

TIGERFLOW TVI SERIES
VERTICAL INLINE
CIRCULATION PUMPS



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TIGERFLOW TVI SERIES

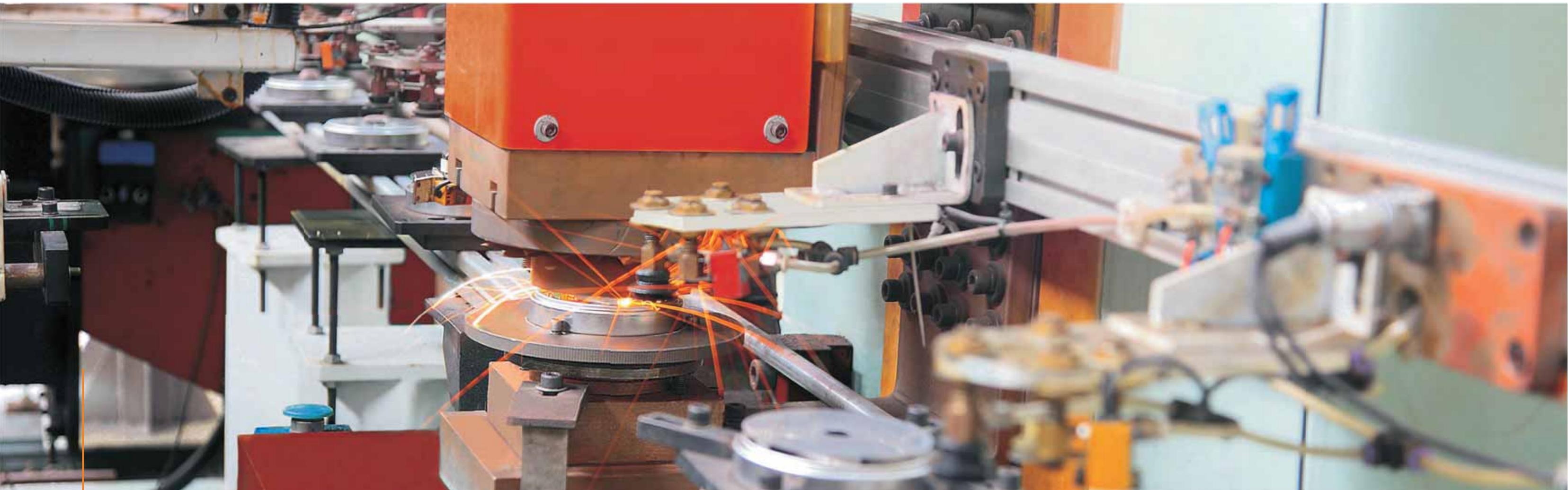
VERTICAL INLINE
CIRCULATION PUMPS

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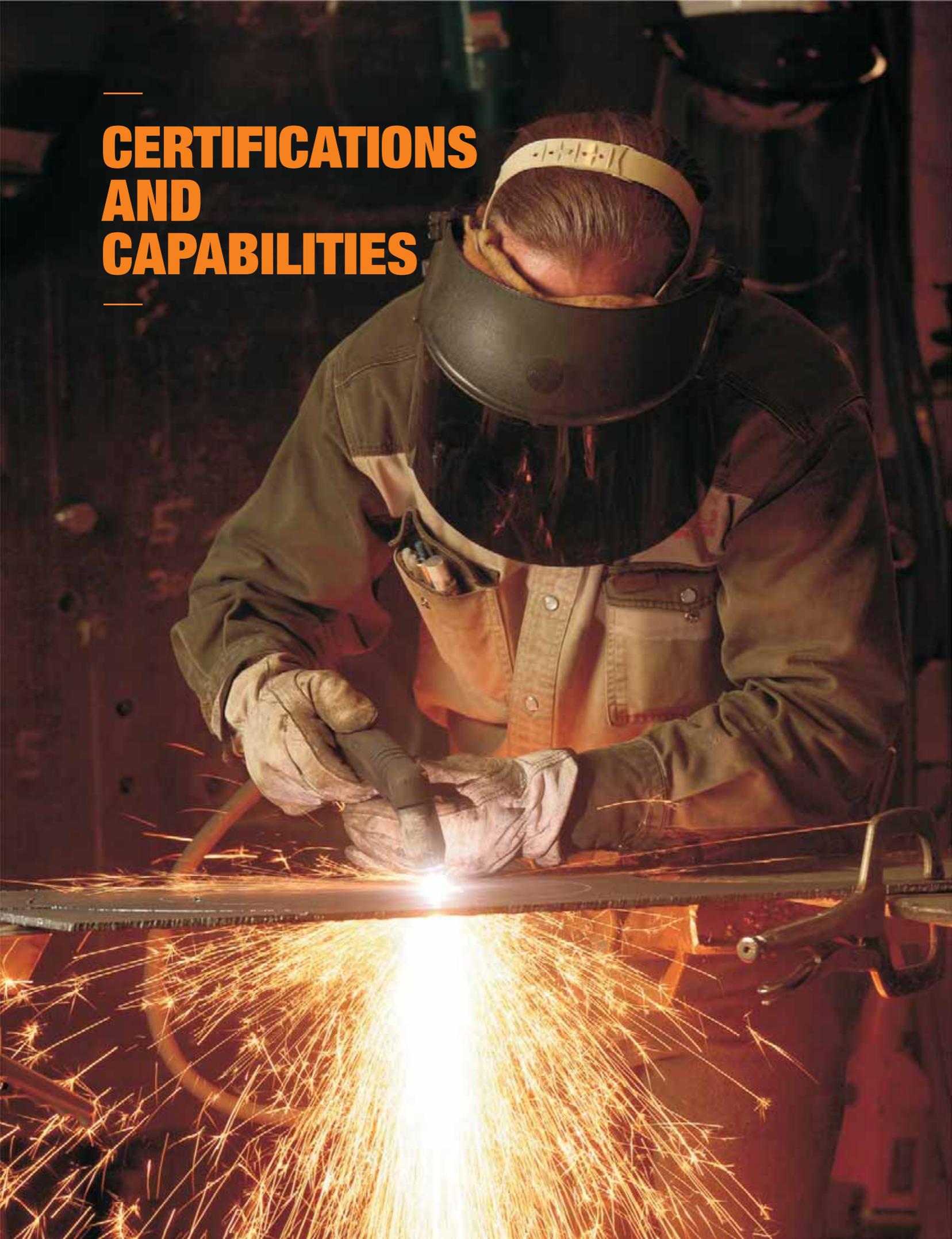


TIGERFLOW PUMPS

Located in Dallas, TIGERFLOW has been designing and manufacturing pumping equipment for more than 35 years. Known for the ability to provide the greatest quality products with passion for customer service and innovation, TIGERFLOW strives to provide engineered pumping solutions to the world.

TIGERFLOW pumps are designed and built with the highest quality standards, including high-efficiency designs for the continuously improving energy-efficient buildings and plants. They are suitable for use in a wide variety of industries like commercial, industrial, pharmaceutical, water and wastewater among many others.

CERTIFICATIONS AND CAPABILITIES



• Manufacturing Plant

- 88,000 square feet manufacturing facility
- Seven manufacturing work centers, including welding, assembly, control panel shop, electrical installation, painting, and testing
- AWS and ASME Certified structural and pipe welders
- NIST Traceable testing facility
- UL 508A Certified control panel shop
- In-house degreed and professional engineers for mechanical, electrical and software design

• Certifications

- ISO 9001: 2015 certified facility
- Certificate of product liability insurance
- ETL/C-ETL Listed packaged fire pump systems
- NFPA 20 certified engineers and designers
- UL/ C-UL listed packaged pumping system label "QCZJ"
- UL FDNP.MH61218 Drinking Water System Components NSF-61
- UL FDNP7.MH61218 Drinking Water System Components Certified for Canada NSF-61
- UL QNVB.MH61218 Lead Content Verification of Products in Contact with Potable Water NSF-372
- UL QNVB7.MH61218 Lead Content Verification of Products in Contact with Potable Water Certified for Canada NSF-372
- IAMPO 6940 California low lead AB1953/116875
- UL/C-UL 508/918 industrial control panel facility
- Pipe welders certified to ASME Section IX
- Structural welders certified per AWS D1.1
- CMR 248 Massachusetts Plumbing Code Approval #P3-0204-58
- State of Ohio Industrialized Buildings Authorization #308.02
- State of Washington, Dept. of Labor & Industries Approval



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TIGERFLOW TVI SERIES
VERTICAL INLINE CIRCULATION PUMPS

GENERAL DATA

TIGERFLOW TVI SERIES VERTICAL INLINE CIRCULATION PUMPS

● Product Information

The TVI Series pump is a single-stage, in-line centrifugal pump designed for use in a wide variety of water distribution applications like HVAC, municipal, water treatment, etc.

The pump uses a pull-out top assembly that allows for seal replacement and other maintenance functions to be performed with the pump installed in place.

The mechanical seal for the TVI200 and above are of the cartridge style, which can be disassembled easily without removing the motor.

● Model Key, TVI

TVI 65 - 24 G / 2

- Pole of the motor
- New generation
- Rated head (m)
- DN of the inlet & outlet
- TIGERFLOW in-line circulation pumps

GENERAL DATA**GENERAL DATA****● Applications**

The TVI Pumps are suitable for use in the following applications:

- HVAC Circulation
- Pipe Systems Pressurization
- Water Delivery
- Hot Water Circulation
- Raw Water Intake
- Boiler Water Supply
- Water treatment
- Municipal Water
- Distribution
- Agricultural



GENERAL DATA

● Pump Features

The TVI pump is a single-stage, single-suction centrifugal pump designed for reliable quality, silent operation, a wide range of high-efficiency operating conditions, low NPSH_r values, and easy installation and service.

The pumps have a pull-out top that allows for maintenance to be performed in-place and use a cartridge style seal that can be replaced completely by a single person without the need of special tools. The pump can be used in a wide range of flow rates, providing efficiency, performance, and smooth operation through a long service life of the equipment.

① Shaft

The pump shaft is a stainless-steel integrated cylinder, that provides hydraulic balance, extending the life of the pump.

- Stable mechanical structure
- Reduced vibration levels
- Extended bearing life

The models TVI150 and above utilizes a sleeved pump shaft design, that is shorter in length providing a lower total height of the pump and the transmission distance. This also reduces the cantilever deflection and reduces the overall weight and cost.

**② Coupling and Mechanical Seal**

The pump and motor shaft extension in the TVI200 models and above, implements a clamp-on cooling locking structure, composed of a two-piece, inelastic sintered cast steel coupling. The coupling is secured using six hexagon socket head screws. The coupling is manufactured through a die-casting process and a high-accuracy dynamic balancing.

The mechanical seals provided as standard are of the silicon carbide/carbon with EPDM elastomer (BUBE). The silicon carbide/carbon mechanical seal provides a high material hardness, low specific gravity, low friction coefficient and is self-lubricating.

Other materials can be used, such as tungsten carbide, carbon graphite, etc. for applications where the seal is subjected to other operating design.

The rubber material can also be selected using a NBR or FKM materials based on the working conditions.

The cartridge seal is very easy to disassemble providing value and savings to the service and maintenance of the pumps.



GENERAL DATA

GENERAL DATA

③ Bearing Ring

The TVI200 and above models, are equipped with replaceable bearing rings made of cemented carbide. The cemented carbide material has a high level of hardness, bending strength, thermal conductivity and expansion strength. Silicon carbide and carbon graphite can be used to help increase efficiency and reduce long-term wear.

④ Motor

The motors used in the TVI series pumps are TEFC NEMA Standard Motors.

- TEFC 2-Pole/4-Pole
- NEMA 4 Enclosure Rating
- Class F Insulation
- 208-230 VAC, 1φ, 60Hz; 208-230/460 VAC, 3φ, 60Hz
- T, TC, and C Frame Types

⑤ Pump

The pump housing is manufactured with cast iron and utilizes standard ANSI Flanges.

The suction and discharge centerlines are aligned and the flange sizes identical, which provides for a convenient installation onto existing pipelines.

⑥ Impeller

The pump impeller is made of stainless steel, AISI 304 SS which adopts a brand-new hydraulic design, using balance holes or double-suction impellers to reduce the axial force. Some pump types adopt double volute structure to eliminate the influence of pump radial force. The rotor and impeller components have small axial movement and radial runout to ensure the impeller. The gap of the mouth ring is small and uniform, which reduces the return flow of the balance hole and improves the pump volume efficiency and balance effect. TVI300 and above pumps adopt double suction, which improves the anti-cavitation performance and reduces the axial tension, so that the pump runs smoothly and meets the long-life operation of the equipment.

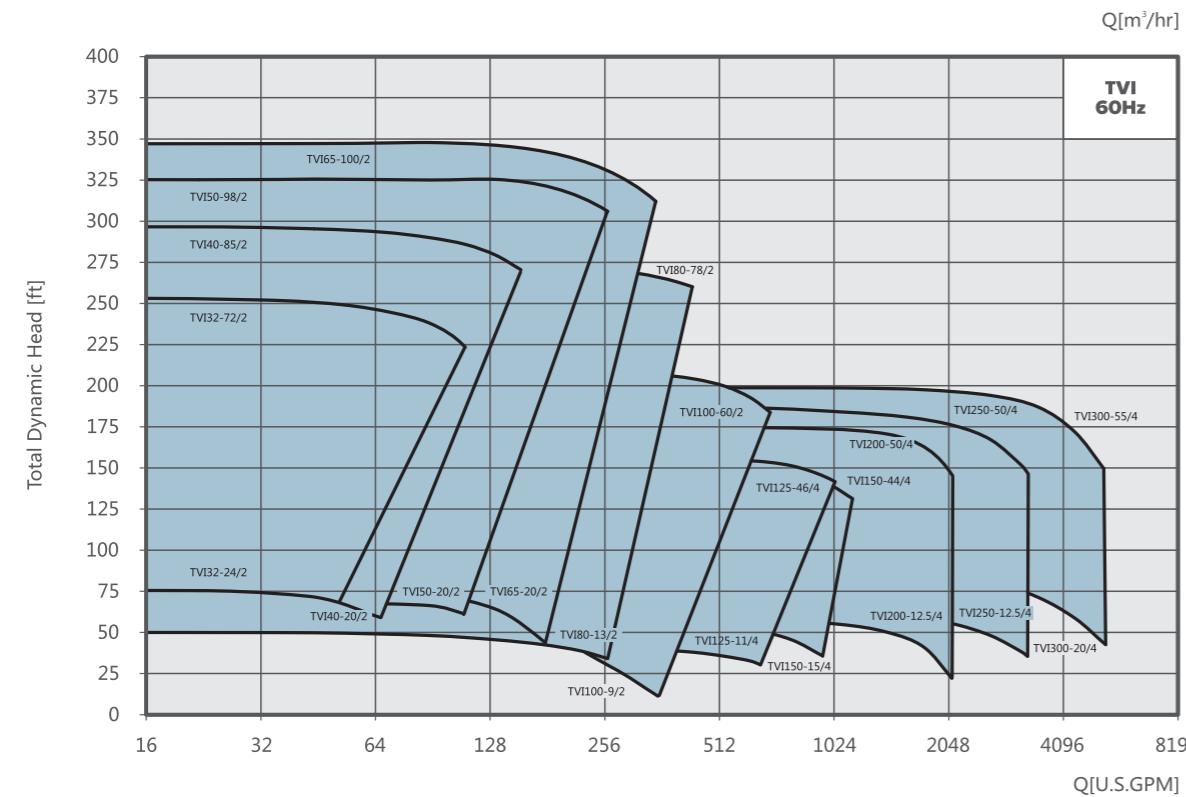
⑦ Surface Treatment

The pump body is electrocoated, which made the surface layer has strong adhesion, long-lasting color and good rust resistance. The paint layer is even and smooth, ensuring that the pump will not be easily worn out for long-term use under various working conditions.

