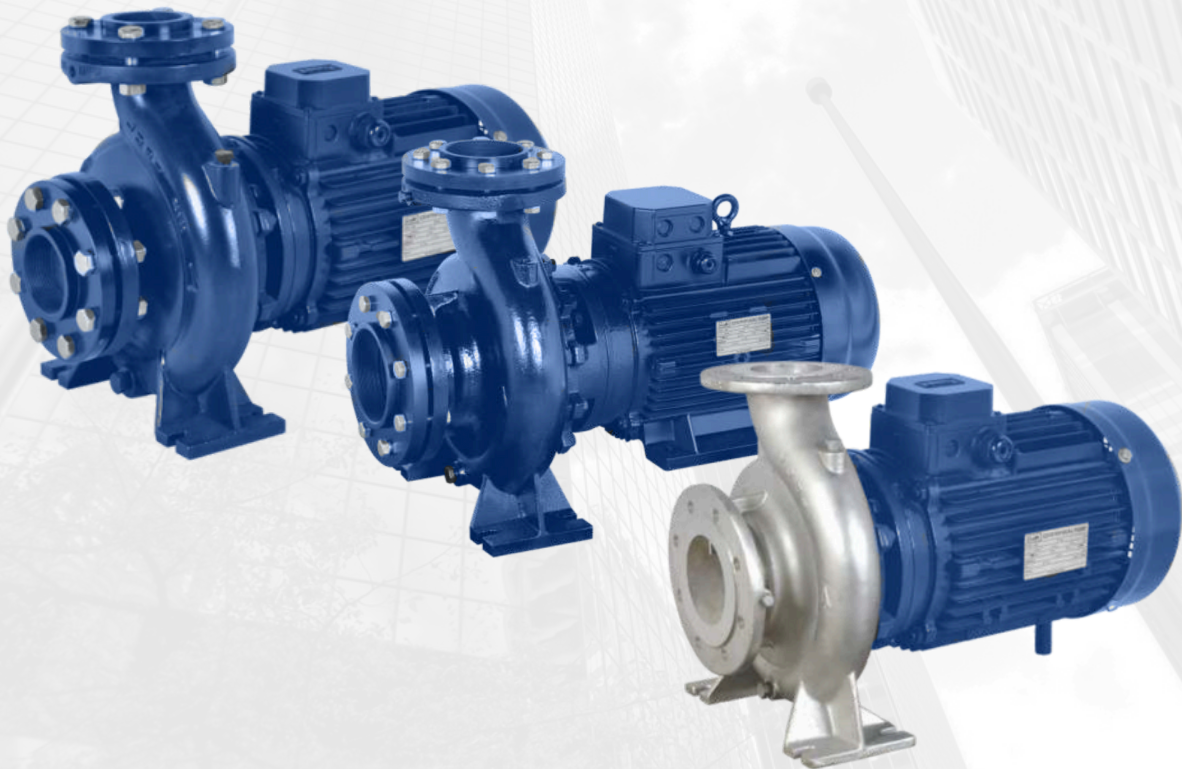




***Experiencia, Conocimiento y Soluciones  
en Sistemas HVAC***



## **TES SERIES**

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

# TORO

*WATER SOLUTIONS*  
A SHN BRAND



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

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### Type key

The example shows an TES 32-125 60 Hz 2 pole pump with a maximum impeller diameter & ANSI 125 flanges, with cast iron casing & impeller and with a carbon/ceramic/NBR/S.S 304 shaft seal.

#### LES

**Example** TES 32 -125 1 A 2A A 1

Type range							
Nominal diameter of discharge port (mm)							
Nominal impeller diameter [mm]							
Code for motor speed n [min <sup>-1</sup> ]							
1 = 3450 min <sup>-1</sup>							
3 = 1750 min <sup>-1</sup>							
5 = 1150 min <sup>-1</sup>							
Code for Impeller Diameter							
A = Full diameter performance							
B = Diameter 1 performance							
C = Diameter 2 performance							
D = Diameter 3 performance							
E = Diameter 4 performance							
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 end-suction pumps

TES

### Introduction

TES are single stage 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 TES 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 close coupled pumps with TEFC squirrel cage induction motors with main dimensions complying to NEMA standards MG 1-2006.
- These pumps are available with mechanical shaft seal only.
- These pumps have the discharge range from 35 to 2790 USgpm and head range from 15 to 470 feet. Motor ratings are from 1 to 200 HP.
- The pump impellers are dynamically balanced to grade 6.3 of ISO 1940.
- 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 of 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 with aluminum frame size from 71 to 160 and motor with cast iron frame size from 180 to 315.

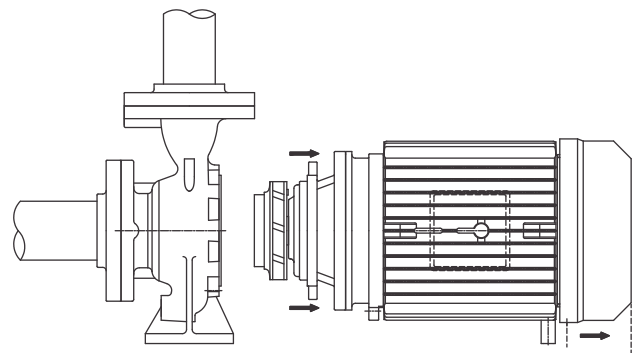
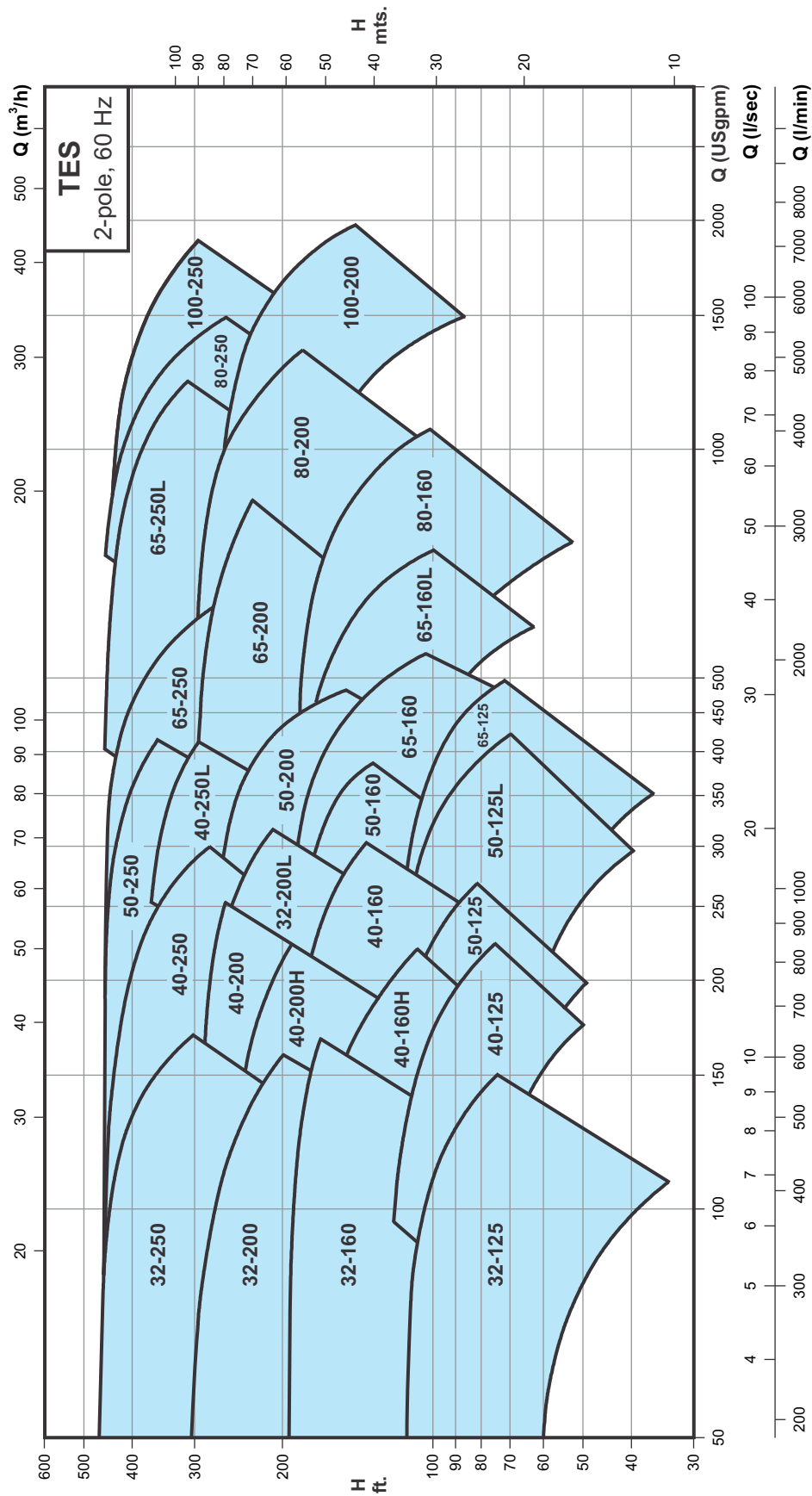


Fig. 1 Back pull-out design

# Performance range

Single-stage end-suction pumps

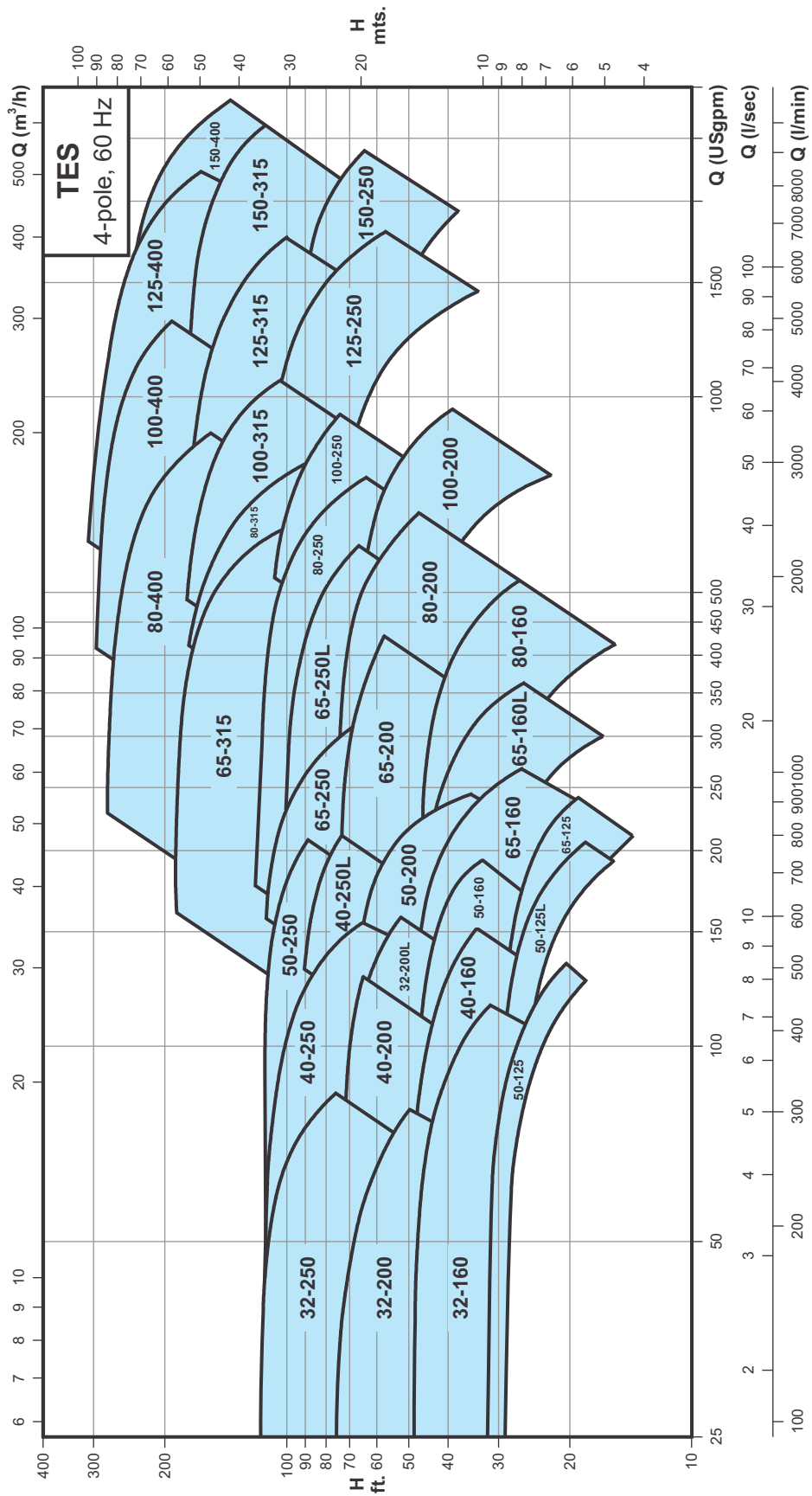
TES 2-Pole



# Performance range

## Single-stage end-suction pumps

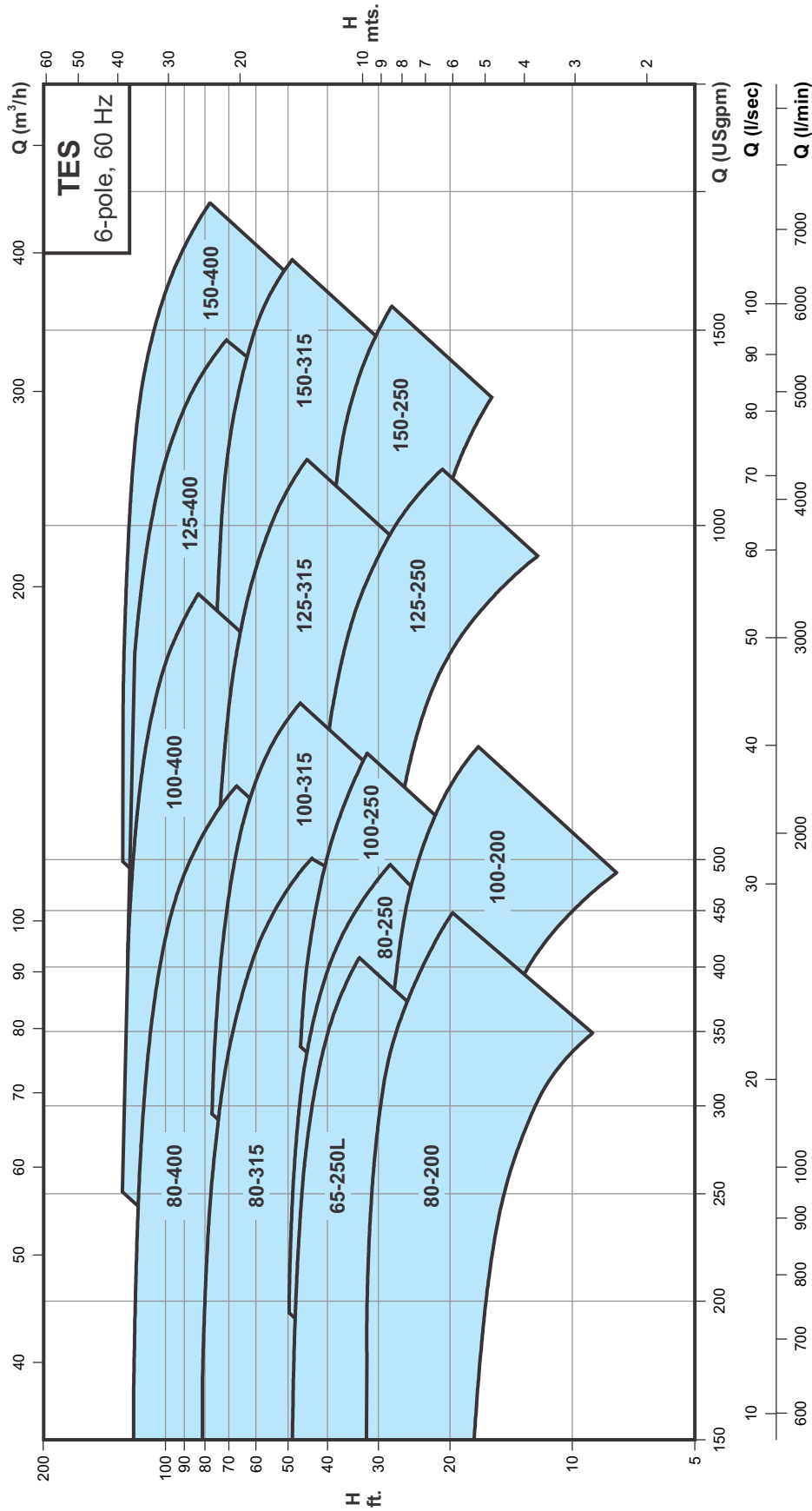
## TES 4-Pole



# Performance range

Single-stage end-suction pumps

TES 6-Pole

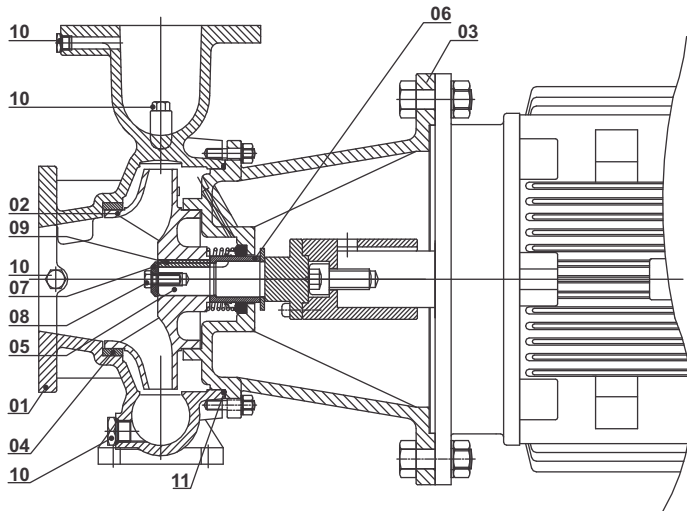


# Construction

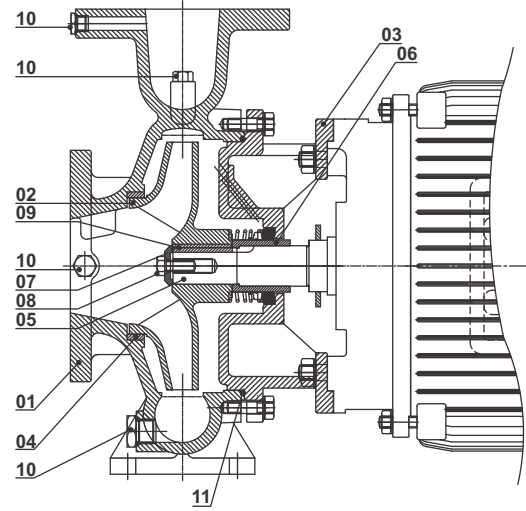
## Single-stage end-suction pumps

TES

### Sectional drawing



**Fig. 2a** 404TC to 505TC frame  
404TSC to 505TSC frame



**Fig. 2b** 143JM to 365JM frame

### 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	Adaptor	Cast Iron	Cast Iron	Cast Iron	Cast Iron	Bronze	CF-8	CF-8M
5	Pump shaft	Carbon steel	Carbon steel	S.S.304	S.S.316	S.S.304	S.S.304	S.S.316
6	Shaft sleeve	S.S.410	S.S.410	S.S.304	S.S.316	Bronze	S.S.304	S.S.316
7	Impeller washer	S.S.410	S.S.410	S.S.304	S.S.316	Bronze	S.S.304	S.S.316
8	Impeller lock pin	S.S.410	S.S.410	S.S.304	S.S.316	S.S.410	S.S.304	S.S.316
9	Impeller key	S.S.410	S.S.410	S.S.304	S.S.316	S.S.410	S.S.304	S.S.316
10	Plugs	Carbon steel	Carbon steel	Carbon steel	Carbon steel	Bronze	S.S.304	S.S.316
11	O-ring	NBR	NBR	NBR	NBR	Viton	Viton	Viton
4	Wear ring*	Cast Iron	Bronze	S.S.304	S.S.316	Bronze	CF-8	CF-8M

\* Wear ring is available on request only.



# Construction

## Single-stage end-suction pumps

TES

### Construction features

#### Mounting

All TES pumps up to 215JM frame come with pump volute casing with feet and motor without feet (see fig. 3). Starting from 254JM frame they come with volute casing with feet and motor with feet (see fig. 4).

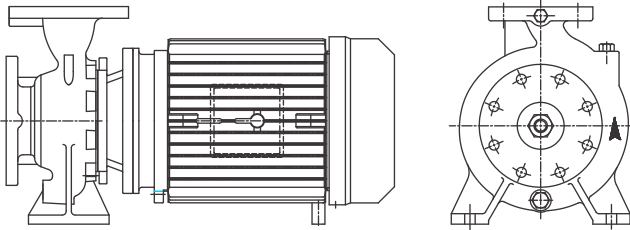


Fig. 3 Pump design A

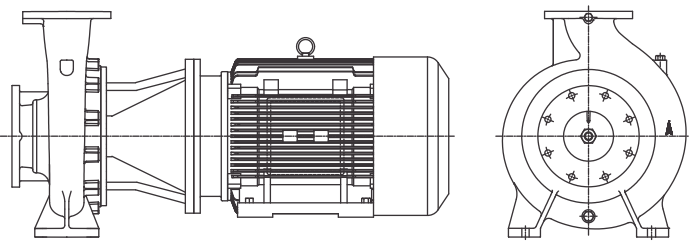


Fig. 4 Pump design B

#### 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.

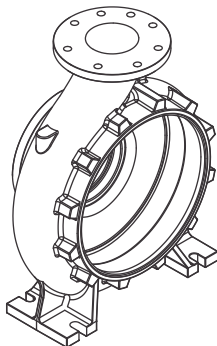


Fig. 5 Volute casing

#### Motor Adaptor & Back cover

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

#### Shaft

As shown in the figure an integral single shaft is provided for all pumps from 143JM to 365JM frame (see fig. 6). Remaining pumps are provided with stub shaft as shown below (see fig. 7) which has two drilled holes for set screws in the coupling.

