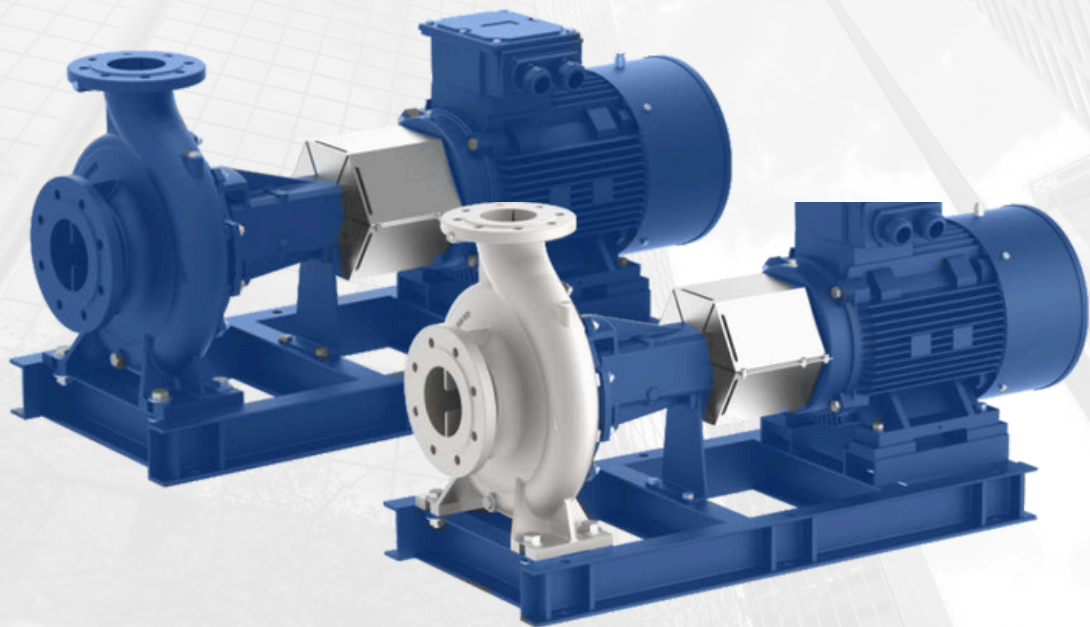




***Experiencia, Conocimiento y Soluciones
en Sistemas HVAC***



TBS SERIES

**SINGLE-STAGE BARE SHAFT END-SUCTION PUMPS
ACCORDING TO ISO 2858 | 60 HZ**

TORO

WATER SOLUTIONS
A SHN BRAND



S
Sistemas Hidrónicos



ISO 9001



ISO 14001

SHN
Sistemas Hidrónicos del Norte

SISTEMAS HIDRÓNICOS DEL NORTE

Galeana No.2902 Col. Del Norte, Monterrey, N.L. México 64500

Tel. (81) 8989-9372

Sales:ventas@shn.com.mx

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TBS

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Type key

The example shows an TBS 32-125 pump with a 4.72 inch impeller diameter, ANSI flanges, with cast iron casing & impeller and with a carbon/ceramic/NBR/S.S 304 mechanical shaft seal.

TBS

Example TBS 32 -125 /4.72 M 2A A 1

Type range								
Nominal diameter of discharge port (DN)								
Nominal impeller diameter (mm)								
Actual impeller diameter (inch)								
G = With gland packing*								
M = With mechanical seal								
Code for pipework connection								
1 = ANSI-125 flange*								
2A = PN-16 flange								
2B = PN-25 flange								
3 = ANSI-250 flange*								
Code for materials								
A = Cast iron pump housing with cast iron impeller*								
B = Cast iron pump housing with bronze impeller								
C = Cast iron pump housing with CF-8 impeller								
D = Cast iron pump housing with CF-8M impeller								
E = Bronze pump housing with bronze impeller								
F = CF-8 pump housing with CF-8 impeller								
G = CF-8M pump housing with CF-8M impeller								
Code for shaft seal material								
1 = Carbon/Ceramic/NBR/S.S 304*								
2 = Sic/Sic/Viton/S.S 316								
3 = Carbon/Sic/Viton/S.S 316								

* Standard construction.

Product data

Single-stage bare shaft end-suction pumps

TBS

Introduction

TBS are single stage bare shaft end suction pumps according to ISO 2858. Our range also includes several model of pumps which have been developed with duty condition which are not covered in ISO 2858.

Applications

- Water Supply.
- Pressure boosting for high rise buildings, hotels industry etc.
- Industrial washing & cleaning systems.
- Fire Protection systems.
- Cooling & Air Conditioning systems.
- Boiler feed and condensate transfer system.
- Irrigation systems for fields including sprinkler & drip irrigation systems.



Features & benefits

Following are the main features and benefits offered by the TBS pumps.

- The pumps are non self priming horizontal end-suction pumps with axial suction port and radial discharge port.
- Standard flanges for suction and discharge ports will be ANSI 125 and ANSI 250 as per ASME B16.1. PN 16 as per DIN standard EN 1092-2 and PN 25 as per DIN standard EN 1092-2 are available on request.
- Performance and dimensions comply to ISO 2858.
- These pumps are long coupled pumps with TEFC squirrel cage induction motors with main dimensions complying to NEMA standards MG 1-2006.
- These pumps are available with gland packing as well as mechanical shaft seal.
- These pumps have the discharge range from 35 to 3350 USgpm and head range from 12 to 470 feet. Motor ratings are from 1 to 300 HP.
- The pump impellers are dynamically balanced to grade 6.3 of ISO 1940.
- These pumps and motors are available with fabricated steel base frame according to EN 23661.
- These pumps are available with high efficiency motors complying to meet or exceed the efficiency requirements of the US Energy Policy Act of 1992 (EPAAct) and Natural Resources Canada Standards (NRCan).
- The efficiency will meet or exceed full load efficiency of TEFC motors as per Table 12-11 of NEMA standards MG 1-2006
- They can also be supplied with NEMA premium efficiency TEFC motors as per Table 12-12 NEMA standards MG 1-2006 on request.
- These pumps feature the back pull-out design. As shown in fig. 1 the user can remove the motor, bearing bracket and impeller for servicing without disturbing the volute casing and the suction & delivery pipes.
- We can also supply pumps with IEC standard motors.

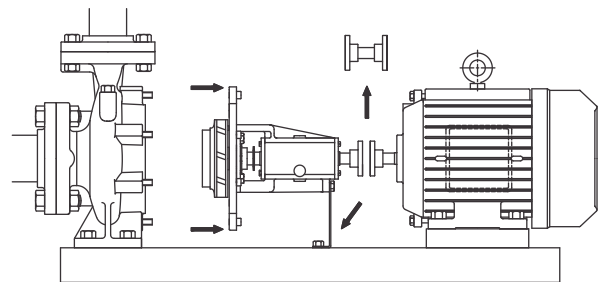
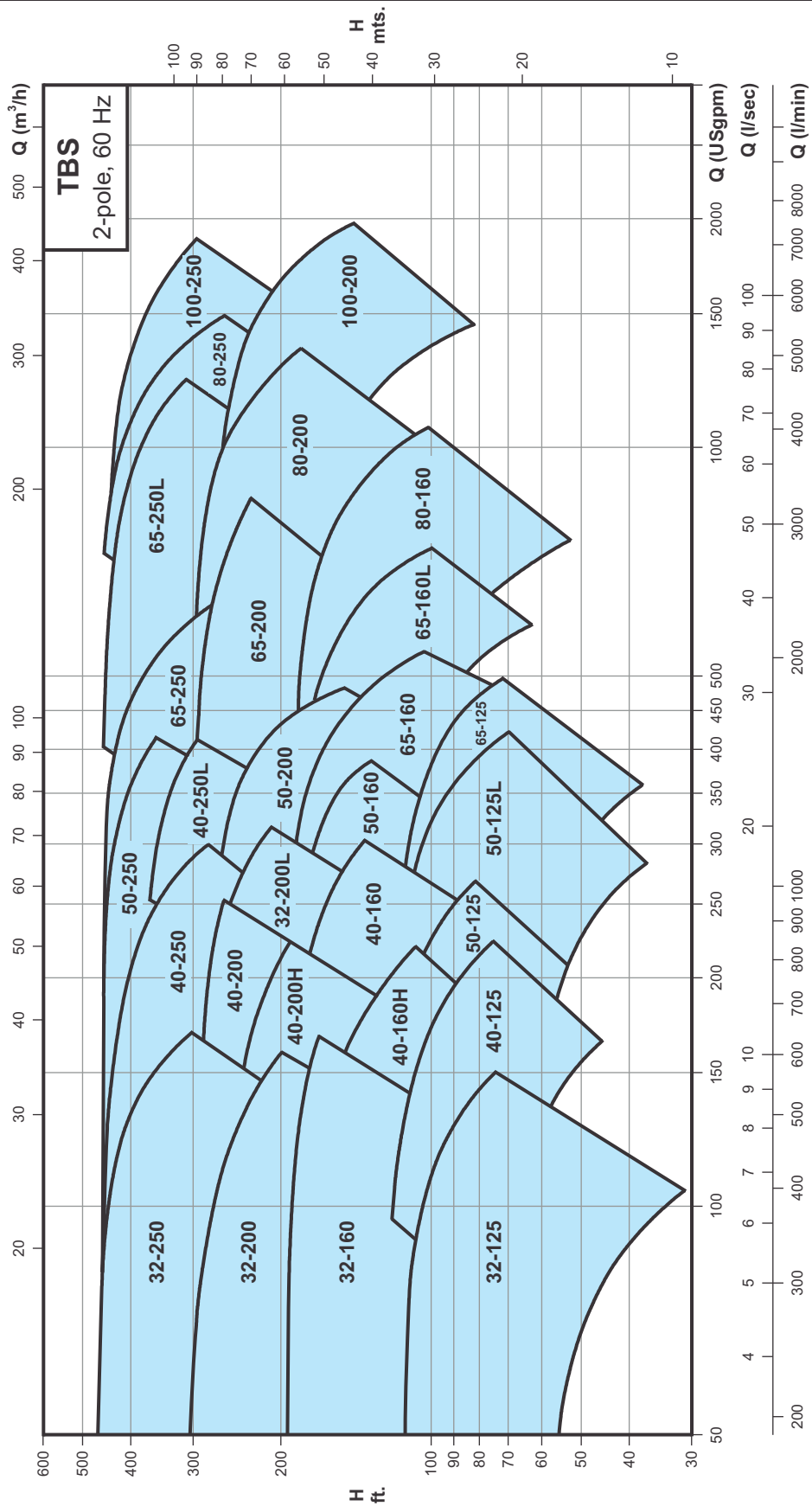


Fig. 1 Back pull-out design

Performance range

Single-stage bare shaft end-suction pumps

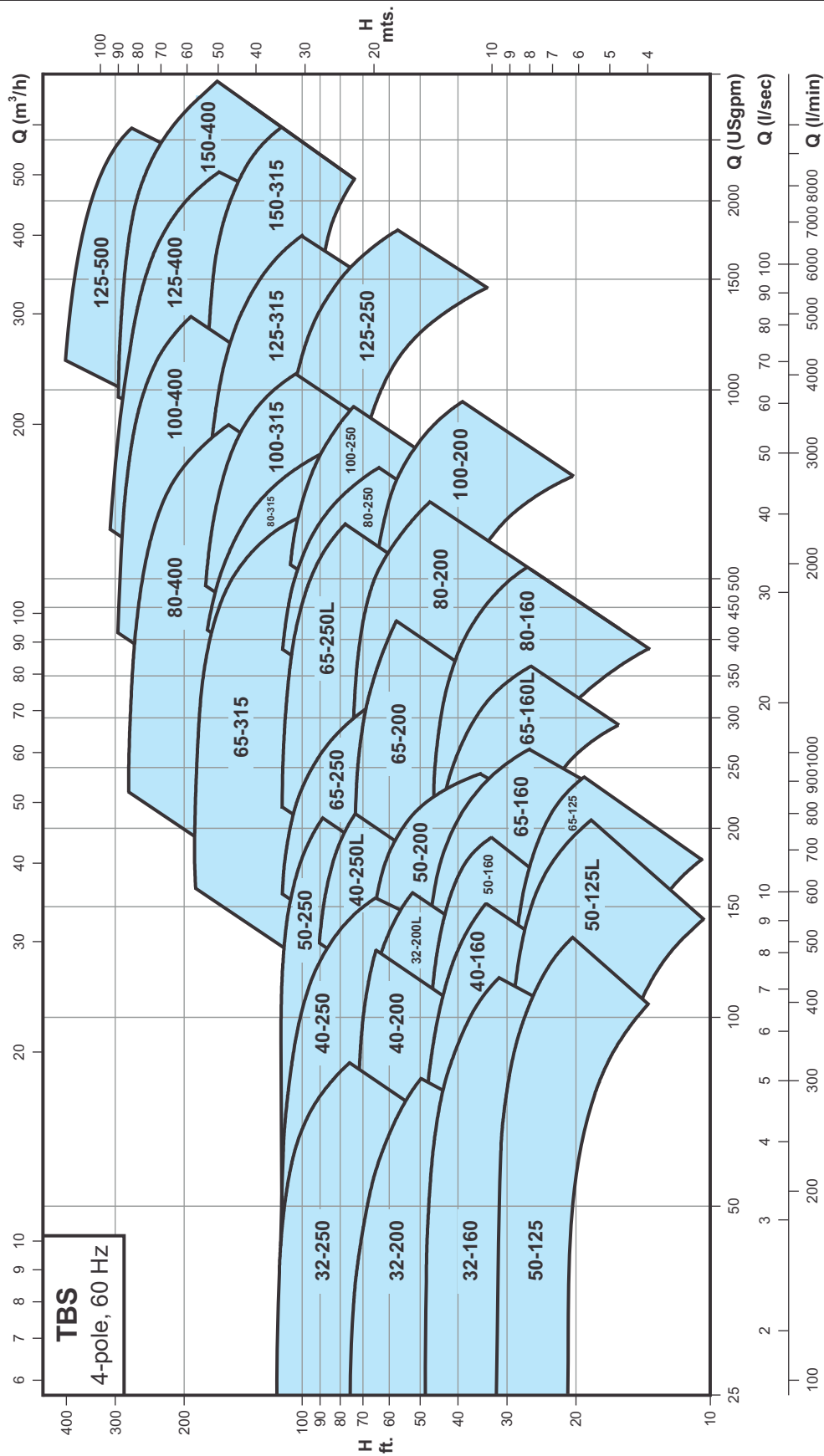
TBS 2-Pole



Performance range

Single-stage bare shaft end-suction pumps

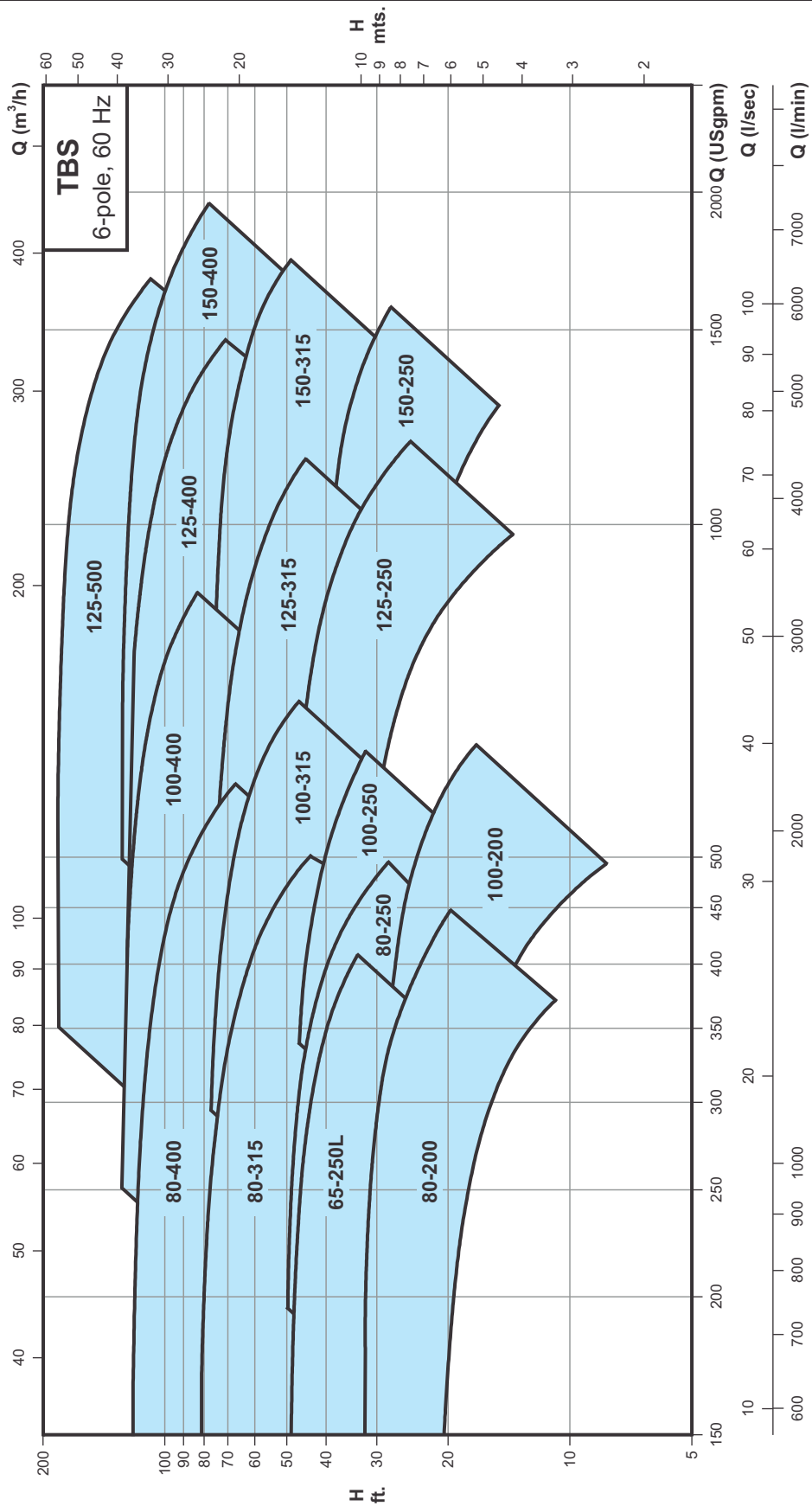
TBS 4-Pole



Performance range

Single-stage bare shaft end-suction pumps

TBS 6-Pole



Construction

Single-stage bare shaft end-suction pumps

TBS

Sectional drawing

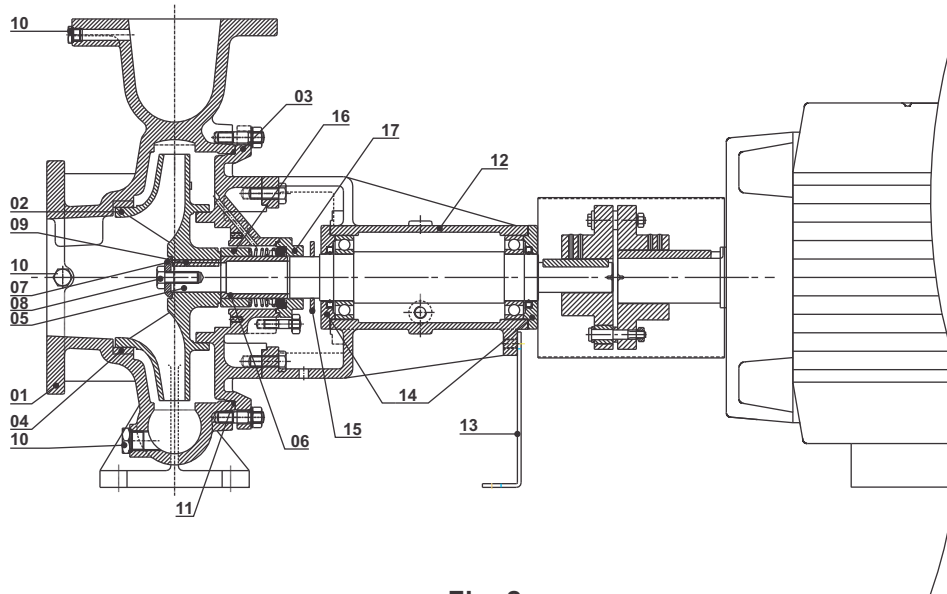


Fig. 2

Materials

Pos.	Component	A-version	B-version	C-version	D-version	E-version	F-version	G-version
1	Volute casing	Cast iron	Cast iron	Cast iron	Cast iron	Bronze	CF-8	CF-8M
2	Impeller	Cast iron	Bronze	CF-8	CF-8M	Bronze	CF-8	CF-8M
3	Back cover	Cast iron	Cast iron	Cast iron	Cast iron	Bronze	CF-8	CF-8M
5	Shaft	Carbon steel	AISI 410	AISI 304	AISI 316	AISI 304	AISI 304	AISI 316
6	Shaft sleeve	AISI 410	AISI 410	AISI 304	AISI 316	Bronze	AISI 304	AISI 316
7	Impeller washer	AISI 410	AISI 410	AISI 304	AISI 316	Bronze	AISI 304	AISI 316
8	Impeller lock pin	AISI 410	AISI 410	AISI 304	AISI 316	AISI 410	AISI 304	AISI 316
9	Impeller key	AISI 410	AISI 410	AISI 304	AISI 316	AISI 410	AISI 304	AISI 316
10	Plugs	Carbon steel	Carbon steel	Carbon steel	Carbon steel	Bronze	AISI 304	AISI 316
11	O-ring	NBR	NBR	NBR	NBR	Viton	Viton	Viton
12	Bearing bracket	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron
13	Foot	Carbon steel	Carbon steel	Carbon steel	Carbon steel	Carbon steel	Carbon steel	Carbon steel
14	Bearing cover	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron
15	Water thrower	NBR	NBR	NBR	NBR	NBR	NBR	NBR
16	Spacer	AISI 410	AISI 410	AISI 304	AISI 316	AISI 304	AISI 304	AISI 316
17	Gland follower	Cast iron	Cast iron	Cast iron	Cast iron	Bronze	CF-8	CF-8M
4	Wear ring*	Cast iron	Bronze	AISI 304	AISI 316	Bronze	CF-8	CF-8M

* Wear ring is available on request only.

Construction

Single-stage bare shaft end-suction pumps

TBS

Construction features

Volute casing

The volute casing of the pumps are designed to be robust in construction to take the undue stresses offered by the pipe work. They have an axial suction port and radial discharge port. Standard flanges are ANSI 125 and ANSI 250 as per ASME B16.1. PN 16 as per DIN standard EN 1092-2 and PN 25 as per DIN standard EN 1092-2 are available on request.

The volute casing are provided with a priming & drain hole closed by plugs.

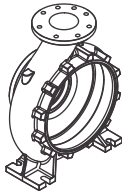


Fig. 3 Volute casing

Motor Adaptor & Back cover

Motor adaptors are robust in construction and are provided with an air vent screw in the shaft seal chamber.

Shaft & bearing bracket

The bearing bracket is provided with 2 properly sized antifriction ball bearings which are permanently lubricated for life. The bearing bracket is made of cast iron of high tensile strength. The shaft are available in carbon steel as well as stainless steel. A shaft sleeve of stainless steel is provided in the stuffing box to protect the shaft from wear and corrosion.

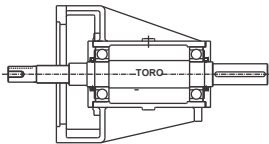


Fig. 4 Shaft & bearing bracket

All pumps are provided with one of four shaft, shaft seal and bearing brackets. As shaft and bearings are strong and properly sized the pump can be driven by a belt drive or diesel engine without any problem.

A water thrower is provided on the shaft to prevent liquid from entering the bearing bracket and damaging the bearing.

Coupling

All pumps can be provided with two types of couplings.

- Standard coupling
- Spacer coupling

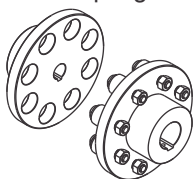


Fig. 5 Standard coupling

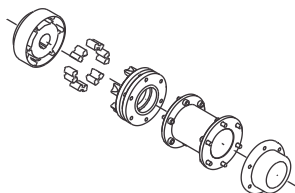


Fig. 6 Spacer coupling

The use of spacer coupling is helpful since pumps fitted with them can be serviced without dismantling the motor from the base frame and also without removing the pipe work or volute casing. Realignment of pump and motor is also not necessary after servicing.

Impeller

The impellers are closed impellers with extra smooth surface finish and machined completely from outside to ensure high efficiency.

The direction of rotation of impeller is clock wise when viewed from the motor non-driving end.

They are dynamically balanced to grade 6.3 of ISO 1940.

All impellers can be trimmed to adopt them for the duty point requested by the customer.

Suggested trimmed impeller diameter as shown on the performance curves are theoretical. Performance may vary from what is shown on the performance curve.



Fig. 7 Impeller

Base frame

Pump and motor are mounted on a common steel base frame in accordance with EN 23661.

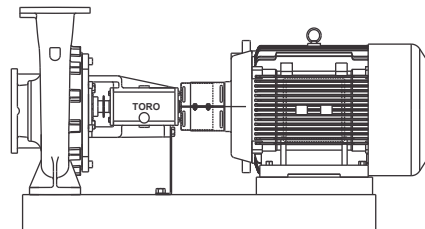


Fig. 8 TBS pump motor unit mounted on a base frame

Test pressure

All pumps are hydrostatic tested for leakage as per the following test pressure using water containing corrosion inhibitor at room temperature.

Pressure rating	Operating pressure	Test pressure
ANSI 125	125 psi	188 psi
ANSI 250	250 psi	375 psi
PN 16	16 bar	24 bar
PN 25	25 bar	37.5 bar

Motors

The motors are squirrel cage induction motors, totally enclosed fan cooled with main dimension to NEMA standards MG 1-2006.

The standard motors supplied with the pumps are all as per high efficiency NEMA standards. Premium efficiency motors can be available on request.

All motors are available with cast iron construction.

Operating conditions

Single-stage bare shaft end-suction pumps

TBS

Sound/Noise levels

As shown in the table below the motor noise levels will not exceed the maximum sound pressure level [db(A)] as per following table.

Motor HP	Maximum sound pressure level [db(A)]		
	Three-phase motors		
	2-pole	4-pole	6-pole
1.00	-	51	49
1.50	68	51	49
2.00	68	51	49
3.00	69	56	55
4.00	69	56	55
5.00	69	56	55
7.50	69	58	57
10.0	72	58	57
15.0	72	69	59
20.0	75	69	59
25.0	75	68	62
30.0	75	68	62
40.0	81	71	65
50.0	81	71	65
60.0	85	75	65
75.0	85	75	65
100.0	84	75	70
125.0	84	79	70
150.0	84	79	73
200.0	87	82	73

Ambient temperature and altitude

The ambient temperature for proper motor operation must not exceed.

- + 104°F for high efficiency motors
- + 140°F for premium efficiency motors.

In case of ambient temperature exceeding 104°F (or 140°F for premium eff.) or if motor is to be installed more than 3280 feet above sea level then a higher output motor should be selected due to low cooling effect. Please refer the chart as shown in fig. 9 for selection of the motors at higher temperature or altitude.

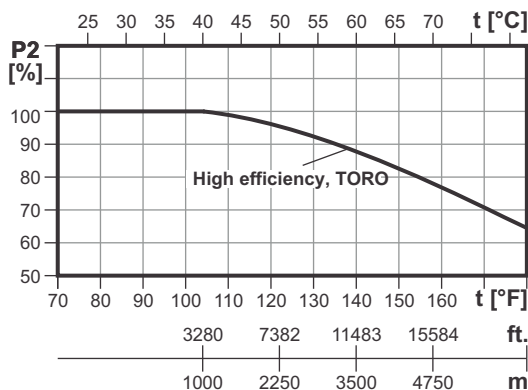


Fig. 9 Motor P2 depend on temperature/altitude

Example

A 20 HP motors has to be increased in output to 25 HP if ambient temperature is 140°F.

A 20 HP motors has to be increased in output to 25 HP if it has to operate at 11483 feet above mean sea level.

Pump location

The Pumps have been designed to operate in non aggressive and non explosive atmosphere.

The relative humidity should not exceed 95%.

Pumped liquids

TBS pumps are designed for non explosive liquids which are clean, and thin without any solid particles.

For aggressive liquid please ensure that material of construction is suitable for liquid to be pumped.

A viscous liquid affects the pump performance in the following ways.

- The power consumption of the pump will increase with increase in viscosity. This will require a larger motor for the pump.
- Head, discharge & pump efficiency will reduce.

A liquid with high density will also affect the performance as follows.

- The power consumption will increase at a ratio corresponding to increase in density. For example a liquid with a specific gravity of 1.30 will require 30% larger motor to drive the pump.
- The head, discharge and pump efficiency will not change with change in density.

Liquid temperature

The TBS pump range covers the temperature range from 32°F to +284°F.

The permissible liquid temperature depends on the type of mechanical shaft seal furnished on the pump.

Please refer the table showing relationship between mechanical shaft seal & temperature.

The maximum liquid temperature is stamped on the nameplate of the pump.

Relationship between shaft seals and temperature

Seal type	Code	Temperature range
Carbon/Ceramic/NBR/S.S.304	1	32°F to +194°F
Sic/Sic/Viton/S.S.316	2	32°F to +194°F
Carbon/Sic/Viton/S.S.316	3	32°F to +284°F

Inlet pressure

- The inlet pressure + shut off pressure (pressure of pump against closed valve) should not exceed the maximum operating pressure of the pump.
- The minimum inlet pressure must be according to the NPSH curve + 2 feet safety margin + correction of vapour pressure.

Motor electrical data

Single-stage bare shaft end-suction pumps

TBS

High efficiency, 2-pole

Rated output		Full load speed [rpm]	Frame size	Full load current in [A] at		Locked rotor current		Full load torque Tn [lb.ft]	Locked rotor torque [Tl/Tn]	Break down torque [Tb/Tn]	Efficiency				Power factor cost	Service factor SF	Approx. weight [lbs]
P2 [HP]	P2 [kW]			230 V	460 V	[KVA code]	[I/In]				% of full load						
											50	75	100	100			
2.00	1.50	3480	145T	5.20	2.60	L	9.4	2.98	2.8	4.0	80.0	82.5	84.0	0.86	1.25	51	
3.00	2.20	3500	182T	7.43	3.71	K	8.2	4.44	2.5	4.0	80.0	84.0	85.5	0.87	1.25	77	
4.00	3.00	3480	184T	10.2	5.10	K	8.2	6.10	2.5	4.0	84.0	86.5	86.5	0.88	1.25	83	
5.00	3.70	3480	184T	11.8	5.90	J	7.7	7.44	2.3	3.3	84.0	86.5	87.5	0.90	1.25	87	
7.50	5.50	3460	184T	17.5	8.76	H	7.0	11.2	2.2	2.3	85.5	87.5	88.5	0.89	1.15	104	
10.0	7.50	3500	215T	23.4	11.7	H	6.9	14.8	2.2	2.8	88.5	89.5	89.5	0.90	1.25	159	
15.0	11.0	3500	254T	34.5	17.3	F	6.1	22.2	2.0	2.2	89.0	90.2	90.2	0.89	1.15	181	
20.0	15.0	3520	256T	46.5	23.3	G	6.2	29.4	2.0	2.5	89.5	90.2	90.2	0.90	1.25	276	
25.0	18.5	3525	284TS	58.0	29.0	G	6.2	36.7	2.0	2.5	90.2	91.0	91.0	0.88	1.25	441	
30.0	22.0	3520	286TS	67.5	33.8	G	6.4	44.2	1.9	2.3	90.2	91.0	91.0	0.90	1.25	474	
40.0	30.0	3550	324TS	92.3	46.1	G	6.4	58.4	2.3	2.4	91.0	91.7	91.7	0.89	1.25	597	
50.0	37.0	3555	326TS	113	56.5	G	6.5	72.9	2.3	2.3	91.0	92.4	92.4	0.89	1.25	642	
60.0	45.0	3555	364TS	138	69.0	G	6.3	87.4	2.0	2.5	91.0	92.4	93.0	0.88	1.25	701	
75.0	55.0	3550	365TS	165	82.5	G	6.5	109	2.0	2.6	91.7	93.0	93.0	0.90	1.25	816	
100.0	75.0	3550	405TS	226	113	G	6.4	149	2.0	2.4	91.7	93.6	93.6	0.89	1.25	1190	
125.0	90.0	3560	444TS	263	131	F	6.6	178	2.0	2.5	92.4	94.1	94.5	0.91	1.15	1398	
150.0	110.0	3575	445TS	320	160	G	6.7	217	2.0	2.5	93.0	94.1	94.5	0.91	1.15	1565	
200.0	150.0	3575	505TS	445	223	G	6.5	296	1.7	2.5	94.1	94.5	95.0	0.89	1.15	2090	

High efficiency, 4-pole

Rated output		Full load speed [rpm]	Frame size	Full load current in [A] at		Locked rotor current		Full load torque Tn [lb.ft]	Locked rotor torque [Tl/Tn]	Break down torque [Tb/Tn]	Efficiency				Power factor cost	Service factor SF	Approx. weight [lbs]
P2 [HP]	P2 [kW]			230 V	460 V	[KVA code]	[I/In]				% of full load						
											50	75	100	100			
1.00	0.75	1765	143T	2.98	1.49	M	8.6	2.94	2.9	4.0	77.0	80.0	82.5	0.77	1.25	46	
1.50	1.10	1760	145T	4.10	2.05	L	8.5	4.42	2.7	3.7	80.0	84.0	84.0	0.80	1.25	49	
2.00	1.50	1750	145T	5.40	2.70	K	7.7	5.92	2.4	3.0	81.5	84.0	84.0	0.83	1.25	53	
3.00	2.20	1765	182T	7.80	3.90	K	7.9	8.81	2.3	3.2	85.5	87.5	87.5	0.81	1.25	82	
4.00	3.00	1750	184T	10.87	5.44	K	7.6	12.1	2.1	3.2	85.5	87.5	87.5	0.81	1.25	86	
5.00	3.70	1750	184T	13.0	6.48	J	7.1	14.8	2.1	3.0	85.5	87.5	87.5	0.82	1.25	90	
7.50	5.50	1765	213T	19.1	9.53	H	6.4	22.0	2.0	2.6	87.5	89.5	89.5	0.81	1.25	152	
10.0	7.50	1760	215T	25.5	12.8	H	6.5	29.4	2.0	2.6	88.5	90.2	90.2	0.82	1.25	177	
15.0	11.0	1760	254T	35.8	17.9	G	6.4	44.2	2.5	2.5	89.5	91.0	91.0	0.85	1.25	248	
20.0	15.0	1755	256T	48.8	24.4	G	5.9	59.0	2.4	2.4	89.5	91.0	91.0	0.85	1.25	294	
25.0	18.5	1760	284T	59.3	29.6	G	6.1	73.6	2.2	2.5	91.7	92.4	92.4	0.85	1.25	478	
30.0	22.0	1755	286T	68.8	34.4	G	6.3	88.6	2.4	2.6	92.4	93.0	92.4	0.87	1.25	514	
40.0	30.0	1770	324T	95.3	47.6	G	6.0	117	2.3	2.3	91.7	93.0	93.0	0.85	1.25	631	
50.0	37.0	1770	326T	116	57.8	G	6.1	146	2.3	2.3	92.4	93.6	93.6	0.86	1.25	679	
60.0	45.0	1775	364T	134	67.0	G	6.4	175	2.0	2.3	93.0	93.6	93.6	0.90	1.25	778	
75.0	55.0	1775	365T	165	82.4	G	6.5	219	2.2	2.4	93.6	94.1	94.1	0.89	1.25	882	
100.0	75.0	1775	405T	229	115	G	6.3	298	2.1	2.2	93.6	94.5	94.5	0.87	1.25	1270	
125.0	90.0	1780	444T	275	138	G	6.4	356	2.0	2.2	93.6	94.5	94.5	0.87	1.15	1618	
150.0	110.0	1780	445T	335	168	G	6.4	436	2.2	2.3	94.1	95.0	95.0	0.87	1.15	2002	
200.0	150.0	1780	505T	460	230	G	6.4	594	2.3	2.4	94.1	95.0	95.0	0.86	1.15	2156	
250.0	185.0	1780	505T	565	283	G	6.5	732	2.1	2.3	94.5	95.0	95.4	0.86	1.15	2315	
300.0	220.0	1790	587T	658	329	G	6.6	866	2.0	2.3	95.0	95.4	95.4	0.88	1.15	3440	

High efficiency, 6-pole

Rated output		Full load speed [rpm]	Frame size	Full load current in [A] at		Locked rotor current		Full load torque Tn [lb.ft]	Locked rotor torque [Tl/Tn]	Break down torque [Tb/Tn]	Efficiency				Power factor cost	Service factor SF	Approx. weight [lbs]
P2 [HP]	P2 [kW]			230 V	460 V	[KVA code]	[I/In]				% of full load						
											50	75	100	100			
1.50	1.10	1165	182T	4.75	2.38	M	8.0	6.65	3.2	4.0	81.5	84.0	85.5	0.68	1.25	77	
2.00	1.50	1165	184T	6.40	3.20	L	7.5	9.07	3.0	3.0	84.0	86.5	86.5	0.68	1.25	82	
3.00	2.20	1170	213T	8.53	4.26	J	7.0	13.3	2.2	2.5	86.5	87.5	87.5	0.74	1.25	159	
4.00	3.00	1160	215T	11.8	5.90	J	6.8	18.2	1.9	2.5	86.5	87.5	87.5	0.74	1.25	164	
5.00	3.70	1160	215T	13.6	6.80	H	6.1	22.5	1.8	2.1	86.5	87.5	87.5	0.78	1.25	169	
7.50	5.50	1170	254T	19.1	9.53	H	6.8	33.1	2.3	3.1	88.5	89.5	89.5	0.81	1.25	220	
10.0	7.50	1175	256T	26.8	13.4	J	6.9	45.0	2.3	2.9	88.5	89.5	89.5	0.79	1.25	249	
15.0	11.0	1180	284T	34.5	17.3	G	6.7	65.7	2.3	2.5	89.5	90.2	91.0	0.88	1.25	437	
20.0	15.0	1175	286T	47.0	23.5	G	6.3	90	2.3	2.5	90.2	91.0	91.0	0.88	1.25	494	
25.0	18.5	1175	324T	59.5	29.8	F	5.9	111	2.2	2.4	89.5	91.7	91.7	0.85	1.25	611	
30.0	22.0	1175	326T	70.8	35.4	G	6.1	132	2.3	2.5	90.2	91.7	91.7	0.85	1.25	637	
40.0	30.0	1175	364T	94.3	47.1	G	6.3	180	2.3	2.3	92.4	93.0	93.0	0.86	1.25	778	
50.0	37.0	1180	365T	116	58.1	G	6.3	221	2.5	2.7	92.4	93.0	93.0	0.86	1.25	864	
60.0	45.0	1180	404T	140	70.1	G	6.3	269	2.5	2.7	93.0	93.6	93.6	0.86	1.25	1129	

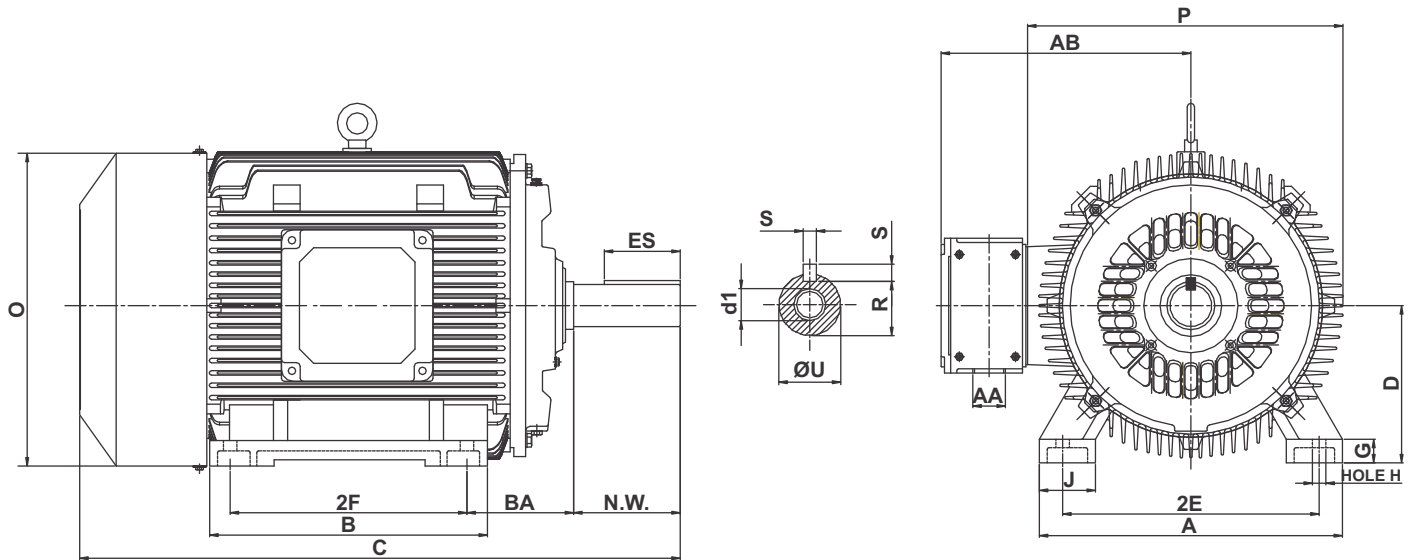


Motor dimensions

Single-stage bare shaft end-suction pumps

TBS

T & TS frame



Frame size	Mounting				A	B	D	G	J	O	P	AB	AA	Shaft Extension		Key Way			C
	2E	2F	H	BA										N-W	U	S	R	ES	
143T	5.5	4.0	0.34	2.25	6.88	6.3	3.5	0.51	1.50	6.97	7.17	5.70	3/4"	2.250	0.875	0.187	0.771	1.410	13.38
145T	5.5	5.0	0.34	2.25	6.88	6.3	3.5	0.51	1.50	6.97	7.17	5.70	3/4"	2.250	0.875	0.187	0.771	1.410	13.38
182T	7.5	4.5	0.406	2.75	9.05	7.08	4.5	0.59	1.65	8.78	8.70	6.46	3/4"	2.750	1.125	0.250	0.986	1.780	16.06
184T	7.5	5.5	0.406	2.75	9.05	7.08	4.5	0.59	1.65	8.78	8.70	6.46	3/4"	2.750	1.125	0.250	0.986	1.780	16.06
213T	8.5	5.5	0.41	3.50	10.1	8.66	5.25	0.70	2.55	10.35	10.31	7.40	1"	3.375	1.375	0.313	1.201	2.410	19.80
215T	8.5	7.0	0.41	3.50	10.1	8.66	5.25	0.70	2.55	10.35	10.31	7.40	1"	3.375	1.375	0.313	1.201	2.410	19.80
254T	10.0	8.25	0.53	4.25	12.2	10.24	6.25	0.70	2.16	12.28	12.16	9.49	1-1/4"	4.000	1.625	0.375	1.416	2.910	23.19
256T	10.0	10.0	0.53	4.25	12.2	11.81	6.25	0.70	2.16	12.28	12.16	9.49	1-1/4"	4.000	1.625	0.375	1.416	2.910	24.84
284T	11.0	9.5	0.53	4.76	13.47	12.20	7.00	1.06	2.60	14.09	14.09	11.57	1-1/2"	4.622	1.875	0.500	1.591	3.280	28.30
284TS	11.0	9.5	0.53	4.76	13.47	12.20	7.00	1.06	2.60	14.09	14.09	11.57	1-1/2"	3.250	1.625	0.375	1.416	1.910	26.97
286T	11.0	11.0	0.53	4.76	13.47	13.39	7.00	1.06	2.60	14.09	14.09	11.57	1-1/2"	4.622	1.875	0.500	1.591	3.280	29.84
286TS	11.0	11.0	0.53	4.76	13.47	13.39	7.00	1.06	2.60	14.09	14.09	11.57	1-1/2"	3.250	1.625	0.375	1.416	1.910	28.46
324T	12.5	10.5	0.66	5.25	15.75	15.35	8.00	1.18	3.39	15.62	15.24	12.05	2"	5.250	2.125	0.500	1.845	3.910	32.32
324TS	12.5	10.5	0.66	5.25	15.75	15.35	8.00	1.18	3.39	15.62	15.24	12.05	2"	3.750	1.875	0.500	1.591	2.030	30.82
326T	12.5	12.0	0.66	5.25	15.75	15.35	8.00	1.18	3.39	15.62	15.24	12.05	2"	5.250	2.125	0.500	1.845	3.910	32.32
326TS	12.5	12.0	0.66	5.25	15.75	15.35	8.00	1.18	3.39	15.62	15.24	12.05	2"	3.750	1.875	0.500	1.591	2.030	30.82
364T	14.0	11.25	0.66	5.86	17.72	14.57	9.00	1.26	3.35	17.28	17.00	12.91	3"	5.874	2.375	0.625	2.021	4.280	33.42
364TS	14.0	11.25	0.66	5.86	17.72	14.57	9.00	1.26	3.35	17.28	17.00	12.91	3"	3.748	1.875	0.500	1.591	2.030	31.30
365T	14.0	12.25	0.66	5.86	17.72	15.55	9.00	1.26	3.35	17.28	17.00	12.91	3"	5.874	2.375	0.625	2.021	4.280	34.40
365TS	14.0	12.25	0.66	5.86	17.72	15.55	9.00	1.26	3.35	17.28	17.00	12.91	3"	3.748	1.875	0.500	1.591	2.030	32.28
404T	15.98	12.25	0.807	6.625	20.0	16.73	10.00	1.65	3.93	19.6	19.76	16.30	3"	7.250	2.875	0.750	2.449	5.512	38.46
405T	15.98	13.74	0.807	6.625	20.0	16.73	10.00	1.65	3.93	19.6	19.76	16.30	3"	7.250	2.875	0.750	2.449	5.512	38.46
405TS	15.98	13.74	0.807	6.625	20.0	16.73	10.00	1.65	3.93	19.6	19.76	16.30	3"	4.250	2.125	0.500	1.842	2.756	35.47
444T	18.0	14.5	0.807	7.50	21.26	19.29	11.00	1.65	3.93	21.85	22.12	17.50	3"	8.500	3.375	0.875	2.880	7.087	42.79
444TS	18.0	14.5	0.807	7.50	21.26	19.29	11.00	1.65	3.93	21.85	22.12	17.50	3"	4.750	2.375	0.625	2.021	3.000	39.05
445T	18.0	16.5	0.807	7.50	21.26	19.29	11.00	1.65	3.93	21.85	22.12	17.50	3"	8.500	3.375	0.875	2.880	7.087	42.77
445TS	18.0	16.5	0.807	7.50	21.26	19.29	11.00	1.65	3.93	21.82	22.12	17.50	3"	4.750	2.375	0.625	2.021	3.000	39.05
505T	20.0	18.0	1.25	8.50	24.4	20.98	12.50	1.81	4.40	24.21	23.62	19.37	3"	10.630	3.625	0.875	3.134	8.661	49.45
505TS	20.0	18.0	1.25	8.50	24.4	20.98	12.50	1.81	4.40	24.21	23.62	19.37	3"	4.750	2.375	0.625	2.021	3.000	43.57
587T	23.0	25.0	1.18	10.0	29.5	29.92	14.50	2.48	5.12	29.06	32.12	26.77	3"	11.625	3.875	1.000	3.312	8.661	61.07

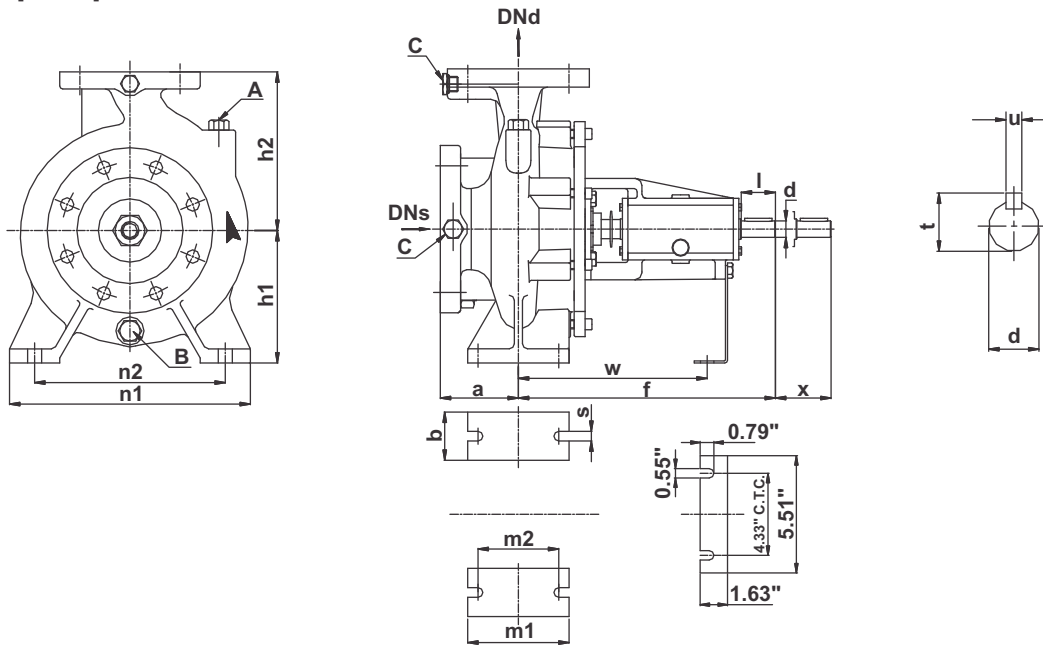
All dimensions in inches unless otherwise noted.

Dimensions

Single-stage bare shaft end-suction pumps

TBS

Bare shaft pumps



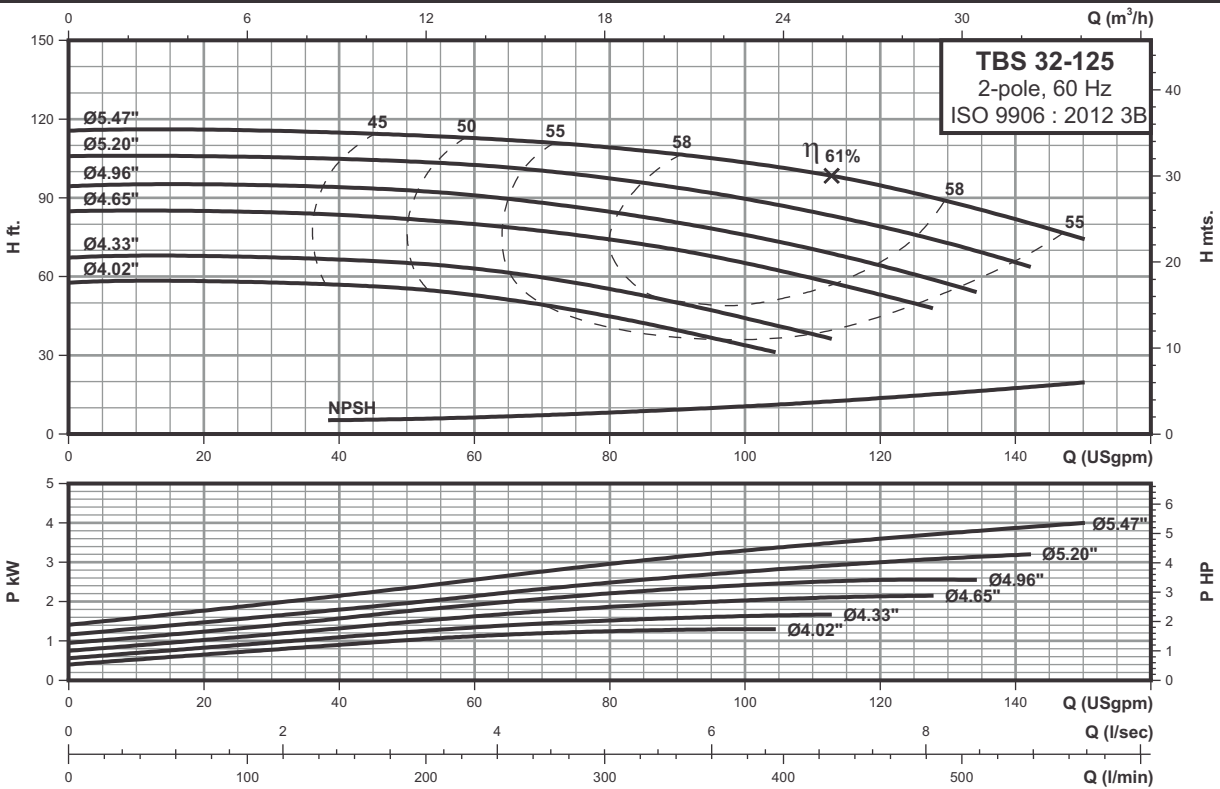
TYPE	DNs	DNd	a	b	d.k6	f	h1	h2	l	m1	m2	n1	n2	s	t	u	w	x	A	B	C	Net weight lbs	Gross weight lbs	Volume ft ³
TBS 32-125	2.00	1.25	3.15	1.97	0.94	14.17	4.41	5.51	1.97	3.94	2.76	7.48	5.51	0.55	1.06	0.31	10.24	3.1	Ø3/8	Ø1/2	Ø1/4	62	84	2.96
TBS 32-160	2.00	1.25	3.15	1.97	0.94	14.17	5.20	6.30	1.97	3.94	2.76	9.45	7.48	0.55	1.06	0.31	10.24	3.5	Ø3/8	Ø1/2	Ø1/4	81	103	2.96
TBS 32-200	2.00	1.25	3.15	1.97	0.94	14.17	6.30	7.09	1.97	3.94	2.76	9.45	7.48	0.55	1.06	0.31	10.24	3.1	Ø3/8	Ø1/2	Ø1/4	92	114	2.96
TBS 32-200L	2.00	1.25	3.15	1.97	0.94	14.17	6.30	7.09	1.97	3.94	2.76	9.45	7.48	0.55	1.06	0.31	10.24	3.1	Ø3/8	Ø1/2	Ø1/4	88	110	2.96
TBS 32-250	2.00	1.25	3.94	2.56	0.94	14.17	7.09	8.86	1.97	4.92	3.74	12.60	9.84	0.55	1.06	0.31	10.24	3.9	Ø3/8	Ø1/2	Ø1/4	103	125	5.00
TBS 40-125	2.50	1.50	3.15	1.97	0.94	14.17	4.41	5.51	1.97	3.94	2.76	8.27	6.30	0.55	1.06	0.31	10.24	3.5	Ø3/8	Ø1/2	Ø1/4	66	88	2.96
TBS 40-125L	2.50	1.50	3.15	1.97	0.94	14.17	4.41	5.51	1.97	3.94	2.76	8.27	6.30	0.55	1.06	0.31	10.24	3.5	Ø3/8	Ø1/2	Ø1/4	66	88	2.96
TBS 40-160	2.50	1.50	3.15	1.97	0.94	14.17	5.20	6.30	1.97	3.94	2.76	9.45	7.48	0.55	1.06	0.31	10.24	3.5	Ø3/8	Ø1/2	Ø1/4	73	95	2.96
TBS 40-160H	2.50	1.50	3.15	1.97	0.94	14.17	5.20	6.30	1.97	3.94	2.76	9.45	7.48	0.55	1.06	0.31	10.24	3.5	Ø3/8	Ø1/2	Ø1/4	73	95	2.96
TBS 40-200	2.50	1.50	3.94	1.97	0.94	14.17	6.30	7.09	1.97	3.94	2.76	10.43	8.35	0.55	1.06	0.31	10.24	3.5	Ø3/8	Ø1/2	Ø1/4	84	106	2.96
TBS 40-200H	2.50	1.50	3.94	1.97	0.94	14.17	6.30	7.09	1.97	3.94	2.76	10.43	8.35	0.55	1.06	0.31	10.24	3.5	Ø3/8	Ø1/2	Ø1/4	84	106	2.96
TBS 40-250	2.50	1.50	3.94	2.56	0.94	14.17	7.09	8.86	1.97	4.92	3.74	12.60	9.84	0.55	1.06	0.31	10.24	4.3	Ø3/8	Ø1/2	Ø1/4	112	134	5.00
TBS 40-250L	2.50	1.50	3.94	2.56	0.94	14.17	7.09	8.86	1.97	4.92	3.74	12.60	9.84	0.55	1.06	0.31	10.24	4.3	Ø3/8	Ø1/2	Ø1/4	112	134	5.00
TBS 50-125	2.50	2.00	3.94	1.97	0.94	14.17	5.20	6.30	1.97	3.94	2.76	9.45	7.48	0.55	1.06	0.31	10.24	3.5	Ø3/8	Ø1/2	Ø1/4	70	92	2.96
TBS 50-125L	2.50	2.00	3.94	1.97	0.94	14.17	5.20	6.30	1.97	3.94	2.76	9.45	7.48	0.55	1.06	0.31	10.24	3.5	Ø3/8	Ø1/2	Ø1/4	70	92	2.96
TBS 50-160	2.50	2.00	3.94	1.97	0.94	14.17	6.30	7.09	1.97	3.94	2.76	10.43	8.35	0.55	1.06	0.31	10.24	3.9	Ø3/8	Ø1/2	Ø1/4	81	103	2.96
TBS 50-200	2.50	2.00	3.94	1.97	0.94	14.17	6.30	7.87	1.97	3.94	2.76	10.43	8.35	0.55	1.06	0.31	10.24	4.3	Ø3/8	Ø1/2	Ø1/4	90	112	5.00
TBS 50-250	2.50	2.00	3.94	2.56	0.94	14.17	7.09	8.86	1.97	4.92	3.74	12.60	9.84	0.55	1.06	0.31	10.24	4.7	Ø3/8	Ø1/2	Ø1/4	117	139	5.00
TBS 65-125	3.00	2.50	3.94	2.56	0.94	14.17	6.30	7.09	1.97	4.92	3.74	11.02	8.35	0.55	1.06	0.31	10.24	3.5	Ø3/8	Ø1/2	Ø1/4	86	108	2.96
TBS 65-160	3.00	2.50	3.94	2.56	0.94	14.17	6.30	7.87	1.97	4.92	3.74	11.02	8.35	0.55	1.06	0.31	10.24	3.5	Ø3/8	Ø1/2	Ø1/4	99	121	5.00
TBS 65-160L	3.00	2.50	3.94	2.56	0.94	14.17	6.30	7.87	1.97	4.92	3.74	11.02	8.35	0.55	1.06	0.31	10.24	3.9	Ø3/8	Ø1/2	Ø1/4	99	121	5.00
TBS 65-200	3.00	2.50	3.94	2.56	0.94	14.17	7.09	8.86	1.97	4.92	3.74	12.60	9.84	0.55	1.06	0.31	10.24	4.3	Ø3/8	Ø1/2	Ø1/4	101	123	5.00
TBS 65-250	3.00	2.50	3.94	3.15	1.26	18.50	7.87	9.84	3.15	6.30	4.72	14.17	11.02	0.71	1.38	0.39	13.39	4.7	Ø3/8	Ø1/2	Ø1/4	167	189	7.93
TBS 65-315	3.00	2.50	4.92	3.15	1.26	18.50	8.86	11.02	3.15	6.30	4.72	15.75	12.40	0.71	1.38	0.39	13.39	5.1	Ø3/8	Ø1/2	Ø1/4	207	229	7.93
TBS 80-160	4.00	3.00	4.92	2.56	0.94	14.17	7.09	8.86	1.97	4.92	3.74	12.60	9.84	0.55	1.06	0.31	10.24	5.1	Ø3/8	Ø1/2	Ø1/4	114	136	5.00
TBS 80-200	4.00	3.00	4.92	2.56	1.26	18.50	7.09	9.84	3.15	4.92	3.74	13.58	11.02	0.55	1.38	0.39	13.39	5.1	Ø3/8	Ø1/2	Ø1/4	150	172	7.93
TBS 80-250	4.00	3.00	4.92	3.15	1.26	18.50	7.87	11.02	3.15	6.30	4.72	15.75	12.40	0.71	1.38	0.39	13.39	5.1	Ø3/8	Ø1/2	Ø1/4	180	202	7.93
TBS 65-250L	4.00	2.50	3.94	3.15	1.26	18.50	7.87	9.84	3.15	6.30	4.72	14.17	11.02	0.71	1.38	0.39	13.39	4.7	Ø3/8	Ø1/2	Ø1/4	167	189	7.93
TBS 80-315	4.00	3.00	4.92	3.15	1.26	18.50	9.84	12.40	3.15	6.30	4.72	15.75	12.40	0.71	1.38	0.39	13.39	5.5	Ø3/8	Ø1/2	Ø1/4	209	354	13.74
TBS 80-400	4.00	3.00	5.51	3.15	1.65	20.87	11.02	13.98	4.33	6.30	4.72	17.13	13.98	0.71	1.77	0.47	14.57	6.1	Ø3/8	Ø1/2	Ø1/4	319	464	17.27
TBS 100-200	5.00	4.00	4.92	3.15	1.26	18.50	7.87	11.02	3.15	6.30	4.72	14.17	11.02	0.71	1.38	0.39	13.39	5.5	Ø3/8	Ø1/2	Ø1/4	174	196	7.93
TBS 100-250	5.00	4.00	5.51	3.15	1.26	18.50	8.86	11.02	3.15	6.30	4.72	15.75	12.40	0.71	1.38	0.39	13.39	5.5	Ø3/8	Ø1/2	Ø1/4	198	220	7.93
TBS 100-315	5.00	4.00	5.51	3.15	1.26	18.50	9.84	12.40	3.15	6.30	4.72	15.75	12.40	0.71	1.38	0.39	13.39	6.1	Ø3/8	Ø1/2	Ø1/4	229	374	13.74
TBS 100-400	5.00	4.00	5.51	3.94	1.65	20.87	11.02	13.98	4.33	7.87	5.91	19.69	15.75	0.87	1.77	0.47	14.57	6.7	Ø3/8	Ø1/2	Ø1/4	319	464	17.27
TBS 125-250	6.00	5.00	5.51	3.15	1.26	18.50	9.84	13.98	3.15	6.30	4.72	15.75	12.40	0.71	1.38	0.39	13.39	5.9	Ø3/8	Ø1/2	Ø1/4	257	403	13.74
TBS 125-315	6.00	5.00	5.51	3.94	1.65	20.87	11.02	13.98	4.33	7.87	5.91	19.69	15.75	0.87	1.77	0.47	14.57	6.3	Ø3/8	Ø1/2	Ø1/4	312	458	17.27
TBS 125-400	6.00	5.00	5.51	3.94	1.65	20.87	12.40	15.75	4.33	7.87	5.91	19.69	15.75	0.87	1.77	0.47	14.57	6.7	Ø3/8	Ø1/2	Ø1/4	392	568	21.96
TBS 125-500	6.00	5.00	7.09	4.92	2.36	26.38	15.75	19.69	4.33	7.87	5.91	24.61	19.69	0.87	2.48	0.71	19.69	5.5	Ø3/8	Ø1/2	Ø1/4	587	807	34.47
TBS 150-250	8.00	6.00	6.30	3.94	1.65	20.87	11.02	14.76	4.33	7.87	5.91	19.69	15.75	0.87	1.77	0.47	14.57	5.51	Ø3/8	Ø1/2	Ø1/4	312	458	15.47
TBS 150-315	8.00	6.00	6.30	3.94	1.65	20.87	11.02	15.75	4.33	7.87	5.91	21.65	17.72	0.87	1.77	0.47	14.57	7.1	Ø3/8	Ø1/2	Ø1/4	367	543	21.96
TBS 150-400	8.00	6.00	6.30	3.94	1.65	20.87	12.40	17.72	4.33	7.87	5.91	21.65	17.72	0.87	1.77	0.47	14.57	7.5	Ø3/8	Ø1/2	Ø1/4	440	616	21.96
TBS 150-500	8.00	6.00	7.09	4.92	2.36	26.38	15.75	19.69	4.33	7.87	5.91	24.61	19.69	0.87	2.54	0.71	19.69	5.51	Ø3/8	Ø1/2	Ø1/4	671	902	35.28

All dimensions in inches unless otherwise noted.