GENERAL DATA

● Product Overview

● Performance Range, TVI



● Product range, TVI

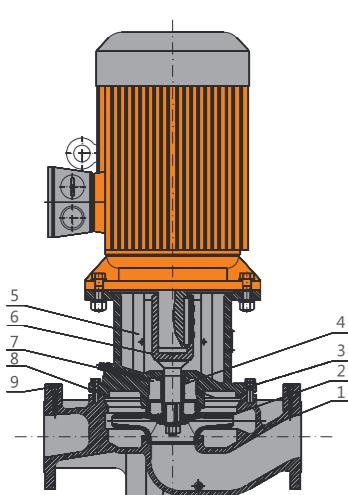
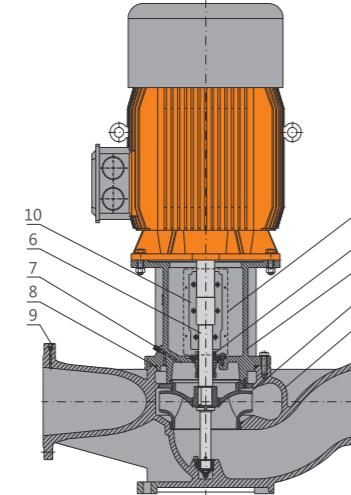
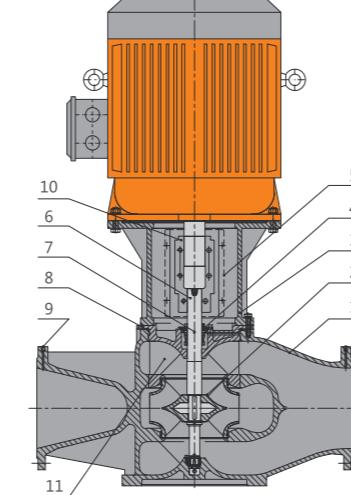
NO.	MODEL	Q (m³/h)	H (m)	N (r/min)	STANDARD VOLTAGE(V)	
					1x220V	3x380V
					P ₂ (kw)	P ₂ (kw)
1	TVI32-24/2	7	24	3500	1.5	1.5
2	TVI32-27/2	10	27		2.2	2.2
3	TVI32-30/2	15	30			3
4	TVI32-38/2	15	38			4
5	TVI32-46/2	15	46			5.5
6	TVI32-57/2	20	57			7.5
7	TVI32-72/2	20	72			11
8	TVI40-20/2	12	20			1.5
9	TVI40-24/2	15	24			2.2
10	TVI40-28/2	15	28			3
11	TVI40-32/2	20	32			4

NO.	MODEL	Q (m³/h)	H (m)	N (r/min)	STANDARD VOLTAGE(V)	
					1x220V	3x380V
					P ₂ (kw)	P ₂ (kw)
12	TVI40-35/2	25	35	3500		5.5
13	TVI40-42/2	25	42			7.5
14	TVI40-65/2	25	65			11
15	TVI40-76/2	25	76			15
16	TVI40-85/2	30	85			18.5
17	TVI50-20/2	20	20			2.2
18	TVI50-27/2	20	27			3
19	TVI50-34/2	20	34			4
20	TVI50-40/2	20	40			5.5
21	TVI50-42/2	30	42			7.5
22	TVI50-51/2	35	51			11

GENERAL DATA

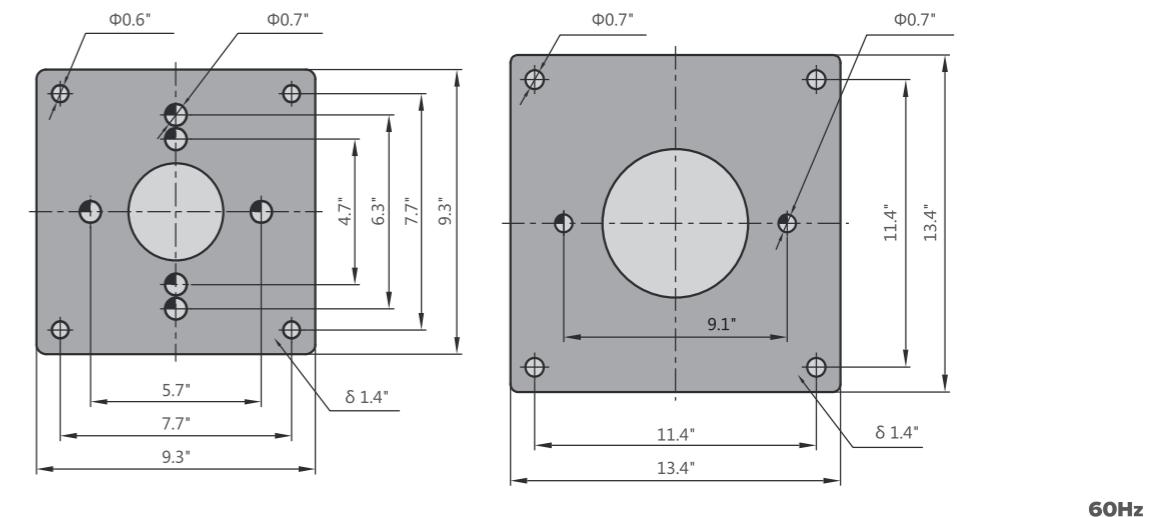
● Product Range, TVI

NO.	MODEL	Q (m³/h)	H (m)	N (r/min)	STANDARD VOLTAGE(V)	
					1x220V	3x380V
					P ₂ (kw)	P ₂ (kw)
23	TVI50-65/2	45	62	3500		15
24	TVI50-72/2	45	72			18.5
25	TVI50-84/2	45	84			22
26	TVI50-98/2	50	98			30
27	TVI65-20/2	30	20			3
28	TVI65-25/2	30	25			4
29	TVI65-32/2	30	32			5.5
30	TVI65-38/2	35	38			7.5
31	TVI65-46/2	35	46			11
32	TVI65-55/2	35	55			15
33	TVI65-60/2	50	60			18.5
34	TVI65-73/2	50	73			22
35	TVI65-85/2	60	85			30
36	TVI65-100/2	60	100			37
37	TVI80-12/2	50	12			3
38	TVI80-17/2	50	17			4
39	TVI80-20/2	60	20			5.5
40	TVI80-26/2	60	26			7.5
41	TVI80-30/2	80	30			11
42	TVI80-38/2	80	38			15
43	TVI80-47/2	80	47			18.5
44	TVI80-52/2	80	52			22
45	TVI80-70/2	80	70			30
46	TVI80-81/2	80	81			37
47	TVI100-11/2	50	11			3
48	TVI100-15/2	60	15			4
49	TVI100-17/2	80	17			5.5
50	TVI100-22/2	80	22			7.5
51	TVI100-25/2	100	25			11
52	TVI100-32/2	100	32			15
53	TVI100-34/2	120	34			18.5
54	TVI100-38/2	120	38			22
55	TVI100-52/2	130	52			30
56	TVI100-60/2	130	60			37

GENERAL DATA**● Sectional Drawing, TVI**TVI32-TVI150
Extension Shaft TypeTVI200-TVI250
Easy-Maintenance TypeTVI300
Easy-Maintenance Type**● Material Specification, TVI**

NO.	Description	Material
1	Pump Body	Cast Iron HT200
2	Impeller	Cast Iron/Stainless Steel HT200/ZG07Cr19Ni9
3	Pump Head	Cast Iron HT200
4	Mechanical Seal	Carbon/Silicon Carbide
5	Guard Plate	Stainless Steel 06Cr19Ni10 (SS304)
6	Shaft	Stainless Steel 20Cr13
7	Air Release Kit	Stainless Steel 06Cr19Ni10 (SS304)
8	O Ring	EPDM
9	Plug	Stainless Steel 06Cr19Ni10 (SS304)

NO.	Description	Material
1	Pump Body	Cast Iron HT200
2	Impeller	Cast Iron/Stainless Steel HT200/ZG07Cr19Ni9
3	Pump Head	Cast Iron HT200
4	Mechanical Seal	Carbon/Silicon Carbide
5	Guard Plate	Stainless Steel 06Cr19Ni10 (SS304)
6	Coupling	Cast Steel ZG270-500
7	Shaft	Stainless Steel 20Cr13
8	Air Release Kit	Stainless Steel 06Cr19Ni10 (SS304)
9	O Ring	EPDM
10	Plug	Stainless Steel 06Cr19Ni10 (SS304)
11	Pump Cover	Ductile Iron QT500-7

GENERAL DATA**● Base Plate**

60Hz

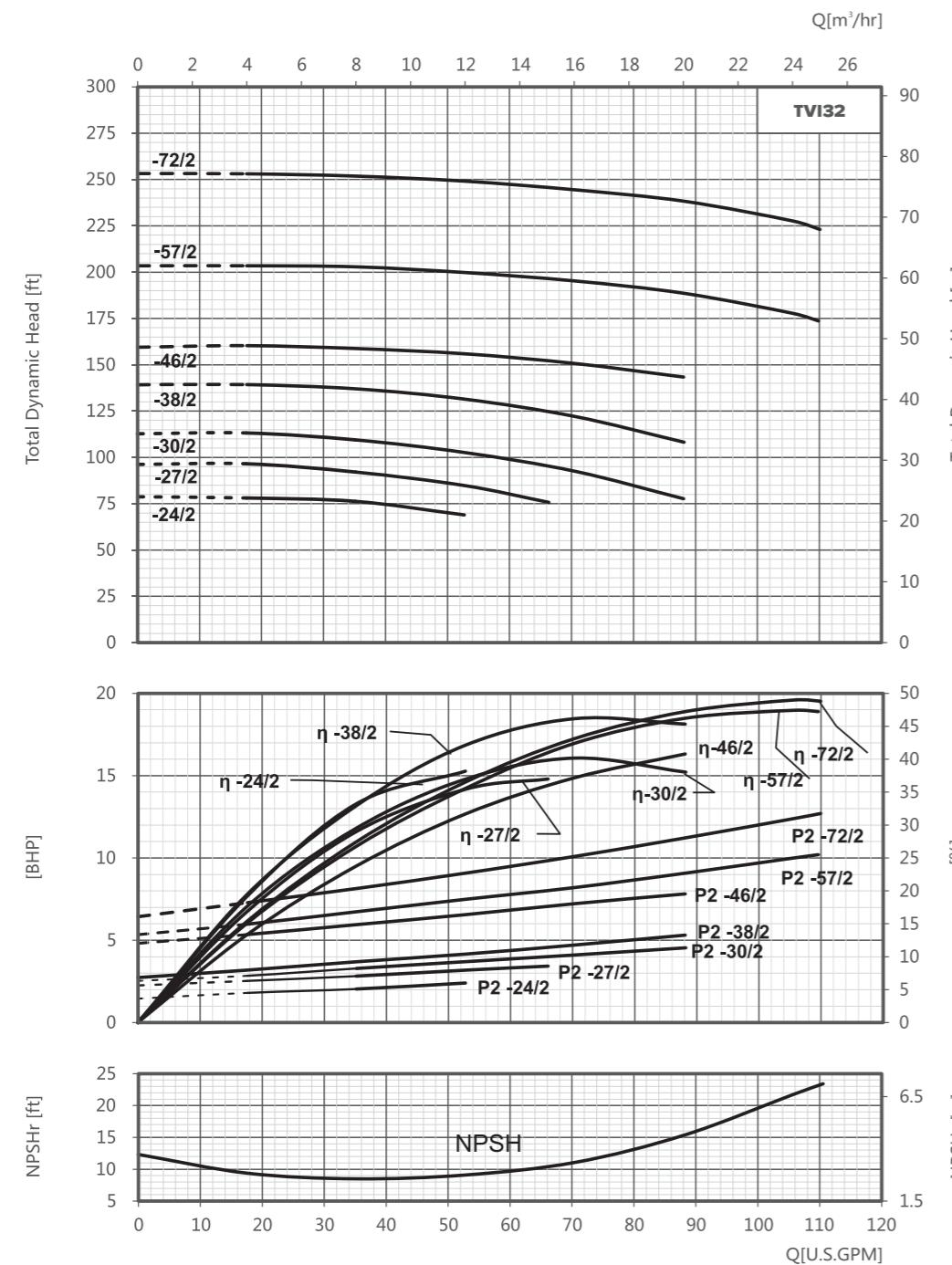
NO.	PRODUCT MODEL	BASE PLATE TYPE	NO.	PRODUCT MODEL	BASE PLATE TYPE	NO.	PRODUCT MODEL	BASE PLATE TYPE
1	TVI32-24/2	A	25	TVI50-84/2	A	49	TVI100-17/2	A
2	TVI32-27/2	A	26	TVI50-98/2	A	50	TVI100-22/2	A
3	TVI32-30/2	A	27	TVI65-20/2	A	51	TVI100-25/2	B
4	TVI32-38/2	A	28	TVI65-25/2	A	52	TVI100-32/2	B
5	TVI32-46/2	A	29	TVI65-32/2	A	53	TVI100-34/2	B
6	TVI32-57/2	A	30	TVI65-38/2	A	54	TVI100-38/2	B
7	TVI32-72/2	A	31	TVI65-46/2	A	55	TVI100-52/2	B
8	TVI40-20/2	A	32	TVI65-55/2	A	56	TVI100-60/2	B
9	TVI40-24/2	A	33	TVI65-60/2	A	57	TVI125-11/4	B
10	TVI40-28/2	A	34	TVI65-73/2	A	58	TVI125-14/4	B
11	TVI40-32/2	A	35	TVI65-85/2	A	59	TVI125-20/4	B
12	TVI40-35/2	A	36	TVI65-100/2	A	60	TVI125-24/4	B
13	TVI40-42/2	A	37	TVI80-12/2	A	61	TVI125-28/4	B
14	TVI40-65/2	A	38	TVI80-17/2	A	62	TVI125-32/4	B
15	TVI40-76/2	A	39	TVI80-20/2	A	63	TVI125-38/4	B
16	TVI40-85/2	A	40	TVI80-26/2	A	64	TVI125-40/4	B
17	TVI50-20/2	A	41	TVI80-30/2	A	65	TVI125-46/4	B
18	TVI50-27/2	A	42	TVI80-38/2	A	66	TVI150-15/4	B
19	TVI50-34/2	A	43	TVI80-47/2	A	67	TVI150-18/4	B
20	TVI50-40/2	A	44	TVI80-52/2	A	68	TVI150-20/4	B
21	TVI50-42/2	A	45	TVI80-70/2	A	69	TVI150-24/4	B
22	TVI50-51/2	A	46	TVI80-81/2	A	70	TVI150-32/4	B
23	TVI50-62/2	A	47	TVI100-11/2	A	71	TVI150-36/4	B
24	TVI50-72/2	A	48	TVI100-15/2	A	72	TVI150-44/4	B

Remark:Base plate is optional part, need to note when order.