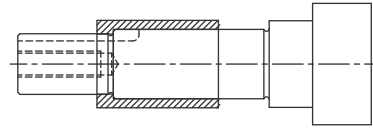


Fig. 6 Integral shaft pump

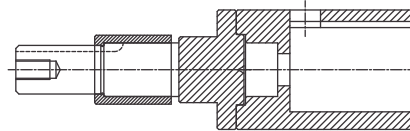


Fig. 7 Stub shaft pump

#### 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. 8 Impeller

#### 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 end-suction pumps

**TES**

### 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.

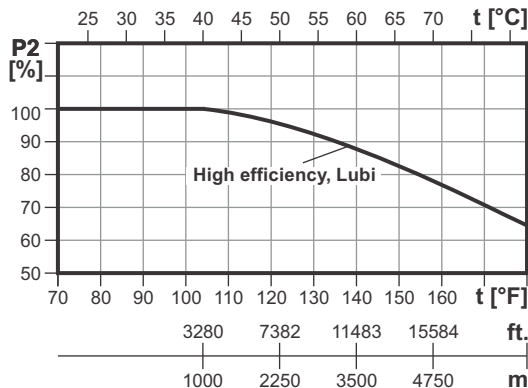


Fig. 9 Motor P2 depend on temperature/altitude

### 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

TES 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 LES 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 end-suction pumps

TES

### 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 [TI/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	145JM	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	182JM	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	184JM	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	184JM	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	184JM	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	215JM	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	215JM	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	256JM	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	284JM	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	286JM	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	324JM	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	326JM	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	364JM	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	365JM	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	405TSC	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	444TSC	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	445TSC	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	505TSC	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 [TI/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	143JM	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	145JM	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	145JM	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	182JM	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	184JM	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	184JM	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	213JM	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	215JM	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	254JM	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	256JM	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	284JM	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	286JM	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	324JM	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	326JM	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	364JM	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	365JM	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	405TC	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	444TC	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	445TC	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	505TC	460	230	G	6.4	594	2.3	2.4	94.1	95.0	95.0	0.86	1.15	2156

### High efficiency, 6-pole

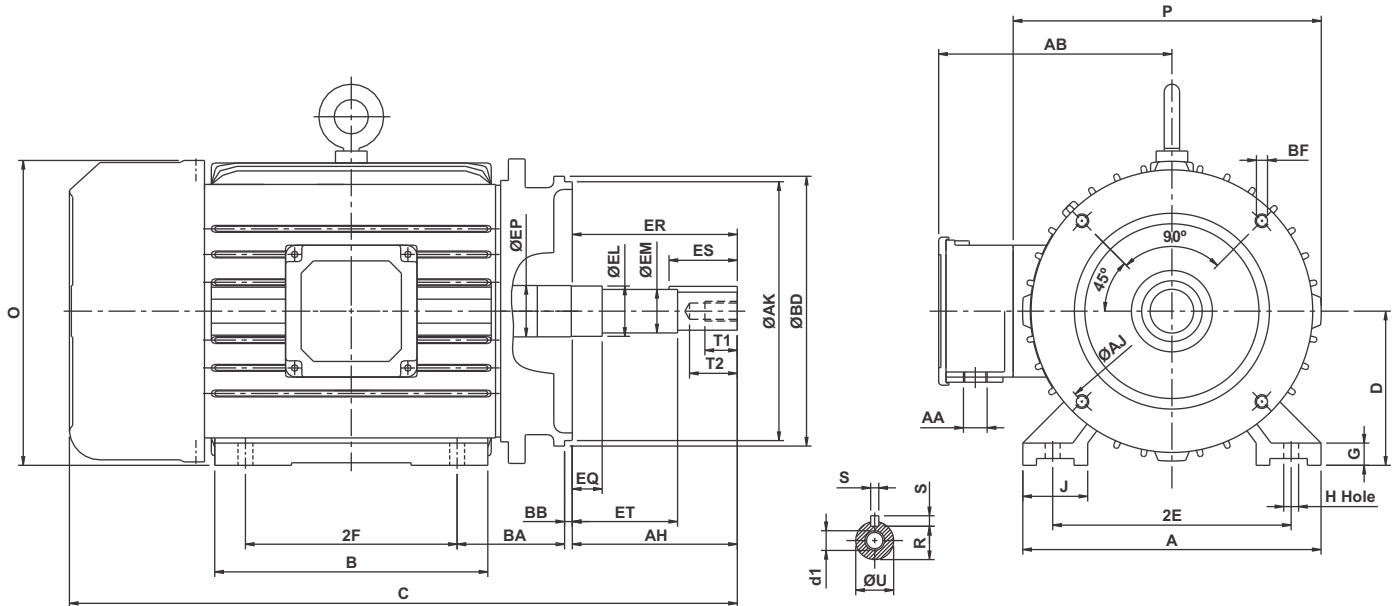
Rated output		Full load speed [rpm]	Frame size	Full load current in [A] at		Locked rotor current		Full load torque Tn [lb.ft]	Locked rotor torque [TI/Tn]	Break down torque [Tb/Tn]	Efficiency			Power factor cost	Service factor SF	Approx. weight [lbs]
P2 [HP]	P2 [kW]			230 V	460 V	[KVA code]	[I/In]				% of full load					
											50	75	100	100		
1.50	1.10	1165	182JM	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	184JM	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	213JM	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	215JM	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	215JM	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	254JM	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	256JM	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	284JM	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	286JM	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	324JM	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	326JM	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	364JM	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	365JM	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	404TC	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 end-suction pumps

TES

### JM frame



Frame size	Mounting				A	B	D	G	J	O	P	AB	AA	AJ	AK	BB	BD	BF	
	2E	2F	H	BA														Qty.	Tape size
143JM	-	-	-	-	-	-	-	-	-	7.06	7.17	4.92	3/4"	5.874	4.5	0.157	6.50	4	UNC 3/8"X13
145JM	-	-	-	-	-	-	-	-	-	7.06	7.17	4.92	3/4"	5.874	4.5	0.157	6.50	4	UNC 3/8"X13
182JM	-	-	-	-	-	-	-	-	-	8.70	8.70	6.46	3/4"	5.874	4.5	0.157	6.50	4	UNC 3/8"X13
184JM	-	-	-	-	-	-	-	-	-	8.70	8.70	6.46	3/4"	5.874	4.5	0.157	6.50	4	UNC 3/8"X13
213JM	-	-	-	-	-	-	-	-	-	10.35	10.31	7.40	1"	7.252	8.5	0.248	8.86	4	UNC 3/8"X13
215JM	-	-	-	-	-	-	-	-	-	10.35	10.31	7.40	1"	7.252	8.5	0.248	8.86	4	UNC 1/2"X13
254JM	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"	7.252	8.5	0.248	10.0	4	UNC 1/2"X13
256JM	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"	7.252	8.5	0.248	10.0	4	UNC 1/2"X13
284JM	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"	11.00	12.5	0.248	14.0	4	UNC 5/8"X11
286JM	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"	11.00	12.5	0.248	14.0	4	UNC 5/8"X11
324JM	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"	11.00	12.5	0.248	14.0	4	UNC 5/8"X11
326JM	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"	11.00	12.5	0.248	14.0	4	UNC 5/8"X11
364JM	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"	11.00	12.5	0.248	14.0	8	UNC 5/8"X11
365JM	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"	11.00	12.5	0.248	14.0	8	UNC 5/8"X11

Frame size	Lengths				Diameters				Keyway			Threaded hole			C
	AH	ER	EQ	ET	U	EM	EL	EP	S	R	ES	d1(UNC)	T1	T2	
143JM	4.258	4.258	0.630	2.880	0.874	1.000	1.156	1.179	0.187	0.767	1.575	3/8"X16	0.748	1.102	14.60
145JM	4.258	4.258	0.630	2.880	0.874	1.000	1.156	1.179	0.187	0.767	1.575	3/8"X16	0.748	1.102	15.60
182JM	4.258	4.258	0.630	2.880	0.874	1.000	1.250	1.376	0.187	0.767	1.575	3/8"X16	0.748	1.102	17.56
184JM	4.258	4.258	0.630	2.880	0.874	1.000	1.250	1.376	0.187	0.767	1.575	3/8"X16	0.748	1.102	17.56
213JM	4.258	4.258	0.630	2.880	0.874	1.000	1.250	1.750	0.187	0.767	1.575	3/8"X16	0.748	1.102	20.62
215JM	4.258	4.258	0.630	2.880	0.874	1.000	1.250	1.750	0.187	0.767	1.575	3/8"X16	0.748	1.102	20.62
254JM	5.250	5.250	0.630	3.006	1.249	1.375	1.750	1.750	0.250	1.110	2.480	1/2"X13	0.984	1.496	24.40
256JM	5.250	5.250	0.630	3.006	1.249	1.375	1.750	1.750	0.250	1.110	2.480	1/2"X13	0.984	1.496	26.10
284JM	5.250	5.250	0.630	3.006	1.249	1.375	1.750	2.163	0.250	1.110	2.480	1/2"X13	0.984	1.496	28.93
286JM	5.250	5.250	0.630	3.006	1.249	1.375	1.750	2.163	0.250	1.110	2.480	1/2"X13	0.984	1.496	30.47
324JM	5.250	5.250	0.630	3.006	1.249	1.375	1.750	2.360	0.250	1.110	2.480	1/2"X13	0.984	1.496	32.32
326JM	5.250	5.250	0.630	3.006	1.249	1.375	1.750	2.360	0.250	1.110	2.480	1/2"X13	0.984	1.496	32.32
364JM	5.250	5.250	0.630	3.006	1.249	1.375	1.750	2.756	0.250	1.110	2.480	1/2"X13	0.984	1.496	32.80
365JM	5.250	5.250	0.630	3.006	1.249	1.375	1.750	2.756	0.250	1.110	2.480	1/2"X13	0.984	1.496	33.78

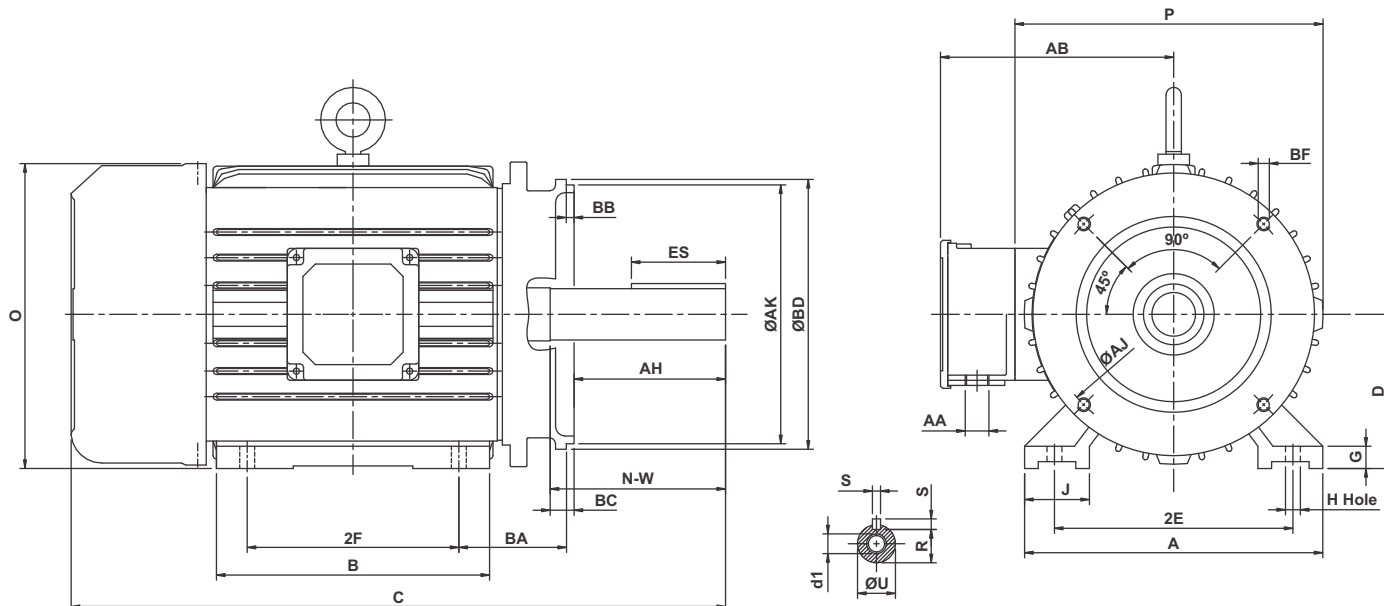
All dimensions in inches unless otherwise noted.

# Motor dimensions

## Single-stage end-suction pumps

TES

### TC & TSC frame



Frame size	Mounting				A	B	D	G	J	O	P	AB	AA	AJ	AK	BB	BC	BD	BF	
	2E	2F	H	BA															Qty.	Tape size
404TC	15.98	12.24	0.807	6.62	20.00	16.73	10.00	1.65	3.93	19.60	19.76	16.30	3"	11.00	12.50	0.250	0.250	15.55	8	UNC 5/8"X11
405TC	15.98	13.74	0.807	6.62	20.00	16.73	10.00	1.65	3.93	19.60	19.76	16.30	3"	11.00	12.50	0.250	0.250	15.55	8	UNC 5/8"X11
405TSC	15.98	13.74	0.807	6.62	20.00	16.73	10.00	1.65	3.93	19.60	19.76	16.30	3"	11.00	12.50	0.250	0.250	15.55	8	UNC 5/8"X11
444TC	18.00	14.50	0.807	7.50	21.26	19.29	11.00	1.65	3.93	21.85	22.12	17.50	3"	14.00	16.00	0.250	0.250	17.91	8	UNC 5/8"X11
444TSC	18.00	14.50	0.807	7.50	21.26	19.29	11.00	1.65	3.93	21.85	22.12	17.50	3"	14.00	16.00	0.250	0.250	17.91	8	UNC 5/8"X11
445TC	18.00	16.50	0.807	7.50	21.26	19.29	11.00	1.65	3.93	21.85	22.12	17.50	3"	14.00	16.00	0.250	0.250	17.91	8	UNC 5/8"X11
445TSC	18.00	16.50	0.807	7.50	21.26	19.29	11.00	1.65	3.93	21.85	22.12	17.50	3"	14.00	16.00	0.250	0.250	17.91	8	UNC 5/8"X11
505TC	20.00	18.00	1.250	8.50	24.40	20.98	12.50	1.81	4.40	24.21	23.62	19.37	3"	14.50	16.50	0.250	0.250	17.91	8	UNC 5/8"X11
505TSC	20.00	18.00	1.250	8.50	24.40	20.98	12.50	1.81	4.40	24.21	23.62	19.37	3"	14.50	16.50	0.250	0.250	17.91	8	UNC 5/8"X11

Frame size	Lengths	Shaft extension		Keyway			C
	AH	N-W	U	S	R	ES	
404TC	7.000	7.250	2.875	0.750	2.449	5.512	38.46
405TC	7.000	7.250	2.875	0.750	2.449	5.512	38.46
405TSC	4.000	4.250	2.125	0.500	1.842	2.756	35.47
444TC	8.250	8.500	3.375	0.875	2.880	7.087	42.79
444TSC	4.500	4.750	2.375	0.625	2.021	3.000	39.05
445TC	8.250	8.500	3.375	0.875	2.880	7.087	42.79
445TSC	4.500	4.750	2.375	0.625	2.021	3.000	39.05
505TC	10.37	10.63	3.625	0.875	3.134	8.661	49.45
505TSC	4.500	4.750	2.375	0.625	2.021	3.000	43.57

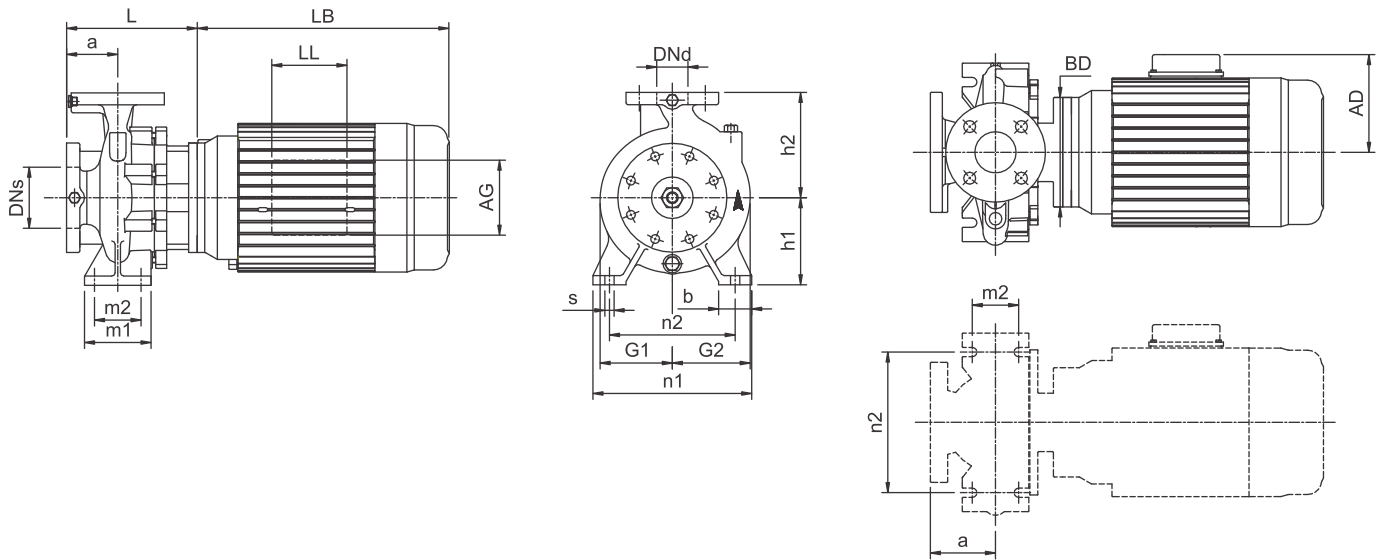
All dimensions in inches unless otherwise noted.

# Technical data

## Single-stage end-suction pumps

# TES 32-1251 2-pole

2 POLE

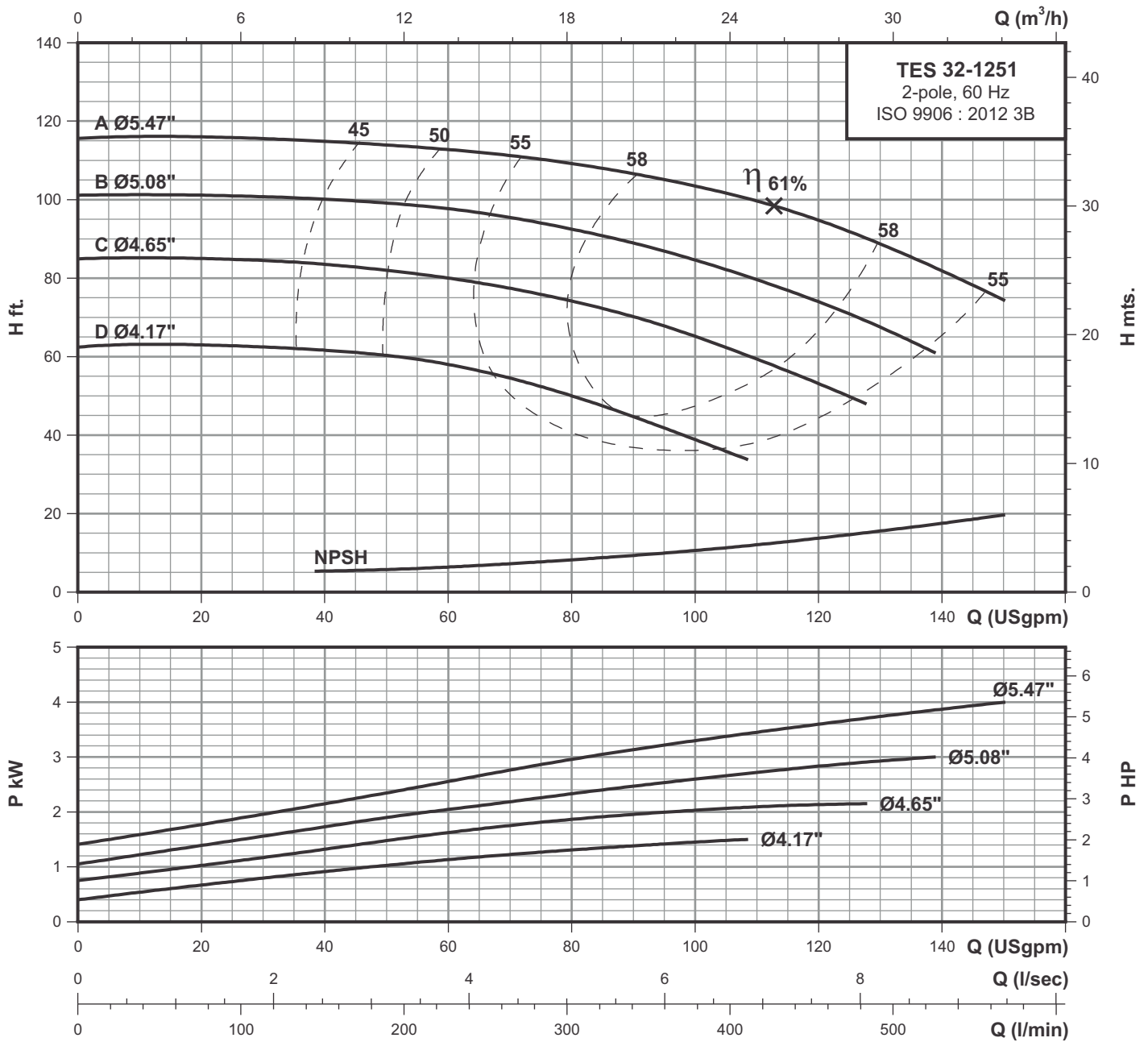


Power	(hp)	2	3	4	5
	(kw)	1.5	2.2	3	3.7
Frame		145JM	182JM	184JM	184JM
ANSI flange		125	125	125	125
Code for Impeller diameter		D	C	B	A
DN <sub>s</sub>	inch(mm)	2.00(50)	2.00(50)	2.00(50)	2.00(50)
DN <sub>d</sub>	inch(mm)	1.25(32)	1.25(32)	1.25(32)	1.25(32)
a	inch(mm)	3.15(80)	3.15(80)	3.15(80)	3.15(80)
h <sub>2</sub>	inch(mm)	5.51(140)	5.51(140)	5.51(140)	5.51(140)
L	inch(mm)	6.85(174)	6.85(174)	6.85(174)	6.85(174)
h <sub>1</sub>	inch(mm)	4.41(112)	4.41(112)	4.41(112)	4.41(112)
G <sub>1</sub>	inch(mm)	3.54(90)	3.54(90)	3.54(90)	3.54(90)
G <sub>2</sub>	inch(mm)	4.02(102)	4.02(102)	4.02(102)	4.02(102)
m <sub>1</sub>	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
m <sub>2</sub>	inch(mm)	2.76(70)	2.76(70)	2.76(70)	2.76(70)
n <sub>1</sub>	inch(mm)	7.48(190)	7.48(190)	7.48(190)	7.48(190)
n <sub>2</sub>	inch(mm)	5.51(140)	5.51(140)	5.51(140)	5.51(140)
b	inch(mm)	1.97(50)	1.97(50)	1.97(50)	1.97(50)
s	inch(mm)	0.55(14)	0.55(14)	0.55(14)	0.55(14)
D	inch(mm)	-	-	-	-
LB	inch(mm)	11.34(288)	13.31(338)	13.31(338)	13.31(338)
AD	inch(mm)	4.92(125)	6.46(164)	6.46(164)	6.46(164)
AG	inch(mm)	3.98(101)	3.98(101)	3.98(101)	3.98(101)
LL	inch(mm)	3.39(86)	3.98(101)	3.98(101)	3.98(101)
BD	inch(mm)	6.50(165)	6.50(165)	6.50(165)	6.50(165)
BA	inch(mm)	-	-	-	-
2F	inch(mm)	-	-	-	-
2E	inch(mm)	-	-	-	-
H	inch(mm)	-	-	-	-
Net Weight	lbs(kg)	95(43)	124(56)	129(59)	134(61)
Gross Weight	lbs(kg)	117(53)	146(66)	151(69)	156(71)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	3.67(0.104)	3.67(0.104)	3.67(0.104)	3.67(0.104)