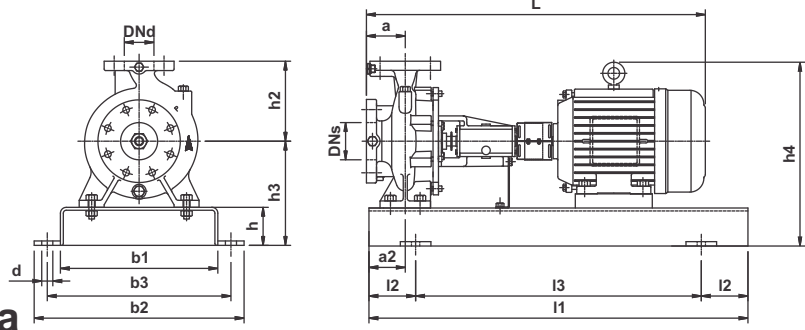
Performance curves

TBS 32-125 2-pole

Single-stage bare shaft end-suction pumps



2 POLE



Technical data

Power	(hp)	2	3	4	5
	(kw)	1.5	2.2	3	3.7
Frame		145T	182T	184T	184T
ANSI flange		125	125	125	125
DNs	inch(mm)	2.00(50)	2.00(50)	2.00(50)	2.00(50)
DNd	inch(mm)	1.25(32)	1.25(32)	1.25(32)	1.25(32)
a	inch(mm)	3.15(80)	3.15(80)	3.15(80)	3.15(80)
h2	inch(mm)	5.51(140)	5.51(140)	5.51(140)	5.51(140)
L	inch(mm)	31.30(795)	33.90(861)	33.90(861)	33.90(861)
l1	inch(mm)	35.43(900)	35.43(900)	35.43(900)	35.43(900)
l2	inch(mm)	5.90(150)	5.90(150)	5.90(150)	5.90(150)
l3	inch(mm)	23.62(600)	23.62(600)	23.62(600)	23.62(600)
b1	inch(mm)	11.81(300)	11.81(300)	11.81(300)	11.81(300)
b2	inch(mm)	15.35(390)	15.35(390)	15.35(390)	15.35(390)
b3	inch(mm)	13.77(350)	13.77(350)	13.77(350)	13.77(350)
d	inch(mm)	0.74(19)	0.74(19)	0.74(19)	0.74(19)
a2	inch(mm)	2.36(60)	2.36(60)	2.36(60)	2.36(60)
h	inch(mm)	2.55(65)	2.55(65)	2.55(65)	2.55(65)
h3	inch(mm)	6.97(177)	6.97(177)	6.97(177)	6.97(177)
h4	inch(mm)	12.20(310)	13.11(333)	13.11(333)	13.11(333)
Base frame no.		3	3	3	3
Net Weight	lbs(kg)	147(67)	174(79)	179(82)	184(84)
Gross Weight	lbs(kg)	266(121)	293(133)	298(136)	303(138)
Volume	ft³(m³)	12.92(0.366)	12.92(0.366)	12.92(0.366)	12.92(0.366)

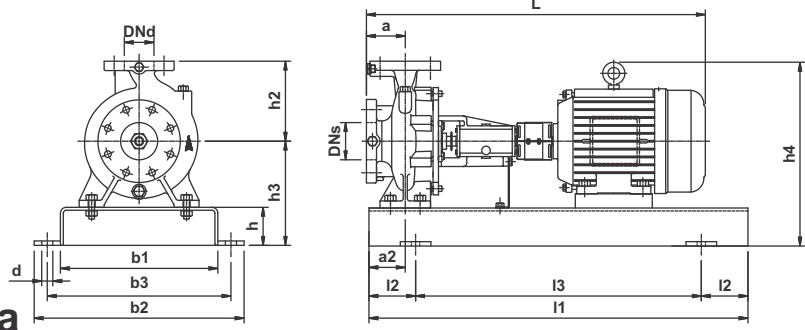
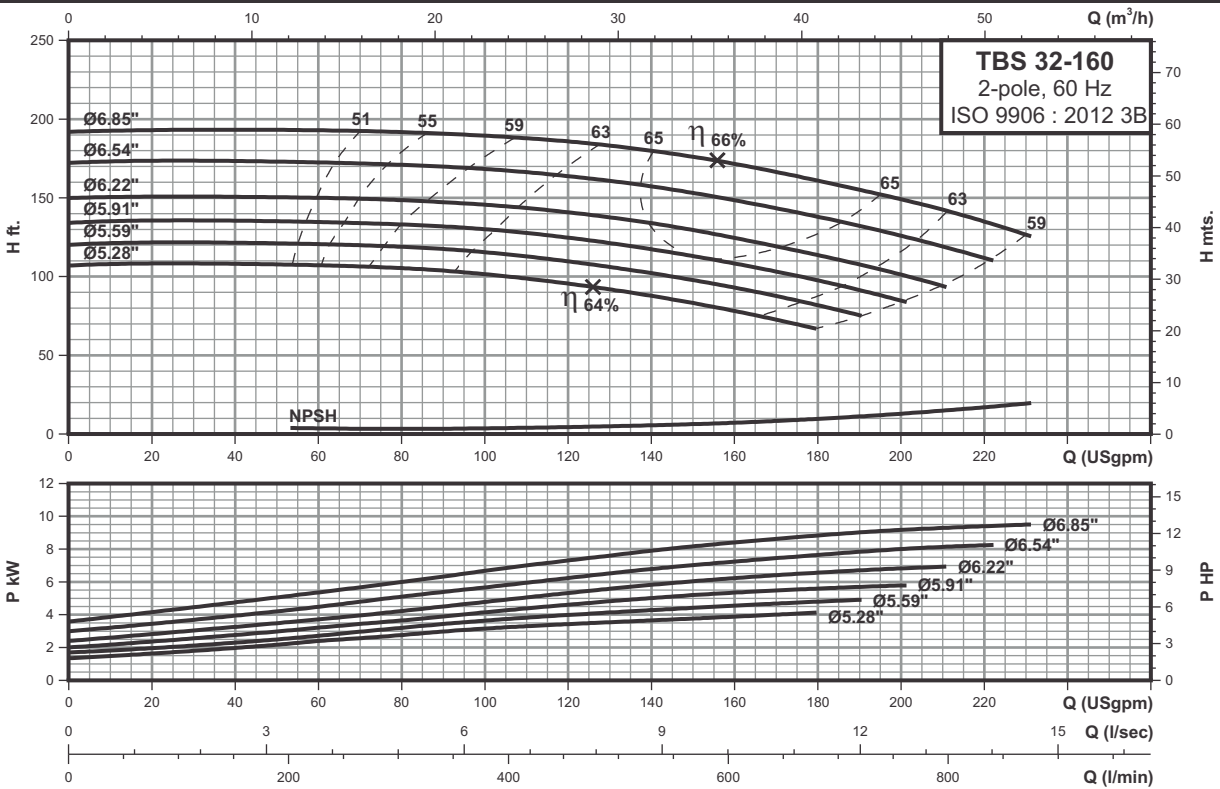
Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

Performance curves

TBS 32-160 2-pole

Single-stage bare shaft end-suction pumps

2 POLE



Technical data

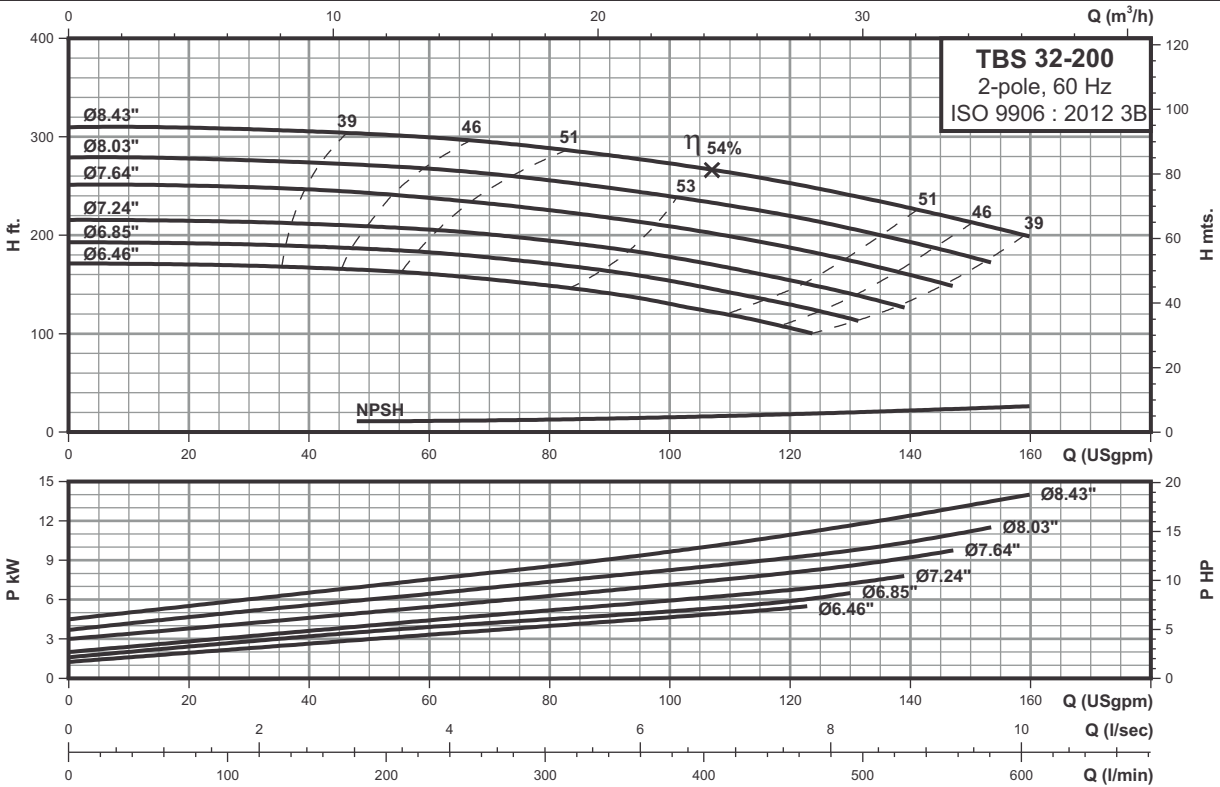
Power	(hp)	5	7.5	10	15
	(kw)	3.7	5.5	7.5	11
Frame		184T	184T	215T	254T
ANSI flange		125	125	125	125
DNs	inch(mm)	2.00(50)	2.00(50)	2.00(50)	2.00(50)
DNd	inch(mm)	1.25(32)	1.25(32)	1.25(32)	1.25(32)
a	inch(mm)	3.15(80)	3.15(80)	3.15(80)	3.15(80)
h2	inch(mm)	6.30(160)	6.30(160)	6.30(160)	6.30(160)
L	inch(mm)	33.90(861)	35.87(911)	37.99(965)	41.38(1051)
l1	inch(mm)	35.43(900)	35.43(900)	39.37(1000)	44.09(1120)
l2	inch(mm)	5.90(150)	5.90(150)	6.69(170)	7.48(190)
l3	inch(mm)	23.62(600)	23.62(600)	25.98(660)	29.13(740)
b1	inch(mm)	11.81(300)	11.81(300)	13.39(340)	14.96(380)
b2	inch(mm)	15.35(390)	15.35(390)	17.72(450)	19.29(490)
b3	inch(mm)	13.77(350)	13.77(350)	15.75(400)	17.32(440)
d	inch(mm)	0.74(19)	0.74(19)	0.94(24)	0.94(24)
a2	inch(mm)	2.36(60)	2.36(60)	2.36(60)	2.36(60)
h	inch(mm)	2.55(65)	2.55(65)	3.15(80)	3.15(80)
h3	inch(mm)	7.76(197)	7.76(197)	8.35(212)	9.45(240)
h4	inch(mm)	13.90(353)	13.82(351)	15.67(398)	18.19(462)
Base frame no.		3	3	4	5
Net Weight	lbs(kg)	204(93)	223(102)	296(135)	330(150)
Gross Weight	lbs(kg)	226(103)	342(156)	465(212)	499(226)
Volume	ft³(m³)	12.92(0.366)	12.92(0.366)	22.70(0.643)	22.70(0.643)

Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

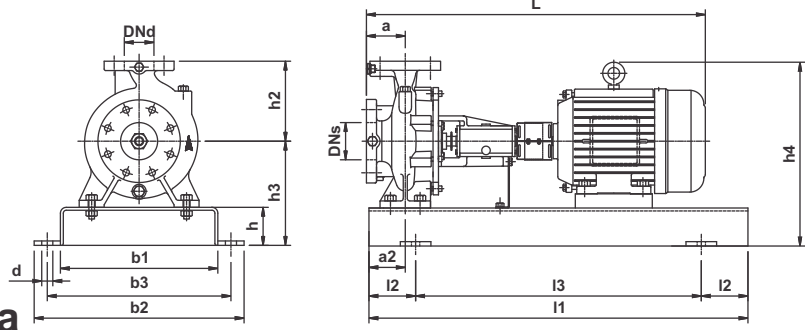
Performance curves

Single-stage bare shaft end-suction pumps

TBS 32-200 2-pole



2 POLE



Technical data

Power	(hp)	7.5	10	15	20
	(kw)	5.5	7.5	11	15
Frame		184T	215T	254T	256T
ANSI flange		125	125	125	250
DNs	inch(mm)	2.00(50)	2.00(50)	2.00(50)	2.00(50)
DNd	inch(mm)	1.25(32)	1.25(32)	1.25(32)	1.25(32)
a	inch(mm)	3.15(80)	3.15(80)	3.15(80)	3.15(80)
h2	inch(mm)	7.09(180)	7.09(180)	7.09(180)	7.09(180)
L	inch(mm)	35.87(911)	37.99(965)	41.38(1051)	43.03(1093)
l1	inch(mm)	35.43(900)	39.37(1000)	44.09(1120)	44.09(1120)
l2	inch(mm)	5.91(150)	6.69(170)	7.48(190)	7.48(190)
l3	inch(mm)	23.62(600)	25.98(660)	29.13(740)	29.13(740)
b1	inch(mm)	11.81(300)	13.39(340)	14.96(380)	14.96(380)
b2	inch(mm)	15.35(390)	17.72(450)	19.29(490)	19.29(490)
b3	inch(mm)	13.78(350)	15.75(400)	17.32(440)	17.32(440)
d	inch(mm)	0.75(19)	0.94(24)	0.94(24)	0.94(24)
a2	inch(mm)	2.36(60)	2.36(60)	2.36(60)	2.36(60)
h	inch(mm)	2.56(65)	3.15(80)	3.15(80)	3.15(80)
h3	inch(mm)	8.86(225)	9.45(240)	9.45(240)	9.45(240)
h4	inch(mm)	14.92(379)	16.77(426)	18.19(462)	18.19(462)
Base frame no.		3	4	5	5
Net Weight	lbs(kg)	234(107)	307(140)	391(178)	424(193)
Gross Weight	lbs(kg)	253(161)	476(217)	560(255)	593(270)
Volume	ft³(m³)	12.92(0.366)	22.70(0.643)	22.70(0.643)	22.70(0.643)

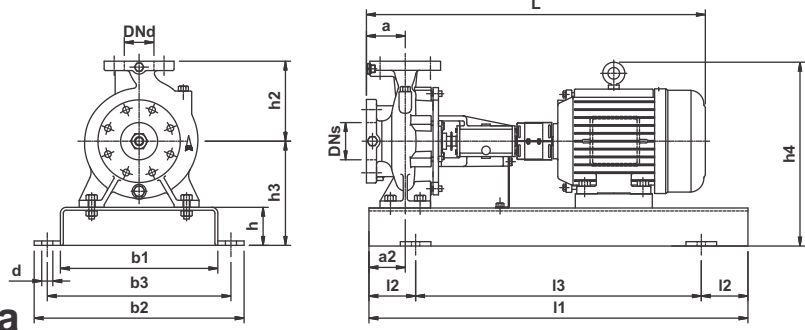
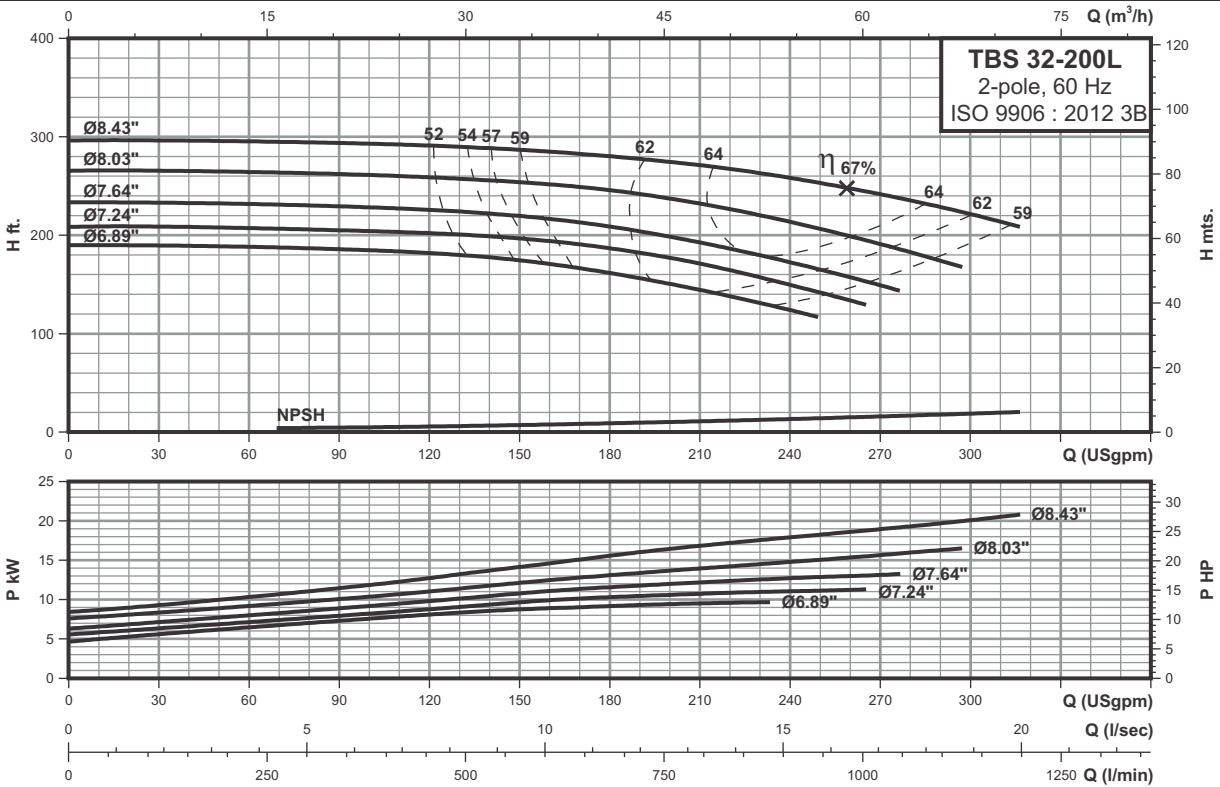
Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

Performance curves

Single-stage bare shaft end-suction pumps

TBS 32-200L 2-pole

2 POLE



Technical data

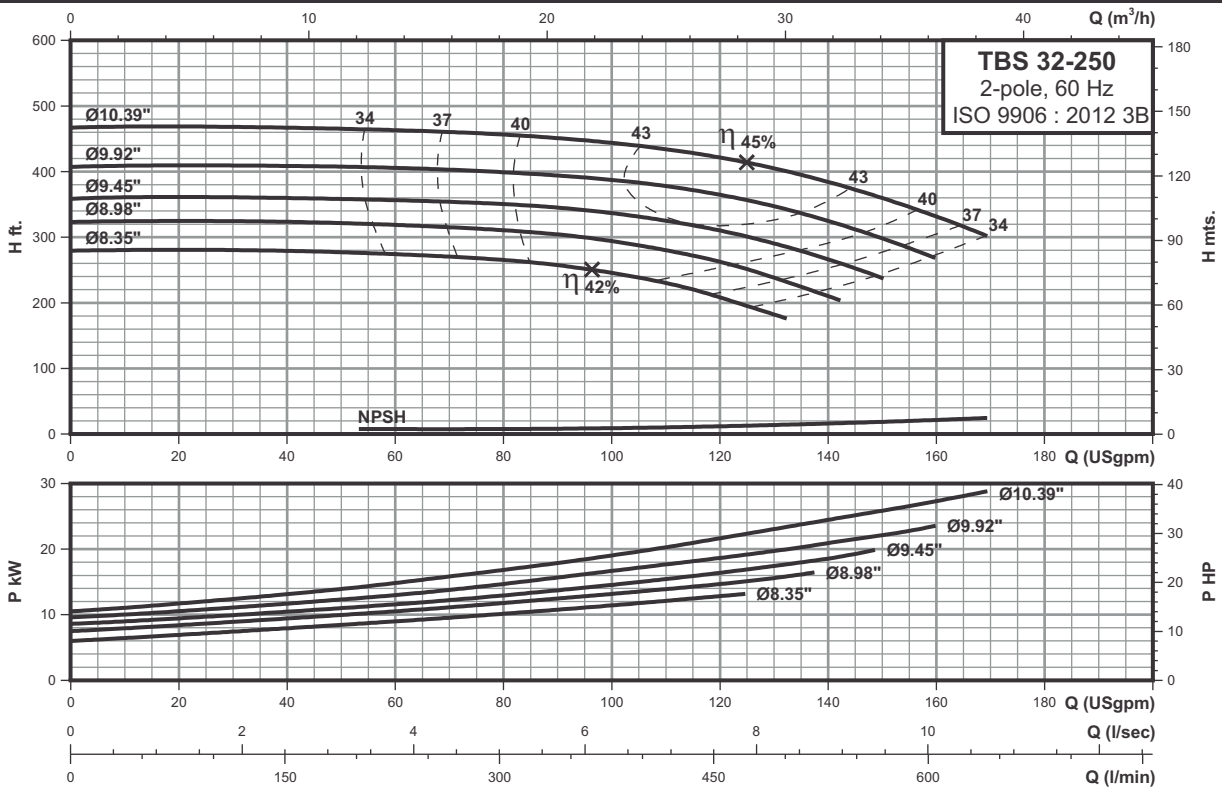
Power	(hp)	15	20	25	30
	(kw)	11	15	18.5	22
Frame		254T	256T	284TS	286TS
ANSI flange		125	125	125	250
DNs	inch(mm)	2.00(50)	2.00(50)	2.00(50)	2.00(50)
DNd	inch(mm)	1.25(32)	1.25(32)	1.25(32)	1.25(32)
a	inch(mm)	3.15(80)	3.15(80)	3.15(80)	3.15(80)
h2	inch(mm)	7.09(180)	7.09(180)	7.09(180)	7.09(180)
L	inch(mm)	41.38(1051)	43.03(1093)	45.28(1150)	46.77(1188)
l1	inch(mm)	44.09(1120)	44.09(1120)	44.09(1120)	44.09(1120)
l2	inch(mm)	7.48(190)	7.48(190)	7.48(190)	7.48(190)
l3	inch(mm)	29.13(740)	29.13(740)	29.13(740)	29.13(740)
b1	inch(mm)	14.96(380)	14.96(380)	14.96(380)	14.96(380)
b2	inch(mm)	19.29(490)	19.29(490)	19.29(490)	19.29(490)
b3	inch(mm)	17.32(440)	17.32(440)	17.32(440)	17.32(440)
d	inch(mm)	0.94(24)	0.94(24)	0.94(24)	0.94(24)
a2	inch(mm)	2.36(60)	2.36(60)	2.36(60)	2.36(60)
h	inch(mm)	3.15(80)	3.15(80)	3.15(80)	3.15(80)
h3	inch(mm)	9.45(240)	9.45(240)	10.16(258)	10.16(258)
h4	inch(mm)	18.19(462)	18.19(462)	19.65(499)	19.65(499)
Base frame no.		5	5	5	5
Net Weight	lbs(kg)	386(176)	419(191)	579(263)	612(278)
Gross Weight	lbs(kg)	555(253)	588(268)	748(340)	781(355)
Volume	ft³(m³)	22.70(0.643)	22.70(0.643)	22.70(0.643)	22.70(0.643)

Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

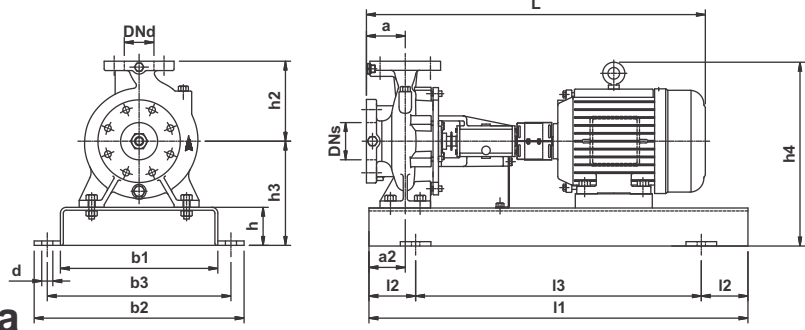
Performance curves

Single-stage bare shaft end-suction pumps

TBS 32-250 2-pole



2 POLE



Technical data

Power	(hp)	20	25	30	40
	(kw)	15	18.5	22	30
Frame		256T	284TS	286TS	324TS
ANSI flange		125	250	250	250
DNs	inch(mm)	2.00(50)	2.00(50)	2.00(50)	2.00(50)
DNd	inch(mm)	1.25(32)	1.25(32)	1.25(32)	1.25(32)
a	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
h2	inch(mm)	8.86(225)	8.86(225)	8.86(225)	8.86(225)
L	inch(mm)	43.82(1113)	46.06(1170)	47.56(1208)	49.13(1248)
l1	inch(mm)	49.21(1250)	49.21(1250)	49.21(1250)	55.12(1400)
l2	inch(mm)	8.07(205)	8.07(205)	8.07(205)	9.06(230)
l3	inch(mm)	33.07(840)	33.07(840)	33.07(840)	37.01(940)
b1	inch(mm)	16.93(430)	16.93(430)	16.93(430)	18.90(480)
b2	inch(mm)	21.26(540)	21.26(540)	21.26(540)	24.02(610)
b3	inch(mm)	19.29(490)	19.29(490)	19.29(490)	21.65(550)
d	inch(mm)	0.94(24)	0.94(24)	0.94(24)	1.10(28)
a2	inch(mm)	2.95(75)	2.95(75)	2.95(75)	2.95(75)
h	inch(mm)	3.15(80)	3.15(80)	3.15(80)	3.94(100)
h3	inch(mm)	10.24(260)	10.24(260)	10.24(260)	11.81(300)
h4	inch(mm)	18.98(482)	19.76(502)	19.76(502)	21.93(557)
Base frame no.		6	6	6	7
Net Weight	lbs(kg)	449(204)	608(277)	641(292)	821(373)
Gross Weight	lbs(kg)	687(312)	846(385)	879(400)	1059(481)
Volume	ft³(m³)	38.10(1.079)	38.10(1.079)	38.10(1.079)	38.10(1.079)

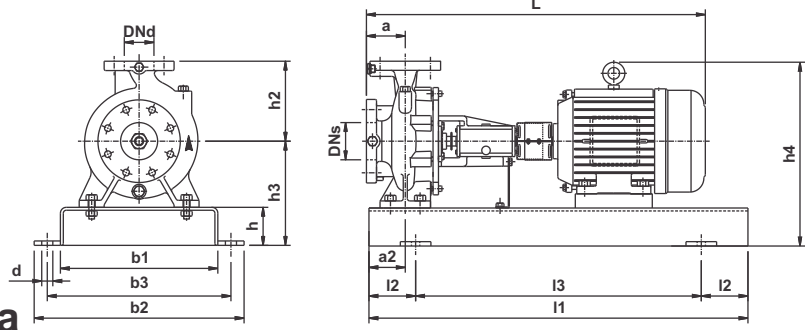
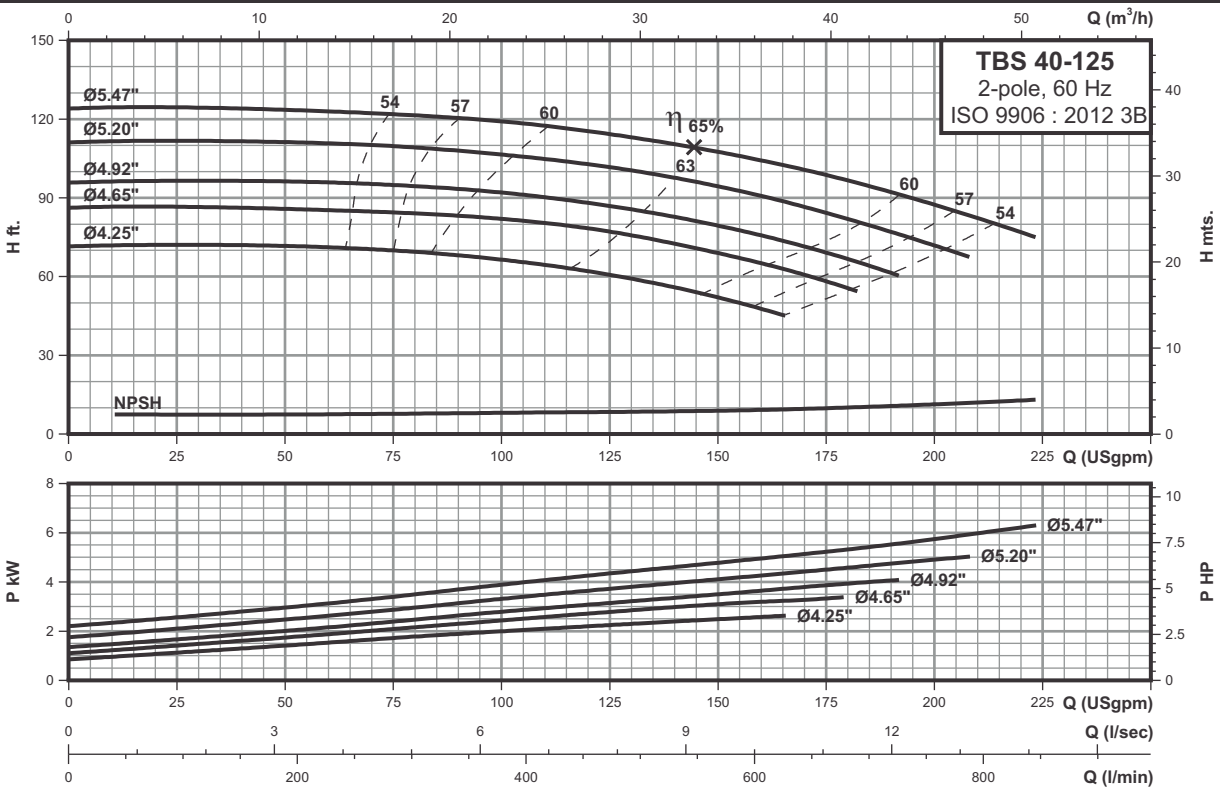
Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

Performance curves

TBS 40-125 2-pole

Single-stage bare shaft end-suction pumps

2 POLE



Technical data

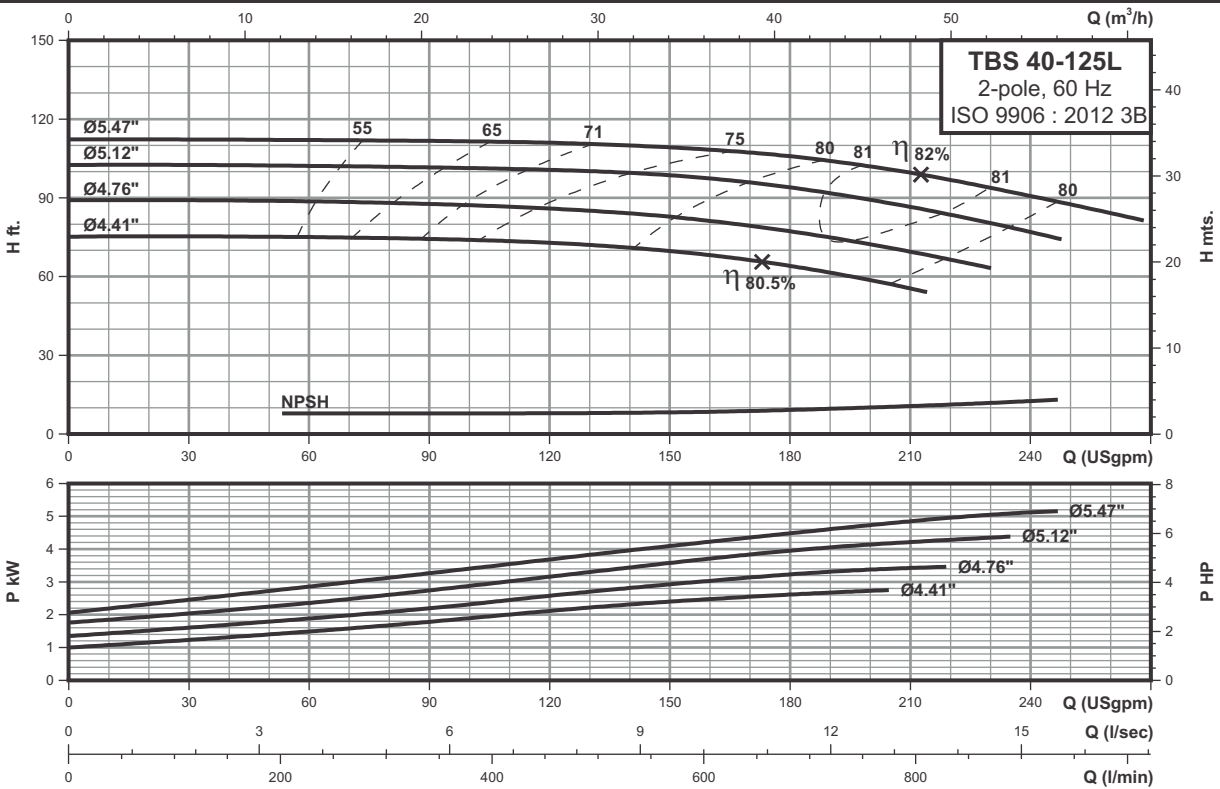
Power	(hp)	4	5	7.5	10
	(kw)	3	3.7	5.5	7.5
Frame		184T	184T	184T	215T
ANSI flange		125	125	125	125
DNs	inch(mm)	2.50(65)	2.50(65)	2.50(65)	2.50(65)
DNd	inch(mm)	1.50(40)	1.50(40)	1.50(40)	1.50(40)
a	inch(mm)	3.15(80)	3.15(80)	3.15(80)	3.15(80)
h2	inch(mm)	5.51(140)	5.51(140)	5.51(140)	7.09(180)
L	inch(mm)	33.90(861)	33.90(861)	35.87(911)	37.99(965)
l1	inch(mm)	35.43(900)	35.43(900)	35.43(900)	39.37(1000)
l2	inch(mm)	5.91(150)	5.91(150)	5.91(150)	6.69(170)
l3	inch(mm)	23.62(600)	23.62(600)	23.62(600)	25.98(660)
b1	inch(mm)	11.81(300)	11.81(300)	11.81(300)	13.39(340)
b2	inch(mm)	15.35(390)	15.35(390)	15.35(390)	17.72(450)
b3	inch(mm)	13.78(350)	13.78(350)	13.78(350)	15.75(400)
d	inch(mm)	0.75(19)	0.75(19)	0.75(19)	0.94(24)
a2	inch(mm)	2.36(60)	2.36(60)	2.36(60)	2.36(60)
h	inch(mm)	2.56(65)	2.56(65)	2.56(65)	3.15(80)
h3	inch(mm)	6.97(177)	6.97(177)	6.97(177)	8.35(212)
h4	inch(mm)	13.11(333)	13.11(333)	13.03(331)	15.67(398)
Base frame no.		3	3	3	4
Net Weight	lbs(kg)	184(84)	188(86)	208(95)	281(128)
Gross Weight	lbs(kg)	303(138)	307(140)	327(149)	450(205)
Volume	ft³(m³)	12.92(0.366)	12.92(0.366)	12.92(0.366)	22.70(0.643)

Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

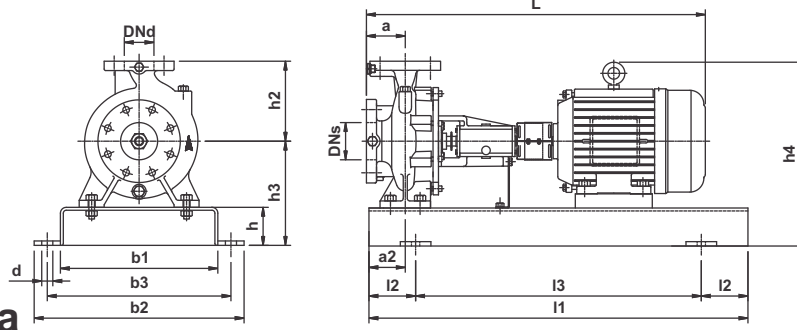
Performance curves

TBS 40-125L 2-pole

Single-stage bare shaft end-suction pumps



2 POLE



Technical data

Power	(hp)	4	5	7.5
	(kw)	3	3.7	5.5
Frame		184T	184T	184T
ANSI flange		125	125	125
DNs	inch(mm)	2.50(65)	2.50(65)	2.50(65)
DNd	inch(mm)	1.50(40)	1.50(40)	1.50(40)
a	inch(mm)	3.15(80)	3.15(80)	3.15(80)
h2	inch(mm)	5.51(140)	5.51(140)	5.51(140)
L	inch(mm)	33.90(861)	33.90(861)	35.87(911)
l1	inch(mm)	35.43(900)	35.43(900)	35.43(900)
l2	inch(mm)	5.91(150)	5.91(150)	5.91(150)
l3	inch(mm)	23.62(600)	23.62(600)	23.62(600)
b1	inch(mm)	11.81(300)	11.81(300)	11.81(300)
b2	inch(mm)	15.35(390)	15.35(390)	15.35(390)
b3	inch(mm)	13.78(350)	13.78(350)	13.78(350)
d	inch(mm)	0.75(19)	0.75(19)	0.75(19)
a2	inch(mm)	2.36(60)	2.36(60)	2.36(60)
h	inch(mm)	2.56(65)	2.56(65)	2.56(65)
h3	inch(mm)	6.97(177)	6.97(177)	6.97(177)
h4	inch(mm)	13.11(333)	13.11(333)	13.03(331)
Base frame no.		3	3	3
Net Weight	lbs(kg)	184(84)	188(86)	208(95)
Gross Weight	lbs(kg)	303(138)	307(140)	327(149)
Volume	ft³(m³)	12.92(0.366)	12.92(0.366)	12.92(0.366)

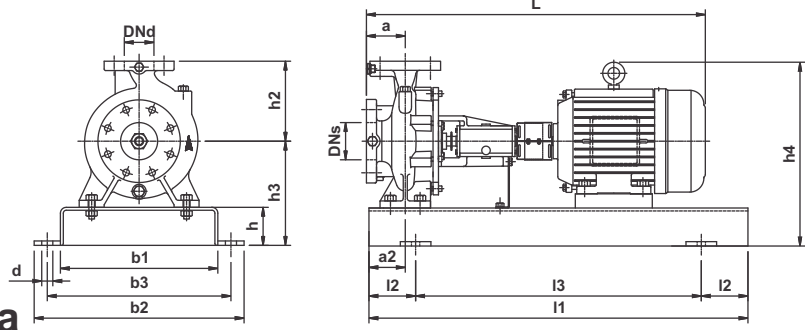
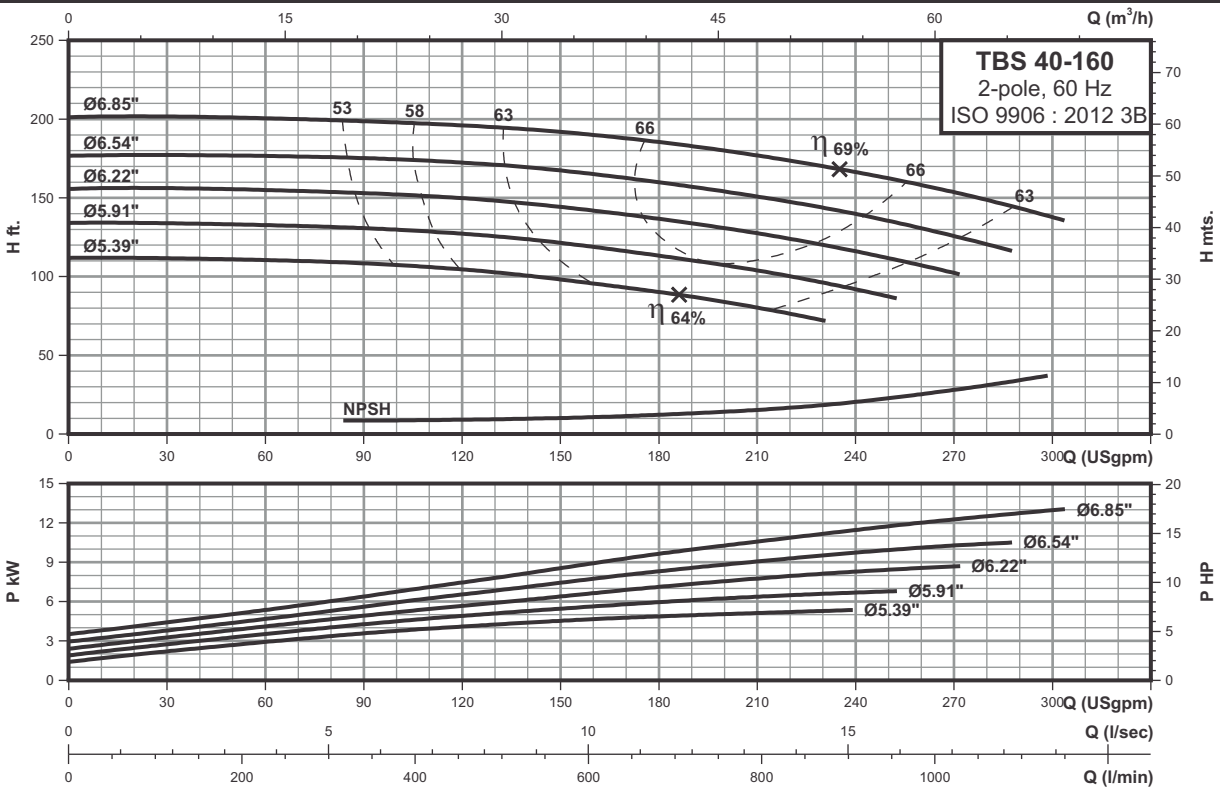
Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

Performance curves

TBS 40-160 2-pole

Single-stage bare shaft end-suction pumps

2 POLE



Technical data

Power	(hp)	7.5	10	15	20
	(kw)	5.5	7.5	11	15
Frame		184T	215T	254T	256T
ANSI flange		125	125	125	125
DNs	inch(mm)	2.50(65)	2.50(65)	2.50(65)	2.50(65)
DNd	inch(mm)	1.50(40)	1.50(40)	1.50(40)	1.50(40)
a	inch(mm)	3.15(80)	3.15(80)	3.15(80)	3.15(80)
h2	inch(mm)	6.30(160)	6.30(160)	6.30(160)	6.30(160)
L	inch(mm)	35.87(911)	37.99(965)	41.38(1051)	43.03(1093)
l1	inch(mm)	35.43(900)	39.37(1000)	44.09(1120)	44.09(1120)
l2	inch(mm)	5.91(150)	6.69(170)	7.48(190)	7.48(190)
l3	inch(mm)	23.62(600)	25.98(660)	29.13(740)	29.13(740)
b1	inch(mm)	11.81(300)	13.39(340)	14.96(380)	14.96(380)
b2	inch(mm)	15.35(390)	17.72(450)	19.29(490)	19.29(490)
b3	inch(mm)	13.78(350)	15.75(400)	17.32(440)	17.32(440)
d	inch(mm)	0.75(19)	0.94(24)	0.94(24)	0.94(24)
a2	inch(mm)	2.36(60)	2.36(60)	2.36(60)	2.36(60)
h	inch(mm)	2.56(65)	3.15(80)	3.15(80)	3.15(80)
h3	inch(mm)	7.76(197)	8.35(212)	9.45(240)	9.45(240)
h4	inch(mm)	13.82(351)	15.67(398)	18.19(462)	18.19(462)
Base frame no.		3	4	5	5
Net Weight	lbs(kg)	215(98)	287(131)	371(169)	404(184)
Gross Weight	lbs(kg)	334(152)	456(208)	540(246)	573(261)
Volume	ft³(m³)	12.92(0.366)	22.70(0.643)	22.70(0.643)	22.70(0.643)

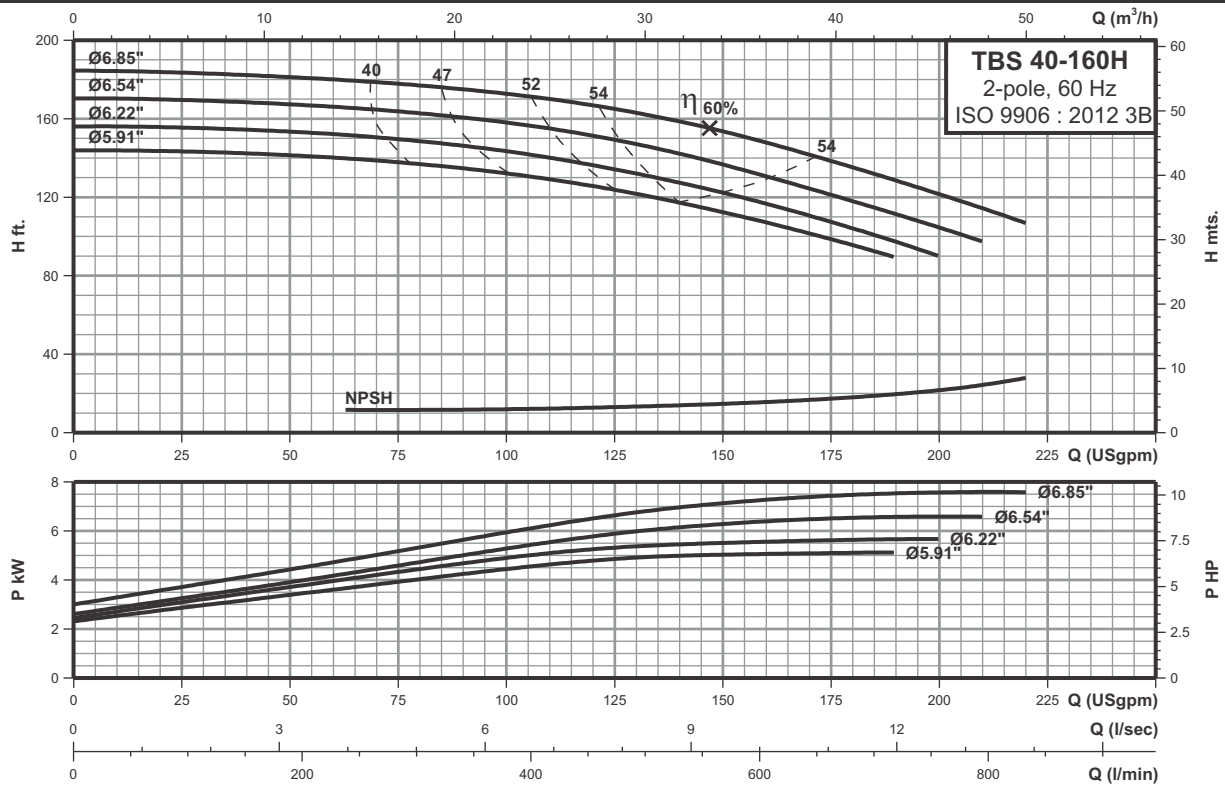
Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

Performance curves

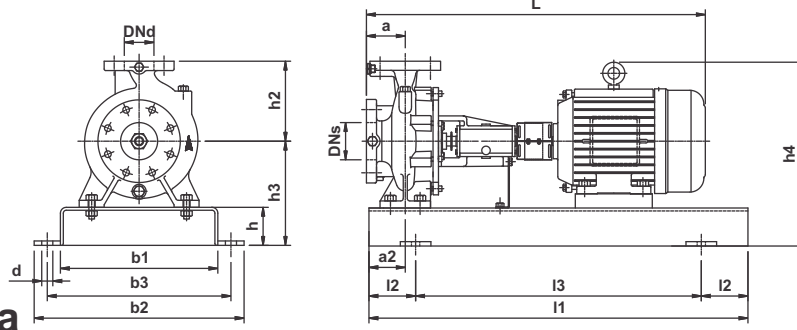
TBS 40-160H

Single-stage bare shaft end-suction pumps

2-pole



2 POLE



Technical data

Power	(hp)	5	7.5	10
	(kw)	3.7	5.5	7.5
Frame		184T	184T	215T
ANSI flange		125	125	125
DNs	inch(mm)	2.50(65)	2.50(65)	2.50(65)
DNd	inch(mm)	1.50(40)	1.50(40)	1.50(40)
a	inch(mm)	3.15(80)	3.15(80)	3.15(80)
h2	inch(mm)	6.30(160)	6.30(160)	6.30(160)
L	inch(mm)	35.16(893)	35.87(911)	37.99(965)
l1	inch(mm)	35.43(900)	35.43(900)	39.37(1000)
l2	inch(mm)	5.91(150)	5.91(150)	6.69(170)
l3	inch(mm)	23.62(600)	23.62(600)	25.98(660)
b1	inch(mm)	11.81(300)	11.81(300)	13.39(340)
b2	inch(mm)	15.35(390)	15.35(390)	17.72(450)
b3	inch(mm)	13.78(350)	13.78(350)	15.75(400)
d	inch(mm)	0.75(19)	0.75(19)	0.94(24)
a2	inch(mm)	2.36(60)	2.36(60)	2.36(60)
h	inch(mm)	2.56(65)	2.56(65)	3.15(80)
h3	inch(mm)	7.76(197)	7.76(197)	8.35(212)
h4	inch(mm)	13.82(351)	13.82(351)	15.67(398)
Base frame no.		3	3	4
Net Weight	lbs(kg)	196(89)	215(98)	287(131)
Gross Weight	lbs(kg)	218(99)	334(152)	456(208)
Volume	ft³(m³)	7.66(0.217)	12.92(0.366)	22.70(0.643)

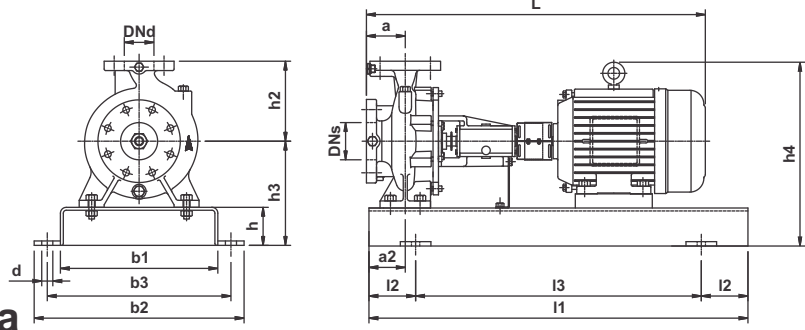
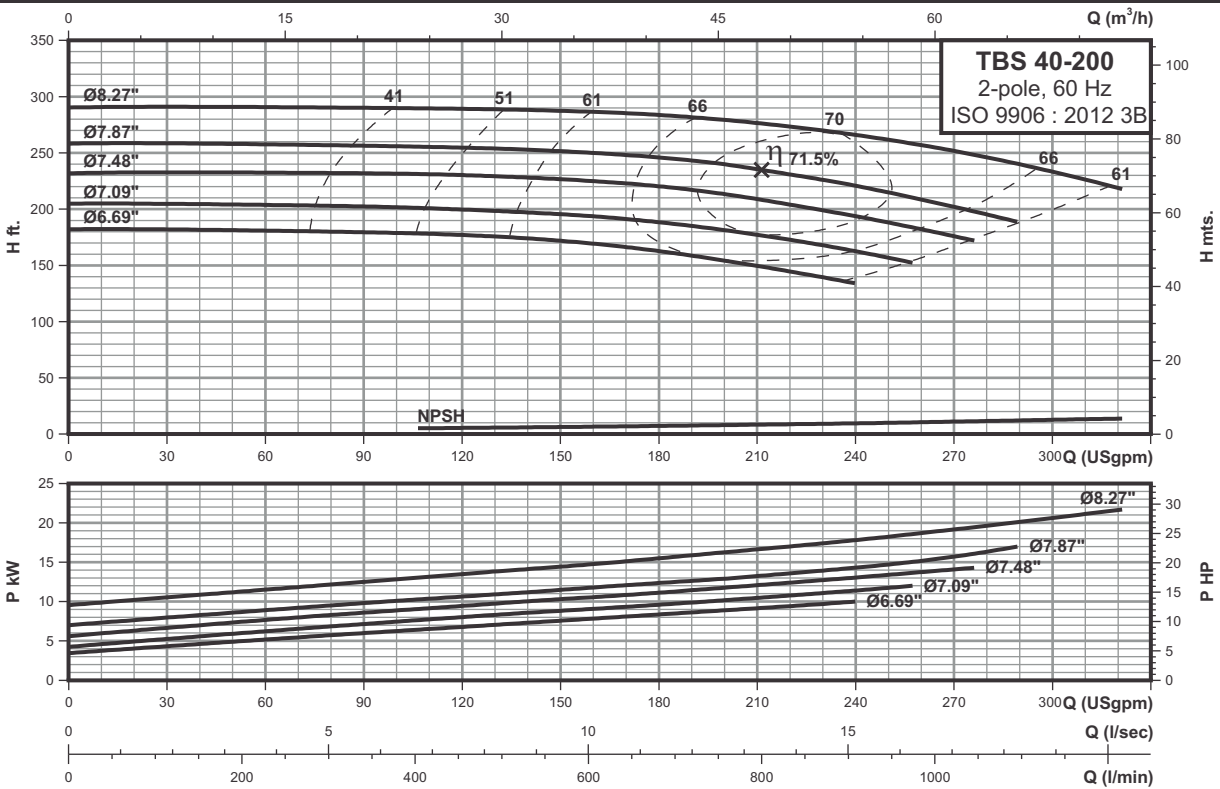
Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

Performance curves

TBS 40-200 2-pole

Single-stage bare shaft end-suction pumps

2 POLE



Technical data

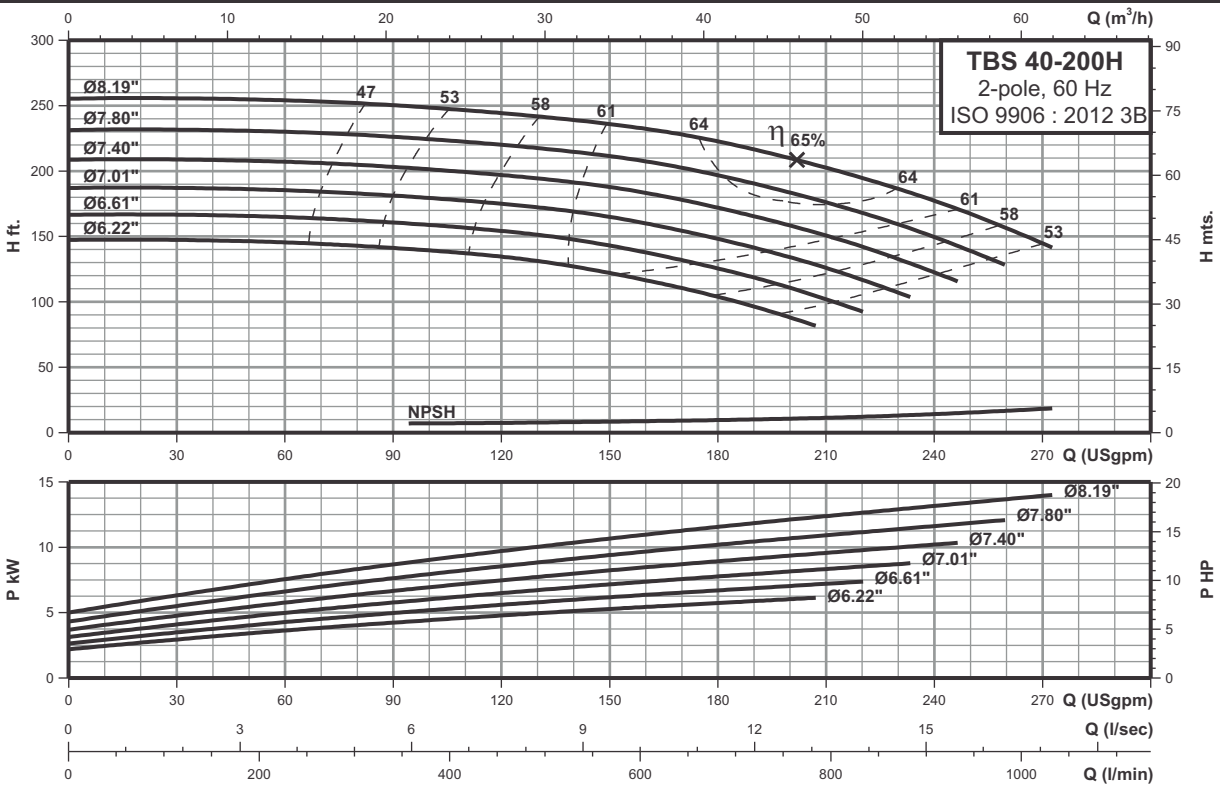
Power	(hp)	15	20	25	30
	(kw)	11	15	18.5	22
Frame		254T	256T	284TS	286TS
ANSI flange		125	125	125	250
DNs	inch(mm)	2.50(65)	2.50(65)	2.50(65)	2.50(65)
DNd	inch(mm)	1.50(40)	1.50(40)	1.50(40)	1.50(40)
a	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
h2	inch(mm)	7.09(180)	7.09(180)	7.09(180)	7.09(180)
L	inch(mm)	42.17(1071)	43.82(1113)	46.06(1170)	47.56(1208)
l1	inch(mm)	44.09(1120)	44.09(1120)	44.09(1120)	44.09(1120)
l2	inch(mm)	7.48(190)	7.48(190)	7.48(190)	7.48(190)
l3	inch(mm)	29.13(740)	29.13(740)	29.13(740)	29.13(740)
b1	inch(mm)	14.96(380)	14.96(380)	14.96(380)	14.96(380)
b2	inch(mm)	19.29(490)	19.29(490)	19.29(490)	19.29(490)
b3	inch(mm)	17.32(440)	17.32(440)	17.32(440)	17.32(440)
d	inch(mm)	0.94(24)	0.94(24)	0.94(24)	0.94(24)
a2	inch(mm)	2.36(60)	2.36(60)	2.36(60)	2.36(60)
h	inch(mm)	3.15(80)	3.15(80)	3.15(80)	3.15(80)
h3	inch(mm)	9.45(240)	9.45(240)	10.16(258)	10.16(258)
h4	inch(mm)	18.19(462)	18.19(462)	19.65(499)	19.65(499)
Base frame no.		5	5	5	5
Net Weight	lbs(kg)	382(174)	415(189)	574(261)	607(276)
Gross Weight	lbs(kg)	551(251)	584(266)	743(338)	776(353)
Volume	ft³(m³)	22.70(0.643)	22.70(0.643)	22.70(0.643)	22.70(0.643)

Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

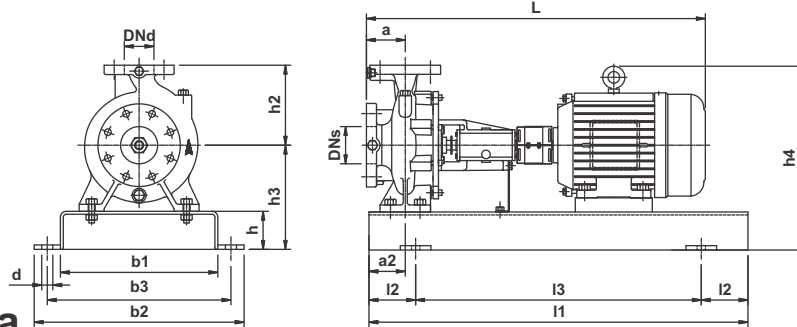
Performance curves

Single-stage bare shaft end-suction pumps

TBS 40-200H 2-pole



2 POLE



Technical data

Power	(hp)	7.5	10	15	20
	(kw)	5.5	7.5	11	15
Frame		184T	215T	254T	256T
ANSI flange		125	125	125	125
DNs	inch(mm)	2.50(65)	2.50(65)	2.50(65)	2.50(65)
DNd	inch(mm)	1.50(40)	1.50(40)	1.50(40)	1.50(40)
a	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
h2	inch(mm)	7.09(180)	7.09(180)	7.09(180)	7.09(180)
L	inch(mm)	36.65(931)	38.07(967)	42.17(1071)	43.82(1113)
l1	inch(mm)	35.43(900)	39.37(1000)	44.09(1120)	44.09(1120)
l2	inch(mm)	5.91(150)	6.69(170)	7.48(190)	7.48(190)
l3	inch(mm)	23.62(600)	25.98(660)	29.13(740)	29.13(740)
b1	inch(mm)	11.81(300)	13.39(340)	14.96(380)	14.96(380)
b2	inch(mm)	15.35(390)	17.72(450)	19.29(490)	19.29(490)
b3	inch(mm)	13.78(350)	15.75(400)	17.32(440)	17.32(440)
d	inch(mm)	0.75(19)	0.94(24)	0.94(24)	0.94(24)
a2	inch(mm)	2.36(60)	2.36(60)	2.36(60)	2.36(60)
h	inch(mm)	2.56(65)	3.15(80)	3.15(80)	3.15(80)
h3	inch(mm)	8.86(225)	9.45(240)	9.45(240)	9.45(240)
h4	inch(mm)	14.92(379)	16.77(426)	18.19(462)	18.19(462)
Base frame no.		3	4	5	5
Net Weight	lbs(kg)	227(103)	299(136)	382(174)	415(189)
Gross Weight	lbs(kg)	249(113)	440(200)	551(251)	584(266)
Volume	ft³(m³)	7.66(0.217)	17.33(0.491)	22.70(0.643)	22.70(0.643)

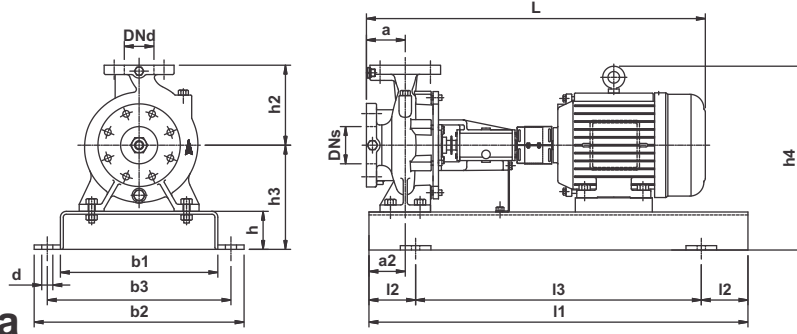
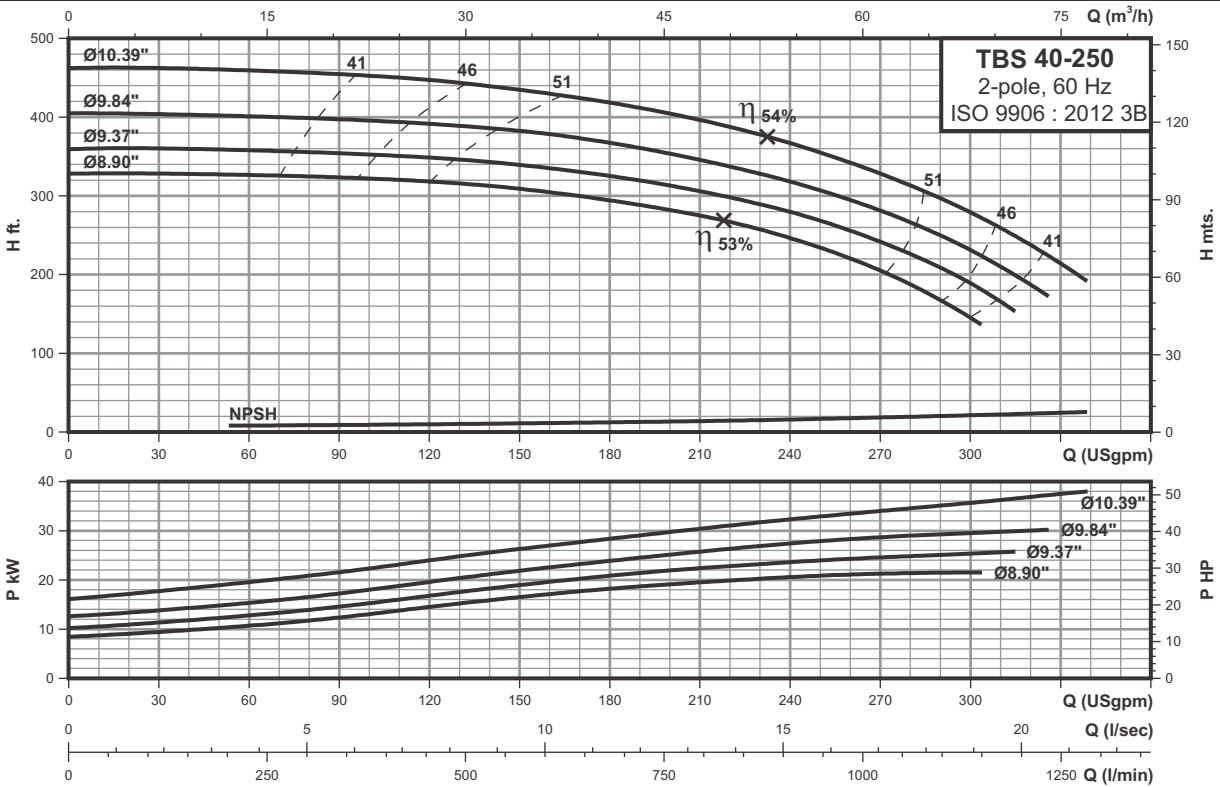
Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

Performance curves

TBS 40-250 2-pole

Single-stage bare shaft end-suction pumps

2 POLE



Technical data

Power	(hp)	25	30	40	50
	(kw)	18.5	22	30	37
Frame		284TS	286TS	324TS	326TS
ANSI flange		250	250	250	250
DNs	inch(mm)	2.50(65)	2.50(65)	2.50(65)	2.50(65)
DNd	inch(mm)	1.50(40)	1.50(40)	1.50(40)	1.50(40)
a	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
h2	inch(mm)	8.86(225)	8.86(225)	8.86(225)	8.86(225)
L	inch(mm)	46.02(1169)	47.56(1208)	49.13(1248)	49.13(1248)
l1	inch(mm)	49.21(1250)	49.21(1250)	55.12(1400)	55.12(1400)
l2	inch(mm)	8.07(205)	8.07(205)	9.06(230)	9.06(230)
l3	inch(mm)	33.07(840)	33.07(840)	37.01(940)	37.01(940)
b1	inch(mm)	16.93(430)	16.93(430)	18.90(480)	18.90(480)
b2	inch(mm)	21.26(540)	21.26(540)	24.02(610)	24.02(610)
b3	inch(mm)	19.29(490)	19.29(490)	21.65(550)	21.65(550)
d	inch(mm)	0.94(24)	0.94(24)	1.10(28)	1.10(28)
a2	inch(mm)	2.95(75)	2.95(75)	2.95(75)	2.95(75)
h	inch(mm)	3.15(80)	3.15(80)	3.94(100)	3.94(100)
h3	inch(mm)	10.24(260)	10.24(260)	11.93(303)	11.93(303)
h4	inch(mm)	19.76(502)	19.76(502)	22.05(560)	22.05(560)
Base frame no.		6	6	7	7
Net Weight	lbs(kg)	617(281)	650(296)	829(377)	873(397)
Gross Weight	lbs(kg)	855(389)	888(404)	1067(485)	1111(505)
Volume	ft³(m³)	38.10(1.079)	38.10(1.079)	38.10(1.079)	38.10(1.079)

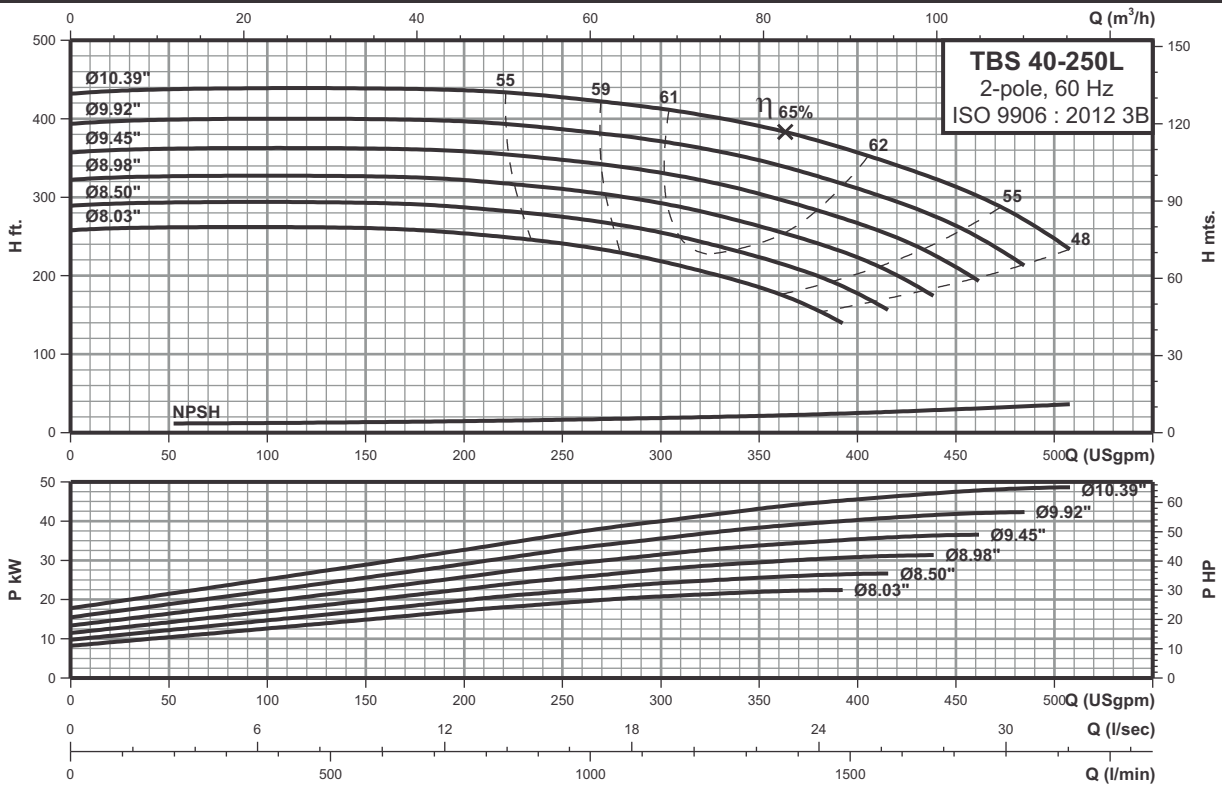
Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

Performance curves

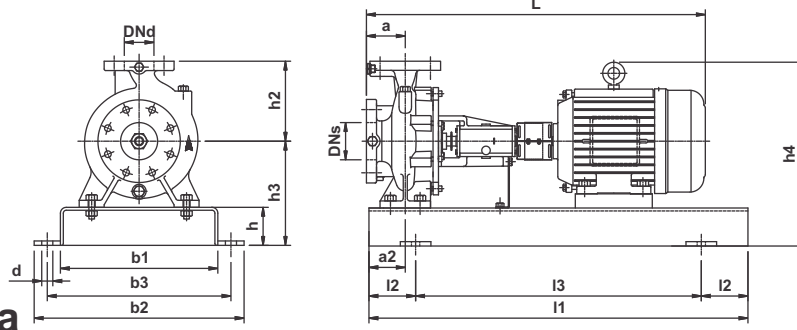
TBS 40-250L

Single-stage bare shaft end-suction pumps

2-pole



2 POLE



Technical data

Power	(hp)	30	40	50	60
	(kw)	22	30	37	45
Frame		286TS	324TS	326TS	364TS
ANSI flange		125	250	250	250
DNs	inch(mm)	2.50(65)	2.50(65)	2.50(65)	2.50(65)
DNd	inch(mm)	1.50(40)	1.50(40)	1.50(40)	1.50(40)
a	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
h2	inch(mm)	8.86(225)	8.86(225)	8.86(225)	8.86(225)
L	inch(mm)	47.56(1208)	49.13(1248)	49.13(1248)	49.57(1259)
l1	inch(mm)	49.21(1250)	55.12(1400)	55.12(1400)	55.12(1400)
l2	inch(mm)	8.07(205)	9.06(230)	9.06(230)	9.06(230)
l3	inch(mm)	33.07(840)	37.01(940)	37.01(940)	37.01(940)
b1	inch(mm)	16.93(430)	18.90(480)	18.90(480)	18.90(480)
b2	inch(mm)	21.26(540)	24.02(610)	24.02(610)	24.02(610)
b3	inch(mm)	19.29(490)	21.65(550)	21.65(550)	21.65(550)
d	inch(mm)	0.94(24)	1.10(28)	1.10(28)	1.10(28)
a2	inch(mm)	2.95(75)	2.95(75)	2.95(75)	2.95(75)
h	inch(mm)	3.15(80)	3.94(100)	3.94(100)	3.94(100)
h3	inch(mm)	10.24(260)	11.93(303)	11.93(303)	11.02(280)
h4	inch(mm)	19.76(502)	22.05(560)	22.05(560)	22.20(564)
Base frame no.		6	7	7	7
Net Weight	lbs(kg)	650(296)	829(377)	873(397)	931(423)
Gross Weight	lbs(kg)	888(404)	1067(485)	1111(505)	1162(528)
Volume	ft³(m³)	38.10(1.079)	38.10(1.079)	38.10(1.079)	37(1.038)