TECHNICAL DATA

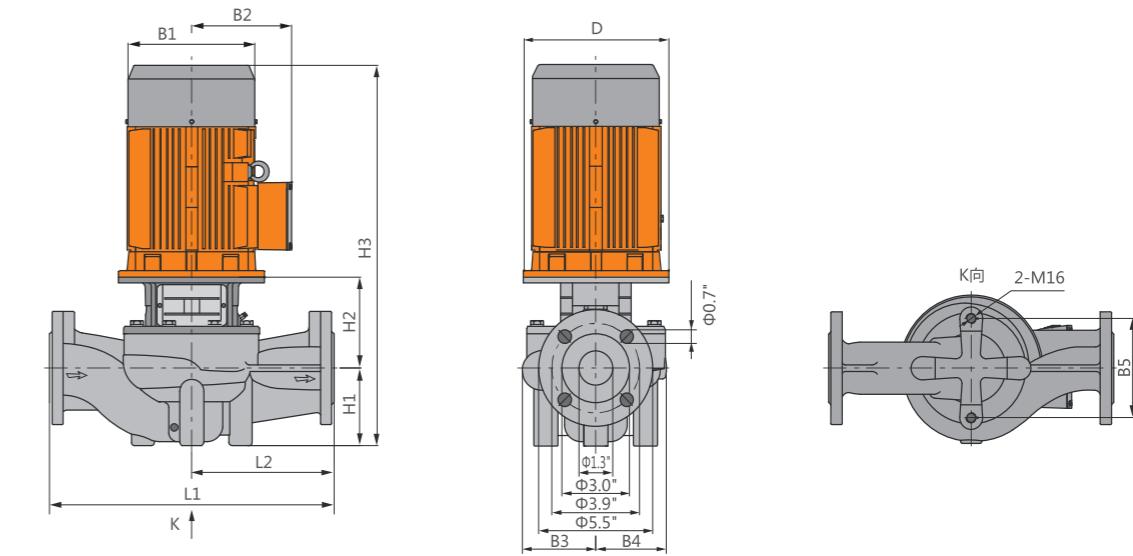
● TVI32.60Hz

Performance Curve



TECHNICAL DATA

● Installation Sketch



● Size and Weight

Model	Size(in)										Weight Lb	
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
TVI32-24/2	5.5	7.5	6.1	4.5	4.5	5.7	3.9	6.5	21.9	13.4	6.7	123.46
TVI32-27/2	5.5	7.5	6.1	4.5	4.5	5.7	3.9	6.5	21.9	13.4	6.7	130.07
TVI32-30/2	6.3	7.8	6.5	4.5	4.5	5.7	3.9	7.3	24.8	13.4	6.7	149.91
TVI32-38/2	6.3	9.1	7.4	5.1	5.1	5.7	3.9	7.3	25.2	17.3	8.7	174.16
TVI32-46/2	7.9	10.2	8.2	5.1	5.1	5.7	3.9	8.4	27.7	17.3	8.7	229.28
TVI32-57/2	7.9	10.2	8.2	5.1	5.1	5.7	3.9	8.4	27.7	17.3	8.7	235.89
TD32-72/2	13.8	13.0	10.0	5.1	5.1	5.7	3.9	10.3	33.9	17.3	8.7	368.17

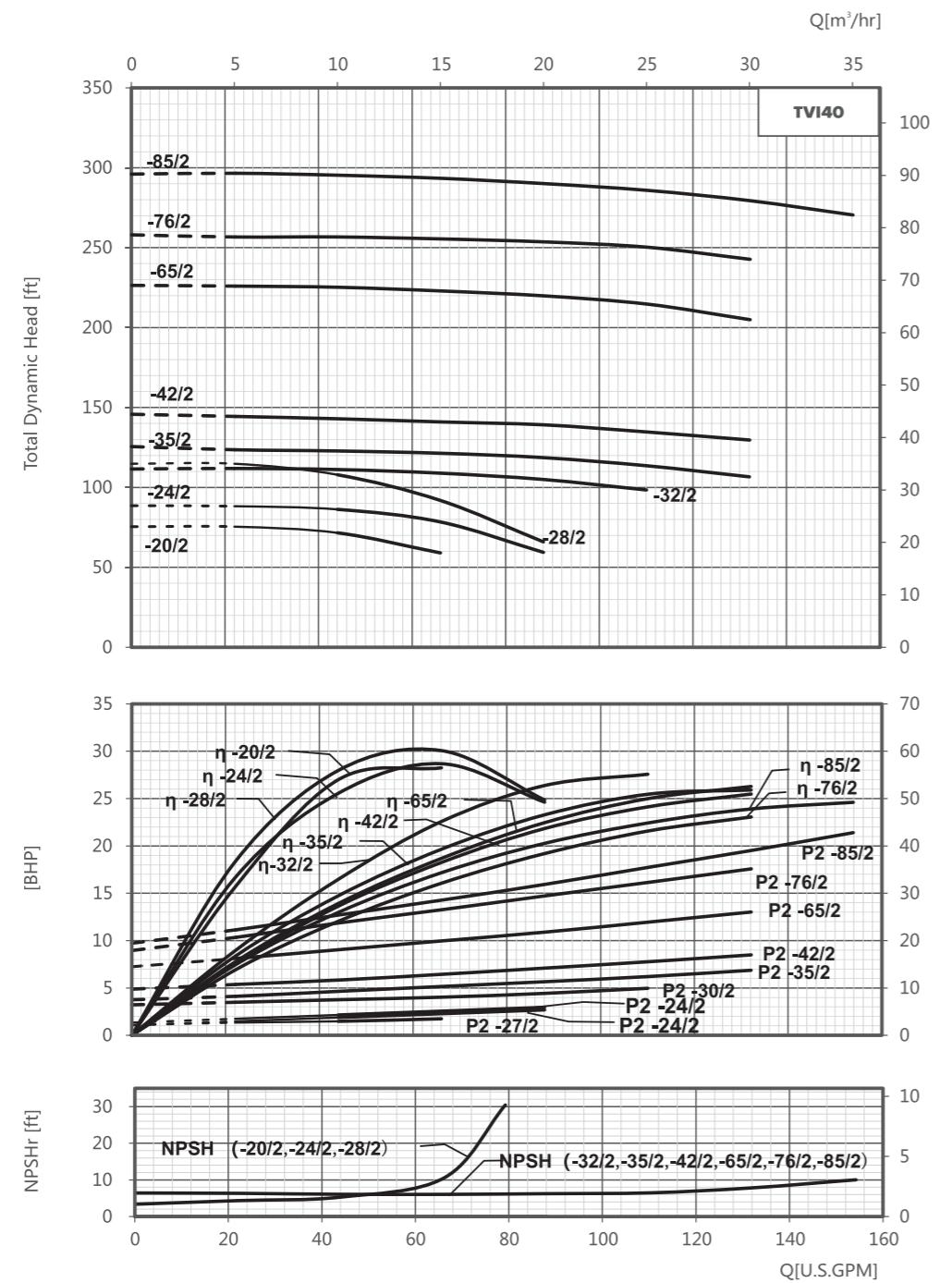
● Performance Table

Model	Motor		flow(U.S.)	17.6	30.8	35.2	44.0	52.8	66.0	88.1	110.1
	(KW)	(HP)									
TVI32-24/2	5.5	7.5		80.4	78.7	75.5		68.9			
TVI32-27/2	5.5	7.5		95.1		91.9	88.6	85.3	75.5		
TVI32-30/2	6.3	7.8		114.8		111.5		105.0	98.4		
TVI32-38/2	6.3	9.1		141.1		137.8		131.2	124.7	108.3	
TVI32-46/2	7.9	10.2		160.8		160.8		157.5	150.9	144.4	
TVI32-57/2	7.9	10.2		203.4		203.4		200.1	193.6	187.0	173.9
TVI32-72/2	13.8	13.0		252.6		252.6		249.3	246.1	236.2	219.8

TECHNICAL DATA

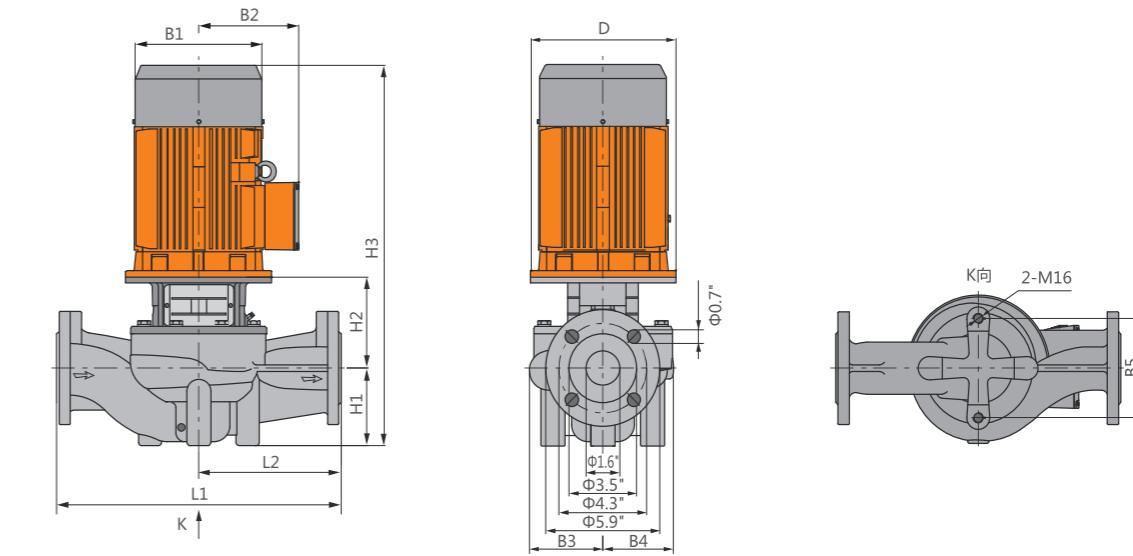
● TVI40.60Hz

Performance Curve



TECHNICAL DATA

● Installation Sketch



● Size and Weight

Model	Size(in)										Weight	
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
TVI40-20/2	5.5	7.5	6.1	3.8	3.7	4.7	2.7	6.3	20.4	12.6	6.3	101.41
TVI40-24/2	5.5	7.5	6.1	3.8	3.7	4.7	2.7	6.3	20.4	12.6	6.3	116.84
TVI40-28/2	6.3	7.8	6.5	3.8	3.7	4.7	2.7	7.0	23.3	12.6	6.3	154.32
TVI40-32/2	6.3	9.1	7.4	5.4	5.0	5.7	4.3	7.3	25.6	17.3	8.7	169.75
TVI40-35/2	7.9	10.2	8.2	5.4	5.0	5.7	4.3	8.4	28.1	17.3	8.7	233.69
TVI40-42/2	7.9	10.2	8.2	5.4	5.0	5.7	4.3	8.4	28.1	17.3	8.7	242.51
TVI40-65/2	13.8	13.0	10.0	5.4	5.0	5.7	4.3	34.3	34.3	17.3	8.7	368.17
TVI40-76/2	13.8	13.0	10.0	5.5	5.4	5.7	4.3	34.3	34.3	17.3	8.7	392.42
TVI40-85/2	13.8	13.0	10.0	5.5	5.4	5.7	4.3	36.3	36.3	17.3	8.7	432.10