# Performance curves

Single-stage end-suction pumps

## TES 32-1251 2-pole



### Performance data at n=3450 rpm

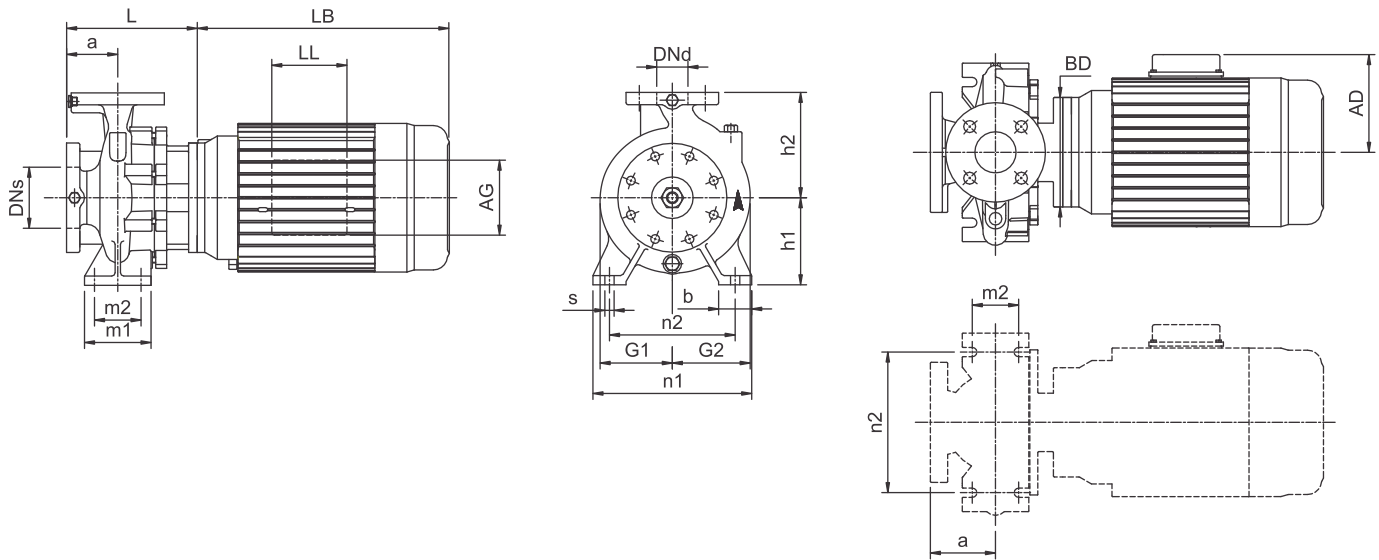
Model	Power		l/min USgpm	76	151	227	303	379	454	530
	HP	KW		20	40	60	80	100	120	140
TES 32-1251D	2.00	1.50	H ft.	62.8	61.6	58.1	50	39.1	-	-
TES 32-1251C	3.00	2.20		85	83.4	80	74	65.3	53.2	-
TES 32-1251B	4.00	3.00		101.2	100.2	97.7	92.6	85	74	-
TES 32-1251A	5.00	3.70		115.8	114.8	112.8	109.1	103.7	95	82.1

# Technical data

## Single-stage end-suction pumps

# TES 32-1601 2-pole

2 POLE



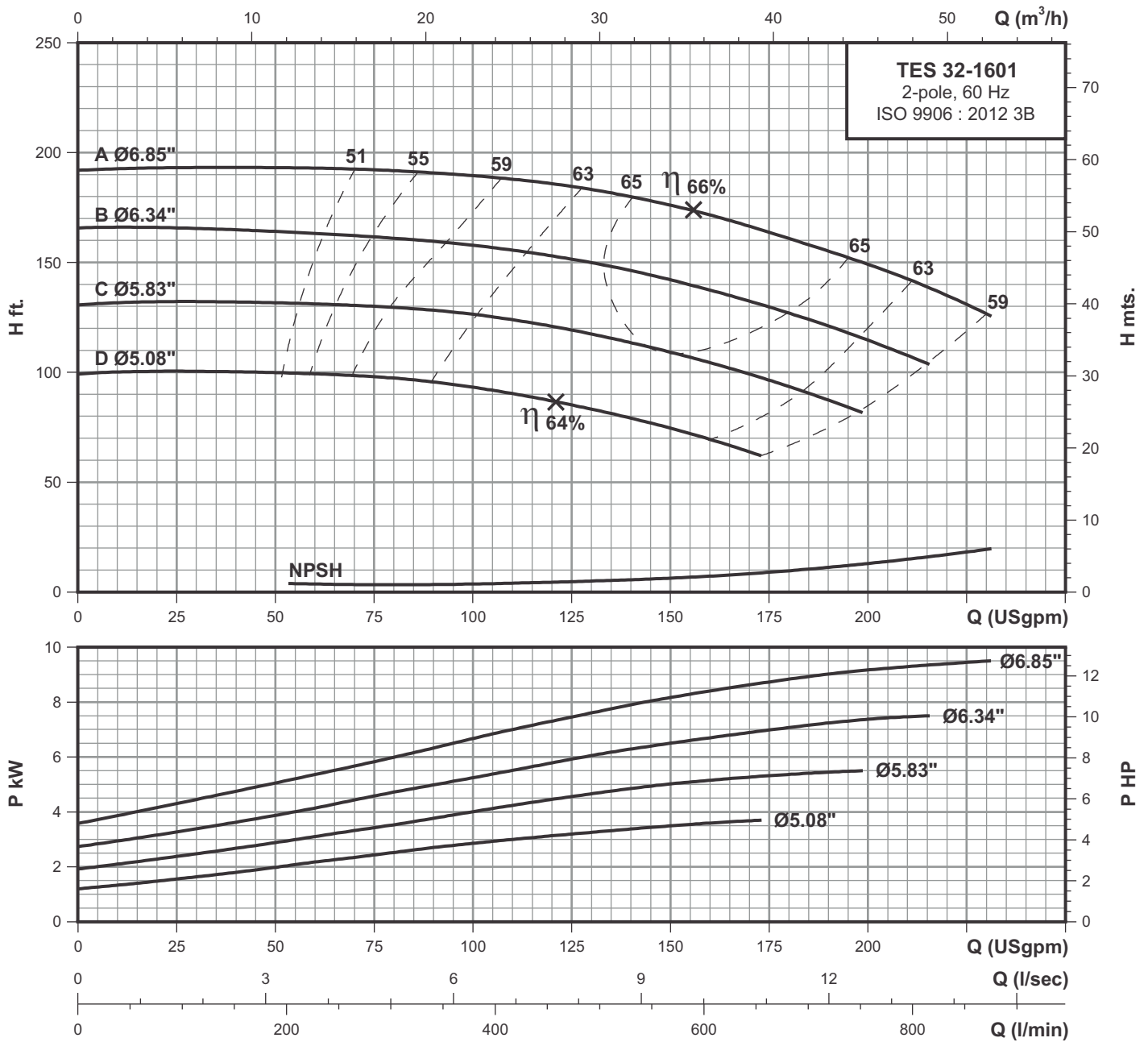
Power	(hp)	5	7.5	10	15
	(kw)	3.7	5.5	7.5	11
Frame		184JM	184JM	215JM	215JM
ANSI flange		125	125	125	125
Code for Impeller diameter		D	C	B	A
DN <sub>s</sub>	inch(mm)	2.00(50)	2.00(50)	2.00(50)	2.00(50)
DN <sub>d</sub>	inch(mm)	1.25(32)	1.25(32)	1.25(32)	1.25(32)
a	inch(mm)	3.15(80)	3.15(80)	3.15(80)	3.15(80)
h <sub>2</sub>	inch(mm)	6.30(160)	6.30(160)	6.30(160)	6.30(160)
L	inch(mm)	6.85(174)	6.85(174)	6.85(174)	6.85(174)
h <sub>1</sub>	inch(mm)	5.20(132)	5.20(132)	5.20(132)	5.20(132)
G <sub>1</sub>	inch(mm)	4.41(112)	4.41(112)	4.41(112)	4.41(112)
G <sub>2</sub>	inch(mm)	4.88(124)	4.88(124)	4.88(124)	4.88(124)
m <sub>1</sub>	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
m <sub>2</sub>	inch(mm)	2.76(70)	2.76(70)	2.76(70)	2.76(70)
n <sub>1</sub>	inch(mm)	9.45(240)	9.45(240)	9.45(240)	9.45(240)
n <sub>2</sub>	inch(mm)	7.48(190)	7.48(190)	7.48(190)	7.48(190)
b	inch(mm)	1.97(50)	1.97(50)	1.97(50)	1.97(50)
s	inch(mm)	0.55(14)	0.55(14)	0.55(14)	0.55(14)
D	inch(mm)	-	-	-	-
LB	inch(mm)	13.31(338)	13.31(338)	16.42(417)	16.42(417)
AD	inch(mm)	6.46(164)	6.46(164)	7.40(188)	7.40(188)
AG	inch(mm)	3.98(101)	3.98(101)	5.16(131)	5.16(131)
LL	inch(mm)	3.98(101)	3.98(101)	5.16(131)	5.16(131)
BD	inch(mm)	6.50(165)	6.50(165)	8.86(225)	8.86(225)
BA	inch(mm)	-	-	-	-
2F	inch(mm)	-	-	-	-
2E	inch(mm)	-	-	-	-
H	inch(mm)	-	-	-	-
Net Weight	lbs(kg)	141(64)	157(71)	213(97)	235(107)
Gross Weight	lbs(kg)	163(74)	179(81)	235(107)	257(117)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	3.67(0.104)	3.67(0.104)	5.01(0.142)	5.01(0.142)



# Performance curves

Single-stage end-suction pumps

## TES 32-1601 2-pole



### Performance data at n=3450 rpm

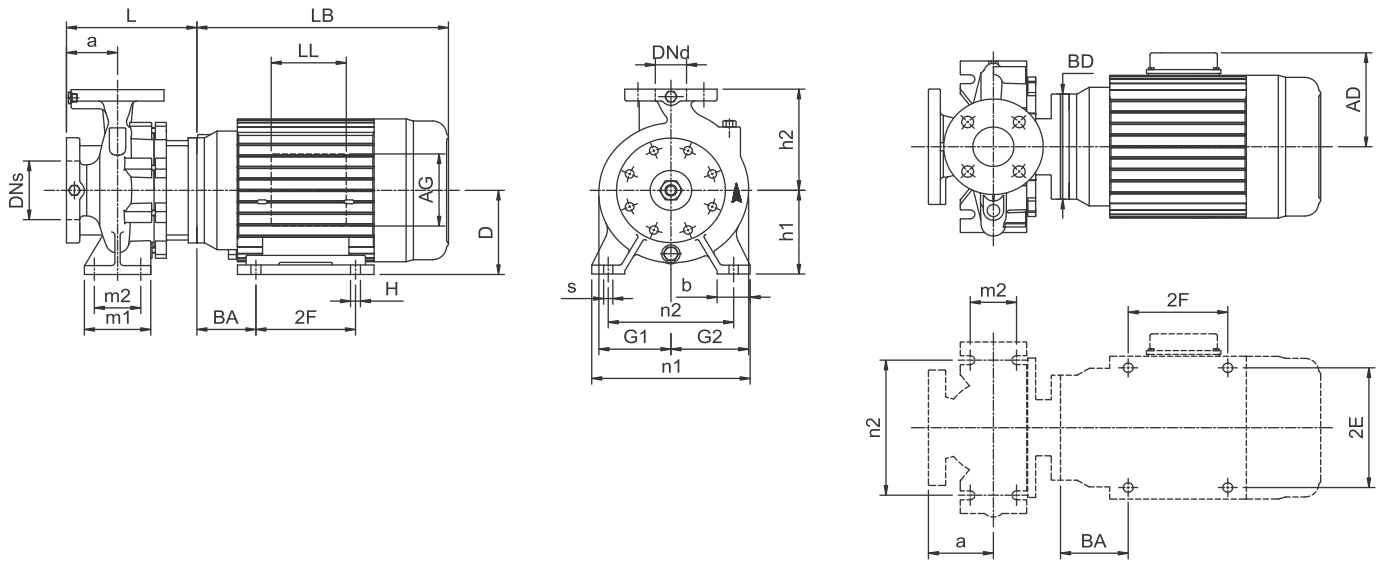
Model	Power		l/min USgpm	95	189	284	379	473	568	662	757	852
	HP	KW		25	50	75	100	125	150	175	200	225
TES 32-1601D	5.00	3.70	H ft.	100.5	100	98	93.1	85.1	74.7	-	-	-
TES 32-1601C	7.50	5.50		132	131.3	130.1	126.4	119.6	109.1	96.8	-	-
TES 32-1601B	10.0	7.50		165.7	164	161.8	158	151.3	142.5	129.8	114.3	-
TES 32-1601A	15	11.0		193	193	192.3	189.8	184.5	176.3	163.8	149	131.2

# Technical data

## Single-stage end-suction pumps

# TES 32-2001 2-pole

2 POLE

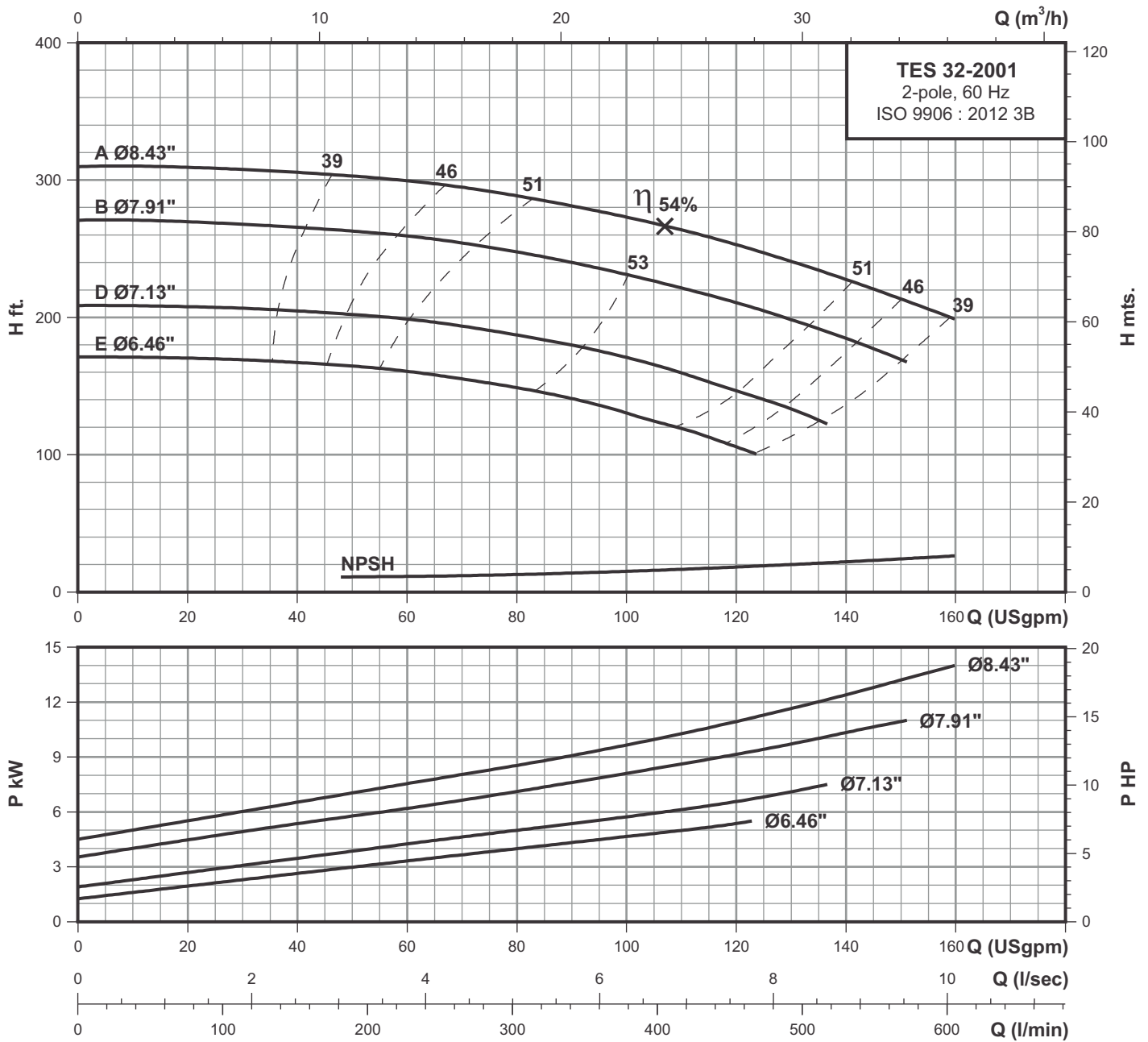


Power	(hp)	7.5	10	15	20
	(kw)	5.5	7.5	11	15
Frame		184JM	215JM	215JM	256JM
ANSI flange		125	125	125	250
Code for Impeller diameter		E	D	B	A
DNs	inch(mm)	2.00(50)	2.00(50)	2.00(50)	2.00(50)
Dnd	inch(mm)	1.25(32)	1.25(32)	1.25(32)	1.25(32)
a	inch(mm)	3.15(80)	3.15(80)	3.15(80)	3.15(80)
h2	inch(mm)	7.09(180)	7.09(180)	7.09(180)	7.09(180)
L	inch(mm)	6.85(174)	6.85(174)	6.85(174)	7.48(190)
h1	inch(mm)	6.30(160)	6.30(160)	6.30(160)	6.30(160)
G1	inch(mm)	4.96(126)	4.96(126)	4.96(126)	4.96(126)
G2	inch(mm)	5.24(133)	5.24(133)	5.24(133)	5.24(133)
m1	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
m2	inch(mm)	2.76(70)	2.76(70)	2.76(70)	2.76(70)
n1	inch(mm)	9.45(240)	9.45(240)	9.45(240)	9.45(240)
n2	inch(mm)	7.48(190)	7.48(190)	7.48(190)	7.48(190)
b	inch(mm)	1.97(50)	1.97(50)	1.97(50)	1.97(50)
s	inch(mm)	0.55(14)	0.55(14)	0.55(14)	0.55(14)
D	inch(mm)	-	-	-	6.25(159)
LB	inch(mm)	13.31(338)	16.42(417)	16.42(417)	20.83(529)
AD	inch(mm)	6.46(164)	7.40(188)	7.40(188)	9.49(241)
AG	inch(mm)	3.98(101)	5.16(131)	5.16(131)	6.73(171)
LL	inch(mm)	3.98(101)	5.16(131)	5.16(131)	5.98(152)
BD	inch(mm)	6.50(165)	8.86(225)	8.86(225)	10.00(254)
BA	inch(mm)	-	-	-	4.25(108)
2F	inch(mm)	-	-	-	10.00(254)
2E	inch(mm)	-	-	-	10.00(254)
H	inch(mm)	-	-	-	0.53(13.5)
Net Weight	lbs(kg)	167(76)	224(102)	246(112)	345(157)
Gross Weight	lbs(kg)	189(86)	246(112)	268(122)	462(210)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	3.67(0.104)	5.01(0.142)	5.01(0.142)	12.64(0.358)

# Performance curves

Single-stage end-suction pumps

## TES 32-2001 2-pole



### Performance data at n=3450 rpm

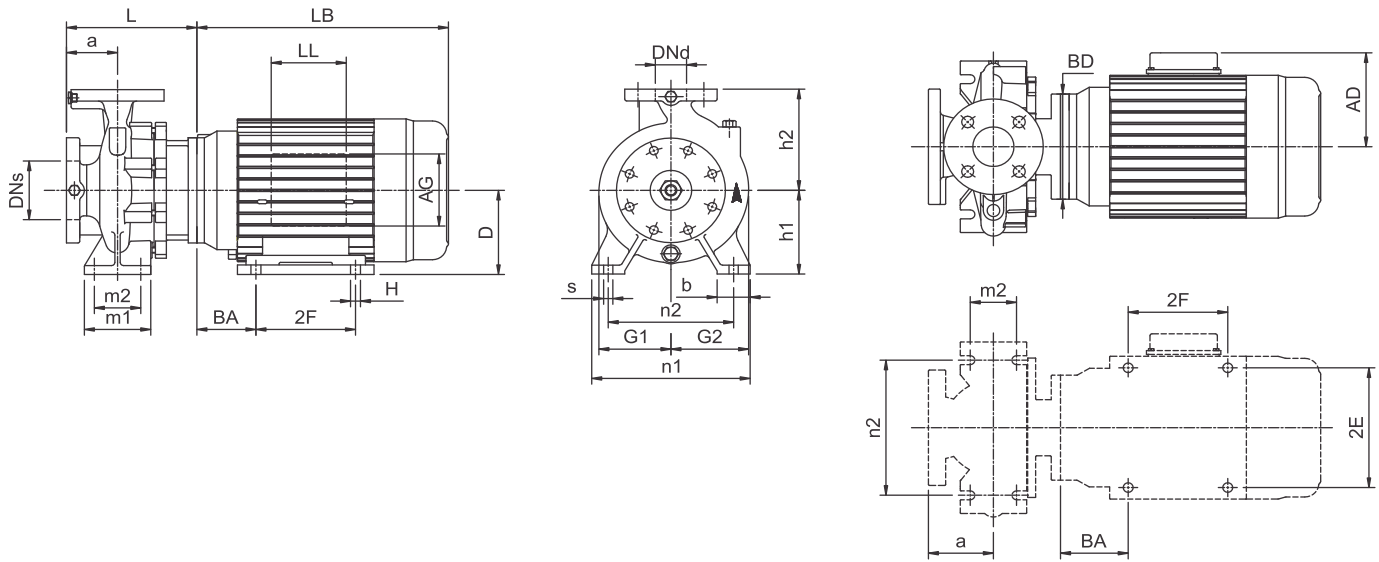
Model	Power		l/min USgpm	76	151	227	303	379	454	530	606
	HP	kW		20	40	60	80	100	120	140	160
TES 32-2001E	7.50	5.50	H ft.	170.4	167.4	160.5	148.6	130.7	105	-	-
TES 32-2001D	10.0	7.50		208	205.1	199.1	187.2	170.3	146.6	-	-
TES 32-2001B	15.0	11.0		269.3	265.8	258.9	247.8	231.4	210.8	185	-
TES 32-2001A	20.0	15.0		309.3	305.7	299.4	288.4	273	253.8	227.4	198.3

