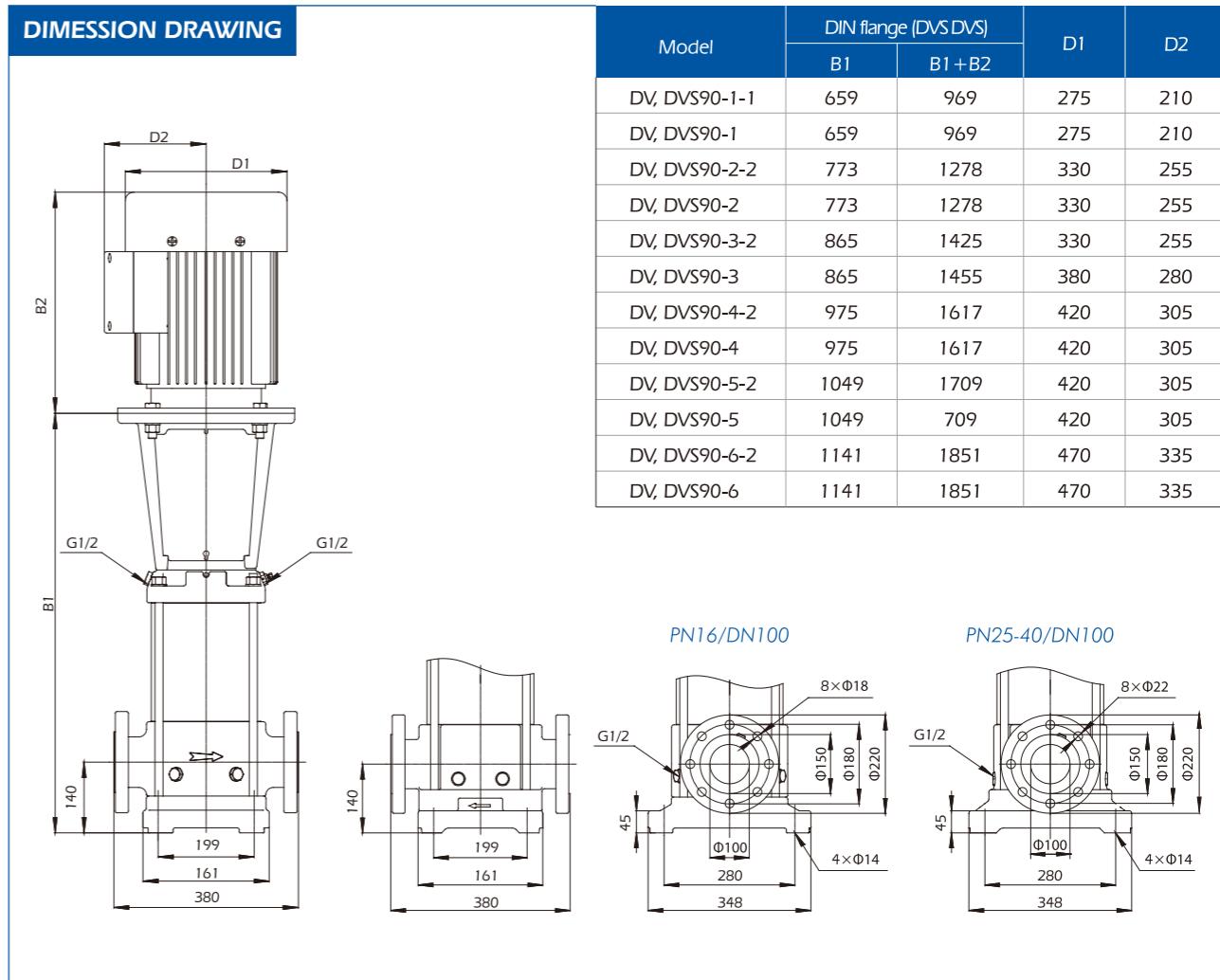


Model	Power (kW)	Q[m³/h]	H(m)					
			30	40	50	64	70	80
DV, DVS64-1-1	4	20	19	17.5	14	12	8.5	
DV, DVS64-1	5.5	27	25.5	23.5	21	20	17	
DV, DVS64-2-2	7.5	40	38	35.5	29	25.5	19	
DV, DVS64-2-1	11	48	45.5	42.5	37	34.5	29	
DV, DVS64-2	11	55	52.5	49.5	44	41.5	36	
DV, DVS64-3-2	15	68	65.5	60	52.5	48.5	40	
DV, DVS64-3-1	15	75.5	72	67.5	59.5	55.5	47	
DV, DVS64-3	18.5	83.5	80	76	68	64	56	
DV, DVS64-4-2	18.5	96	92.5	87	75.5	70	59	
DV, DVS64-4-1	22	104	100	94.5	83.5	78.5	67.5	
DV, DVS64-4	22	112	107	102	91	85.5	74.5	
DV, DVS64-5-2	30	126	122	115	101	94	80.5	
DV, DVS64-5-1	30	134	129	122	109	102	88	
DV, DVS64-5	30	141	136	129	116	109	96	
DV, DVS64-6-2	30	154	148	140	124	115	99	
DV, DVS64-6-1	37	162	156	148	132	124	108	
DV, DVS64-6	37	170	163	155	139	131	116	
DV, DVS64-7-2	37	182	176	166	147	138	119	
DV, DVS64-7-1	37	190	183	173	155	145	126	
DV, DVS64-7	45	202	194	184	165	155	136	
DV, DVS64-8-2	45	214	207	196	174	163	140	
DV, DVS64-8-1	45	222	214	203	181	170	148	

HYDRAULIC PERFORMANCE CURVES



DIMENSION DRAWING



Model	Power (kW)	Q[m³/h]	H(m)							
			50	60	70	80	90	100	110	
DV, DVS90-1-1	5.5		21	20	18	16	14	10.5	6.5	
DV, DVS90-1	7.5		26	25	23.5	22	20	17.5	14	
DV, DVS90-2-2	11		43	41	38	34.5	29.5	24	17	
DV, DVS90-2	15		55	52	49	46	42	37.5	31.5	
DV, DVS90-3-2	18.5		71.5	68	63.5	58	51	44	35	
DV, DVS90-3	22		84.5	80	75.5	70.5	64	58.5	50.5	
DV, DVS90-4-2	30		102	97	91	84.5	75	65.5	54	
DV, DVS90-4	30		114	109	103	96	87.5	79.5	69.5	
DV, DVS90-5-2	37		131	125	118	109	97	86.5	72	
DV, DVS90-5	37		144	136	129	121	109.5	101	87	
DV, DVS90-6-2	45		161	154	145	135	121	108	91.5	
DV, DVS90-6	45		175	166	156	146	133	123	108	