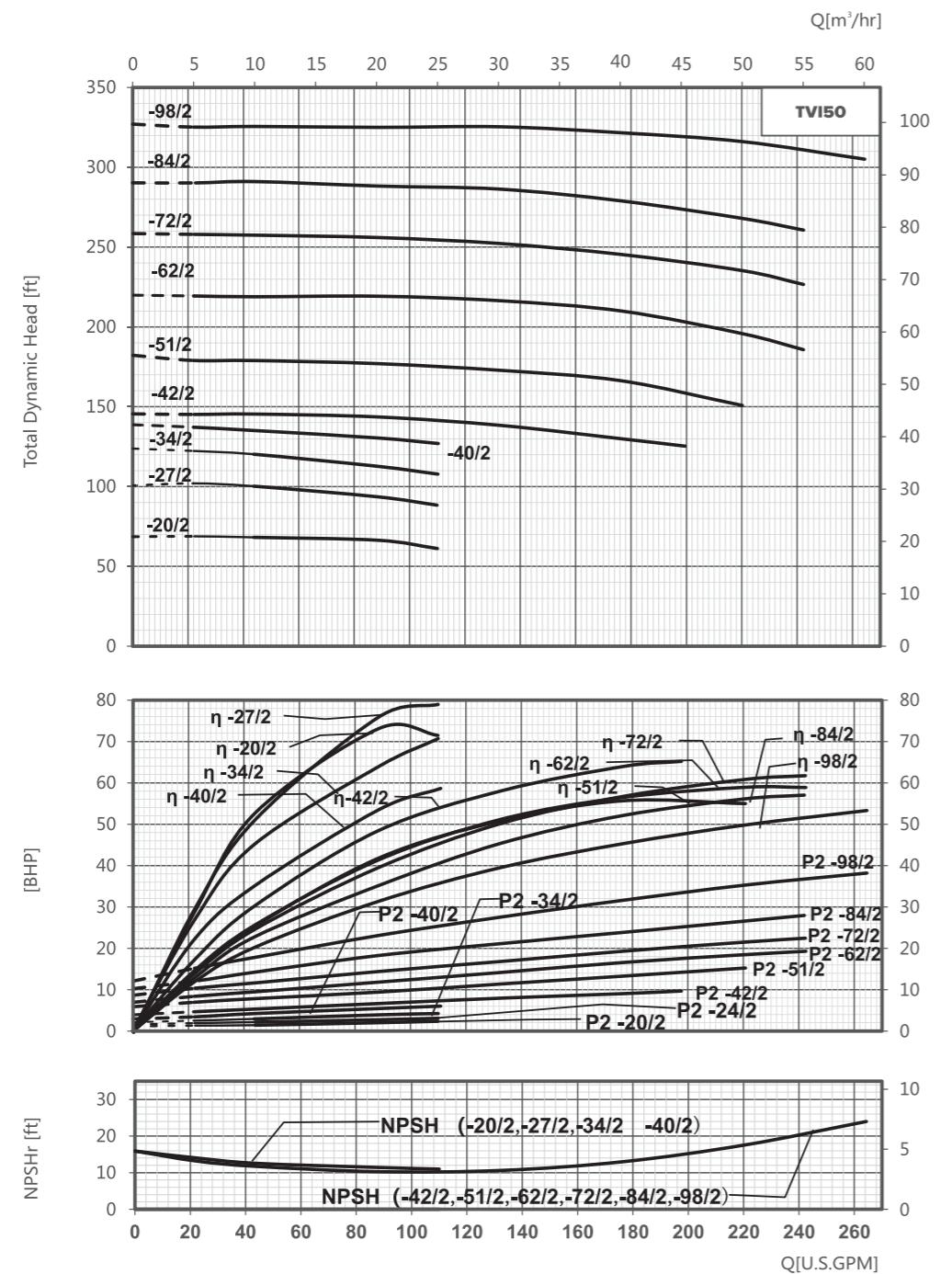
● Performance Table

Model	Motor		flow(U.S.)	22.0	44.0	52.8	66.0	88.1	110.1	132.1	154.1
	(KW)	(HP)									
TVI40-20/2	1.5	2		75.5	72.2	65.6	59.1				
TVI40-24/2	2.2	3		88.6	85.3		78.7	59.1			
TVI40-28/2	3	4		114.8	108.3		91.9	65.6			
TVI40-32/2	4	5.5		111.5	111.5		108.3	105.0	98.4		
TVI40-35/2	5.5	7.5		124.7	124.7		121.4	118.1	114.8	108.3	
TVI40-42/2	7.5	10		147.6	147.6		144.4	141.1	137.8	131.2	
TVI40-65/2	11	15		226.4	226.4		223.1	219.8	213.3	206.7	
TVI40-76/2	15	20		259.2	259.2		255.9	252.6	249.3	239.5	
TVI40-85/2	18.5	25		298.6	298.6		295.3	292.0	285.4	278.9	269.0

TECHNICAL DATA

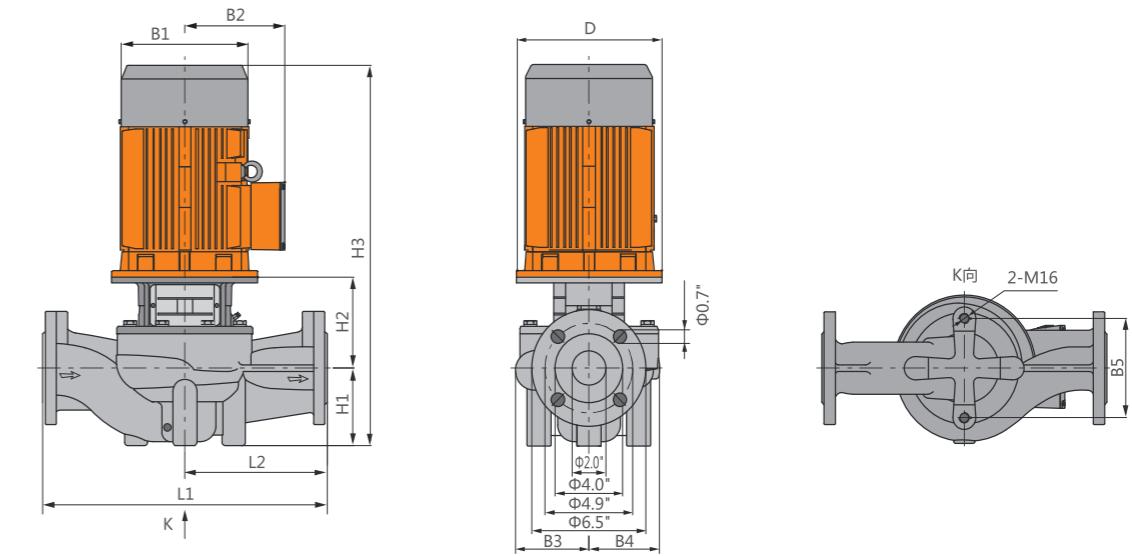
● TVI50.60Hz

Performance Curve



TECHNICAL DATA

● Installation Sketch



● Size and Weight

Model	Size(in)										Weight	
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
TVI50-20/2	5.5	7.5	6.1	4.6	4.5	5.7	4.5	6.0	22.0	13.4	6.7	143.30
TVI50-27/2	6.3	7.8	6.5	4.6	4.5	5.7	4.5	6.8	24.9	13.4	6.7	163.14
TVI50-34/2	6.3	9.1	7.4	5.1	4.5	5.7	4.5	6.8	25.3	13.4	6.7	174.16
TVI50-40/2	7.9	10.2	8.2	5.1	4.5	5.7	4.5	7.8	27.6	13.4	8.7	227.07
TVI50-42/2	7.9	10.2	8.2	6.7	6.2	5.7	4.5	7.8	27.6	17.3	8.7	260.14
TVI50-51/2	13.8	13.0	10.0	6.7	6.2	5.7	4.5	9.8	34.1	17.3	8.7	399.03
TVI50-62/2	13.8	13.0	10.0	6.7	6.2	5.7	4.5	9.8	34.1	17.3	8.7	421.08
TVI50-72/2	13.8	13.0	10.0	6.7	6.2	5.7	4.5	9.8	36.0	17.3	8.7	460.76
TVI50-84/2	13.8	14.2	11.2	6.7	6.2	5.7	4.5	9.8	37.0	17.3	8.7	540.13
TVI50-90/2	15.7	15.7	12.2	6.7	6.2	5.7	4.5	9.8	40.0	17.3	8.7	652.56

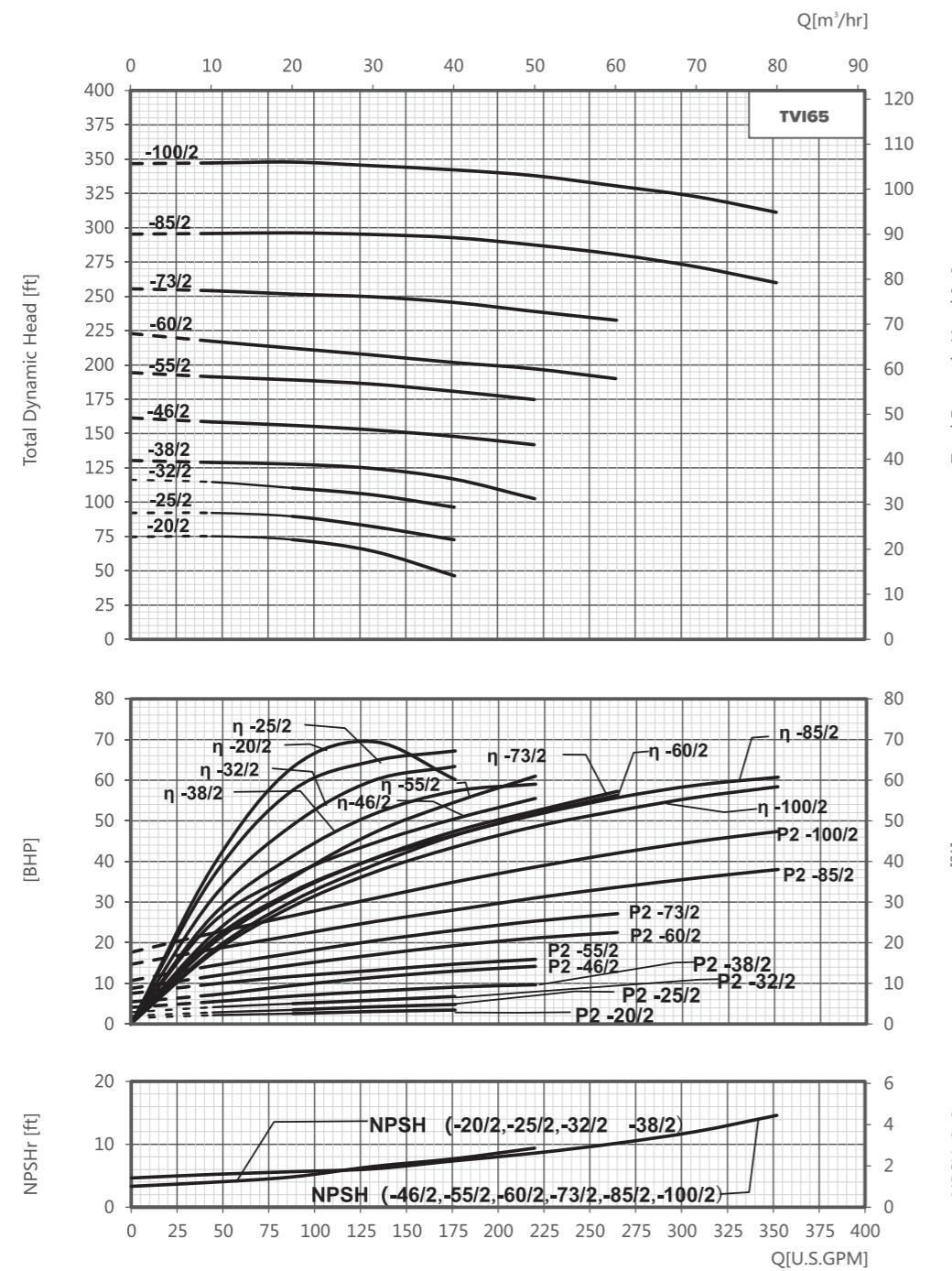
● Performance Table

Model	Motor (kW) (HP)	flow(U.S.)	22.0	44.0	66.0	88.1	110.1	132.1	154.1	176.1	198.1	220.2	242.2	264.2
			Head(ft)	68.9	67.3	66.6	65.6	60.7						
TVI50-20/2	2.2	3		101.7	98.4	94.5	88.6	85.3						
TVI50-27/2	3	4		121.4	118.8	115.8	111.5	107.3						
TVI50-34/2	4	5.5		136.2	135.2	134.5	131.2	128.0						
TVI50-40/2	5.5	7.5		149.3	144.4		141.1		137.8		131.2	128.0		
TVI50-42/2	7.5	10		177.2	175.5		172.2		170.6	167.3	164.0		154.2	
TVI50-51/2	11	15		218.2	218.5		216.5		213.3		206.7	203.4	193.6	183.7
TVI50-62/2	15	20		252.6	252.6		253.3		249.3		239.5	229.7	232.9	226.4
TVI50-72/2	18.5	25		288.7	288.7		288.7		285.4		278.9	275.6	272.3	269.0
TVI50-84/2	22	30		325.1	326.1		326.8		324.8		323.2		321.5	305.1
TVI50-90/2	30	40												

TECHNICAL DATA

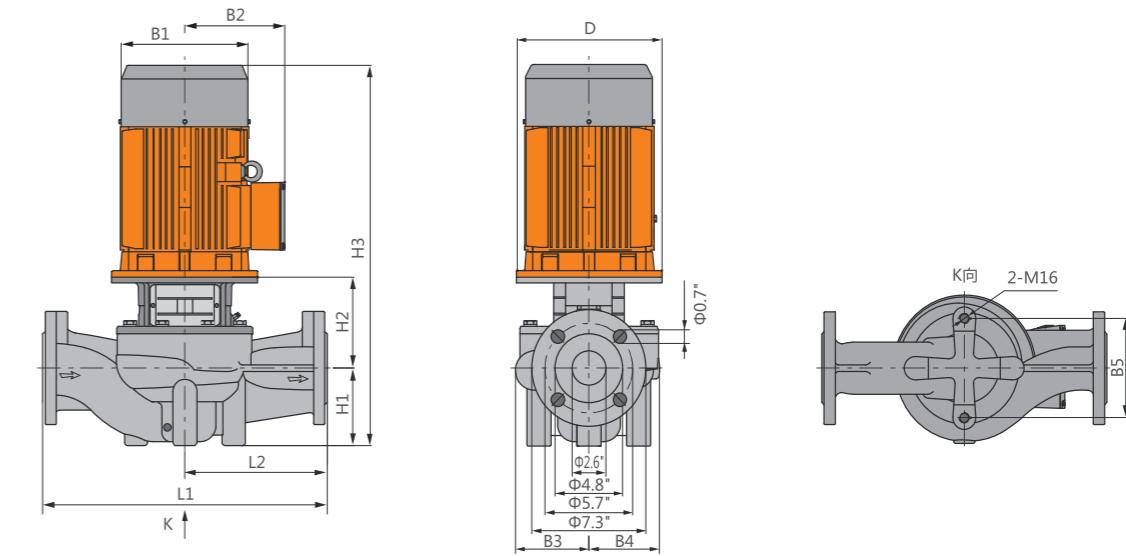
● TVI65.60Hz

Performance Curve



TECHNICAL DATA

● Installation Sketch



● Size and Weight

Model	Size(in)										Weight	
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
TVI65-20/2	6.3	7.8	6.5	5.6	4.9	5.7	4.1	7.5	25.2	14.2	7.1	163.14
TVI65-25/2	6.3	9.1	7.4	5.6	4.9	5.7	4.1	7.5	25.6	14.2	7.1	178.57
TVI65-32/2	7.9	10.2	8.2	5.6	4.9	5.7	4.1	8.4	27.9	14.2	7.1	231.48
TVI65-38/2	7.9	10.2	8.2	5.6	4.9	5.7	4.1	8.4	27.9	14.2	7.1	238.10
TVI65-46/2	13.8	13.0	10.0	7.0	6.6	5.7	4.9	10.3	34.9	18.7	9.4	403.44
TVI65-55/2	13.8	13.0	10.0	7.0	6.6	5.7	4.9	10.3	34.9	18.7	9.4	425.49
TVI65-60/2	13.8	13.0	10.0	7.0	6.6	5.7	4.9	10.3	36.9	18.7	9.4	462.97
TVI65-73/2	13.8	13.0	10.0	7.0	6.6	5.7	4.9	10.3	37.9	18.7	9.4	546.74
TVI65-85/2	15.7	15.7	12.2	7.0	6.6	5.7	4.9	10.3	40.8	18.7	9.4	681.22
TVI65-100/2	15.7	15.7	12.2	7.0	6.6	5.7	4.9	10.3	40.8	18.7	9.4	723.11