# Technical data

## Single-stage end-suction pumps

# TES 32-200L1 2-pole

2 POLE

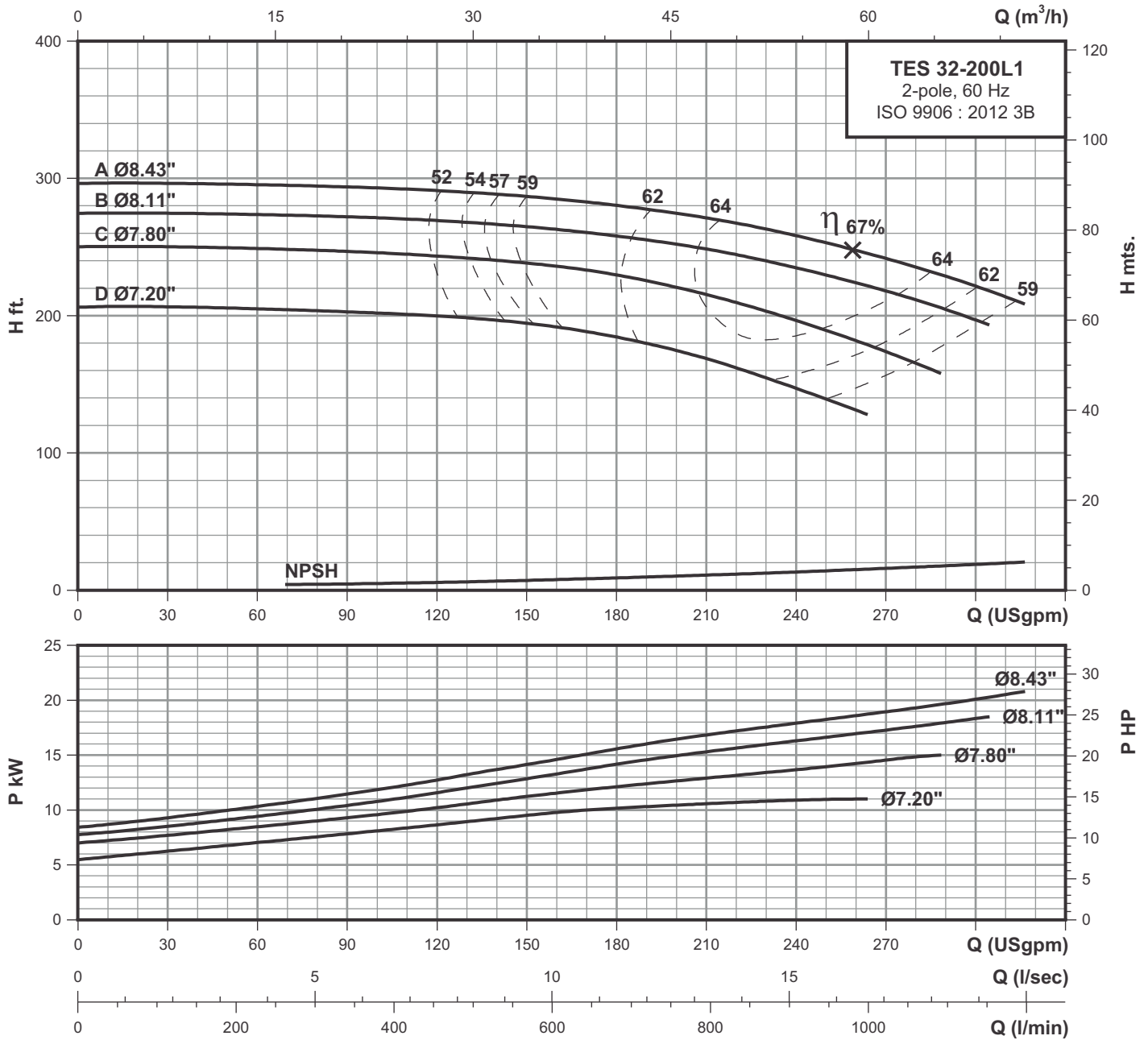


Power	(hp)	15	20	25	30
	(kw)	11	15	18.5	22
Frame		215JM	256JM	284JM	286JM
ANSI flange		125	125	125	250
Code for Impeller diameter		D	C	B	A
DNs	inch(mm)	2.00(50)	2.00(50)	2.00(50)	2.00(50)
Dnd	inch(mm)	1.25(32)	1.25(32)	1.25(32)	1.25(32)
a	inch(mm)	3.15(80)	3.15(80)	3.15(80)	3.15(80)
h2	inch(mm)	7.09(180)	7.09(180)	7.09(180)	7.09(180)
L	inch(mm)	6.85(174)	7.48(190)	7.48(190)	7.48(190)
h1	inch(mm)	6.30(160)	6.30(160)	6.30(160)	6.30(160)
G1	inch(mm)	5.31(135)	5.31(135)	5.31(135)	5.31(135)
G2	inch(mm)	5.79(147)	5.79(147)	5.79(147)	5.79(147)
m1	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
m2	inch(mm)	2.76(70)	2.76(70)	2.76(70)	2.76(70)
n1	inch(mm)	9.45(240)	9.45(240)	9.45(240)	9.45(240)
n2	inch(mm)	7.48(190)	7.48(190)	7.48(190)	7.48(190)
b	inch(mm)	1.97(50)	1.97(50)	1.97(50)	1.97(50)
s	inch(mm)	0.55(14)	0.55(14)	0.55(14)	0.55(14)
D	inch(mm)	-	6.25(159)	7.00(178)	7.00(178)
LB	inch(mm)	16.42(417)	20.83(529)	23.70(602)	25.24(641)
AD	inch(mm)	7.40(188)	9.49(241)	11.57(294)	11.57(294)
AG	inch(mm)	5.16(131)	6.73(171)	10.35(263)	10.35(263)
LL	inch(mm)	5.16(131)	5.98(152)	7.68(195)	7.68(195)
BD	inch(mm)	8.86(225)	10.00(254)	14.00(356)	14.00(356)
BA	inch(mm)	-	4.25(108)	4.76(121)	4.76(121)
2F	inch(mm)	-	10.00(254)	9.50(241)	9.50(241)
2E	inch(mm)	-	10.00(254)	11.00(279)	11.00(279)
H	inch(mm)	-	0.53(13.5)	0.53(13.5)	0.53(13.5)
Net Weight	lbs(kg)	242(110)	341(155)	514(234)	547(249)
Gross Weight	lbs(kg)	264(120)	458(208)	630(287)	670(305)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	5.01(0.142)	12.64(0.358)	12.64(0.358)	13.54(0.383)

# Performance curves

Single-stage end-suction pumps

## TES 32-200L1 2-pole



**2 POLE**

### Performance data at n=3450 rpm

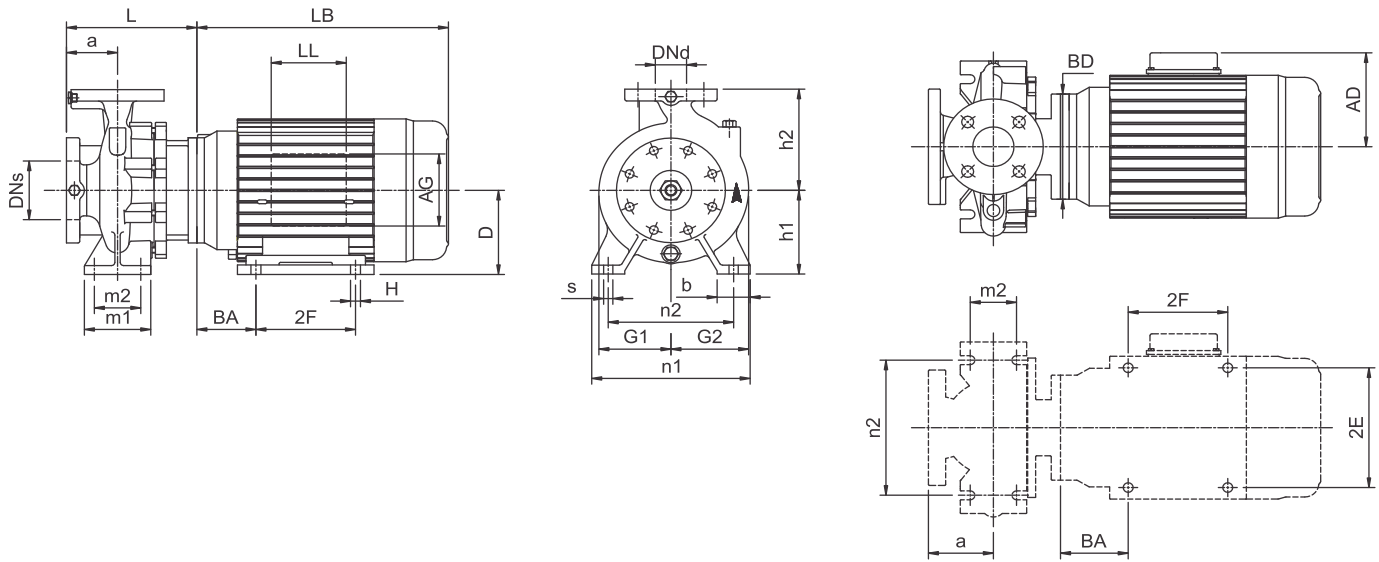
Model	Power		l/min USgpm	114	227	341	454	568	681	795	909	1022	1136
	HP	kW		30	60	90	120	150	180	210	240	270	300
TES 32-200L1D	15.0	11.0	H ft.	206.4	204.8	203.2	199.8	194.1	185.1	169.5	147.4	-	-
TES 32-200L1C	20.0	15.0		250.4	248.6	246.8	243.2	238.7	229.8	215.5	196.7	174.2	-
TES 32-200L1B	25.0	18.5		275	274	272	269.2	264.4	257.8	249.3	235.2	218.1	196.3
TES 32-200L1A	30.0	22.0		296.1	295.1	294.2	291.2	286.3	280.4	271.5	258.7	242.1	221.4

# Technical data

## Single-stage end-suction pumps

# TES 32-2501 2-pole

2 POLE

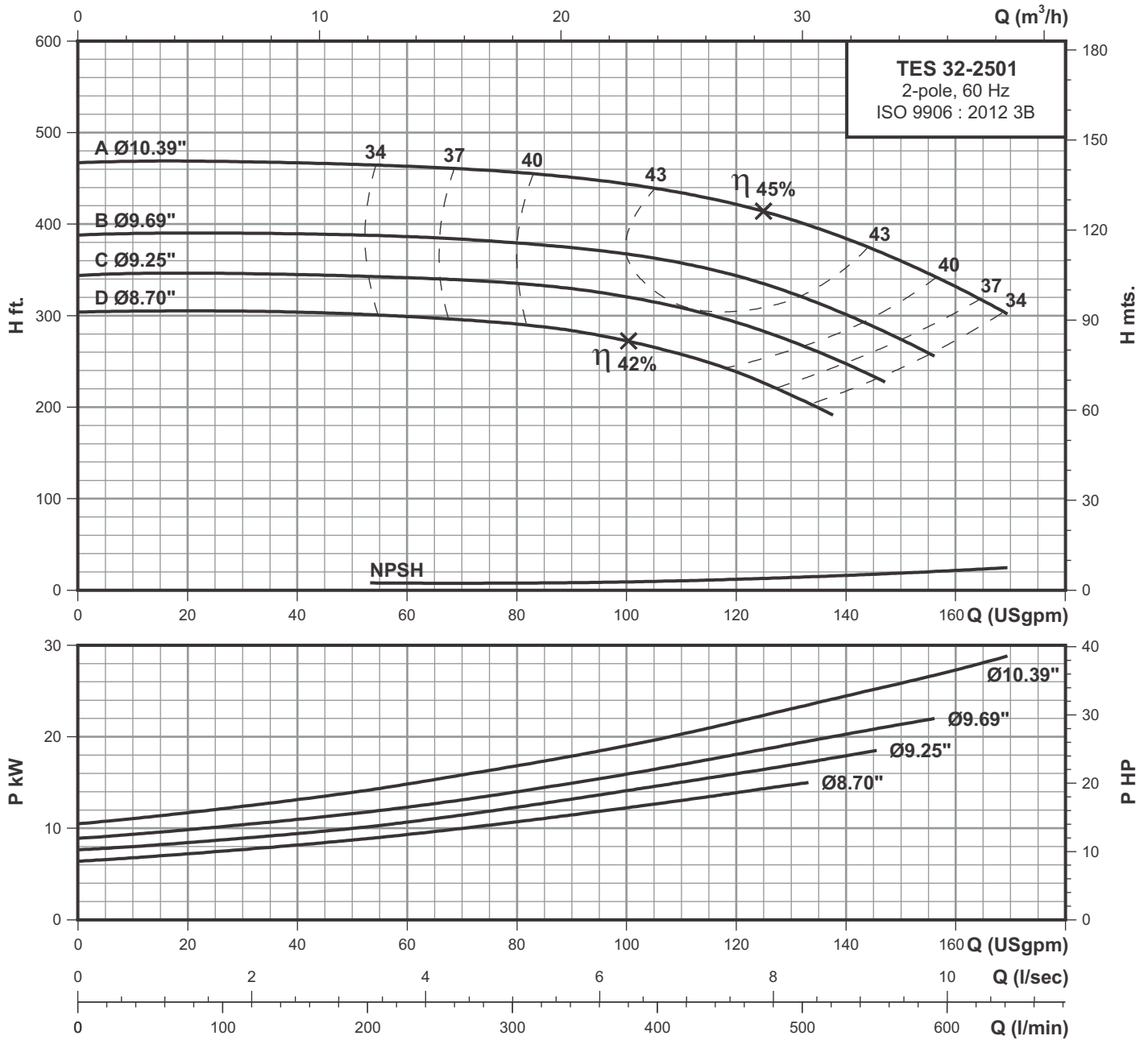


Power	(hp)	20	25	30	40
	(kw)	15	18.5	22	30
Frame		256JM	284JM	286JM	324JM
ANSI flange		250	250	250	250
Code for Impeller diameter		D	C	B	A
DNs	inch(mm)	2.00(50)	2.00(50)	2.00(50)	2.00(50)
Dnd	inch(mm)	1.25(32)	1.25(32)	1.25(32)	1.25(32)
a	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
h2	inch(mm)	8.86(225)	8.86(225)	8.86(225)	8.86(225)
L	inch(mm)	8.86(225)	8.86(225)	8.86(225)	8.86(225)
h1	inch(mm)	7.09(180)	7.09(180)	7.09(180)	7.09(180)
G1	inch(mm)	5.91(150)	5.91(150)	5.91(150)	5.91(150)
G2	inch(mm)	6.06(154)	6.06(154)	6.06(154)	6.06(154)
m1	inch(mm)	4.92(125)	4.92(125)	4.92(125)	4.92(125)
m2	inch(mm)	3.74(95)	3.74(95)	3.74(95)	3.74(95)
n1	inch(mm)	12.60(320)	12.60(320)	12.60(320)	12.60(320)
n2	inch(mm)	9.84(250)	9.84(250)	9.84(250)	9.84(250)
b	inch(mm)	2.56(65)	2.56(65)	2.56(65)	2.56(65)
s	inch(mm)	0.55(14)	0.55(14)	0.55(14)	0.55(14)
D	inch(mm)	6.25(159)	7.00(178)	7.00(178)	8.00(203)
LB	inch(mm)	20.83(529)	23.70(602)	25.24(641)	27.09(688)
AD	inch(mm)	9.49(241)	11.57(294)	11.57(294)	12.05(306)
AG	inch(mm)	6.73(171)	10.35(263)	10.35(263)	10.35(263)
LL	inch(mm)	5.98(152)	7.68(195)	7.68(195)	7.68(195)
BD	inch(mm)	10.00(254)	14.00(356)	14.00(356)	14.00(356)
BA	inch(mm)	4.25(108)	4.76(121)	4.76(121)	5.25(133)
2F	inch(mm)	10.00(254)	9.50(241)	11.00(279)	10.50(267)
2E	inch(mm)	10.00(254)	11.00(279)	11.00(279)	12.50(318)
H	inch(mm)	0.53(13.5)	0.53(13.5)	0.53(13.5)	0.66(17)
Net Weight	lbs(kg)	370(168)	539(245)	572(260)	695(316)
Gross Weight	lbs(kg)	487(221)	656(298)	695(316)	838(381)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	12.64(0.358)	12.64(0.358)	13.54(0.383)	17.19(0.487)

# Performance curves

Single-stage end-suction pumps

## TES 32-2501 2-pole



**2 POLE**

### Performance data at n=3450 rpm

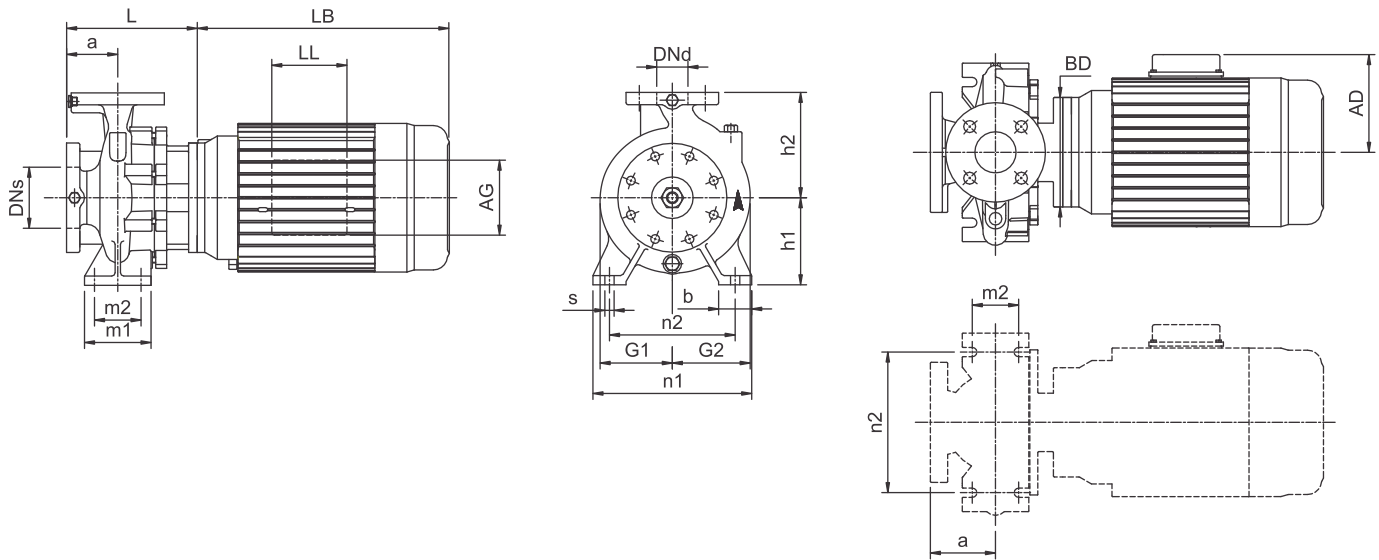
Model	Power		l/min USgpm	76	151	227	303	379	454	530	606
	HP	kW		20	40	60	80	100	120	140	160
TES 32-2501D	20.0	15.0	H ft.	305.2	304.1	299.4	291.2	272.3	239.4	-	-
TES 32-2501C	25.0	18.5		346.8	344.4	341.8	335.5	320.5	293	248.8	-
TES 32-2501B	30.0	22.0		390.4	389.2	386.4	379.7	366.5	343.8	301	-
TES 32-2501A	40.0	30.0		468.7	467.2	463	457.2	444	421	383.4	331.3