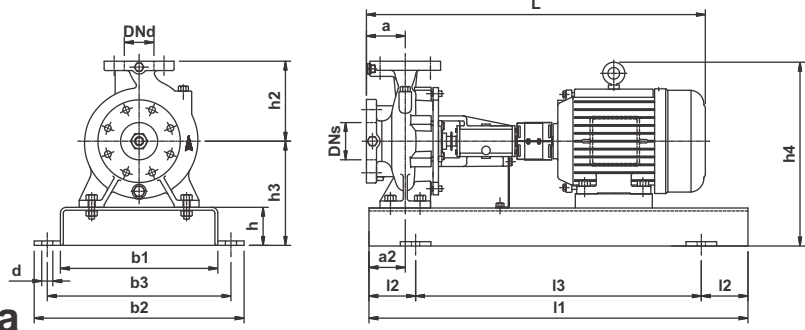
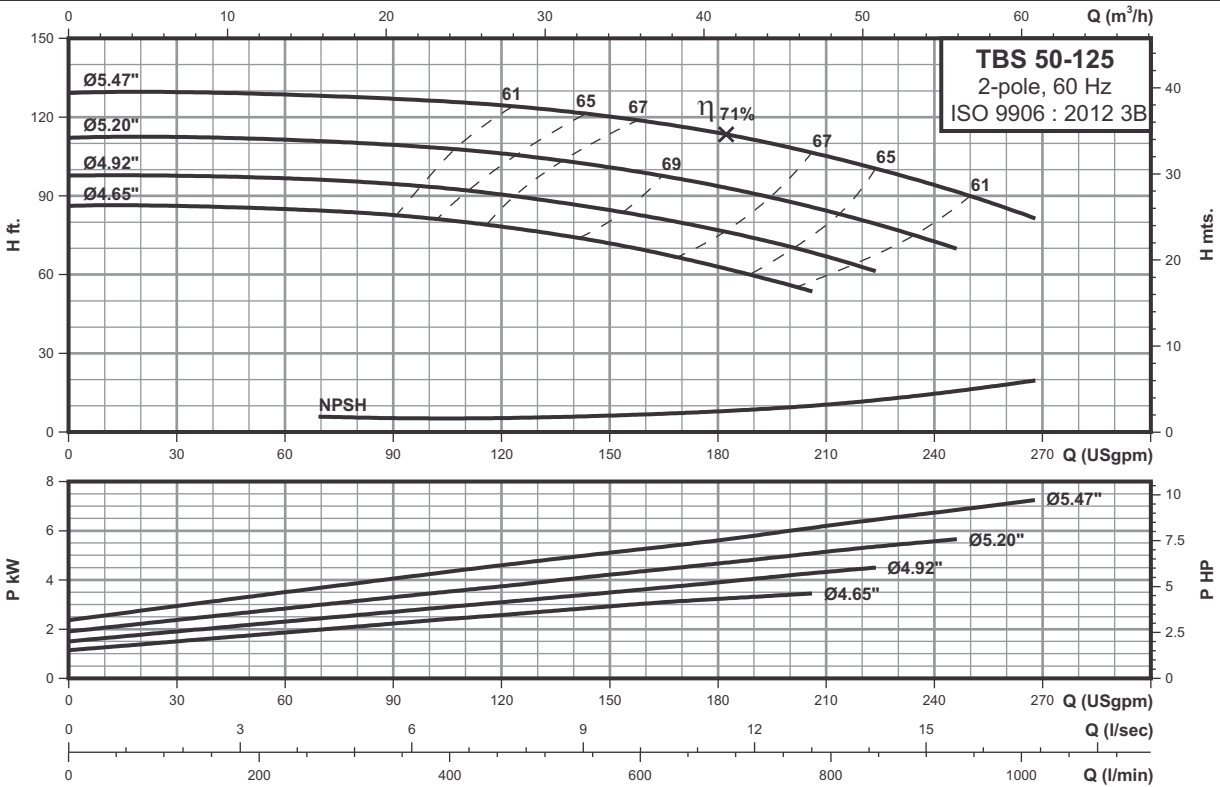
Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

Performance curves

TBS 50-125 2-pole

Single-stage bare shaft end-suction pumps

2 POLE



Technical data

Power	(hp)	4	5	7.5	10
	(kw)	3	3.7	5.5	7.5
Frame		184T	184T	184T	215T
ANSI flange		125	125	125	125
DNs	inch(mm)	2.50(65)	2.50(65)	2.50(65)	2.50(65)
DNd	inch(mm)	2.00(50)	2.00(50)	2.00(50)	2.00(50)
a	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
h2	inch(mm)	6.30(160)	6.30(160)	6.30(160)	6.30(160)
L	inch(mm)	34.69(881)	34.69(881)	36.65(931)	37.99(985)
l1	inch(mm)	35.43(900)	35.43(900)	35.43(900)	39.37(1000)
l2	inch(mm)	5.91(150)	5.91(150)	5.91(150)	6.69(170)
l3	inch(mm)	23.62(600)	23.62(600)	23.62(600)	25.98(660)
b1	inch(mm)	11.81(300)	11.81(300)	11.81(300)	13.39(340)
b2	inch(mm)	15.35(390)	15.35(390)	15.35(390)	17.72(450)
b3	inch(mm)	13.78(350)	13.78(350)	13.78(350)	15.75(400)
d	inch(mm)	0.75(19)	0.75(19)	0.75(19)	0.94(24)
a2	inch(mm)	2.36(60)	2.36(60)	2.36(60)	2.36(60)
h	inch(mm)	2.56(65)	2.56(65)	2.56(65)	3.15(80)
h3	inch(mm)	7.76(197)	7.76(197)	7.76(197)	8.35(212)
h4	inch(mm)	13.98(355)	13.98(355)	13.82(351)	15.67(398)
Base frame no.		3	3	3	4
Net Weight	lbs(kg)	188(86)	193(88)	212(97)	285(130)
Gross Weight	lbs(kg)	307(140)	307(142)	331(151)	454(207)
Volume	ft³(m³)	12.92(0.366)	12.92(0.366)	12.92(0.366)	22.70(0.643)

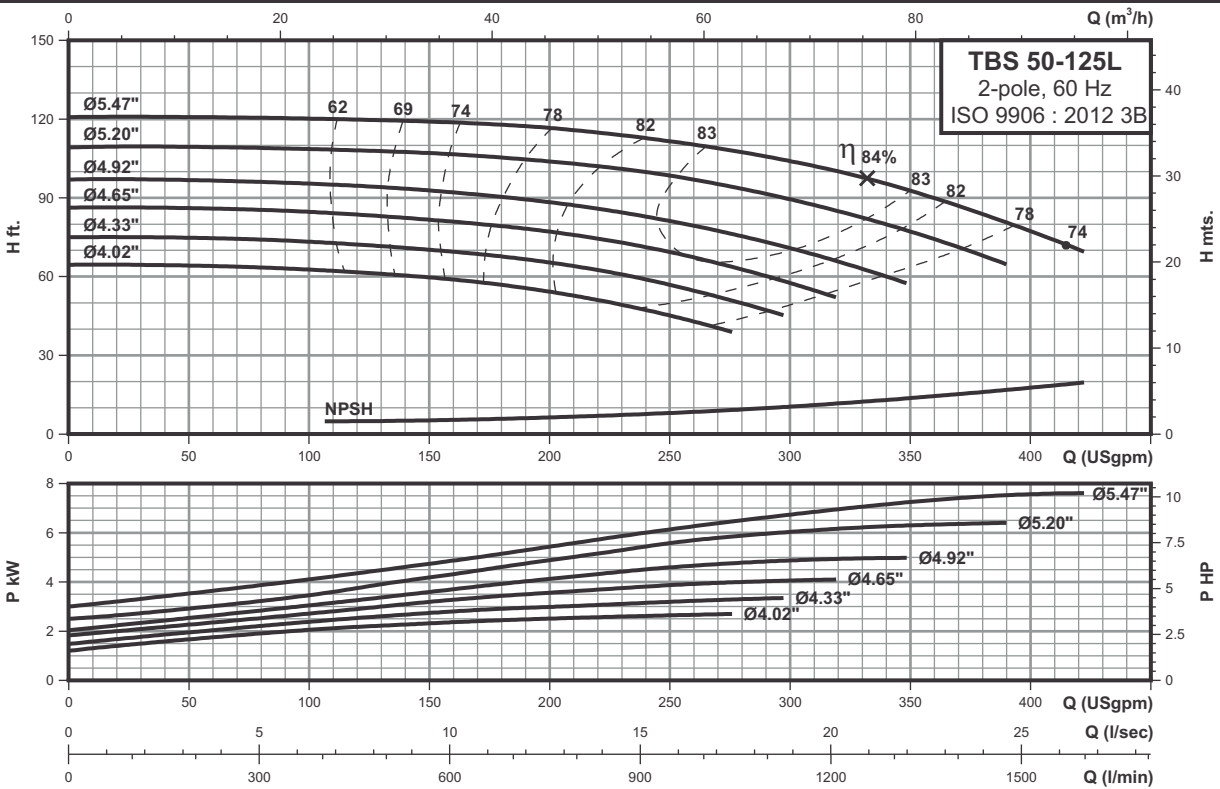
Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

Performance curves

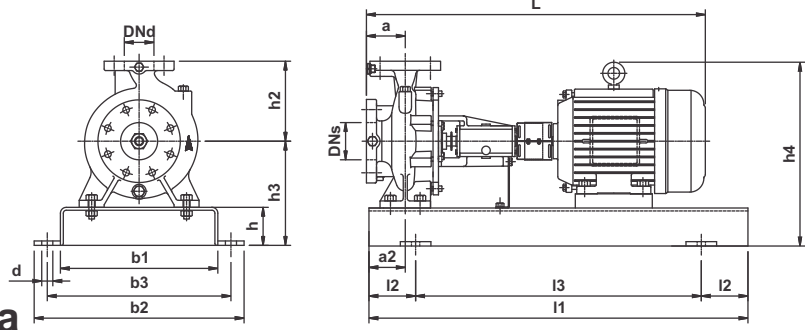
TBS 50-125L

Single-stage bare shaft end-suction pumps

2-pole



2 POLE



Technical data

Power	(hp)	4	5	7.5	10
	(kw)	3	3.7	5.5	7.5
Frame		184T	184T	184T	215T
ANSI flange		125	125	125	125
DNs	inch(mm)	2.50(65)	2.50(65)	2.50(65)	2.50(65)
DNd	inch(mm)	2.00(50)	2.00(50)	2.00(50)	2.00(50)
a	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
h2	inch(mm)	6.30(160)	6.30(160)	6.30(160)	6.30(160)
L	inch(mm)	34.69(881)	34.69(881)	36.65(931)	37.99(985)
l1	inch(mm)	35.43(900)	35.43(900)	35.43(900)	39.37(1000)
l2	inch(mm)	5.91(150)	5.91(150)	5.91(150)	6.69(170)
l3	inch(mm)	23.62(600)	23.62(600)	23.62(600)	25.98(660)
b1	inch(mm)	11.81(300)	11.81(300)	11.81(300)	13.39(340)
b2	inch(mm)	15.35(390)	15.35(390)	15.35(390)	17.72(450)
b3	inch(mm)	13.78(350)	13.78(350)	13.78(350)	15.75(400)
d	inch(mm)	0.75(19)	0.75(19)	0.75(19)	0.94(24)
a2	inch(mm)	2.36(60)	2.36(60)	2.36(60)	2.36(60)
h	inch(mm)	2.56(65)	2.56(65)	2.56(65)	3.15(80)
h3	inch(mm)	7.76(197)	7.76(197)	7.76(197)	8.35(212)
h4	inch(mm)	13.98(355)	13.98(355)	13.82(351)	15.67(398)
Base frame no.		3	3	3	4
Net Weight	lbs(kg)	188(86)	193(88)	212(97)	285(130)
Gross Weight	lbs(kg)	307(140)	312(142)	331(151)	454(207)
Volume	ft³(m³)	12.92(0.366)	12.92(0.366)	12.92(0.366)	22.70(0.643)

Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

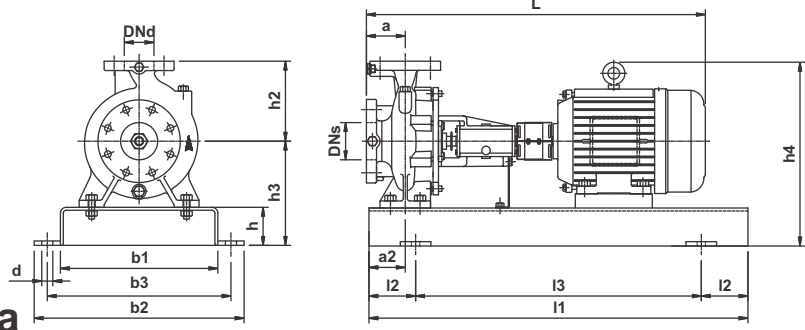
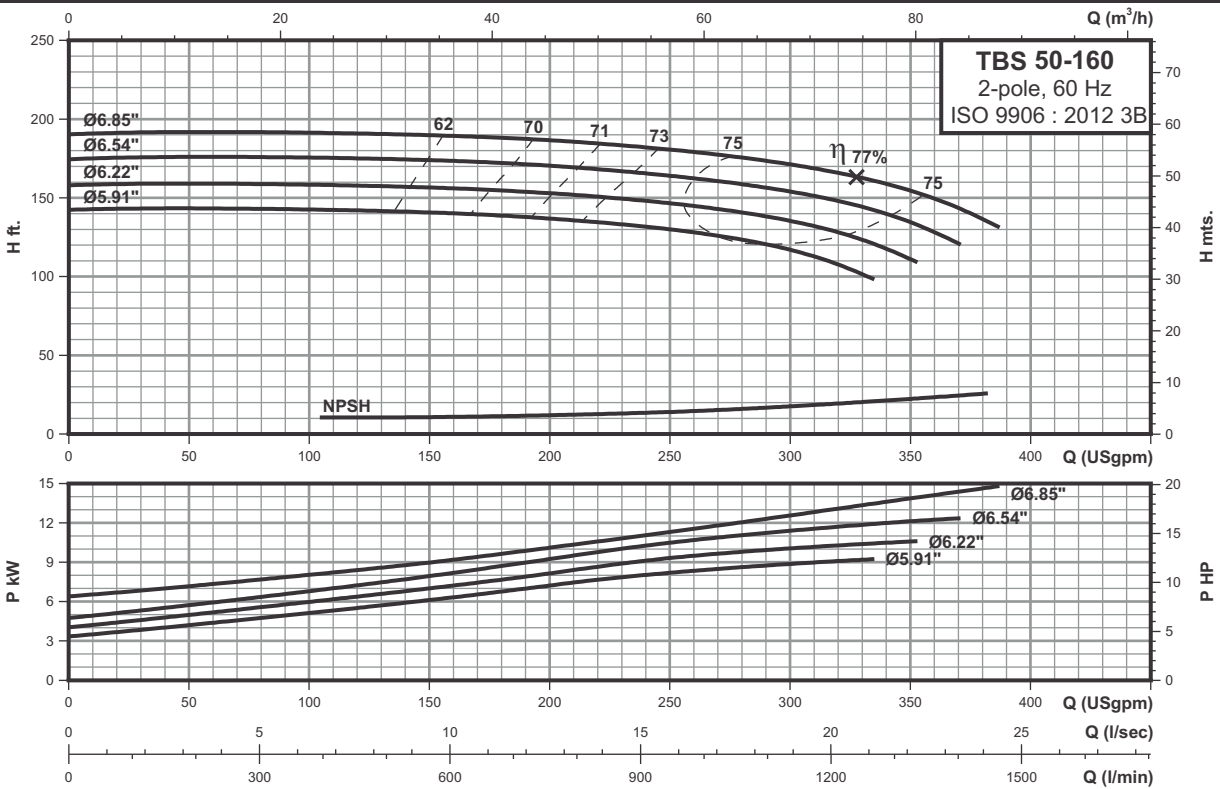
Performance curves

TBS 50-160

Single-stage bare shaft end-suction pumps

2-pole

2 POLE



Technical data

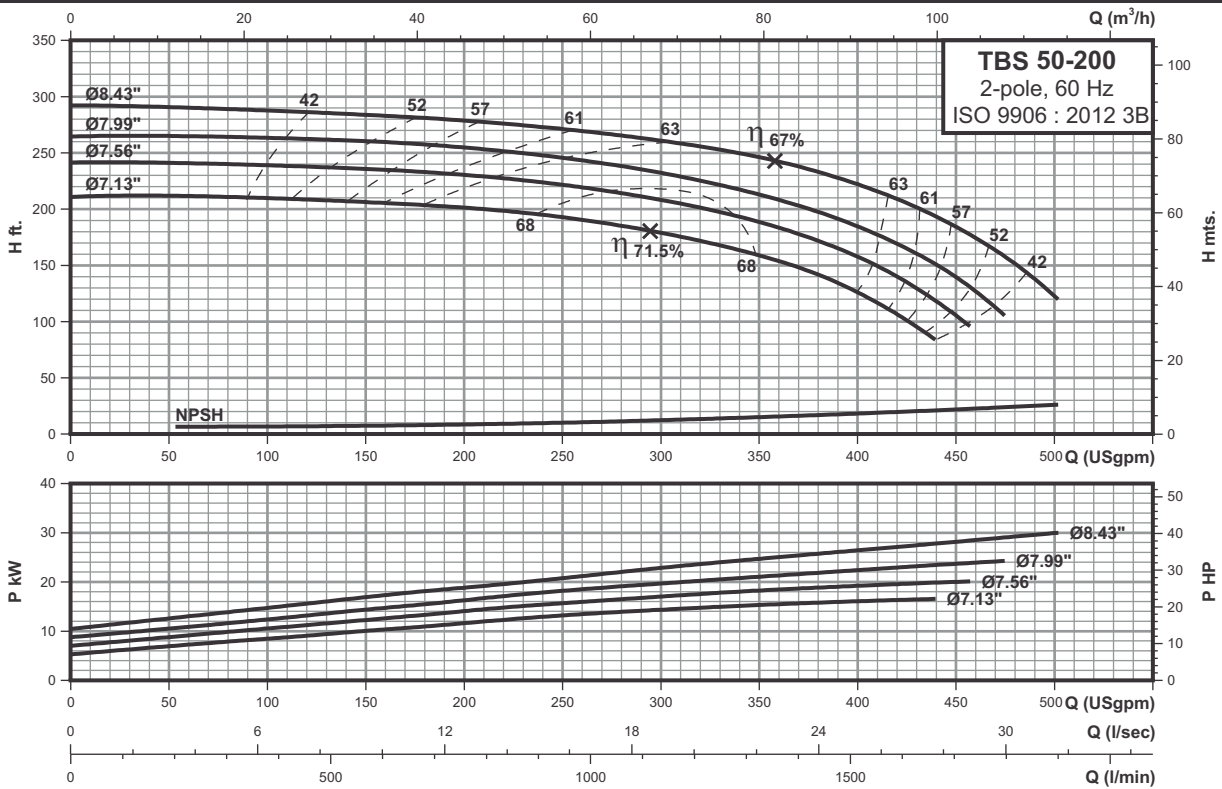
Power	(hp)	10	15	20
	(kw)	7.5	11	15
Frame		215T	254T	256T
ANSI flange		125	125	125
DNs	inch(mm)	2.50(65)	2.50(65)	2.50(65)
DNd	inch(mm)	2.00(50)	2.00(50)	2.00(50)
a	inch(mm)	3.94(100)	3.94(100)	3.94(100)
h2	inch(mm)	7.09(180)	7.09(180)	7.09(180)
L	inch(mm)	38.78(985)	42.17(1071)	43.82(1113)
l1	inch(mm)	39.37(1000)	44.09(1120)	44.09(1120)
l2	inch(mm)	6.69(170)	7.48(190)	7.48(190)
l3	inch(mm)	25.98(660)	29.13(740)	29.13(740)
b1	inch(mm)	13.39(340)	14.96(380)	14.96(380)
b2	inch(mm)	17.72(450)	19.29(490)	19.29(490)
b3	inch(mm)	15.75(400)	17.32(440)	17.32(440)
d	inch(mm)	0.94(24)	0.94(24)	0.94(24)
a2	inch(mm)	2.36(60)	2.36(60)	2.36(60)
h	inch(mm)	3.15(80)	3.15(80)	3.15(80)
h3	inch(mm)	9.45(240)	9.45(240)	9.45(240)
h4	inch(mm)	16.77(426)	18.19(462)	18.19(462)
Base frame no.		4	5	5
Net Weight	lbs(kg)	296(135)	380(173)	413(188)
Gross Weight	lbs(kg)	465(212)	549(250)	582(265)
Volume	ft³(m³)	22.70(0.643)	22.70(0.643)	22.70(0.643)

Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

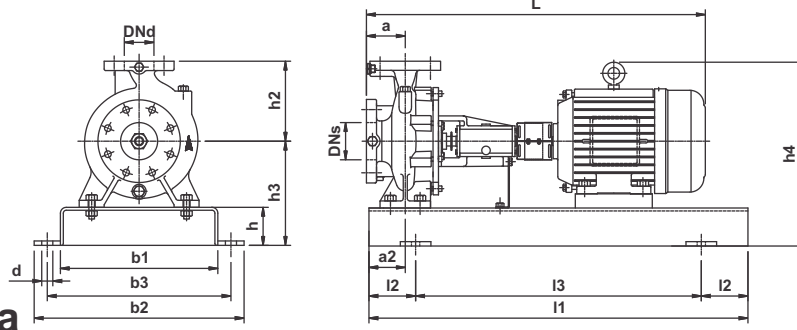
Performance curves

Single-stage bare shaft end-suction pumps

TBS 50-200 2-pole



2 POLE



Technical data

Power	(hp)	20	25	30	40
	(kw)	15	18.5	22	30
Frame		256T	284TS	286TS	324TS
ANSI flange		125	125	125	250
DNs	inch(mm)	2.50(65)	2.50(65)	2.50(65)	2.50(65)
DNd	inch(mm)	2.00(50)	2.00(50)	2.00(50)	2.00(50)
a	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
h2	inch(mm)	7.87(200)	7.87(200)	7.87(200)	7.87(200)
L	inch(mm)	43.82(1113)	46.06(1170)	47.56(1208)	49.13(1248)
l1	inch(mm)	44.09(1120)	44.09(1120)	55.12(1400)	55.12(1400)
l2	inch(mm)	7.48(190)	7.48(190)	9.06(230)	9.06(230)
l3	inch(mm)	29.13(740)	29.13(740)	37.01(940)	37.01(940)
b1	inch(mm)	14.96(380)	14.96(380)	18.90(480)	18.90(480)
b2	inch(mm)	19.29(490)	19.29(490)	24.02(610)	24.02(610)
b3	inch(mm)	17.32(440)	17.32(440)	21.65(550)	21.65(550)
d	inch(mm)	0.94(24)	0.94(24)	1.10(28)	1.10(28)
a2	inch(mm)	2.36(60)	2.36(60)	2.36(60)	2.36(60)
h	inch(mm)	3.15(80)	3.15(80)	3.94(100)	3.94(100)
h3	inch(mm)	9.45(240)	10.16(258)	10.94(278)	11.81(300)
h4	inch(mm)	18.19(462)	19.65(499)	20.43(519)	21.93(557)
Base frame no.		5	5	7	7
Net Weight	lbs(kg)	421(192)	581(264)	681(310)	807(367)
Gross Weight	lbs(kg)	590(269)	750(341)	919(418)	1045(475)
Volume	ft³(m³)	22.70(0.643)	22.70(0.643)	38.10(1.079)	38.10(1.079)

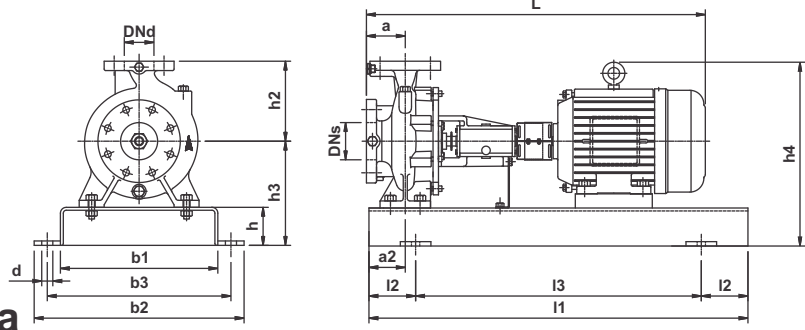
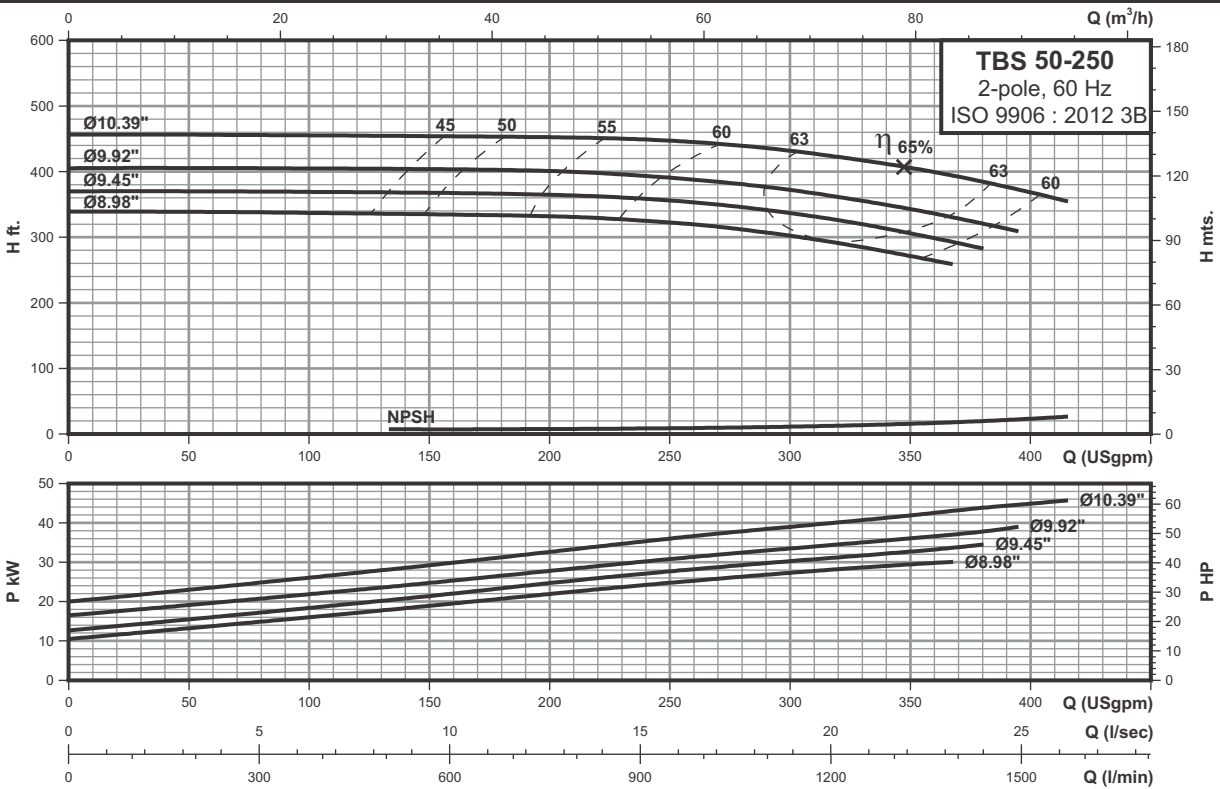
Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

Performance curves

TBS 50-250 2-pole

Single-stage bare shaft end-suction pumps

2 POLE



Technical data

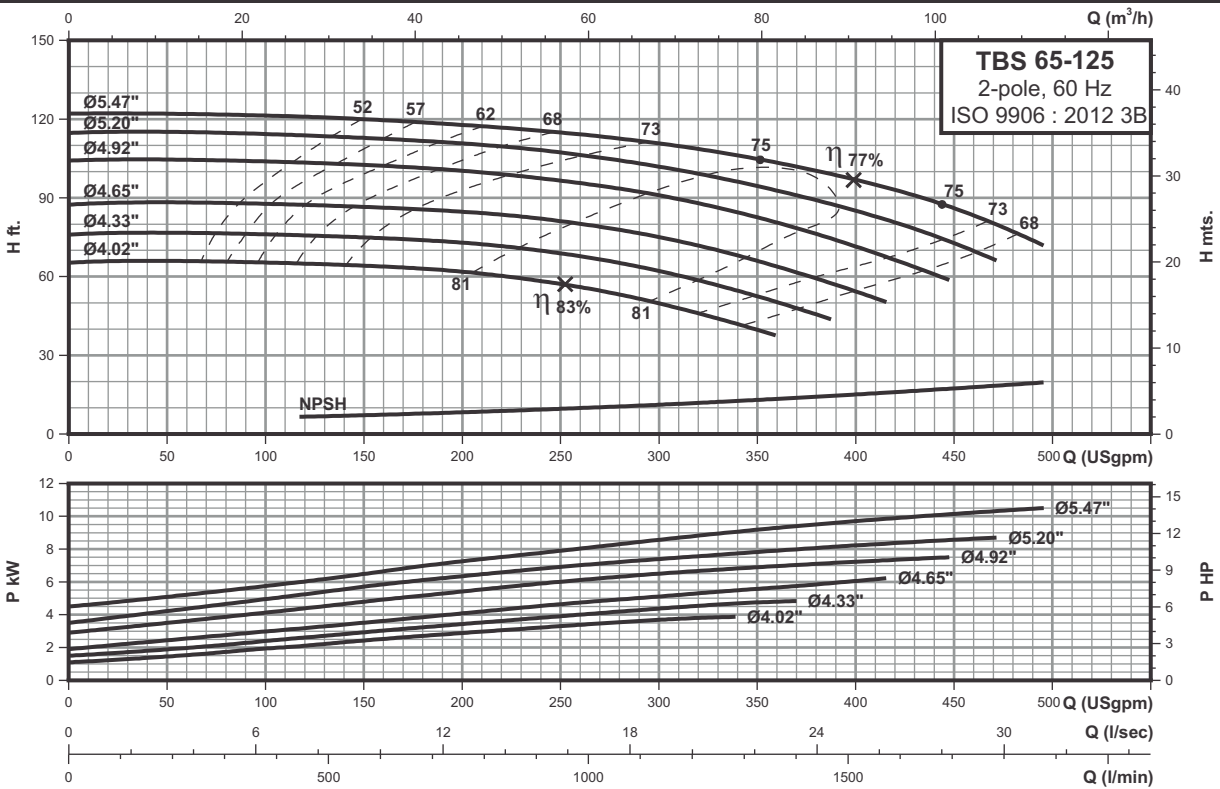
Power	(hp)	40	50	60
	(kw)	30	37	45
Frame		324TS	326TS	364TS
ANSI flange		250	250	250
DNs	inch(mm)	2.50(65)	2.50(65)	2.50(65)
DNd	inch(mm)	2.00(50)	2.00(50)	2.00(50)
a	inch(mm)	3.94(100)	3.94(100)	3.94(100)
h2	inch(mm)	8.86(225)	8.86(225)	8.86(225)
L	inch(mm)	49.13(1248)	49.13(1248)	49.57(1259)
l1	inch(mm)	55.12(1400)	55.12(1400)	55.12(1400)
l2	inch(mm)	9.06(230)	9.06(230)	9.06(230)
l3	inch(mm)	37.01(940)	37.01(940)	37.01(940)
b1	inch(mm)	18.90(480)	18.90(480)	18.90(480)
b2	inch(mm)	24.02(610)	24.02(610)	24.02(610)
b3	inch(mm)	21.65(550)	21.65(550)	21.65(550)
d	inch(mm)	1.10(28)	1.10(28)	1.10(28)
a2	inch(mm)	2.95(75)	2.95(75)	2.95(75)
h	inch(mm)	3.94(100)	3.94(100)	3.94(100)
h3	inch(mm)	11.81(300)	11.81(300)	12.95(329)
h4	inch(mm)	21.93(557)	21.93(557)	24.13(613)
Base frame no.		7	7	7
Net Weight	lbs(kg)	834(379)	878(399)	935(425)
Gross Weight	lbs(kg)	1072(487)	1116(507)	1173(533)
Volume	ft³(m³)	38.10(1.079)	38.10(1.079)	38.10(1.079)

Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

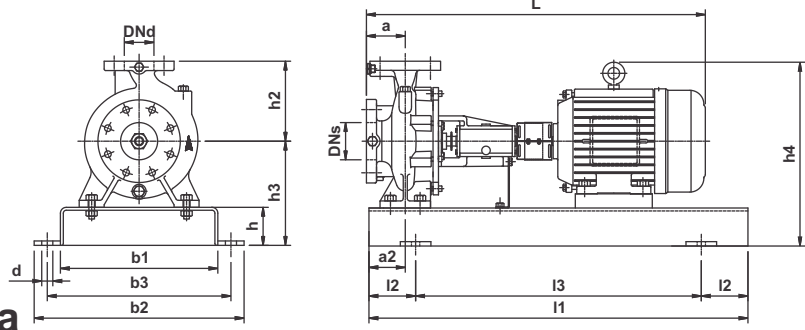
Performance curves

Single-stage bare shaft end-suction pumps

TBS 65-125 2-pole



2 POLE



Technical data

Power	(hp)	5	7.5	10	15
	(kw)	3.7	5.5	7.5	11
Frame		184T	184T	215T	254T
ANSI flange		125	125	125	125
DNs	inch(mm)	3.00(80)	3.00(80)	3.00(80)	3.00(80)
DNd	inch(mm)	2.50(65)	2.50(65)	2.50(65)	2.50(65)
a	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
h2	inch(mm)	7.09(180)	7.09(180)	7.09(180)	7.09(180)
L	inch(mm)	34.69(881)	36.65(931)	38.78(985)	42.17(1071)
l1	inch(mm)	39.37(1000)	39.37(1000)	44.09(1120)	49.21(1250)
l2	inch(mm)	6.69(170)	6.69(170)	7.48(190)	8.07(205)
l3	inch(mm)	25.98(660)	25.98(660)	29.13(740)	33.07(840)
b1	inch(mm)	13.39(340)	13.39(340)	14.96(380)	16.93(430)
b2	inch(mm)	17.72(450)	17.72(450)	19.29(490)	21.26(540)
b3	inch(mm)	15.75(400)	15.75(400)	17.32(440)	19.29(490)
d	inch(mm)	0.94(24)	0.94(24)	0.94(24)	0.94(24)
a2	inch(mm)	2.95(75)	2.95(75)	2.95(75)	2.95(75)
h	inch(mm)	3.15(80)	3.15(80)	3.15(80)	3.15(80)
h3	inch(mm)	9.45(240)	9.45(240)	9.45(240)	9.45(240)
h4	inch(mm)	15.59(396)	15.51(394)	16.77(426)	18.19(462)
Base frame no.		4	4	5	6
Net Weight	lbs(kg)	226(103)	245(112)	311(142)	398(181)
Gross Weight	lbs(kg)	395(180)	414(189)	480(219)	636(289)
Volume	ft³(m³)	22.70(0.643)	22.70(0.643)	22.70(0.643)	38.10(1.079)

Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

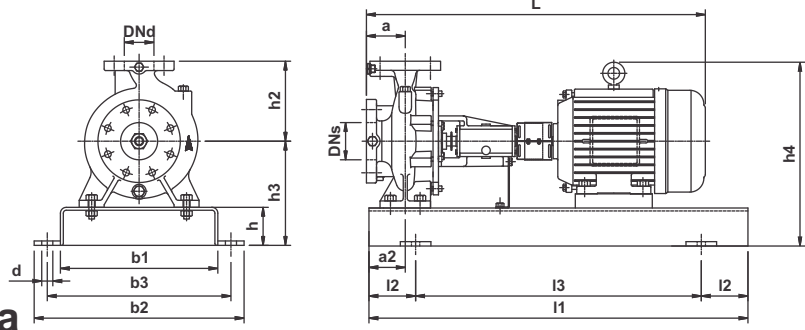
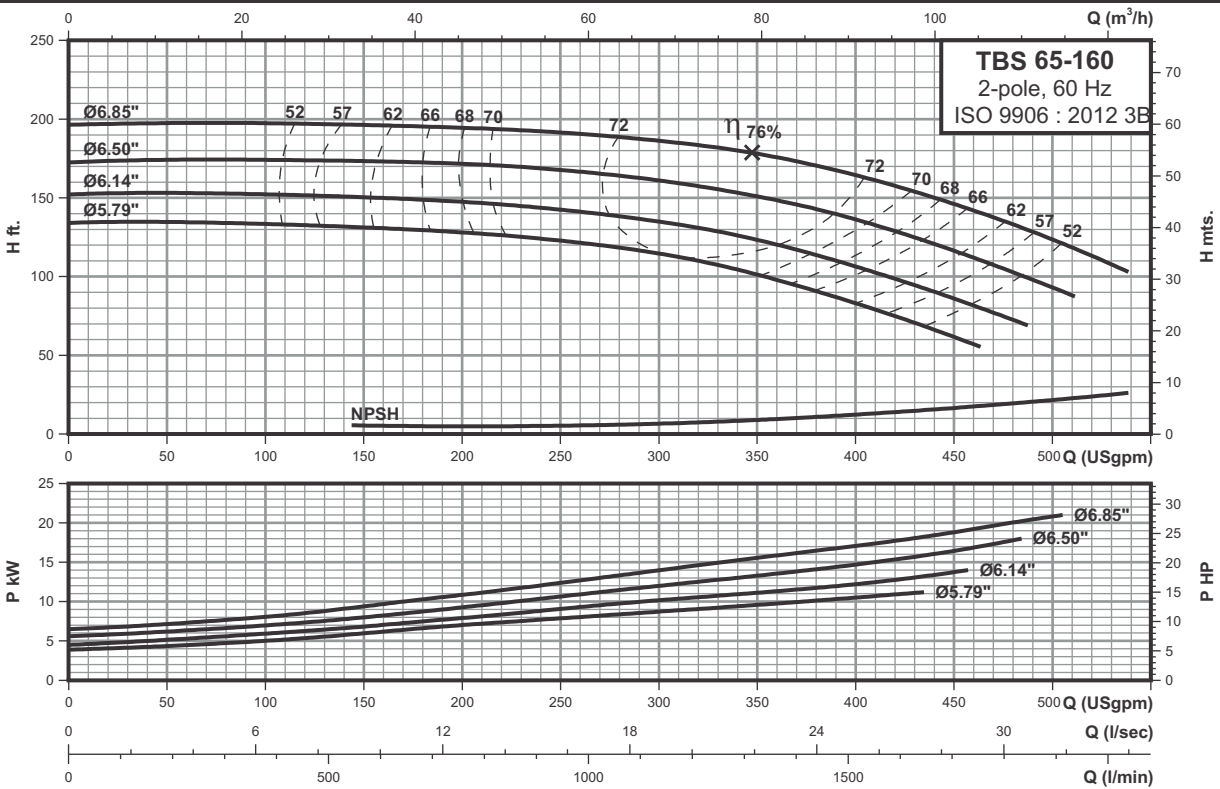
Performance curves

TBS 65-160

Single-stage bare shaft end-suction pumps

2-pole

2 POLE



Technical data

Power	(hp)	15	20	25	30
	(kw)	11	15	18.5	22
Frame		254T	256T	284TS	286TS
ANSI flange		125	125	125	125
DNs	inch(mm)	3.00(80)	3.00(80)	3.00(80)	3.00(80)
DNd	inch(mm)	2.50(65)	2.50(65)	2.50(65)	2.50(65)
a	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
h2	inch(mm)	7.87(200)	7.87(200)	7.87(200)	7.87(200)
L	inch(mm)	42.17(1071)	43.82(1113)	46.06(1170)	47.56(1208)
l1	inch(mm)	44.09(1120)	44.09(1120)	44.09(1120)	44.09(1120)
l2	inch(mm)	7.48(190)	7.48(190)	7.48(190)	7.48(190)
l3	inch(mm)	29.13(740)	29.13(740)	29.13(740)	29.13(740)
b1	inch(mm)	14.96(380)	14.96(380)	14.96(380)	14.96(380)
b2	inch(mm)	19.29(490)	19.29(490)	19.29(490)	19.29(490)
b3	inch(mm)	17.32(440)	17.32(440)	17.32(440)	17.32(440)
d	inch(mm)	0.94(24)	0.94(24)	0.94(24)	0.94(24)
a2	inch(mm)	2.95(75)	2.95(75)	2.95(75)	2.95(75)
h	inch(mm)	3.15(80)	3.15(80)	3.15(80)	3.15(80)
h3	inch(mm)	9.45(240)	9.45(240)	10.16(258)	10.24(260)
h4	inch(mm)	18.19(462)	18.19(462)	19.65(499)	19.76(502)
Base frame no.		5	5	5	5
Net Weight	lbs(kg)	397(181)	430(196)	590(268)	623(283)
Gross Weight	lbs(kg)	566(258)	599(273)	759(345)	792(360)
Volume	ft³(m³)	22.70(0.643)	22.70(0.643)	22.70(0.643)	22.70(0.643)

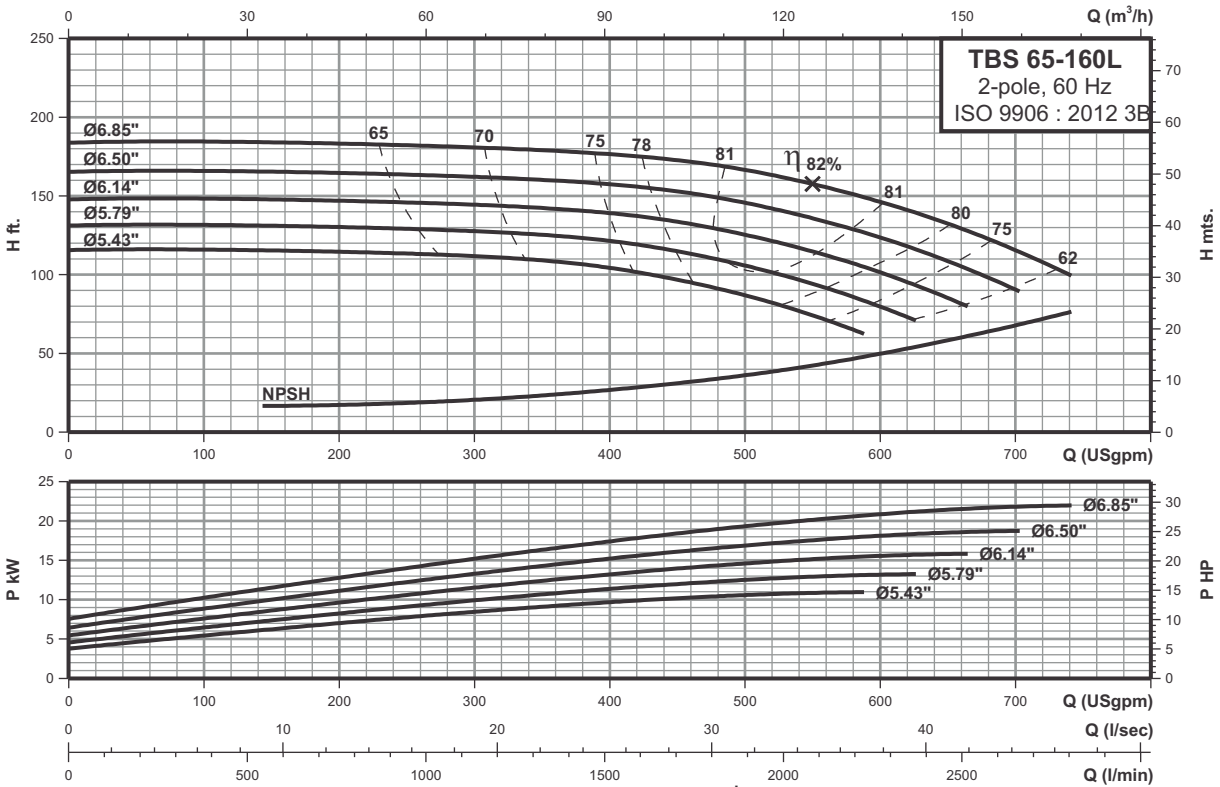
Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

Performance curves

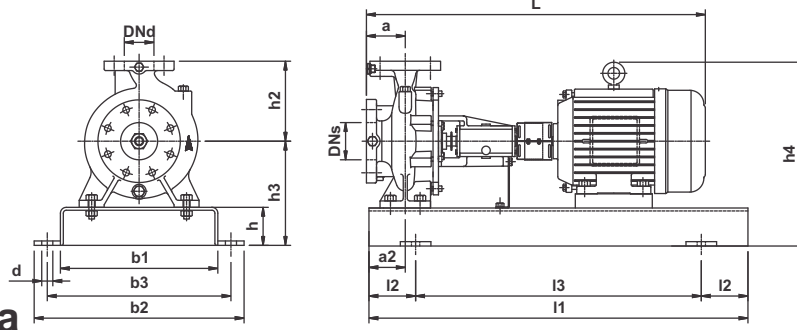
TBS 65-160L

Single-stage bare shaft end-suction pumps

2-pole



2 POLE



Technical data

Power	(hp)	15	20	25	30
	(kw)	11	15	18.5	22
Frame		254T	256T	284TS	286TS
ANSI flange		125	125	125	125
DNs	inch(mm)	3.00(80)	3.00(80)	3.00(80)	3.00(80)
DNd	inch(mm)	2.50(65)	2.50(65)	2.50(65)	2.50(65)
a	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
h2	inch(mm)	7.87(200)	7.87(200)	7.87(200)	7.87(200)
L	inch(mm)	42.17(1071)	43.82(1113)	46.06(1170)	47.56(1208)
l1	inch(mm)	44.09(1120)	44.09(1120)	44.09(1120)	44.09(1120)
l2	inch(mm)	7.48(190)	7.48(190)	7.48(190)	7.48(190)
l3	inch(mm)	29.13(740)	29.13(740)	29.13(740)	29.13(740)
b1	inch(mm)	14.96(380)	14.96(380)	14.96(380)	14.96(380)
b2	inch(mm)	19.29(490)	19.29(490)	19.29(490)	19.29(490)
b3	inch(mm)	17.32(440)	17.32(440)	17.32(440)	17.32(440)
d	inch(mm)	0.94(24)	0.94(24)	0.94(24)	0.94(24)
a2	inch(mm)	2.95(75)	2.95(75)	2.95(75)	2.95(75)
h	inch(mm)	3.15(80)	3.15(80)	3.15(80)	3.15(80)
h3	inch(mm)	9.45(240)	9.45(240)	10.16(258)	10.24(260)
h4	inch(mm)	18.19(462)	18.19(462)	19.65(499)	19.76(502)
Base frame no.		5	5	5	5
Net Weight	lbs(kg)	397(181)	430(196)	590(268)	623(283)
Gross Weight	lbs(kg)	566(258)	599(273)	759(345)	792(360)
Volume	ft³(m³)	22.70(0.643)	22.70(0.643)	22.70(0.643)	22.70(0.643)

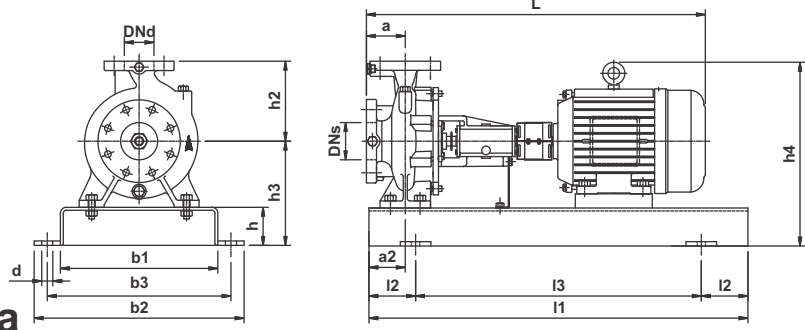
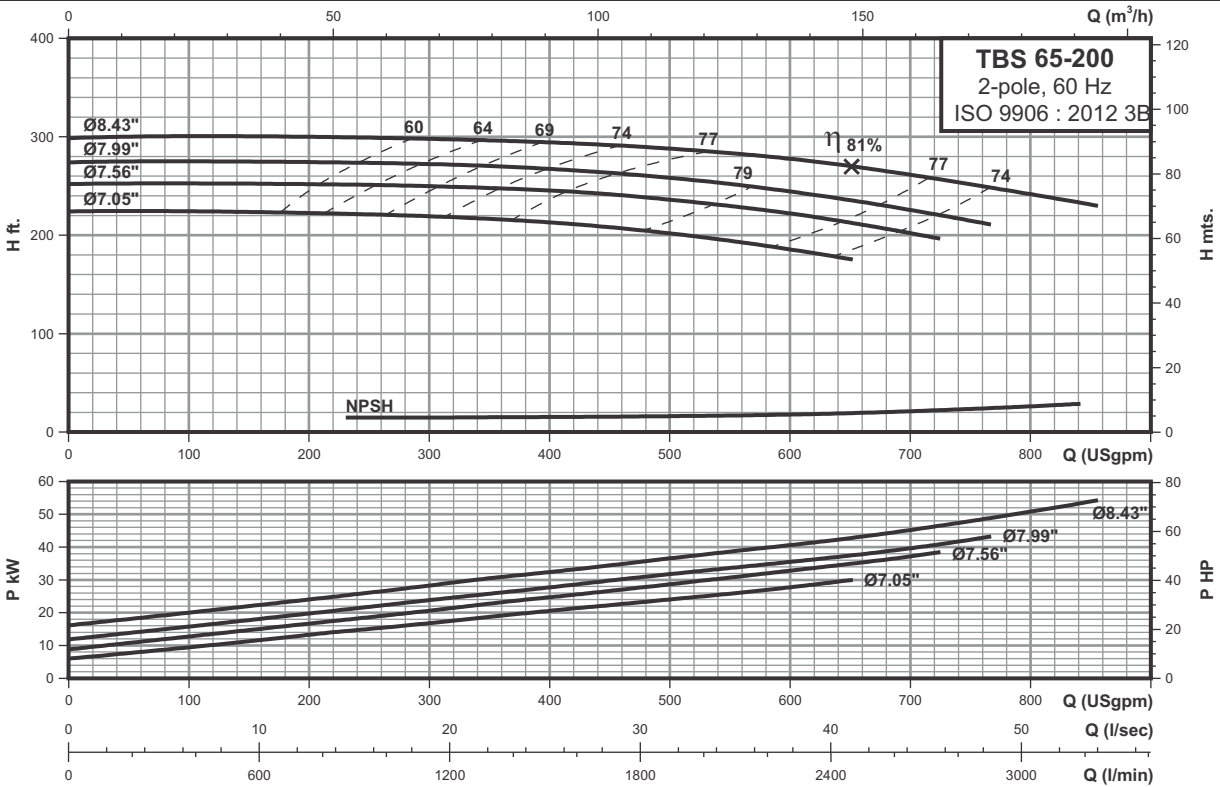
Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

Performance curves

Single-stage bare shaft end-suction pumps

TBS 65-200 2-pole

2 POLE



Technical data

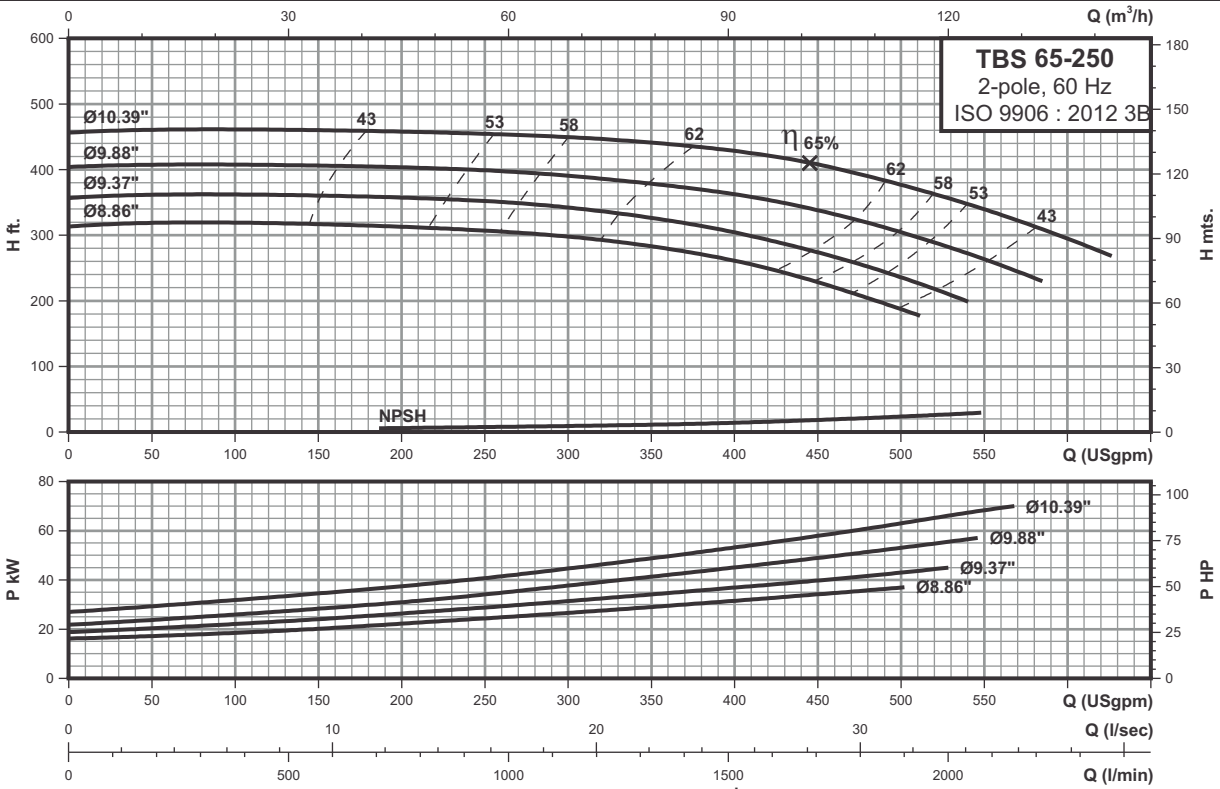
Power	(hp)	40	50	60	75
	(kw)	30	37	45	55
Frame		324TS	326TS	364TS	365TS
ANSI flange		125	125	125	250
DNs	inch(mm)	3.00(80)	3.00(80)	3.00(80)	3.00(80)
DNd	inch(mm)	2.50(65)	2.50(65)	2.50(65)	2.50(65)
a	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
h2	inch(mm)	8.86(225)	8.86(225)	8.86(225)	8.86(225)
L	inch(mm)	49.13(1248)	49.13(1248)	49.61(1260)	50.89(1285)
l1	inch(mm)	55.12(1400)	55.12(1400)	55.12(1400)	55.12(1400)
l2	inch(mm)	9.06(230)	9.06(230)	9.06(230)	9.06(230)
l3	inch(mm)	37.01(940)	37.01(940)	37.01(940)	37.01(940)
b1	inch(mm)	18.90(480)	18.90(480)	18.90(480)	18.90(480)
b2	inch(mm)	24.02(610)	24.02(610)	24.02(610)	24.02(610)
b3	inch(mm)	21.65(550)	21.65(550)	21.65(550)	21.65(550)
d	inch(mm)	1.10(28)	1.10(28)	1.10(28)	1.10(28)
a2	inch(mm)	2.95(75)	2.95(75)	2.95(75)	2.95(75)
h	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
h3	inch(mm)	11.81(300)	11.81(300)	12.95(329)	12.80(325)
h4	inch(mm)	21.93(557)	21.93(557)	24.13(613)	23.98(609)
Base frame no.		7	7	7	7
Net Weight	lbs(kg)	832(378)	876(398)	933(424)	1047(476)
Gross Weight	lbs(kg)	1070(486)	1114(506)	1041(532)	1285(584)
Volume	ft³(m³)	38.10(1.079)	38.10(1.079)	38.10(1.079)	38.10(1.079)

Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

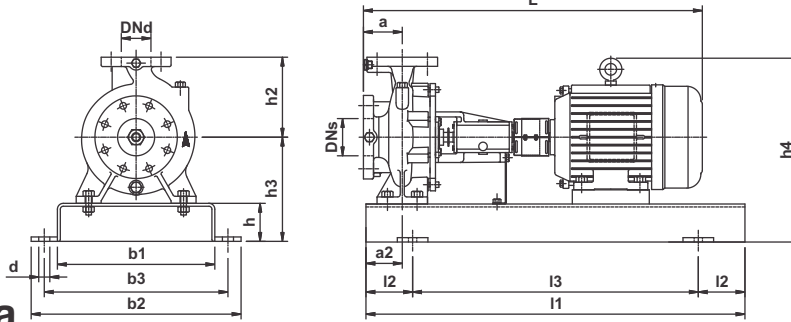
Performance curves

Single-stage bare shaft end-suction pumps

TBS 65-250 2-pole



2 POLE



Technical data

Power	(hp)	50	60	75	100
	(kw)	37	45	55	75
Frame		326TS	364TS	365TS	405TS
ANSI flange		250	250	250	250
DNs	inch(mm)	3.00(80)	3.00(80)	3.00(80)	3.00(80)
DNd	inch(mm)	2.50(65)	2.50(65)	2.50(65)	2.50(65)
a	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
h2	inch(mm)	9.84(250)	9.84(250)	9.84(250)	9.84(250)
L	inch(mm)	53.46(1358)	53.94(1370)	50.89(1395)	58.11(1476)
l1	inch(mm)	55.12(1400)	55.12(1400)	55.12(1400)	55.12(1400)
l2	inch(mm)	9.06(230)	9.06(230)	9.06(230)	9.06(230)
l3	inch(mm)	37.01(940)	37.01(940)	37.01(940)	37.01(940)
b1	inch(mm)	18.90(480)	18.90(480)	18.90(480)	18.90(480)
b2	inch(mm)	24.02(610)	24.02(610)	24.02(610)	24.02(610)
b3	inch(mm)	21.65(550)	21.65(550)	21.65(550)	21.65(550)
d	inch(mm)	1.10(28)	1.10(28)	1.10(28)	1.10(28)
a2	inch(mm)	3.54(90)	2.95(75)	2.95(75)	2.95(75)
h	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
h3	inch(mm)	11.81(300)	12.95(329)	12.80(325)	13.78(350)
h4	inch(mm)	21.93(557)	24.13(613)	23.98(609)	26.26(667)
Base frame no.		7	7	7	7
Net Weight	lbs(kg)	928(422)	986(448)	1100(500)	1493(679)
Gross Weight	lbs(kg)	1160(530)	1224(556)	1338(608)	1731(787)
Volume	ft³(m³)	38.10(1.079)	38.10(1.079)	38.10(1.079)	38.10(1.079)

Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

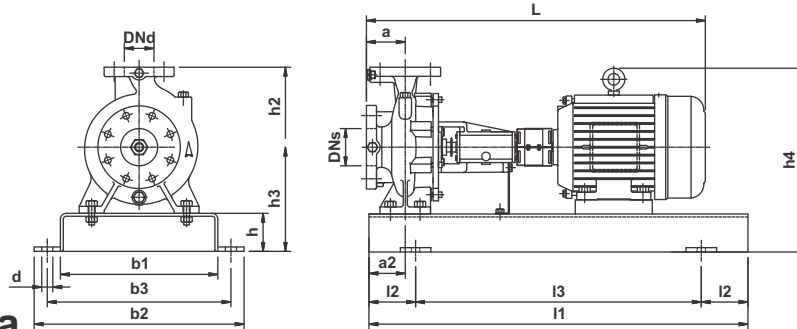
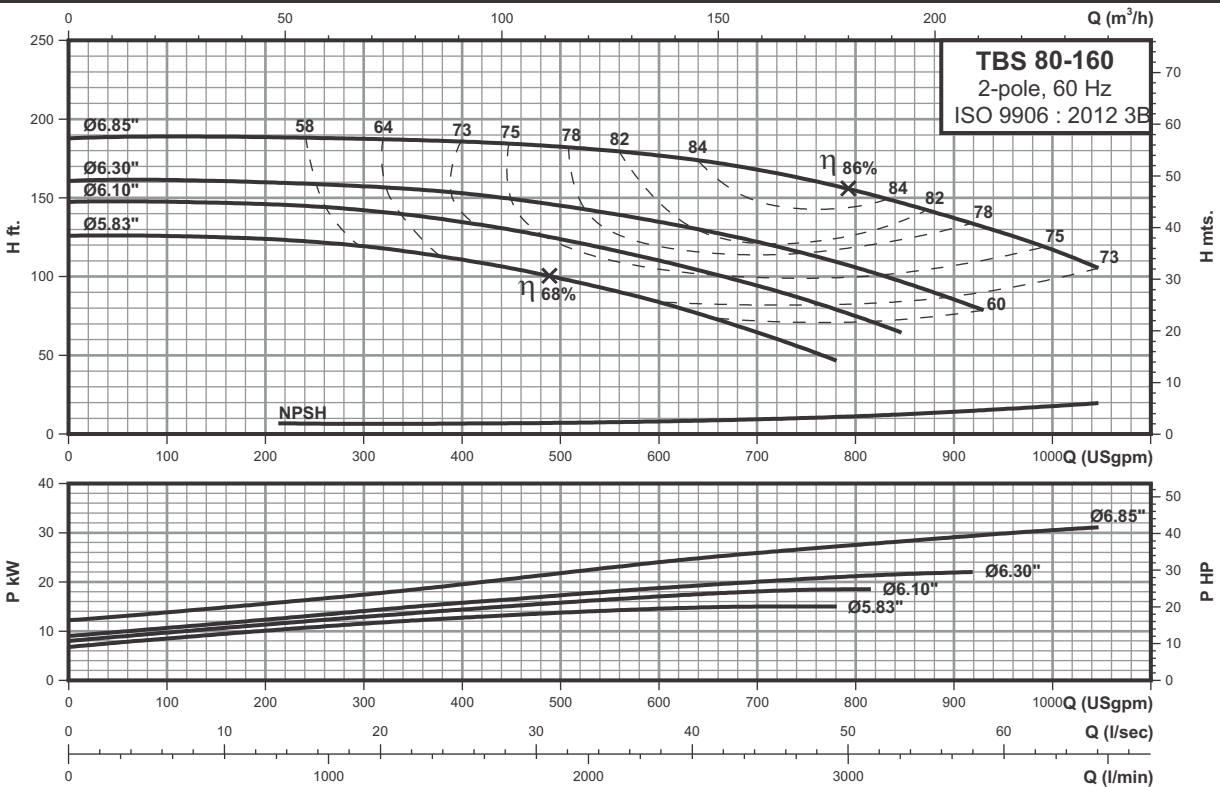
Performance curves

TBS 80-160

Single-stage bare shaft end-suction pumps

2-pole

2 POLE



Technical data

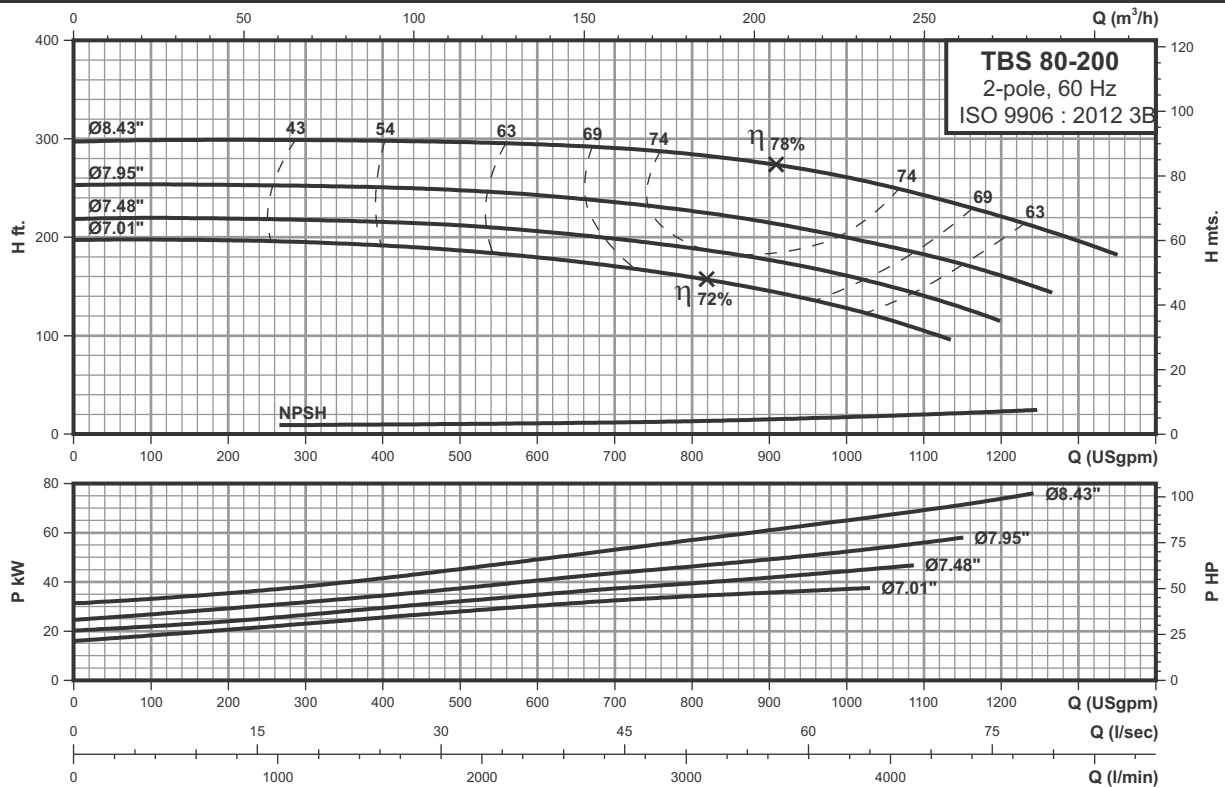
Power	(hp)	20	25	30	40
	(kw)	15	18.5	22	30
Frame		256T	284TS	286TS	324TS
ANSI flange		125	125	125	125
DNs	inch(mm)	4.00(100)	4.00(100)	4.00(100)	4.00(100)
DNd	inch(mm)	3.00(80)	3.00(80)	3.00(80)	3.00(80)
a	inch(mm)	4.92(125)	4.92(125)	4.92(125)	4.92(125)
h2	inch(mm)	8.86(225)	8.86(225)	8.86(225)	8.86(225)
L	inch(mm)	44.80(1138)	47.05(1195)	48.54(1233)	50.12(1273)
l1	inch(mm)	49.21(1250)	49.21(1250)	49.21(1250)	49.21(1250)
l2	inch(mm)	8.07(205)	8.07(205)	8.07(205)	8.07(205)
l3	inch(mm)	33.07(840)	33.07(840)	33.07(840)	33.07(840)
b1	inch(mm)	16.93(430)	16.93(430)	16.93(430)	16.93(430)
b2	inch(mm)	21.26(540)	21.26(540)	21.26(540)	21.26(540)
b3	inch(mm)	19.29(490)	19.29(490)	19.29(490)	19.29(490)
d	inch(mm)	0.94(24)	0.94(24)	0.94(24)	0.94(24)
a2	inch(mm)	2.95(75)	2.95(75)	2.95(75)	2.95(75)
h	inch(mm)	3.15(80)	3.15(80)	3.15(80)	3.15(80)
h3	inch(mm)	10.24(260)	10.24(260)	10.24(260)	11.02(280)
h4	inch(mm)	18.98(482)	19.76(502)	19.76(502)	21.14(537)
Base frame no.		6	6	6	6
Net Weight	lbs(kg)	1100(500)	1493(679)	1736(789)	1903(865)
Gross Weight	lbs(kg)	1338(608)	1731(787)	1974(897)	2141(973)
Volume	ft³(m³)	38.10(1.079)	38.10(1.079)	38.10(1.079)	38.10(1.079)

Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

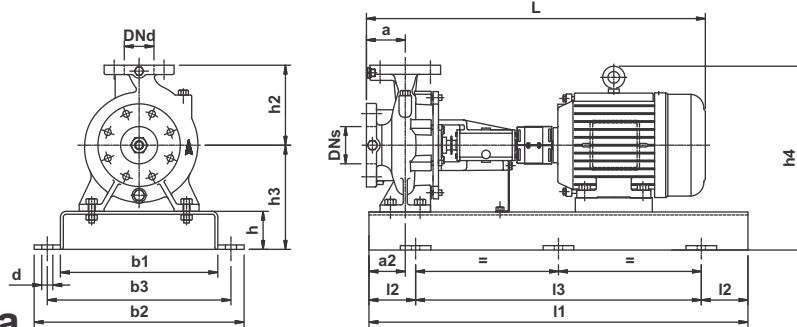
Performance curves

Single-stage bare shaft end-suction pumps

TBS 80-200 2-pole



2 POLE



Technical data

Power	(hp)	50	60	75	100
	(kw)	37	45	55	75
Frame		326TS	364TS	365TS	405TS
ANSI flange		125	125	125	250
DNs	inch(mm)	4.00(100)	4.00(100)	4.00(100)	4.00(100)
DNd	inch(mm)	3.00(80)	3.00(80)	3.00(80)	3.00(80)
a	inch(mm)	4.92(125)	4.92(125)	4.92(125)	4.92(125)
h2	inch(mm)	9.84(250)	9.84(250)	9.84(250)	9.84(250)
L	inch(mm)	54.41(1382)	54.88(1394)	55.87(1419)	59.06(1500)
l1	inch(mm)	55.12(1400)	55.12(1400)	55.12(1400)	62.99(1600)
l2	inch(mm)	9.06(230)	9.06(230)	9.06(230)	10.63(270)
l3	inch(mm)	37.01(940)	37.01(940)	37.01(940)	41.73(1060)
b1	inch(mm)	18.90(480)	18.90(480)	18.90(480)	20.87(530)
b2	inch(mm)	24.02(610)	24.02(610)	24.02(610)	25.98(660)
b3	inch(mm)	21.65(550)	21.65(550)	21.65(550)	23.62(600)
d	inch(mm)	1.10(28)	1.10(28)	1.10(28)	1.10(28)
a2	inch(mm)	2.95(75)	2.95(75)	2.95(75)	2.95(75)
h	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
h3	inch(mm)	12.95(329)	12.95(329)	12.80(325)	13.78(350)
h4	inch(mm)	21.93(557)	24.13(613)	23.98(609)	26.26(667)
Base frame no.		7	7	7	8
Net Weight	lbs(kg)	911(414)	968(440)	1082(492)	1475(671)
Gross Weight	lbs(kg)	1149(522)	1206(548)	1320(600)	1768(804)
Volume	ft³(m³)	38.10(1.079)	38.10(1.079)	38.10(1.079)	52.05(1.474)

Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

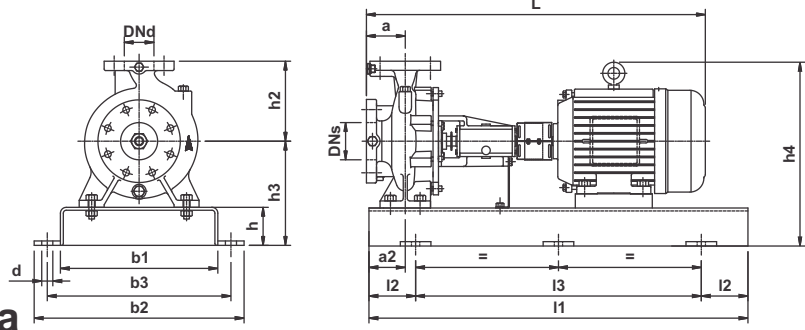
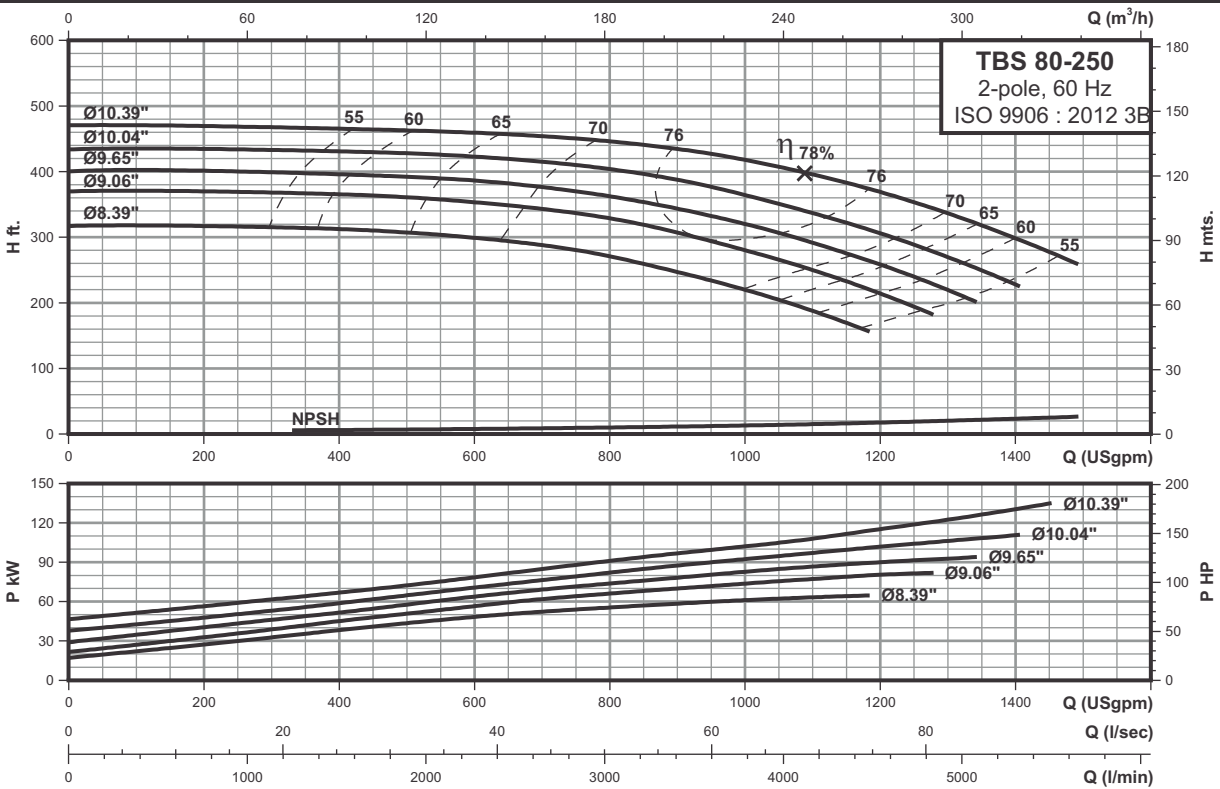
Performance curves

TBS 80-250

Single-stage bare shaft end-suction pumps

2-pole

2 POLE



Technical data

Power	(hp)	100	125	150	200
	(kw)	75	90	110	150
Frame		405TS	444TS	445TS	505TS
ANSI flange		250	250	250	250
DNs	inch(mm)	4.00(100)	4.00(100)	4.00(100)	4.00(100)
DNd	inch(mm)	3.00(80)	3.00(80)	3.00(80)	3.00(80)
a	inch(mm)	4.92(125)	4.92(125)	4.92(125)	4.92(125)
h2	inch(mm)	11.02(280)	11.02(280)	11.02(280)	11.02(280)
L	inch(mm)	59.09(1501)	62.68(1592)	62.68(1592)	68.27(1734)
l1	inch(mm)	62.99(1600)	70.87(1800)	70.87(1800)	70.87(1800)
l2	inch(mm)	10.63(270)	11.81(300)	11.81(300)	11.81(300)
l3	inch(mm)	41.73(1060)	47.24(1200)	47.24(1200)	47.24(1200)
b1	inch(mm)	20.87(530)	23.62(600)	23.62(600)	23.62(600)
b2	inch(mm)	25.98(660)	28.74(730)	28.74(730)	28.74(730)
b3	inch(mm)	23.62(600)	26.38(670)	26.38(670)	26.38(670)
d	inch(mm)	1.10(28)	1.10(28)	1.10(28)	1.10(28)
a2	inch(mm)	3.54(90)	3.54(90)	3.54(90)	3.54(90)
h	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
h3	inch(mm)	13.78(350)	14.96(380)	14.96(380)	16.46(418)
h4	inch(mm)	26.26(667)	28.90(734)	28.90(734)	34.21(869)
Base frame no.		8	9	9	9
Net Weight	lbs(kg)	1506(685)	1749(795)	1916(871)	2431(1105)
Gross Weight	lbs(kg)	1799(818)	2101(955)	2268(1081)	2783(1265)
Volume	ft³(m³)	52.05(1.474)	68.78(1.948)	68.78(1.948)	68.78(1.948)

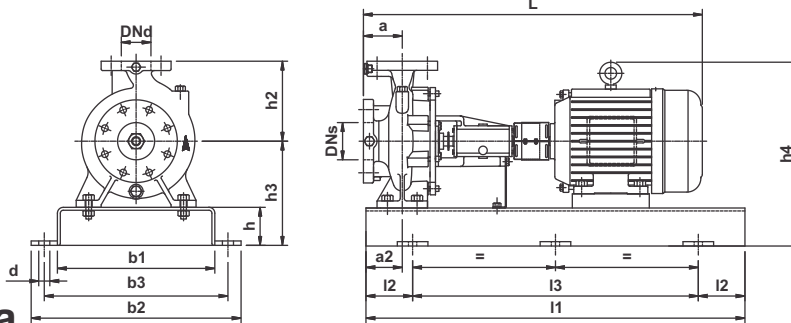
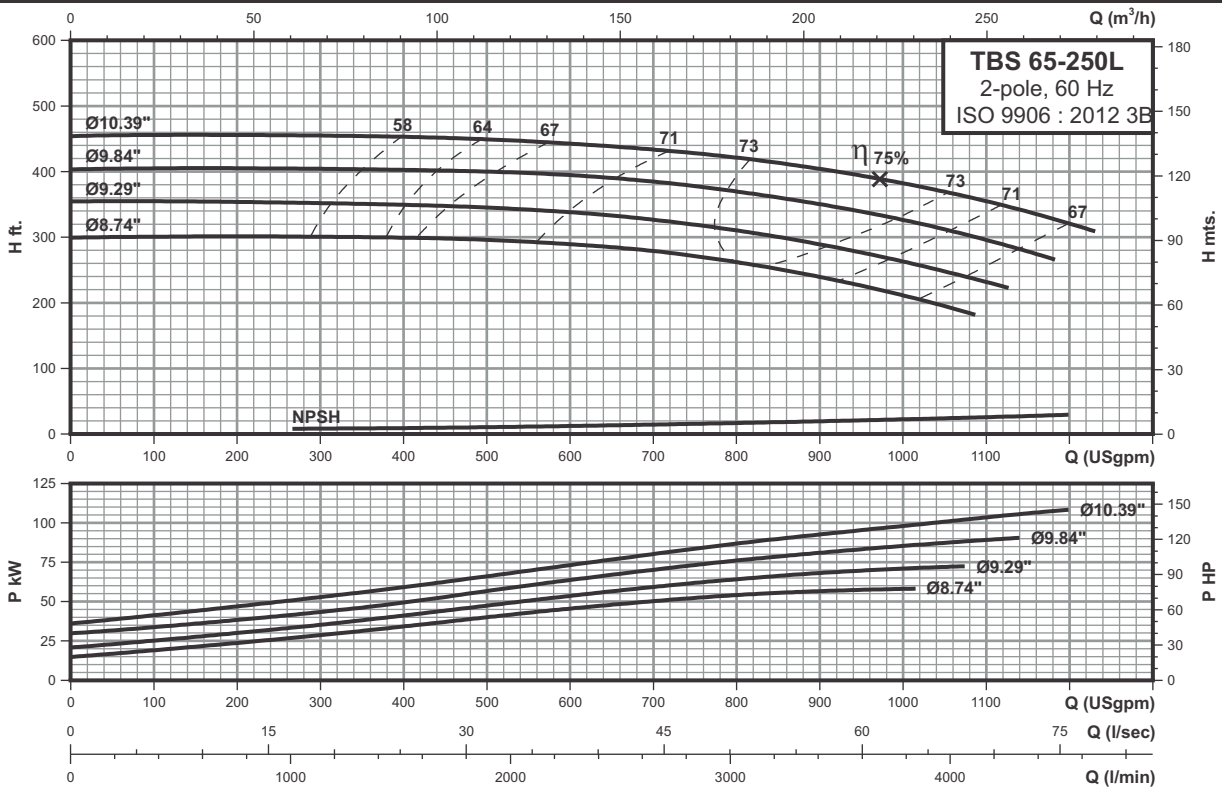
Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

Performance curves

TBS 65-250L

Single-stage bare shaft end-suction pumps

2-pole



Technical data

Power	(hp)	75	100	125	150
	(kw)	55	75	90	110
Frame		365TS	405TS	444TS	445TS
ANSI flange		250	250	250	250
DNs	inch(mm)	4.00(100)	4.00(100)	4.00(100)	4.00(100)
DNd	inch(mm)	2.50(65)	2.50(65)	2.50(65)	2.50(65)
a	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
h2	inch(mm)	9.84(250)	9.84(250)	9.84(250)	9.84(250)
L	inch(mm)	54.92(1395)	58.11(1476)	61.69(1567)	61.69(1567)
l1	inch(mm)	55.12(1400)	62.99(1600)	70.87(1800)	70.87(1800)
l2	inch(mm)	9.06(230)	10.63(270)	11.81(300)	11.81(300)
l3	inch(mm)	37.01(940)	41.73(1060)	47.24(1200)	47.24(1200)
b1	inch(mm)	18.90(480)	20.87(530)	23.62(600)	23.62(600)
b2	inch(mm)	24.02(610)	25.98(660)	28.74(730)	28.74(730)
b3	inch(mm)	21.65(550)	23.62(600)	26.38(670)	26.38(670)
d	inch(mm)	1.10(28)	1.10(28)	1.10(28)	1.10(28)
a2	inch(mm)	3.54(90)	3.54(90)	3.54(90)	3.54(90)
h	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
h3	inch(mm)	12.08(325)	13.78(350)	14.96(380)	14.96(380)
h4	inch(mm)	23.98(609)	26.26(667)	28.94(735)	28.94(735)
Base frame no.		7	8	9	9
Net Weight	lbs(kg)	1100(500)	1506(685)	1749(795)	1916(871)
Gross Weight	lbs(kg)	1338(608)	1799(818)	2101(955)	2268(103.1)
Volume	ft³(m³)	38.10(1.079)	52.05(1.474)	68.78(1.948)	68.78(1.948)

Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

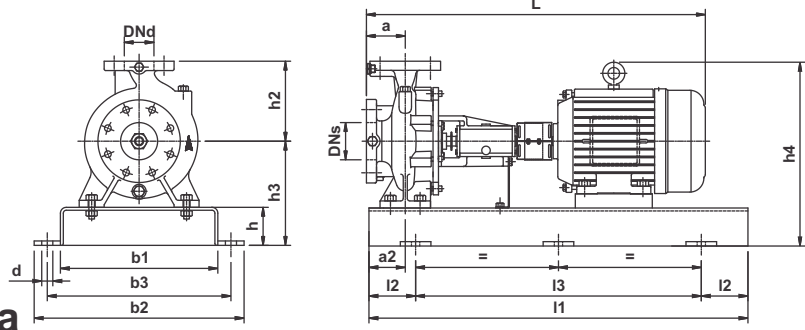
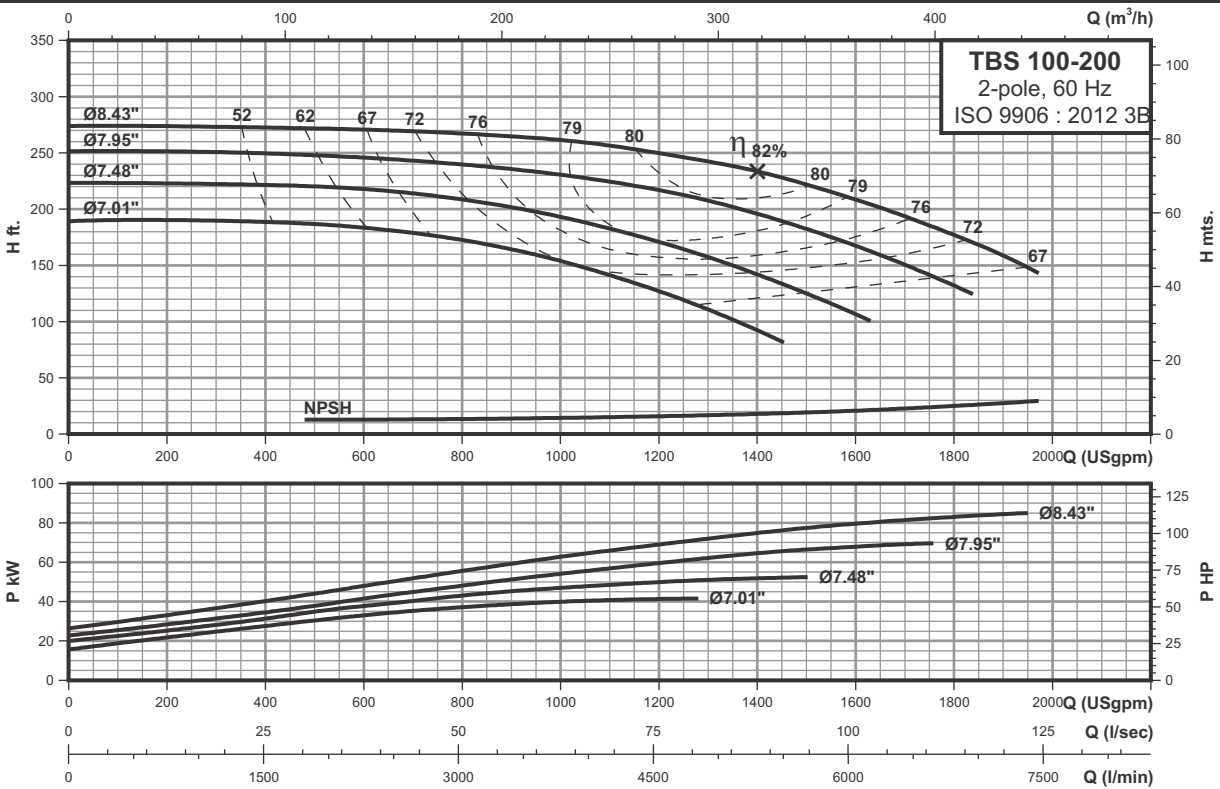
Performance curves

TBS 100-200

Single-stage bare shaft end-suction pumps

2-pole

2 POLE



Technical data

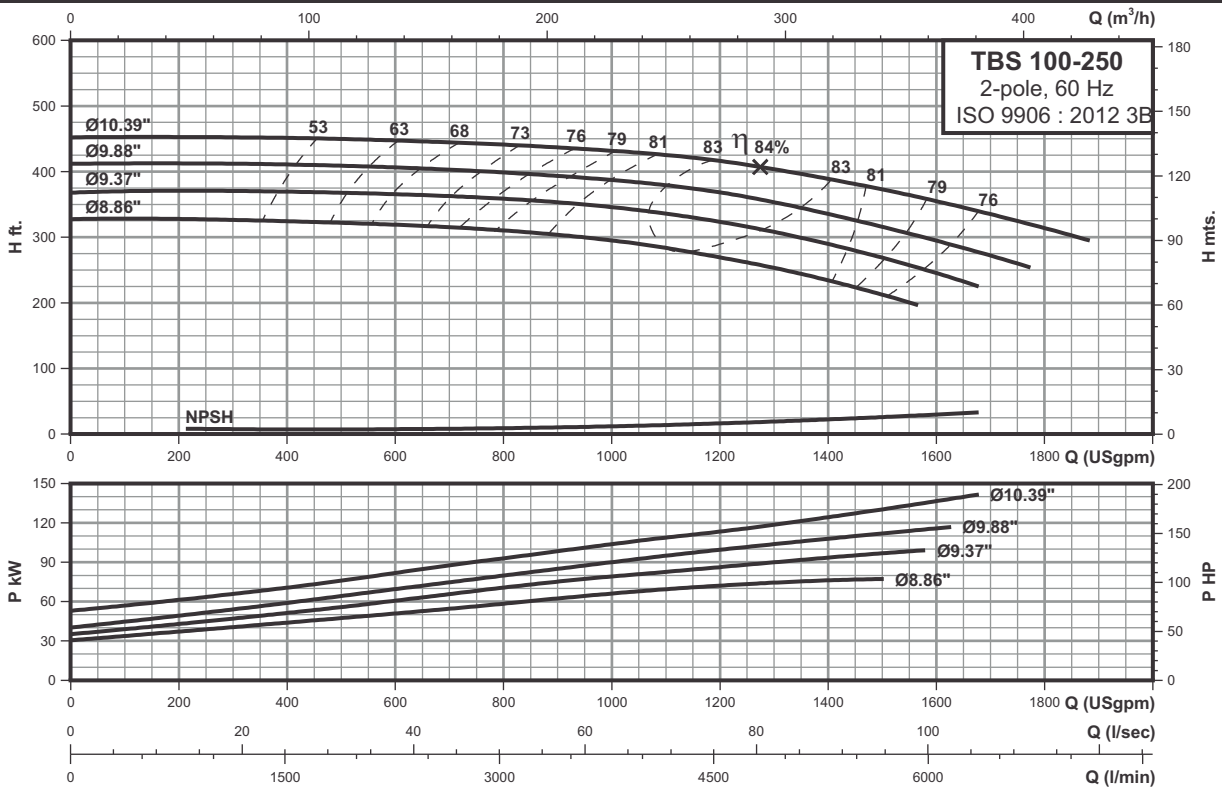
Power	(hp)	60	75	100	125
	(kw)	45	55	75	90
Frame		364TS	365TS	405TS	444TS
ANSI flange		125	125	125	125
DNs	inch(mm)	5.00(125)	5.00(125)	5.00(125)	5.00(125)
DNd	inch(mm)	4.00(100)	4.00(100)	4.00(100)	4.00(100)
a	inch(mm)	4.92(125)	4.92(125)	4.92(125)	4.92(125)
h2	inch(mm)	11.02(280)	11.02(280)	11.02(280)	11.02(280)
L	inch(mm)	54.88(1394)	55.87(1419)	59.09(1501)	62.64(1591)
l1	inch(mm)	55.12(1400)	55.12(1400)	62.99(1600)	62.99(1600)
l2	inch(mm)	9.06(230)	9.06(230)	10.63(270)	10.63(270)
l3	inch(mm)	37.01(940)	37.01(940)	41.73(1060)	41.73(1060)
b1	inch(mm)	18.90(480)	18.90(480)	20.87(530)	20.87(530)
b2	inch(mm)	24.02(610)	24.02(610)	25.98(660)	25.98(660)
b3	inch(mm)	21.65(550)	21.65(550)	23.62(600)	23.62(600)
d	inch(mm)	1.10(28)	1.10(28)	1.10(28)	1.10(28)
a2	inch(mm)	3.54(90)	3.54(90)	3.54(90)	3.54(90)
h	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
h3	inch(mm)	12.95(329)	12.95(329)	13.94(354)	14.96(380)
h4	inch(mm)	24.13(613)	24.13(613)	26.42(671)	28.94(735)
Base frame no.		7	7	8	8
Net Weight	lbs(kg)	992(451)	1107(503)	1499(682)	1705(775)
Gross Weight	lbs(kg)	1230(559)	1345(611)	1792(815)	1998(908)
Volume	ft³(m³)	38.10(1.079)	38.10(1.079)	52.05(1.474)	52.05(1.474)

Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

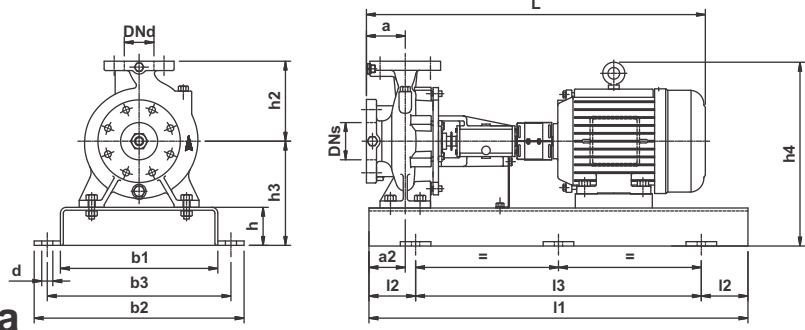
Performance curves

Single-stage bare shaft end-suction pumps

TBS 100-250 2-pole



2 POLE



Technical data

Power	(hp)	100	125	150	200
	(kw)	75	90	110	150
Frame		405TS	444TS	445TS	505TS
ANSI flange		250	250	250	250
DNs	inch(mm)	5.00(125)	5.00(125)	5.00(125)	5.00(125)
DNd	inch(mm)	4.00(100)	4.00(100)	4.00(100)	4.00(100)
a	inch(mm)	5.51(140)	5.51(140)	5.51(140)	5.51(140)
h2	inch(mm)	11.02(280)	11.02(280)	11.02(280)	11.02(280)
L	inch(mm)	56.69(1516)	63.23(1606)	63.23(1606)	68.86(1749)
l1	inch(mm)	62.99(1600)	70.87(1800)	70.87(1800)	70.87(1800)
l2	inch(mm)	10.63(270)	11.81(300)	11.81(300)	11.81(300)
l3	inch(mm)	41.73(1060)	47.24(1200)	47.24(1200)	47.24(1200)
b1	inch(mm)	20.87(530)	23.62(600)	23.62(600)	23.62(600)
b2	inch(mm)	25.98(660)	28.74(730)	28.74(730)	28.74(730)
b3	inch(mm)	23.62(600)	26.38(670)	26.38(670)	26.38(670)
d	inch(mm)	1.10(28)	1.10(28)	1.10(28)	1.10(28)
a2	inch(mm)	3.54(90)	3.54(90)	3.54(90)	3.54(90)
h	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
h3	inch(mm)	13.94(354)	14.96(380)	14.96(380)	16.46(418)
h4	inch(mm)	26.42(671)	28.94(735)	28.94(735)	34.21(869)
Base frame no.		8	9	9	9
Net Weight	lbs(kg)	1524(693)	1767(803)	1934(879)	2449(1113)
Gross Weight	lbs(kg)	1817(826)	2119(963)	2286(1039)	2801(1273)
Volume	ft³(m³)	52.05(1.474)	68.78(1.948)	68.78(1.948)	68.78(1.948)

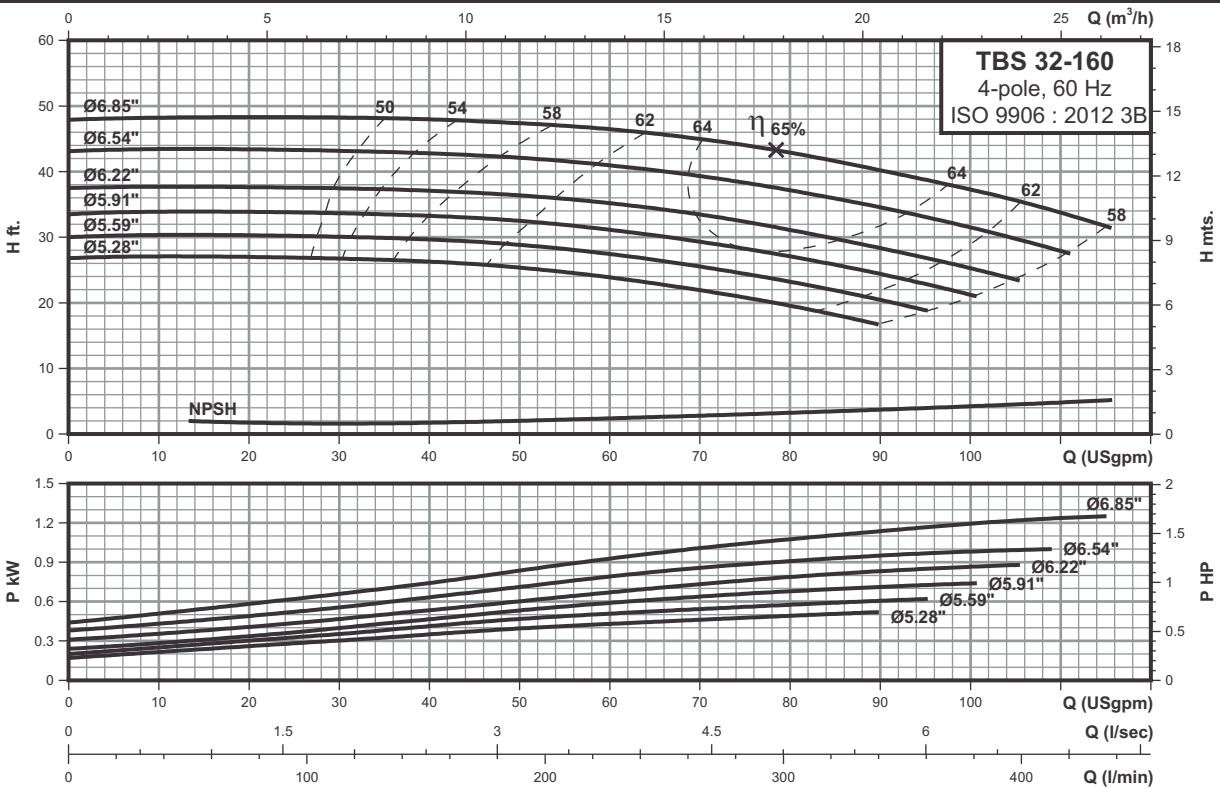
Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

Performance curves

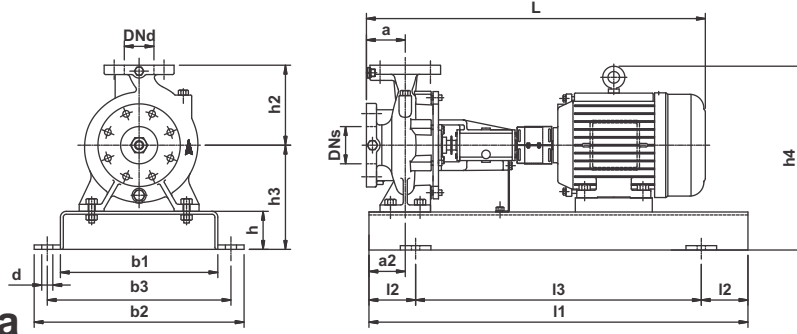
TBS 32-160

Single-stage bare shaft end-suction pumps

4-pole



4 POLE



Technical data

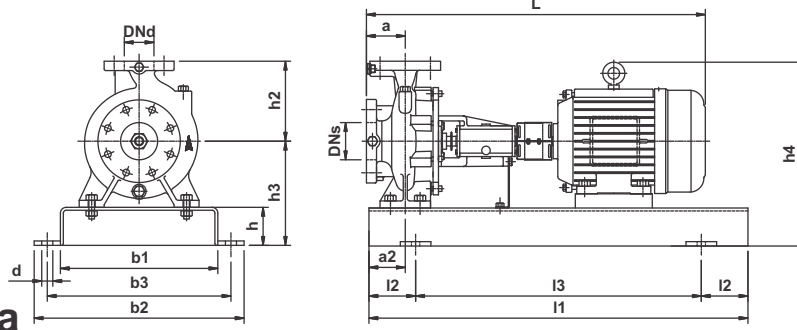
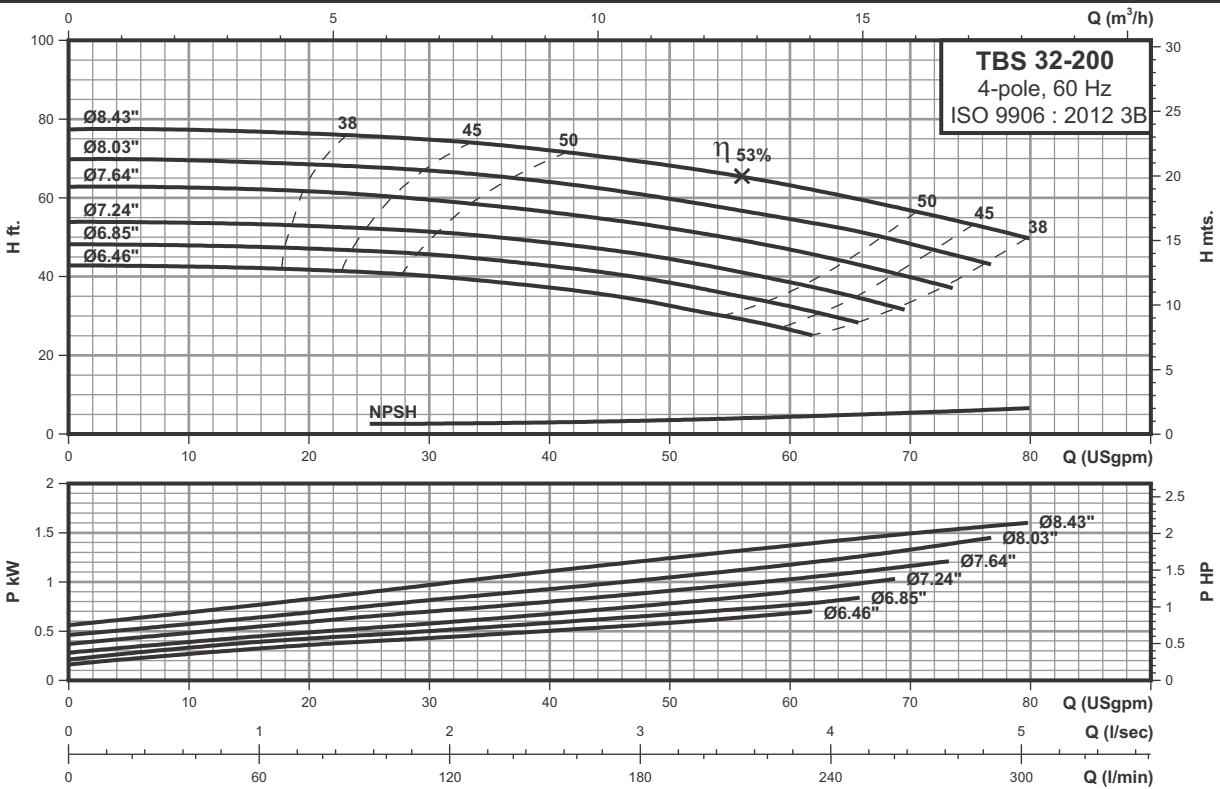
Power	(hp)	1	1.5	2
	(kw)	0.75	1.1	1.5
Frame		143T	145T	145T
ANSI flange		125	125	125
DNs	inch(mm)	2.00(50)	2.00(50)	2.00(50)
DNd	inch(mm)	1.25(32)	1.25(32)	1.25(32)
a	inch(mm)	3.15(80)	3.15(80)	3.15(80)
h2	inch(mm)	6.30(160)	6.30(160)	6.30(160)
L	inch(mm)	31.30(795)	31.30(795)	31.30(795)
I1	inch(mm)	31.50(800)	35.43(900)	35.43(900)
I2	inch(mm)	5.12(130)	5.91(150)	5.91(150)
I3	inch(mm)	21.26(540)	23.62(600)	23.62(600)
b1	inch(mm)	10.63(270)	11.81(300)	11.81(300)
b2	inch(mm)	14.17(360)	15.35(390)	15.35(390)
b3	inch(mm)	12.60(320)	13.78(350)	13.78(350)
d	inch(mm)	0.75(19)	0.75(19)	0.75(19)
a2	inch(mm)	2.36(60)	2.36(60)	2.36(60)
h	inch(mm)	2.56(65)	2.56(65)	2.56(65)
h3	inch(mm)	7.76(197)	7.76(197)	7.76(197)
h4	inch(mm)	12.99(330)	12.99(330)	12.99(330)
Base frame no.		2	3	3
Net Weight	lbs(kg)	157(72)	165(75)	169(77)
Gross Weight	lbs(kg)	276(126)	284(129)	288(131)
Volume	ft³(m³)	12.92(0.366)	12.92(0.366)	12.92(0.366)

Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

Performance curves

Single-stage bare shaft end-suction pumps

TBS 32-200 4-pole



Technical data

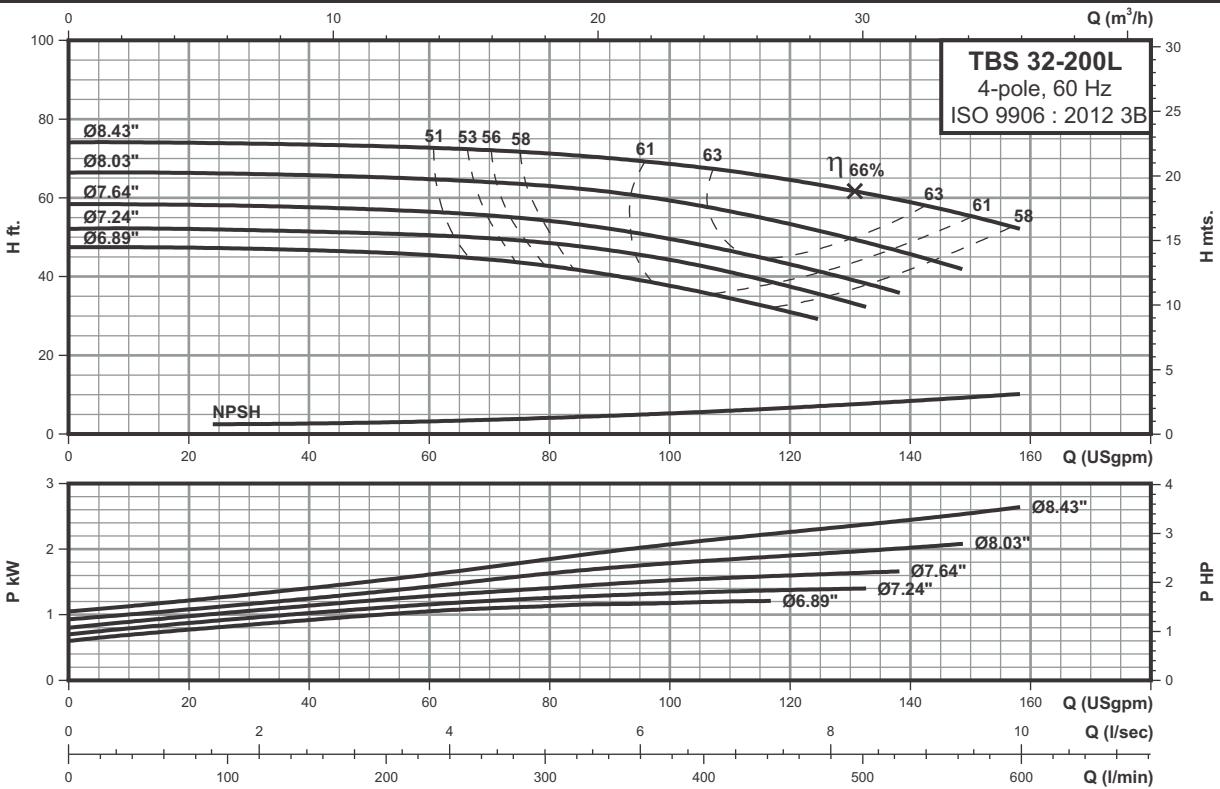
Power	(hp)	1	1.5	2
	(kw)	0.75	1.1	1.5
Frame		143T	145T	145T
ANSI flange		125	125	125
DNs	inch(mm)	2.00(50)	2.00(50)	2.00(50)
DNd	inch(mm)	1.25(32)	1.25(32)	1.25(32)
a	inch(mm)	3.15(80)	3.15(80)	3.15(80)
h2	inch(mm)	7.09(180)	7.09(180)	7.09(180)
L	inch(mm)	31.30(795)	31.30(795)	31.30(795)
l1	inch(mm)	31.50(800)	35.43(900)	35.43(900)
l2	inch(mm)	5.12(130)	5.91(150)	5.91(150)
l3	inch(mm)	21.26(540)	23.62(600)	23.62(600)
b1	inch(mm)	10.63(270)	11.81(300)	11.81(300)
b2	inch(mm)	14.17(360)	15.35(390)	15.35(390)
b3	inch(mm)	12.60(320)	13.78(350)	13.78(350)
d	inch(mm)	0.75(19)	0.75(19)	0.75(19)
a2	inch(mm)	2.36(60)	2.36(60)	2.36(60)
h	inch(mm)	2.56(65)	2.56(65)	2.56(65)
h3	inch(mm)	8.86(225)	8.86(225)	8.86(225)
h4	inch(mm)	14.09(358)	14.09(358)	14.09(358)
Base frame no.		2	3	3
Net Weight	lbs(kg)	168(77)	176(80)	180(82)
Gross Weight	lbs(kg)	287(131)	295(134)	299(136)
Volume	ft³(m³)	12.92(0.366)	12.92(0.366)	12.92(0.366)

Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

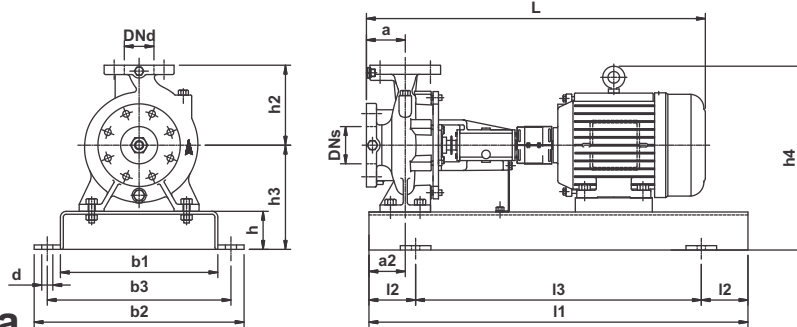
Performance curves

Single-stage bare shaft end-suction pumps

TBS 32-200L 4-pole



4 POLE



Technical data

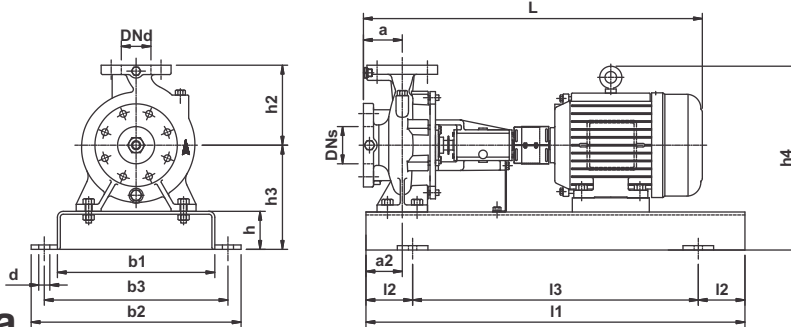
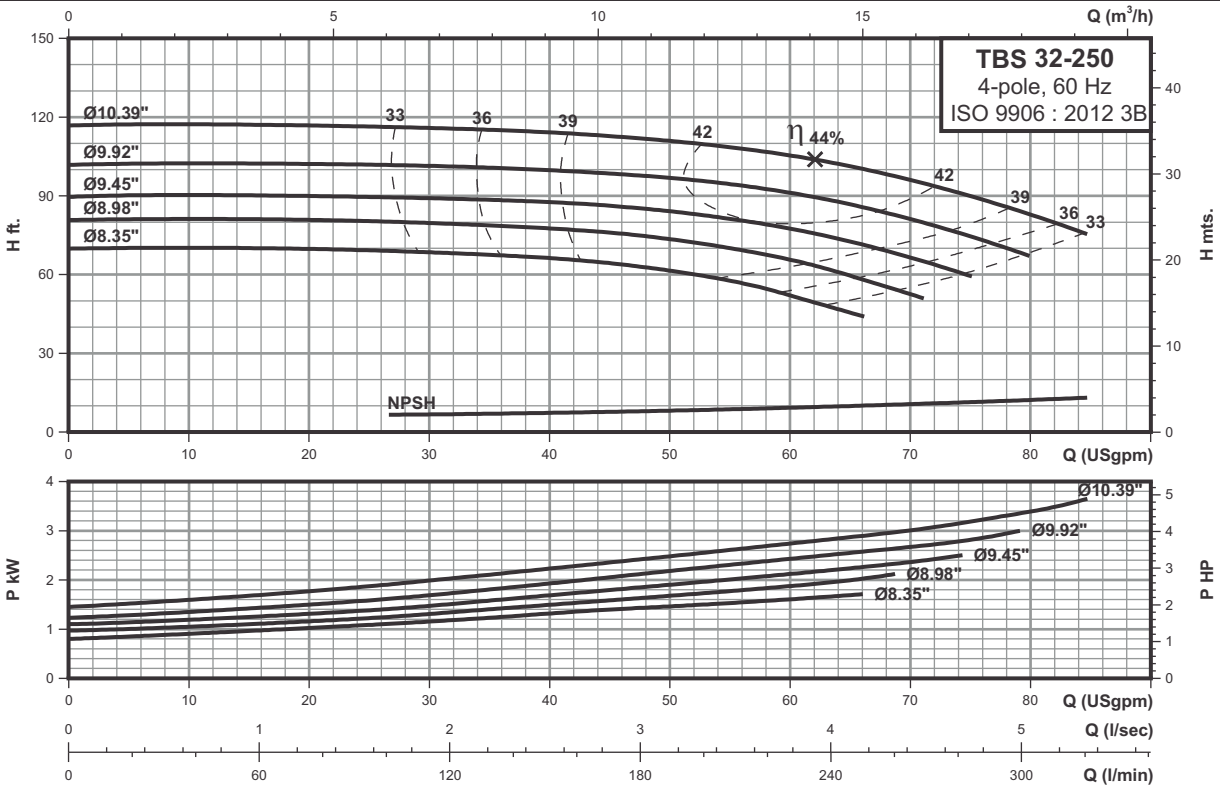
		1.5	2	3	4
Power	(hp)	1.5	2	3	4
	(kw)	1.1	1.5	2.2	3
Frame		145T	145T	182T	184T
ANSI flange		125	125	125	125
DNs	inch(mm)	2.00(50)	2.00(50)	2.00(50)	2.00(50)
DNd	inch(mm)	1.25(32)	1.25(32)	1.25(32)	1.25(32)
a	inch(mm)	3.15(80)	3.15(80)	3.15(80)	3.15(80)
h2	inch(mm)	7.09(180)	7.09(180)	7.09(180)	7.09(180)
L	inch(mm)	31.30(795)	31.30(795)	33.90(861)	34.09(866)
l1	inch(mm)	35.43(900)	35.43(900)	35.43(900)	35.43(900)
l2	inch(mm)	5.91(150)	5.91(150)	5.91(150)	5.91(150)
l3	inch(mm)	23.62(600)	23.62(600)	23.62(600)	23.62(600)
b1	inch(mm)	11.81(300)	11.81(300)	11.81(300)	11.81(300)
b2	inch(mm)	15.35(390)	15.35(390)	15.35(390)	15.35(390)
b3	inch(mm)	13.78(350)	13.78(350)	13.78(350)	13.78(350)
d	inch(mm)	0.75(19)	0.75(19)	0.75(19)	0.75(19)
a2	inch(mm)	2.36(60)	2.36(60)	2.36(60)	2.36(60)
h	inch(mm)	2.56(65)	2.56(65)	2.56(65)	2.56(65)
h3	inch(mm)	8.86(225)	8.86(225)	8.86(225)	8.86(225)
h4	inch(mm)	14.09(358)	14.09(358)	15.00(381)	15.00(381)
Base frame no.		3	3	3	3
Net Weight	lbs(kg)	172(78)	176(80)	205(93)	209(95)
Gross Weight	lbs(kg)	291(132)	295(134)	324(147)	328(149)
Volume	ft³(m³)	12.92(0.366)	12.92(0.366)	12.92(0.366)	12.92(0.366)

Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

Performance curves

TBS 32-250 4-pole

Single-stage bare shaft end-suction pumps



Technical data

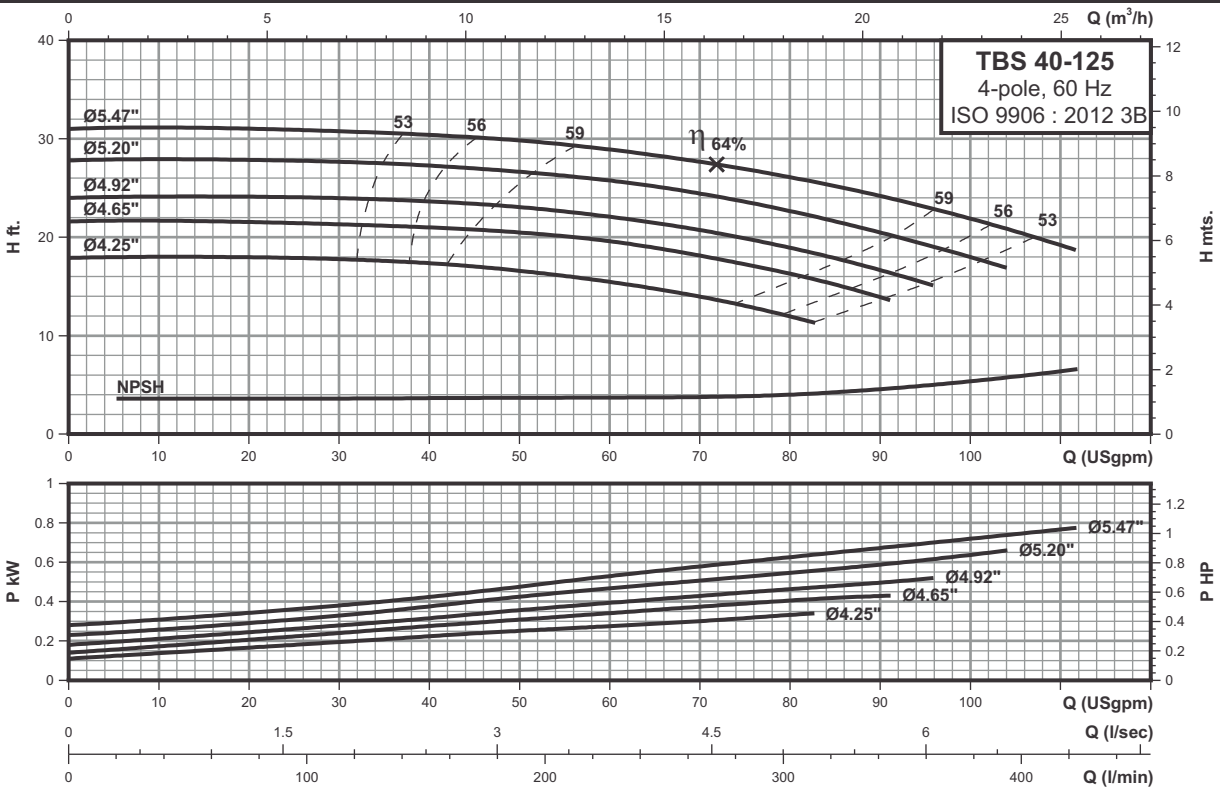
		3	4	5
Power	(hp)	3	4	5
	(kw)	2.2	3	3.7
Frame		182T	184T	184T
ANSI flange		125	125	125
DNs	inch(mm)	2.00(50)	2.00(50)	2.00(50)
DNd	inch(mm)	1.25(32)	1.25(32)	1.25(32)
a	inch(mm)	3.94(100)	3.94(100)	3.94(100)
h2	inch(mm)	8.86(225)	8.86(225)	8.86(225)
L	inch(mm)	34.69(881)	34.88(886)	34.88(886)
l1	inch(mm)	39.37(1000)	39.37(1000)	39.37(1000)
l2	inch(mm)	6.69(170)	6.69(170)	6.69(170)
l3	inch(mm)	25.98(660)	25.98(660)	25.98(660)
b1	inch(mm)	13.39(340)	13.39(340)	13.39(340)
b2	inch(mm)	17.72(450)	17.72(450)	17.72(450)
b3	inch(mm)	15.75(400)	15.75(400)	15.75(400)
d	inch(mm)	0.94(24)	0.94(24)	0.94(24)
a2	inch(mm)	2.95(75)	2.95(75)	2.95(75)
h	inch(mm)	3.15(80)	3.15(80)	3.15(80)
h3	inch(mm)	10.24(260)	10.24(260)	10.24(260)
h4	inch(mm)	16.38(416)	16.38(416)	16.38(416)
Base frame no.		4	4	4
Net Weight	lbs(kg)	238(108)	242(110)	247(112)
Gross Weight	lbs(kg)	407(185)	411(187)	416(189)
Volume	ft³(m³)	22.70(0.643)	22.70(0.643)	22.70(0.643)

Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

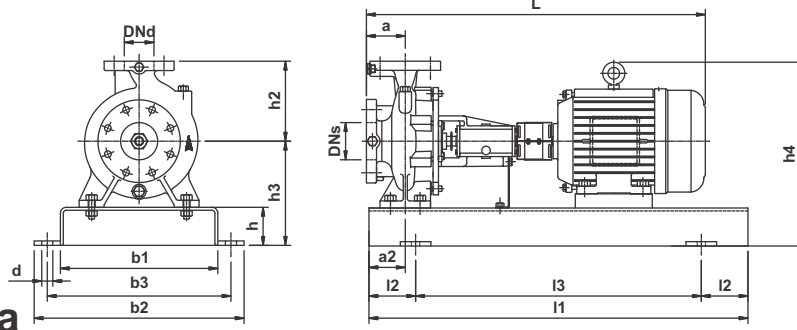
Performance curves

TBS 40-125 4-pole

Single-stage bare shaft end-suction pumps



4 POLE



Technical data

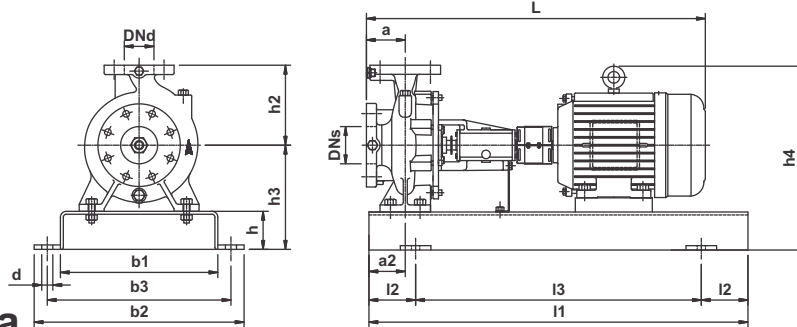
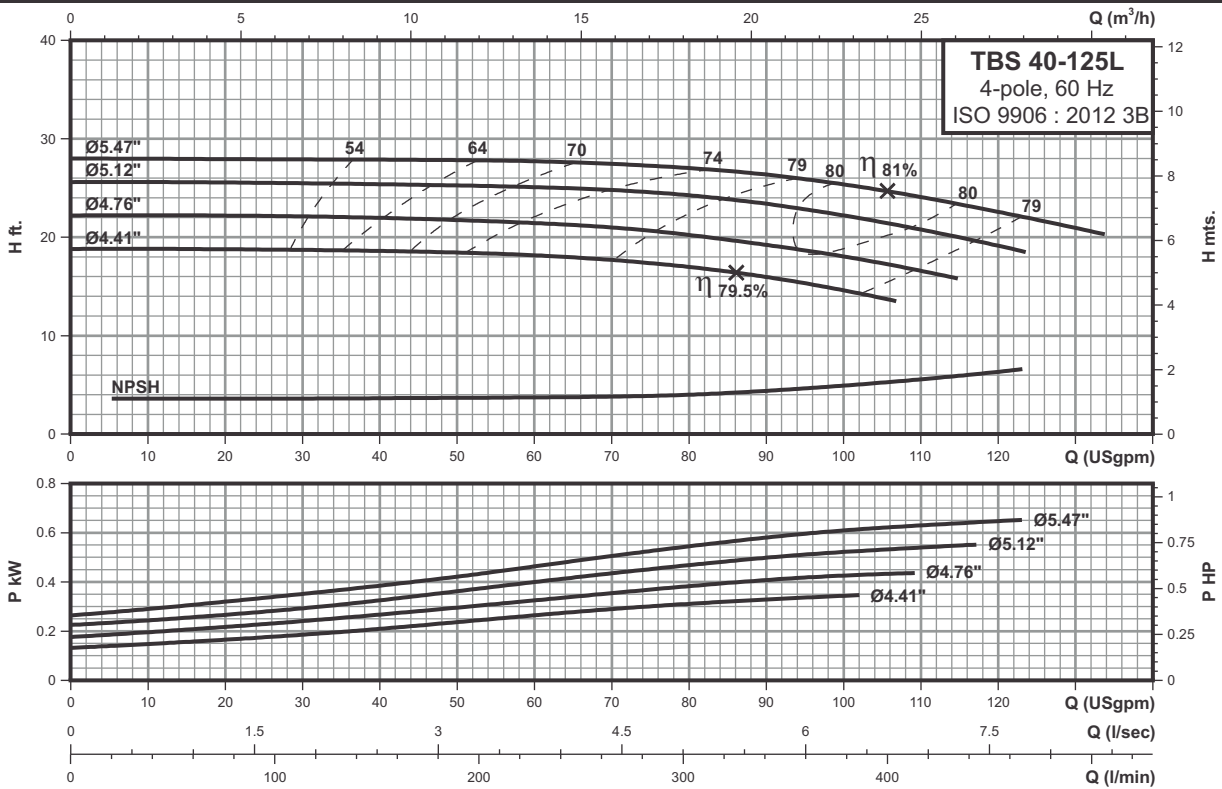
Power	(hp)	1
	(kw)	0.75
Frame		143T
ANSI flange		125
DNs	inch(mm)	2.50(65)
DNd	inch(mm)	1.50(40)
a	inch(mm)	3.15(80)
h2	inch(mm)	5.51(140)
L	inch(mm)	31.30(795)
l1	inch(mm)	31.50(800)
l2	inch(mm)	5.12(130)
l3	inch(mm)	21.26(540)
b1	inch(mm)	10.63(270)
b2	inch(mm)	14.17(360)
b3	inch(mm)	12.60(320)
d	inch(mm)	0.75(19)
a2	inch(mm)	2.56(60)
h	inch(mm)	2.36(60)
h3	inch(mm)	6.97(177)
h4	inch(mm)	12.20(310)
Base frame no.		2
Net Weight	lbs(kg)	142(65)
Gross Weight	lbs(kg)	261(119)
Volume	ft³(m³)	12.92(0.366)

Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

Performance curves

TBS 40-125L 4-pole

Single-stage bare shaft end-suction pumps



Technical data

Power	(hp)	1
	(kw)	0.75
Frame		143T
ANSI flange		125
DNs	inch(mm)	2.50(65)
DNd	inch(mm)	1.50(40)
a	inch(mm)	3.15(80)
h2	inch(mm)	5.51(140)
L	inch(mm)	31.30(795)
l1	inch(mm)	31.50(800)
l2	inch(mm)	5.12(130)
l3	inch(mm)	21.26(540)
b1	inch(mm)	10.63(270)
b2	inch(mm)	14.17(360)
b3	inch(mm)	12.60(320)
d	inch(mm)	0.75(19)
a2	inch(mm)	2.56(60)
h	inch(mm)	2.36(60)
h3	inch(mm)	6.97(177)
h4	inch(mm)	12.20(310)
Base frame no.		2
Net Weight	lbs(kg)	142(65)
Gross Weight	lbs(kg)	261(119)
Volume	ft³(m³)	12.92(0.366)

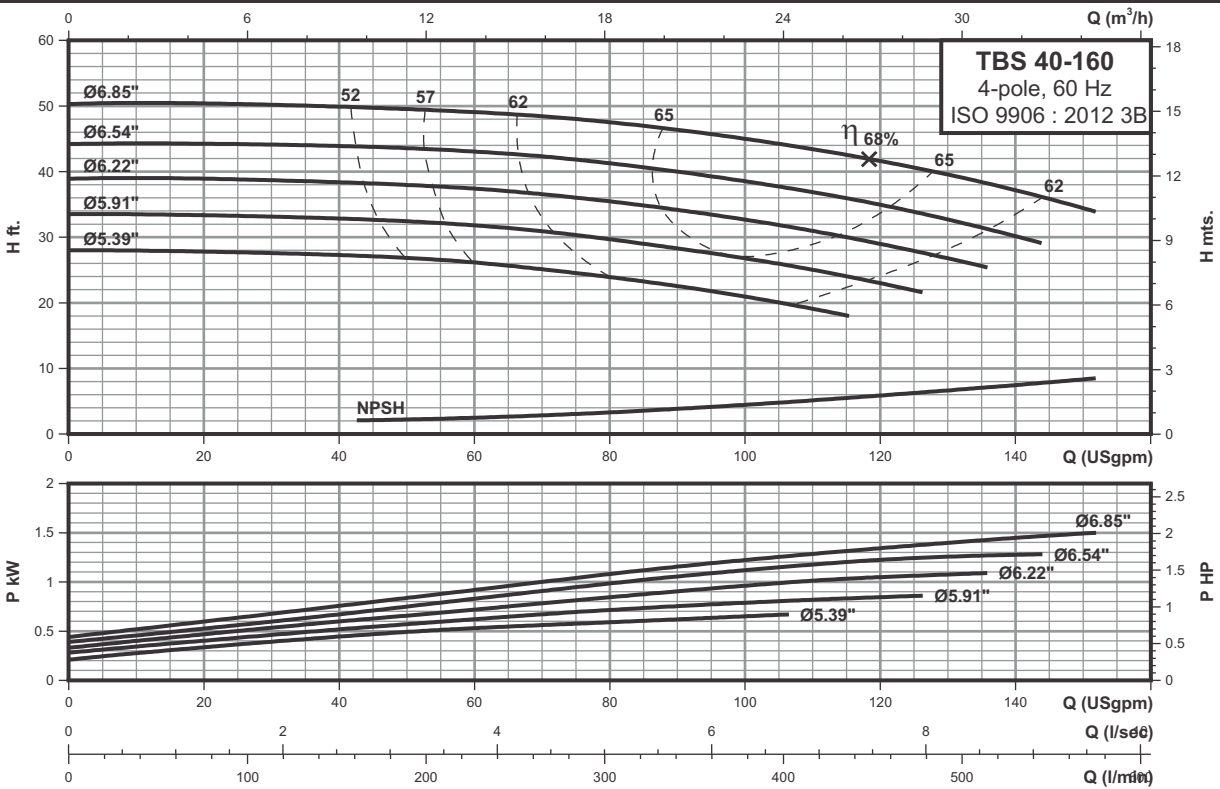
Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

4 POLE

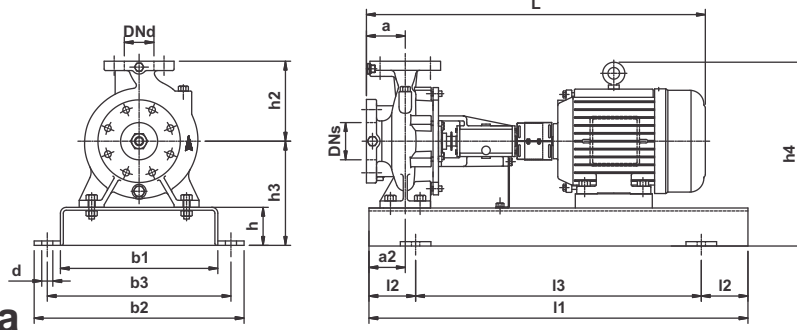
Performance curves

TBS 40-160 4-pole

Single-stage bare shaft end-suction pumps



4 POLE



Technical data

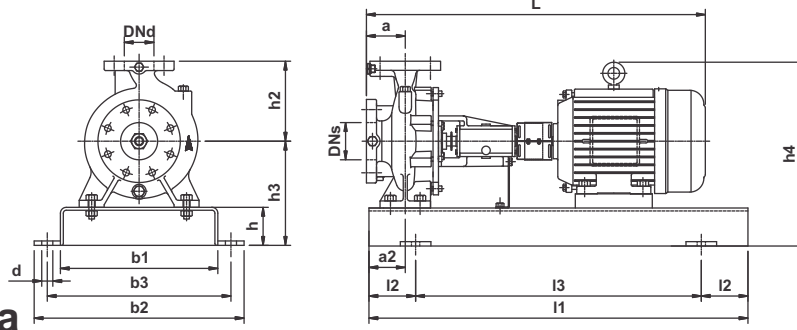
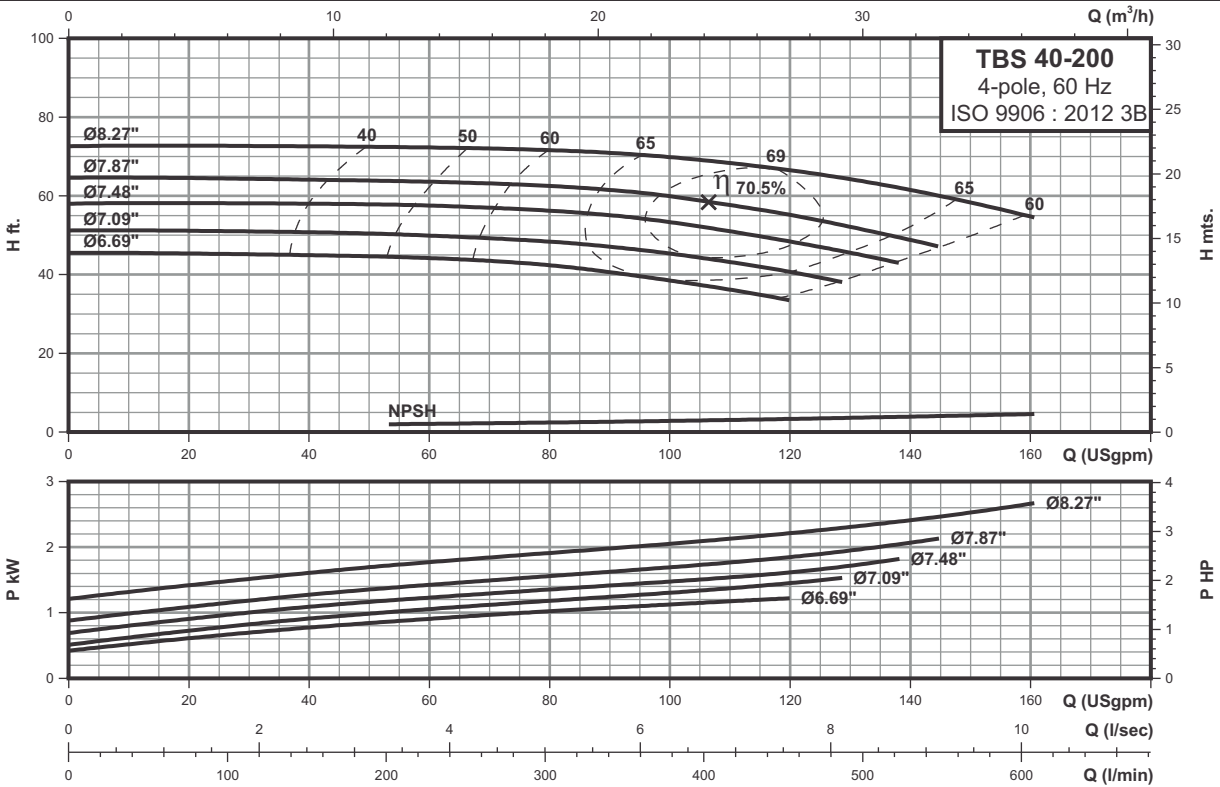
		1	1.5	2
Power	(hp)	1	1.5	2
	(kw)	0.75	1.1	1.5
Frame		143T	145T	145T
ANSI flange		125	125	125
DNs	inch(mm)	2.50(65)	2.50(65)	2.50(65)
DNd	inch(mm)	1.50(40)	1.50(40)	1.50(40)
a	inch(mm)	3.15(80)	3.15(80)	3.15(80)
h2	inch(mm)	6.30(160)	6.30(160)	6.30(160)
L	inch(mm)	31.30(795)	31.30(795)	31.30(795)
l1	inch(mm)	31.50(800)	35.43(900)	35.43(900)
l2	inch(mm)	5.12(130)	5.91(150)	5.91(150)
l3	inch(mm)	21.26(540)	23.62(600)	23.62(600)
b1	inch(mm)	10.63(270)	11.81(300)	11.81(300)
b2	inch(mm)	14.17(360)	15.35(390)	15.35(390)
b3	inch(mm)	12.60(320)	13.78(350)	13.78(350)
d	inch(mm)	0.75(19)	0.75(19)	0.75(19)
a2	inch(mm)	2.36(60)	2.36(60)	2.36(60)
h	inch(mm)	2.56(65)	2.56(65)	2.56(65)
h3	inch(mm)	7.76(197)	7.76(197)	7.76(197)
h4	inch(mm)	12.99(330)	12.99(330)	12.99(330)
Base frame no.		2	3	3
Net Weight	lbs(kg)	149(68)	156(71)	161(73)
Gross Weight	lbs(kg)	268(122)	275(125)	280(127)
Volume	ft³(m³)	12.92(0.366)	12.92(0.366)	12.92(0.366)

Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

Performance curves

Single-stage bare shaft end-suction pumps

TBS 40-200 4-pole



Technical data

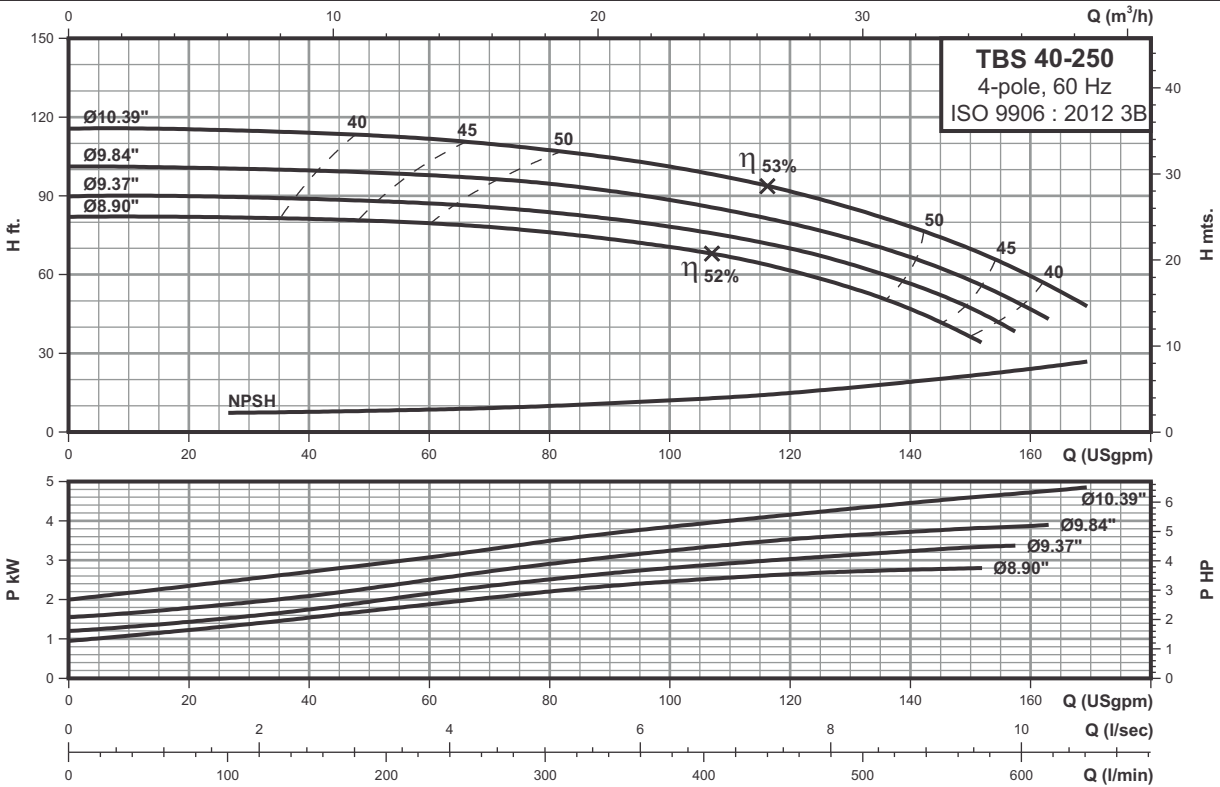
Power	(hp)	1.5	2	3	4
	(kw)	1.1	1.5	2.2	3
Frame		145T	145T	182T	184T
ANSI flange		125	125	125	125
DNs	inch(mm)	2.50(65)	2.50(65)	2.50(65)	2.50(65)
DNd	inch(mm)	1.50(40)	1.50(40)	1.50(40)	1.50(40)
a	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
h2	inch(mm)	7.09(180)	7.09(180)	7.09(180)	7.09(180)
L	inch(mm)	32.05(814)	32.05(814)	34.69(881)	34.88(886)
l1	inch(mm)	35.43(900)	35.43(900)	35.43(900)	35.43(900)
l2	inch(mm)	5.91(150)	5.91(150)	5.91(150)	5.91(150)
l3	inch(mm)	23.62(600)	23.62(600)	23.62(600)	23.62(600)
b1	inch(mm)	11.81(300)	11.81(300)	11.81(300)	11.81(300)
b2	inch(mm)	15.35(390)	15.35(390)	15.35(390)	15.35(390)
b3	inch(mm)	13.78(350)	13.78(350)	13.78(350)	13.78(350)
d	inch(mm)	0.75(19)	0.75(19)	0.75(19)	0.75(19)
a2	inch(mm)	2.36(60)	2.36(60)	2.36(60)	2.36(60)
h	inch(mm)	2.56(65)	2.56(65)	2.56(65)	2.56(65)
h3	inch(mm)	8.86(225)	8.86(225)	8.86(225)	8.86(225)
h4	inch(mm)	14.09(358)	14.09(358)	15.00(381)	15.00(381)
Base frame no.		3	3	3	3
Net Weight	lbs(kg)	167(76)	172(78)	200(91)	205(93)
Gross Weight	lbs(kg)	286(130)	291(132)	319(145)	324(147)
Volume	ft³(m³)	12.92(0.366)	12.92(0.366)	12.92(0.366)	12.92(0.366)

Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

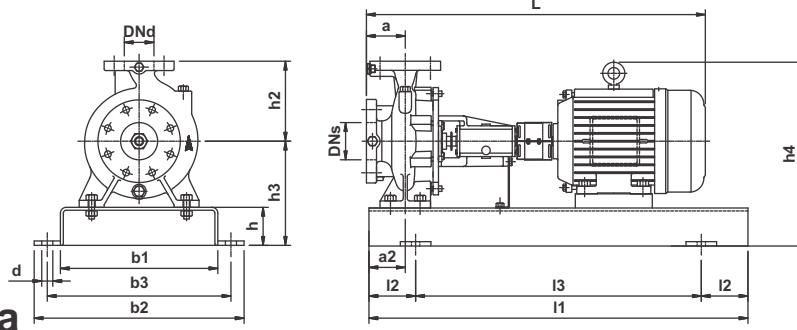
Performance curves

TBS 40-250 4-pole

Single-stage bare shaft end-suction pumps



4 POLE



Technical data

Power	(hp)	4	5	7.5
	(kw)	3	3.7	5.5
Frame		184T	184T	213T
ANSI flange		125	125	125
DNs	inch(mm)	2.50(65)	2.50(65)	2.50(65)
DNd	inch(mm)	4.50(40)	4.50(40)	4.50(40)
a	inch(mm)	3.94(100)	3.94(100)	3.94(100)
h2	inch(mm)	8.86(225)	8.86(225)	8.86(225)
L	inch(mm)	34.88(886)	34.88(886)	38.78(985)
l1	inch(mm)	39.37(1000)	39.37(1000)	44.09(1120)
l2	inch(mm)	6.69(170)	6.69(170)	7.48(190)
l3	inch(mm)	25.98(660)	25.98(660)	29.13(740)
b1	inch(mm)	13.39(340)	13.39(340)	14.96(380)
b2	inch(mm)	17.72(450)	17.72(450)	19.29(490)
b3	inch(mm)	15.75(400)	15.75(400)	17.32(440)
d	inch(mm)	0.94(24)	0.94(24)	0.94(24)
a2	inch(mm)	2.95(75)	2.95(75)	2.95(75)
h	inch(mm)	3.15(80)	3.15(80)	3.15(80)
h3	inch(mm)	10.24(260)	10.24(260)	10.24(260)
h4	inch(mm)	16.38(416)	16.38(416)	17.56(446)
Base frame no.		4	4	5
Net Weight	lbs(kg)	251(114)	256(116)	331(151)
Gross Weight	lbs(kg)	420(191)	425(193)	500(228)
Volume	ft³(m³)	22.70(0.643)	22.70(0.643)	22.70(0.643)

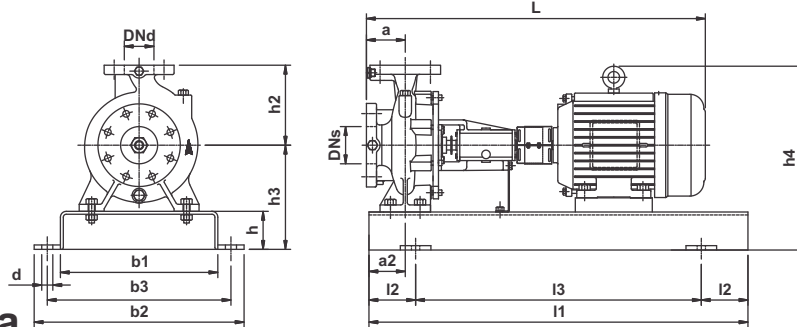
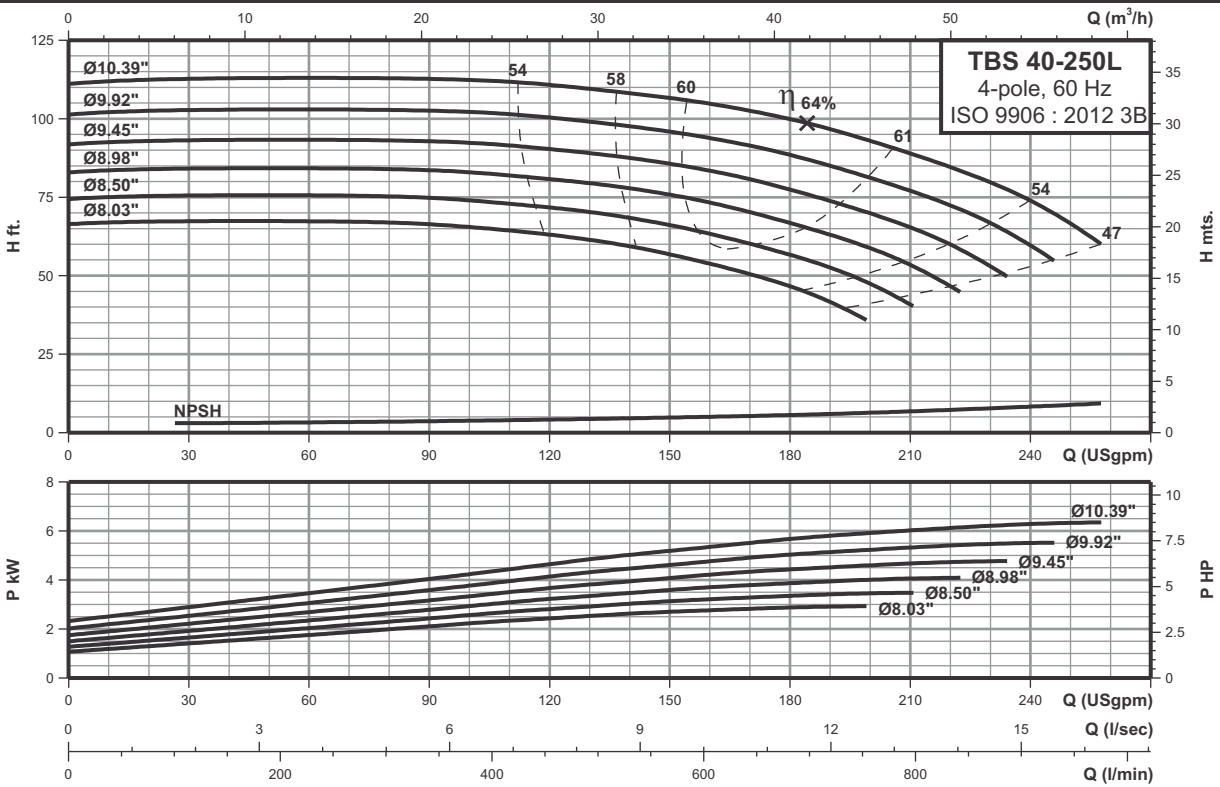
Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

Performance curves

TBS 40-250L

Single-stage bare shaft end-suction pumps

4-pole



Technical data

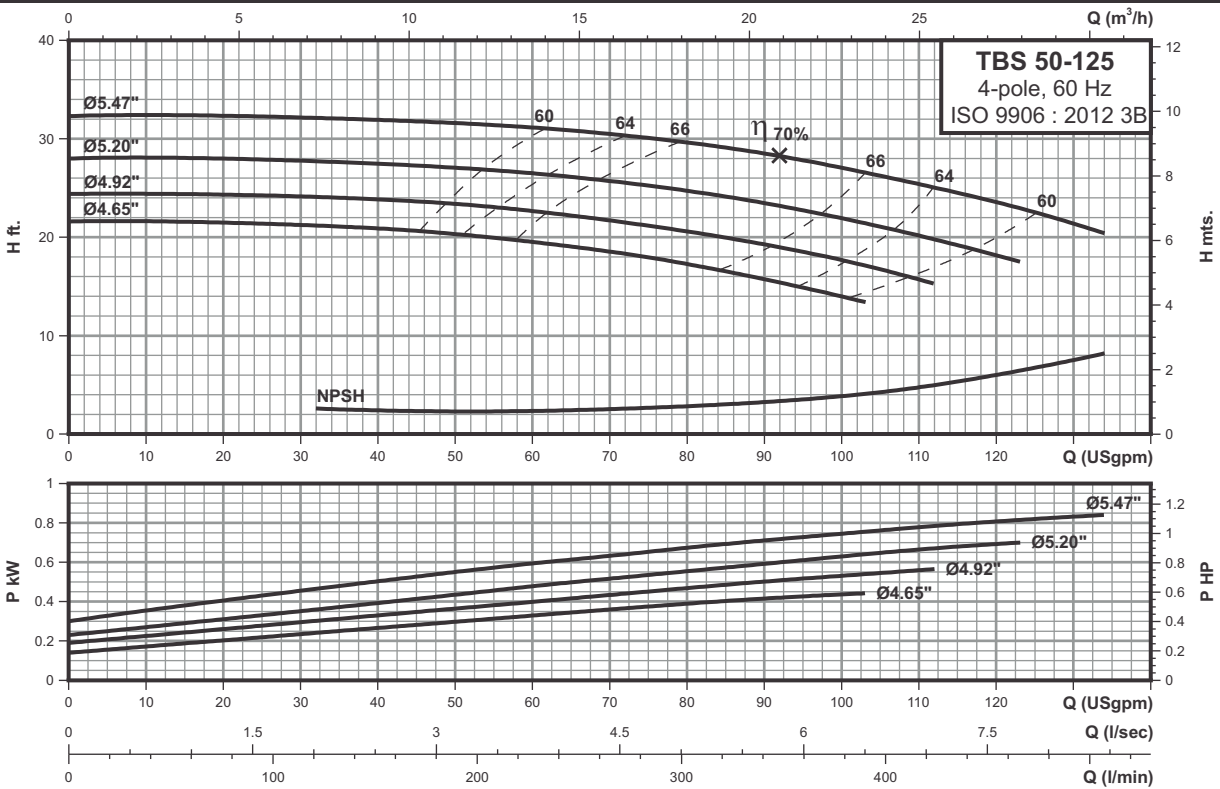
Power	(hp)	4	5	7.5	10
	(kw)	3	3.7	5.5	7.5
Frame		184T	184T	213T	215T
ANSI flange		125	125	125	125
DNs	inch(mm)	2.50(65)	2.50(65)	2.50(65)	2.5(65)
DNd	inch(mm)	4.50(40)	4.50(40)	4.50(40)	1.5(40)
a	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
h2	inch(mm)	8.86(225)	8.86(225)	8.86(225)	8.86(225)
L	inch(mm)	34.88(886)	34.88(886)	38.78(985)	38.07(967)
l1	inch(mm)	39.37(1000)	39.37(1000)	44.09(1120)	44.09(1120)
l2	inch(mm)	6.69(170)	6.69(170)	7.48(190)	7.48(190)
l3	inch(mm)	25.98(660)	25.98(660)	29.13(740)	29.13(740)
b1	inch(mm)	13.39(340)	13.39(340)	14.96(380)	14.96(380)
b2	inch(mm)	17.72(450)	17.72(450)	19.29(490)	19.29(490)
b3	inch(mm)	15.75(400)	15.75(400)	17.32(440)	17.32(440)
d	inch(mm)	0.94(24)	0.94(24)	0.94(24)	0.94(24)
a2	inch(mm)	2.95(75)	2.95(75)	2.95(75)	2.95(75)
h	inch(mm)	3.15(80)	3.15(80)	3.15(80)	3.15(80)
h3	inch(mm)	10.24(260)	10.24(260)	10.24(260)	10.24(260)
h4	inch(mm)	16.38(416)	16.38(416)	17.56(446)	17.56(446)
Base frame no.		4	4	5	5
Net Weight	lbs(kg)	251(114)	256(116)	331(151)	356(162)
Gross Weight	lbs(kg)	420(191)	425(193)	500(228)	515(234)
Volume	ft³(m³)	22.70(0.643)	22.70(0.643)	22.70(0.643)	21.06(0.596)

Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

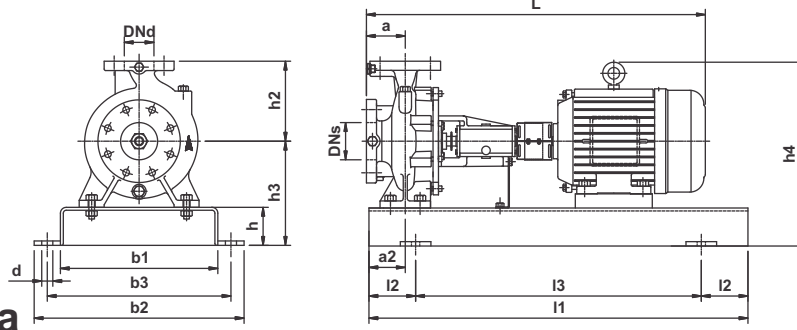
Performance curves

TBS 50-125 4-pole

Single-stage bare shaft end-suction pumps



4 POLE



Technical data

Power	(hp)	1	1.5
	(kw)	0.75	1.1
Frame		143T	145T
ANSI flange		125	125
DNs	inch(mm)	2.50(65)	2.50(65)
DNd	inch(mm)	2.00(50)	2.00(50)
a	inch(mm)	3.94(100)	3.94(100)
h2	inch(mm)	6.30(160)	6.30(160)
L	inch(mm)	32.05(814)	32.05(814)
l1	inch(mm)	31.50(800)	35.43(900)
l2	inch(mm)	5.12(130)	5.91(150)
l3	inch(mm)	21.26(540)	23.62(600)
b1	inch(mm)	10.63(270)	11.81(300)
b2	inch(mm)	14.17(360)	15.35(390)
b3	inch(mm)	12.60(320)	13.78(350)
d	inch(mm)	0.75(19)	0.75(19)
a2	inch(mm)	2.36(60)	2.36(60)
h	inch(mm)	2.56(65)	2.56(65)
h3	inch(mm)	7.76(197)	7.76(197)
h4	inch(mm)	12.99(330)	12.99(330)
Base frame no.		2	3
Net Weight	lbs(kg)	146(67)	154(70)
Gross Weight	lbs(kg)	265(121)	273(124)
Volume	ft³(m³)	12.92(0.366)	12.92(0.366)

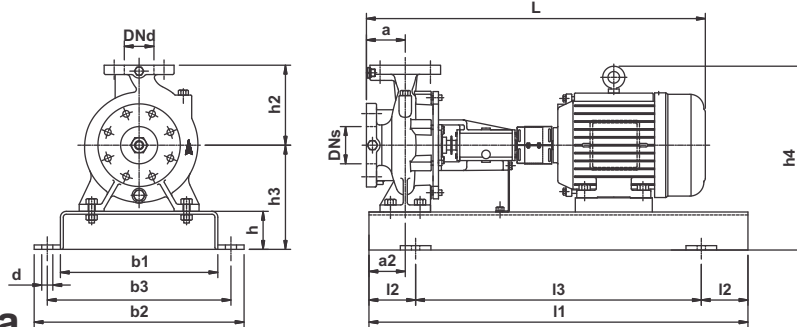
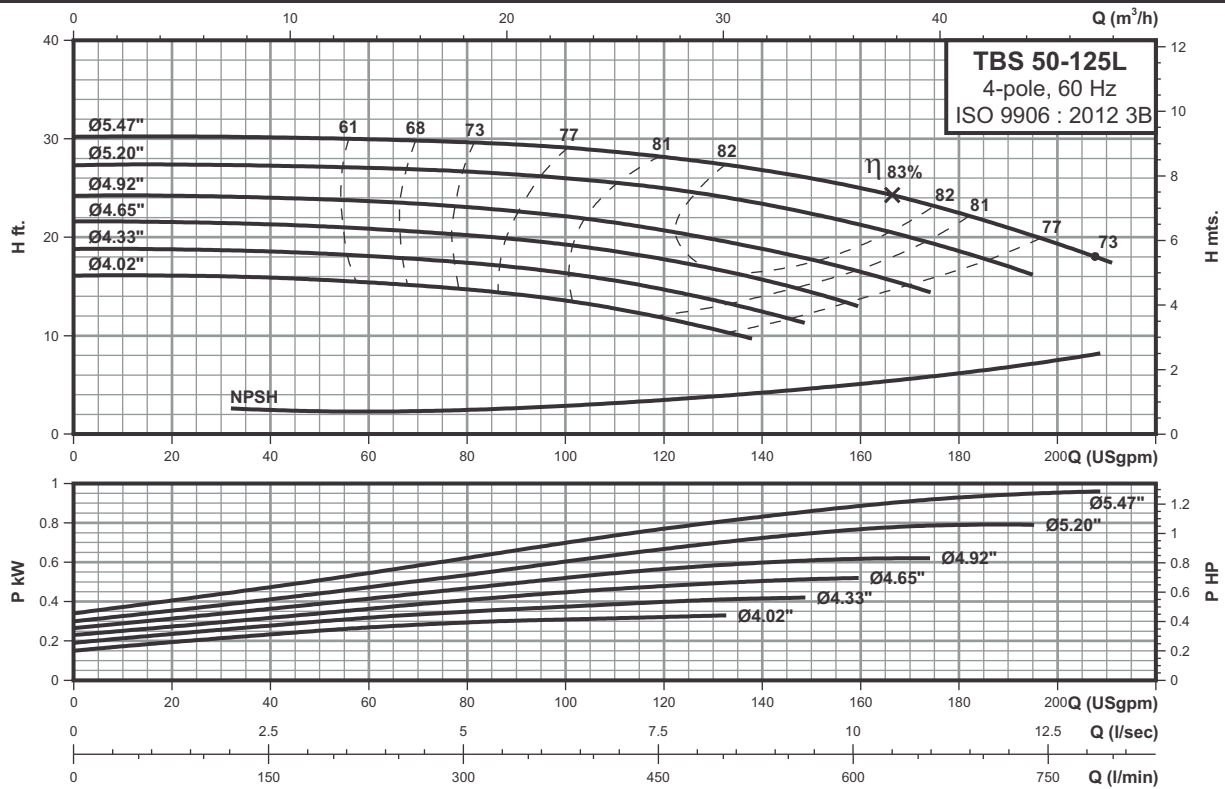
Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

Performance curves

TBS 50-125L

Single-stage bare shaft end-suction pumps

4-pole



Technical data

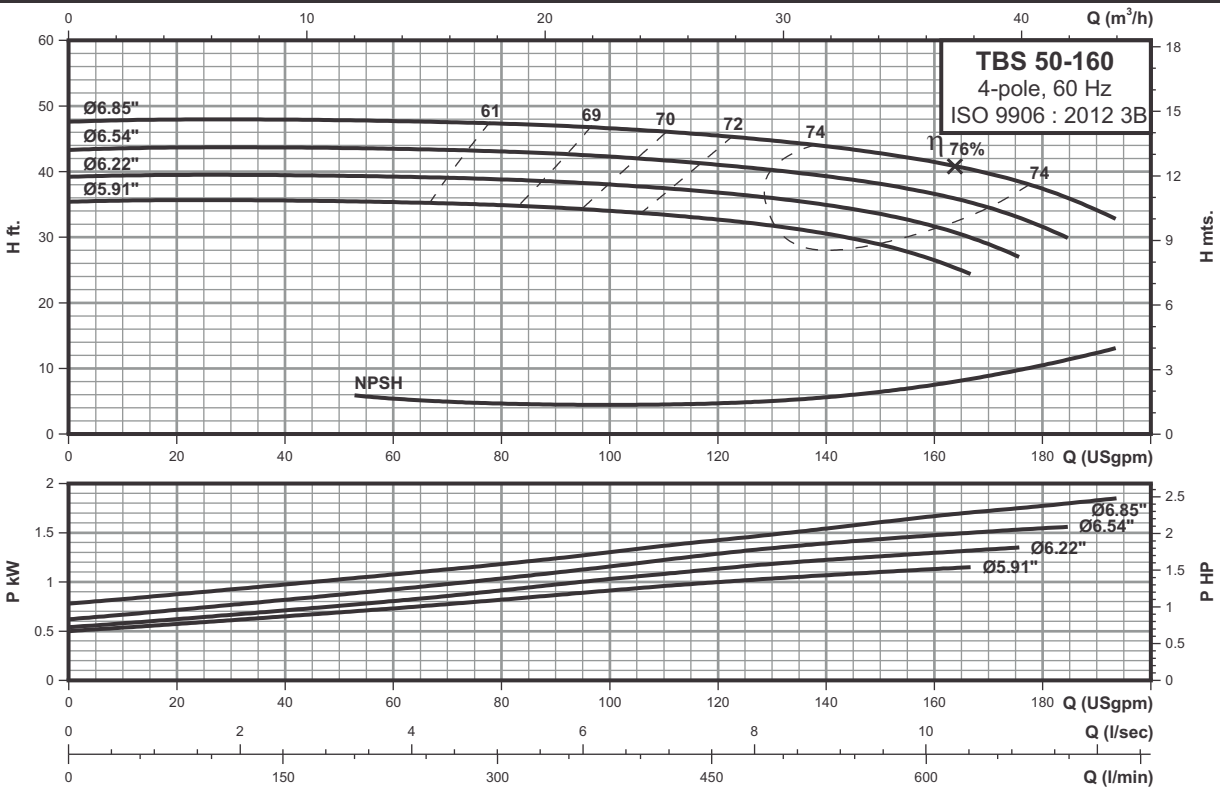
Power	(hp)	1	1.5
	(kw)	0.75	1.1
Frame		143T	145T
ANSI flange		125	125
DNs	inch(mm)	2.50(65)	2.50(65)
DNd	inch(mm)	2.00(50)	2.00(50)
a	inch(mm)	3.94(100)	3.94(100)
h2	inch(mm)	6.30(160)	6.30(160)
L	inch(mm)	32.05(814)	32.05(814)
l1	inch(mm)	31.50(800)	35.43(900)
l2	inch(mm)	5.12(130)	5.91(150)
l3	inch(mm)	21.26(540)	23.62(600)
b1	inch(mm)	10.63(270)	11.81(300)
b2	inch(mm)	14.17(360)	15.35(390)
b3	inch(mm)	12.60(320)	13.78(350)
d	inch(mm)	0.75(19)	0.75(19)
a2	inch(mm)	2.36(60)	2.36(60)
h	inch(mm)	2.56(65)	2.56(65)
h3	inch(mm)	7.76(197)	7.76(197)
h4	inch(mm)	12.99(330)	12.99(330)
Base frame no.		2	3
Net Weight	lbs(kg)	146(67)	154(70)
Gross Weight	lbs(kg)	265(121)	273(124)
Volume	ft³(m³)	12.92(0.366)	12.92(0.366)

Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

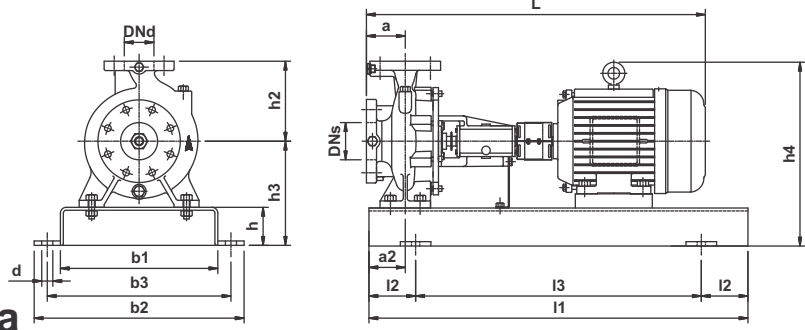
Performance curves

TBS 50-160 4-pole

Single-stage bare shaft end-suction pumps



4 POLE



Technical data

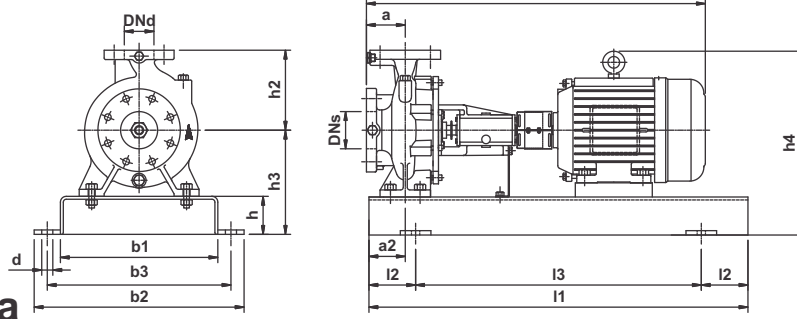
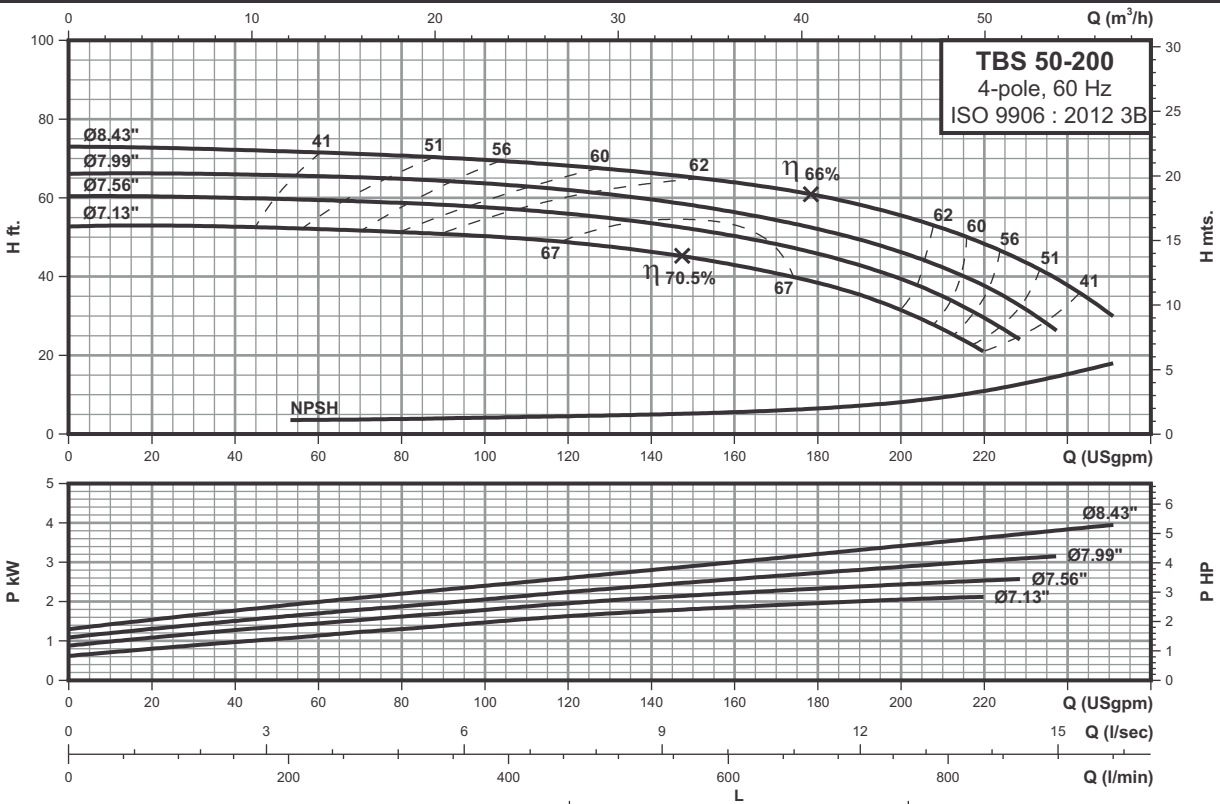
Power	(hp)	1.5	2	3
	(kw)	1.1	1.5	2.2
Frame		145T	145T	182T
ANSI flange		125	125	125
DNs	inch(mm)	2.50(65)	2.50(65)	2.50(65)
DNd	inch(mm)	2.00(50)	2.00(50)	2.00(50)
a	inch(mm)	3.94(100)	3.94(100)	3.94(100)
h2	inch(mm)	7.09(180)	7.09(180)	7.09(180)
L	inch(mm)	32.05(814)	32.05(814)	34.69(881)
l1	inch(mm)	35.43(900)	35.43(900)	35.43(900)
l2	inch(mm)	5.91(150)	5.91(150)	5.91(150)
l3	inch(mm)	23.62(600)	23.62(600)	23.62(600)
b1	inch(mm)	11.81(300)	11.81(300)	11.81(300)
b2	inch(mm)	15.35(390)	15.35(390)	15.35(390)
b3	inch(mm)	13.78(350)	13.78(350)	13.78(350)
d	inch(mm)	0.75(19)	0.75(19)	0.75(19)
a2	inch(mm)	2.36(60)	2.36(60)	2.36(60)
h	inch(mm)	2.56(65)	2.56(65)	2.56(65)
h3	inch(mm)	8.86(225)	8.86(225)	8.86(225)
h4	inch(mm)	14.09(358)	14.09(358)	15.00(381)
Base frame no.		3	3	3
Net Weight	lbs(kg)	165(75)	169(77)	198(90)
Gross Weight	lbs(kg)	284(129)	288(131)	317(144)
Volume	ft³(m³)	12.92(0.366)	12.92(0.366)	12.92(0.366)

Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

Performance curves

TBS 50-200 4-pole

Single-stage bare shaft end-suction pumps



Technical data

		3	4	5
Power	(hp)	3	4	5
	(kw)	2.2	3	3.7
Frame		182T	184T	184T
ANSI flange		125	125	125
DNs	inch(mm)	2.50(65)	2.50(65)	2.50(65)
DNd	inch(mm)	2.00(50)	2.00(50)	2.00(50)
a	inch(mm)	3.94(100)	3.94(100)	3.94(100)
h2	inch(mm)	7.87(200)	7.87(200)	7.87(200)
L	inch(mm)	34.69(881)	34.88(886)	34.88(886)
l1	inch(mm)	35.43(900)	35.43(900)	35.43(900)
l2	inch(mm)	5.91(150)	5.91(150)	5.91(150)
l3	inch(mm)	23.62(600)	23.62(600)	23.62(600)
b1	inch(mm)	11.81(300)	11.81(300)	11.81(300)
b2	inch(mm)	15.35(390)	15.35(390)	15.35(390)
b3	inch(mm)	13.78(350)	13.78(350)	13.78(350)
d	inch(mm)	0.75(19)	0.75(19)	0.75(19)
a2	inch(mm)	2.36(60)	2.36(60)	2.36(60)
h	inch(mm)	2.56(65)	2.56(65)	2.56(65)
h3	inch(mm)	8.86(225)	8.86(225)	8.86(225)
h4	inch(mm)	15.00(381)	15.00(381)	15.00(381)
Base frame no.		3	3	3
Net Weight	lbs(kg)	207(94)	212(96)	216(98)
Gross Weight	lbs(kg)	306(148)	331(150)	335(152)
Volume	ft³(m³)	12.92(0.366)	12.92(0.366)	12.92(0.366)

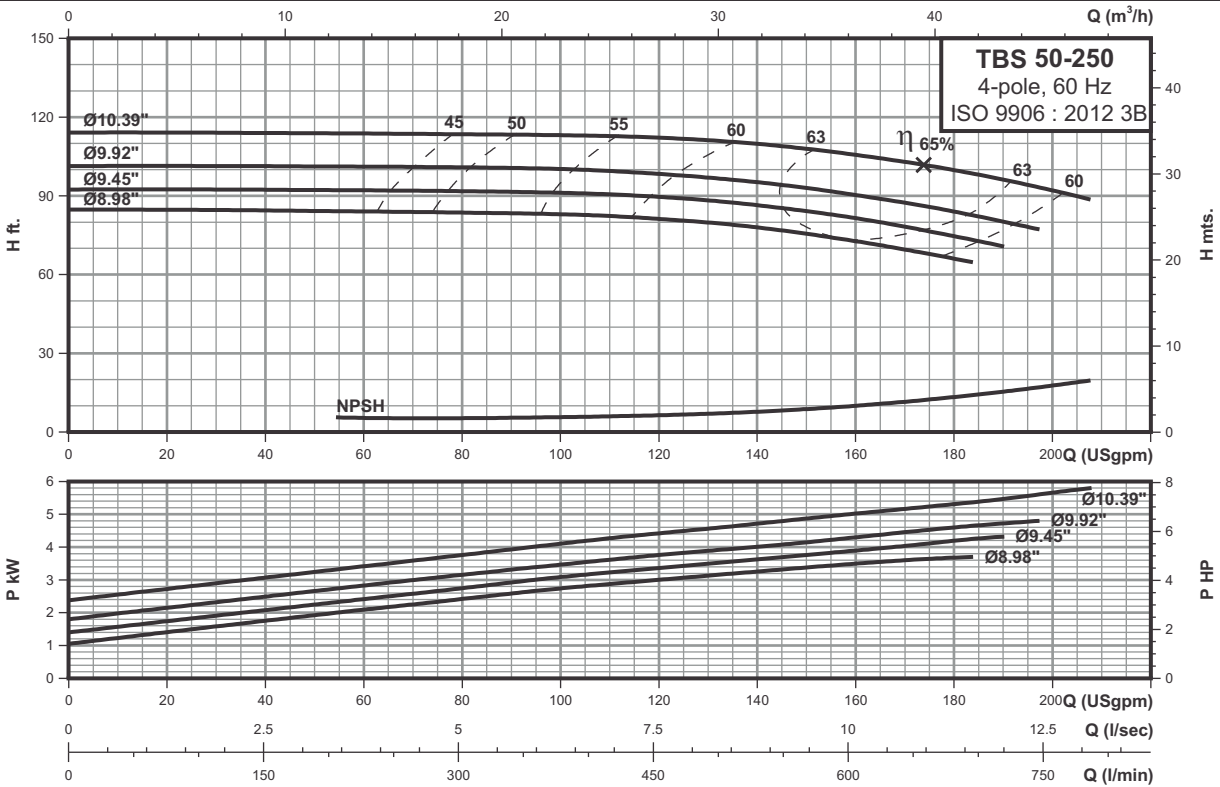
Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

4 POLE

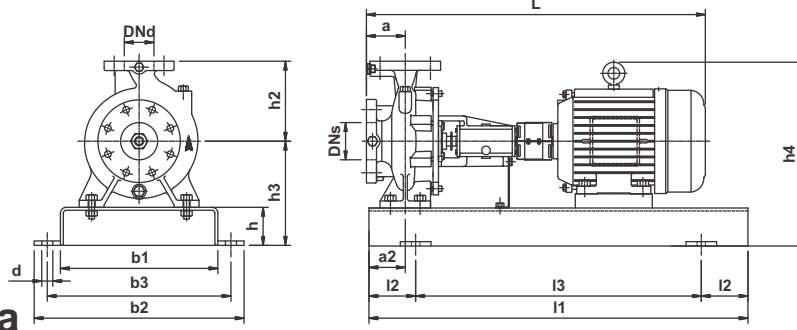
Performance curves

TBS 50-250 4-pole

Single-stage bare shaft end-suction pumps



4 POLE



Technical data

Power	(hp)	4	5	7.5
	(kw)	3	3.7	5.5
Frame		184T	184T	213T
ANSI flange		125	125	125
DNs	inch(mm)	2.50(65)	2.50(65)	2.50(65)
DNd	inch(mm)	2.00(50)	2.00(50)	2.00(50)
a	inch(mm)	3.94(100)	3.94(100)	3.94(100)
h2	inch(mm)	8.86(225)	8.86(225)	8.86(225)
L	inch(mm)	34.88(886)	34.88(886)	38.74(984)
l1	inch(mm)	39.37(1000)	39.37(1000)	44.09(1120)
l2	inch(mm)	6.69(170)	6.69(170)	7.48(190)
l3	inch(mm)	25.98(660)	25.98(660)	29.13(740)
b1	inch(mm)	13.39(340)	13.39(340)	14.96(380)
b2	inch(mm)	17.72(450)	17.72(450)	19.29(490)
b3	inch(mm)	15.75(400)	15.75(400)	17.32(440)
d	inch(mm)	0.94(24)	0.94(24)	0.94(24)
a2	inch(mm)	2.95(75)	2.95(75)	2.95(75)
h	inch(mm)	3.15(80)	3.15(80)	3.15(80)
h3	inch(mm)	10.24(260)	10.24(260)	10.24(260)
h4	inch(mm)	16.38(416)	16.38(416)	17.56(446)
Base frame no.		4	4	5
Net Weight	lbs(kg)	256(116)	260(118)	336(153)
Gross Weight	lbs(kg)	425(193)	429(195)	505(230)
Volume	ft³(m³)	22.70(0.643)	22.70(0.643)	22.70(0.643)

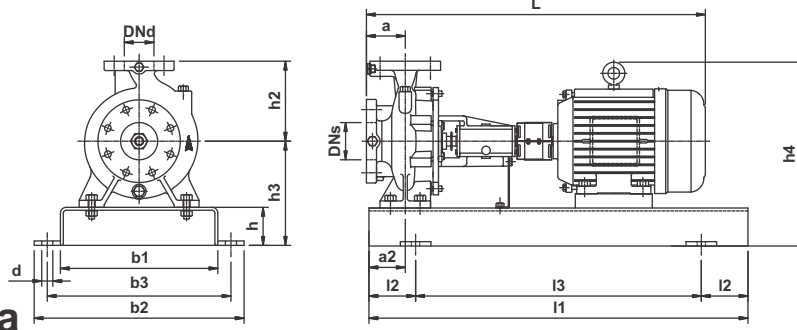
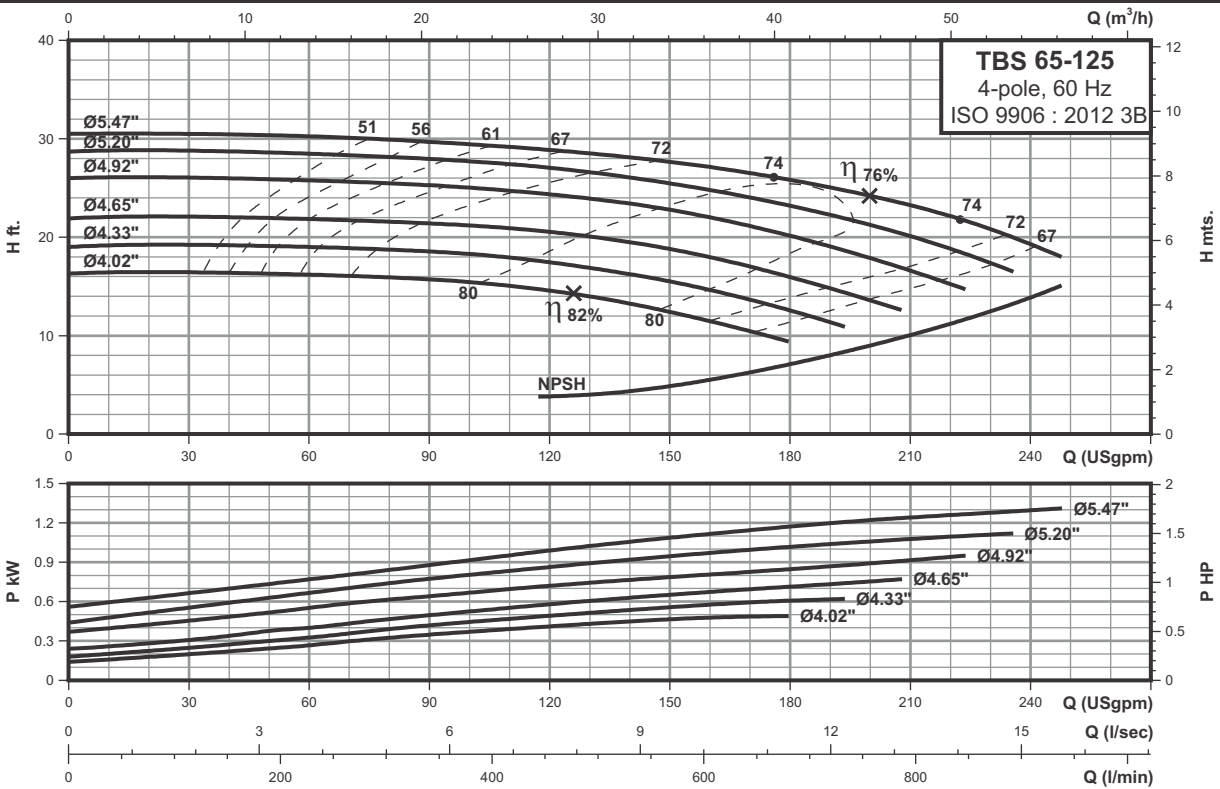
Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

Performance curves

TBS 65-125

Single-stage bare shaft end-suction pumps

4-pole



Technical data

Power	(hp)	1	1.5	2
	(kw)	0.75	1.1	1.5
Frame		143T	145T	145T
ANSI flange		125	125	125
DNs	inch(mm)	3.00(80)	3.00(80)	3.00(80)
DNd	inch(mm)	2.50(65)	2.50(65)	2.50(65)
a	inch(mm)	3.94(100)	3.94(100)	3.94(100)
h2	inch(mm)	7.09(180)	7.09(180)	7.09(180)
L	inch(mm)	32.05(814)	32.05(814)	32.05(814)
l1	inch(mm)	35.43(900)	35.43(900)	35.43(900)
l2	inch(mm)	5.91(150)	5.91(150)	5.91(150)
l3	inch(mm)	23.62(600)	23.62(600)	23.62(600)
b1	inch(mm)	11.81(300)	11.81(300)	11.81(300)
b2	inch(mm)	15.35(390)	15.35(390)	15.35(390)
b3	inch(mm)	13.78(350)	13.78(350)	13.78(350)
d	inch(mm)	0.75(19)	0.75(19)	0.75(19)
a2	inch(mm)	2.95(75)	2.95(75)	2.95(75)
h	inch(mm)	2.56(65)	2.56(65)	2.56(65)
h3	inch(mm)	8.86(225)	8.86(225)	8.86(225)
h4	inch(mm)	14.09(358)	14.09(358)	14.09(358)
Base frame no.		3	3	3
Net Weight	lbs(kg)	167(76)	169(77)	174(79)
Gross Weight	lbs(kg)	286(130)	288(131)	293(133)
Volume	ft³(m³)	12.92(0.366)	12.92(0.366)	12.92(0.366)

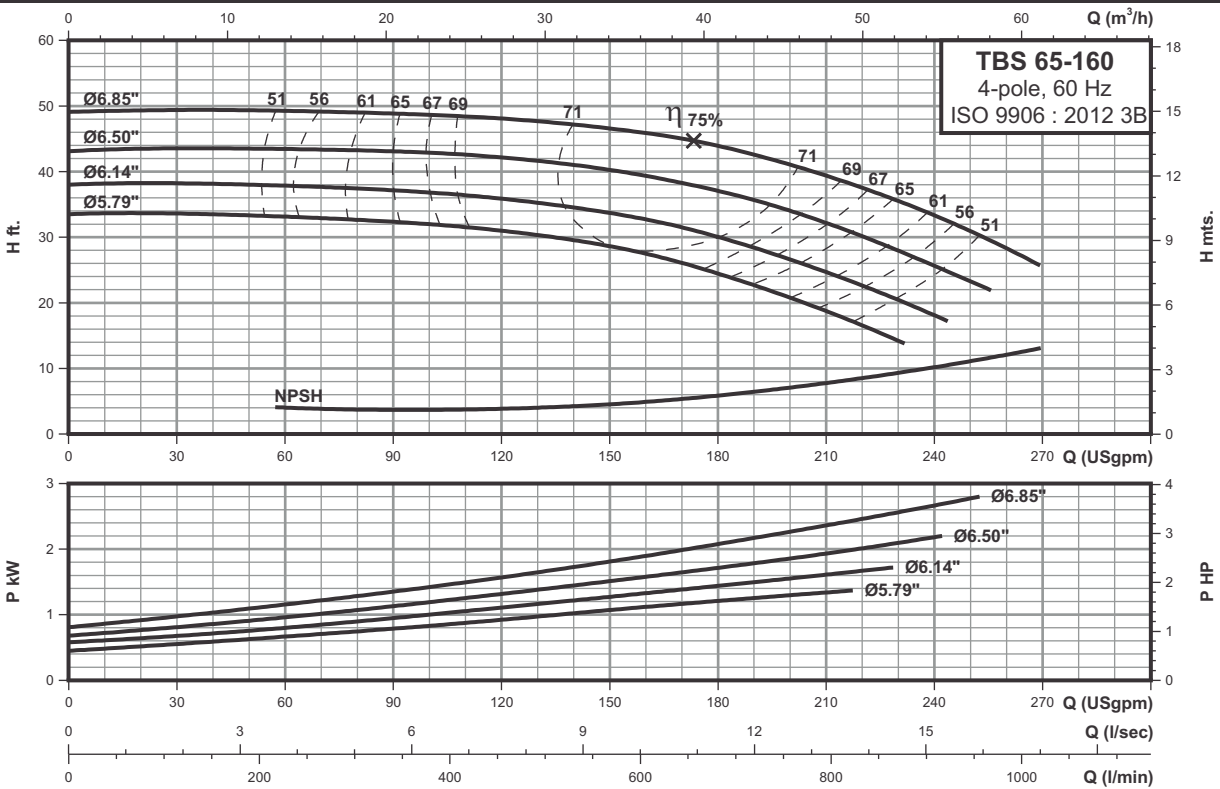
Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

Performance curves

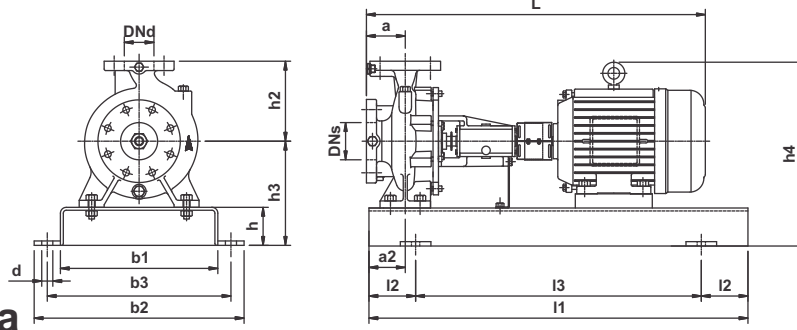
YBS 65-160

Single-stage bare shaft end-suction pumps

4-pole



4 POLE



Technical data

		2	3	4
Power	(hp)	2	3	4
	(kw)	1.5	2.2	3
Frame		145T	182T	184T
ANSI flange		125	125	125
DNs	inch(mm)	3.00(80)	3.00(80)	3.00(80)
DNd	inch(mm)	2.50(65)	2.50(65)	2.50(65)
a	inch(mm)	3.94(100)	3.94(100)	3.94(100)
h2	inch(mm)	7.87(200)	7.87(200)	7.87(200)
L	inch(mm)	32.05(814)	34.69(881)	34.88(886)
l1	inch(mm)	35.43(900)	35.43(900)	35.43(900)
l2	inch(mm)	5.91(150)	5.91(150)	5.91(150)
l3	inch(mm)	23.62(600)	23.62(600)	23.62(600)
b1	inch(mm)	11.81(300)	11.81(300)	11.81(300)
b2	inch(mm)	15.35(390)	15.35(390)	15.35(390)
b3	inch(mm)	13.78(350)	13.78(350)	13.78(350)
d	inch(mm)	0.75(19)	0.75(19)	0.75(19)
a2	inch(mm)	2.95(75)	2.95(75)	2.95(75)
h	inch(mm)	2.56(65)	2.56(65)	2.56(65)
h3	inch(mm)	8.86(225)	8.86(225)	8.86(225)
h4	inch(mm)	14.09(358)	15.00(381)	15.00(381)
Base frame no.		3	3	3
Net Weight	lbs(kg)	187(85)	216(98)	220(100)
Gross Weight	lbs(kg)	306(139)	335(152)	339(154)
Volume	ft³(m³)	12.92(0.366)	12.92(0.366)	12.92(0.366)

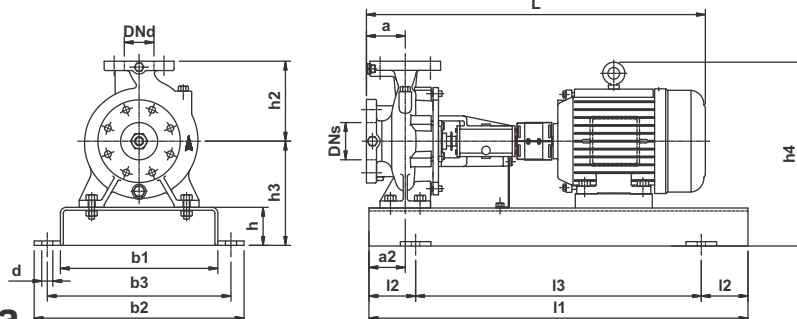
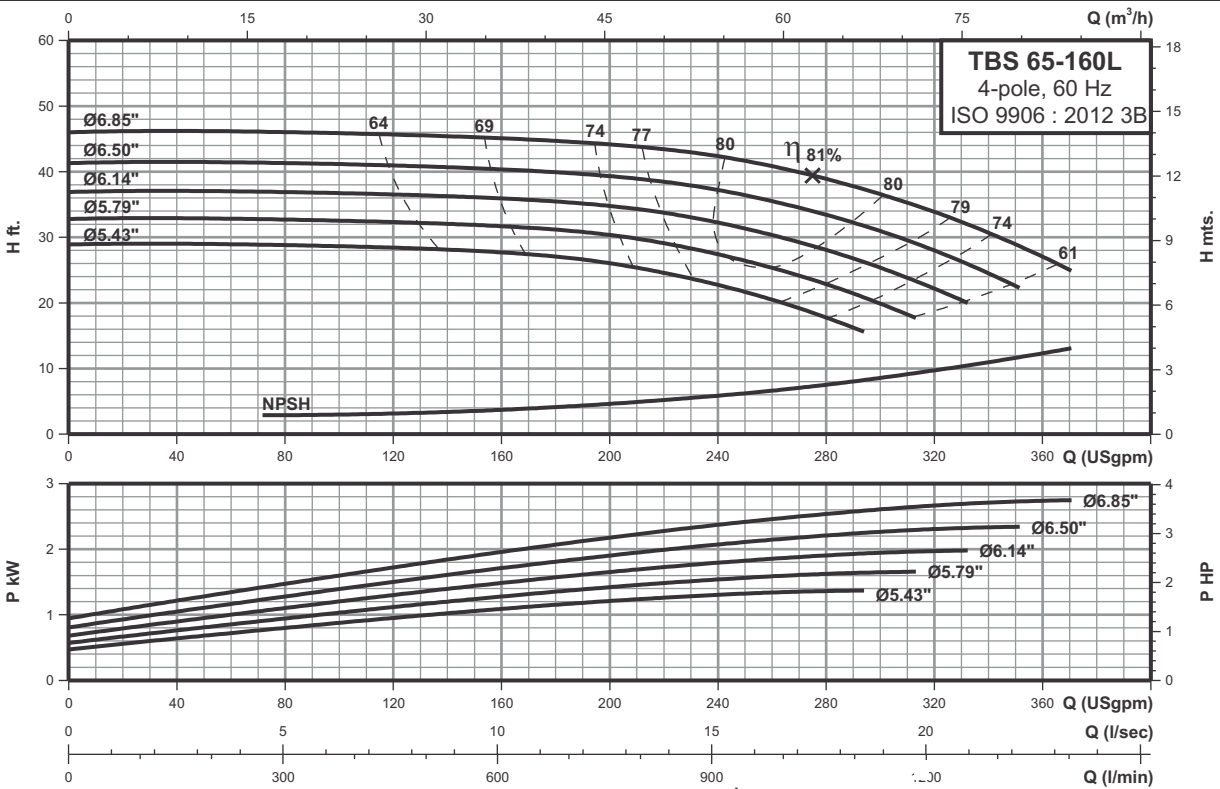
Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

Performance curves

TBS 65-160L

Single-stage bare shaft end-suction pumps

4-pole



Technical data

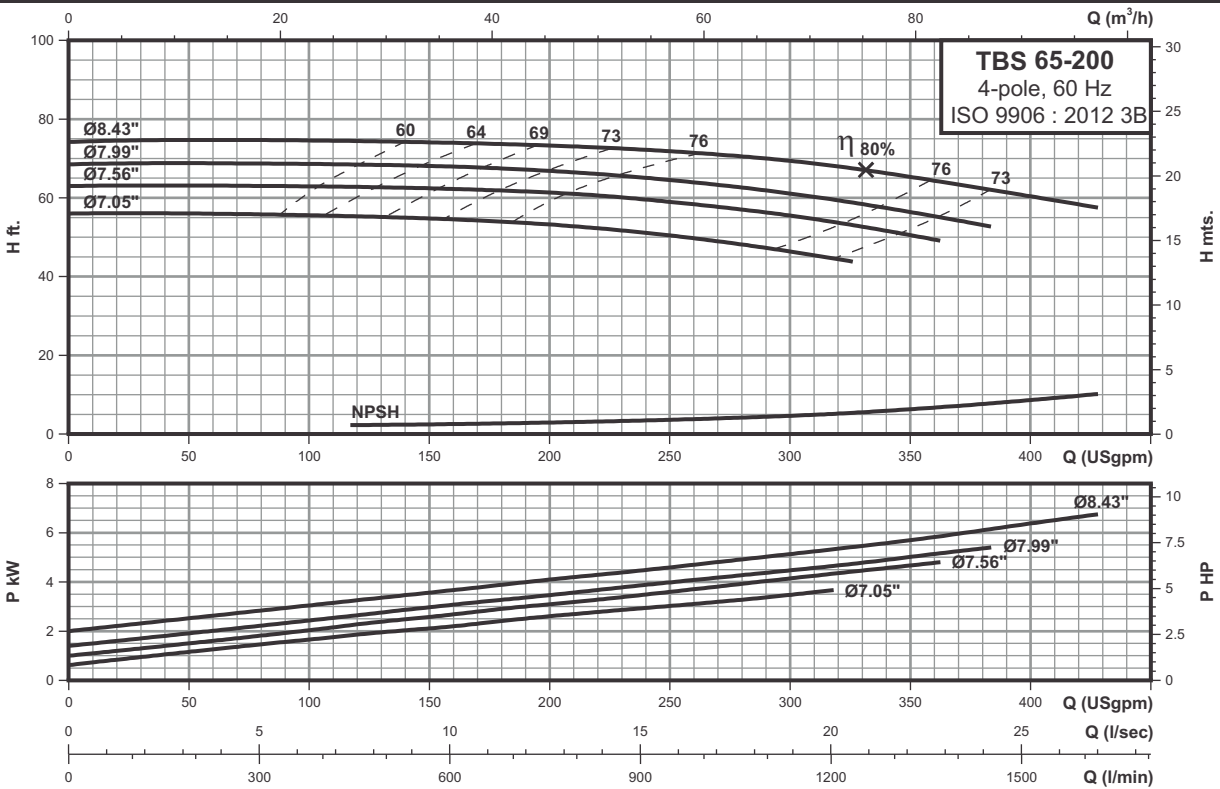
Power	(hp)	2	3	4
	(kw)	1.5	2.2	3
Frame		145T	182T	184T
ANSI flange		125	125	125
DNs	inch(mm)	3.00(80)	3.00(80)	3.00(80)
DNd	inch(mm)	2.50(65)	2.50(65)	2.50(65)
a	inch(mm)	3.94(100)	3.94(100)	3.94(100)
h2	inch(mm)	7.87(200)	7.87(200)	7.87(200)
L	inch(mm)	32.05(814)	34.69(881)	34.88(886)
l1	inch(mm)	35.43(900)	35.43(900)	35.43(900)
l2	inch(mm)	5.91(150)	5.91(150)	5.91(150)
l3	inch(mm)	23.62(600)	23.62(600)	23.62(600)
b1	inch(mm)	11.81(300)	11.81(300)	11.81(300)
b2	inch(mm)	15.35(390)	15.35(390)	15.35(390)
b3	inch(mm)	13.78(350)	13.78(350)	13.78(350)
d	inch(mm)	0.75(19)	0.75(19)	0.75(19)
a2	inch(mm)	2.95(75)	2.95(75)	2.95(75)
h	inch(mm)	2.56(65)	2.56(65)	2.56(65)
h3	inch(mm)	8.86(225)	8.86(225)	8.86(225)
h4	inch(mm)	14.09(358)	15.00(381)	15.00(381)
Base frame no.		3	3	3
Net Weight	lbs(kg)	187(85)	216(98)	220(100)
Gross Weight	lbs(kg)	306(139)	335(152)	339(154)
Volume	ft³(m³)	12.92(0.366)	12.92(0.366)	12.92(0.366)

Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

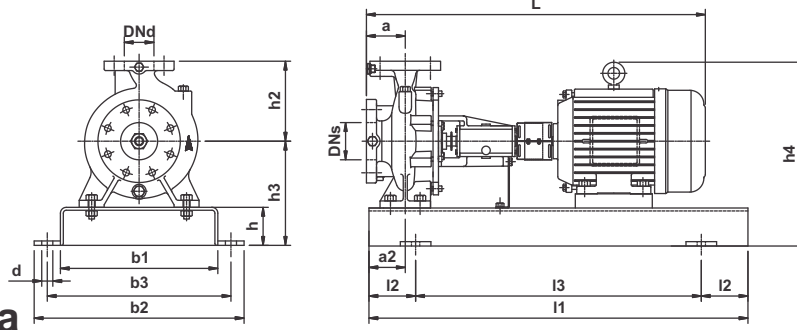
Performance curves

TBS 65-200 4-pole

Single-stage bare shaft end-suction pumps



4 POLE



Technical data

Power	(hp)	5	7.5	10
	(kw)	3.7	5.5	7.5
Frame		184T	213T	215T
ANSI flange		125	125	125
DNs	inch(mm)	3.00(80)	3.00(80)	3.00(80)
DNd	inch(mm)	2.50(65)	2.50(65)	2.50(65)
a	inch(mm)	3.94(100)	3.94(100)	3.94(100)
h2	inch(mm)	8.86(225)	8.86(225)	8.86(225)
L	inch(mm)	34.88(886)	38.78(985)	38.78(985)
l1	inch(mm)	44.09(1120)	44.09(1120)	44.09(1120)
l2	inch(mm)	7.48(190)	7.48(190)	7.48(190)
l3	inch(mm)	29.13(740)	29.13(740)	29.13(740)
b1	inch(mm)	14.96(380)	14.96(380)	14.96(380)
b2	inch(mm)	19.29(490)	19.29(490)	19.29(490)
b3	inch(mm)	17.32(440)	17.32(440)	17.32(440)
d	inch(mm)	0.94(24)	0.94(24)	0.94(24)
a2	inch(mm)	2.95(75)	2.95(75)	2.95(75)
h	inch(mm)	3.15(80)	3.15(80)	3.15(80)
h3	inch(mm)	10.24(260)	10.24(260)	10.24(260)
h4	inch(mm)	16.38(416)	17.56(446)	17.56(446)
Base frame no.		5	5	5
Net Weight	lbs(kg)	269(122)	333(152)	359(163)
Gross Weight	lbs(kg)	438(199)	502(229)	528(240)
Volume	ft³(m³)	22.70(0.643)	22.70(0.643)	22.70(0.643)

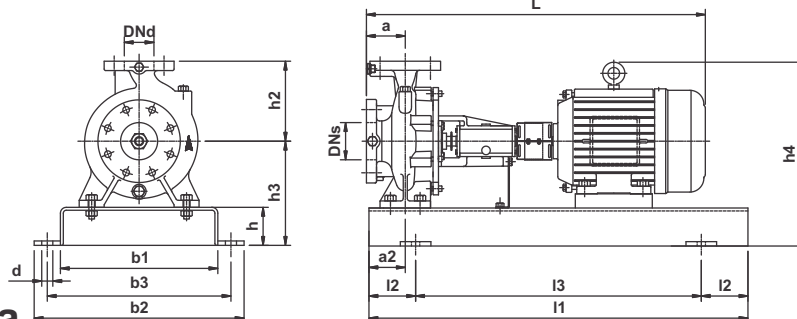
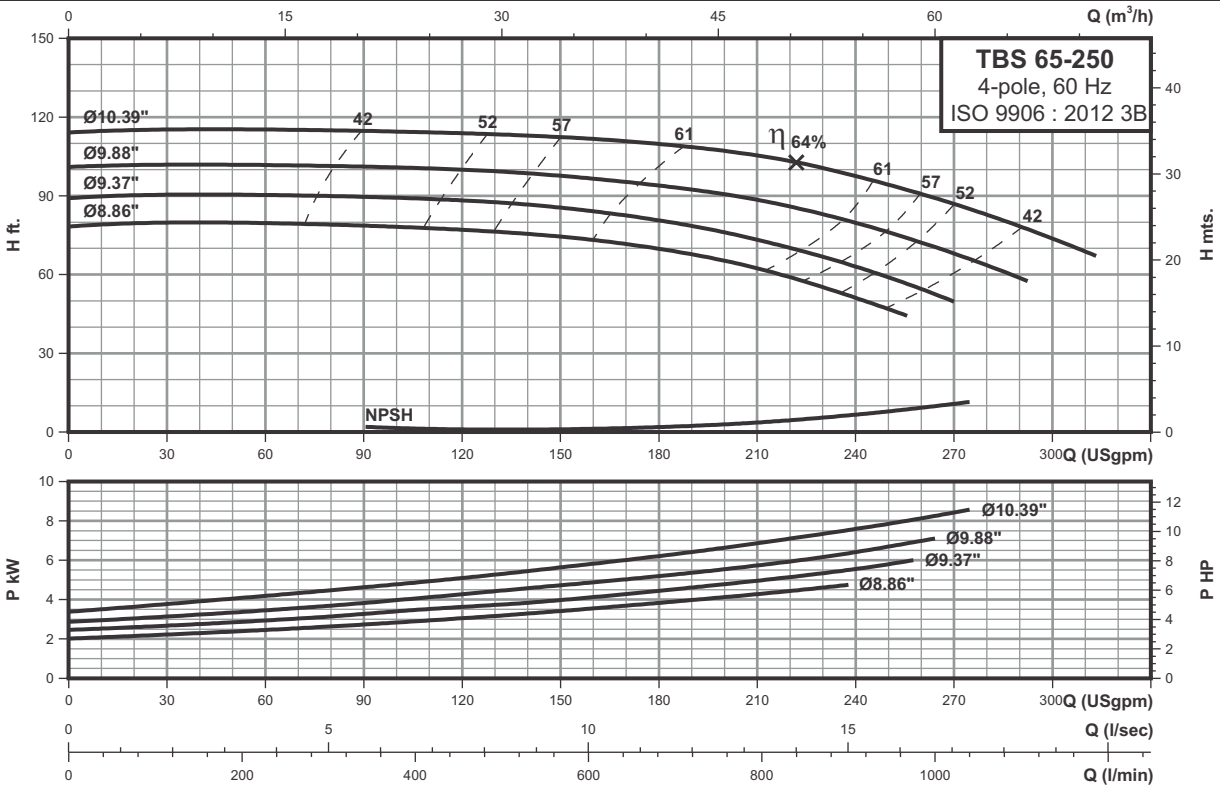
Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

Performance curves

TBS 65-250

Single-stage bare shaft end-suction pumps

4-pole



Technical data

Power	(hp)	5	7.5	10	15
	(kw)	3.7	5.5	7.5	11
Frame		184T	213T	215T	254T
ANSI flange		125	125	125	125
DNs	inch(mm)	3.00(80)	3.00(80)	3.00(80)	3.00(80)
DNd	inch(mm)	2.50(65)	2.50(65)	2.50(65)	2.50(65)
a	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
h2	inch(mm)	9.84(250)	9.84(250)	9.84(250)	9.84(250)
L	inch(mm)	39.21(996)	43.11(1095)	43.11(1095)	46.50(1181)
l1	inch(mm)	44.09(1120)	44.09(1120)	44.09(1120)	49.21(1250)
l2	inch(mm)	7.48(190)	7.48(190)	7.48(190)	8.07(205)
l3	inch(mm)	29.13(740)	29.13(740)	29.13(740)	33.07(840)
b1	inch(mm)	14.96(380)	14.96(380)	14.96(380)	16.93(430)
b2	inch(mm)	19.29(490)	19.29(490)	19.29(490)	21.26(540)
b3	inch(mm)	17.32(440)	17.32(440)	17.32(440)	19.29(490)
d	inch(mm)	0.94(24)	0.94(24)	0.94(24)	0.94(24)
a2	inch(mm)	3.54(90)	3.54(90)	3.54(90)	3.54(90)
h	inch(mm)	3.15(80)	3.15(80)	3.15(80)	3.15(80)
h3	inch(mm)	11.02(280)	11.02(280)	11.02(280)	10.87(276)
h4	inch(mm)	17.17(436)	18.35(466)	18.35(466)	19.76(502)
Base frame no.		5	5	5	6
Net Weight	lbs(kg)	322(146)	386(176)	411(187)	497(226)
Gross Weight	lbs(kg)	491(223)	555(253)	580(264)	735(334)
Volume	ft³(m³)	22.70(0.643)	22.70(0.643)	22.70(0.643)	38.10(1.079)

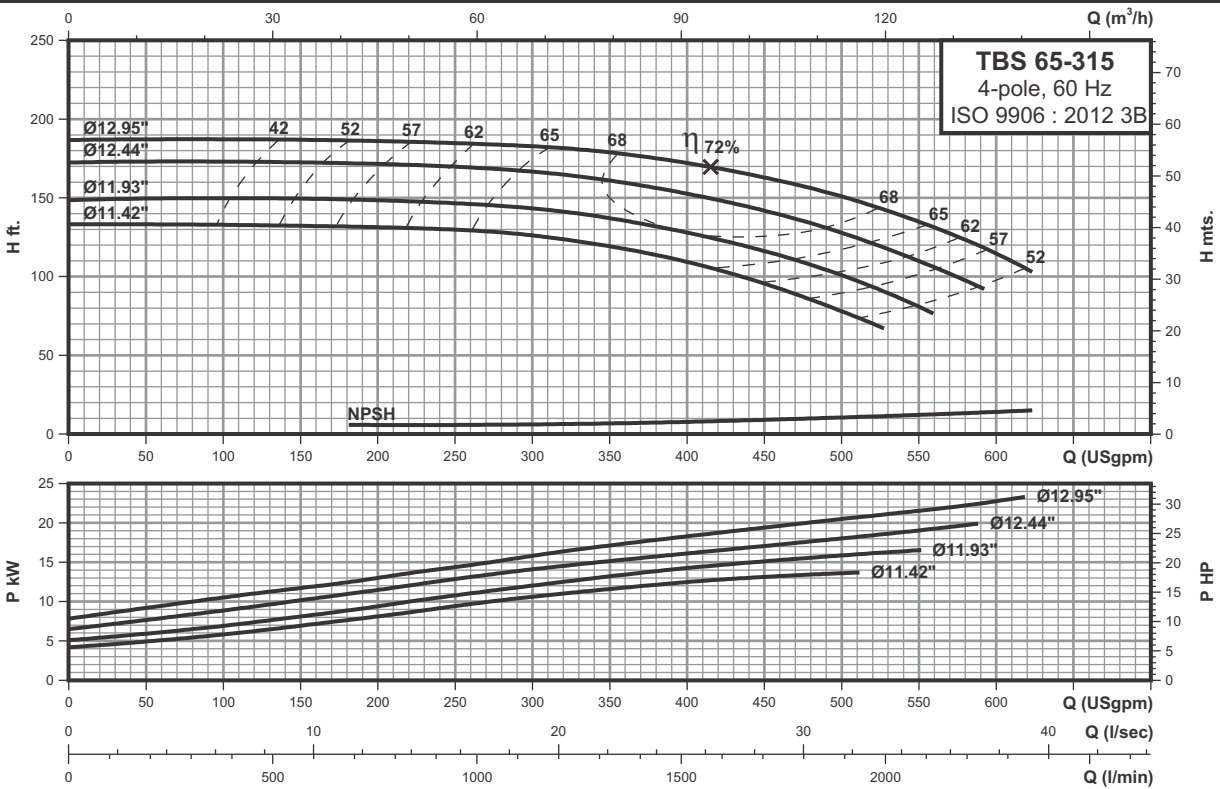
Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