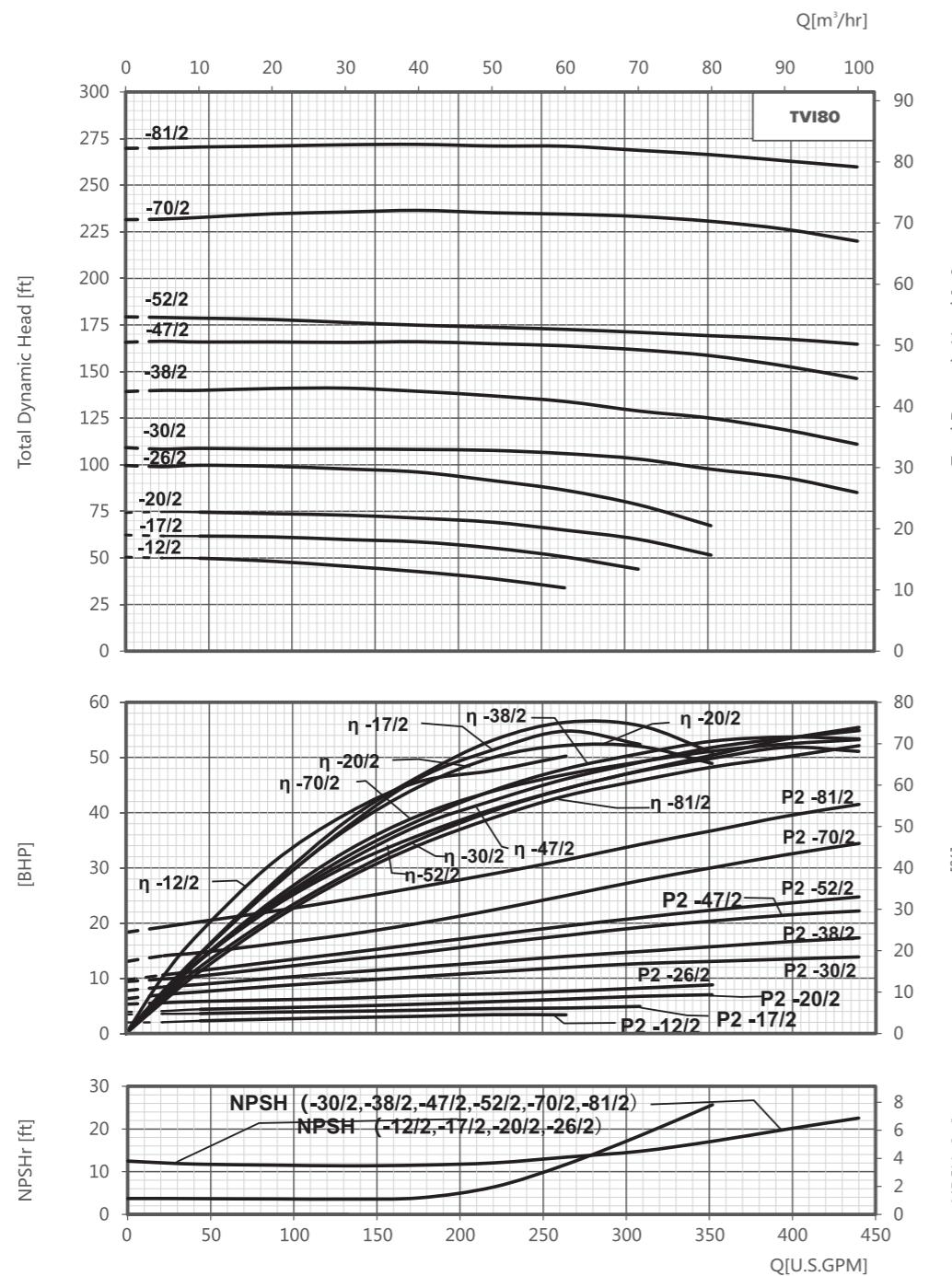
● Performance Table

Model	Motor (KW) (HP)	flow(U.S.)	Head(ft)								
			44.0	88.1	132.1	154.1	176.1	220.2	264.2	308.2	352.2
TVI65-20/2	3	4	72.8	72.2	65.6	59.1	46.9				
TVI65-25/2	4	5.5	91.9	88.6	82.0	78.7	68.9				
TVI65-32/2	5.5	7.5	114.8	109.9	105.0	101.7	96.8				
TVI65-38/2	7.5	10	129.6	127.0	126.3	124.7	118.1	103.3			
TVI65-46/2	11	15	157.5	154.2	152.6	150.9	147.6	144.4			
TVI65-55/2	15	20	188.0	185.4	184.4	180.4	177.2	170.6			
TVI65-60/2	18.5	25	210.0	209.3	203.4	202.8	198.5	196.9	183.7		
TVI65-73/2	22	30	255.9	252.6	251.0	249.3	247.7	239.5	232.9		
TVI65-85/2	30	40	288.1	288.7	295.3	296.9	293.6	290.4	278.9	272.3	259.2
TVI65-100/2	37	50	353.0	347.8	344.5	341.2	337.9	334.6	328.1	326.4	308.4

TECHNICAL DATA

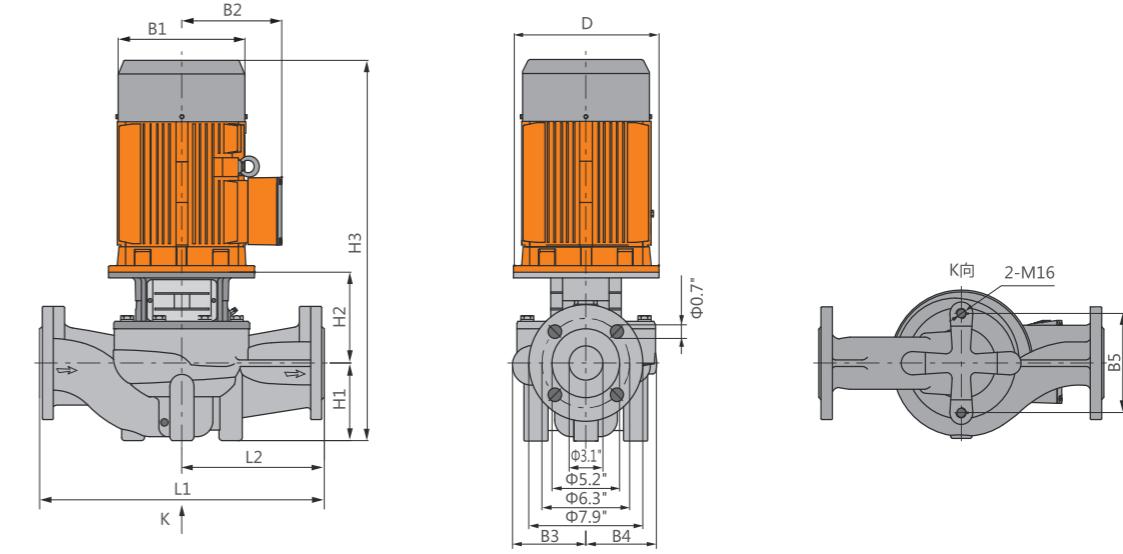
● TVI80.60Hz

Performance Curve



TECHNICAL DATA

● Installation Sketch



● Size and Weight

Model	Size(in)										Weight	
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
TVI80-12/2	6.3	7.8	6.5	5.6	4.9	6.3	3.8	8.6	26.0	17.7	8.9	185.19
TVI80-17/2	6.3	9.1	7.4	5.6	4.9	6.3	3.8	8.6	26.4	17.7	8.9	200.62
TVI80-20/2	7.9	10.2	8.3	5.6	4.9	6.3	3.8	9.5	28.7	17.7	8.9	251.32
TVI80-26/2	7.9	10.2	8.3	5.6	4.9	6.3	3.8	9.5	28.7	17.7	8.9	257.94
TVI80-30/2	13.8	13.0	10.0	7.0	6.6	5.7	4.5	11.0	35.2	19.7	9.8	427.69
TVI80-38/2	13.8	13.0	10.0	7.0	6.6	5.7	4.5	11.0	35.2	19.7	9.8	449.74
TVI80-47/2	13.8	13.0	10.0	7.0	6.6	5.7	4.5	11.0	37.2	19.7	9.8	489.42
TVI80-52/2	13.8	13.0	10.0	7.0	6.6	5.7	4.5	11.0	38.1	19.7	9.8	568.79
TVI80-70/2	15.7	15.7	12.2	7.0	6.6	5.7	4.5	11.0	41.1	19.7	9.8	703.27
TVI80-81/2	15.7	15.7	12.2	7.0	6.6	5.7	4.5	11.0	41.1	19.7	9.8	745.15

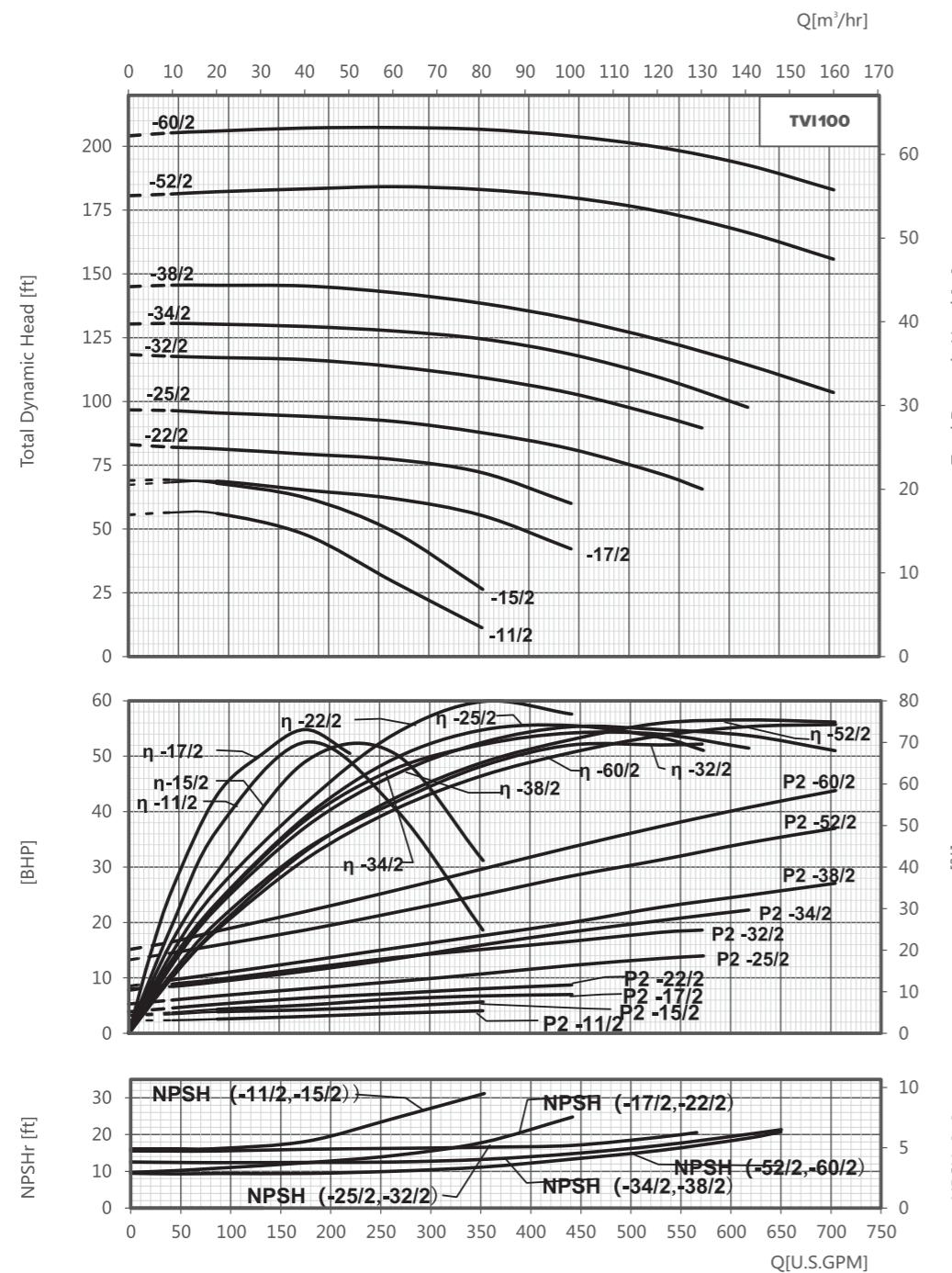
● Performance Table

Model	Motor (KW) (HP)	flow(U.S.)	22.0	44.0	88.1	132.1	176.1	220.2	264.2	308.2	352.2	396.3	440.3
			Head(ft)	49.9	51.2	49.2	47.6	44.3	39.4	34.4			
TVI80-12/2	3 4		49.9	51.2	49.2	47.6	44.3	39.4	34.4				
TVI80-17/2	4 5.5		60.7	62.3	61.0	59.4	57.4	55.8	51.8	44.3			
TVI80-20/2	5.5 7.5		73.8	75.5	77.4	74.8	72.2	69.6	65.6	62.3	52.5		
TVI80-26/2	7.5 10		99.4	100.4	99.7	98.4	95.1	91.9	85.3	82.0	68.9		
TVI80-30/2	11 15		120.7	120.7	120.4	117.5	115.8	112.2	108.6	106.3	98.4	91.2	77.1
TVI80-38/2	15 20		140.7	141.1	141.4	141.1	139.8	137.8	132.9	129.6	124.7	118.8	106.0
TVI80-47/2	18.5 25		168.3	169.0	167.0	165.7	165.0	164.7	164.0	162.1	154.2	152.6	146.3
TVI80-52/2	22 30		179.5	182.1	181.1	180.4	179.8	178.8	178.1	175.2	170.6	165.7	164.0
TVI80-70/2	30 40		232.6		234.3		236.2	235.9	234.9	232.9	229.7	227.4	213.3
TVI80-81/2	37 50		268.7		271.7		272.0		270.7	270.3	265.7	262.5	255.9