# Technical data

## Single-stage end-suction pumps

# TES 40-1251 2-pole

2 POLE



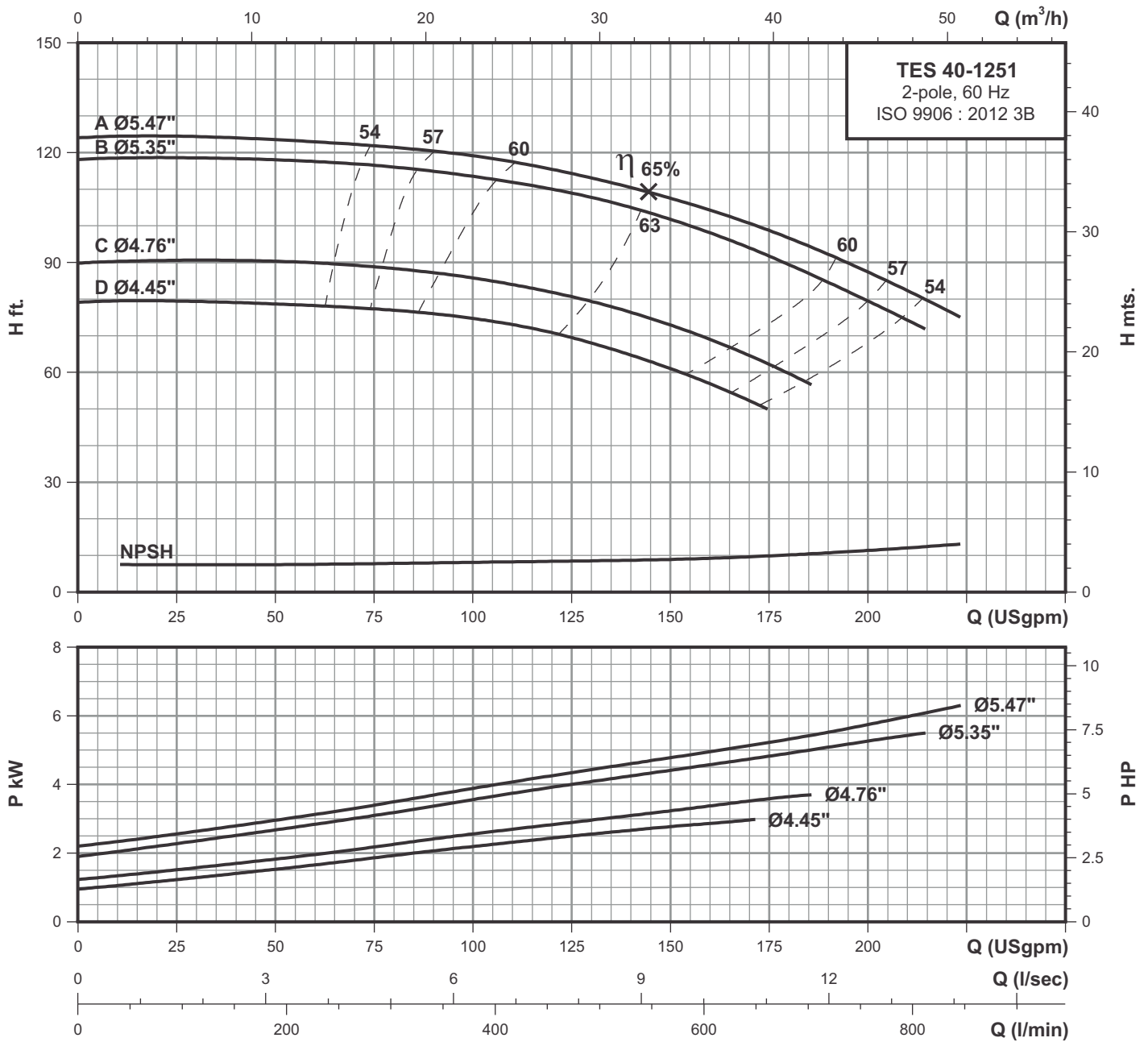
Power	(hp)	4	5	7.5	10
	(kw)	3	3.7	5.5	7.5
Frame		184JM	184JM	184JM	215JM
ANSI flange		125	125	125	125
Code for Impeller diameter		D	C	B	A
DN <sub>s</sub>	inch(mm)	2.50(65)	2.50(65)	2.50(65)	2.50(65)
DN <sub>d</sub>	inch(mm)	1.50(40)	1.50(40)	1.50(40)	1.50(40)
a	inch(mm)	3.15(80)	3.15(80)	3.15(80)	3.15(80)
h <sub>2</sub>	inch(mm)	5.51(140)	5.51(140)	5.51(140)	5.51(140)
L	inch(mm)	6.85(174)	6.85(174)	6.85(174)	6.85(174)
h <sub>1</sub>	inch(mm)	4.41(112)	4.41(112)	4.41(112)	4.41(112)
G <sub>1</sub>	inch(mm)	3.82(97)	3.82(97)	3.82(97)	3.82(97)
G <sub>2</sub>	inch(mm)	4.37(111)	4.37(111)	4.37(111)	4.37(111)
m <sub>1</sub>	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
m <sub>2</sub>	inch(mm)	2.76(70)	2.76(70)	2.76(70)	2.76(70)
n <sub>1</sub>	inch(mm)	8.27(210)	8.27(210)	8.27(210)	8.27(210)
n <sub>2</sub>	inch(mm)	6.30(160)	6.30(160)	6.30(160)	6.30(160)
b	inch(mm)	1.97(50)	1.97(50)	1.97(50)	1.97(50)
s	inch(mm)	0.55(14)	0.55(14)	0.55(14)	0.55(14)
D	inch(mm)	-	-	-	-
LB	inch(mm)	13.31(338)	13.31(338)	13.31(338)	16.42(417)
AD	inch(mm)	6.46(164)	6.46(164)	6.46(164)	7.40(188)
AG	inch(mm)	3.98(101)	3.98(101)	3.98(101)	5.16(131)
LL	inch(mm)	3.98(101)	3.98(101)	3.98(101)	5.16(131)
BD	inch(mm)	6.50(165)	6.50(165)	6.50(165)	8.86(225)
BA	inch(mm)	-	-	-	-
2F	inch(mm)	-	-	-	-
2E	inch(mm)	-	-	-	-
H	inch(mm)	-	-	-	-
Net Weight	lbs(kg)	134(61)	139(63)	155(71)	212(97)
Gross Weight	lbs(kg)	156(71)	161(73)	177(81)	234(107)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	3.67(0.104)	3.67(0.104)	3.67(0.104)	5.01(0.142)



# Performance curves

Single-stage end-suction pumps

## TES 40-1251 2-pole



### Performance data at n=3450 rpm

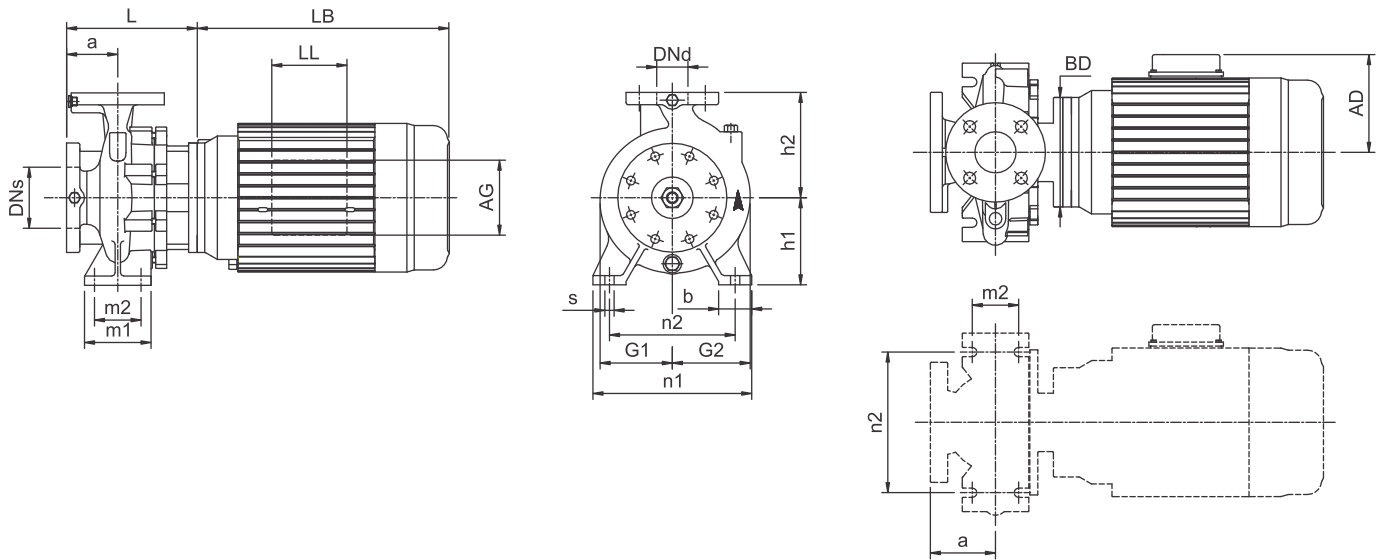
Model	Power		l/min USgpm	95	189	284	379	473	568	662	757
	HP	kW		25	50	75	100	125	150	175	200
TES 40-1251D	4.00	3.00	H ft.	79.4	78.7	77.3	74.7	69.2	60.9	-	-
TES 40-1251C	5.00	3.70		90.5	90.2	88.7	86	80.7	73	62.2	-
TES 40-1251B	7.50	5.50		118.5	118.1	116.5	113.5	109	102	92	79.5
TES 40-1251A	10.0	7.50		124.6	123.5	121.8	119.1	114.3	107.7	98.8	87.4

# Technical data

## Single-stage end-suction pumps

# TES 40-125L1 2-pole

2 POLE

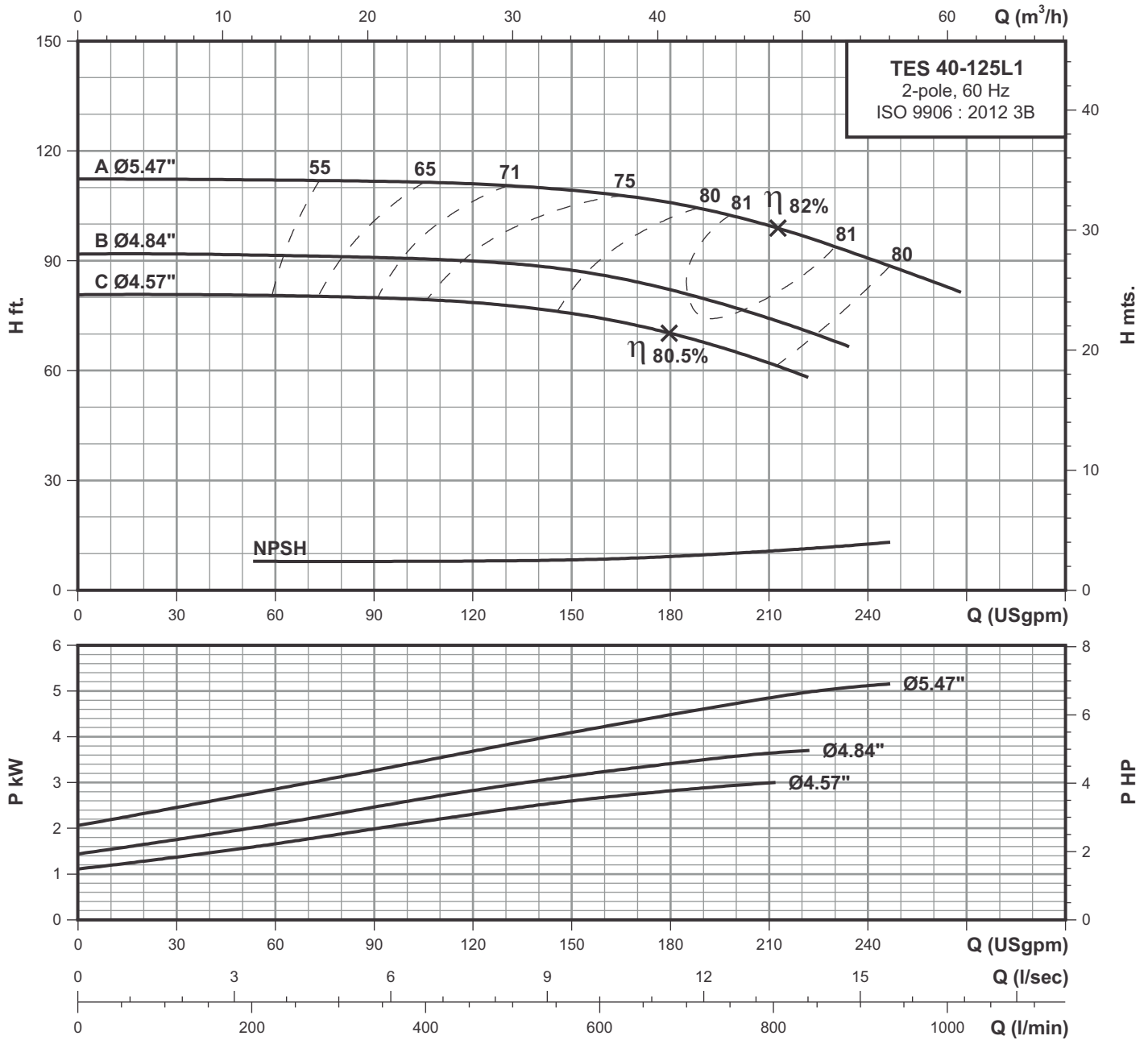


Power	(hp)	4	5	7.5
	(kw)	3	3.7	5.5
Frame		184JM	184JM	184JM
ANSI flange		125	125	125
Code for Impeller diameter		C	B	A
DNs	inch(mm)	2.50(65)	2.50(65)	2.50(65)
Dnd	inch(mm)	1.50(40)	1.50(40)	1.50(40)
a	inch(mm)	3.15(80)	3.15(80)	3.15(80)
h2	inch(mm)	5.51(140)	5.51(140)	5.51(140)
L	inch(mm)	6.85(174)	6.85(174)	6.85(174)
h1	inch(mm)	4.41(112)	4.41(112)	4.41(112)
G1	inch(mm)	4.13(105)	4.13(105)	4.13(105)
G2	inch(mm)	4.53(115)	4.53(115)	4.53(115)
m1	inch(mm)	3.94(100)	3.94(100)	3.94(100)
m2	inch(mm)	2.76(70)	2.76(70)	2.76(70)
n1	inch(mm)	8.27(210)	8.27(210)	8.27(210)
n2	inch(mm)	6.30(160)	6.30(160)	6.30(160)
b	inch(mm)	1.97(50)	1.97(50)	1.97(50)
s	inch(mm)	0.55(14)	0.55(14)	0.55(14)
D	inch(mm)	-	-	-
LB	inch(mm)	13.31(338)	13.31(338)	13.31(338)
AD	inch(mm)	6.46(164)	6.46(164)	6.46(164)
AG	inch(mm)	3.98(101)	3.98(101)	3.98(101)
LL	inch(mm)	3.98(101)	3.98(101)	3.98(101)
BD	inch(mm)	6.50(165)	6.50(165)	6.50(165)
BA	inch(mm)	-	-	-
2F	inch(mm)	-	-	-
2E	inch(mm)	-	-	-
H	inch(mm)	-	-	-
Net Weight	lbs(kg)	135(61)	139(63)	156(71)
Gross Weight	lbs(kg)	157(71)	161(73)	178(81)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	3.67(0.104)	3.67(0.104)	3.67(0.104)

# Performance curves

Single-stage end-suction pumps

## TES 40-125L1 2-pole



**2 POLE**

### Performance data at n=3450 rpm

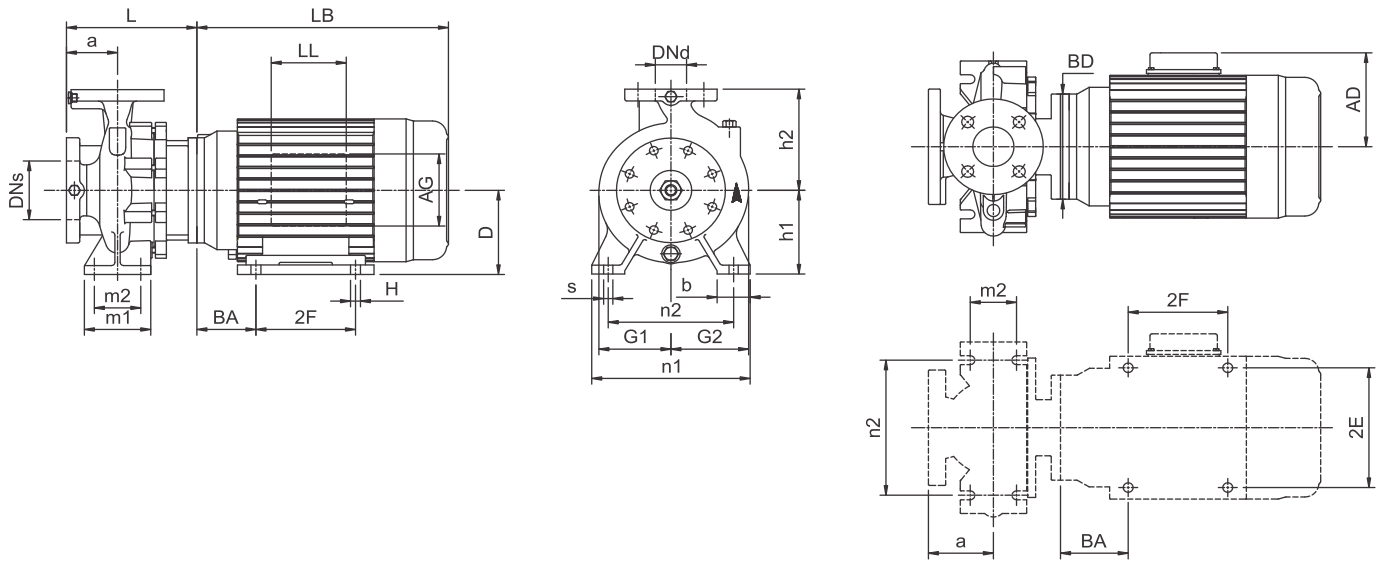
Model	Power		l/min USgpm	114	227	341	454	568	681	795	909
	HP	kW		30	60	90	120	150	180	210	240
TES 40-125L1C	4.00	3.00	H ft.	80.8	80.5	79.8	78.7	75.6	70.3	62.2	-
TES 40-125L1B	5.00	3.70		91.7	91.4	90.7	90	87.5	82.2	74.5	-
TES 40-125L1A	7.50	5.50		112.1	112.1	111.8	111.1	109.3	105.8	99.5	90.7

# Technical data

## Single-stage end-suction pumps

# TES 40-1601 2-pole

2 POLE

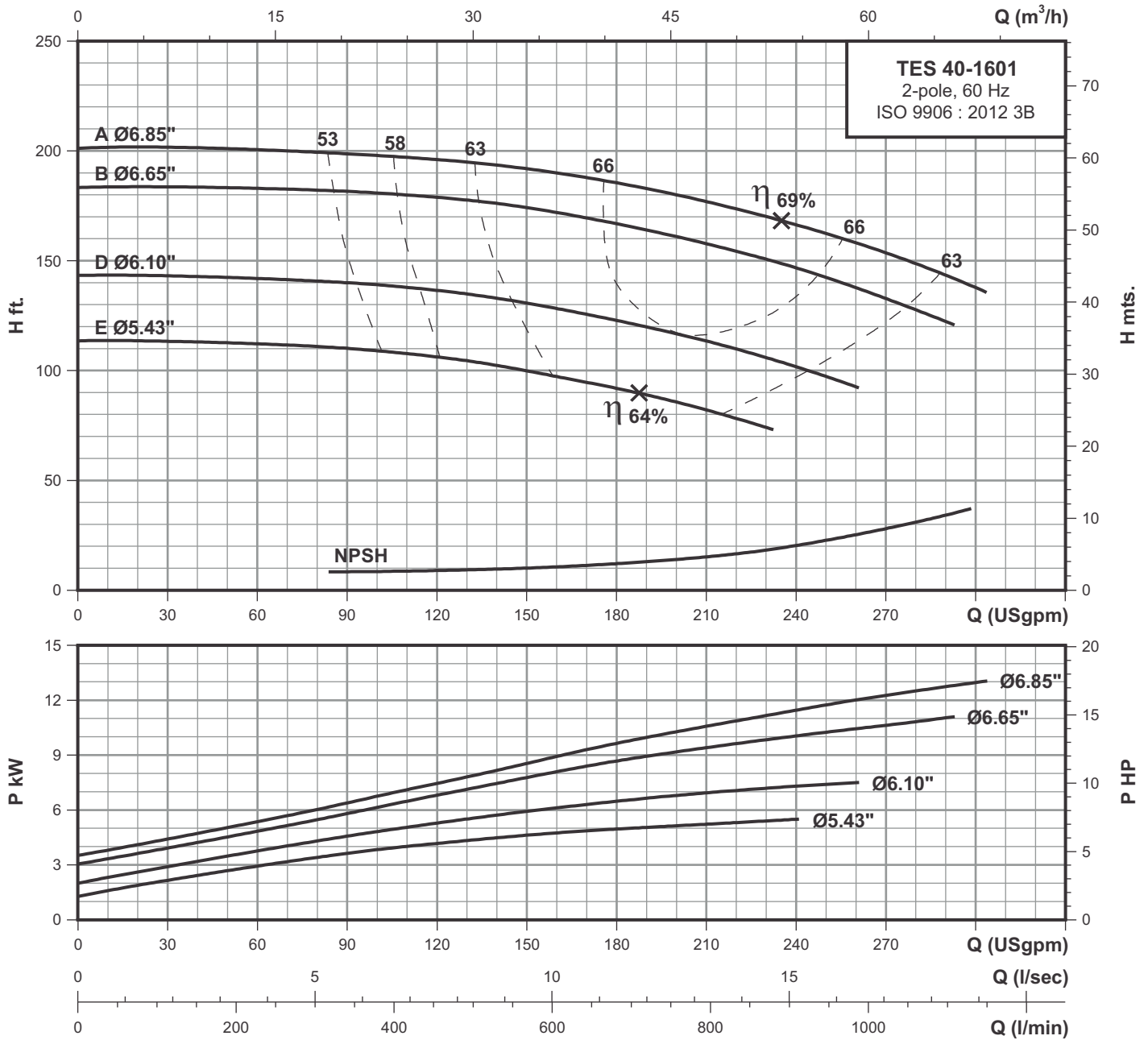


Power	(hp)	7.5	10	15	20
	(kw)	5.5	7.5	11	15
Frame		184JM	215JM	215JM	256JM
ANSI flange		125	125	125	125
Code for Impeller diameter		E	D	B	A
DNs	inch(mm)	2.50(65)	2.50(65)	2.50(65)	2.50(65)
Dnd	inch(mm)	1.50(40)	1.50(40)	1.50(40)	1.50(40)
a	inch(mm)	3.15(80)	3.15(80)	3.15(80)	3.15(80)
h2	inch(mm)	6.30(160)	6.30(160)	6.30(160)	6.30(160)
L	inch(mm)	6.85(174)	6.85(174)	6.85(174)	7.68(195)
h1	inch(mm)	5.20(132)	5.20(132)	5.20(132)	5.20(132)
G1	inch(mm)	4.17(106)	4.17(106)	4.17(106)	4.17(106)
G2	inch(mm)	4.72(120)	4.72(120)	4.72(120)	4.72(120)
m1	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
m2	inch(mm)	2.76(70)	2.76(70)	2.76(70)	2.76(70)
n1	inch(mm)	9.45(240)	9.45(240)	9.45(240)	9.45(240)
n2	inch(mm)	7.48(190)	7.48(190)	7.48(190)	7.48(190)
b	inch(mm)	1.97(50)	1.97(50)	1.97(50)	1.97(50)
s	inch(mm)	0.55(14)	0.55(14)	0.55(14)	0.55(14)
D	inch(mm)	-	-	-	6.25(159)
LB	inch(mm)	13.31(338)	16.42(417)	16.42(417)	20.83(529)
AD	inch(mm)	6.46(164)	7.40(188)	7.40(188)	9.49(241)
AG	inch(mm)	3.98(101)	5.16(131)	5.16(131)	6.73(171)
LL	inch(mm)	3.98(101)	5.16(131)	5.16(131)	5.98(152)
BD	inch(mm)	6.50(165)	8.86(225)	8.86(225)	10.00(254)
BA	inch(mm)	-	-	-	4.25(108)
2F	inch(mm)	-	-	-	10.00(254)
2E	inch(mm)	-	-	-	10.00(254)
H	inch(mm)	-	-	-	0.53(13.5)
Net Weight	lbs(kg)	162(74)	218(99)	240(109)	340(154)
Gross Weight	lbs(kg)	184(84)	240(109)	262(119)	456(207)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	3.67(0.104)	5.01(0.142)	5.01(0.142)	12.64(0.358)