Performance curves

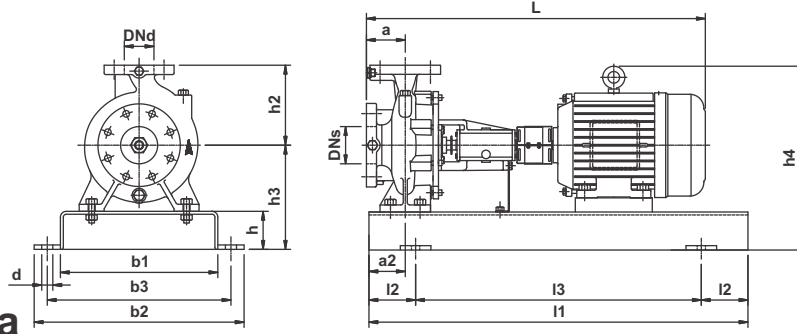
TBS 65-315

Single-stage bare shaft end-suction pumps

4-pole



4 POLE



Technical data

Power	(hp)	15	20	25	30
	(kw)	11	15	18.5	22
Frame		254T	256T	284T	286T
ANSI flange		125	125	125	125
DNs	inch(mm)	3.00(80)	3.00(80)	3.00(80)	3.00(80)
DNd	inch(mm)	2.50(65)	2.50(65)	2.50(65)	2.50(65)
a	inch(mm)	4.92(125)	4.92(125)	4.92(125)	4.92(125)
h2	inch(mm)	11.02(280)	11.02(280)	11.02(280)	11.02(280)
L	inch(mm)	47.60(1209)	49.25(1251)	51.93(1319)	53.46(1358)
l1	inch(mm)	49.21(1250)	55.12(1400)	55.12(1400)	55.12(1400)
l2	inch(mm)	8.07(205)	9.06(230)	9.06(230)	9.06(230)
l3	inch(mm)	33.07(840)	37.01(940)	37.01(940)	37.01(940)
b1	inch(mm)	16.93(430)	18.90(480)	18.90(480)	18.90(480)
b2	inch(mm)	21.26(540)	24.02(610)	24.02(610)	24.02(610)
b3	inch(mm)	19.29(490)	21.65(550)	21.65(550)	21.65(550)
d	inch(mm)	0.94(24)	1.10(28)	1.10(28)	1.10(28)
a2	inch(mm)	3.54(90)	3.54(90)	3.54(90)	3.54(90)
h	inch(mm)	3.15(80)	3.94(100)	3.94(100)	3.94(100)
h3	inch(mm)	12.01(305)	12.80(325)	12.80(325)	12.80(325)
h4	inch(mm)	20.75(527)	21.54(547)	22.32(567)	22.32(567)
Base frame no.		6	7	7	7
Net Weight	lbs(kg)	536(244)	635(289)	804(366)	839(382)
Gross Weight	lbs(kg)	774(352)	873(397)	1042(474)	1077(490)
Volume	ft ³ (m ³)	38.10(1.079)	38.10(1.079)	38.10(1.079)	38.10(1.079)

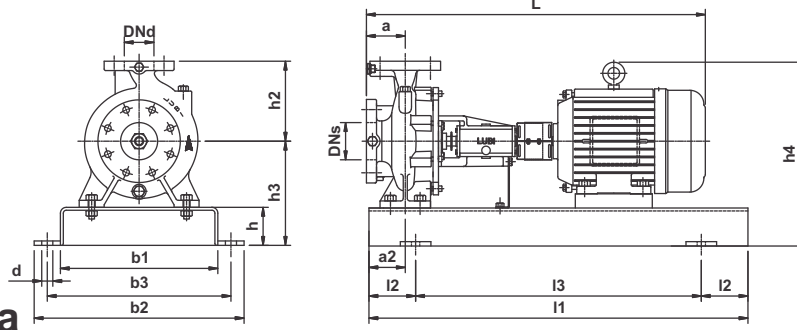
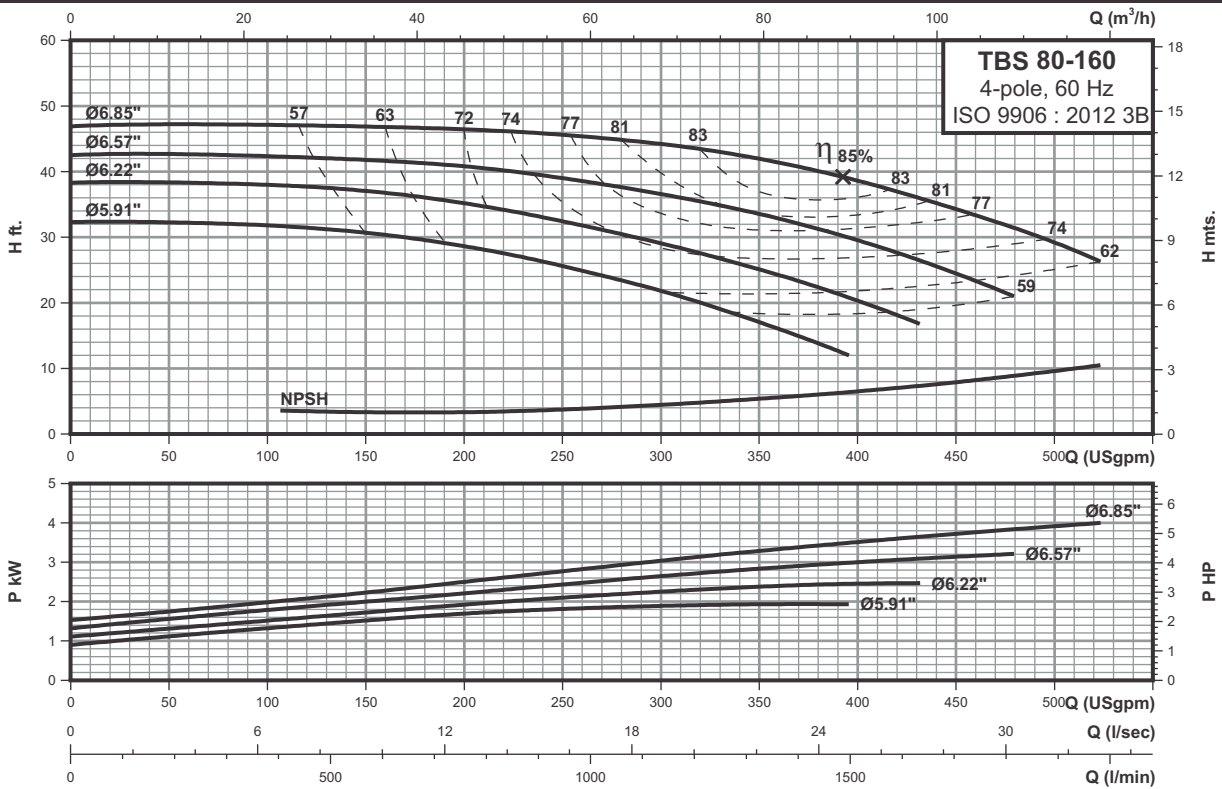
Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

Performance curves

TBS 80-160

Single-stage bare shaft end-suction pumps

4-pole



Technical data

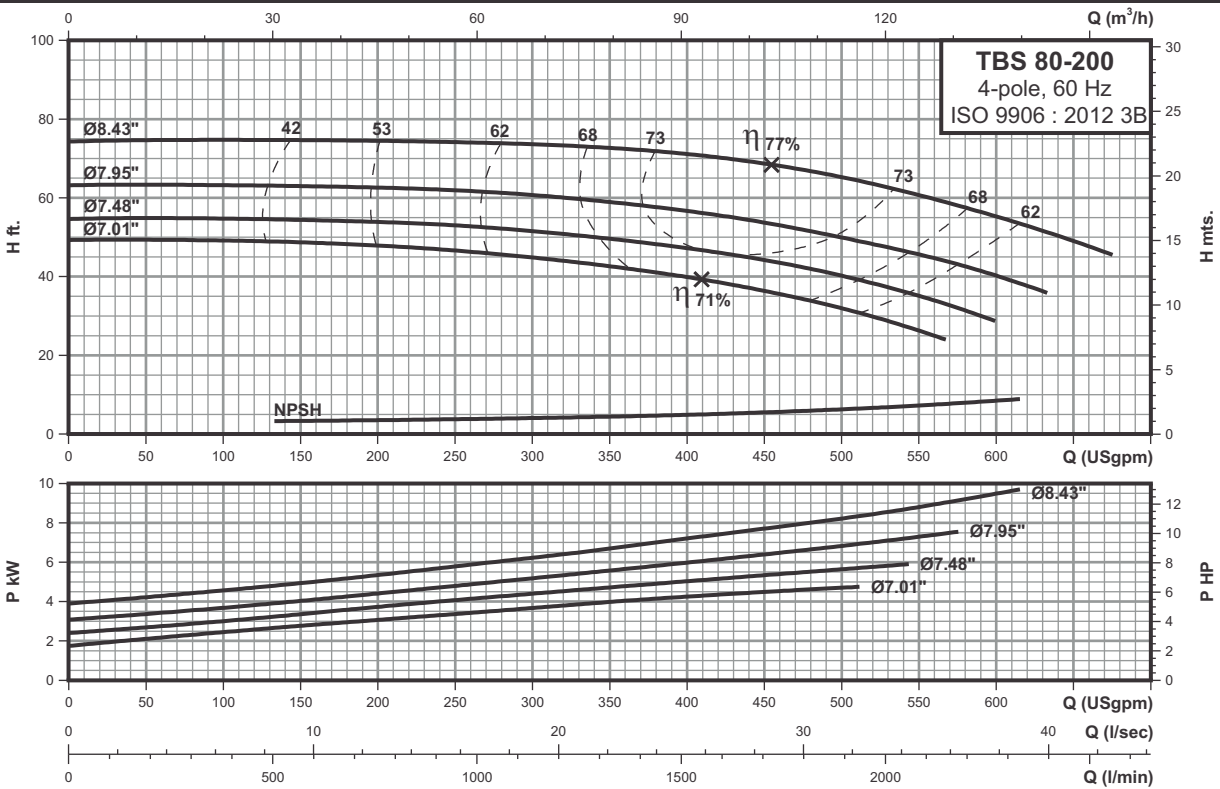
		Power			
		(hp)	3	4	5
		(kw)	2.2	3	3.7
Frame		182T	184T	184T	
ANSI flange		125	125	125	
DNs	inch(mm)	4.00(100)	4.00(100)	4.00(100)	
DNd	inch(mm)	3.00(80)	3.00(80)	3.00(80)	
a	inch(mm)	4.92(125)	4.92(125)	4.92(125)	
h2	inch(mm)	8.86(225)	8.86(225)	8.86(225)	
L	inch(mm)	35.67(906)	35.87(911)	35.87(911)	
l1	inch(mm)	39.37(1000)	39.37(1000)	39.37(1000)	
l2	inch(mm)	6.69(170)	6.69(170)	6.69(170)	
l3	inch(mm)	25.98(660)	25.98(660)	25.98(660)	
b1	inch(mm)	13.39(340)	13.39(340)	13.39(340)	
b2	inch(mm)	17.72(450)	17.72(450)	17.72(450)	
b3	inch(mm)	15.75(400)	15.75(400)	15.75(400)	
d	inch(mm)	0.94(24)	0.94(24)	0.94(24)	
a2	inch(mm)	2.95(75)	2.95(75)	2.95(75)	
h	inch(mm)	3.15(80)	3.15(80)	3.15(80)	
h3	inch(mm)	10.24(260)	10.24(260)	10.24(260)	
h4	inch(mm)	16.38(416)	16.38(416)	16.38(416)	
Base frame no.		4	4	4	
Net Weight	lbs(kg)	249(113)	253(115)	258(117)	
Gross Weight	lbs(kg)	418(190)	422(192)	427(194)	
Volume	ft³(m³)	22.70(0.643)	22.70(0.643)	22.70(0.643)	

Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

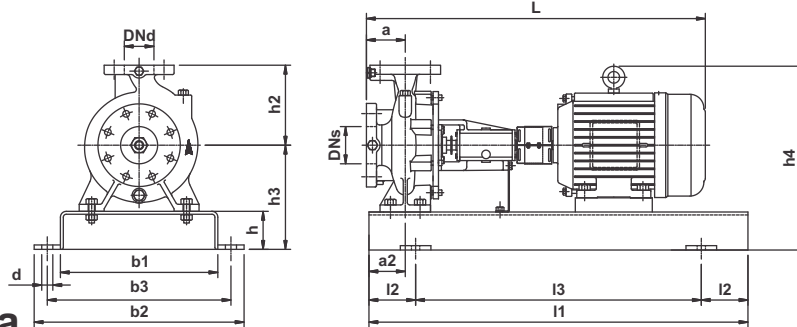
Performance curves

TBS 80-200 4-pole

Single-stage bare shaft end-suction pumps



4 POLE



Technical data

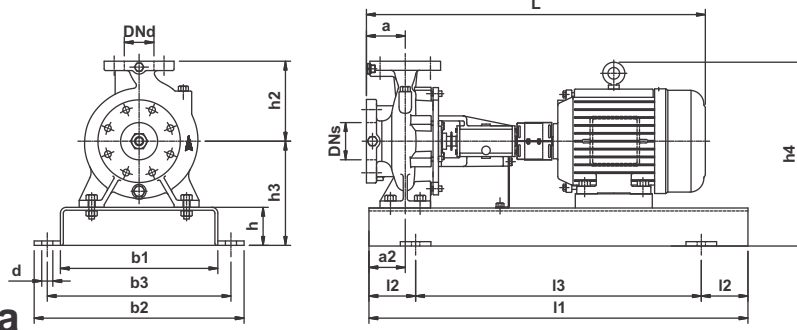
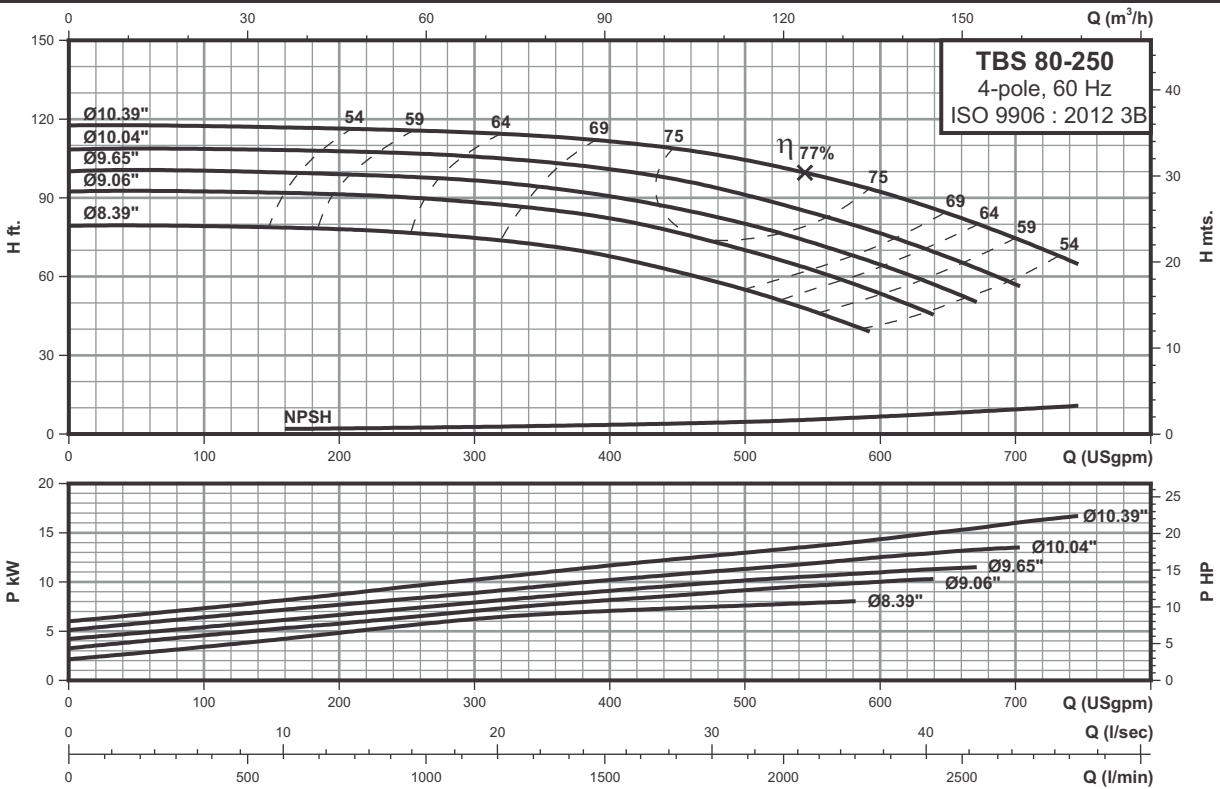
Power	(hp)	5	7.5	10	15
	(kw)	3.7	5.5	7.5	11
Frame		184T	213T	215T	254T
ANSI flange		125	125	125	125
DNs	inch(mm)	4.00(100)	4.00(100)	4.00(100)	4.00(100)
DNd	inch(mm)	3.00(80)	3.00(80)	3.00(80)	3.00(80)
a	inch(mm)	4.92(125)	4.92(125)	4.92(125)	4.92(125)
h2	inch(mm)	8.86(225)	8.86(225)	8.86(225)	8.86(225)
L	inch(mm)	40.16(1020)	44.09(1120)	44.09(1120)	47.44(1205)
l1	inch(mm)	44.09(1120)	44.09(1120)	44.09(1120)	49.21(1250)
l2	inch(mm)	7.48(190)	7.48(190)	7.48(190)	8.07(205)
l3	inch(mm)	29.13(740)	29.13(740)	29.13(740)	33.07(840)
b1	inch(mm)	14.96(380)	14.96(380)	14.96(380)	16.93(430)
b2	inch(mm)	19.29(490)	19.29(490)	19.29(490)	21.26(540)
b3	inch(mm)	17.32(440)	17.32(440)	17.32(440)	19.29(490)
d	inch(mm)	0.94(24)	0.94(24)	0.94(24)	0.94(24)
a2	inch(mm)	2.95(75)	2.95(75)	2.95(75)	2.95(75)
h	inch(mm)	3.15(80)	3.15(80)	3.15(80)	3.15(80)
h3	inch(mm)	10.24(260)	10.24(260)	10.24(260)	10.24(260)
h4	inch(mm)	16.38(416)	17.56(446)	17.56(446)	18.98(482)
Base frame no.		5	5	5	6
Net Weight	lbs(kg)	304(138)	369(168)	394(179)	480(218)
Gross Weight	lbs(kg)	473(215)	538(245)	563(256)	718(326)
Volume	ft³(m³)	22.70(0.643)	22.70(0.643)	22.70(0.643)	38.10(1.079)

Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

Performance curves

TBS 80-250 4-pole

Single-stage bare shaft end-suction pumps



Technical data

Power	(hp)	15	20	25
	(kw)	11	15	18.5
Frame		254T	256T	284T
ANSI flange		125	125	125
DNs	inch(mm)	4.00(100)	4.00(100)	4.00(100)
DNd	inch(mm)	3.00(80)	3.00(80)	3.00(80)
a	inch(mm)	4.92(125)	4.92(125)	4.92(125)
h2	inch(mm)	11.02(280)	11.02(280)	11.02(280)
L	inch(mm)	47.60(1209)	49.25(1251)	51.93(1319)
l1	inch(mm)	49.21(1250)	49.21(1250)	49.21(1250)
l2	inch(mm)	8.07(205)	8.07(205)	8.07(205)
l3	inch(mm)	33.07(840)	33.07(840)	33.07(840)
b1	inch(mm)	16.93(430)	16.93(430)	16.93(430)
b2	inch(mm)	21.26(540)	21.26(540)	21.26(540)
b3	inch(mm)	19.29(490)	19.29(490)	19.29(490)
d	inch(mm)	0.94(24)	0.94(24)	0.94(24)
a2	inch(mm)	3.54(90)	3.54(90)	3.54(90)
h	inch(mm)	3.15(80)	3.15(80)	3.15(80)
h3	inch(mm)	11.02(280)	11.02(280)	11.02(280)
h4	inch(mm)	19.76(502)	19.76(502)	20.51(521)
Base frame no.		6	6	6
Net Weight	lbs(kg)	510(232)	557(253)	726(330)
Gross Weight	lbs(kg)	748(340)	795(361)	964(438)
Volume	ft³(m³)	38.10(1.079)	38.10(1.079)	38.10(1.079)

Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

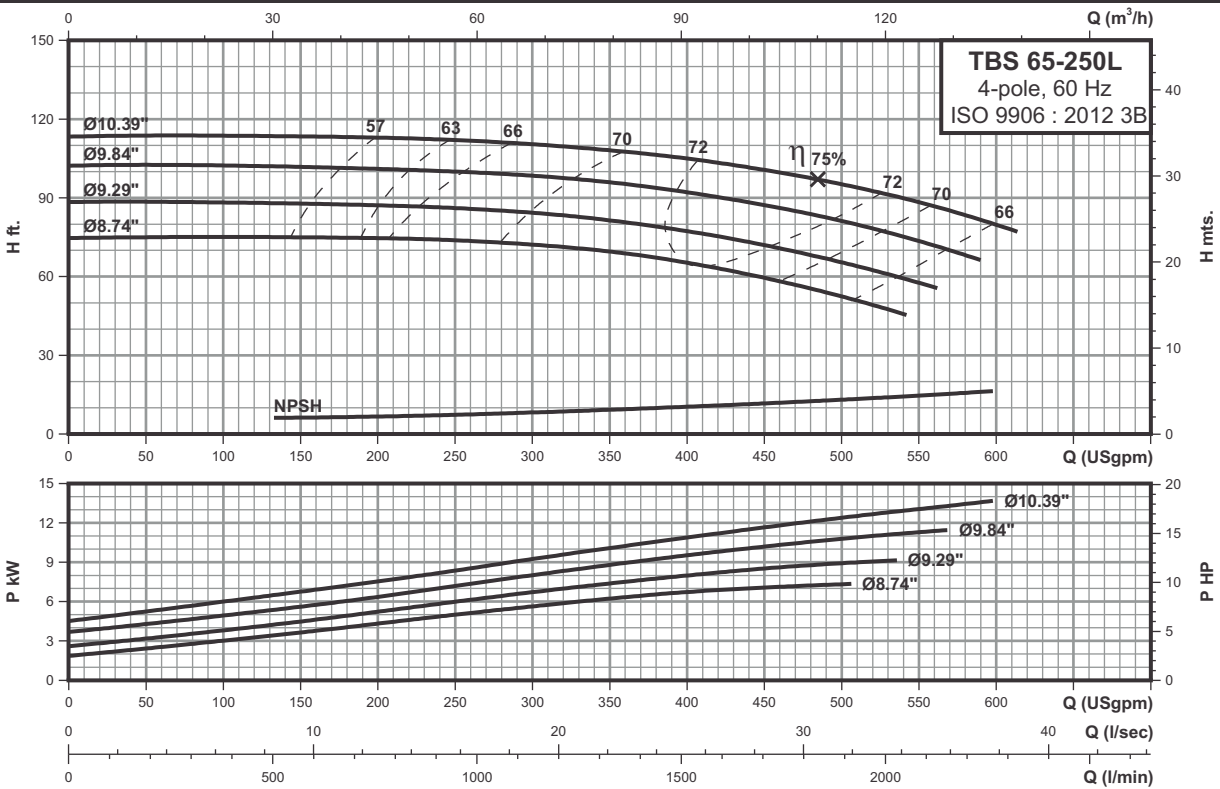
4 POLE

Performance curves

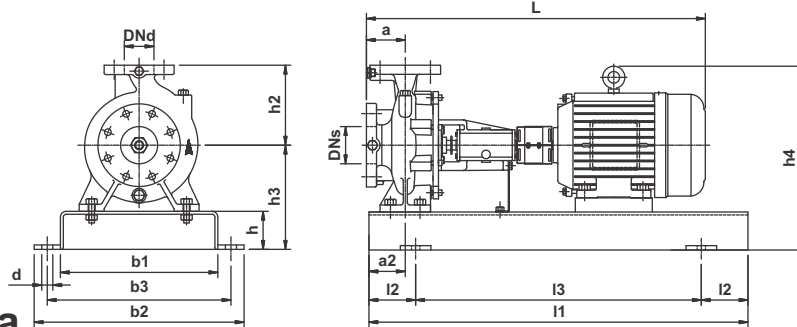
TBS 65-250L

Single-stage bare shaft end-suction pumps

4-pole



4 POLE



Technical data

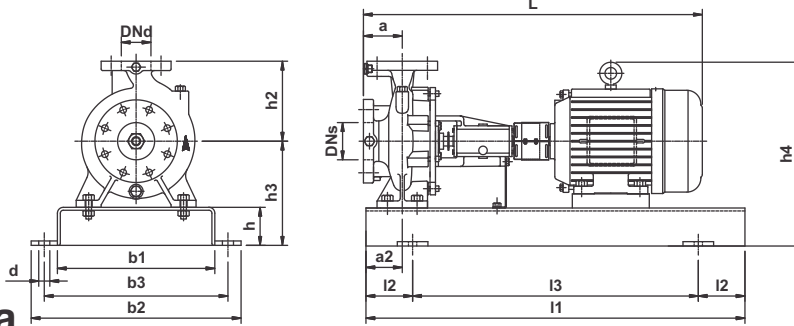
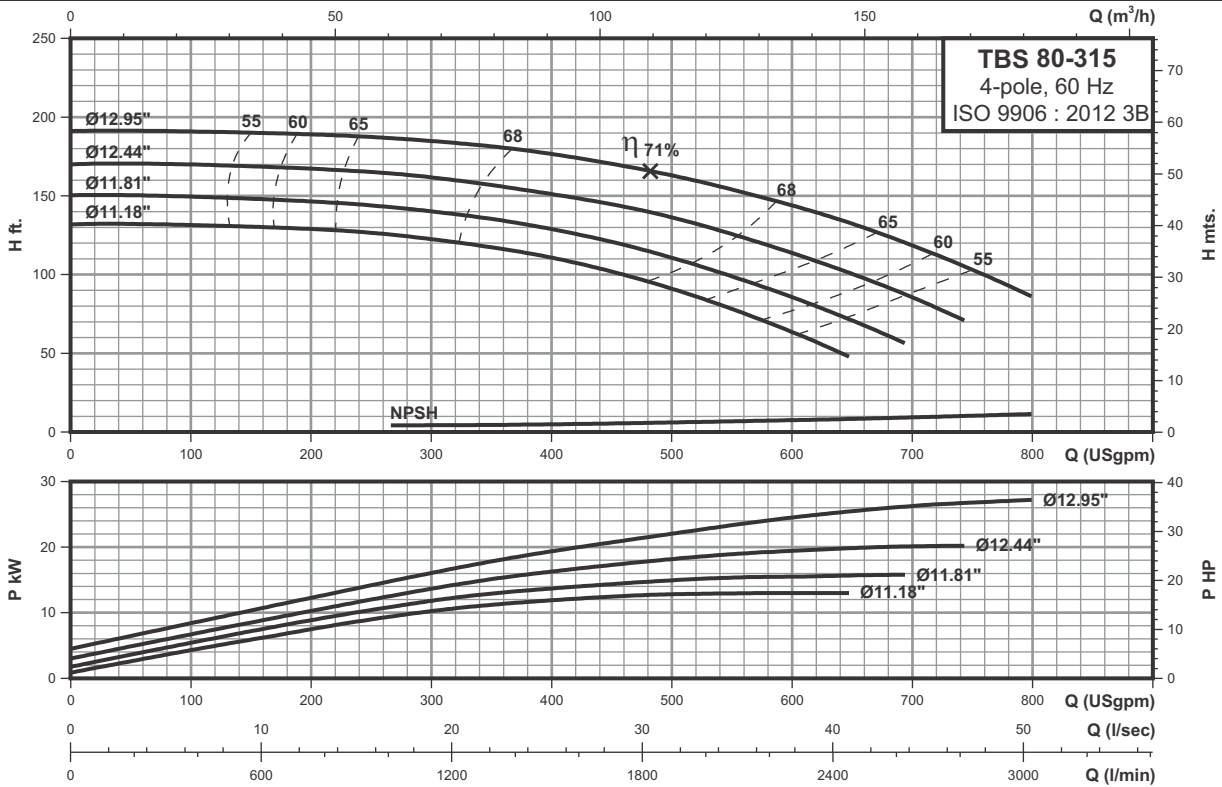
Power	(hp)	10	15
	(kw)	7.5	11
Frame		215T	254T
ANSI flange		125	125
DNs	inch(mm)	4.00(100)	4.00(100)
DNd	inch(mm)	2.50(65)	2.50(65)
a	inch(mm)	3.94(100)	3.94(100)
h2	inch(mm)	9.84(250)	9.84(250)
L	inch(mm)	43.11(1095)	46.61(1184)
l1	inch(mm)	44.09(1120)	49.21(1250)
l2	inch(mm)	7.48(190)	8.07(205)
l3	inch(mm)	29.13(740)	33.07(840)
b1	inch(mm)	14.96(380)	16.93(430)
b2	inch(mm)	19.29(490)	21.26(540)
b3	inch(mm)	17.32(440)	19.29(490)
d	inch(mm)	0.94(24)	0.94(24)
a2	inch(mm)	3.54(90)	3.54(90)
h	inch(mm)	3.15(80)	3.15(80)
h3	inch(mm)	11.02(280)	11.02(280)
h4	inch(mm)	18.35(466)	19.76(502)
Base frame no.		5	6
Net Weight	lbs(kg)	411(187)	497(226)
Gross Weight	lbs(kg)	580(264)	735(334)
Volume	ft³(m³)	22.70(0.643)	38.10(1.079)

Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

Performance curves

Single-stage bare shaft end-suction pumps

TBS 80-315 4-pole



Technical data

Power	(hp)	20	25	30	40
	(kw)	15	18.5	22	30
Frame		256T	284T	286T	324T
ANSI flange		125	125	125	125
DNs	inch(mm)	4.00(100)	4.00(100)	4.00(100)	4.00(100)
DNd	inch(mm)	3.00(80)	3.00(80)	3.00(80)	3.00(80)
a	inch(mm)	4.92(125)	4.92(125)	4.92(125)	4.92(125)
h2	inch(mm)	12.40(315)	12.40(315)	12.40(315)	12.40(315)
L	inch(mm)	49.25(1251)	51.93(1319)	53.46(1358)	55.94(1421)
l1	inch(mm)	55.12(1400)	55.12(1400)	55.12(1400)	55.12(1400)
l2	inch(mm)	9.06(230)	9.06(230)	9.06(230)	9.06(230)
l3	inch(mm)	37.01(940)	37.01(940)	37.01(940)	37.01(940)
b1	inch(mm)	18.90(480)	18.90(480)	18.90(480)	18.90(480)
b2	inch(mm)	24.02(610)	24.02(610)	24.02(610)	24.02(610)
b3	inch(mm)	21.65(550)	21.65(550)	21.65(550)	21.65(550)
d	inch(mm)	1.10(28)	1.10(28)	1.10(28)	1.10(28)
a2	inch(mm)	3.54(90)	3.54(90)	3.54(90)	3.54(90)
h	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
h3	inch(mm)	13.78(350)	13.78(350)	13.78(350)	13.78(350)
h4	inch(mm)	22.52(572)	23.31(592)	23.31(592)	23.86(606)
Base frame no.		7	7	7	7
Net Weight	lbs(kg)	638(290)	807(367)	843(383)	959(436)
Gross Weight	lbs(kg)	876(398)	1045(475)	1081(491)	1197(544)
Volume	ft³(m³)	38.10(1.079)	38.10(1.079)	38.10(1.079)	38.10(1.079)

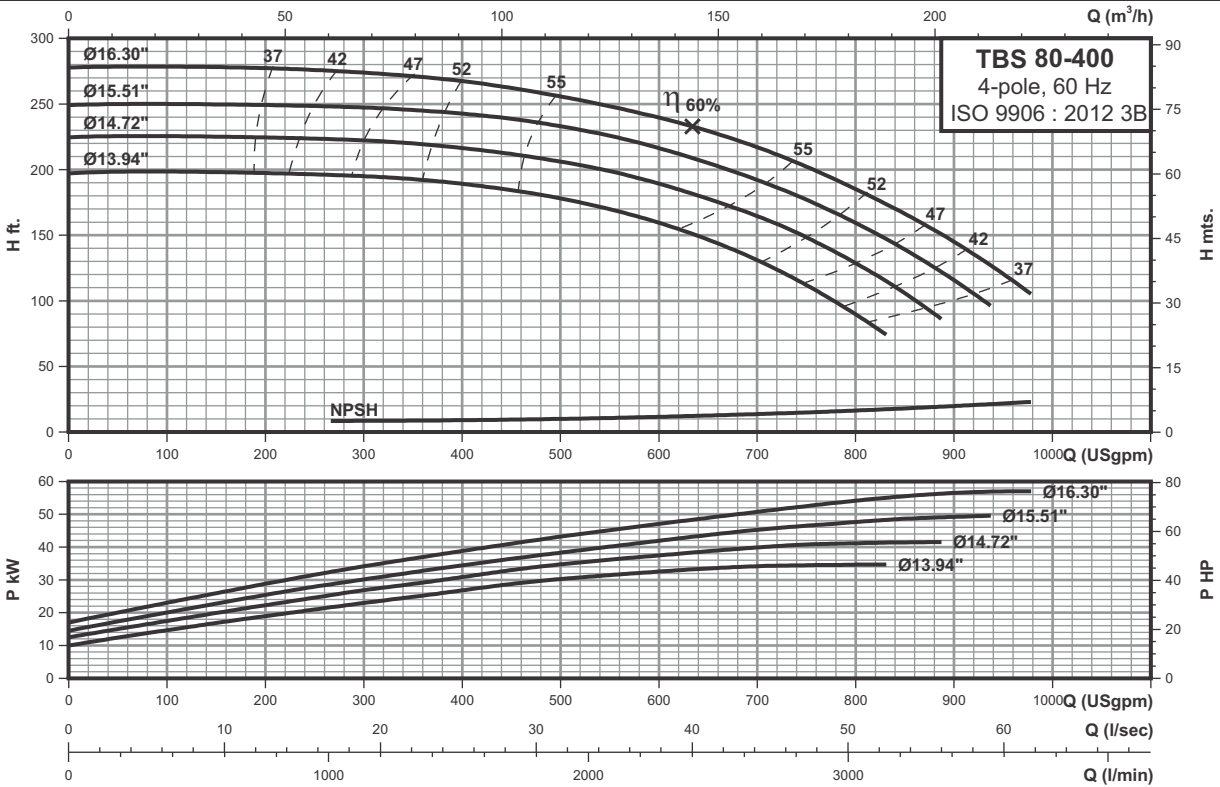
Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

Performance curves

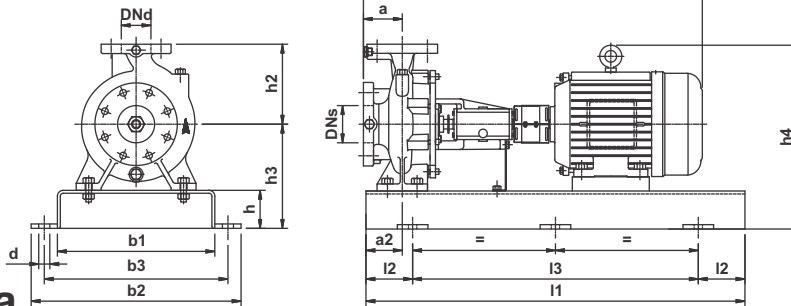
TBS 80-400

Single-stage bare shaft end-suction pumps

4-pole



4 POLE



Technical data

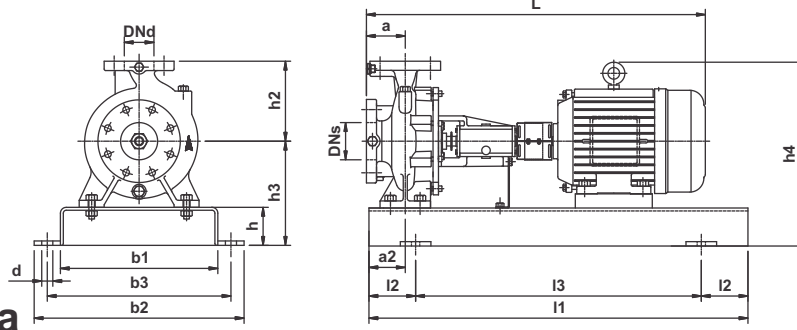
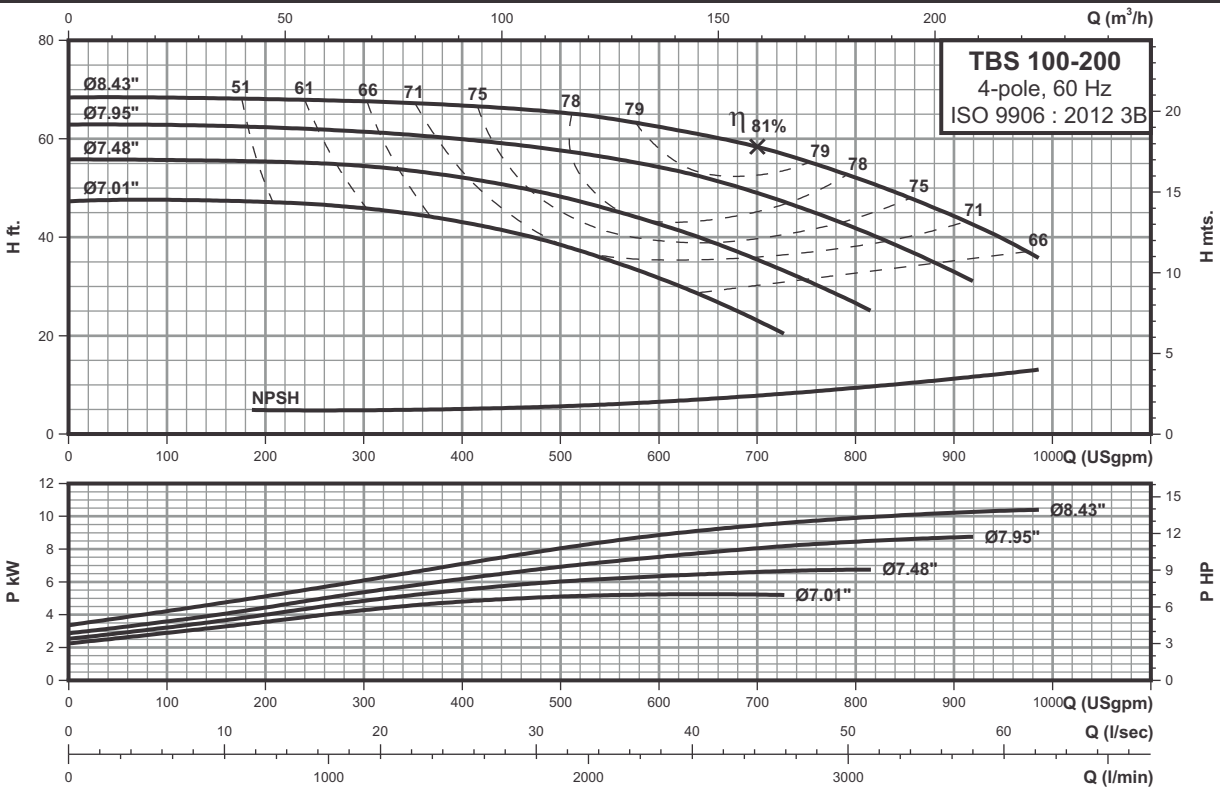
Power	(hp)	40	50	60	75
	(kw)	30	37	45	55
Frame		324T	326T	364T	365T
ANSI flange		125	125	125	125
DNs	inch(mm)	4.00(100)	4.00(100)	4.00(100)	4.00(100)
DNd	inch(mm)	3.00(80)	3.00(80)	3.00(80)	3.00(80)
a	inch(mm)	5.51(140)	5.51(140)	5.51(140)	5.51(140)
h2	inch(mm)	13.98(355)	13.98(355)	13.98(355)	13.98(355)
L	inch(mm)	58.90(1496)	58.90(1496)	60.00(1524)	60.98(1549)
l1	inch(mm)	62.99(1600)	62.99(1600)	62.99(1600)	62.99(1600)
l2	inch(mm)	10.63(270)	10.63(270)	10.63(270)	10.63(270)
l3	inch(mm)	41.73(1060)	41.73(1060)	41.73(1060)	41.73(1060)
b1	inch(mm)	20.87(530)	20.87(530)	20.87(530)	20.87(530)
b2	inch(mm)	25.98(660)	25.98(660)	25.98(660)	25.98(660)
b3	inch(mm)	23.62(600)	23.62(600)	23.62(600)	23.62(600)
d	inch(mm)	1.10(28)	1.10(28)	1.10(28)	1.10(28)
a2	inch(mm)	4.33(110)	4.33(110)	4.33(110)	4.33(110)
h	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
h3	inch(mm)	14.96(380)	14.96(380)	14.96(380)	14.96(380)
h4	inch(mm)	25.08(637)	25.08(637)	26.14(664)	26.14(664)
Base frame no.		8	8	8	8
Net Weight	lbs(kg)	1099(500)	1147(522)	1244(566)	1349(613)
Gross Weight	lbs(kg)	1392(633)	1440(655)	1537(699)	1642(746)
Volume	ft³(m³)	52.05(1.474)	52.05(1.474)	52.05(1.474)	52.05(1.474)

Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

Performance curves

TBS 100-200 4-pole

Single-stage bare shaft end-suction pumps



Technical data

Power	(hp)	7.5	10	15
	(kw)	5.5	7.5	11
Frame		213T	215T	254T
ANSI flange		125	125	125
DNs	inch(mm)	5.00(125)	5.00(125)	5.00(125)
DNd	inch(mm)	4.00(100)	4.00(100)	4.00(100)
a	inch(mm)	4.92(125)	4.92(125)	4.92(125)
h2	inch(mm)	11.02(280)	11.02(280)	11.02(280)
L	inch(mm)	44.09(1120)	44.09(1120)	47.56(1208)
l1	inch(mm)	44.09(1120)	44.09(1120)	49.21(1250)
l2	inch(mm)	7.48(190)	7.48(190)	8.07(205)
l3	inch(mm)	29.13(740)	29.13(740)	33.07(840)
b1	inch(mm)	14.96(380)	14.96(380)	16.93(430)
b2	inch(mm)	19.29(490)	19.29(490)	21.26(540)
b3	inch(mm)	17.32(440)	17.32(440)	19.29(490)
d	inch(mm)	0.94(24)	0.94(24)	0.94(24)
a2	inch(mm)	3.54(90)	3.54(90)	3.54(90)
h	inch(mm)	3.15(80)	3.15(80)	3.15(80)
h3	inch(mm)	11.02(280)	11.02(280)	11.02(280)
h4	inch(mm)	18.35(466)	18.35(466)	19.76(502)
Base frame no.		5	5	6
Net Weight	lbs(kg)	393(179)	418(190)	504(229)
Gross Weight	lbs(kg)	562(256)	587(267)	742(337)
Volume	ft³(m³)	22.70(0.643)	22.70(0.643)	38.10(1.079)

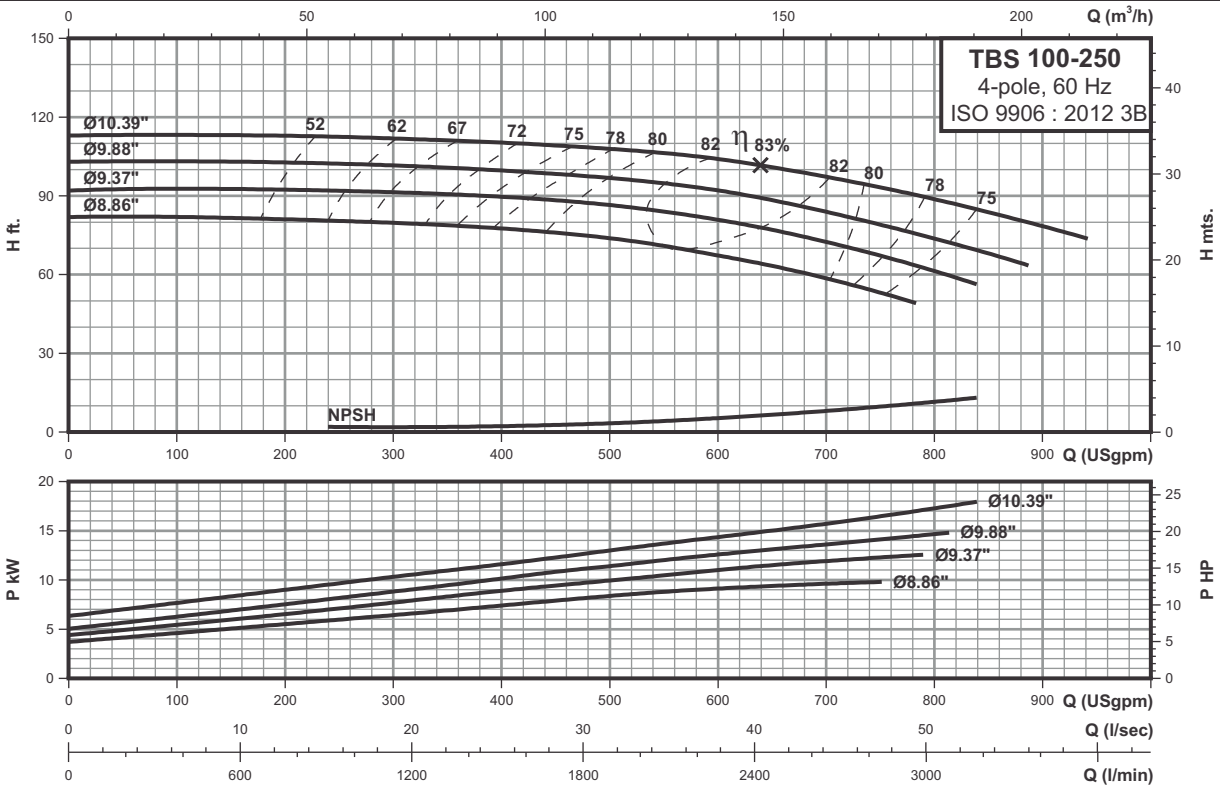
Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

4 POLE

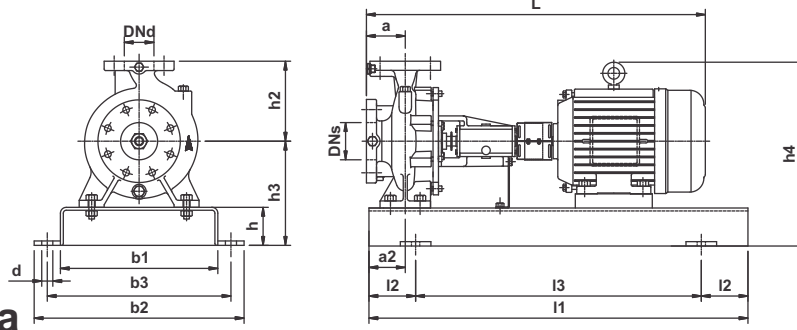
Performance curves

TBS 100-250 4-pole

Single-stage bare shaft end-suction pumps



4 POLE



Technical data

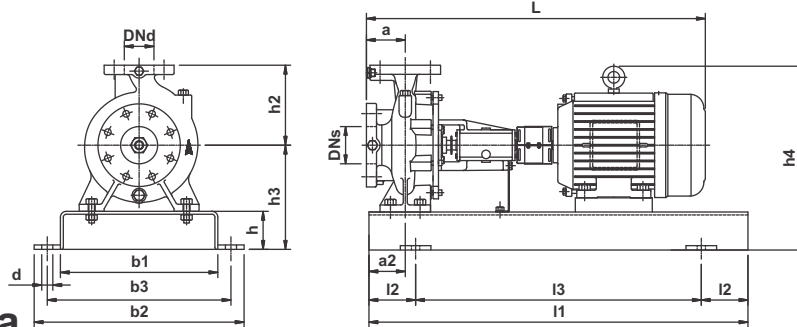
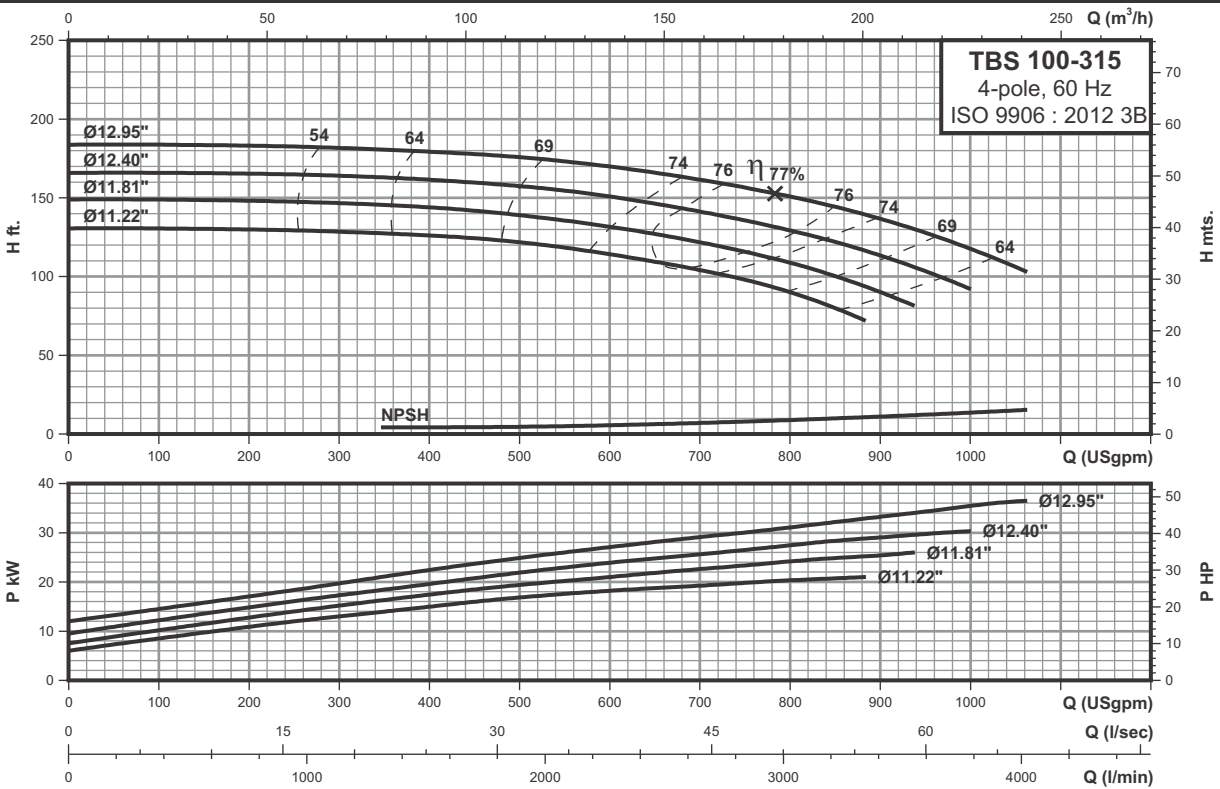
Power	(hp)	15	20	25
	(kw)	11	15	18.5
Frame		254T	256T	284T
ANSI flange		125	125	125
DNs	inch(mm)	5.00(125)	5.00(125)	5.00(125)
DNd	inch(mm)	4.00(100)	4.00(100)	4.00(100)
a	inch(mm)	5.51(140)	5.51(140)	5.51(140)
h2	inch(mm)	11.02(280)	11.02(280)	11.02(280)
L	inch(mm)	48.19(1224)	49.84(1266)	52.52(1334)
l1	inch(mm)	49.21(1250)	55.12(1400)	55.12(1400)
l2	inch(mm)	8.07(205)	9.06(230)	9.06(230)
l3	inch(mm)	33.07(840)	37.01(940)	37.01(940)
b1	inch(mm)	16.93(430)	18.90(480)	18.90(480)
b2	inch(mm)	21.26(540)	24.02(610)	24.02(610)
b3	inch(mm)	19.29(490)	21.65(550)	21.65(550)
d	inch(mm)	0.94(24)	1.10(28)	1.10(28)
a2	inch(mm)	3.54(90)	3.54(90)	3.54(90)
h	inch(mm)	3.15(80)	3.94(100)	3.94(100)
h3	inch(mm)	12.01(305)	12.80(325)	12.80(325)
h4	inch(mm)	20.75(527)	21.54(547)	22.28(566)
Base frame no.		6	7	7
Net Weight	lbs(kg)	528(240)	627(285)	796(362)
Gross Weight	lbs(kg)	766(348)	865(393)	1034(470)
Volume	ft³(m³)	38.10(1.079)	38.10(1.079)	38.10(1.079)

Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

Performance curves

Single-stage bare shaft end-suction pumps

TBS 100-315 4-pole



Technical data

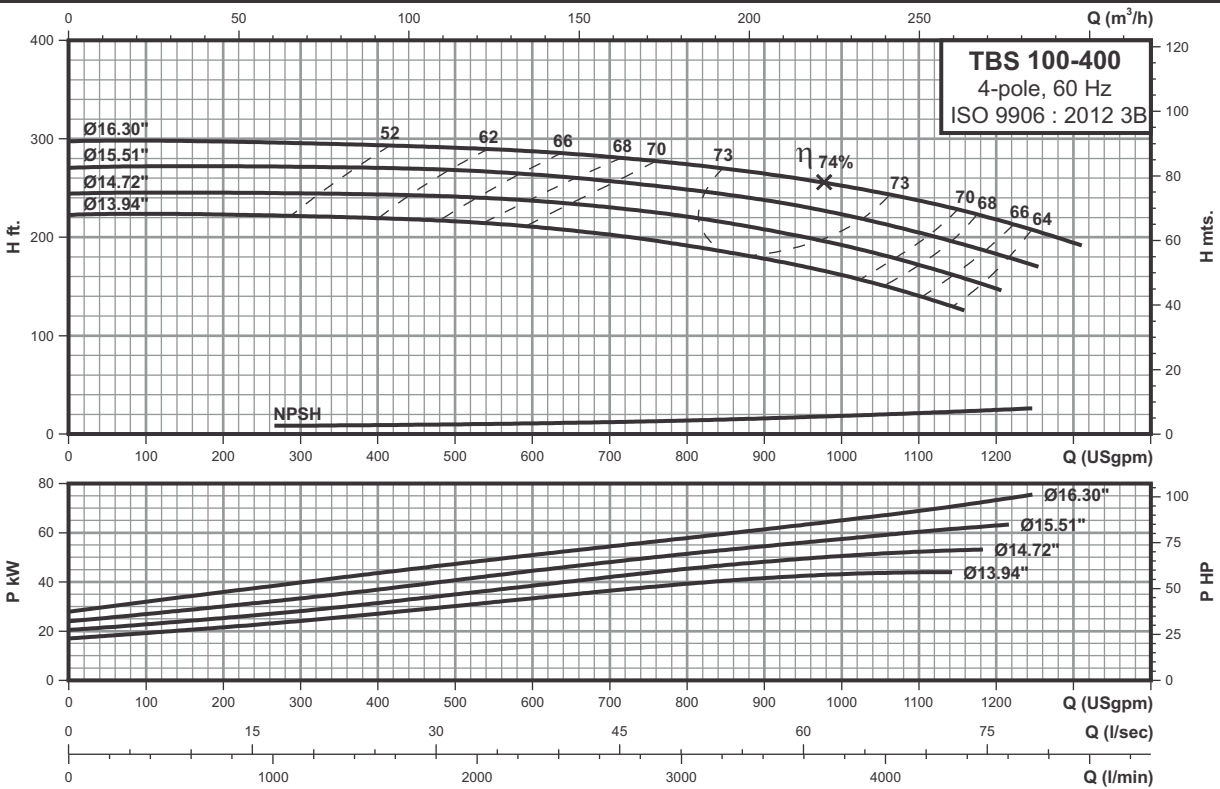
Power	(hp)	25	30	40	50
	(kw)	18.5	22	30	37
Frame		284T	286T	324T	326T
ANSI flange		125	125	125	125
DNs	inch(mm)	5.00(125)	5.00(125)	5.00(125)	5.00(125)
DNd	inch(mm)	4.00(100)	4.00(100)	4.00(100)	4.00(100)
a	inch(mm)	5.51(140)	5.51(140)	5.51(140)	5.51(140)
h2	inch(mm)	12.40(315)	12.40(315)	12.40(315)	12.40(315)
L	inch(mm)	52.52(1334)	54.06(1373)	56.54(1436)	56.54(1436)
l1	inch(mm)	55.12(1400)	55.12(1400)	55.12(1400)	55.12(1400)
l2	inch(mm)	9.06(230)	9.06(230)	9.06(230)	9.06(230)
l3	inch(mm)	37.01(940)	37.01(940)	37.01(940)	37.01(940)
b1	inch(mm)	18.90(480)	18.90(480)	18.90(480)	18.90(480)
b2	inch(mm)	24.02(610)	24.02(610)	24.02(610)	24.02(610)
b3	inch(mm)	21.65(550)	21.65(550)	21.65(550)	21.65(550)
d	inch(mm)	1.10(28)	1.10(28)	1.10(28)	1.10(28)
a2	inch(mm)	3.54(90)	3.54(90)	3.54(90)	3.54(90)
h	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
h3	inch(mm)	13.78(350)	13.78(350)	13.78(350)	13.78(350)
h4	inch(mm)	23.31(592)	23.31(592)	23.86(606)	23.86(606)
Base frame no.		7	7	7	7
Net Weight	lbs(kg)	827(376)	862(392)	979(445)	1027(467)
Gross Weight	lbs(kg)	1065(484)	1100(500)	1217(553)	1265(575)
Volume	ft³(m³)	38.10(1.079)	38.10(1.079)	38.10(1.079)	38.10(1.079)

Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

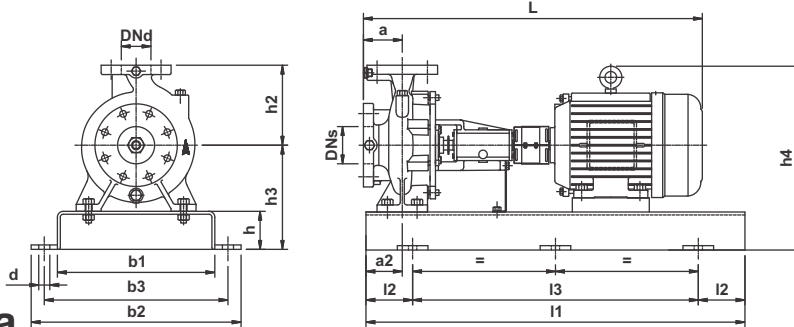
Performance curves

TBS 100-400 4-pole

Single-stage bare shaft end-suction pumps



4 POLE



Technical data

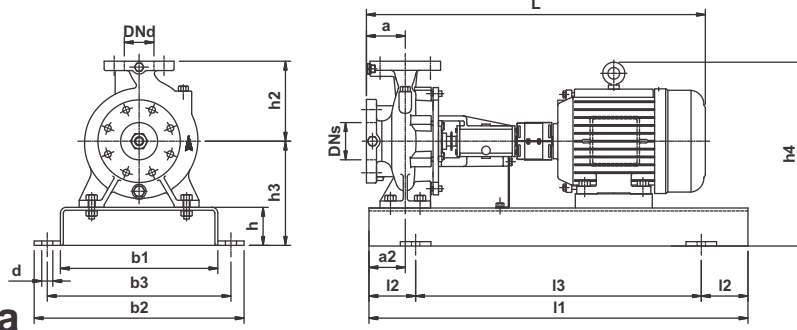
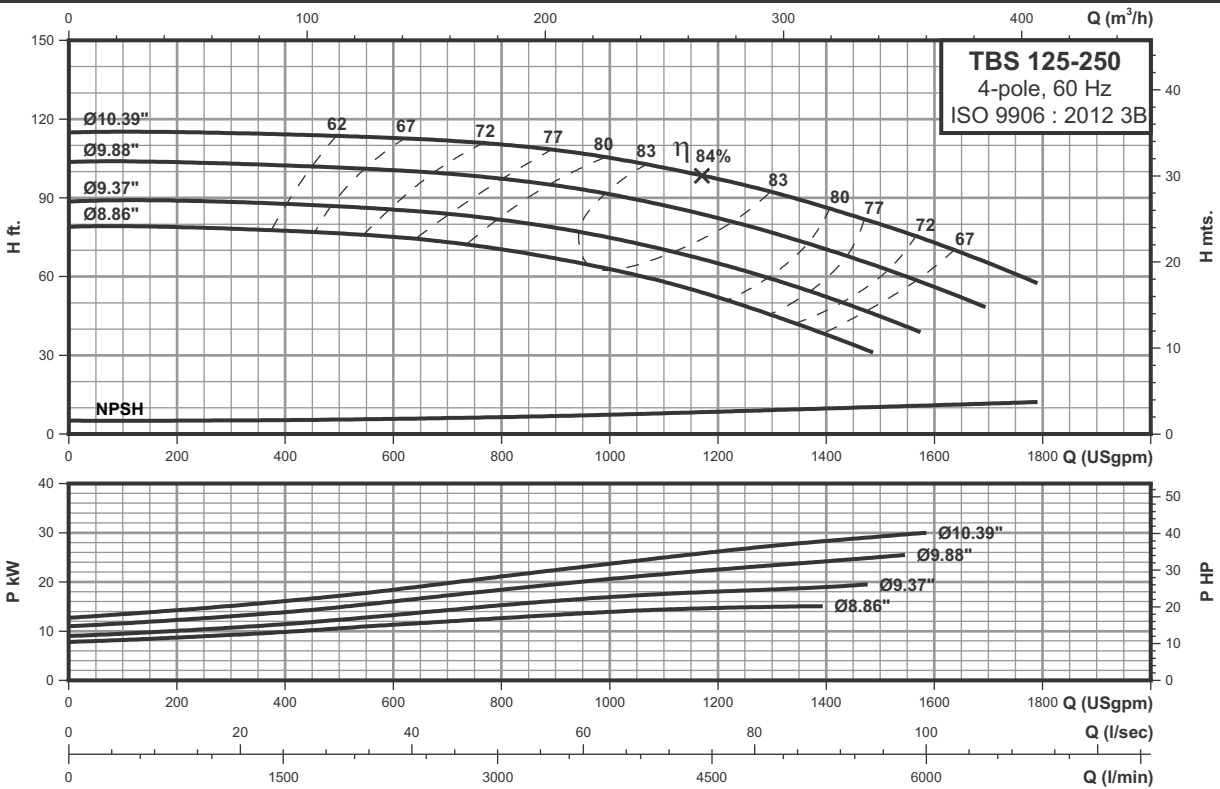
Power	(hp)	50	60	75	100
	(kw)	37	45	55	75
Frame		326T	364T	365T	405T
ANSI flange		125	125	125	250
DNs	inch(mm)	5.00(125)	5.00(125)	5.00(125)	5.00(125)
DNd	inch(mm)	4.00(100)	4.00(100)	4.00(100)	4.00(100)
a	inch(mm)	5.51(140)	5.51(140)	5.51(140)	5.51(140)
h2	inch(mm)	13.98(355)	13.98(355)	13.98(355)	13.98(355)
L	inch(mm)	58.90(1496)	60.00(1524)	60.98(1549)	65.04(1652)
l1	inch(mm)	62.99(1600)	62.99(1600)	62.99(1600)	62.99(1600)
l2	inch(mm)	10.63(270)	10.63(270)	10.63(270)	10.63(270)
l3	inch(mm)	41.73(1060)	41.73(1060)	41.73(1060)	41.73(1060)
b1	inch(mm)	20.87(530)	20.87(530)	20.87(530)	20.87(530)
b2	inch(mm)	25.98(660)	25.98(660)	25.98(660)	25.98(660)
b3	inch(mm)	23.62(600)	23.62(600)	23.62(600)	23.62(600)
d	inch(mm)	1.10(28)	1.10(28)	1.10(28)	1.10(28)
a2	inch(mm)	4.33(110)	4.33(110)	4.33(110)	4.33(110)
h	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
h3	inch(mm)	14.96(380)	14.96(380)	14.96(380)	14.96(380)
h4	inch(mm)	25.08(637)	26.14(664)	26.14(664)	27.40(696)
Base frame no.		8	8	8	8
Net Weight	lbs(kg)	1147(522)	1244(566)	1349(613)	1725(784)
Gross Weight	lbs(kg)	1440(655)	1537(699)	1642(746)	2018(917)
Volume	ft³(m³)	52.05(1.474)	52.05(1.474)	52.05(1.474)	52.05(1.474)

Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

Performance curves

Single-stage bare shaft end-suction pumps

TBS 125-250 4-pole



Technical data

Power	(hp)	20	25	30	40
	(kw)	15	18.5	22	30
Frame		256T	284T	286T	324T
ANSI flange		125	125	125	125
DNs	inch(mm)	6.00(150)	6.00(150)	6.00(150)	6.00(150)
DNd	inch(mm)	5.00(125)	5.00(125)	5.00(125)	5.00(125)
a	inch(mm)	5.51(140)	5.51(140)	5.51(140)	5.51(140)
h2	inch(mm)	13.98(355)	13.98(355)	13.98(355)	13.98(355)
L	inch(mm)	49.84(1266)	52.52(1334)	54.06(1373)	56.54(1436)
l1	inch(mm)	55.12(1400)	55.12(1400)	55.12(1400)	55.12(1400)
l2	inch(mm)	9.06(230)	9.06(230)	9.06(230)	9.06(230)
l3	inch(mm)	37.01(940)	37.01(940)	37.01(940)	37.01(940)
b1	inch(mm)	18.90(480)	18.90(480)	18.90(480)	18.90(480)
b2	inch(mm)	24.02(610)	24.02(610)	24.02(610)	24.02(610)
b3	inch(mm)	21.65(550)	21.65(550)	21.65(550)	21.65(550)
d	inch(mm)	1.10(28)	1.10(28)	1.10(28)	1.10(28)
a2	inch(mm)	3.54(90)	3.54(90)	3.54(90)	3.54(90)
h	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
h3	inch(mm)	13.78(350)	13.78(350)	13.78(350)	13.78(350)
h4	inch(mm)	22.52(572)	23.27(591)	23.27(591)	23.86(606)
Base frame no.		6	6	7	7
Net Weight	lbs(kg)	686(312)	856(389)	891(405)	1008(458)
Gross Weight	lbs(kg)	924(420)	1094(497)	1129(513)	1246(566)
Volume	ft³(m³)	38.10(1.079)	38.10(1.079)	38.10(1.079)	38.10(1.079)

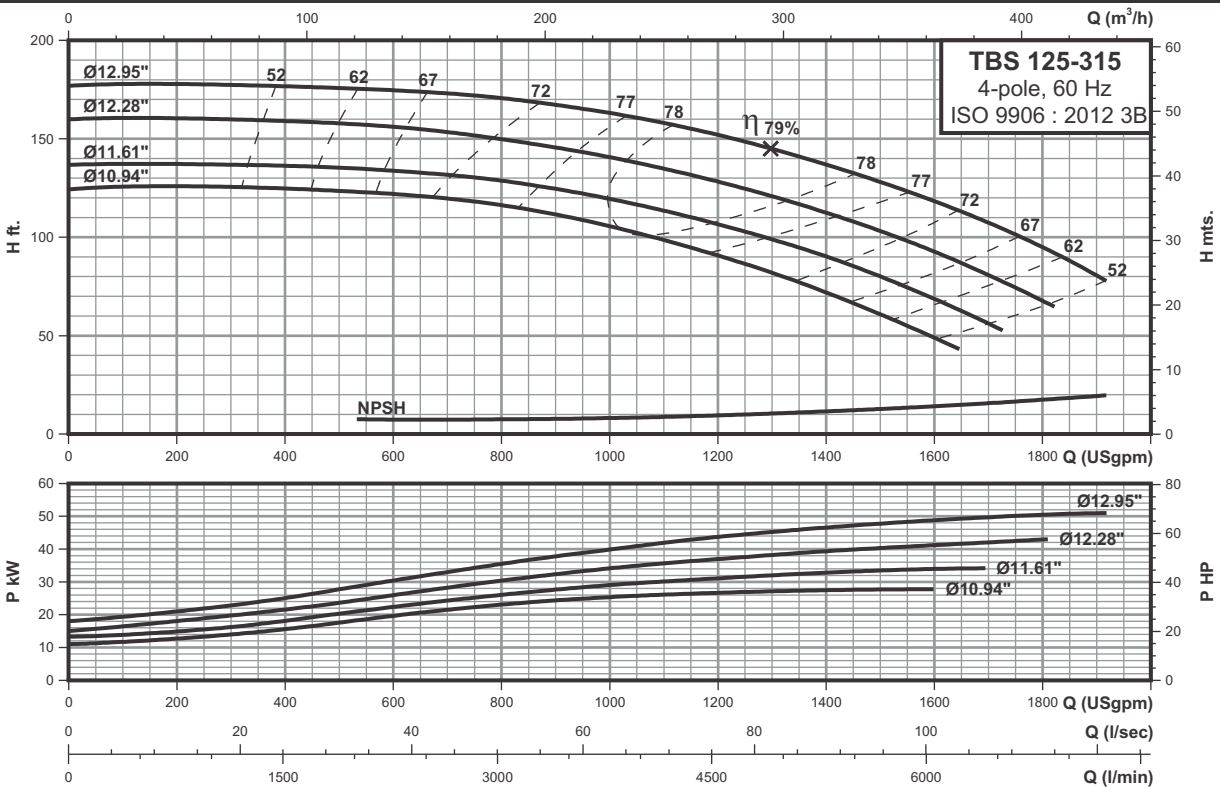
Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