TECHNICAL DATA

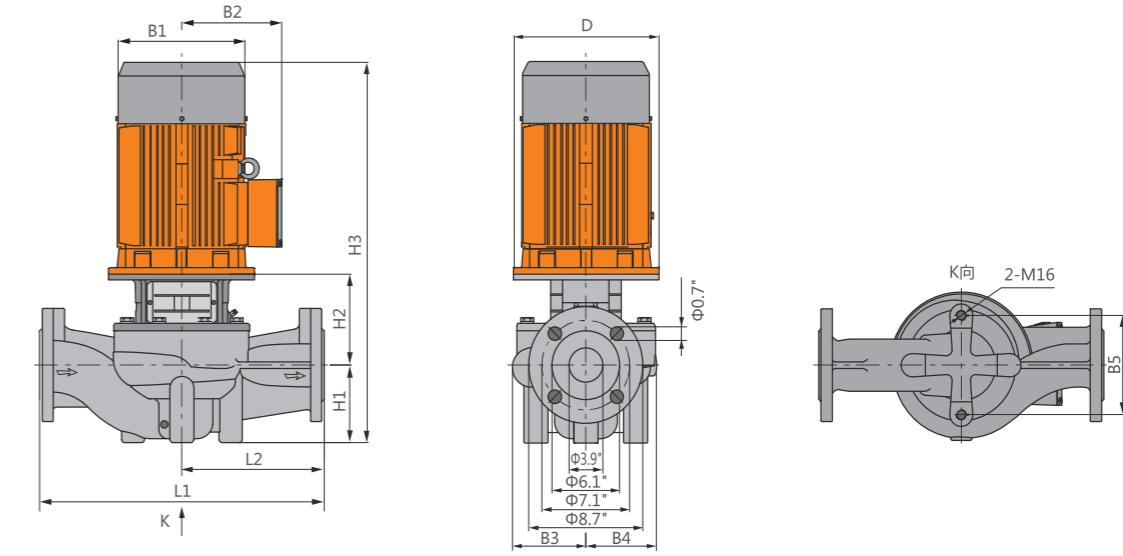
● TVI100.60Hz

Performance Curve



TECHNICAL DATA

● Installation Sketch



● Size and Weight

Model	Size(in)										Weight	
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
TVI100-11/2	6.3	8.5	7.5	5.3	4.0	6.3	4.1	7.5	25.2	17.7	8.9	143.30
TVI100-15/2	6.3	8.5	7.5	5.3	4.0	6.3	4.1	7.5	25.6	17.7	8.9	182.98
TVI100-17/2	7.9	10.2	8.1	5.9	4.6	5.7	5.5	8.5	29.3	19.7	9.8	262.35
TVI100-22/2	7.9	10.2	8.1	5.9	4.6	5.7	5.5	8.5	29.3	19.7	9.8	268.96
TVI100-25/2	13.8	13.8	9.6	7.1	6.0	9.1	5.5	10.6	35.8	21.7	10.8	434.31
TVI100-32/2	13.8	13.8	10.4	7.1	6.0	9.1	5.5	10.6	35.8	21.7	10.8	456.35
TVI100-34/2	13.8	13.8	10.4	7.1	6.0	9.1	5.5	10.6	37.8	21.7	10.8	493.83
TVI100-38/2	13.8	13.8	11.0	7.1	6.0	9.1	5.5	10.6	38.8	21.7	10.8	573.20
TVI100-52/2	15.7	15.7	12.0	7.1	6.0	9.1	5.5	10.6	41.7	21.7	10.8	701.06
TVI100-60/2	15.7	15.7	12.0	7.1	6.0	9.1	5.5	10.6	41.7	21.7	10.8	742.95

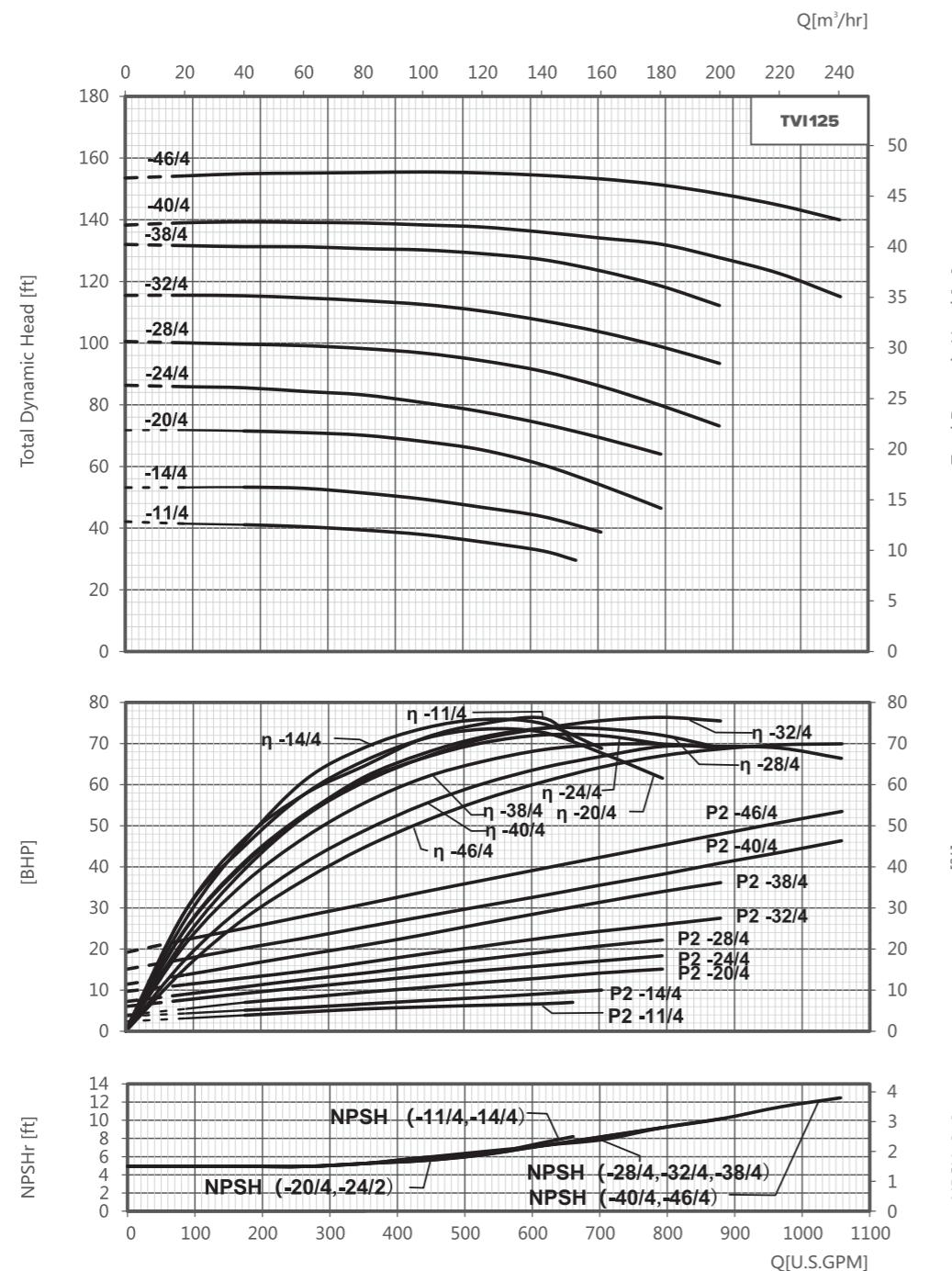
● Performance Table

Model	Motor (KW) (HP)	flow(U.S.)	44.0	88.1	176.1	220.2	264.2	352.2	440.3	528.4	572.4	616.4	704.5
			Head(ft)	56.4	56.1	47.9	36.1	29.5	20.7				
TVI100-11/2	3 4												
TVI100-15/2	4 5.5		67.9	68.2	58.7		49.2	26.2					
TVI100-17/2	5.5 7.5		69.2	68.2	65.6		63.0	55.8	42.7				
TVI100-22/2	7.5 10		84.0	83.3	80.1		733.3	72.2	60.4				
TVI100-25/2	11 15		95.5	96.8	94.5		91.2	87.3	82.0	65.0	63.6		
TVI100-32/2	15 20		118.1	120.1	116.8		113.5	109.9	105.0	94.8	83.7		
TVI100-34/2	18.5 25		129.3	129.3	129.6		128.0	124.0	118.8	111.5	109.6	101.7	
TVI100-38/2	22 30		143.4	146.0	145.0		143.7	139.4	132.9	124.7	119.4	114.8	101.0
TVI100-52/2	30 40		180.4	183.1	183.4		183.4	182.1	180.4	175.9	170.6	167.0	156.2
TVI100-60/2	37 50		203.4	206.4	207.7		207.3	206.7	203.4	198.8	196.9	189.0	177.2

TECHNICAL DATA

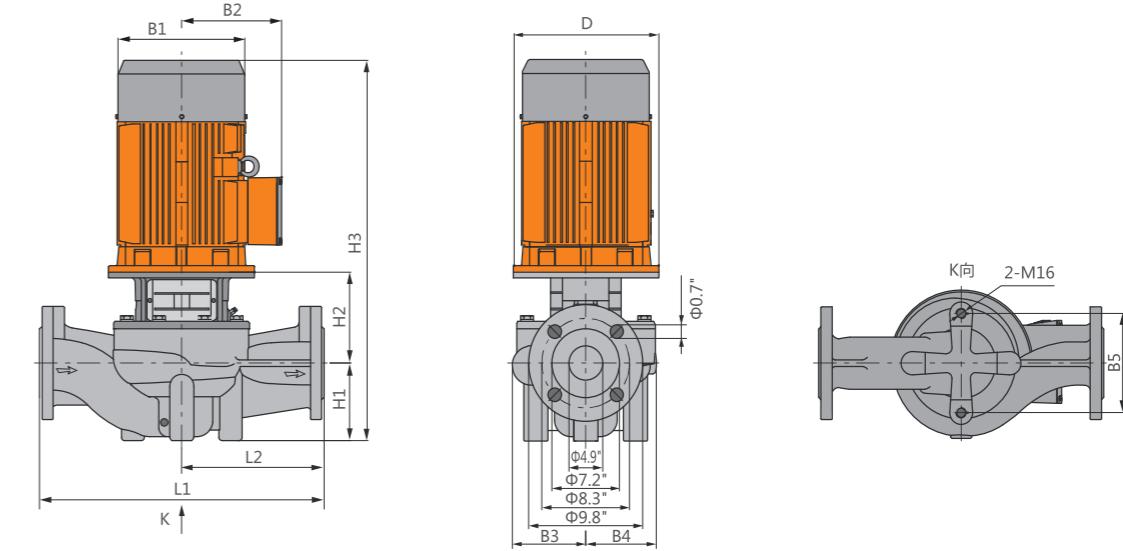
● TVI125.60Hz

Performance Curve



TECHNICAL DATA

● Installation Sketch



● Size and Weight

Model	Size(in)										Weight	
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
TVI125-11/4	7.9	10.2	8.2	8.5	6.9	9.1	8.5	9.0	32.8	24.4	12.2	365.96
TVI125-14/4	7.9	10.2	8.2	8.5	6.9	9.1	8.5	9.0	32.8	24.4	12.2	372.58
TVI125-20/4	13.8	13.0	10.0	9.3	8.2	9.1	8.5	11.7	39.8	31.5	15.7	643.74
TVI125-24/4	13.8	13.0	10.0	9.3	8.2	9.1	8.5	11.7	41.5	31.5	15.7	665.79
TVI125-28/4	13.8	13.0	10.0	9.3	8.2	9.1	8.5	11.7	42.9	31.5	15.7	707.68
TVI125-32/4	13.8	13.0	10.0	9.3	8.2	9.1	8.5	11.7	44.4	31.5	15.7	784.84
TVI125-38/4	15.7	15.7	12.2	9.3	8.2	9.1	8.5	11.7	45.7	31.5	15.7	917.11
TVI125-40/4	17.7	17.7	12.8	10.7	9.8	9.1	8.5	12.4	47.4	31.5	15.7	1100.10
TVI125-46/4	17.7	17.7	12.8	10.7	9.8	9.1	8.5	12.4	48.3	31.5	15.7	1181.67

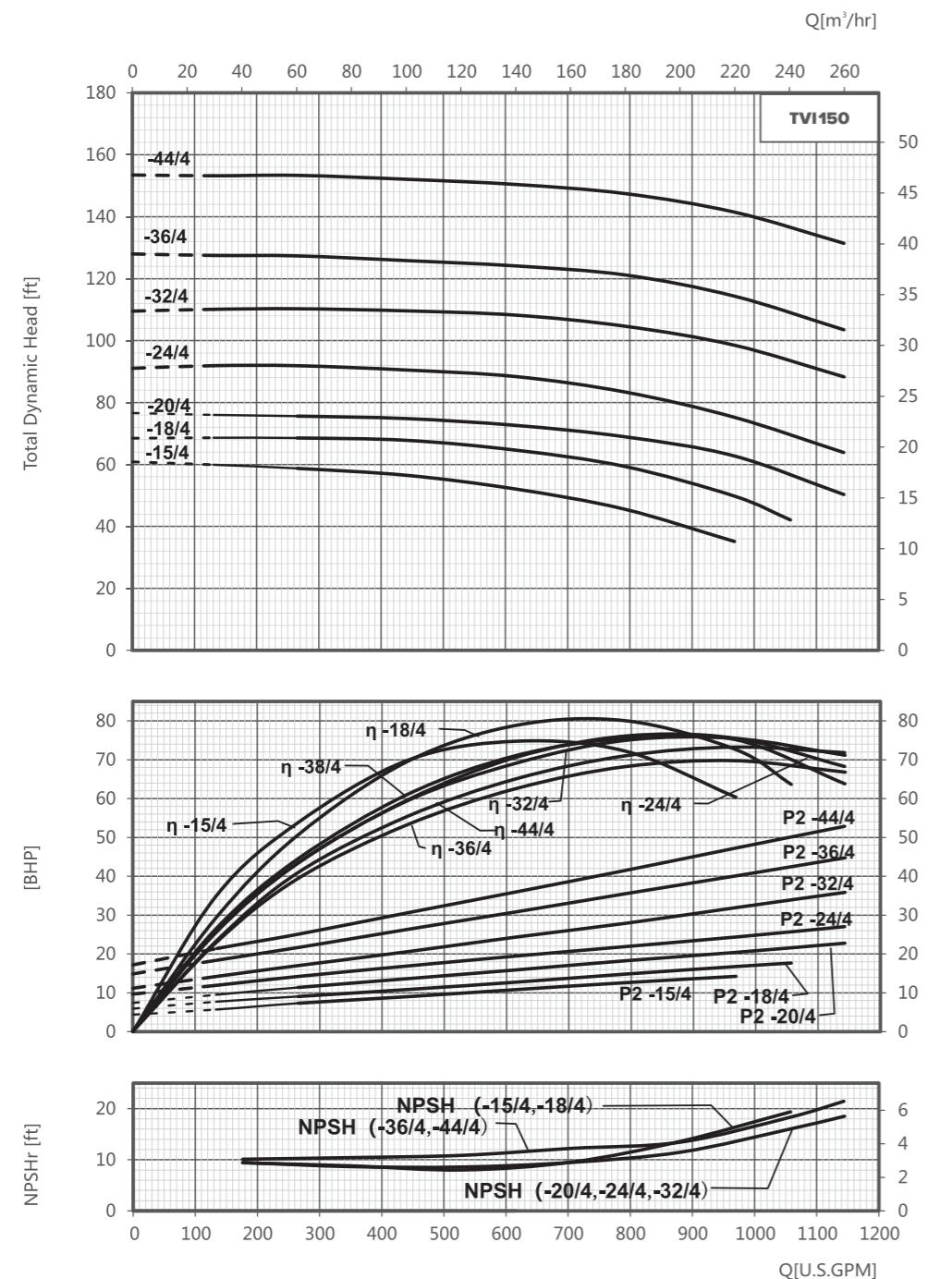
● Performance Table

Model	Motor (kW) (HP)	flow(U.S.)	88.1	176.1	264.2	352.2	440.3	528.4	616.4	660.5	704.5	792.5	880.6	968.7	1056.7	
			Head(ft)	42.3	41.7	41.3	40.0	38.1	36.1	32.8	29.5					
TVI125-11/4	5.5	7.5		53.1	52.8	52.5	52.2	50.2	45.9	45.3		41.0				
TVI125-14/4	7.5	10		71.5	70.2	69.6	68.9	67.6	65.6	59.1		53.8	47.6			
TVI125-20/4	11	15		86.0	85.0	84.3	83.7	81.4	78.7	75.1		69.6	65.0			
TVI125-24/4	15	20		99.7	99.1	98.8	98.1	96.5	93.8	91.9		87.3	80.4	73.8		
TVI125-28/4	18.5	25		115.5	114.5	114.2	113.2	112.2	109.9	107.3	105.0	102.7	98.8	91.2		
TVI125-32/4	22	30		131.9	131.6	131.2	130.9	130.6	129.6	126.6	124.7	124.0	118.8	110.9		
TVI125-38/4	30	40		139.8	140.4	140.7	140.1	139.1	137.5	135.5		133.5	131.2	127.6	122.7	116.8
TVI125-40/4	37	50		154.9	155.5	156.2	156.5	156.2	155.8	154.9		153.2	150.9	148.0	144.7	140.4
TVI125-46/4	45	60														