# Performance curves

Single-stage end-suction pumps

## TES 40-1601 2-pole



**2 POLE**

### Performance data at n=3450 rpm

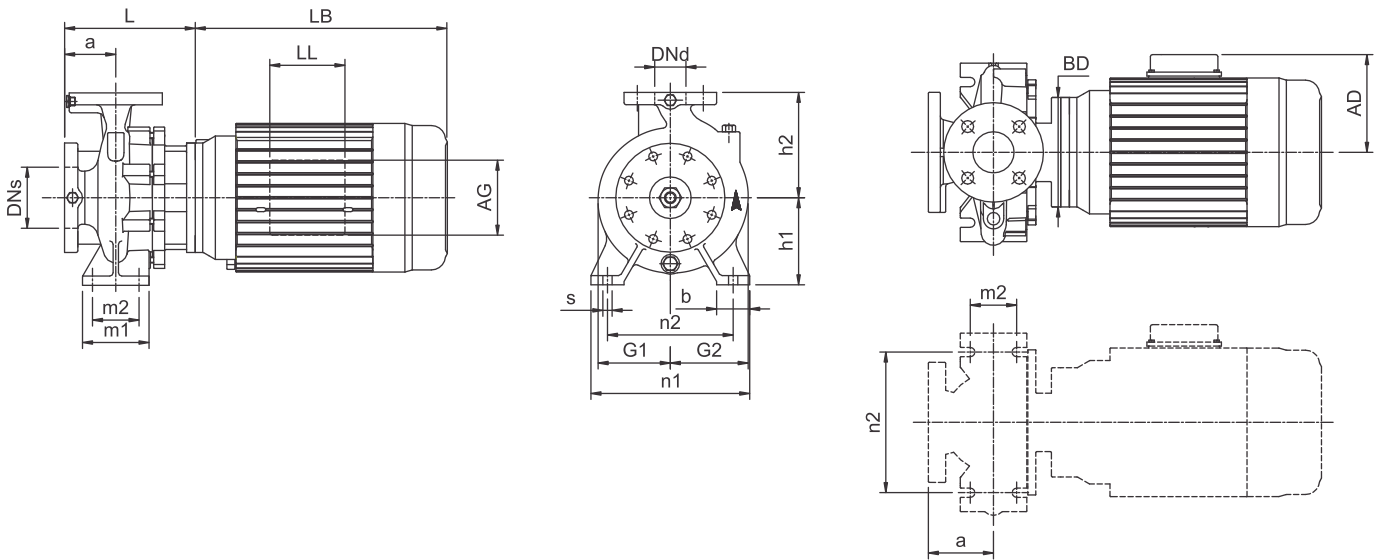
Model	Power		l/min USgpm	114	227	341	454	568	681	795	909	1022	1136
	HP	kW		30	60	90	120	150	180	210	240	270	300
TES 40-1601E	7.50	5.50	H ft.	113	111.9	110.1	106.5	100	91.7	82.2	-	-	-
TES 40-1601D	10.0	7.50		143.3	141.6	139.8	136.2	130.3	122.6	113.7	101.7	-	-
TES 40-1601B	15.0	11.0		183.8	183.1	181.4	179	174.3	167.1	158.2	147	132.7	-
TES 40-1601A	20.0	15.0		201.6	200.4	198.7	196.3	192.2	185.6	177.3	166.5	154.1	138

# Technical data

## Single-stage end-suction pumps

# TES 40-160H1 2-pole

2 POLE

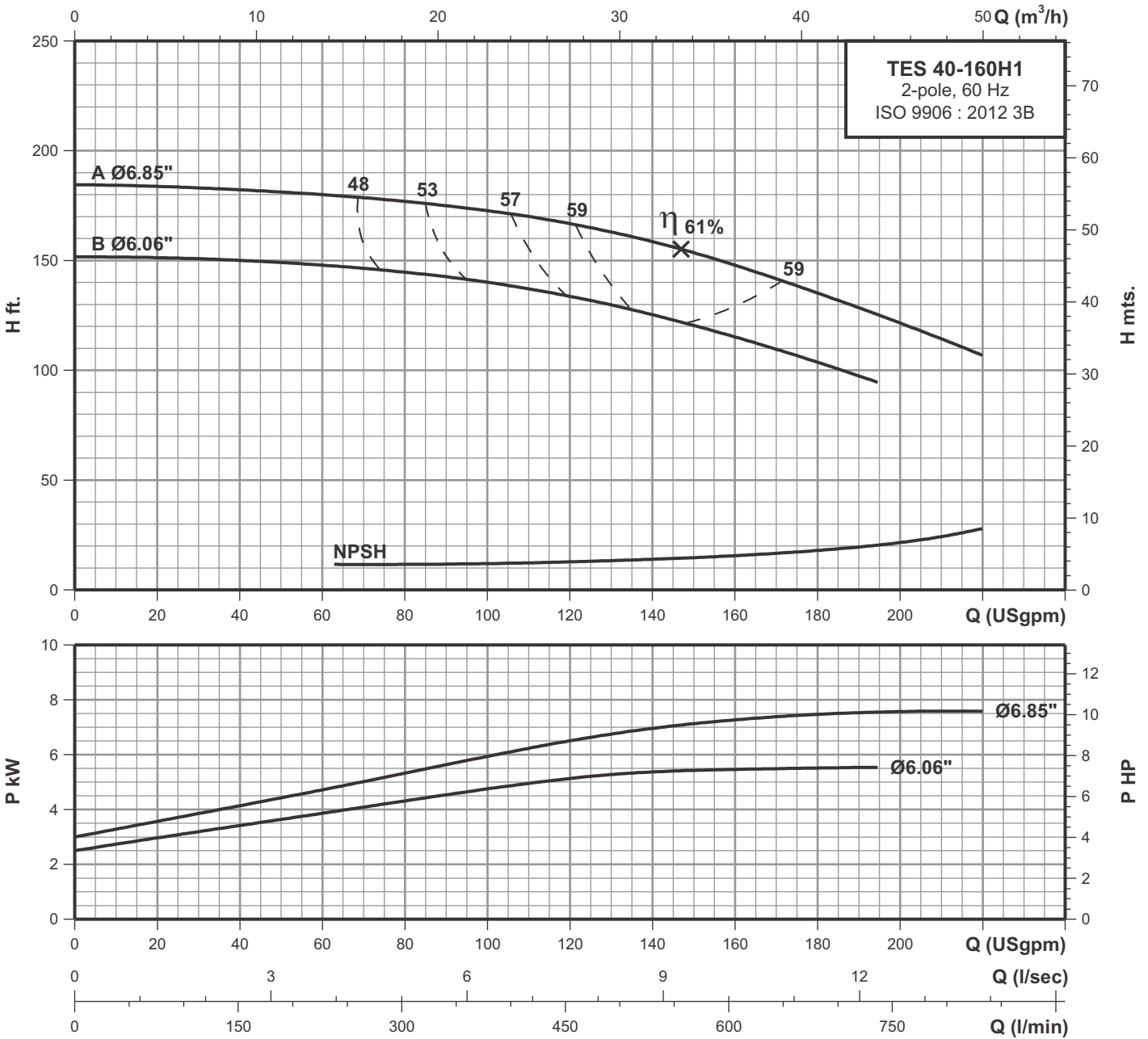


Power	(hp)	7.5	10
	(kw)	5.5	7.5
Frame		184JM	215JM
ANSI flange		125	125
Code for Impeller diameter		B	A
DN <sub>s</sub>	inch(mm)	2.50(65)	2.50(65)
DN <sub>d</sub>	inch(mm)	1.50(40)	1.50(40)
a	inch(mm)	3.15(80)	3.15(80)
h <sub>2</sub>	inch(mm)	6.30(160)	6.30(160)
L	inch(mm)	6.85(174)	6.85(174)
h <sub>1</sub>	inch(mm)	5.20(132)	5.20(132)
G <sub>1</sub>	inch(mm)	4.72(120)	4.72(120)
G <sub>2</sub>	inch(mm)	4.92(125)	4.92(125)
m <sub>1</sub>	inch(mm)	3.94(100)	3.94(100)
m <sub>2</sub>	inch(mm)	2.76(70)	2.76(70)
n <sub>1</sub>	inch(mm)	9.45(240)	9.45(240)
n <sub>2</sub>	inch(mm)	7.48(190)	7.48(190)
b	inch(mm)	1.97(50)	1.97(50)
s	inch(mm)	0.55(14)	0.55(14)
D	inch(mm)	-	-
LB	inch(mm)	13.31(338)	16.42(417)
AD	inch(mm)	6.46(164)	7.40(188)
AG	inch(mm)	3.98(101)	5.16(131)
LL	inch(mm)	3.98(101)	5.16(131)
BD	inch(mm)	6.50(165)	8.86(225)
BA	inch(mm)	-	-
2F	inch(mm)	-	-
2E	inch(mm)	-	-
H	inch(mm)	-	-
Net Weight	lbs(kg)	162(74)	218(99)
Gross Weight	lbs(kg)	184(84)	229(104)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	3.67(0.104)	5.01(0.142)

# Performance curves

Single-stage end-suction pumps

## TES 40-160H1 2-pole



**2 POLE**

### Performance data at n=3450 rpm

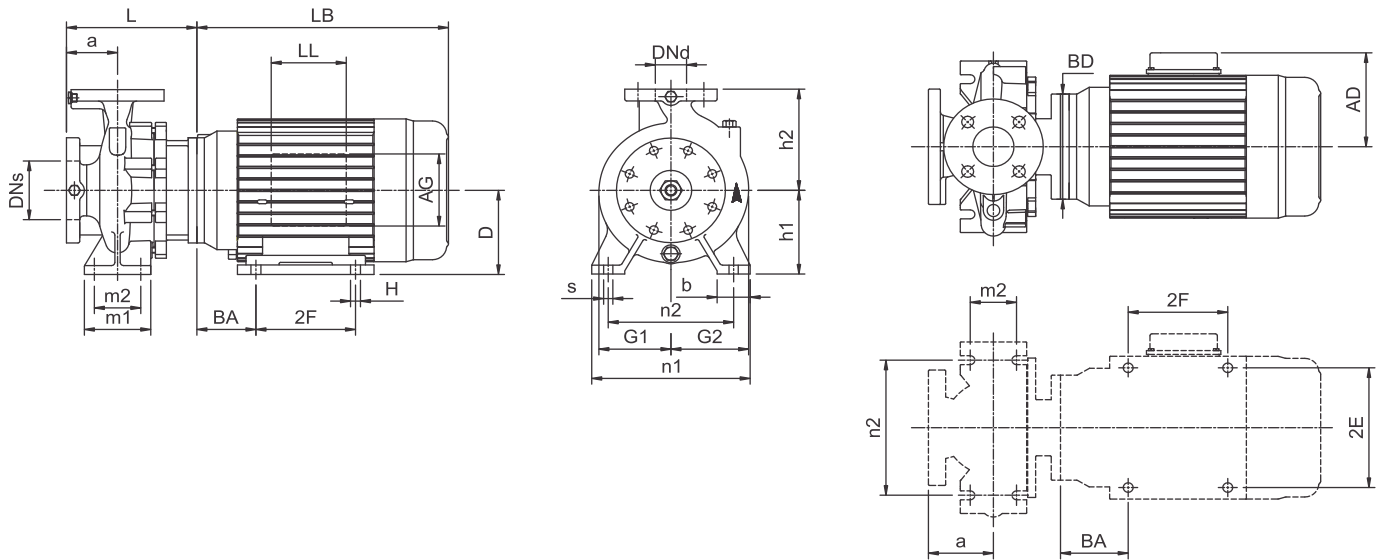
Model	Power		l/min USgpm	227	303	379	454	530	606	681	757	833
	HP	kW		60	80	100	120	140	160	180	200	220
TES 40-160H1B	7.50	5.50	H ft.	148.2	144.7	140.3	133.9	125.5	115.2	103.9	-	-
TES 40-160H1A	10.0	7.50		180.1	177.2	172.7	166.8	158.5	148.2	135.3	121.6	106.8

# Technical data

## Single-stage end-suction pumps

# TES 40-2001 2-pole

2 POLE



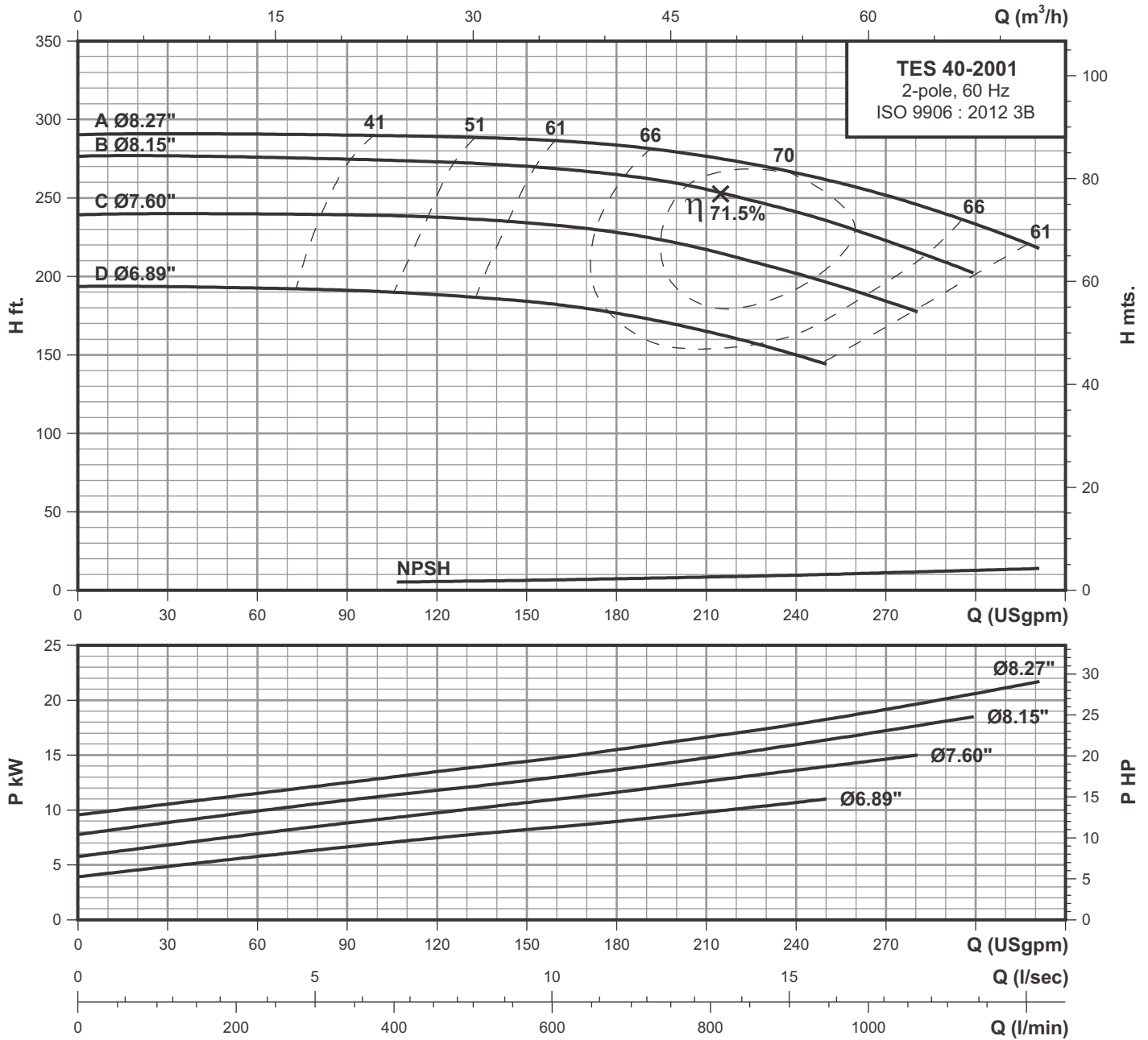
Power	(hp)	15	20	25	30
	(kw)	11	15	18.5	22
Frame		215JM	256JM	284JM	286JM
ANSI flange		125	125	125	250
Code for Impeller diameter		D	C	B	A
DNs	inch(mm)	2.50(65)	2.50(65)	2.50(65)	2.50(65)
Dnd	inch(mm)	1.50(40)	1.50(40)	1.50(40)	1.50(40)
a	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
h2	inch(mm)	7.09(180)	7.09(180)	7.09(180)	7.09(180)
L	inch(mm)	7.68(195)	8.31(211)	8.31(211)	8.31(211)
h1	inch(mm)	6.30(160)	6.30(160)	6.30(160)	6.30(160)
G1	inch(mm)	5.16(131)	5.16(131)	5.16(131)	5.16(131)
G2	inch(mm)	5.51(140)	5.51(140)	5.51(140)	5.51(140)
m1	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
m2	inch(mm)	2.76(70)	2.76(70)	2.76(70)	2.76(70)
n1	inch(mm)	10.43(265)	10.43(265)	10.43(265)	10.43(265)
n2	inch(mm)	8.35(212)	8.35(212)	8.35(212)	8.35(212)
b	inch(mm)	1.97(50)	1.97(50)	1.97(50)	1.97(50)
s	inch(mm)	0.55(14)	0.55(14)	0.55(14)	0.55(14)
D	inch(mm)	-	6.25(159)	7.00(178)	7.00(178)
LB	inch(mm)	16.42(417)	20.83(529)	23.70(602)	25.24(641)
AD	inch(mm)	7.40(188)	9.49(241)	11.57(294)	11.57(294)
AG	inch(mm)	5.16(131)	6.73(171)	10.35(263)	10.35(263)
LL	inch(mm)	5.16(131)	5.98(152)	7.68(195)	7.68(195)
BD	inch(mm)	8.86(225)	10.00(254)	14.00(356)	14.00(356)
BA	inch(mm)	-	4.25(108)	4.76(121)	4.76(121)
2F	inch(mm)	-	10.00(254)	9.50(241)	11.00(279)
2E	inch(mm)	-	10.00(254)	11.00(279)	11.00(279)
H	inch(mm)	-	0.53(13.5)	0.53(13.5)	0.53(13.5)
Net Weight	lbs(kg)	251(114)	350(159)	522(237)	555(252)
Gross Weight	lbs(kg)	273(124)	466(212)	639(290)	678(308)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	5.01(0.142)	12.64(0.358)	12.64(0.358)	13.54(0.383)



# Performance curves

Single-stage end-suction pumps

## TES 40-2001 2-pole



**2 POLE**

### Performance data at n=3450 rpm

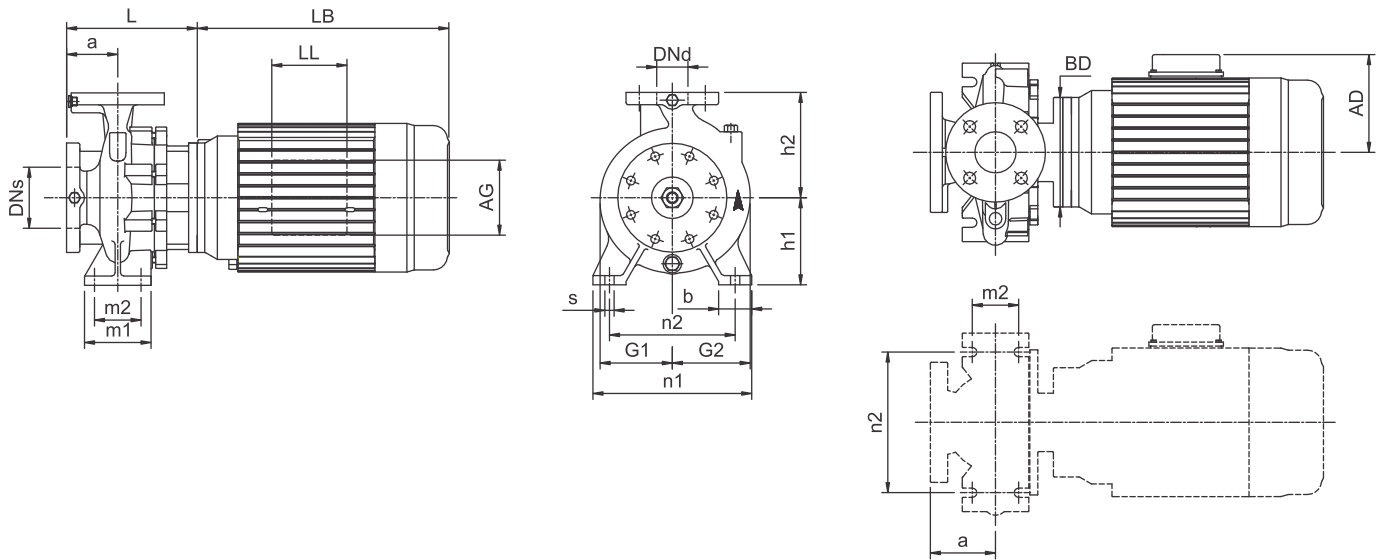
Model	Power		l/min USgpm	114	227	341	454	568	681	795	909	1022	1136
	HP	kW		30	60	90	120	150	180	210	240	270	300
TES 40-2001D	15.0	11.0	H ft.	193.6	192.8	191.1	188.6	183.6	176.2	165.4	150	-	-
TES 40-2001C	20.0	15.0		240.1	240.1	239.3	237.6	234.3	227.6	216.9	201.9	184.5	-
TES 40-2001B	25.0	18.5		276.6	275.7	275	273.2	270	265	255.8	241	223.5	-
TES 40-2001A	30.0	22.0		290.7	290.7	290	289.1	287.4	283.2	276.6	265.8	251.7	233.4