Performance curves

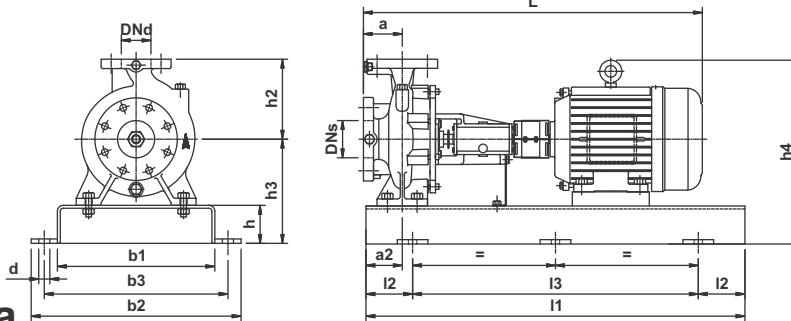
TBS 125-315

Single-stage bare shaft end-suction pumps

4-pole



4 POLE



Technical data

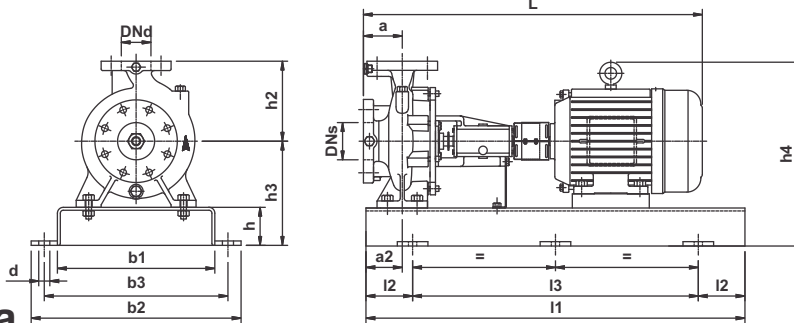
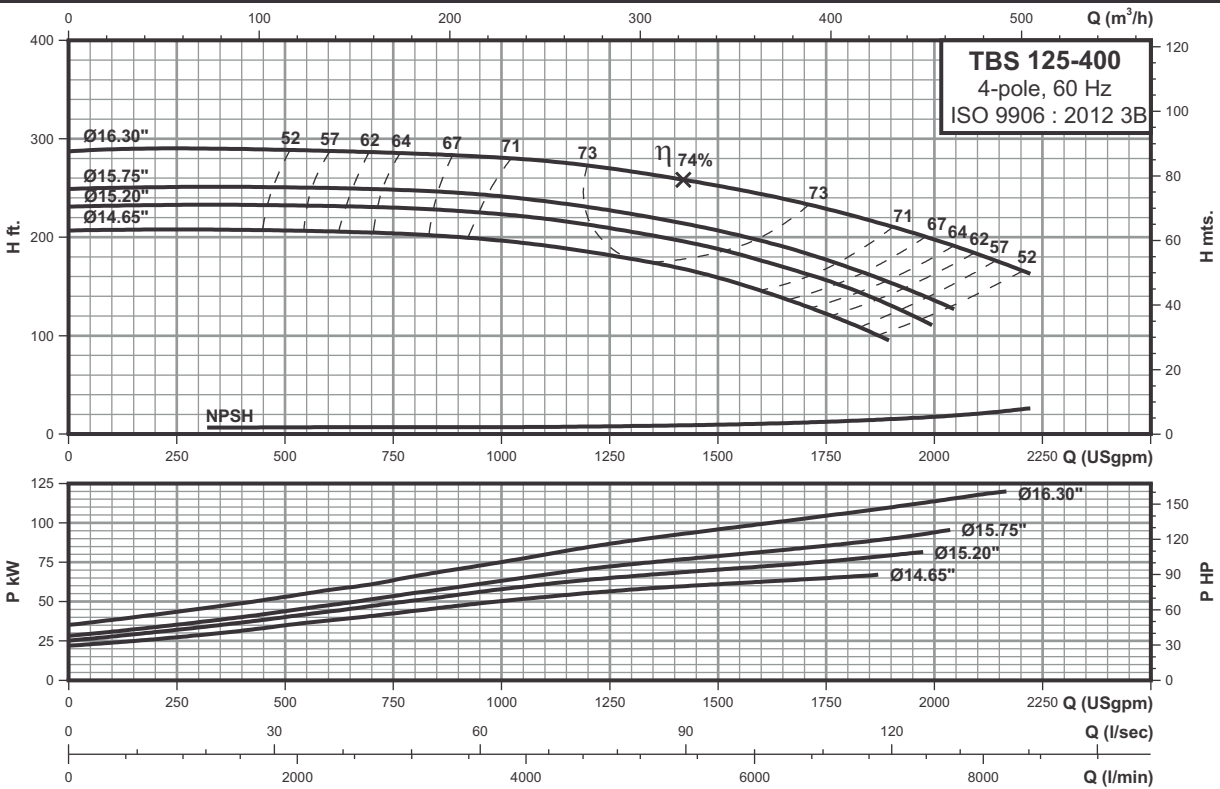
Power	(hp)	40	50	60	75
	(kw)	30	37	45	55
Frame		324T	326T	364T	365T
ANSI flange		125	125	125	125
DNs	inch(mm)	6.00(150)	6.00(150)	6.00(150)	6.00(150)
DNd	inch(mm)	5.00(125)	5.00(125)	5.00(125)	5.00(125)
a	inch(mm)	5.51(140)	5.51(140)	5.51(140)	5.51(140)
h2	inch(mm)	13.98(355)	13.98(355)	13.98(355)	13.98(355)
L	inch(mm)	58.90(1496)	58.90(1496)	60.00(1524)	60.98(1549)
l1	inch(mm)	62.99(1600)	62.99(1600)	62.99(1600)	62.99(1600)
l2	inch(mm)	10.63(270)	10.63(270)	10.63(270)	10.63(270)
l3	inch(mm)	41.73(1060)	41.73(1060)	41.73(1060)	41.73(1060)
b1	inch(mm)	20.87(530)	20.87(530)	20.87(530)	20.87(530)
b2	inch(mm)	25.98(660)	25.98(660)	25.98(660)	25.98(660)
b3	inch(mm)	23.62(600)	23.62(600)	23.62(600)	23.62(600)
d	inch(mm)	1.10(28)	1.10(28)	1.10(28)	1.10(28)
a2	inch(mm)	4.33(110)	4.33(110)	4.33(110)	4.33(110)
h	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
h3	inch(mm)	14.96(380)	14.96(380)	14.96(380)	14.96(380)
h4	inch(mm)	25.08(637)	25.08(637)	26.14(664)	26.14(664)
Base frame no.		8	8	8	8
Net Weight	lbs(kg)	1092(497)	1141(519)	1238(563)	1342(610)
Gross Weight	lbs(kg)	1385(630)	1434(652)	1531(696)	1635(743)
Volume	ft³(m³)	52.05(1.474)	52.05(1.474)	52.05(1.474)	52.05(1.474)

Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

Performance curves

TBS 125-400 4-pole

Single-stage bare shaft end-suction pumps



Technical data

Power	(hp)	100	125	150	200
	(kw)	75	90	110	150
Frame		405T	444T	445T	505T
ANSI flange		125	125	125	250
DNs	inch(mm)	6.00(150)	6.00(150)	6.00(150)	6.00(150)
DNd	inch(mm)	5.00(125)	5.00(125)	5.00(125)	5.00(125)
a	inch(mm)	5.51(140)	5.51(140)	5.51(140)	5.51(140)
h2	inch(mm)	15.75(400)	15.75(400)	15.75(400)	15.75(400)
L	inch(mm)	65.04(1652)	65.59(1666)	69.33(1761)	77.09(1958)
l1	inch(mm)	62.99(1600)	70.87(1800)	70.87(1800)	70.87(1800)
l2	inch(mm)	10.63(270)	11.81(300)	11.81(300)	11.81(300)
l3	inch(mm)	41.73(1060)	47.24(1200)	47.24(1200)	47.24(1200)
b1	inch(mm)	20.87(530)	23.62(600)	23.62(600)	23.62(600)
b2	inch(mm)	25.98(660)	28.74(730)	28.74(730)	28.74(730)
b3	inch(mm)	23.62(600)	26.38(670)	26.38(670)	26.38(670)
d	inch(mm)	1.10(28)	1.10(28)	1.10(28)	1.10(28)
a2	inch(mm)	4.33(110)	4.33(110)	4.33(110)	4.33(110)
h	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
h3	inch(mm)	16.34(415)	16.34(415)	16.34(415)	16.34(415)
h4	inch(mm)	28.82(732)	30.31(770)	30.31(770)	33.86(860)
Base frame no.		8	9	9	9
Net Weight	lbs(kg)	1797(817)	2182(992)	2565(1166)	2717(1235)
Gross Weight	lbs(kg)	2090(950)	2534(1152)	2917(1326)	3069(1395)
Volume	ft³(m³)	52.05(1.474)	68.78(1.948)	68.78(1.948)	68.78(1.948)

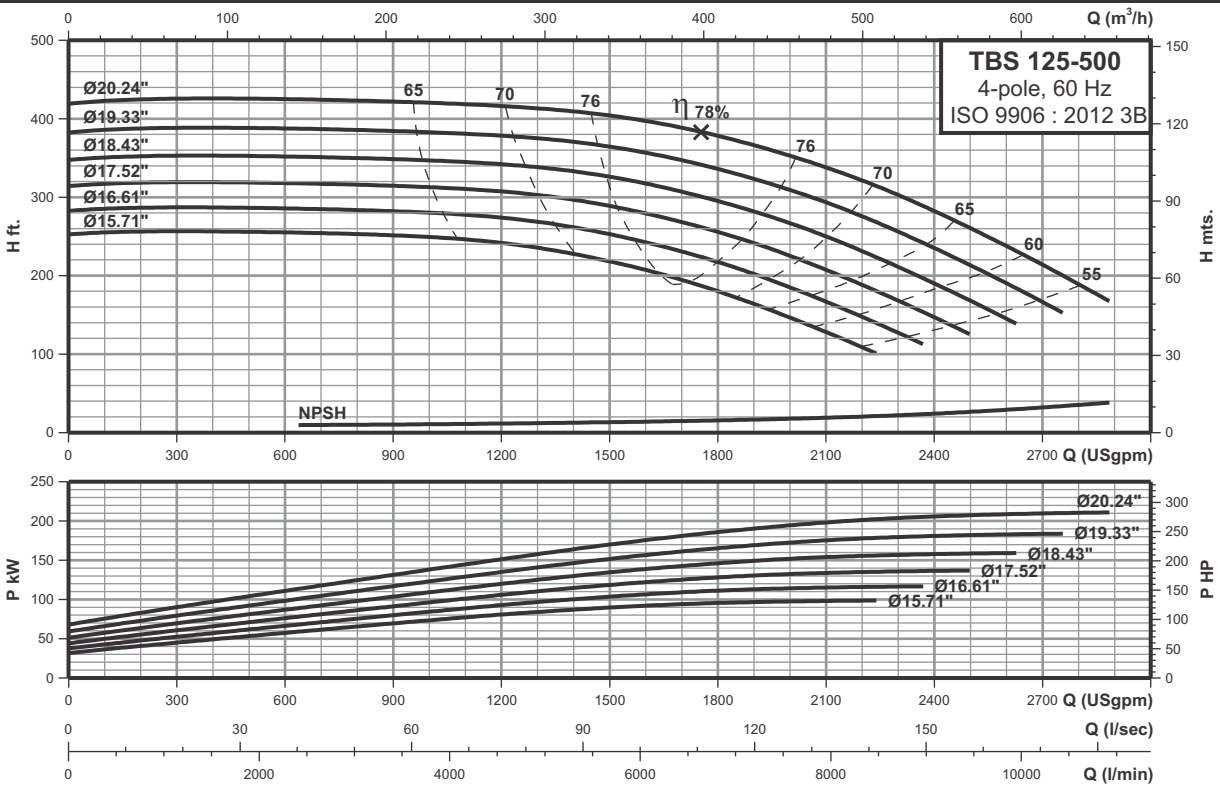
Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

Performance curves

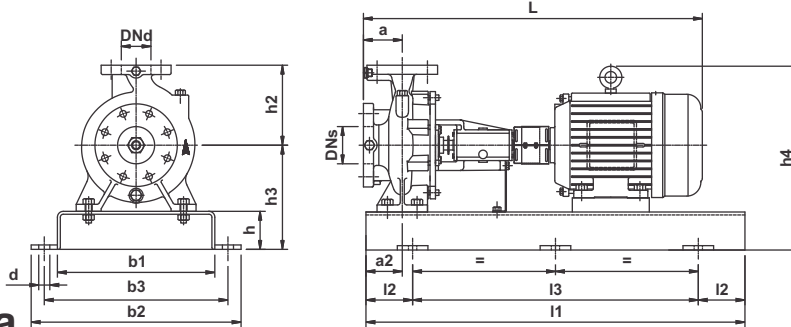
TBS 125-500

Single-stage bare shaft end-suction pumps

4-pole



4 POLE



Technical data

Power	(hp)	150	200	250	300
	(kw)	110	150	185	220
Frame		445T	505T	505T	587T
ANSI flange		125	250	250	250
DNs	inch(mm)	6.00(150)	6.00(150)	6.00(150)	6.00(150)
DNd	inch(mm)	5.00(125)	5.00(125)	5.00(125)	5.00(125)
a	inch(mm)	7.09(180)	7.09(180)	7.09(180)	7.09(180)
h2	inch(mm)	19.69(500)	19.69(500)	19.69(500)	19.69(500)
L	inch(mm)	76.46(1942)	84.17(2138)	84.17(2138)	94.72(2406)
l1	inch(mm)	78.74(2000)	78.74(2000)	78.74(2000)	78.74(2000)
l2	inch(mm)	12.99(330)	12.99(330)	12.99(330)	12.99(330)
l3	inch(mm)	52.76(1340)	52.76(1340)	52.76(1340)	52.76(1340)
b1	inch(mm)	29.53(750)	29.53(750)	29.53(750)	29.53(750)
b2	inch(mm)	35.04(890)	35.04(890)	35.04(890)	35.04(890)
b3	inch(mm)	32.68(830)	32.68(830)	32.68(830)	32.68(830)
d	inch(mm)	1.10(28)	1.10(28)	1.10(28)	1.10(28)
a2	inch(mm)	4.33(110)	4.33(110)	4.33(110)	4.33(110)
h	inch(mm)	5.12(130)	5.12(130)	5.12(130)	5.12(130)
h3	inch(mm)	20.87(530)	20.87(530)	20.87(530)	20.87(530)
h4	inch(mm)	37.20(945)	38.39(975)	38.39(975)	41.14(1045)
Base frame no.		10	10	10	10
Net Weight	lbs(kg)	3335(1516)	3480(1582)	3687(1676)	4811(2187)
Gross Weight	lbs(kg)	3885(1766)	4030(1832)	4237(1926)	5361(2437)
Volume	ft³(m³)	107.18(3.035)	107.18(3.035)	107.18(3.035)	107.18(3.035)

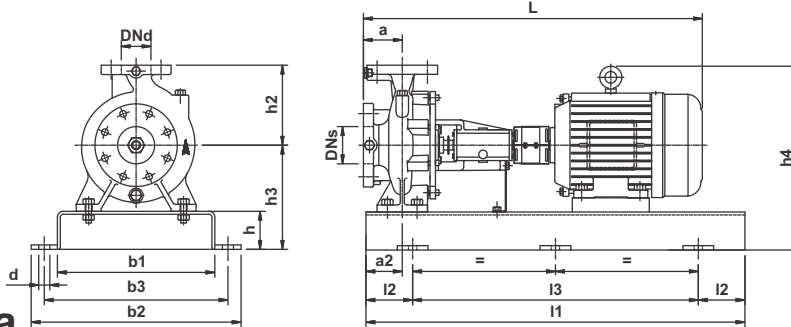
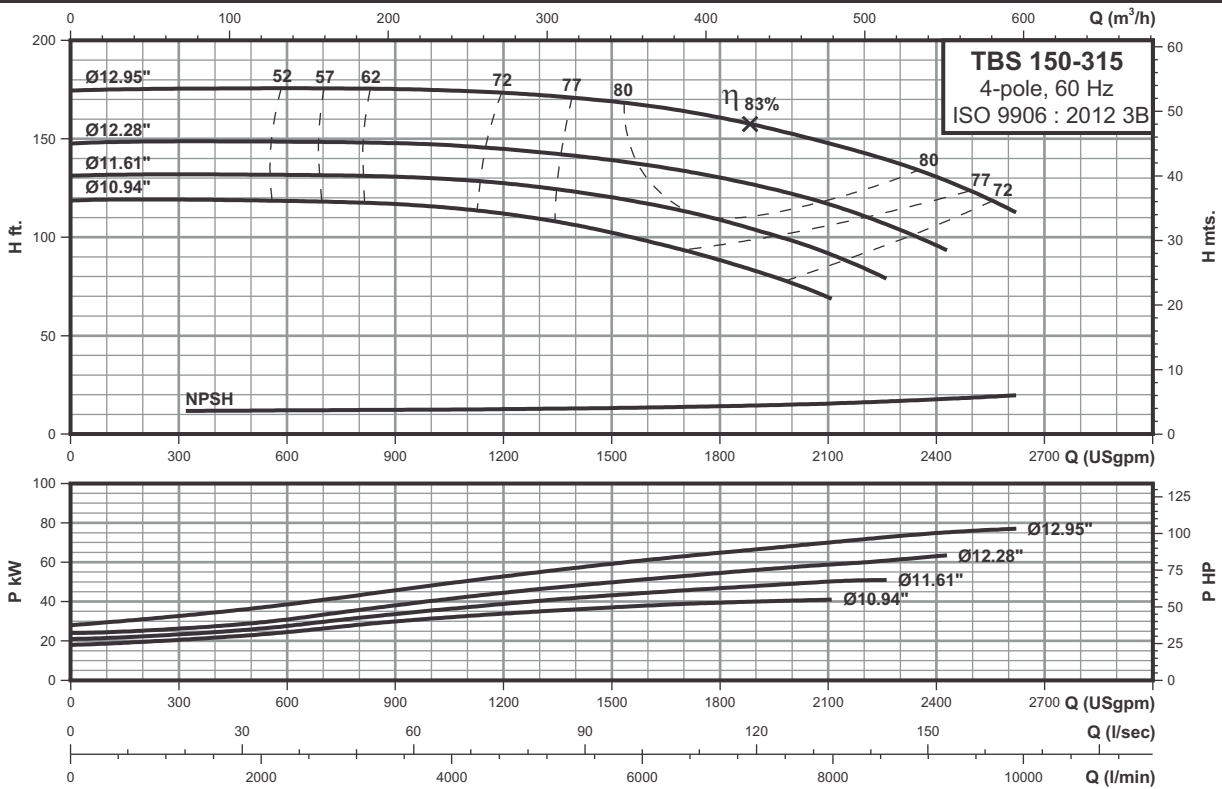
Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

Performance curves

TBS 150-315

Single-stage bare shaft end-suction pumps

4-pole



Technical data

Power	(hp)	50	60	75	100
	(kw)	37	45	55	75
Frame		326T	364T	365T	405T
ANSI flange		125	125	125	125
DNs	inch(mm)	8.00(200)	8.00(200)	8.00(200)	8.00(200)
DNd	inch(mm)	6.00(150)	6.00(150)	6.00(150)	6.00(150)
a	inch(mm)	6.30(160)	6.30(160)	6.30(160)	6.30(160)
h2	inch(mm)	15.75(400)	15.75(400)	15.75(400)	15.75(400)
L	inch(mm)	59.69(1516)	60.79(1544)	61.77(1569)	62.83(1596)
l1	inch(mm)	70.87(1800)	70.87(1800)	70.87(1800)	70.87(1800)
l2	inch(mm)	11.81(300)	11.81(300)	11.81(300)	11.81(300)
l3	inch(mm)	47.24(1200)	47.24(1200)	47.24(1200)	47.24(1200)
b1	inch(mm)	23.62(600)	23.62(600)	23.62(600)	23.62(600)
b2	inch(mm)	28.74(730)	28.74(730)	28.74(730)	28.74(730)
b3	inch(mm)	26.38(670)	26.38(670)	26.38(670)	26.38(670)
d	inch(mm)	1.10(28)	1.10(28)	1.10(28)	1.10(28)
a2	inch(mm)	4.33(110)	4.33(110)	4.33(110)	4.33(110)
h	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
h3	inch(mm)	14.96(380)	14.96(380)	14.96(380)	14.96(380)
h4	inch(mm)	25.08(637)	26.14(664)	26.14(664)	27.44(697)
Base frame no.		9	9	9	9
Net Weight	lbs(kg)	1233(561)	1330(605)	1434(652)	1811(823)
Gross Weight	lbs(kg)	1585(721)	1682(765)	1786(812)	2163(983)
Volume	ft³(m³)	68.78(1.948)	68.78(1.948)	68.78(1.948)	68.78(1.948)

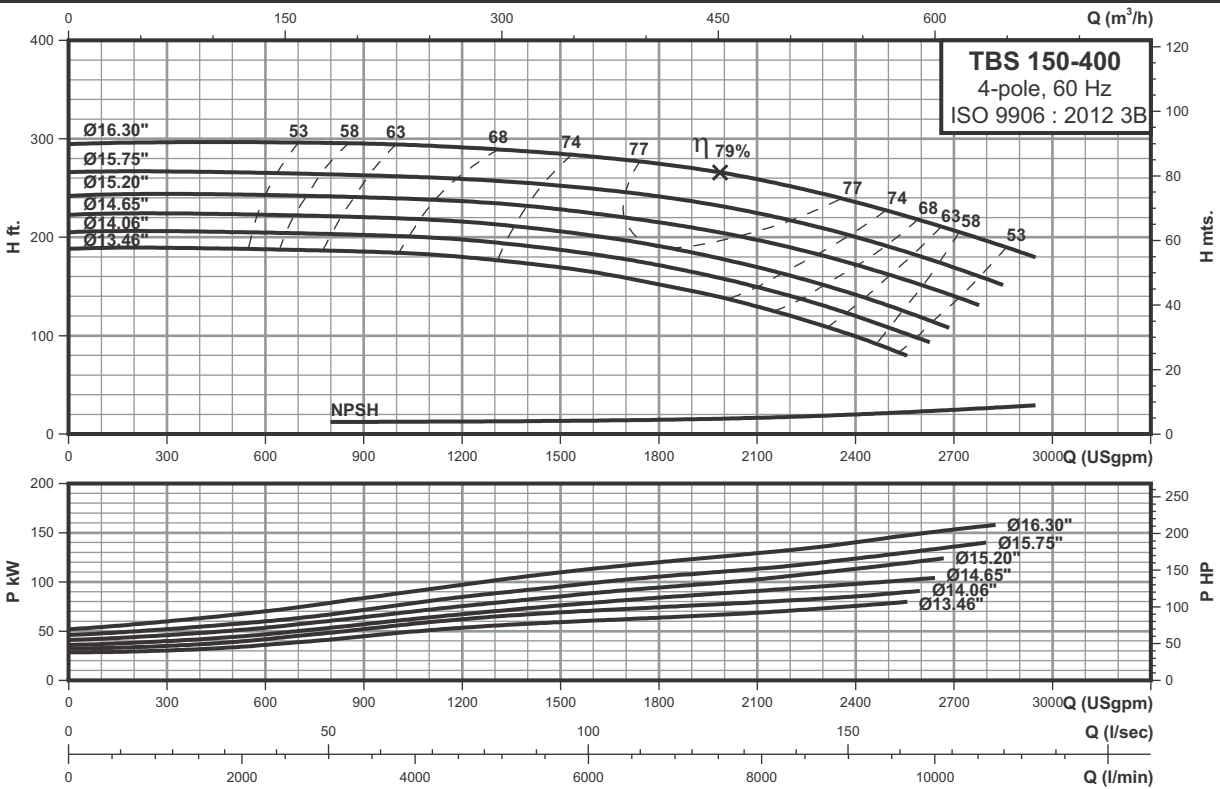
Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

Performance curves

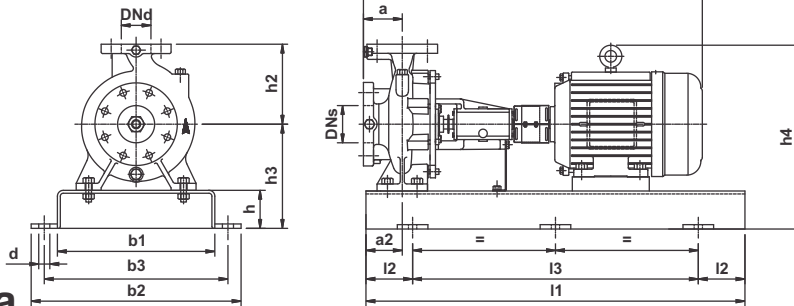
TBS 150-400

Single-stage bare shaft end-suction pumps

4-pole



4 POLE



Technical data

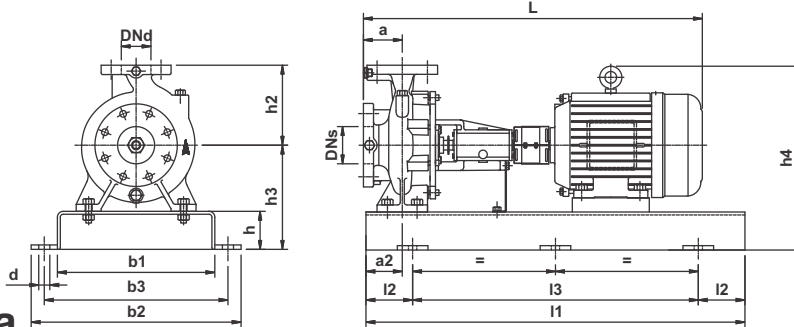
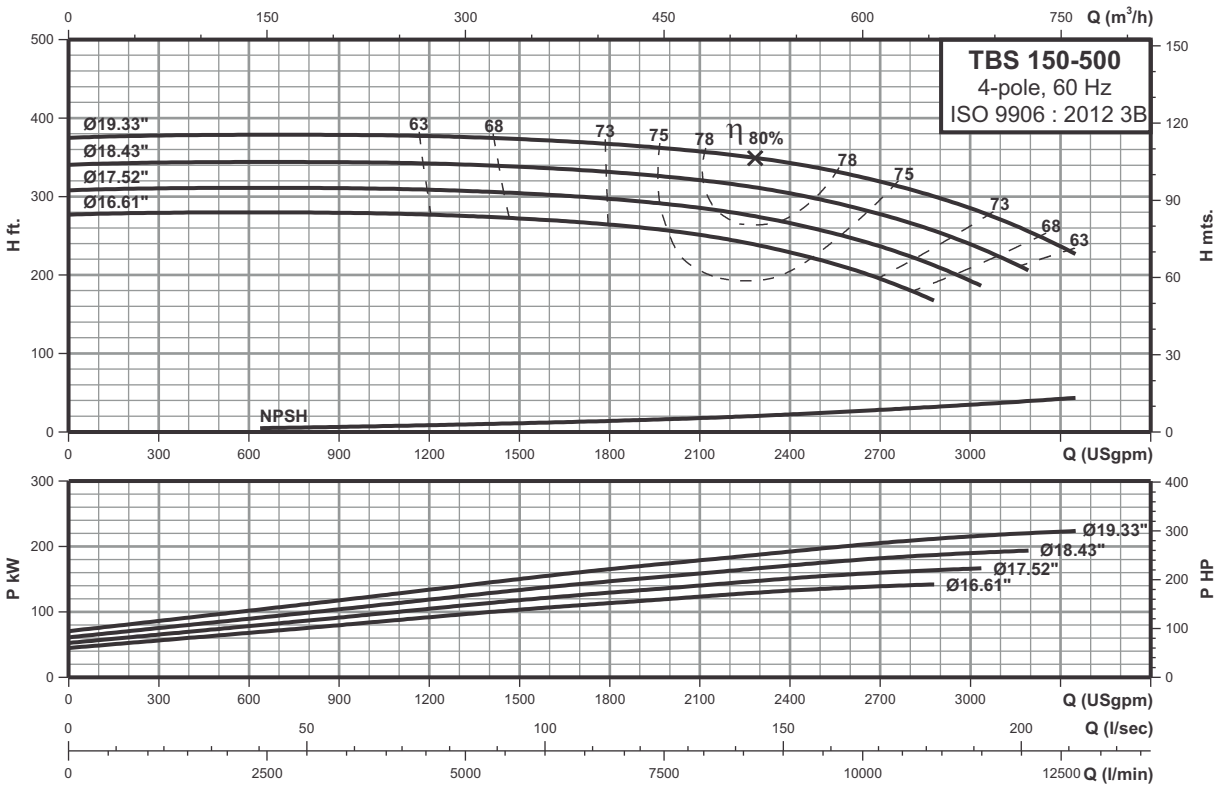
Power	(hp)	100	125	150	200
	(kw)	75	90	110	150
Frame		405T	444T	445T	505T
ANSI flange		125	125	125	250
DNs	inch(mm)	8.00(200)	8.00(200)	8.00(200)	8.00(200)
DNd	inch(mm)	6.00(150)	6.00(150)	6.00(150)	6.00(150)
a	inch(mm)	6.30(160)	6.30(160)	6.30(160)	6.30(160)
h2	inch(mm)	17.72(450)	17.72(450)	17.72(450)	17.72(450)
L	inch(mm)	65.83(1672)	66.42(1687)	70.16(1782)	77.87(1978)
l1	inch(mm)	70.87(1800)	70.87(1800)	70.87(1800)	70.87(1800)
l2	inch(mm)	11.81(300)	11.81(300)	11.81(300)	11.81(300)
l3	inch(mm)	47.24(1200)	47.24(1200)	47.24(1200)	47.24(1200)
b1	inch(mm)	23.62(600)	23.62(600)	23.62(600)	23.62(600)
b2	inch(mm)	28.74(730)	28.74(730)	28.74(730)	28.74(730)
b3	inch(mm)	26.38(670)	26.38(670)	26.38(670)	26.38(670)
d	inch(mm)	1.10(28)	1.10(28)	1.10(28)	1.10(28)
a2	inch(mm)	4.33(110)	4.33(110)	4.33(110)	4.33(110)
h	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
h3	inch(mm)	16.34(415)	16.34(415)	16.34(415)	16.34(415)
h4	inch(mm)	28.82(732)	30.31(770)	30.31(770)	33.86(860)
Base frame no.		9	9	9	9
Net Weight	lbs(kg)	1883(856)	2231(1014)	2614(1188)	2765(1257)
Gross Weight	lbs(kg)	2235(1016)	2583(1174)	2966(1348)	3117(1417)
Volume	ft³(m³)	68.78(1.948)	68.78(1.948)	68.78(1.948)	68.78(1.948)

Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

Performance curves

TBS 150-500 4-pole

Single-stage bare shaft end-suction pumps



Technical data

Power	(hp)	200	250	300
	(kw)	150	185	220
Frame		505T	505T	587T
ANSI flange		125	250	250
DNs	inch(mm)	8.00(200)	8.00(180)	8.00(180)
DNd	inch(mm)	6.00(150)	6.00(500)	6.00(500)
a	inch(mm)	7.09(180)	7.09(180)	7.09(180)
h2	inch(mm)	19.69(500)	19.69(500)	19.69(500)
L	inch(mm)	84.17(2138)	84.17(2138)	94.72(2138)
l1	inch(mm)	78.74(2000)	78.74(2000)	78.74(2000)
l2	inch(mm)	12.99(330)	12.99(330)	12.99(330)
l3	inch(mm)	52.76(1340)	52.76(1340)	52.76(1340)
b1	inch(mm)	23.62(600)	23.62(600)	23.62(600)
b2	inch(mm)	28.74(730)	28.74(730)	28.74(730)
b3	inch(mm)	26.38(670)	26.38(670)	26.38(670)
d	inch(mm)	1.10(28)	1.10(28)	1.10(28)
a2	inch(mm)	4.33(110)	4.33(110)	4.33(110)
h	inch(mm)	5.12(130)	5.12(130)	5.12(130)
h3	inch(mm)	20.87(530)	20.87(530)	20.87(530)
h4	inch(mm)	38.39(975)	38.39(975)	41.14(1045)
Base frame no.		10	10	10
Net Weight	lbs(kg)	3564(1617)	3771(1710)	4895(2220)
Gross Weight	lbs(kg)	4114(1866)	4321(1960)	5445(2470)
Volume	ft³(m³)	107(3.037)	107(3.037)	107(3.037)

Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

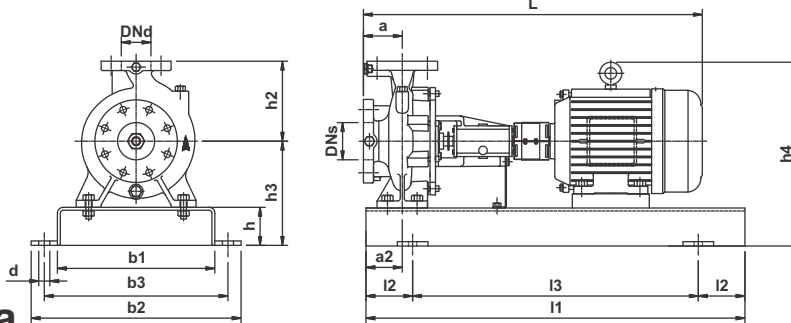
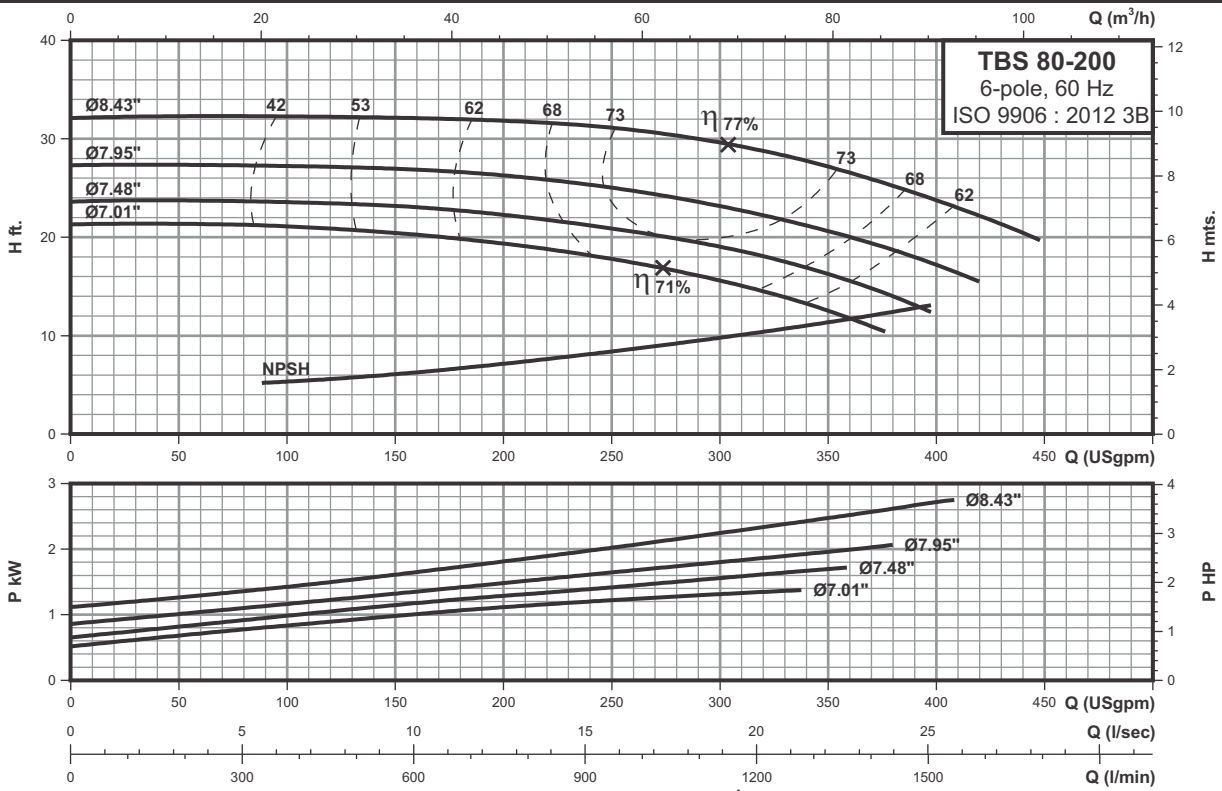
4 POLE

Performance curves

TBS 80-200

Single-stage bare shaft end-suction pumps

6-pole



Technical data

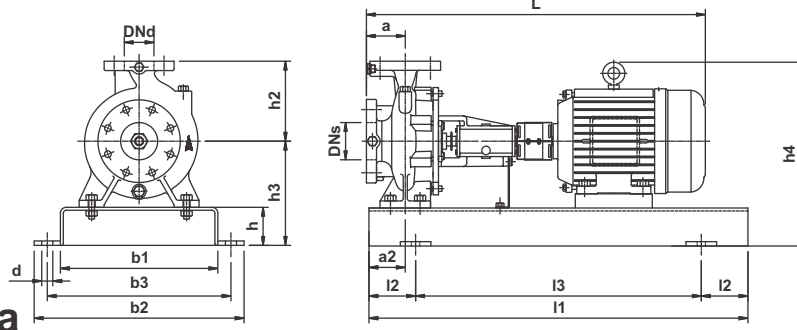
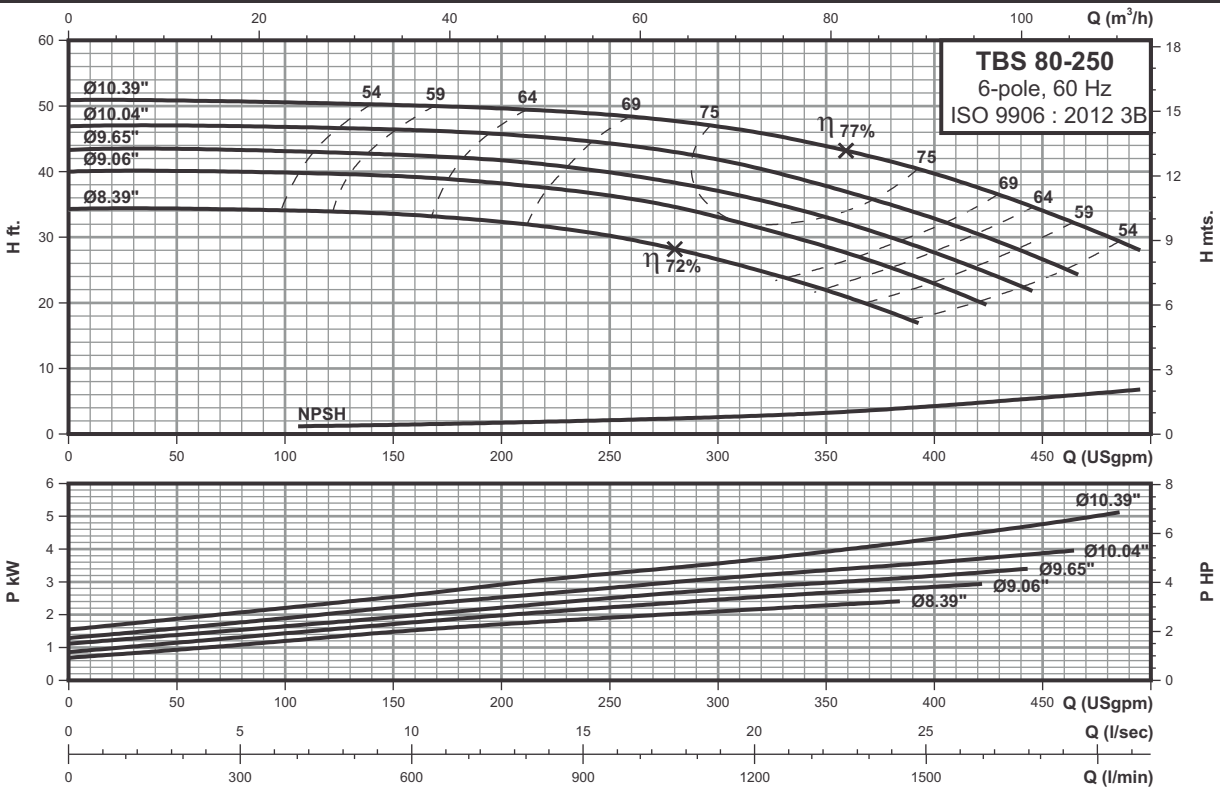
Power	(hp)	1.5	2	3	4
	(kw)	1.1	1.5	2.2	3
Frame		182T	184T	213T	215T
ANSI flange		125	125	125	125
DNs	inch(mm)	4.00(100)	4.00(100)	4.00(100)	4.00(100)
DNd	inch(mm)	3.00(80)	3.00(80)	3.00(80)	3.00(80)
a	inch(mm)	4.92(125)	4.92(125)	4.92(125)	4.92(125)
h2	inch(mm)	9.84(250)	9.84(250)	9.84(250)	9.84(250)
L	inch(mm)	40.20(1021)	40.20(1021)	44.09(1120)	44.09(1120)
l1	inch(mm)	44.09(1120)	44.09(1120)	44.09(1120)	44.09(1120)
l2	inch(mm)	7.48(190)	7.48(190)	7.48(190)	7.48(190)
l3	inch(mm)	29.13(740)	29.13(740)	29.13(740)	29.13(740)
b1	inch(mm)	14.96(380)	14.96(380)	14.96(380)	14.96(380)
b2	inch(mm)	19.29(490)	19.29(490)	19.29(490)	19.29(490)
b3	inch(mm)	17.32(440)	17.32(440)	17.32(440)	17.32(440)
d	inch(mm)	0.94(24)	0.94(24)	0.94(24)	0.94(24)
a2	inch(mm)	2.95(75)	2.95(75)	2.95(75)	2.95(75)
h	inch(mm)	3.15(80)	3.15(80)	3.15(80)	3.15(80)
h3	inch(mm)	10.24(260)	10.24(260)	10.24(260)	10.24(260)
h4	inch(mm)	16.38(416)	16.38(416)	17.56(446)	17.56(446)
Base frame no.		5	5	5	5
Net Weight	lbs(kg)	291(132)	295(134)	372(169)	381(173)
Gross Weight	lbs(kg)	460(209)	464(211)	541(246)	550(250)
Volume	ft³(m³)	22.70(0.643)	22.70(0.643)	22.70(0.643)	22.70(0.643)

Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

Performance curves

TBS 80-250 6-pole

Single-stage bare shaft end-suction pumps



Technical data

Power	(hp)	3	4	5	7.5
	(kw)	2.2	3	3.7	5.5
Frame		213T	215T	215T	254T
ANSI flange		125	125	125	125
DNs	inch(mm)	4.00(100)	4.00(100)	4.00(100)	4.00(100)
DNd	inch(mm)	3.00(80)	3.00(80)	3.00(80)	3.00(80)
a	inch(mm)	4.92(125)	4.92(125)	4.92(125)	4.92(125)
h2	inch(mm)	11.02(280)	11.02(280)	11.02(280)	11.02(280)
L	inch(mm)	43.94(1116)	43.94(1116)	43.94(1116)	47.48(1206)
l1	inch(mm)	49.21(1250)	49.21(1250)	49.21(1250)	49.21(1250)
l2	inch(mm)	8.07(205)	8.07(205)	8.07(205)	8.07(205)
l3	inch(mm)	33.07(840)	33.07(840)	33.07(840)	33.07(840)
b1	inch(mm)	16.93(430)	16.93(430)	16.93(430)	16.93(430)
b2	inch(mm)	21.26(540)	21.26(540)	21.26(540)	21.26(540)
b3	inch(mm)	19.29(490)	19.29(490)	19.29(490)	19.29(490)
d	inch(mm)	0.94(24)	0.94(24)	0.94(24)	0.94(24)
a2	inch(mm)	3.54(90)	3.54(90)	3.54(90)	3.54(90)
h	inch(mm)	3.15(80)	3.15(80)	3.15(80)	3.15(80)
h3	inch(mm)	11.02(280)	11.02(280)	11.02(280)	11.02(280)
h4	inch(mm)	18.35(466)	18.35(466)	18.35(466)	19.76(502)
Base frame no.		6	6	6	6
Net Weight	lbs(kg)	417(190)	426(194)	430(196)	482(219)
Gross Weight	lbs(kg)	655(298)	664(302)	668(304)	720(327)
Volume	ft³(m³)	38.10(1.079)	38.10(1.079)	38.10(1.079)	38.10(1.079)

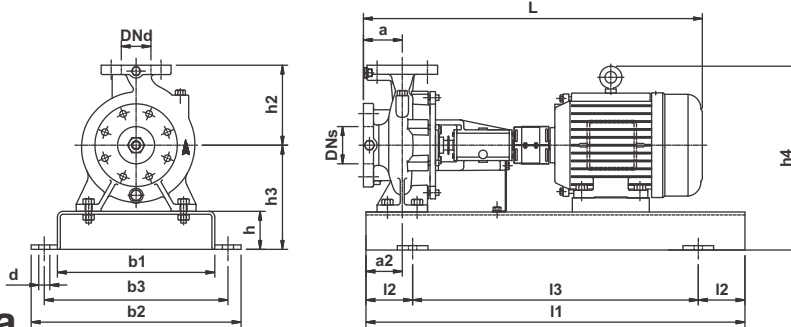
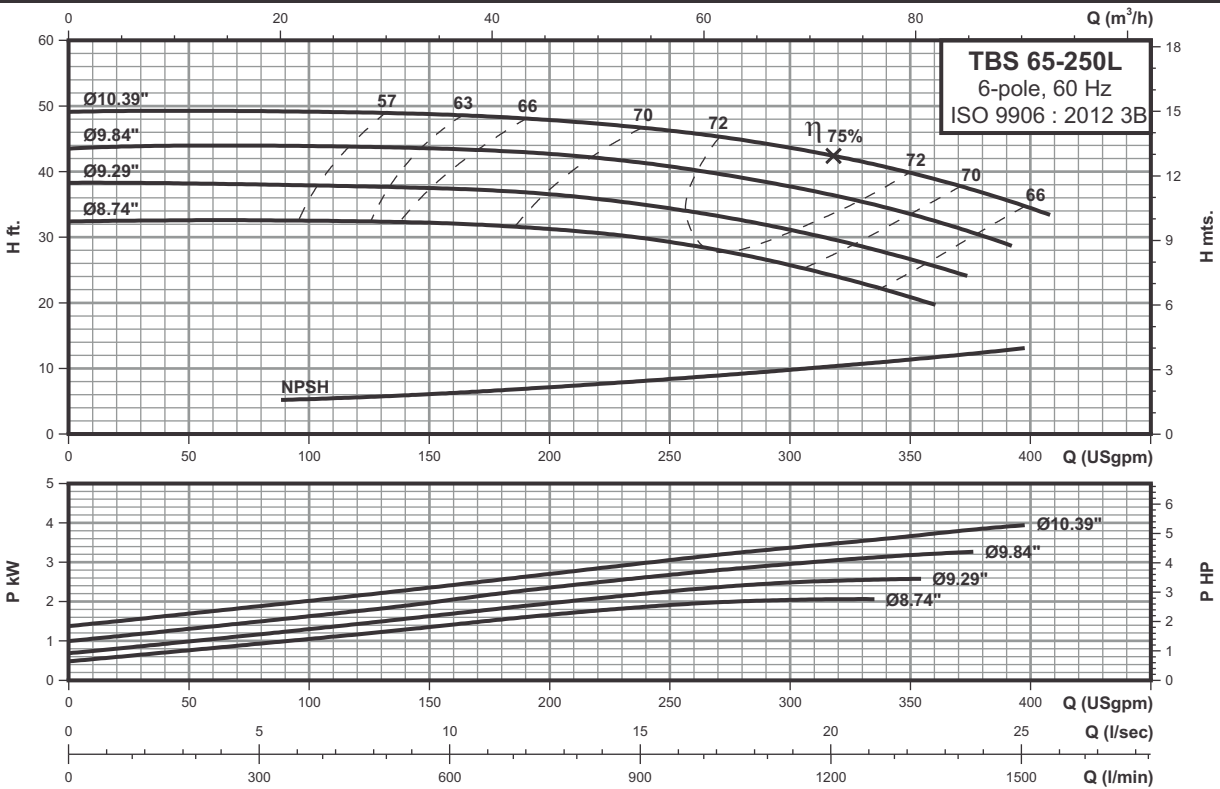
Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

Performance curves

TBS 65-250L

Single-stage bare shaft end-suction pumps

6-pole



Technical data

Power	(hp)	3	4	5
	(kw)	2.2	3	3.7
Frame		213T	215T	215T
ANSI flange		125	125	125
DNs	inch(mm)	4.00(100)	4.00(100)	4.00(100)
DNd	inch(mm)	2.50(65)	2.50(65)	2.50(65)
a	inch(mm)	3.94(100)	3.94(100)	3.94(100)
h2	inch(mm)	9.84(250)	9.84(250)	9.84(250)
L	inch(mm)	42.95(1091)	43.11(1095)	43.11(1095)
l1	inch(mm)	44.09(1120)	44.09(1120)	44.09(1120)
l2	inch(mm)	7.48(190)	7.48(190)	7.48(190)
l3	inch(mm)	29.13(740)	29.13(740)	29.13(740)
b1	inch(mm)	14.96(380)	14.96(380)	14.96(380)
b2	inch(mm)	19.29(490)	19.29(490)	19.29(490)
b3	inch(mm)	17.32(440)	17.32(440)	17.32(440)
d	inch(mm)	0.94(24)	0.94(24)	0.94(24)
a2	inch(mm)	3.54(90)	3.54(90)	3.54(90)
h	inch(mm)	3.15(80)	3.15(80)	3.15(80)
h3	inch(mm)	11.02(280)	11.02(280)	11.02(280)
h4	inch(mm)	18.35(466)	18.35(466)	18.35(466)
Base frame no.		5	5	5
Net Weight	lbs(kg)	390(177)	398(181)	403(183)
Gross Weight	lbs(kg)	559(254)	567(258)	572(260)
Volume	ft³(m³)	22.70(0.643)	22.70(0.643)	22.70(0.643)

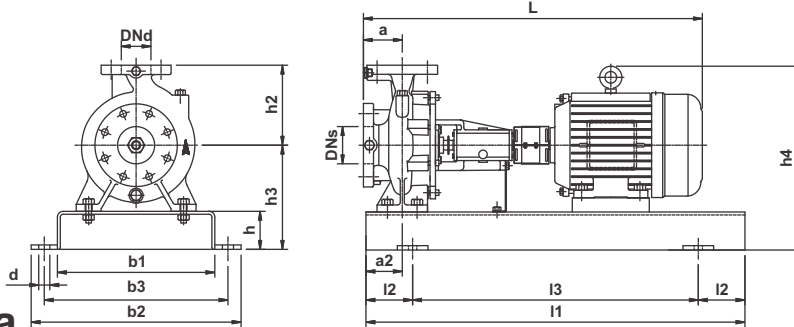
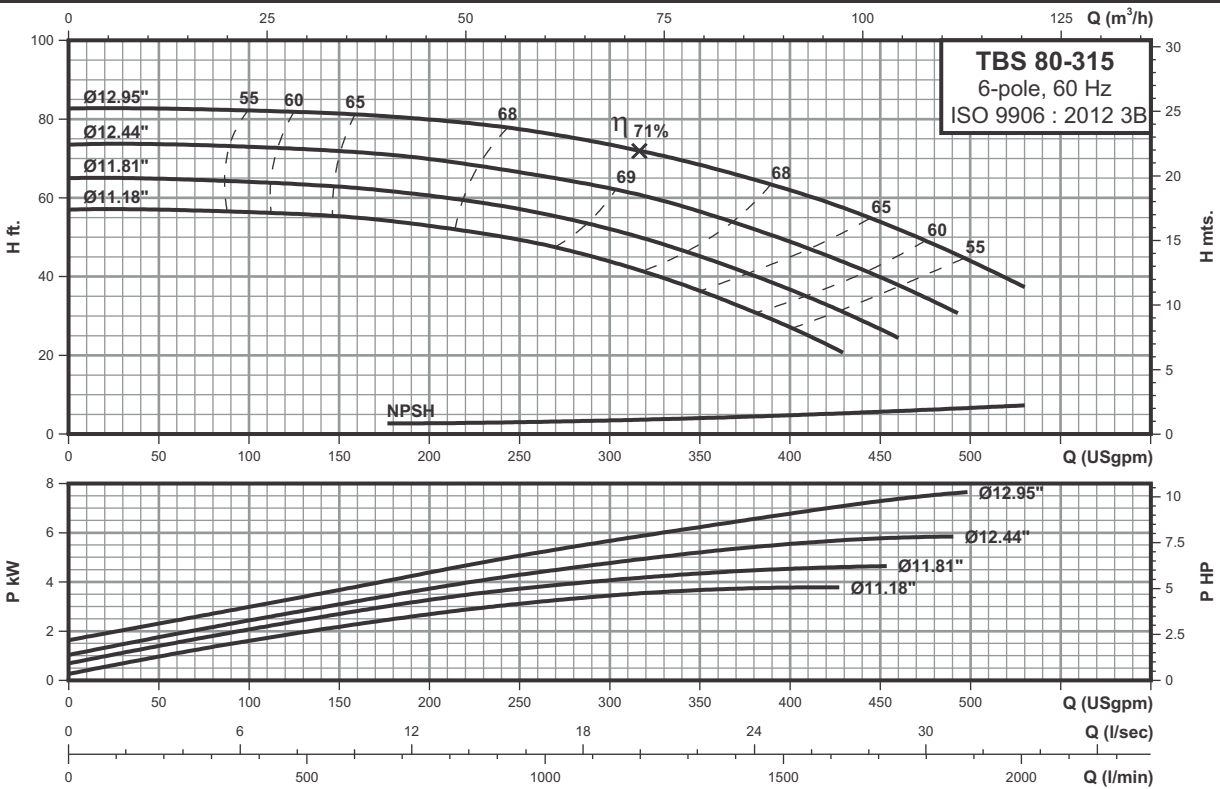
Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

Performance curves

TBS 80-315

Single-stage bare shaft end-suction pumps

6-pole



Technical data

Power	(hp)	5	7.5	10
	(kw)	3.7	5.5	7.5
Frame		215T	254T	256T
ANSI flange		125	125	125
DNs	inch(mm)	4.00(100)	4.00(100)	4.00(100)
DNd	inch(mm)	3.00(80)	3.00(80)	3.00(80)
a	inch(mm)	4.92(125)	4.92(125)	4.92(125)
h2	inch(mm)	12.40(315)	12.40(315)	12.40(315)
L	inch(mm)	44.09(1120)	47.48(1206)	49.13(1248)
l1	inch(mm)	49.21(1250)	49.21(1250)	49.21(1250)
l2	inch(mm)	8.07(205)	8.07(205)	8.07(205)
l3	inch(mm)	33.07(840)	33.07(840)	33.07(840)
b1	inch(mm)	16.93(430)	16.93(430)	16.93(430)
b2	inch(mm)	21.26(540)	21.26(540)	21.26(540)
b3	inch(mm)	19.29(490)	19.29(490)	19.29(490)
d	inch(mm)	0.94(24)	0.94(24)	0.94(24)
a2	inch(mm)	3.54(90)	3.54(90)	3.54(90)
h	inch(mm)	3.15(80)	3.15(80)	3.15(80)
h3	inch(mm)	12.99(330)	12.99(330)	13.78(350)
h4	inch(mm)	20.31(516)	21.73(552)	22.52(572)
Base frame no.		6	6	7
Net Weight	lbs(kg)	459(209)	510(232)	592(269)
Gross Weight	lbs(kg)	697(317)	748(340)	830(377)
Volume	ft³(m³)	38.10(1.079)	38.10(1.079)	38.10(1.079)

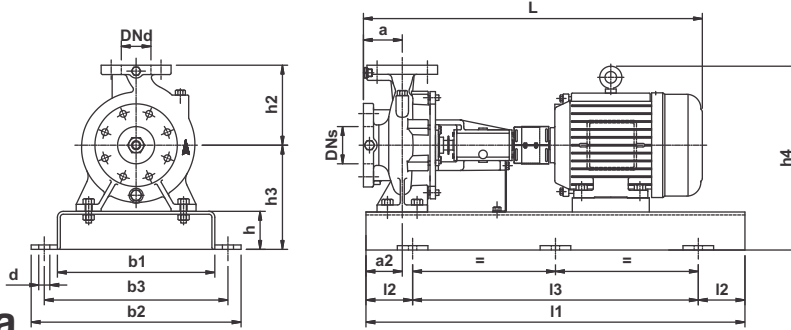
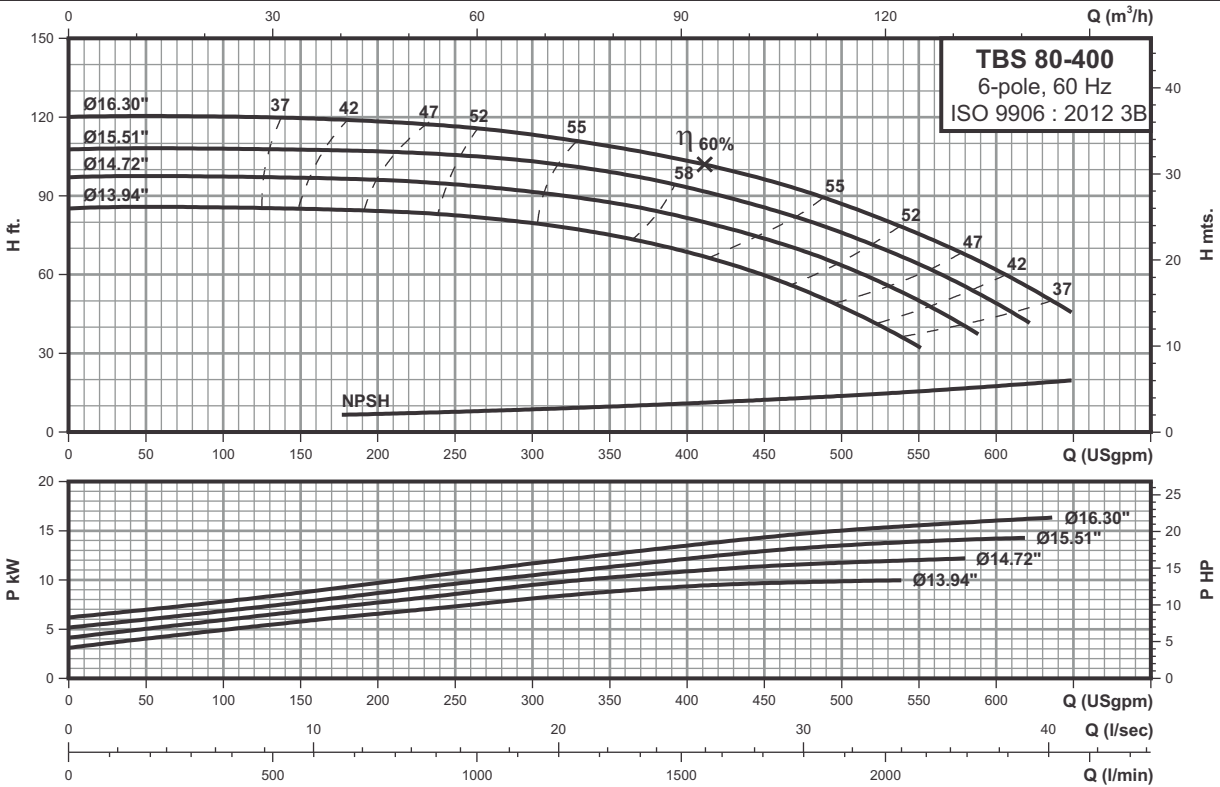
Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

Performance curves

TBS 80-400

Single-stage bare shaft end-suction pumps

6-pole



Technical data

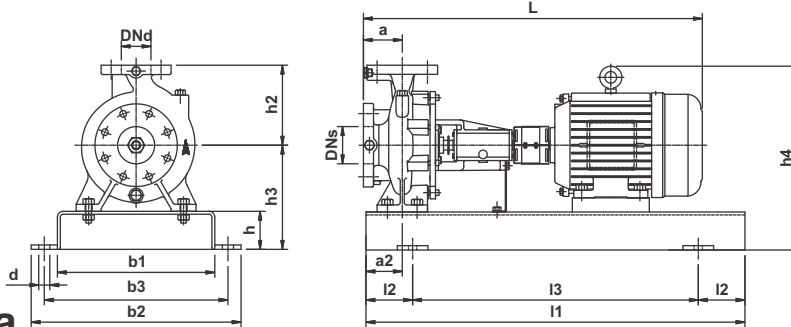
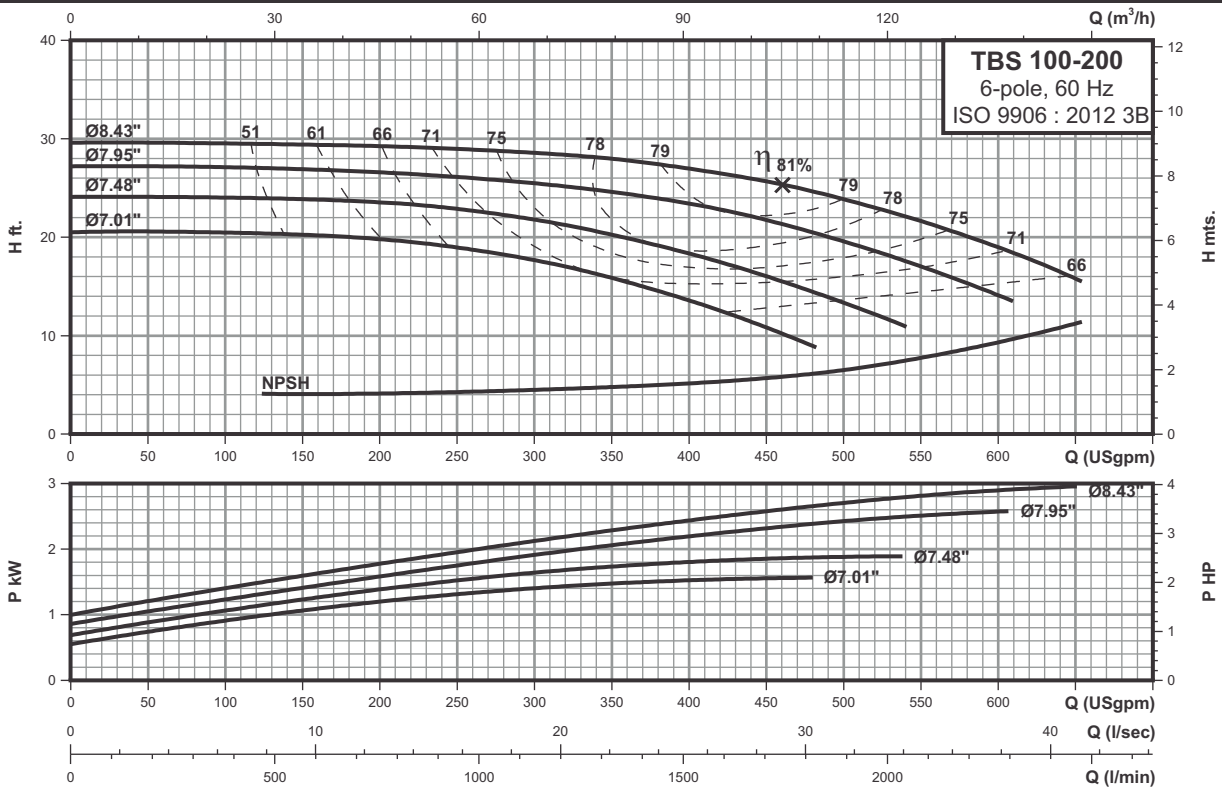
Power	(hp)	15	20	25
	(kw)	11	15	18.5
Frame		284T	286T	324T
ANSI flange		125	125	125
DNs	inch(mm)	4.00(100)	4.00(100)	4.00(100)
DNd	inch(mm)	3.00(80)	3.00(80)	3.00(80)
a	inch(mm)	5.51(140)	5.51(140)	5.51(140)
h2	inch(mm)	13.98(355)	13.98(355)	13.98(355)
L	inch(mm)	55.67(1414)	56.42(1433)	58.90(1496)
l1	inch(mm)	62.99(1600)	62.99(1600)	62.99(1600)
l2	inch(mm)	10.63(270)	10.63(270)	10.63(270)
l3	inch(mm)	41.73(1060)	41.73(1060)	41.73(1060)
b1	inch(mm)	20.87(530)	20.87(530)	20.87(530)
b2	inch(mm)	25.98(660)	25.98(660)	25.98(660)
b3	inch(mm)	23.62(600)	23.62(600)	23.62(600)
d	inch(mm)	1.10(28)	1.10(28)	1.10(28)
a2	inch(mm)	4.33(110)	4.33(110)	4.33(110)
h	inch(mm)	3.94(100)	3.94(100)	3.94(100)
h3	inch(mm)	14.96(380)	14.96(380)	14.96(380)
h4	inch(mm)	24.49(622)	24.49(622)	25.08(637)
Base frame no.		8	8	8
Net Weight	lbs(kg)	902(410)	963(438)	1078(490)
Gross Weight	lbs(kg)	1195(543)	1256(571)	1371(623)
Volume	ft³(m³)	52.05(1.474)	52.05(1.474)	52.05(1.474)

Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

Performance curves

Single-stage bare shaft end-suction pumps

TBS 100-200 6-pole



Technical data

		2	3	4
Power	(hp)	2	3	4
	(kw)	1.5	2.2	3
Frame		184T	213T	215T
ANSI flange		125	125	125
DNs	inch(mm)	5.00(125)	5.00(125)	5.00(125)
DNd	inch(mm)	4.00(100)	4.00(100)	4.00(100)
a	inch(mm)	4.92(125)	4.92(125)	4.92(125)
h2	inch(mm)	11.02(280)	11.02(280)	11.02(280)
L	inch(mm)	40.20(1021)	43.94(1116)	44.09(1120)
l1	inch(mm)	44.09(1120)	44.09(1120)	44.09(1120)
l2	inch(mm)	7.48(190)	7.48(190)	7.48(190)
l3	inch(mm)	29.13(740)	29.13(740)	29.13(740)
b1	inch(mm)	14.96(380)	14.96(380)	14.96(380)
b2	inch(mm)	19.29(490)	19.29(490)	19.29(490)
b3	inch(mm)	17.32(440)	17.32(440)	17.32(440)
d	inch(mm)	0.94(24)	0.94(24)	0.94(24)
a2	inch(mm)	3.54(90)	3.54(90)	3.54(90)
h	inch(mm)	3.15(80)	3.15(80)	3.15(80)
h3	inch(mm)	11.02(280)	11.02(280)	11.02(280)
h4	inch(mm)	17.17(436)	18.35(466)	18.35(466)
Base frame no.		5	5	5
Net Weight	lbs(kg)	319(145)	396(180)	405(184)
Gross Weight	lbs(kg)	488(222)	565(257)	574(261)
Volume	ft³(m³)	22.70(0.643)	22.70(0.643)	22.70(0.643)