TECHNICAL DATA

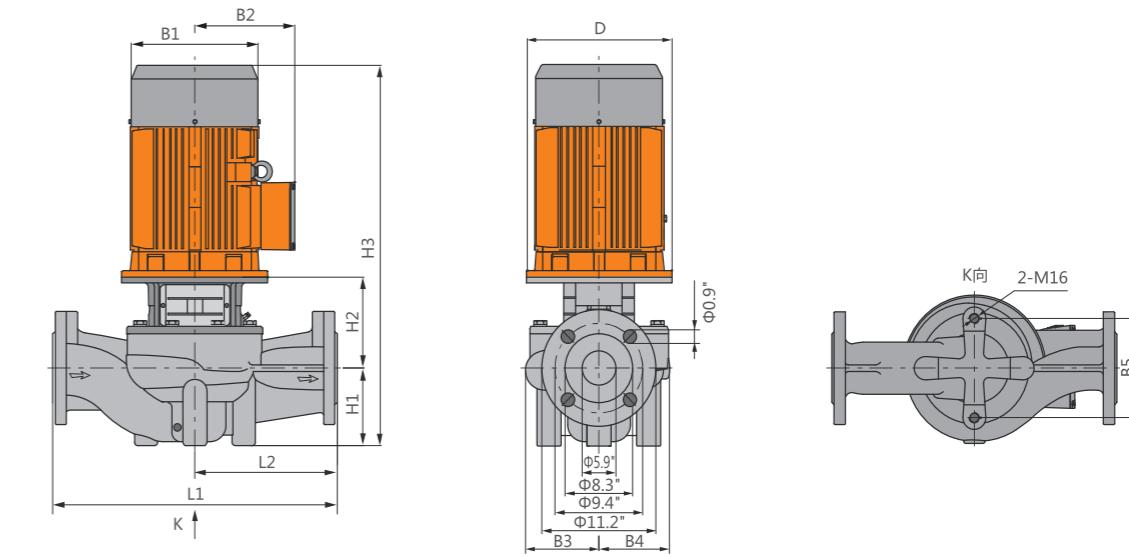
● TVI150.60Hz

Performance Curve



TECHNICAL DATA

● Installation Sketch



● Size and Weight

Model	Size(in)										Weight	
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
TVI150-15/4	13.8	12.4	9.8	9.4	8.2	9.1	8.5	10.6	38.7	31.5	15.7	617.29
TVI150-18/4	13.8	12.4	9.8	9.4	8.2	9.1	8.5	10.6	40.3	31.5	15.7	661.38
TVI150-20/4	13.8	14.2	10.8	9.4	8.2	9.1	8.5	10.6	41.8	31.5	15.7	740.75
TVI150-24/4	13.8	14.2	10.8	9.4	8.2	9.1	8.5	10.6	43.3	31.5	15.7	776.02
TVI150-32/4	15.7	15.7	12.0	9.4	8.2	9.1	8.5	10.6	44.6	31.5	15.7	888.45
TVI150-36/4	17.7	17.7	12.8	10.5	9.8	9.1	9.1	11.7	46.9	35.4	17.7	1119.94
TVI150-44/4	17.7	17.7	12.8	10.5	9.8	9.1	9.1	11.7	47.8	35.4	17.7	1201.51

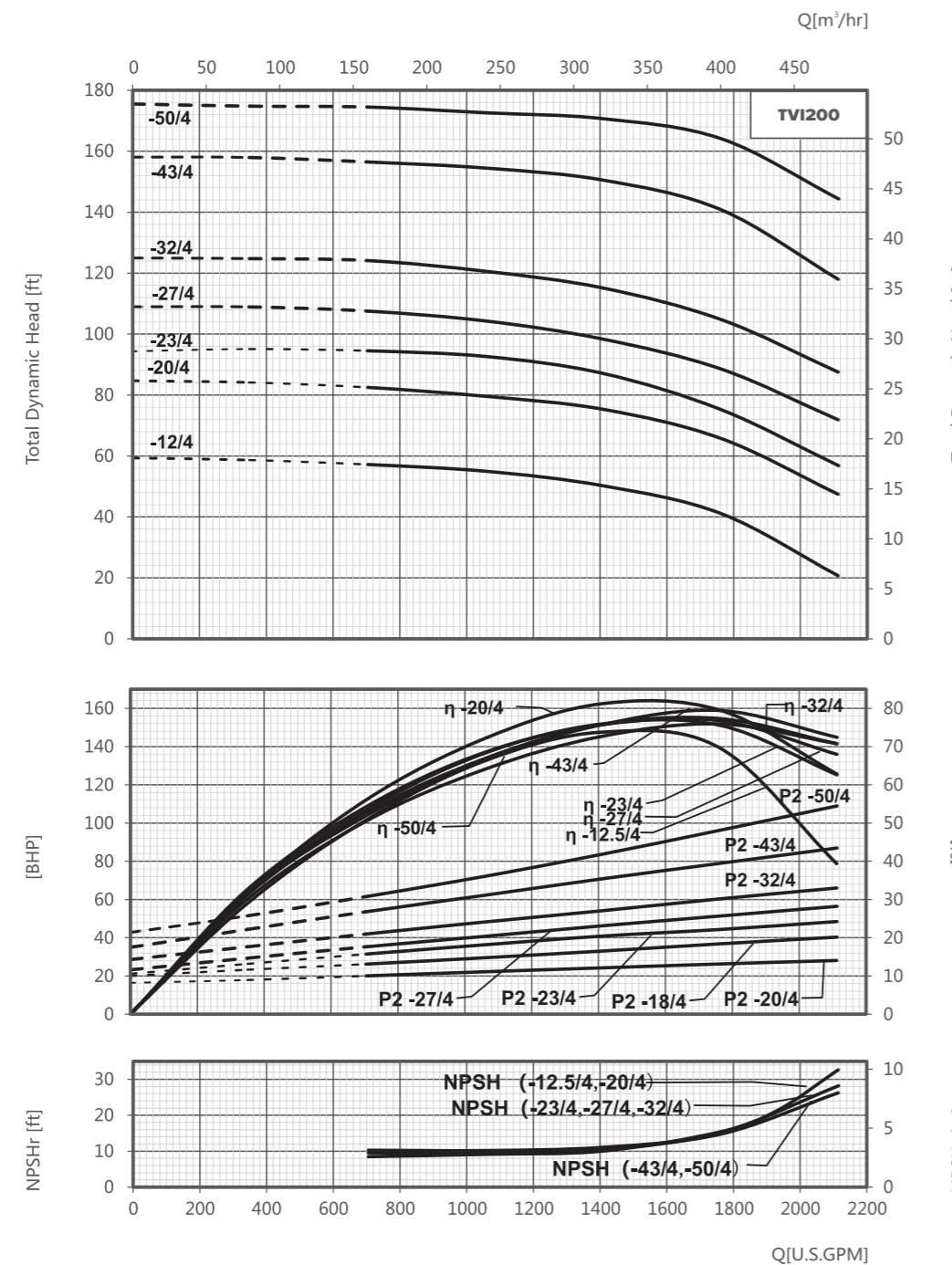
● Performance Table

Model	Motor (KW) (HP)	flow(U.S.)	Head(ft)										
			132.1	264.2	396.3	528.4	616.4	704.5	792.5	880.6	968.7	1056.7	1144.8
TVI150-15/4	11 15		62.7	60.4	57.7	54.8	52.2	49.2	46.3	41.7	34.4		
TVI150-18/4	15 20		70.9	69.9	68.2	65.9	64.0	64.0	59.1	55.4	50.5	41.3	
TVI150-20/4	18.5 25		78.7	77.4	76.4	75.1	73.5	73.5	68.6	65.6	62.0	57.1	51.2
TVI150-24/4	22 30		88.6	89.2	88.9	87.9	86.3	86.3	81.7	78.7	74.8	70.5	65.3
TVI150-32/4	30 40		112.2	112.9	113.5	112.9	111.5	111.5	107.6	105.0	101.4	96.5	89.6
TVI150-36/4	37 50		130.2	128.9	127.3	125.3	124.0	124.0	120.4	118.1	114.5	110.2	104.7
TVI150-44/4	45 60		155.2	155.5	154.9	153.5	152.2	152.2	147.6	144.4	140.7	136.8	131.9

TECHNICAL DATA

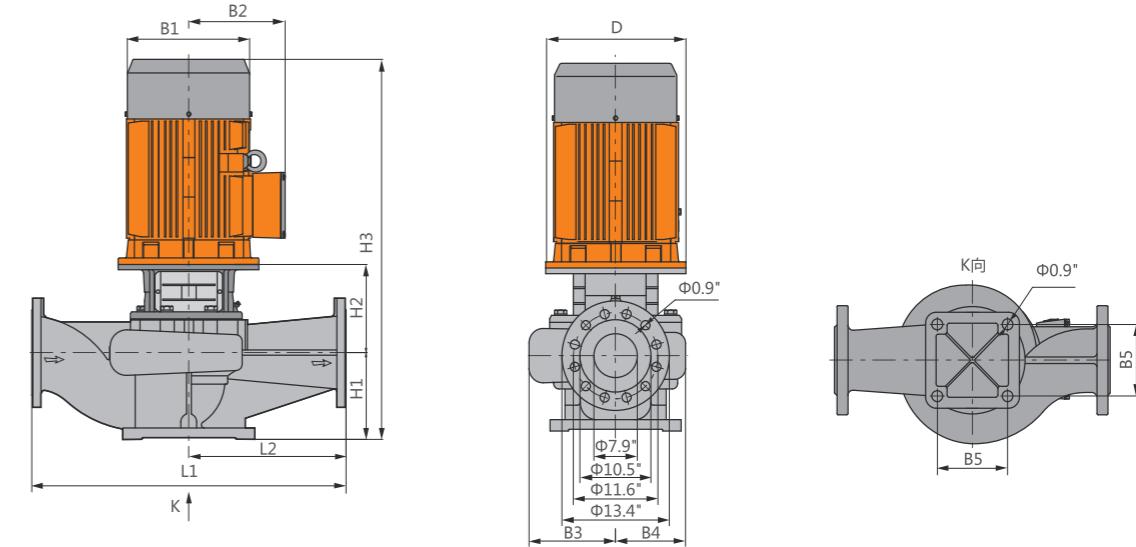
● TVI200.60Hz

Performance Curve



TECHNICAL DATA

● Installation Sketch



● Size and Weight

Model	Size(in)										Weight	
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
TVI200-12.5/4	13.8	14.2	11.0	10.9	8.6	14.2	10.6	16.3	51.2	39.4	19.7	950.18
TVI200-20/4	15.7	15.7	12.0	10.9	8.6	14.2	10.6	16.3	52.5	39.4	19.7	1080.25
TVI200-23/4	17.7	17.7	13.2	11.9	9.9	14.2	10.6	17.5	54.7	43.3	21.7	1322.76
TVI200-27/4	17.7	17.7	13.2	11.9	9.9	14.2	10.6	17.5	55.6	43.3	21.7	1402.13
TVI200-32/4	21.7	19.3	14.4	11.9	9.9	14.2	10.6	17.5	58.6	43.3	21.7	1558.65
TVI200-43/4	21.7	21.7	15.7	12.4	10.6	14.2	10.6	18.0	61.3	43.3	21.7	1940.05
TVI200-50/4	21.7	21.7	15.7	12.4	10.6	14.2	10.6	18.0	63.3	43.3	21.7	2140.67