# Technical data

## Single-stage end-suction pumps

# TES 40-200H1 2-pole

2 POLE

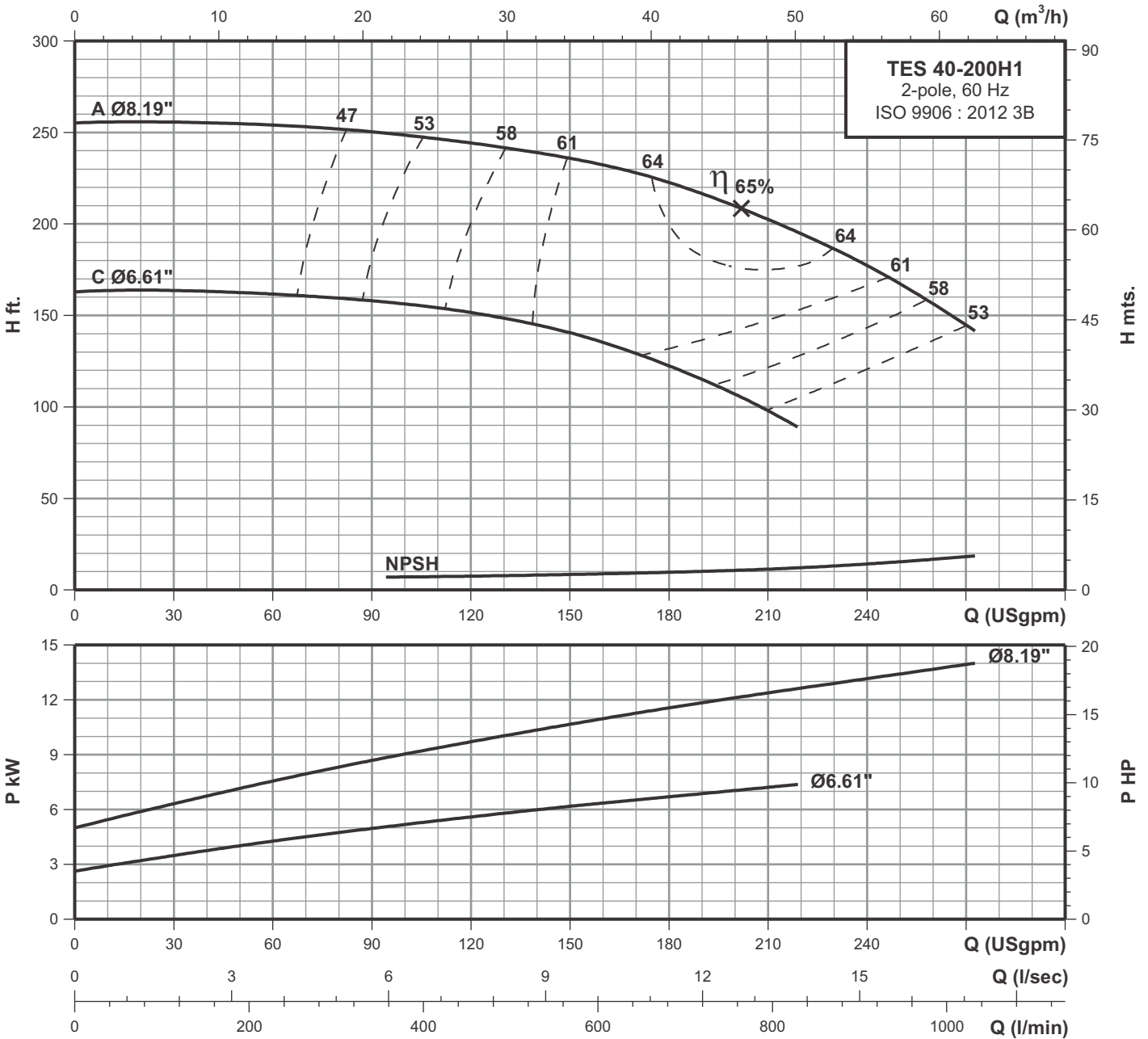


Power	(hp)	10	15
	(kw)	7.5	11
Frame		215JM	215JM
ANSI flange		125	125
Code for Impeller diameter		C	A
DN <sub>s</sub>	inch(mm)	2.50(65)	2.50(65)
DN <sub>d</sub>	inch(mm)	1.50(40)	1.50(40)
a	inch(mm)	3.94(100)	3.94(100)
h <sub>2</sub>	inch(mm)	7.09(180)	7.09(180)
L	inch(mm)	7.68(195)	7.68(195)
h <sub>1</sub>	inch(mm)	6.30(160)	6.30(160)
G <sub>1</sub>	inch(mm)	5.24(133)	5.24(133)
G <sub>2</sub>	inch(mm)	5.59(142)	5.59(142)
m <sub>1</sub>	inch(mm)	3.94(100)	3.94(100)
m <sub>2</sub>	inch(mm)	2.76(70)	2.76(70)
n <sub>1</sub>	inch(mm)	10.43(265)	10.43(265)
n <sub>2</sub>	inch(mm)	8.35(212)	8.35(212)
b	inch(mm)	1.97(50)	1.97(50)
s	inch(mm)	0.55(14)	0.55(14)
D	inch(mm)	-	-
LB	inch(mm)	16.42(417)	16.42(417)
AD	inch(mm)	7.40(188)	7.40(188)
AG	inch(mm)	5.16(131)	5.16(131)
LL	inch(mm)	5.16(131)	5.16(131)
BD	inch(mm)	8.86(225)	8.86(225)
BA	inch(mm)	-	-
2F	inch(mm)	-	-
2E	inch(mm)	-	-
H	inch(mm)	-	-
Net Weight	lbs(kg)	229(104)	251(114)
Gross Weight	lbs(kg)	251(114)	273(124)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	5.01(0.142)	5.01(0.142)

# Performance curves

Single-stage end-suction pumps

## TES 40-200H1 2-pole



**2 POLE**

### Performance data at n=3450 rpm

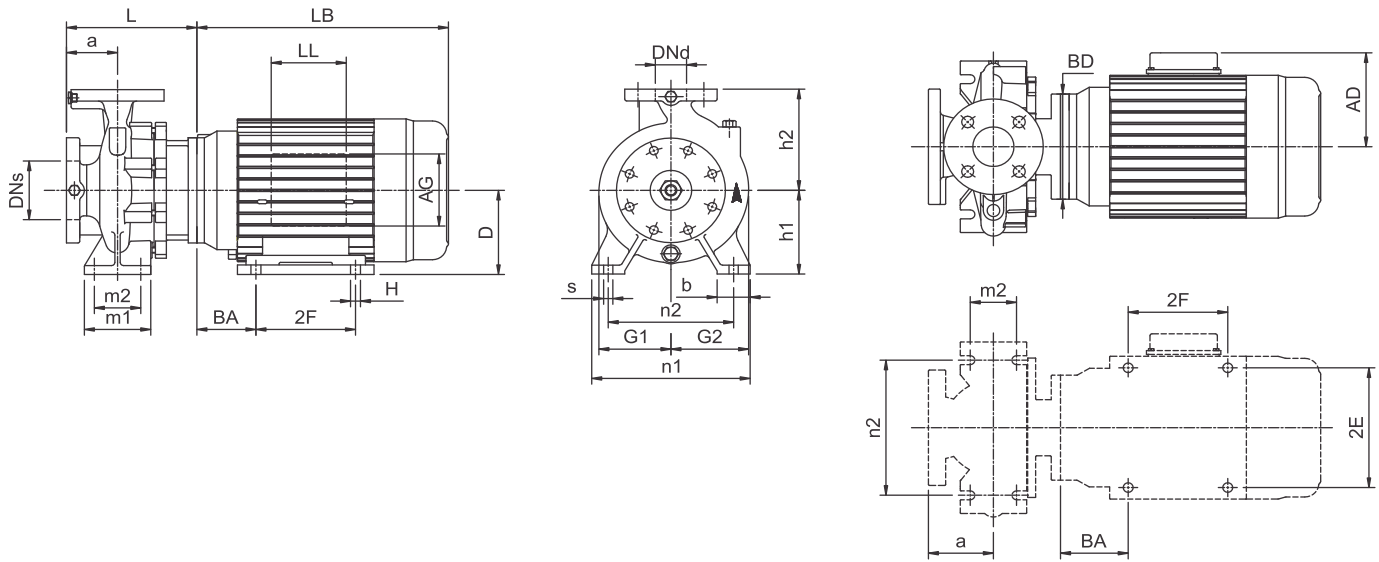
Model	Power		l/min USgpm	227	341	454	568	681	795	908	1022
	HP	kW		60	90	120	150	180	210	240	270
TES 40-200H1C	10.0	7.50	H ft.	161.4	157.8	151.3	140.6	122.7	97.7	-	-
TES 40-200H1A	15.0	11.0		253.8	250.8	244.2	235.9	222.8	202.5	177.5	144.7

# Technical data

## Single-stage end-suction pumps

# TES 40-2501 2-pole

2 POLE

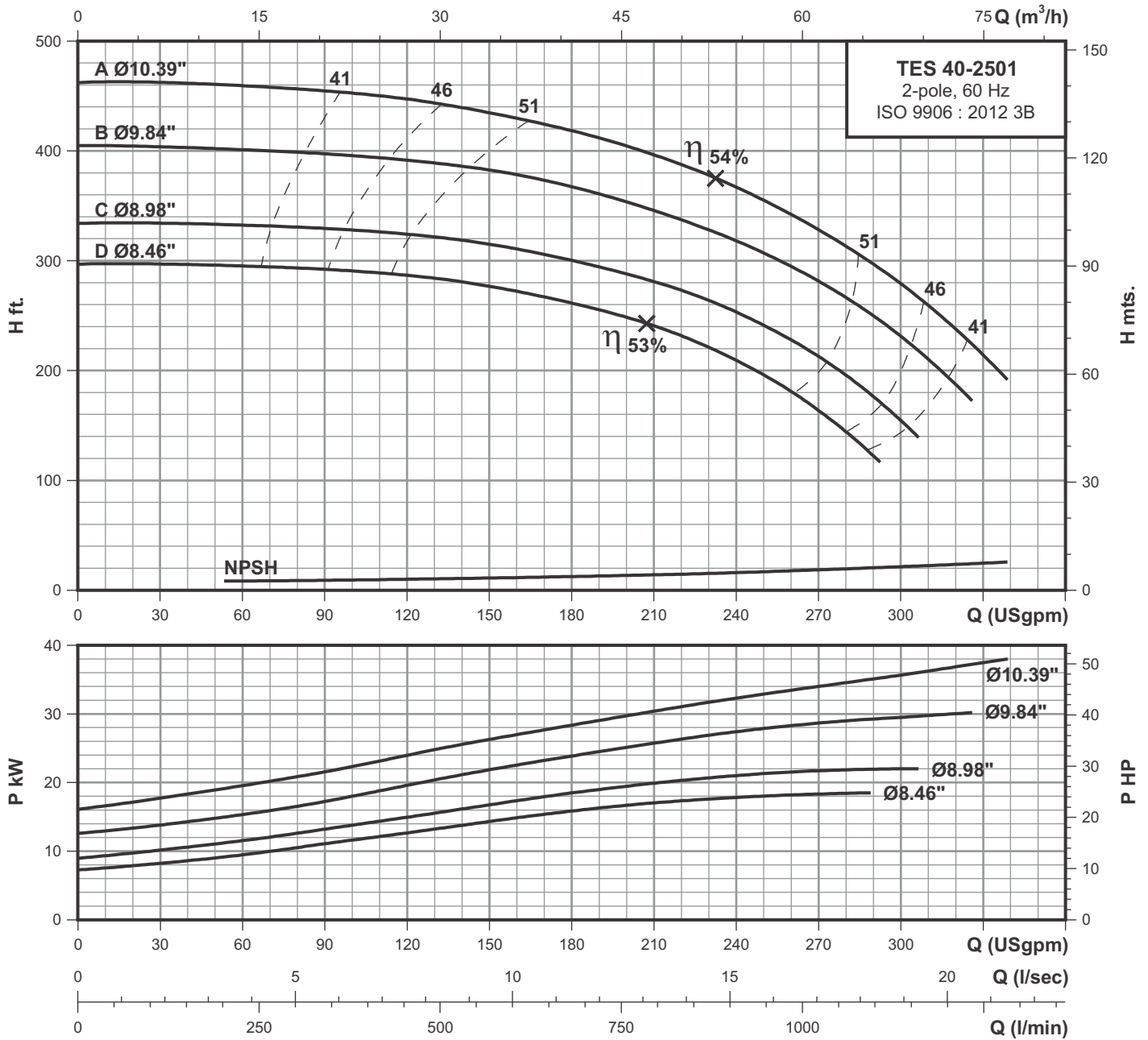


Power	(hp)	25	30	40	50
	(kw)	18.5	22	30	37
Frame		284JM	286JM	324JM	326JM
ANSI flange		250	250	250	250
Code for Impeller diameter		D	C	B	A
DNs	inch(mm)	2.50(65)	2.50(65)	2.50(65)	2.50(65)
Dnd	inch(mm)	1.50(40)	1.50(40)	1.50(40)	1.50(40)
a	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
h2	inch(mm)	8.86(225)	8.86(225)	8.86(225)	8.86(225)
L	inch(mm)	8.86(225)	8.86(225)	8.86(225)	8.86(225)
h1	inch(mm)	7.09(180)	7.09(180)	7.09(180)	7.09(180)
G1	inch(mm)	6.30(160)	6.30(160)	6.30(160)	6.30(160)
G2	inch(mm)	6.69(170)	6.69(170)	6.69(170)	6.69(170)
m1	inch(mm)	4.92(125)	4.92(125)	4.92(125)	4.92(125)
m2	inch(mm)	3.74(95)	3.74(95)	3.74(95)	3.74(95)
n1	inch(mm)	12.60(320)	12.60(320)	12.60(320)	12.60(320)
n2	inch(mm)	9.84(250)	9.84(250)	9.84(250)	9.84(250)
b	inch(mm)	2.56(65)	2.56(65)	2.56(65)	2.56(65)
s	inch(mm)	0.55(14)	0.55(14)	0.55(14)	0.55(14)
D	inch(mm)	7.00(178)	7.00(178)	8.00(203)	8.00(203)
LB	inch(mm)	23.70(602)	25.24(641)	27.09(688)	27.09(688)
AD	inch(mm)	11.57(294)	11.57(294)	12.05(306)	12.05(306)
AG	inch(mm)	10.35(263)	10.35(263)	10.35(263)	10.35(263)
LL	inch(mm)	7.68(195)	7.68(195)	7.68(195)	7.68(195)
BD	inch(mm)	14.00(356)	14.00(356)	14.00(356)	14.00(356)
BA	inch(mm)	4.76(121)	4.76(121)	5.25(133)	5.25(133)
2F	inch(mm)	9.50(241)	11.00(279)	10.50(267)	12.00(305)
2E	inch(mm)	11.00(279)	11.00(279)	12.50(318)	12.50(318)
H	inch(mm)	0.53(13.5)	0.53(13.5)	0.66(17)	0.66(17)
Net Weight	lbs(kg)	551(251)	584(266)	707(322)	751(342)
Gross Weight	lbs(kg)	668(304)	707(322)	850(387)	894(407)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	12.64(0.358)	13.54(0.383)	17.19(0.487)	17.19(0.487)

# Performance curves

Single-stage end-suction pumps

## TES 40-2501 2-pole



**2 POLE**

### Performance data at n=3450 rpm

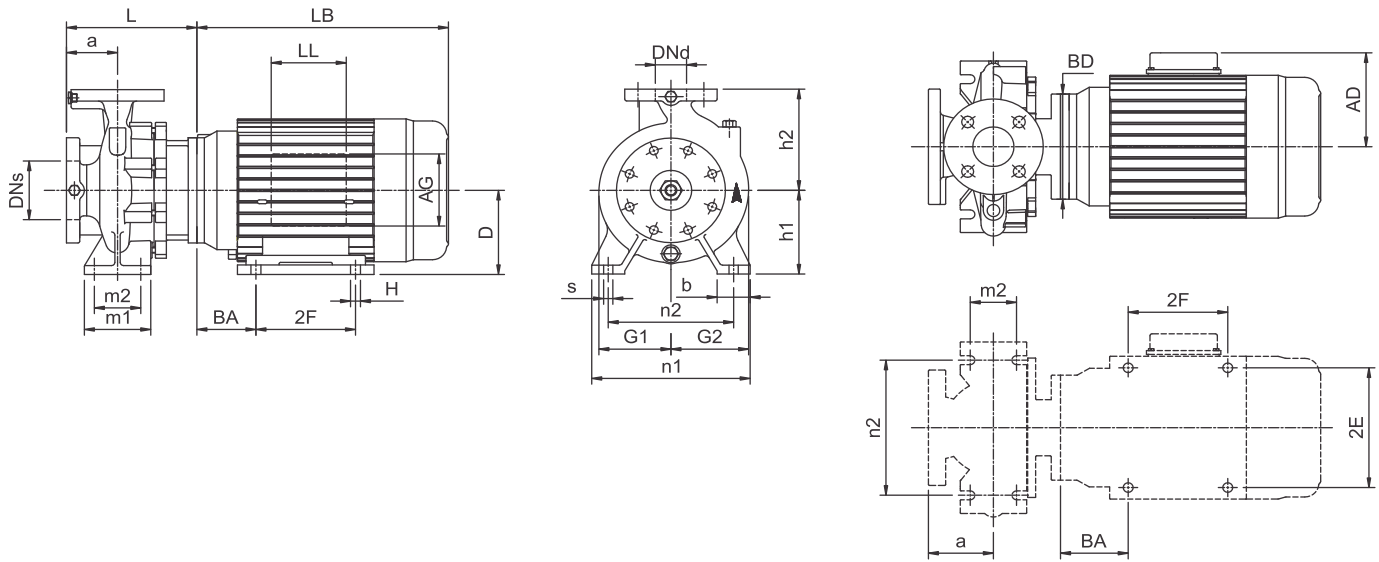
Model	Power		l/min USgpm	114	227	341	454	568	681	795	909	1022	1136	1249
	HP	kW		30	60	90	120	150	180	210	240	270	300	330
TES 40-2501D	25.0	18.5	H ft.	297	295.7	292.1	287.1	276	262.3	241.4	209.1	163.4	-	-
TES 40-2501C	30.0	22.0		334.2	333	329.3	324.3	315.6	300.7	281	253.7	212.8	154.6	-
TES 40-2501B	40.0	30.0		403.4	401	397.3	391.1	382.5	367.6	345.3	318.1	282.1	231.5	-
TES 40-2501A	50.0	37.0		461.6	459.2	454.3	447	435.7	418.3	397.3	366.3	328	278.5	214.2

# Technical data

## Single-stage end-suction pumps

# TES 40-250L1 2-pole

2 POLE



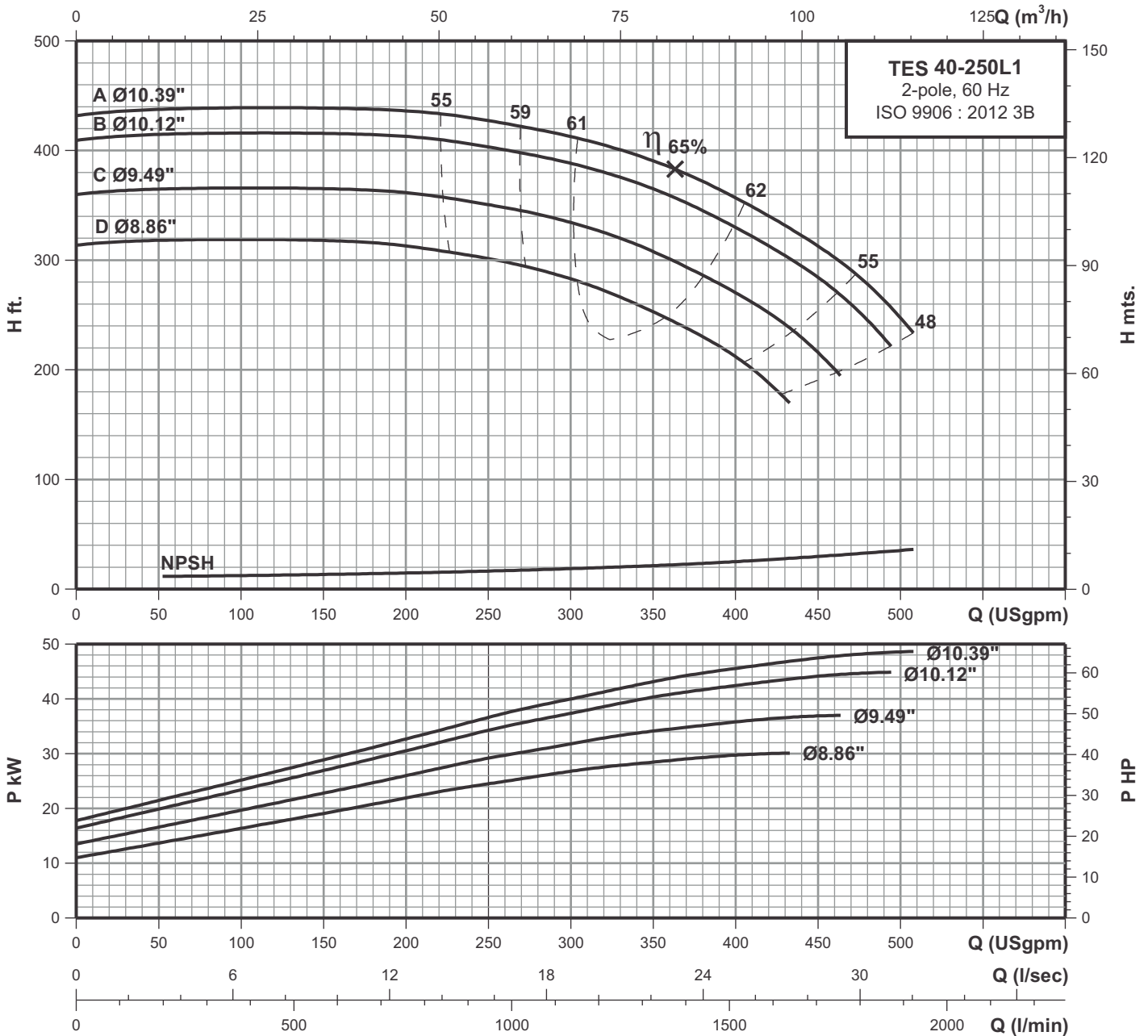
Power	(hp)	40	50	60	75
	(kw)	30	37	45	55
Frame		324JM	326JM	364JM	365JM
ANSI flange		250	250	250	250
Code for Impeller diameter		D	C	B	A
DNs	inch(mm)	2.50(65)	2.50(65)	2.50(65)	2.50(65)
Dnd	inch(mm)	1.50(40)	1.50(40)	1.50(40)	1.50(40)
a	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
h2	inch(mm)	8.86(225)	8.86(225)	8.86(225)	8.86(225)
L	inch(mm)	8.86(225)	8.86(225)	8.86(225)	8.86(225)
h1	inch(mm)	7.09(180)	7.09(180)	7.09(180)	7.09(180)
G1	inch(mm)	6.46(164)	6.46(164)	6.46(164)	6.46(164)
G2	inch(mm)	6.97(177)	6.97(177)	6.97(177)	6.97(177)
m1	inch(mm)	4.92(125)	4.92(125)	4.92(125)	4.92(125)
m2	inch(mm)	3.74(95)	3.74(95)	3.74(95)	3.74(95)
n1	inch(mm)	12.6(320)	12.6(320)	12.6(320)	12.6(320)
n2	inch(mm)	9.84(250)	9.84(250)	9.84(250)	9.84(250)
b	inch(mm)	2.56(65)	2.56(65)	2.56(65)	2.56(65)
s	inch(mm)	0.55(14)	0.55(14)	0.55(14)	0.55(14)
D	inch(mm)	8.00(203)	8.00(203)	9.00(229)	9.00(229)
LB	inch(mm)	27.09(688)	27.09(688)	27.56(700)	28.54(725)
AD	inch(mm)	12.05(306)	12.05(306)	12.91(328)	12.91(328)
AG	inch(mm)	10.35(263)	10.35(263)	10.35(263)	10.35(263)
LL	inch(mm)	7.68(195)	7.68(195)	7.68(195)	7.68(195)
BD	inch(mm)	14.00(356)	14.00(356)	14.00(356)	14.00(356)
BA	inch(mm)	5.25(133)	5.25(133)	5.87(149)	5.87(149)
2F	inch(mm)	10.50(267)	12.00(305)	11.25(286)	12.25(311)
2E	inch(mm)	12.50(318)	12.50(318)	14.00(356)	14.00(356)
H	inch(mm)	0.66(17)	0.66(17)	0.66(17)	0.66(17)
Net Weight	lbs(kg)	707(322)	751(342)	811(368)	925(420)
Gross Weight	lbs(kg)	850(387)	894(407)	981(445)	1039(472)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	17.19(0.487)	17.19(0.487)	21.96(0.622)	21.96(0.622)