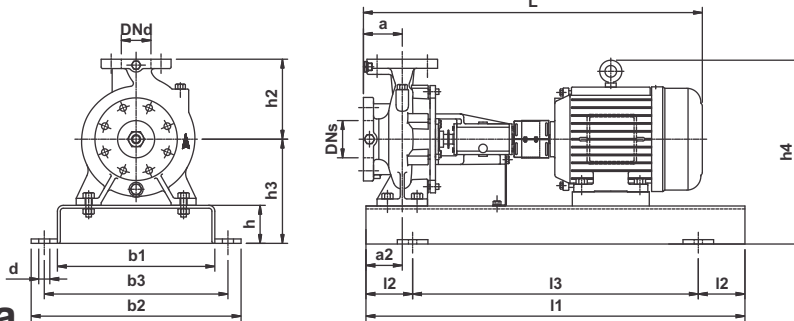
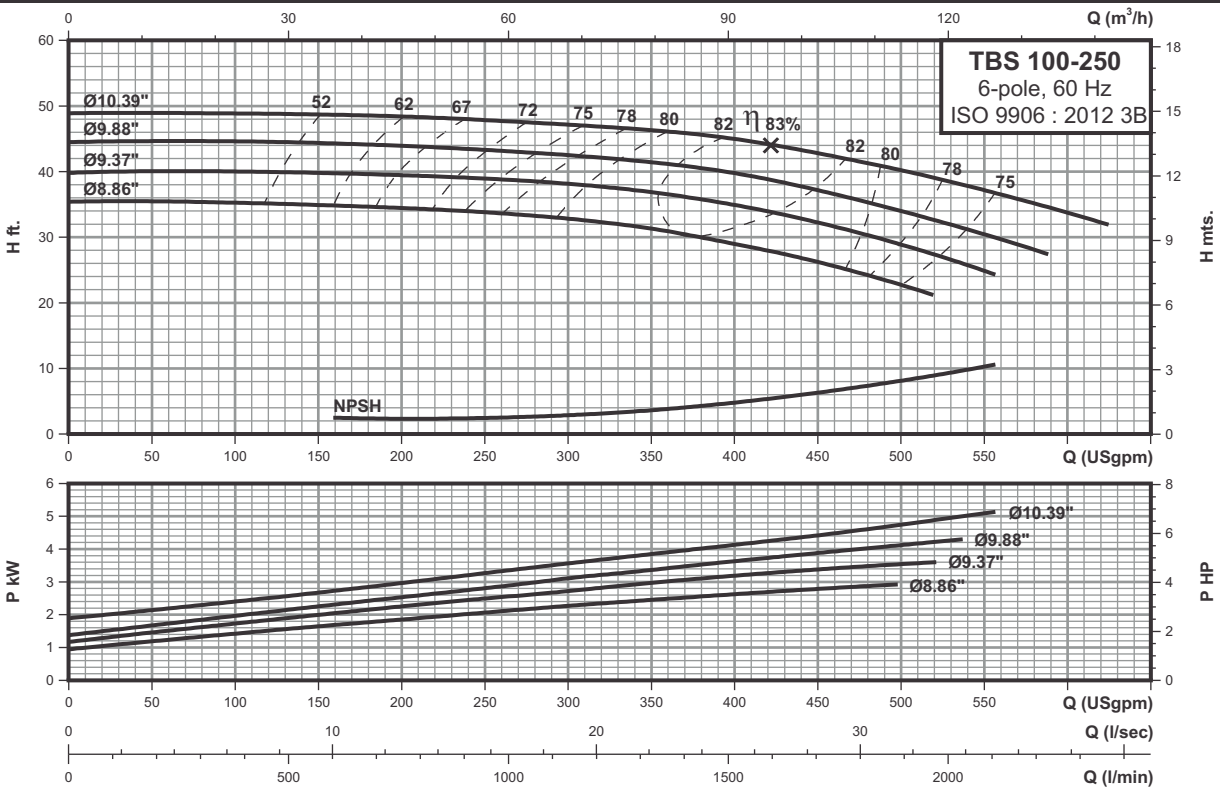
Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

Performance curves

TBS 100-250

Single-stage bare shaft end-suction pumps

6-pole



Technical data

Power	(hp)	4	5	7.5
	(kw)	3	3.7	5.5
Frame		215T	215T	254T
ANSI flange		125	125	125
DNs	inch(mm)	5.00(125)	5.00(125)	5.00(125)
DNd	inch(mm)	4.00(100)	4.00(100)	4.00(100)
a	inch(mm)	5.51(140)	5.51(140)	5.51(140)
h2	inch(mm)	11.02(280)	11.02(280)	11.02(280)
L	inch(mm)	44.69(1135)	44.69(1135)	48.07(1221)
l1	inch(mm)	49.21(1250)	49.21(1250)	49.21(1250)
l2	inch(mm)	8.07(205)	8.07(205)	8.07(205)
l3	inch(mm)	33.07(840)	33.07(840)	33.07(840)
b1	inch(mm)	16.93(430)	16.93(430)	16.93(430)
b2	inch(mm)	21.26(540)	21.26(540)	21.26(540)
b3	inch(mm)	19.29(490)	19.29(490)	19.29(490)
d	inch(mm)	0.94(24)	0.94(24)	0.94(24)
a2	inch(mm)	3.54(90)	3.54(90)	3.54(90)
h	inch(mm)	3.15(80)	3.15(80)	3.15(80)
h3	inch(mm)	12.01(305)	12.01(305)	12.01(305)
h4	inch(mm)	19.33(491)	19.33(491)	20.75(527)
Base frame no.		6	6	6
Net Weight	lbs(kg)	443(202)	448(204)	499(227)
Gross Weight	lbs(kg)	681(310)	686(312)	737(335)
Volume	ft³(m³)	38.10(1.079)	38.10(1.079)	38.10(1.079)

Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

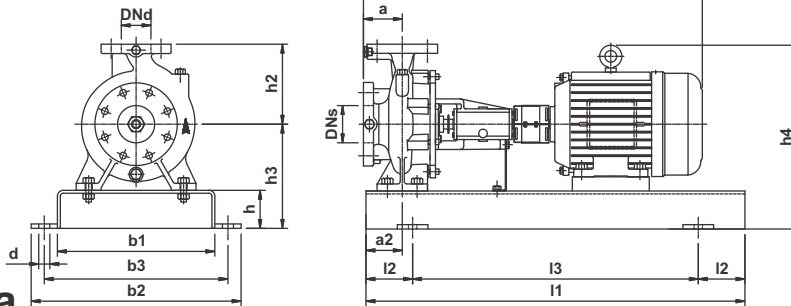
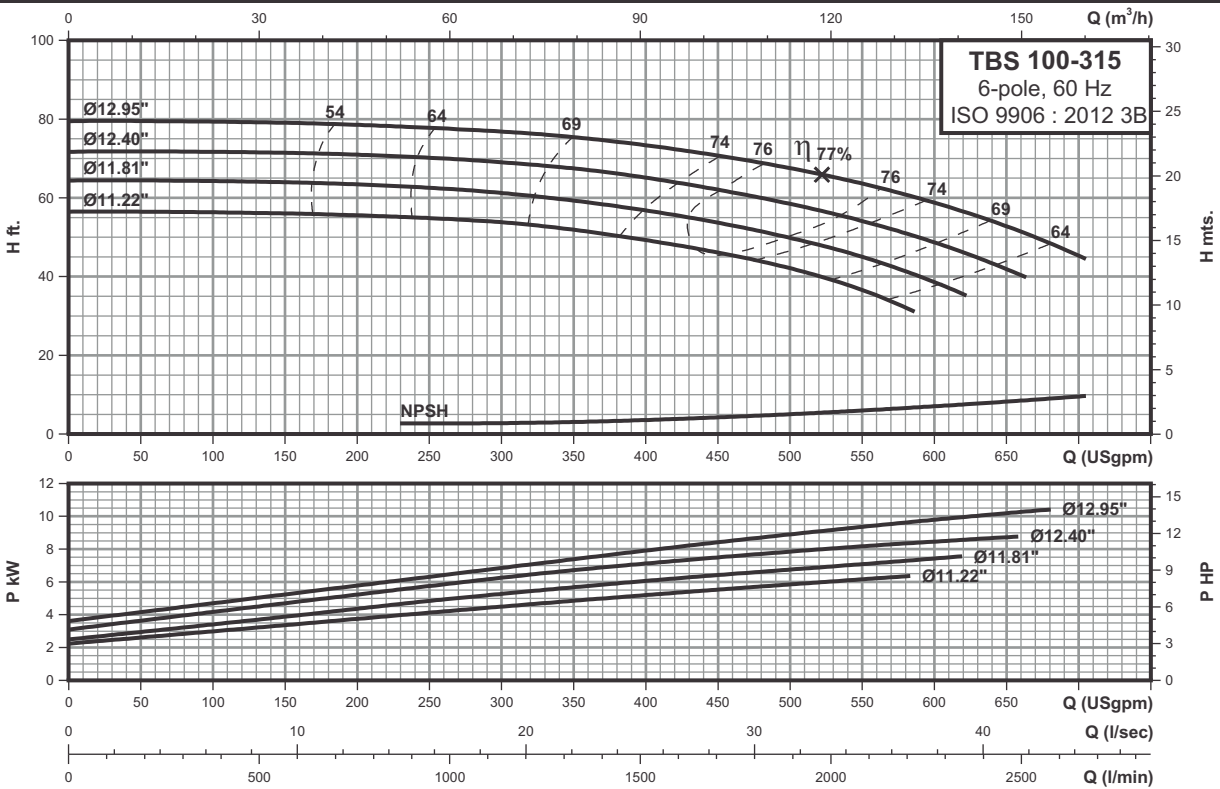
6 POLE

Performance curves

TBS 100-315

Single-stage bare shaft end-suction pumps

6-pole



Technical data

Power	(hp)	7.5	10	15
	(kw)	5.5	7.5	11
Frame		254T	256T	284T
ANSI flange		125	125	125
DNs	inch(mm)	5.00(125)	5.00(125)	5.00(125)
DNd	inch(mm)	4.00(100)	4.00(100)	4.00(100)
a	inch(mm)	5.51(140)	5.51(140)	5.51(140)
h2	inch(mm)	12.40(315)	12.40(315)	12.40(315)
L	inch(mm)	18.07(1221)	49.72(1263)	53.31(1354)
l1	inch(mm)	49.21(1250)	55.12(1400)	55.12(1400)
l2	inch(mm)	8.07(205)	9.06(230)	9.06(230)
l3	inch(mm)	33.07(840)	37.01(940)	37.01(940)
b1	inch(mm)	16.93(430)	18.90(480)	18.90(480)
b2	inch(mm)	21.26(540)	24.02(610)	24.02(610)
b3	inch(mm)	19.29(490)	21.65(550)	21.65(550)
d	inch(mm)	0.94(24)	1.10(28)	1.10(28)
a2	inch(mm)	3.54(90)	3.54(90)	3.54(90)
h	inch(mm)	3.15(80)	3.94(100)	3.94(100)
h3	inch(mm)	13.78(350)	13.78(350)	13.78(350)
h4	inch(mm)	21.73(552)	22.52(572)	23.31(592)
Base frame no.		6	7	7
Net Weight	lbs(kg)	530(241)	612(278)	782(356)
Gross Weight	lbs(kg)	768(349)	850(386)	1020(464)
Volume	ft³(m³)	38.10(1.079)	38.10(1.079)	38.10(1.079)

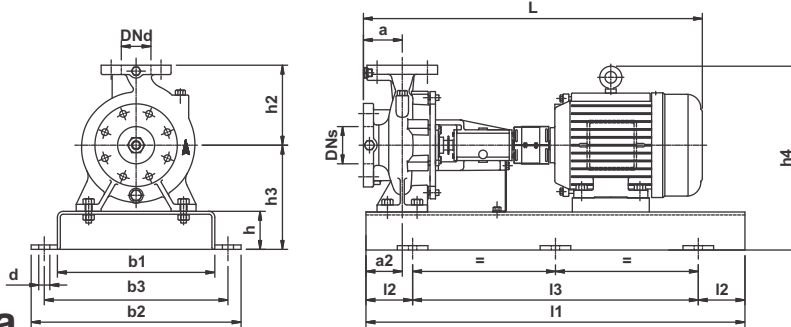
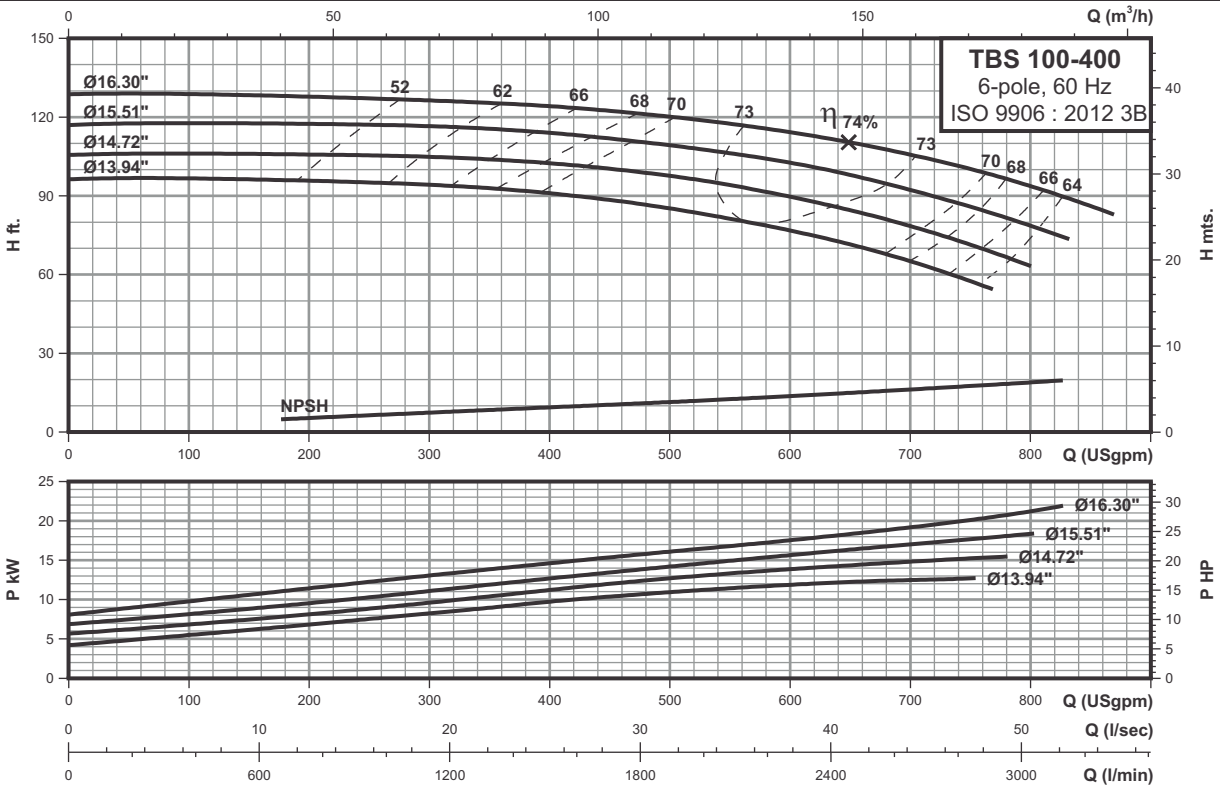
Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

Performance curves

TBS 100-400

Single-stage bare shaft end-suction pumps

6-pole



Technical data

Power	(hp)	15	20	25	30
	(kw)	11	15	18.5	22
Frame		284T	286T	324T	326T
ANSI flange		125	125	125	125
DNs	inch(mm)	5.00(125)	5.00(125)	5.00(125)	5.00(125)
DNd	inch(mm)	4.00(100)	4.00(100)	4.00(100)	4.00(100)
a	inch(mm)	5.51(140)	5.51(140)	5.51(140)	5.51(140)
h2	inch(mm)	13.98(355)	13.98(355)	13.98(355)	13.98(355)
L	inch(mm)	55.67(1414)	56.42(1433)	58.90(1496)	58.90(1496)
l1	inch(mm)	62.99(1600)	62.99(1600)	62.99(1600)	62.99(1600)
l2	inch(mm)	10.63(270)	10.63(270)	10.63(270)	10.63(270)
l3	inch(mm)	41.73(1060)	41.73(1060)	41.73(1060)	41.73(1060)
b1	inch(mm)	20.87(530)	20.87(530)	20.87(530)	20.87(530)
b2	inch(mm)	25.98(660)	25.98(660)	25.98(660)	25.98(660)
b3	inch(mm)	23.62(600)	23.62(600)	23.62(600)	23.62(600)
d	inch(mm)	1.10(28)	1.10(28)	1.10(28)	1.10(28)
a2	inch(mm)	4.33(110)	4.33(110)	4.33(110)	4.33(110)
h	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
h3	inch(mm)	14.96(380)	14.96(380)	14.96(380)	14.96(380)
h4	inch(mm)	24.49(622)	24.49(622)	25.08(637)	25.08(637)
Base frame no.		8	8	8	8
Net Weight	lbs(kg)	902(410)	963(438)	1078(490)	1103(502)
Gross Weight	lbs(kg)	1195(543)	1256(571)	1371(623)	1396(635)
Volume	ft³(m³)	52.05(1.474)	52.05(1.474)	52.05(1.474)	52.05(1.474)

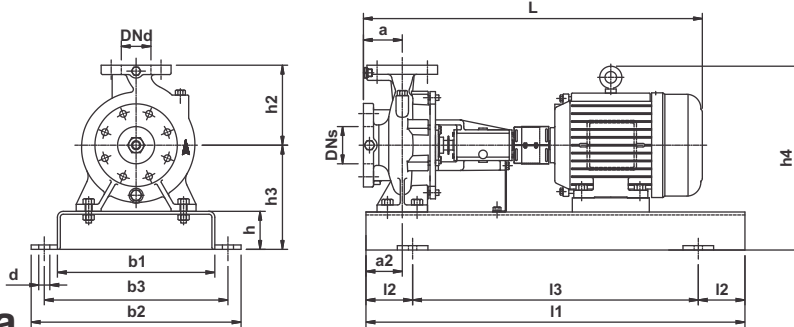
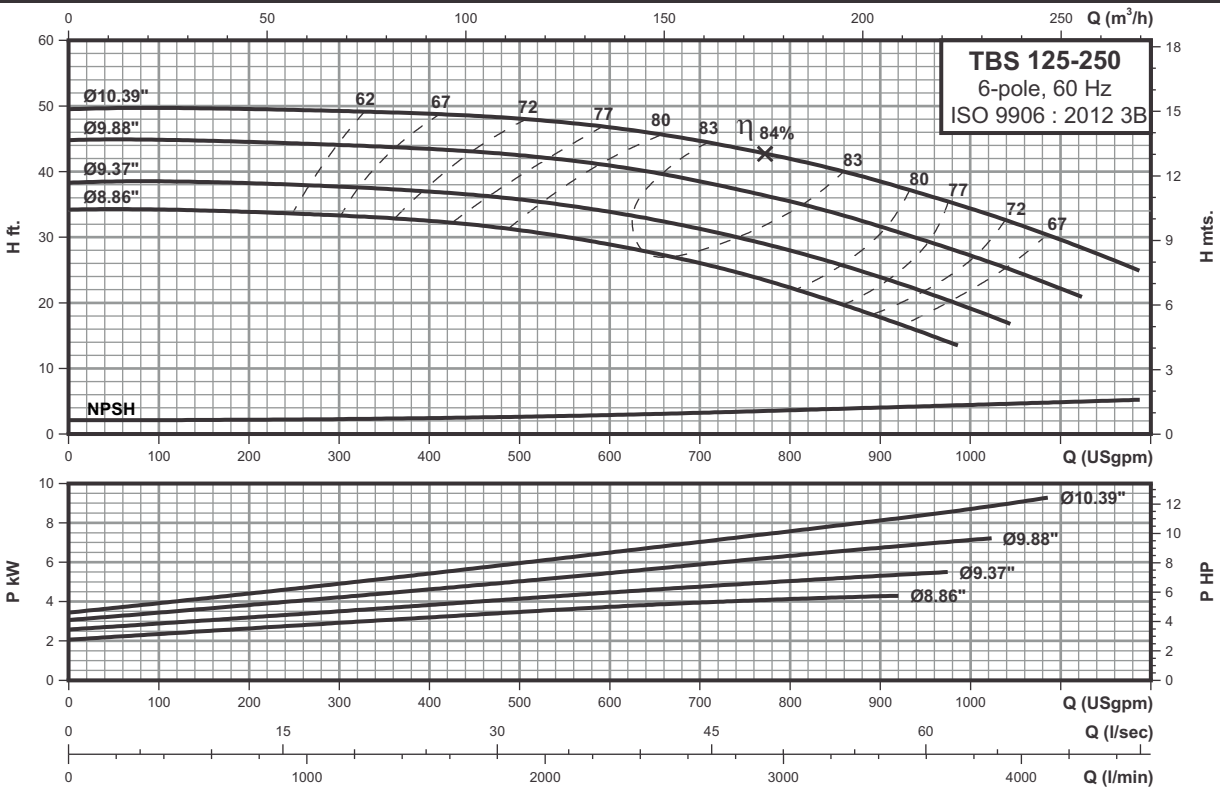
Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

Performance curves

TBS 125-250

Single-stage bare shaft end-suction pumps

6-pole



Technical data

Power	(hp)	5	7.5	10
	(kw)	3.7	5.5	7.5
Frame		215T	254T	256T
ANSI flange		125	125	125
DNs	inch(mm)	6.00(150)	6.00(150)	6.00(150)
DNd	inch(mm)	5.00(125)	5.00(125)	5.00(125)
a	inch(mm)	5.51(140)	5.51(140)	5.51(140)
h2	inch(mm)	13.98(355)	13.98(355)	13.98(355)
L	inch(mm)	44.69(1135)	48.07(1221)	49.72(1263)
l1	inch(mm)	49.21(1250)	49.21(1250)	55.12(1400)
l2	inch(mm)	8.07(205)	8.07(205)	9.06(230)
l3	inch(mm)	33.07(840)	33.07(840)	37.01(940)
b1	inch(mm)	16.93(430)	16.93(430)	18.90(480)
b2	inch(mm)	21.26(540)	21.26(540)	24.02(610)
b3	inch(mm)	19.29(490)	19.29(490)	21.65(550)
d	inch(mm)	0.94(24)	0.94(24)	1.10(28)
a2	inch(mm)	3.54(90)	3.54(90)	3.54(90)
h	inch(mm)	3.15(80)	3.15(80)	3.94(100)
h3	inch(mm)	12.99(330)	12.99(330)	13.78(350)
h4	inch(mm)	20.31(516)	21.73(552)	22.52(572)
Base frame no.		6	6	7
Net Weight	lbs(kg)	507(231)	559(254)	640(291)
Gross Weight	lbs(kg)	745(339)	797(362)	878(399)
Volume	ft³(m³)	38.10(1.079)	38.10(1.079)	38.10(1.079)

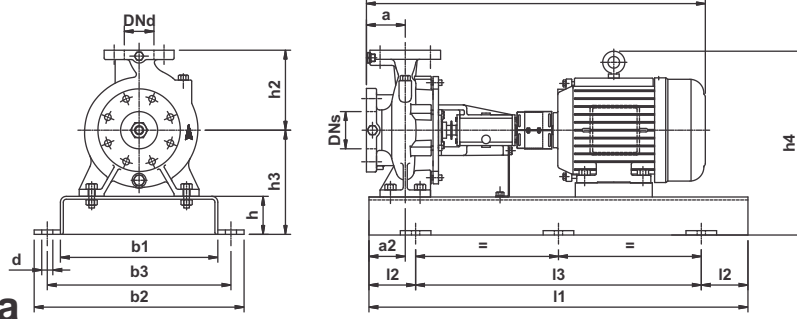
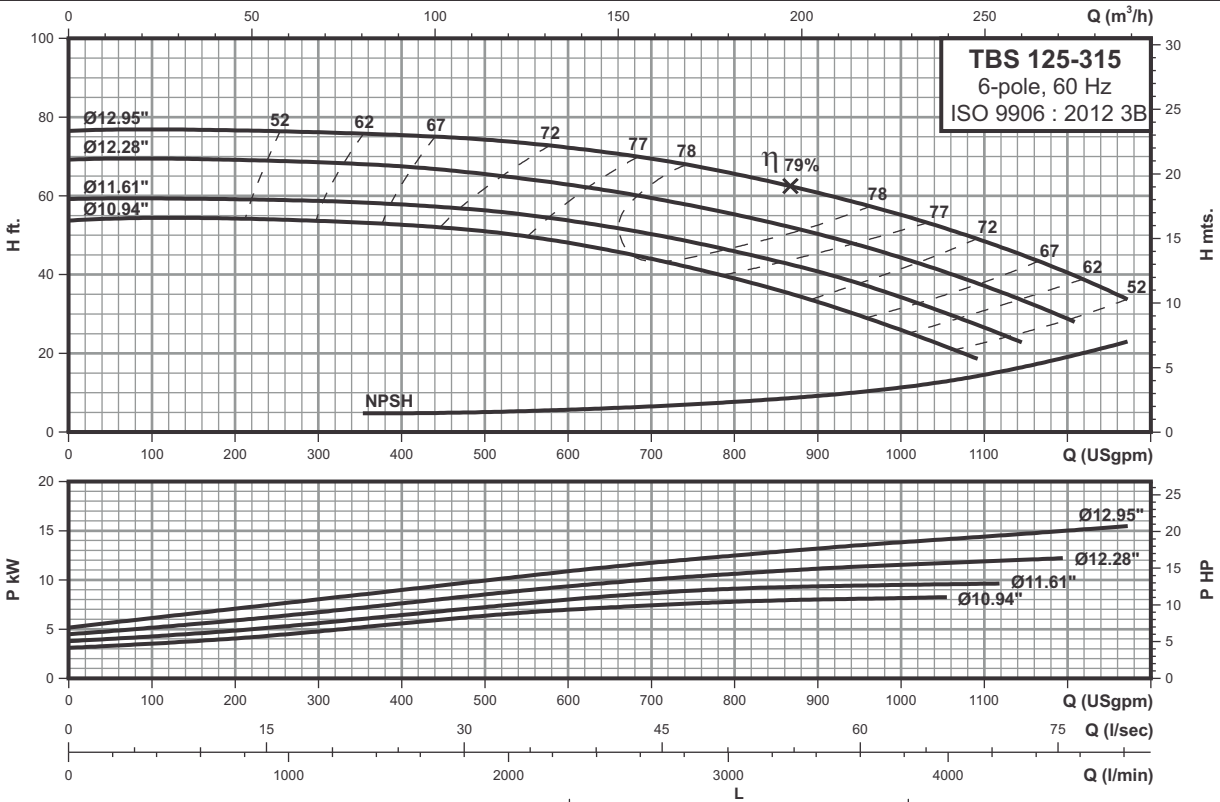
Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

Performance curves

TBS 125-315

Single-stage bare shaft end-suction pumps

6-pole



Technical data

Power	(hp)	10	15	20
	(kw)	7.5	11	15
Frame		256T	284T	286T
ANSI flange		125	125	125
DNs	inch(mm)	6.00(150)	6.00(150)	6.00(150)
DNd	inch(mm)	5.00(125)	5.00(125)	5.00(125)
a	inch(mm)	5.51(140)	5.51(140)	5.51(140)
h2	inch(mm)	13.98(355)	13.98(355)	13.98(355)
L	inch(mm)	52.09(1323)	55.67(1414)	56.42(1433)
l1	inch(mm)	62.99(1600)	62.99(1600)	62.99(1600)
l2	inch(mm)	10.63(270)	10.63(270)	10.63(270)
l3	inch(mm)	41.73(1060)	41.73(1060)	41.73(1060)
b1	inch(mm)	20.87(530)	20.87(530)	20.87(530)
b2	inch(mm)	25.98(660)	25.98(660)	25.98(660)
b3	inch(mm)	23.62(600)	23.62(600)	23.62(600)
d	inch(mm)	1.10(28)	1.10(28)	1.10(28)
a2	inch(mm)	4.33(110)	4.33(110)	4.33(110)
h	inch(mm)	3.94(100)	3.94(100)	3.94(100)
h3	inch(mm)	14.96(380)	14.96(380)	14.96(380)
h4	inch(mm)	23.70(602)	24.49(622)	24.49(622)
Base frame no.		8	8	8
Net Weight	lbs(kg)	725(330)	895(407)	956(435)
Gross Weight	lbs(kg)	1018(463)	1188(540)	1249(568)
Volume	ft³(m³)	52.05(1.474)	52.05(1.474)	52.05(1.474)

Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

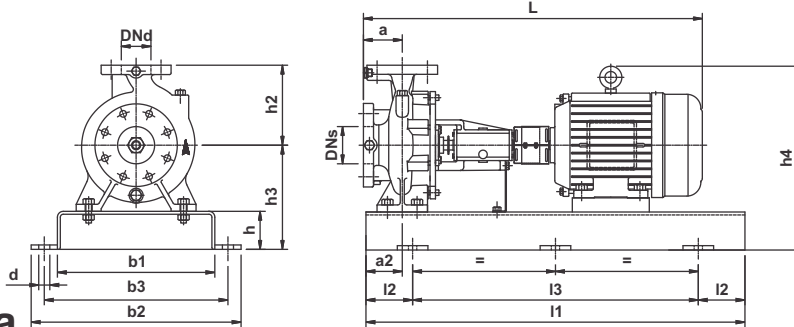
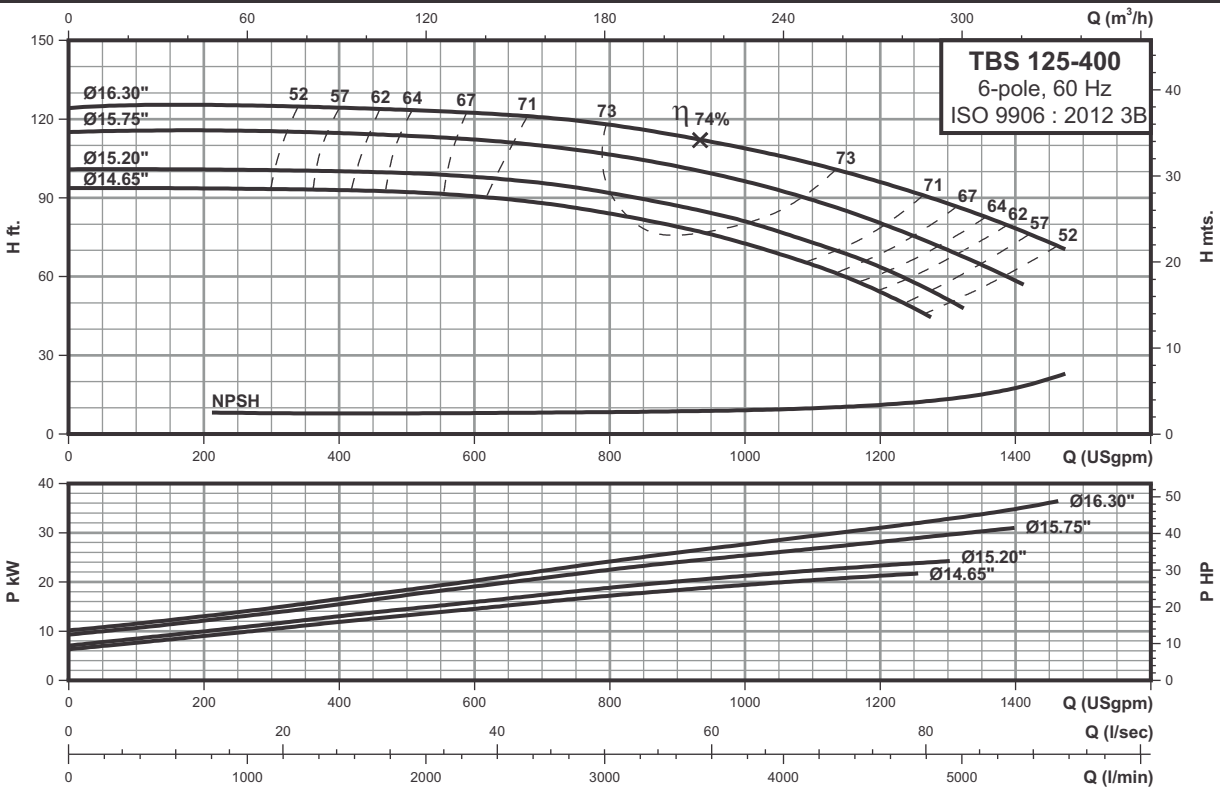
6 POLE

Performance curves

TBS 125-400

Single-stage bare shaft end-suction pumps

6-pole



Technical data

Power	(hp)	25	30	40	50
	(kw)	18.5	22	30	37
Frame		324T	326T	364T	365T
ANSI flange		125	125	125	125
DNs	inch(mm)	6.00(150)	6.00(150)	6.00(150)	6.00(150)
DNd	inch(mm)	5.00(125)	5.00(125)	5.00(125)	5.00(125)
a	inch(mm)	5.51(140)	5.51(140)	5.51(140)	5.51(140)
h2	inch(mm)	15.75(400)	15.75(400)	15.75(400)	15.75(400)
L	inch(mm)	58.90(1496)	58.90(1496)	60.00(1524)	60.98(1549)
l1	inch(mm)	62.99(1600)	62.99(1600)	62.99(1600)	62.99(1600)
l2	inch(mm)	10.63(270)	10.63(270)	10.63(270)	10.63(270)
l3	inch(mm)	41.73(1060)	41.73(1060)	41.73(1060)	41.73(1060)
b1	inch(mm)	20.87(530)	20.87(530)	20.87(530)	20.87(530)
b2	inch(mm)	25.98(660)	25.98(660)	25.98(660)	25.98(660)
b3	inch(mm)	23.62(600)	23.62(600)	23.62(600)	23.62(600)
d	inch(mm)	1.10(28)	1.10(28)	1.10(28)	1.10(28)
a2	inch(mm)	4.33(110)	4.33(110)	4.33(110)	4.33(110)
h	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
h3	inch(mm)	16.34(415)	16.34(415)	16.34(415)	16.34(415)
h4	inch(mm)	26.46(672)	26.46(672)	27.52(699)	27.52(699)
Base frame no.		8	8	8	8
Net Weight	lbs(kg)	1151(523)	1176(535)	1317(599)	1403(638)
Gross Weight	lbs(kg)	1444(656)	1469(668)	1610(732)	1696(771)
Volume	ft³(m³)	52.05(1.474)	52.05(1.474)	52.05(1.474)	52.05(1.474)

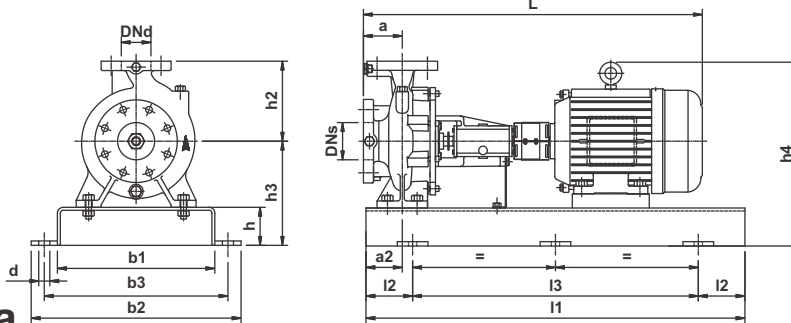
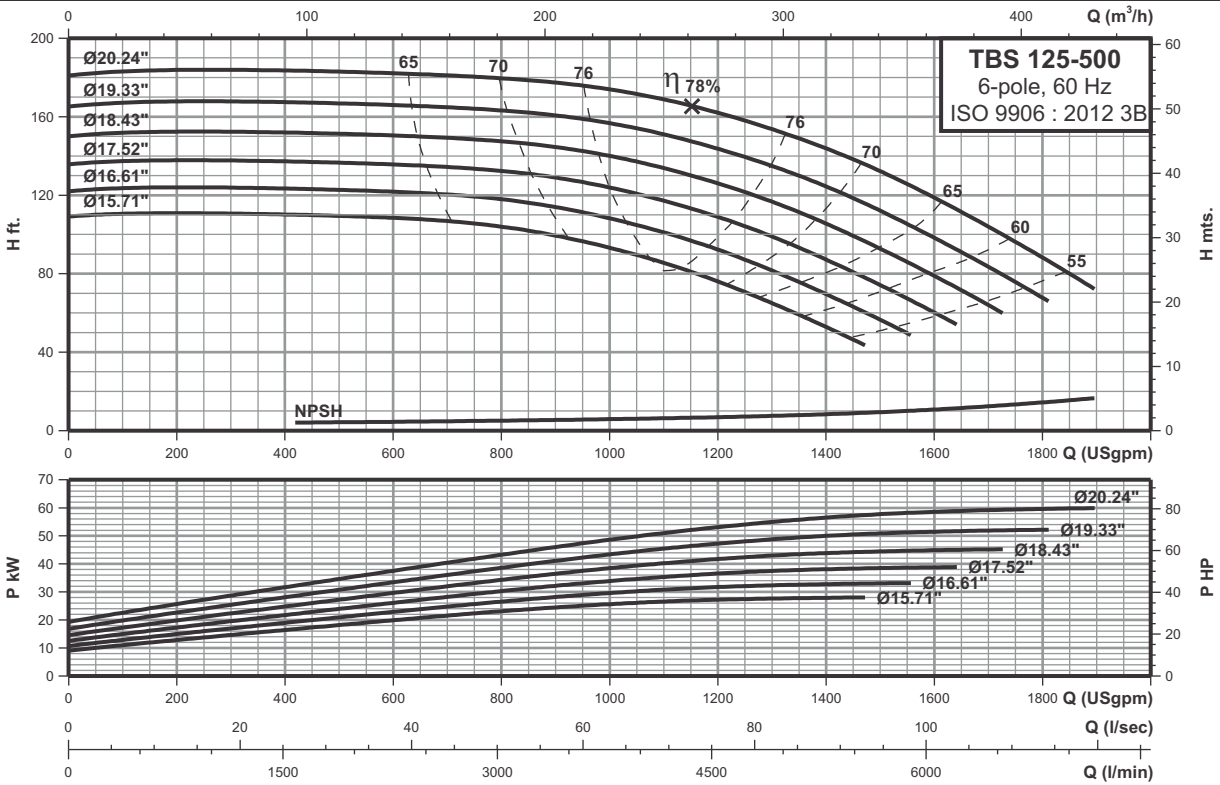
Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

Performance curves

TBS 125-500

Single-stage bare shaft end-suction pumps

6-pole



Technical data

Power	(hp)	40	50	60	75
	(kw)	30	37	45	55
Frame		364T	365T	404T	404T
ANSI flange		125	125	125	125
DNs	inch(mm)	6.00(150)	6.00(150)	6.00(150)	6.00(150)
DNd	inch(mm)	5.00(125)	5.00(125)	5.00(125)	5.00(125)
a	inch(mm)	7.09(180)	7.09(180)	7.09(180)	7.09(180)
h2	inch(mm)	19.69(500)	19.69(500)	19.69(500)	19.69(500)
L	inch(mm)	67.09(1704)	68.07(1729)	72.13(1832)	72.13(1832)
l1	inch(mm)	78.74(2000)	78.74(2000)	78.74(2000)	78.74(2000)
l2	inch(mm)	12.99(330)	12.99(330)	12.99(330)	12.99(330)
l3	inch(mm)	52.76(1340)	52.76(1340)	52.76(1340)	52.76(1340)
b1	inch(mm)	29.53(750)	29.53(750)	29.53(750)	29.53(750)
b2	inch(mm)	35.04(890)	35.04(890)	35.04(890)	35.04(890)
b3	inch(mm)	32.68(830)	32.68(830)	32.68(830)	32.68(830)
d	inch(mm)	1.10(28)	1.10(28)	1.10(28)	1.10(28)
a2	inch(mm)	4.33(110)	4.33(110)	4.33(110)	4.33(110)
h	inch(mm)	5.12(130)	5.12(130)	5.12(130)	5.12(130)
h3	inch(mm)	20.87(530)	20.87(530)	20.87(530)	20.87(530)
h4	inch(mm)	32.48(825)	32.91(836)	32.91(836)	33.78(858)
Base frame no.		10	10	10	10
Net Weight	lbs(kg)	2127(967)	2213(1006)	2466(1121)	2508(1140)
Gross Weight	lbs(kg)	2677(1217)	2763(1256)	3016(1371)	3058(1390)
Volume	ft³(m³)	107.18(3.035)	107.18(3.035)	107.18(3.035)	107.18(3.035)

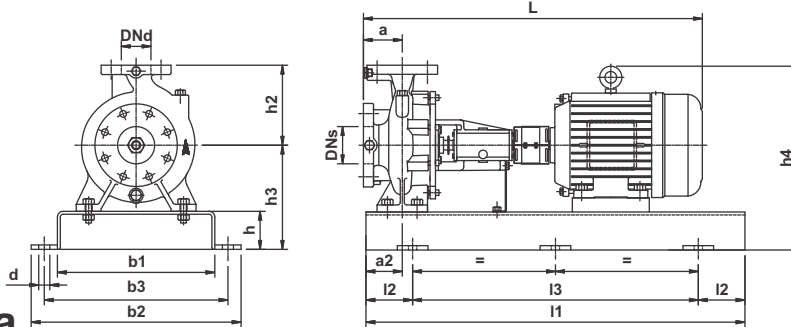
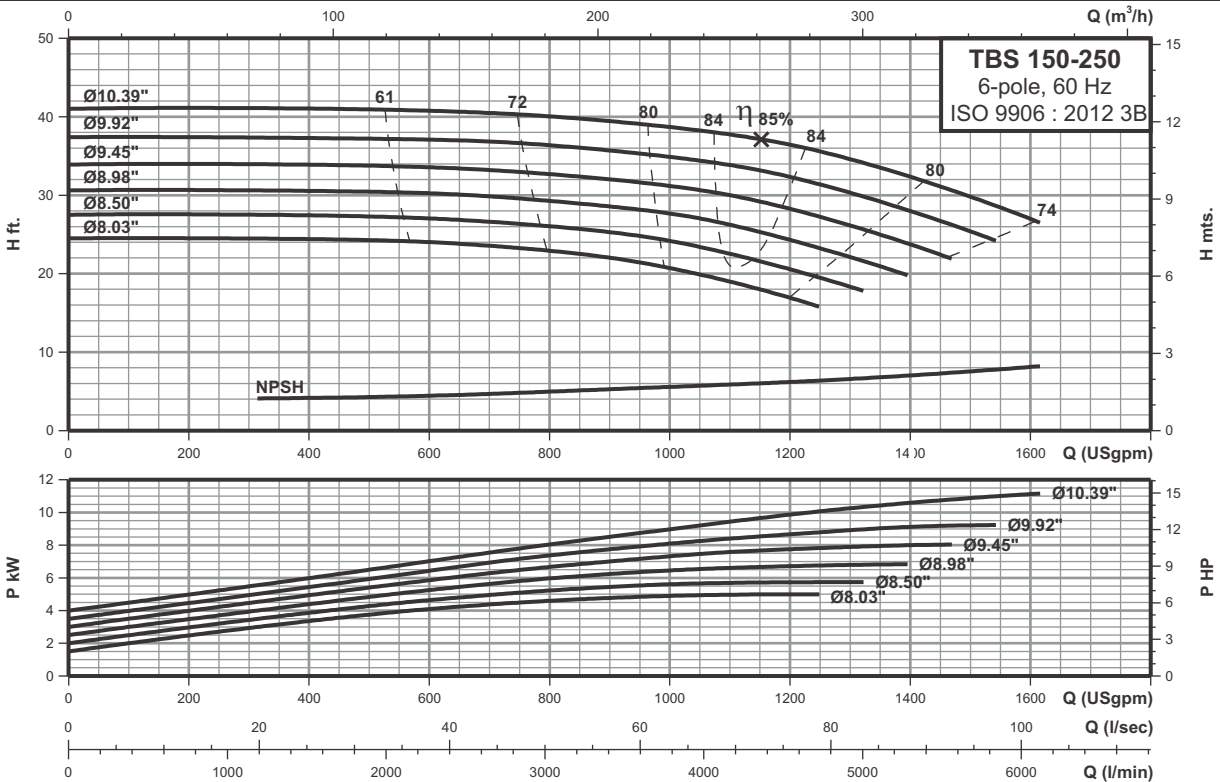
Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

Performance curves

TBS 150-250

Single-stage bare shaft end-suction pumps

6-pole



Technical data

Power	(hp)	7.5	10	15
	(kw)	5.5	7.5	11
Frame		254T	256T	284T
ANSI flange		125	125	125
DNs	inch(mm)	8.00(200)	8.00(200)	8.00(200)
DNd	inch(mm)	6.00(150)	6.00(150)	6.00(150)
a	inch(mm)	6.30(160)	6.30(160)	6.30(160)
h2	inch(mm)	14.76(375)	14.76(375)	14.76(375)
L	inch(mm)	50.55(1284)	52.20(1326)	55.67(1414)
l1	inch(mm)	62.99(1600)	62.99(1600)	62.99(1600)
l2	inch(mm)	10.63(270)	10.63(270)	10.63(270)
l3	inch(mm)	41.73(1060)	41.73(1060)	41.73(1060)
b1	inch(mm)	20.87(530)	20.87(530)	20.87(530)
b2	inch(mm)	25.98(660)	25.98(660)	25.98(660)
b3	inch(mm)	23.62(600)	23.62(600)	23.62(600)
d	inch(mm)	1.10(28)	1.10(28)	1.10(28)
a2	inch(mm)	4.33(110)	4.33(110)	4.33(110)
h	inch(mm)	3.94(100)	3.94(100)	3.94(100)
h3	inch(mm)	14.96(380)	14.96(380)	14.96(380)
h4	inch(mm)	24.53(623)	24.53(623)	26.54(674)
Base frame no.		8	8	8
Net Weight	lbs(kg)	697(317)	725(330)	895(407)
Gross Weight	lbs(kg)	985(448)	1013(461)	1184(538)
Volume	ft³(m³)	51.27(1.452)	51.27(1.452)	51.27(1.452)

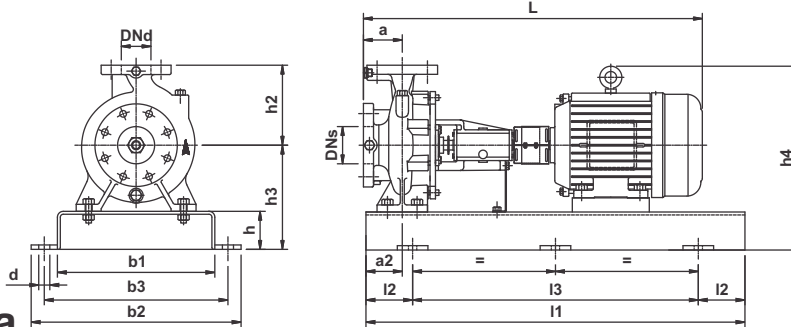
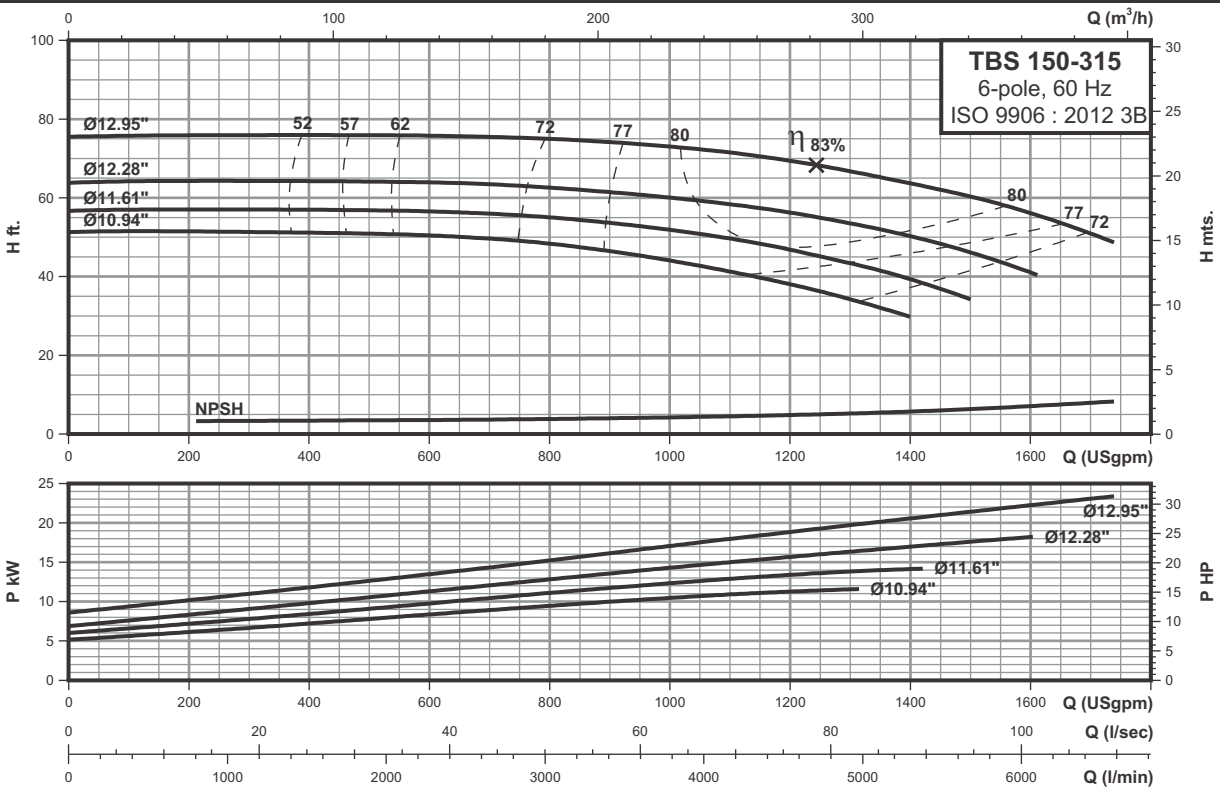
Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

Performance curves

TBS 150-315

Single-stage bare shaft end-suction pumps

6-pole



Technical data

Power	(hp)	15	20	25	30
	(kw)	11	15	18.5	22
Frame		284T	286T	324T	326T
ANSI flange		125	125	125	125
DNs	inch(mm)	8.00(200)	8.00(200)	8.00(200)	8.00(200)
DNd	inch(mm)	6.00(150)	6.00(150)	6.00(150)	6.00(150)
a	inch(mm)	6.30(160)	6.30(160)	6.30(160)	6.30(160)
h2	inch(mm)	15.75(400)	15.75(400)	15.75(400)	15.75(400)
L	inch(mm)	56.46(1434)	57.20(1453)	59.69(1516)	59.69(1516)
l1	inch(mm)	70.87(1800)	70.87(1800)	70.87(1800)	70.87(1800)
l2	inch(mm)	11.81(300)	11.81(300)	11.81(300)	11.81(300)
l3	inch(mm)	47.24(1200)	47.24(1200)	47.24(1200)	47.24(1200)
b1	inch(mm)	23.62(600)	23.62(600)	23.62(600)	23.62(600)
b2	inch(mm)	28.74(730)	28.74(730)	28.74(730)	28.74(730)
b3	inch(mm)	26.38(670)	26.38(670)	26.38(670)	26.38(670)
d	inch(mm)	1.10(28)	1.10(28)	1.10(28)	1.10(28)
a2	inch(mm)	4.33(110)	4.33(110)	4.33(110)	4.33(110)
h	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
h3	inch(mm)	14.96(380)	14.96(380)	14.96(380)	14.96(380)
h4	inch(mm)	24.49(622)	24.49(622)	25.08(637)	25.08(637)
Base frame no.		9	9	9	9
Net Weight	lbs(kg)	988(449)	1048(477)	1164(529)	1189(541)
Gross Weight	lbs(kg)	1340(609)	1400(637)	1516(689)	1541(701)
Volume	ft³(m³)	68.78(1.948)	68.78(1.948)	68.78(1.948)	68.78(1.948)

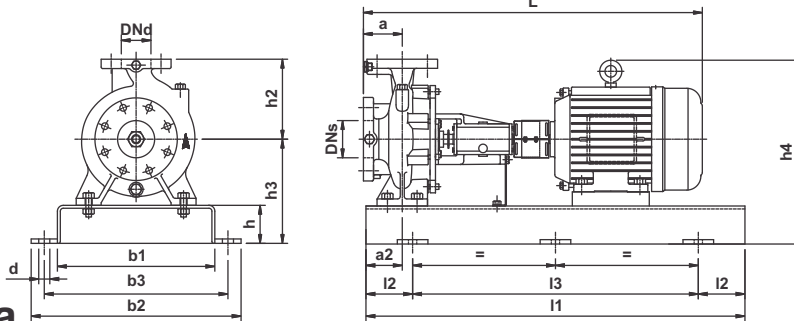
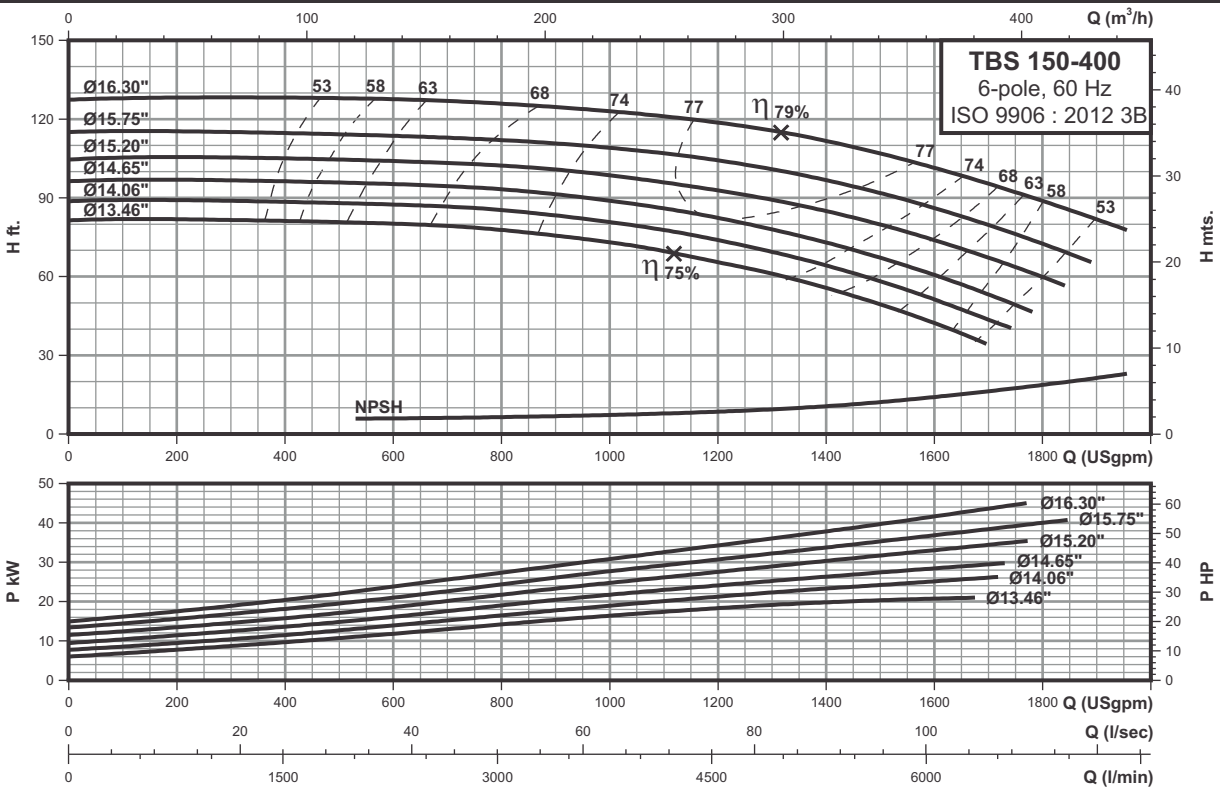
Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

Performance curves

TBS 150-400

Single-stage bare shaft end-suction pumps

6-pole



Technical data

Power	(hp)	30	40	50	60
	(kw)	22	30	37	45
Frame		326T	364T	365T	404T
ANSI flange		125	125	125	125
DNs	inch(mm)	8.00(200)	8.00(200)	8.00(200)	8.00(200)
DNd	inch(mm)	6.00(150)	6.00(150)	6.00(150)	6.00(150)
a	inch(mm)	6.30(160)	6.30(160)	6.30(160)	6.30(160)
h2	inch(mm)	17.72(450)	17.72(450)	17.72(450)	17.72(450)
L	inch(mm)	59.69(1516)	60.79(1544)	61.77(1569)	65.83(1672)
l1	inch(mm)	70.87(1800)	70.87(1800)	70.87(1800)	70.87(1800)
l2	inch(mm)	11.81(300)	11.81(300)	11.81(300)	11.81(300)
l3	inch(mm)	47.24(1200)	47.24(1200)	47.24(1200)	47.24(1200)
b1	inch(mm)	23.62(600)	23.62(600)	23.62(600)	23.62(600)
b2	inch(mm)	28.74(730)	28.74(730)	28.74(730)	28.74(730)
b3	inch(mm)	26.38(670)	26.38(670)	26.38(670)	26.38(670)
d	inch(mm)	1.10(28)	1.10(28)	1.10(28)	1.10(28)
a2	inch(mm)	4.33(110)	4.33(110)	4.33(110)	4.33(110)
h	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
h3	inch(mm)	16.34(415)	16.34(415)	16.34(415)	16.34(415)
h4	inch(mm)	24.46(622)	27.52(699)	27.52(699)	28.82(732)
Base frame no.		9	9	9	9
Net Weight	lbs(kg)	1262(574)	1403(638)	1488(677)	1742(792)
Gross Weight	lbs(kg)	1614(734)	1755(798)	1840(837)	2094(952)
Volume	ft³(m³)	68.78(1.948)	68.78(1.948)	68.78(1.948)	68.78(1.948)

Note: All dimensions are based on standard coupling, dimensions will change for spacer coupling.

Base frames

Single-stage bare shaft end-suction pumps

TBS

Base frames

The dimensional sketches below show the dimensions of the base frames fitted to TBS pumps.

The type number of the base frame is stated for each TBS pump mentioned in the Technical data.

Base frame type No.	Base frame
2	
3	
4	
5	

Base frames

Single-stage bare shaft end-suction pumps

TBS

Base frame type No.	Base frame
6	
7	
8	
9	
10	

All dimensions in inches unless otherwise noted.

Accessories

Single-stage bare shaft end-suction pumps

TBS

Counter flanges

Cast iron pumps (version-A,B,C,D)

For threaded connection, flanges are made of cast iron.
For welding connection, flanges are made of carbon steel.

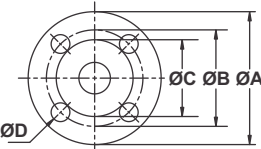
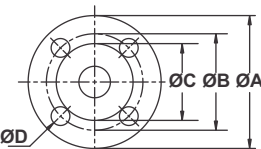
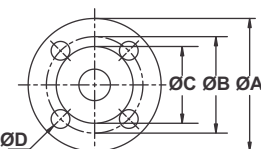
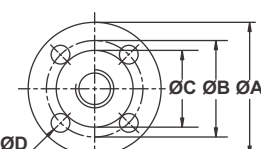
CF-8 & Bronze pumps (version-E,F)

For threaded connection, flanges are made of CF-8.
For welding connection, flanges are made of AISI 304.

CF-8M pumps (version-G)

For threaded connection, flanges are made of CF-8M.
For welding connection, flanges are made of AISI 316.

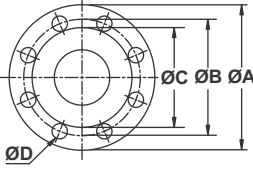
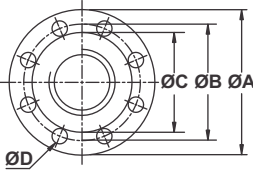
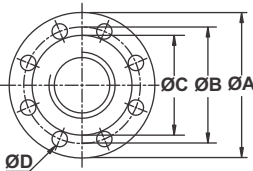
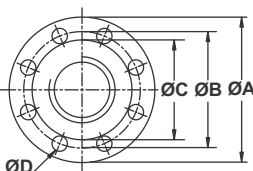
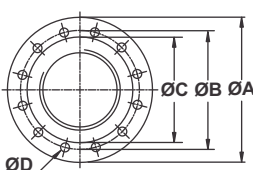
A set consist of one counter flange, one gasket of rubber material and the requisite number of bolts and nuts.

Counter flange	Flange size	Description		A	B	C	ØDxQty. of Holes	Pipework connection	Product number			
	1 1/4	Threaded	ANSI 125	Ø4.53	Ø3.50	-	Ø0.62X4	1 1/4 NPT	0323T*			
			ANSI 250	Ø5.31	Ø3.86	Ø3.07	Ø0.75X4		0324T*			
			PN 16	Ø5.51	Ø3.94	Ø3.07	Ø0.70X4	1 1/4 BSP**	0321T*			
			PN 25	Ø5.51	Ø3.94	Ø3.07	Ø0.70X4		0322T*			
		For welding	ANSI 125	Ø4.53	Ø3.50	-	Ø0.62X4	1 1/4	0323W*			
			ANSI 250	Ø5.31	Ø3.86	Ø3.07	Ø0.75X4		0324W*			
			PN 16	Ø5.51	Ø3.94	Ø3.07	Ø0.70X4		0321W*			
			PN 25	Ø5.51	Ø3.94	Ø3.07	Ø0.70X4		0322W*			
	1 1/2	Threaded	ANSI 125	Ø4.92	Ø3.86	-	Ø0.62X4	1 1/2 NPT	0403T*			
			ANSI 250	Ø6.10	Ø4.49	Ø3.58	Ø0.87X4		0404T*			
			PN 16	Ø5.91	Ø4.33	Ø3.46	Ø0.70X4	1 1/2 BSP**	0401T*			
			PN 25	Ø5.91	Ø4.33	Ø3.46	Ø0.70X4		0402T*			
		For welding	ANSI 125	Ø4.92	Ø3.86	-	Ø0.62X4	1 1/2	0403W*			
			ANSI 250	Ø6.10	Ø4.49	Ø3.58	Ø0.87X4		0404W*			
			PN 16	Ø5.91	Ø4.33	Ø3.46	Ø0.70X4		0401W*			
			PN 25	Ø5.91	Ø4.33	Ø3.46	Ø0.70X4		0402W*			
	2	Threaded	ANSI 125	Ø5.91	Ø4.76	-	Ø0.75X4	2 NPT	0503T*			
			ANSI 250	Ø6.50	Ø5.00	Ø4.17	Ø0.75X8		0504T*			
			PN 16	Ø6.50	Ø4.92	Ø4.02	Ø0.70X4	2 BSP**	0501T*			
			PN 25	Ø6.50	Ø4.92	Ø4.02	Ø0.70X4		0502T*			
		For welding	ANSI 125	Ø5.91	Ø4.76	-	Ø0.75X4	2	0503W*			
			ANSI 250	Ø6.50	Ø5.00	Ø4.17	Ø0.75X8		0504W*			
			PN 16	Ø6.50	Ø4.92	Ø4.02	Ø0.70X4		0501W*			
			PN 25	Ø6.50	Ø4.92	Ø4.02	Ø0.70X4		0502W*			
	2 1/2	Threaded	ANSI 125	Ø7.09	Ø5.51	-	Ø0.75X4	2 1/2 NPT	0653T*			
			ANSI 250	Ø7.48	Ø5.87	Ø4.92	Ø0.87X8		0654T*			
			PN 16	Ø7.28	Ø5.71	Ø4.80	Ø0.70X4	2 1/2 BSP**	0651T*			
			PN 25	Ø7.28	Ø5.71	Ø4.80	Ø0.70X8		0652T*			
		For welding	ANSI 125	Ø7.09	Ø5.51	-	Ø0.75X4	2 1/2	0653W*			
			ANSI 250	Ø7.48	Ø5.87	Ø4.92	Ø0.87X8		0654W*			
			PN 16	Ø7.28	Ø5.71	Ø4.80	Ø0.70X4		0651W*			
			PN 25	Ø7.28	Ø5.71	Ø4.80	Ø0.70X8		0652W*			

Accessories

Single-stage bare shaft end-suction pumps

TBS

Counter flange	Flange size	Description		A	B	C	ØDxQty. of Holes	Pipework connection	Product number
	3	Threaded	ANSI 125	Ø7.48	Ø5.98	-	Ø0.75X4	3 NPT	0803T*
			ANSI 250	Ø8.27	Ø6.61	Ø5.67	Ø0.87X8		0804T*
			PN 16	Ø7.87	Ø6.30	Ø5.43	Ø0.70X8	3 BSP**	0801T*
			PN 25	Ø7.87	Ø6.30	Ø5.43	Ø0.70X8		0802T*
		For welding	ANSI 125	Ø7.48	Ø5.98	-	Ø0.75X4	3	0803W*
			ANSI 250	Ø8.27	Ø6.61	Ø5.67	Ø0.87X8		0804W*
			PN 16	Ø7.87	Ø6.30	Ø5.43	Ø0.70X8		0801W*
			PN 25	Ø7.87	Ø6.30	Ø5.43	Ø0.70X8		0802W*
	4	Threaded	ANSI 125	Ø9.06	Ø7.52	-	Ø0.75X8	4 NPT	1003T*
			ANSI 250	Ø10.04	Ø7.87	Ø6.93	Ø0.87X8		1004T*
			PN 16	Ø9.25	Ø7.09	Ø6.22	Ø0.70X8	4 BSP**	1001T*
			PN 25	Ø9.25	Ø7.48	Ø6.22	Ø0.86X8		1002T*
		For welding	ANSI 125	Ø9.06	Ø7.52	-	Ø0.75X8	4	1003W*
			ANSI 250	Ø10.04	Ø7.87	Ø6.93	Ø0.87X8		1004W*
			PN 16	Ø9.25	Ø7.09	Ø6.22	Ø0.70X8		1001W*
			PN 25	Ø9.25	Ø7.48	Ø6.22	Ø0.86X8		1002W*
	5	Threaded	ANSI 125	Ø10.04	Ø8.50	-	Ø0.87X8	5 NPT	1253T*
			ANSI 250	Ø11.02	Ø9.25	Ø8.31	Ø0.87X8		1254T*
			PN 16	Ø10.63	Ø8.27	Ø7.40	Ø0.70X8	5 BSP**	1251T*
			PN 25	Ø10.63	Ø8.66	Ø7.40	Ø0.98X8		1252T*
		For welding	ANSI 125	Ø10.04	Ø8.50	-	Ø0.87X8	5	1253W*
			ANSI 250	Ø11.02	Ø9.25	Ø8.31	Ø0.87X8		1254W*
			PN 16	Ø10.63	Ø8.27	Ø7.40	Ø0.70X8		1251W*
			PN 25	Ø10.63	Ø8.66	Ø7.40	Ø0.98X8		1252W*
	6	Threaded	ANSI 125	Ø11.02	Ø9.49	-	Ø0.87X8	6 NPT	1503T*
			ANSI 250	Ø12.60	Ø10.63	Ø9.69	Ø0.87X12		1504T*
			PN 16	Ø11.81	Ø9.45	Ø8.35	Ø0.86X8	6 BSP**	1501T*
			PN 25	Ø11.81	Ø9.84	Ø8.35	Ø0.98X8		1502T*
		For welding	ANSI 125	Ø11.02	Ø9.49	-	Ø0.87X8	6	1503W*
			ANSI 250	Ø12.60	Ø10.63	Ø9.69	Ø0.87X12		1504W*
			PN 16	Ø11.81	Ø9.45	Ø8.35	Ø0.86X8		1501W*
			PN 25	Ø11.81	Ø9.84	Ø8.35	Ø0.98X8		1502W*
	8	Threaded	ANSI 125	Ø13.58	Ø11.77	-	Ø0.87X8	8 NPT	2003T*
			ANSI 250	Ø14.96	Ø12.99	Ø11.93	Ø1.13X12		2004T*
			PN 16	Ø14.17	Ø11.61	Ø10.55	Ø0.86X12	8 BSP**	2001T*
			PN 25	Ø14.17	Ø12.20	Ø10.55	Ø0.98X12		2002T*
		For welding	ANSI 125	Ø13.58	Ø11.77	-	Ø0.87X8	8	2003W*
			ANSI 250	Ø14.96	Ø12.99	Ø11.93	Ø1.13X12		2004W*
			PN 16	Ø14.17	Ø11.61	Ø10.55	Ø0.86X12		2001W*
			PN 25	Ø14.17	Ø12.20	Ø10.55	Ø0.98X12		2002W*

Accessories

Single-stage bare shaft end-suction pumps

TBS

Counter flange	Flange size	Description		A	B	C	ØDxQty. of Holes	Pipework connection	Product number
	10	Threaded	ANSI 125	Ø15.94	Ø14.25	-	Ø1X12	10 NPT	2503T*
			ANSI 250	Ø17.52	Ø15.24	Ø14.06	Ø1.25X16		2504T*
			PN 16	Ø16.73	Ø13.98	Ø12.60	Ø0.98X12	10 BSP**	2501T*
			PN 25	Ø16.73	Ø14.57	Ø12.60	Ø1.14X12		2502T*
		For welding	ANSI 125	Ø15.94	Ø14.25	-	Ø1X12	10	2503W*
			ANSI 250	Ø17.52	Ø15.24	Ø14.06	Ø1.25X16		2504W*
			PN 16	Ø16.73	Ø13.98	Ø12.60	Ø0.98X12		2501W*
			PN 25	Ø16.73	Ø14.57	Ø12.60	Ø1.14X12		2502W*

* Add a subscript as per following example to part number.
 0321TCI for cast iron flanges.
 0321TS1 for S.S 304 flanges.
 0321TS2 for S.S 316 flanges.
 0321WCS for carbon steel flanges.

** NPT threaded flanges are also available on request.
 All dimensions in inches unless otherwise noted.



SISTEMAS HIDRÓNICOS DEL NORTE

Galeana No.2902 Col. Del Norte, Monterrey, N.L. México 64500

Tel. (81) 8989-9372

ventas@shn.com.mx

www.sistemashidronicos.com



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