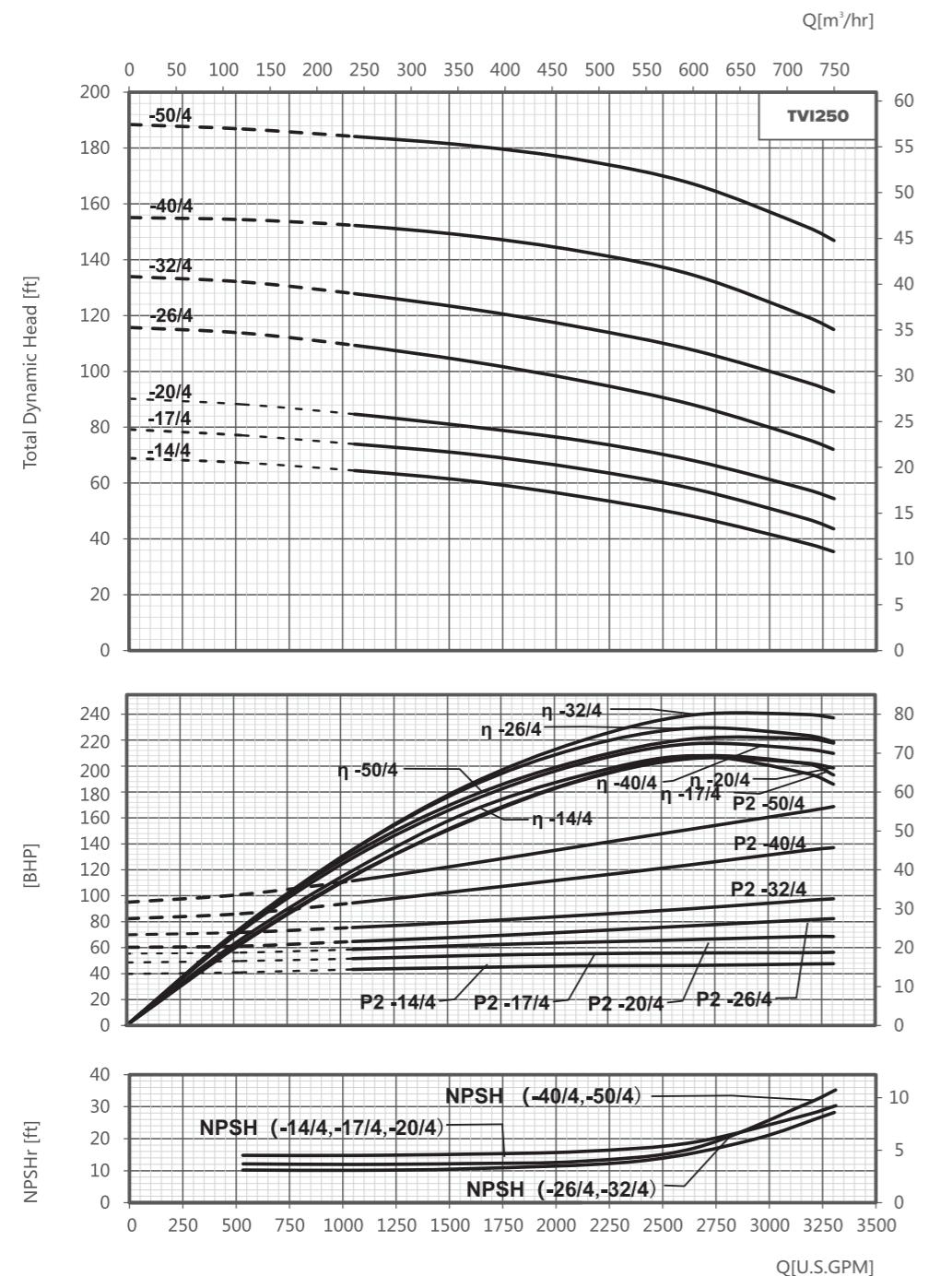
● Performance Table

Model	Motor (KW) (HP)	flow(U.S.)	704.5	880.6	1056.7	1232.8	1409.0	1585.1	1761.2	1937.3	2133.4
			Head(ft)	57.1	56.1	54.8	52.5	49.9	46.3	41.0	32.8
TVI200-12.5/4	22 30		82.3	81.4	79.7	78.1	75.5	71.5	65.6	57.4	48.9
TVI200-20/4	30 40		94.5	93.8	92.8	90.6	87.3	82.3	75.5	66.6	56.8
TVI200-23/4	37 50		107.6	106.3	104.3	101.7	101.7	94.2	88.6	80.7	71.5
TVI200-27/4	45 60		124.0	122.7	120.7	118.4	118.4	110.9	105.0	96.8	87.6
TVI200-32/4	55 75		156.5	155.5	154.5	152.9	152.9	147.0	141.1	131.2	118.1
TVI200-43/4	75 100		174.5	173.6	172.9	171.9	171.9	168.6	164.0	156.2	144.4
TVI200-50/4	90 120										

TECHNICAL DATA

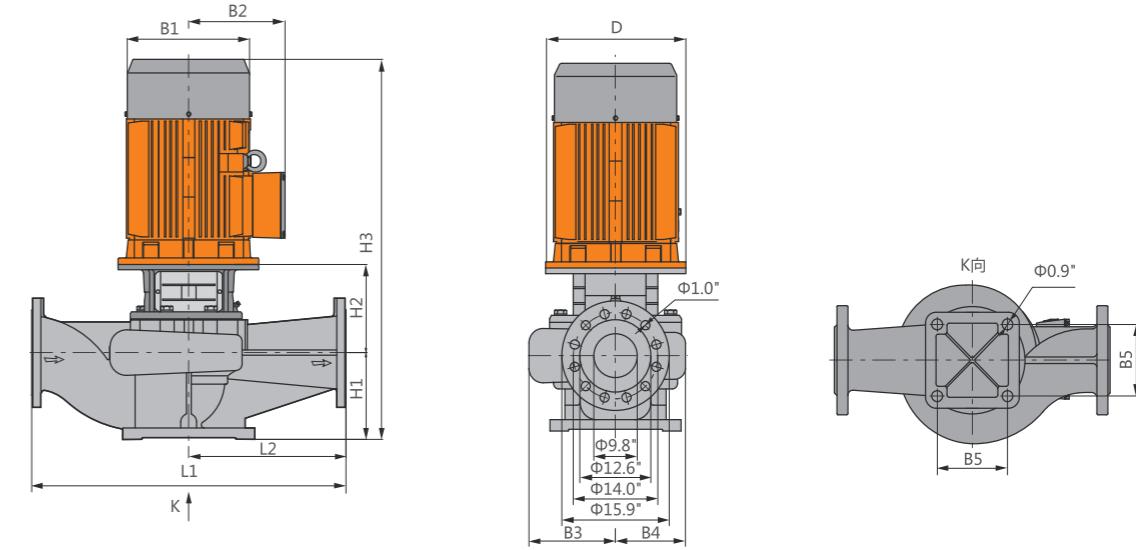
● TVI250.60Hz

Performance Curve



TECHNICAL DATA

● Installation Sketch



● Size and Weight

Model	Size(in)										Weight	
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
TVI250-14/4	17.7	17.7	13.2	12.4	9.6	15.4	11.8	19.5	57.8	43.3	21.7	1344.81
TVI250-17/4	17.7	17.7	13.2	12.4	9.6	15.4	11.8	19.5	58.7	43.3	21.7	1426.38
TVI250-20/4	21.7	19.3	14.4	12.4	9.6	15.4	11.8	19.5	61.7	43.3	21.7	1587.31
TVI250-126/4	21.7	21.7	15.7	13.0	10.4	17.3	11.8	20.0	64.4	43.3	21.7	1997.37
TVI250-32/4	21.7	21.7	15.7	13.0	10.4	17.3	11.8	20.0	66.4	43.3	21.7	2197.99
TVI250-40/4	26.0	24.6	21.9	13.7	11.5	17.3	12.0	20.7	72.4	47.2	23.6	3055.58
TVI250-50/4	26.0	24.6	21.9	13.7	11.5	17.3	12.0	20.7	78.3	47.2	23.6	3238.56

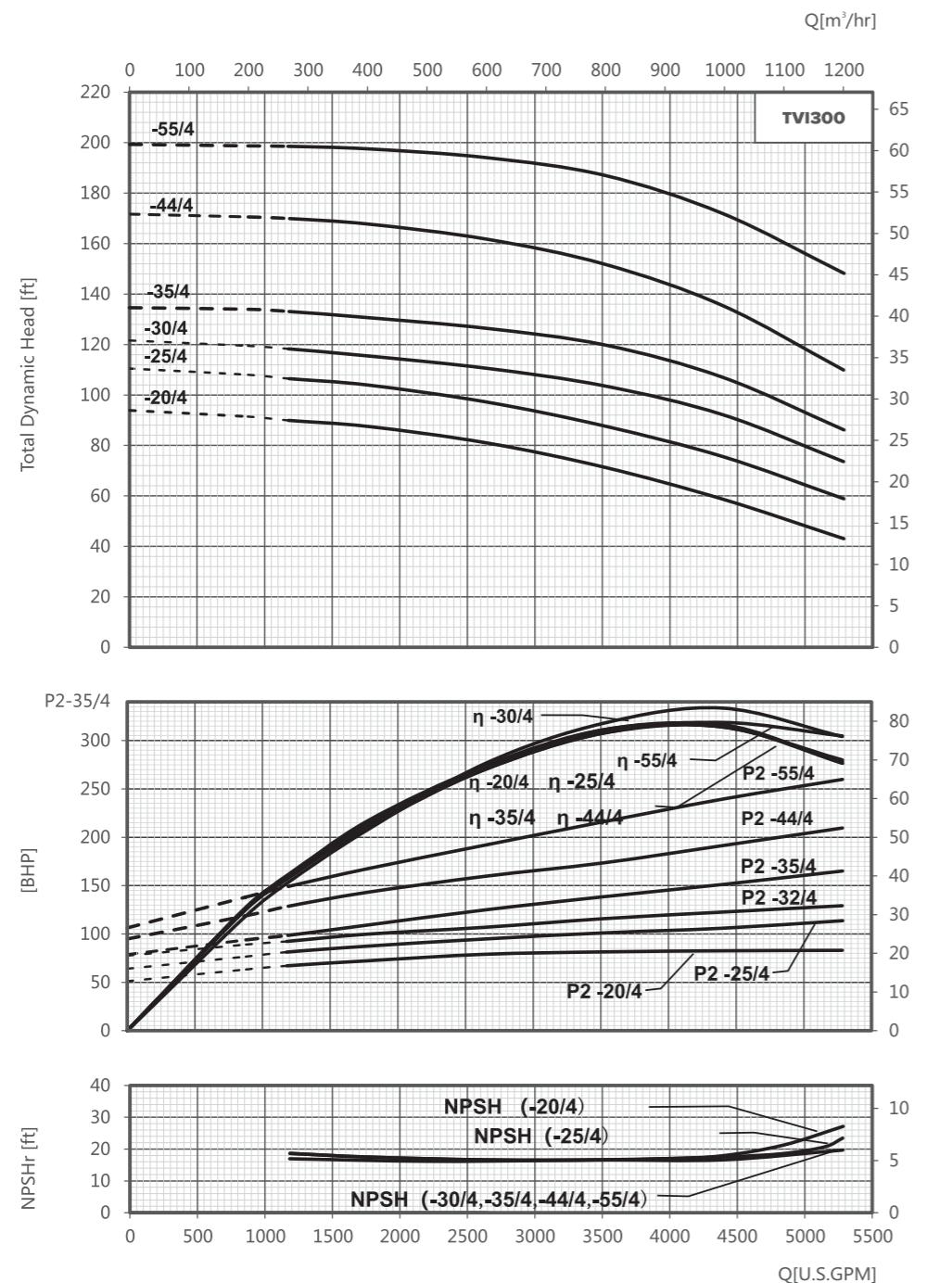
● Performance Table

Model	Motor (KW) (HP)	flow(U.S.) Head(ft)	1056.7	1320.9	1585.1	1849.3	2113.4	2377.6	2641.8	2773.9	2906.0	3170.2	3302.3
			64.3	62.7	60.4	58.1	55.1	52.2	48.2	45.9	43.6	38.1	35.1
TVI250-14/4	37 50		73.8	72.5	70.2	67.9	65.3	62.0	57.7	55.8	53.5	47.2	43.3
TVI250-20/4	55 75		84.6	82.7	80.4	77.8	75.1	71.9	67.9	65.6	63.3	57.7	54.1
TVI250-126/4	75 100		109.3	106.6	103.3	100.4	96.8	92.5	87.9	85.3	82.7	75.8	71.9
TVI250-32/4	90 120		127.6	125.3	122.4	119.1	115.8	112.2	107.6	105.0	102.4	96.1	92.5
TVI250-40/4	110 150		152.2	150.3	148.3	145.7	143.0	139.1	134.2	131.2	128.0	119.8	114.5
TVI250-50/4	132 180		184.1	182.7	180.8	178.5	175.9	172.2	167.0	164.0	160.4	151.9	147.0

TECHNICAL DATA

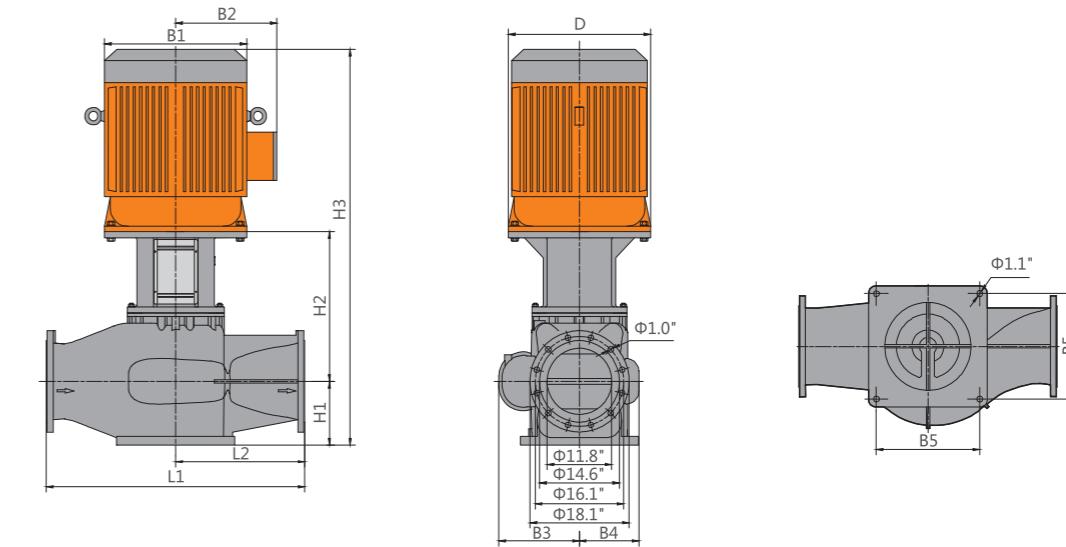
● TVI300.60Hz

Performance Curve



TECHNICAL DATA

● Installation Sketch



● Size and Weight

Model	Size(in)										Weight	
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
TVI300-20/4	21.7	21.7	15.7	13.6	9.8	17.3	11.4	25.6	69.7	47.2	23.6	2358.92
TVI300-25/4	21.7	21.7	15.7	13.6	9.8	17.3	11.4	25.6	71.7	47.2	23.6	2469.15
TVI300-30/4	26.0	24.6	21.7	13.6	9.8	17.3	11.4	26.7	86.6	47.2	23.6	3218.72
TVI300-35/4	26.0	24.6	21.7	13.6	9.8	17.3	11.4	26.7	84.6	47.2	23.6	3395.08
TVI300-44/4	26.0	24.6	21.7	15.0	11.6	18.9	11.4	27.6	84.6	47.2	23.6	3924.19
TVI300-55/4	26.0	24.6	21.7	15.0	11.6	18.9	11.4	27.6	84.6	47.2	23.6	4188.74

● Performance Table

Model	Motor (kW) (HP)	flow(U.S.)	1188.8	1585.1	1981.4	2773.9	3302.3	3962.7	4755.2	5283.6
			Head(ft)							
TVI300-20/4	75 100		90.2	88.6	86.3	79.7	73.8	65.6	52.5	42.7
TVI300-25/4	90 120		106.6	105.0	102.7	96.1	90.6	82.0	69.2	58.7
TVI300-30/4	110 150		118.1	116.1	114.2	109.6	105.3	98.4	85.3	73.5
TVI300-35/4	132 180		133.2	131.2	129.9	125.3	121.4	114.8	99.1	86.3
TVI300-44/4	160 215		169.9	168.3	166.3	160.8	154.5	144.4	126.3	109.9
TVI300-55/4	200 270		198.5	197.8	196.9	193.2	189.3	180.4	162.7	147.6

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