# Performance curves

Single-stage end-suction pumps

## TES 40-250L1 2-pole

2 POLE



### Performance data at n=3450 rpm

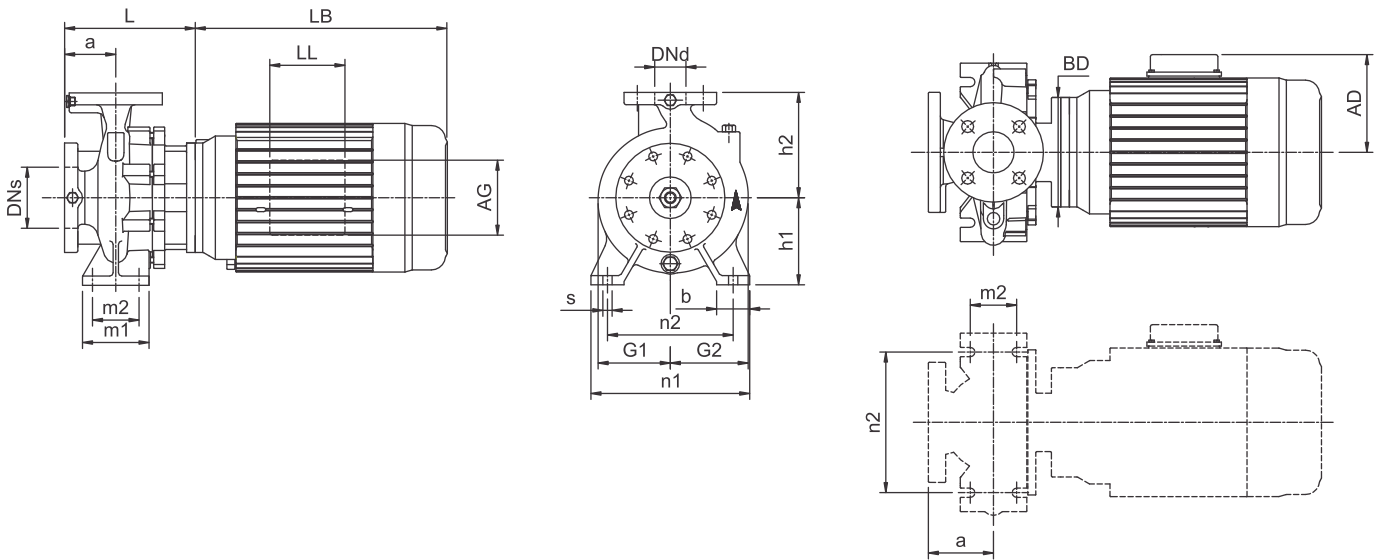
Model	Power		l/min USgpm	379	568	757	946	1136	1325	1514	1703	1893
	HP	kW		100	150	200	250	300	350	400	450	500
TES 40-250L1D	40.0	30.0	H ft.	319.2	318.2	313.4	301.8	283.7	252.9	212.5	-	-
TES 40-250L1C	50.0	37.0		366.2	365.3	361.4	350.9	334.6	308.6	270.2	215.5	-
TES 40-250L1B	60.0	45.0		416.3	415.2	412.3	403.7	388.3	365.3	330.7	284.6	-
TES 40-250L1A	75.0	55.0		439.2	438.4	436.4	427.8	412.3	390.2	356.7	313.4	247.1

# Technical data

## Single-stage end-suction pumps

# TES 50-1251 2-pole

2 POLE



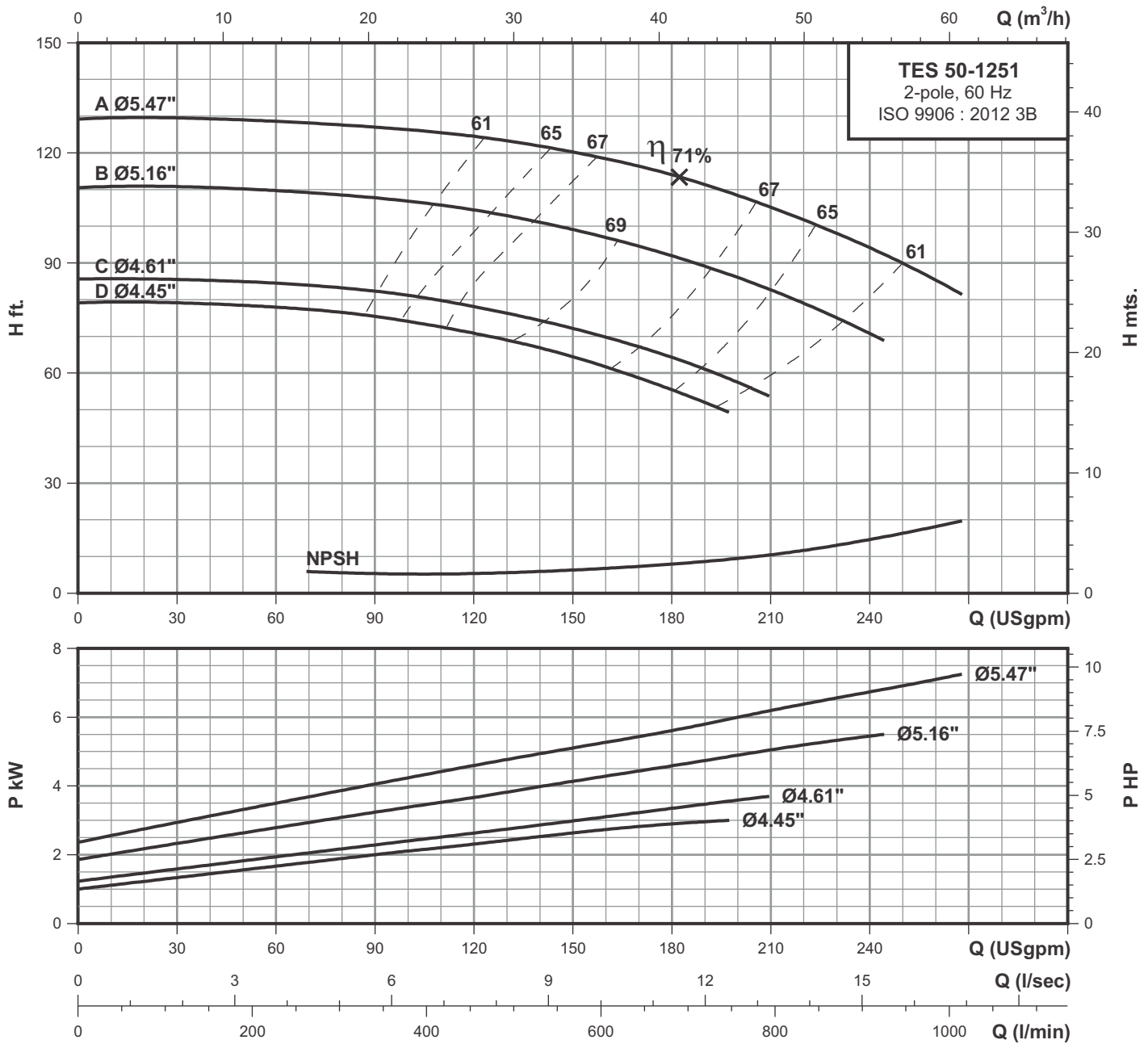
Power	(hp)	4	5	7.5	10
	(kw)	3	3.7	5.5	7.5
Frame		184JM	184JM	184JM	215JM
ANSI flange		125	125	125	125
Code for Impeller diameter		D	C	B	A
DN <sub>s</sub>	inch(mm)	2.50(65)	2.50(65)	2.50(65)	2.50(65)
DN <sub>d</sub>	inch(mm)	2.00(50)	2.00(50)	2.00(50)	2.00(50)
a	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
h <sub>2</sub>	inch(mm)	6.30(160)	6.30(160)	6.30(160)	6.30(160)
L	inch(mm)	7.64(194)	7.64(194)	7.64(194)	7.64(194)
h <sub>1</sub>	inch(mm)	5.20(132)	5.20(132)	5.20(132)	5.20(132)
G <sub>1</sub>	inch(mm)	3.86(98)	3.86(98)	3.86(98)	3.86(98)
G <sub>2</sub>	inch(mm)	4.45(113)	4.45(113)	4.45(113)	4.45(113)
m <sub>1</sub>	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
m <sub>2</sub>	inch(mm)	2.76(70)	2.76(70)	2.76(70)	2.76(70)
n <sub>1</sub>	inch(mm)	9.45(240)	9.45(240)	9.45(240)	9.45(240)
n <sub>2</sub>	inch(mm)	7.48(190)	7.48(190)	7.48(190)	7.48(190)
b	inch(mm)	1.97(50)	1.97(50)	1.97(50)	1.97(50)
s	inch(mm)	0.55(14)	0.55(14)	0.55(14)	0.55(14)
D	inch(mm)	-	-	-	-
LB	inch(mm)	13.31(338)	13.31(338)	13.31(338)	16.42(417)
AD	inch(mm)	6.46(164)	6.46(164)	6.46(164)	7.40(188)
AG	inch(mm)	3.98(101)	3.98(101)	3.98(101)	5.16(131)
LL	inch(mm)	3.98(101)	3.98(101)	3.98(101)	5.16(131)
BD	inch(mm)	6.50(165)	6.50(165)	6.50(165)	8.86(225)
BA	inch(mm)	-	-	-	-
2F	inch(mm)	-	-	-	-
2E	inch(mm)	-	-	-	-
H	inch(mm)	-	-	-	-
Net Weight	lbs(kg)	141(64)	145(66)	162(73)	219(99)
Gross Weight	lbs(kg)	163(74)	167(76)	184(83)	241(109)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	3.68(0.104)	3.68(0.104)	3.68(0.104)	5.01(0.142)



# Performance curves

## Single-stage end-suction pumps

# TES 50-1251 2-pole



### Performance data at n=3450 rpm

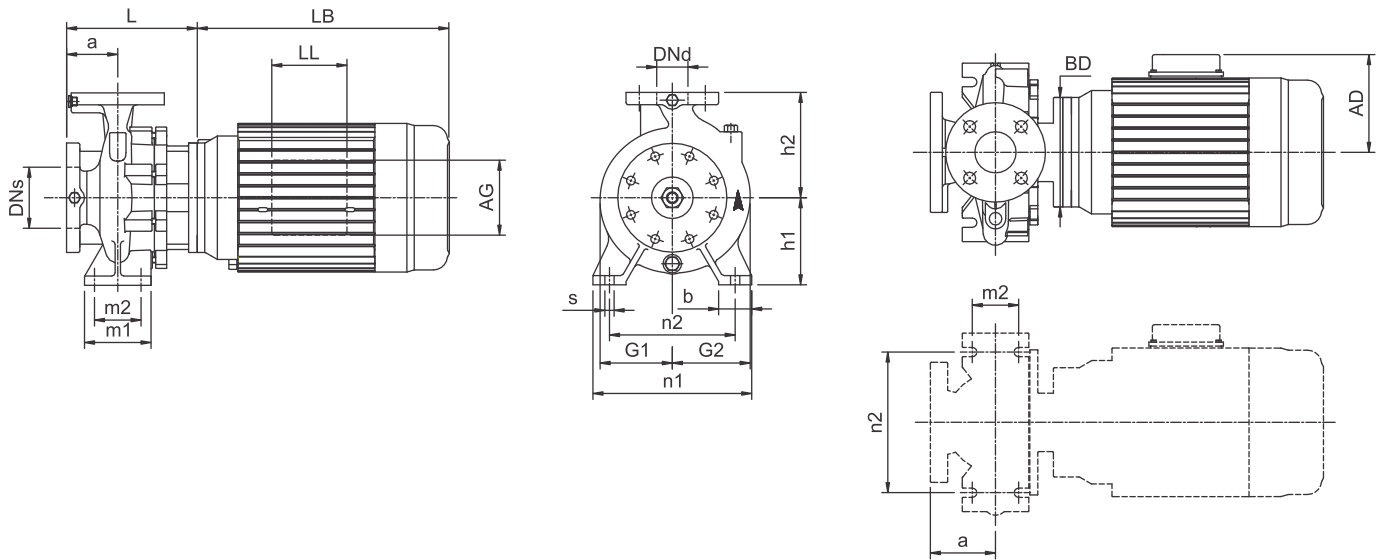
Model	Power		l/min USgpm	114	227	341	454	568	681	795	909
	HP	kW									
TES 50-1251D	4.00	3.00	H ft.	30	60	90	120	150	180	210	240
				79.1	78	75.2	70.7	64.4	55.7	-	-
				85.3	84.3	82.2	78	72.1	64.4	53.7	-
				111	109.6	107.8	104.3	99.3	91.8	82.7	70.7
TES 50-1251C	5.00	3.70		129.4	128.7	127	124.5	120.4	114.2	105.3	94.3
TES 50-1251B	7.50	5.50									
TES 50-1251A	10.0	7.50									

# Technical data

## Single-stage end-suction pumps

# TES 50-125L1 2-pole

2 POLE



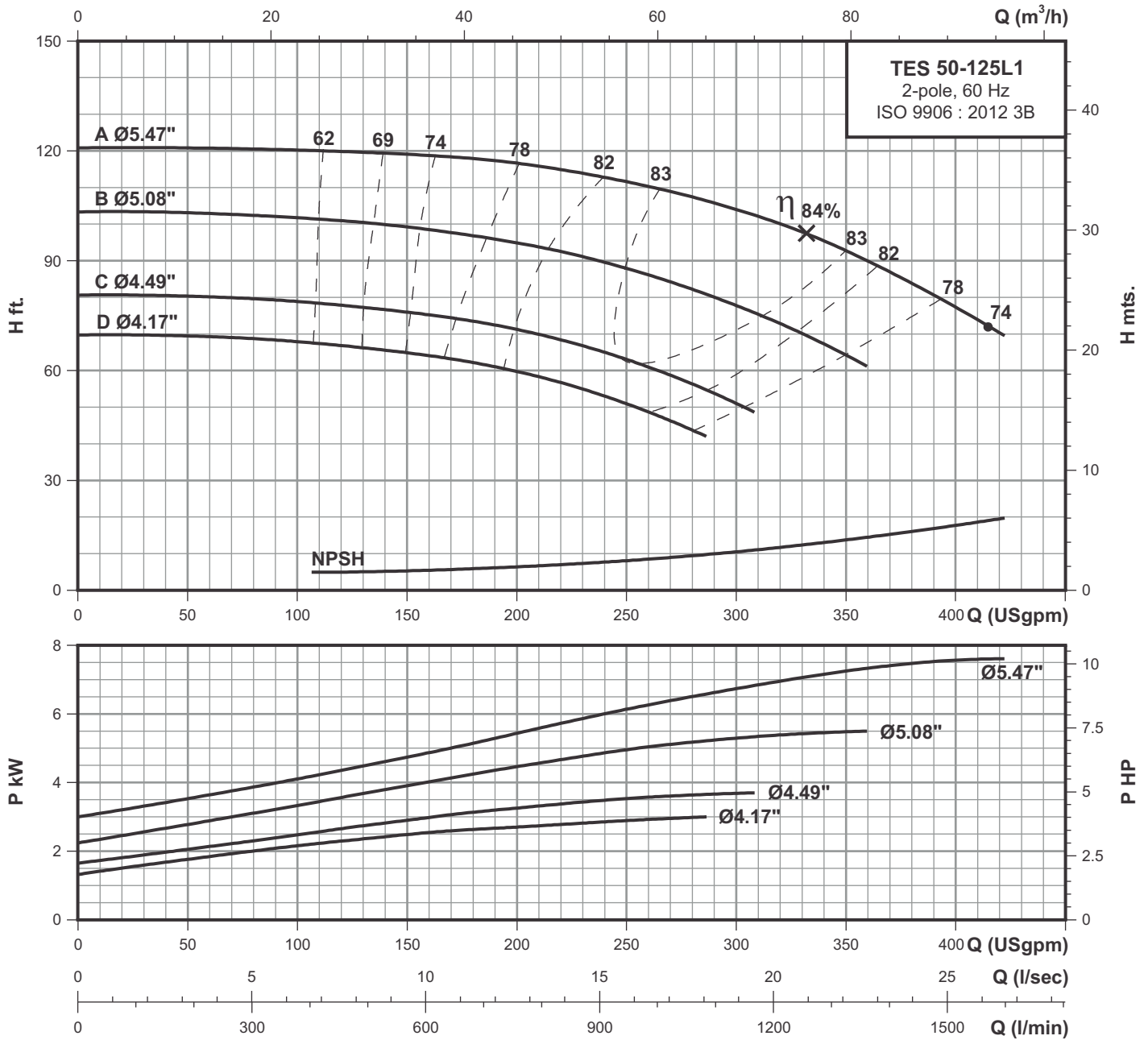
Power	(hp)	4	5	7.5	10
	(kw)	3	3.7	5.5	7.5
Frame		184JM	184JM	184JM	215JM
ANSI flange		125	125	125	125
Code for Impeller diameter		D	C	B	A
DN <sub>s</sub>	inch(mm)	2.50(65)	2.50(65)	2.50(65)	2.50(65)
DN <sub>d</sub>	inch(mm)	2.00(50)	2.00(50)	2.00(50)	2.00(50)
a	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
h <sub>2</sub>	inch(mm)	6.30(160)	6.30(160)	6.30(160)	6.30(160)
L	inch(mm)	7.64(194)	7.64(194)	7.64(194)	7.64(194)
h <sub>1</sub>	inch(mm)	5.20(132)	5.20(132)	5.20(132)	5.20(132)
G <sub>1</sub>	inch(mm)	4.13(105)	4.13(105)	4.13(105)	4.13(105)
G <sub>2</sub>	inch(mm)	4.92(125)	4.92(125)	4.92(125)	4.92(125)
m <sub>1</sub>	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
m <sub>2</sub>	inch(mm)	2.76(70)	2.76(70)	2.76(70)	2.76(70)
n <sub>1</sub>	inch(mm)	9.45(240)	9.45(240)	9.45(240)	9.45(240)
n <sub>2</sub>	inch(mm)	7.48(190)	7.48(190)	7.48(190)	7.48(190)
b	inch(mm)	1.97(50)	1.97(50)	1.97(50)	1.97(50)
s	inch(mm)	0.55(14)	0.55(14)	0.55(14)	0.55(14)
D	inch(mm)	-	-	-	-
LB	inch(mm)	13.31(338)	13.31(338)	13.31(338)	16.42(417)
AD	inch(mm)	6.46(164)	6.46(164)	6.46(164)	7.40(188)
AG	inch(mm)	3.98(101)	3.98(101)	3.98(101)	5.16(131)
LL	inch(mm)	3.98(101)	3.98(101)	3.98(101)	5.16(131)
BD	inch(mm)	6.50(165)	6.50(165)	6.50(165)	8.86(225)
BA	inch(mm)	-	-	-	-
2F	inch(mm)	-	-	-	-
2E	inch(mm)	-	-	-	-
H	inch(mm)	-	-	-	-
Net Weight	lbs(kg)	141(64)	146(66)	162(74)	220(100)
Gross Weight	lbs(kg)	163(74)	168(76)	184(84)	242(110)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	3.68(0.104)	3.68(0.104)	3.68(0.104)	5.01(0.142)

# Performance curves

Single-stage end-suction pumps

## TES 50-125L1

## 2-pole



### Performance data at n=3450 rpm

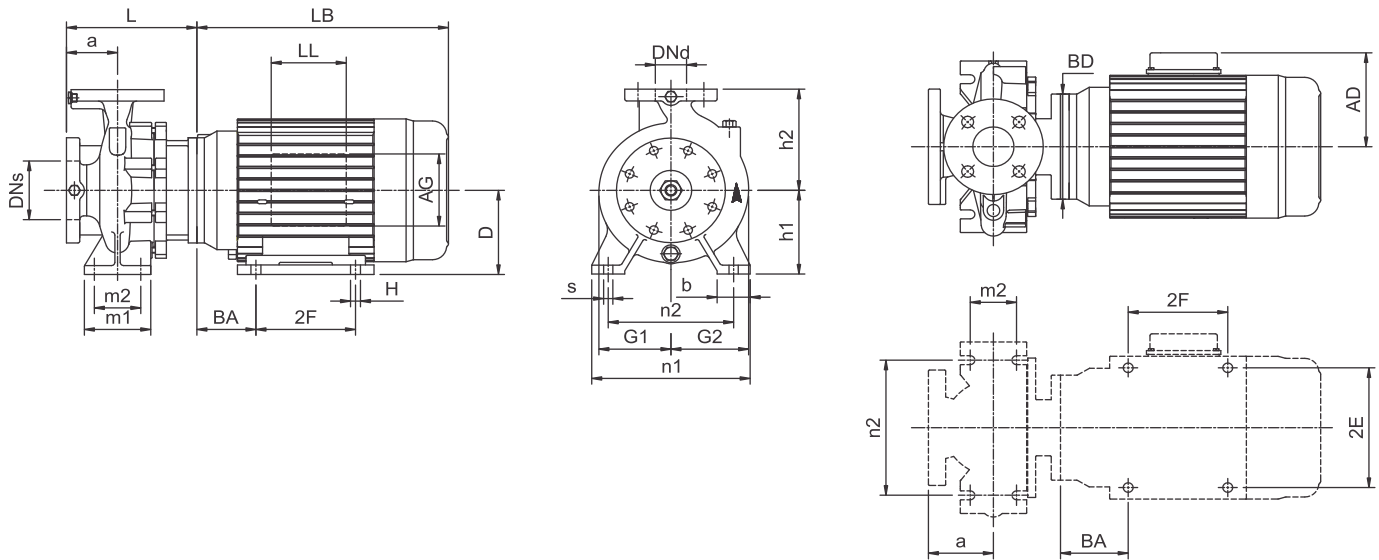
Model	Power		l/min USgpm	189	379	568	757	946	1136	1325	1514
	HP	kW		50	100	150	200	250	300	350	400
TES 50-125L1D	4.00	3.00	H ft.	69.4	68	65	59.7	51.1	-	-	-
TES 50-125L1C	5.00	3.70		80.3	78.8	76.2	71.3	63	51.1	-	-
TES 50-125L1B	7.50	5.50		103	101.6	99.3	94.8	88.1	77.7	64.2	-
TES 50-125L1A	10.0	7.50		120.9	120.3	119.1	116.5	111.7	104.2	93	77.3

# Technical data

## Single-stage end-suction pumps

# TES 50-1601 2-pole

2 POLE

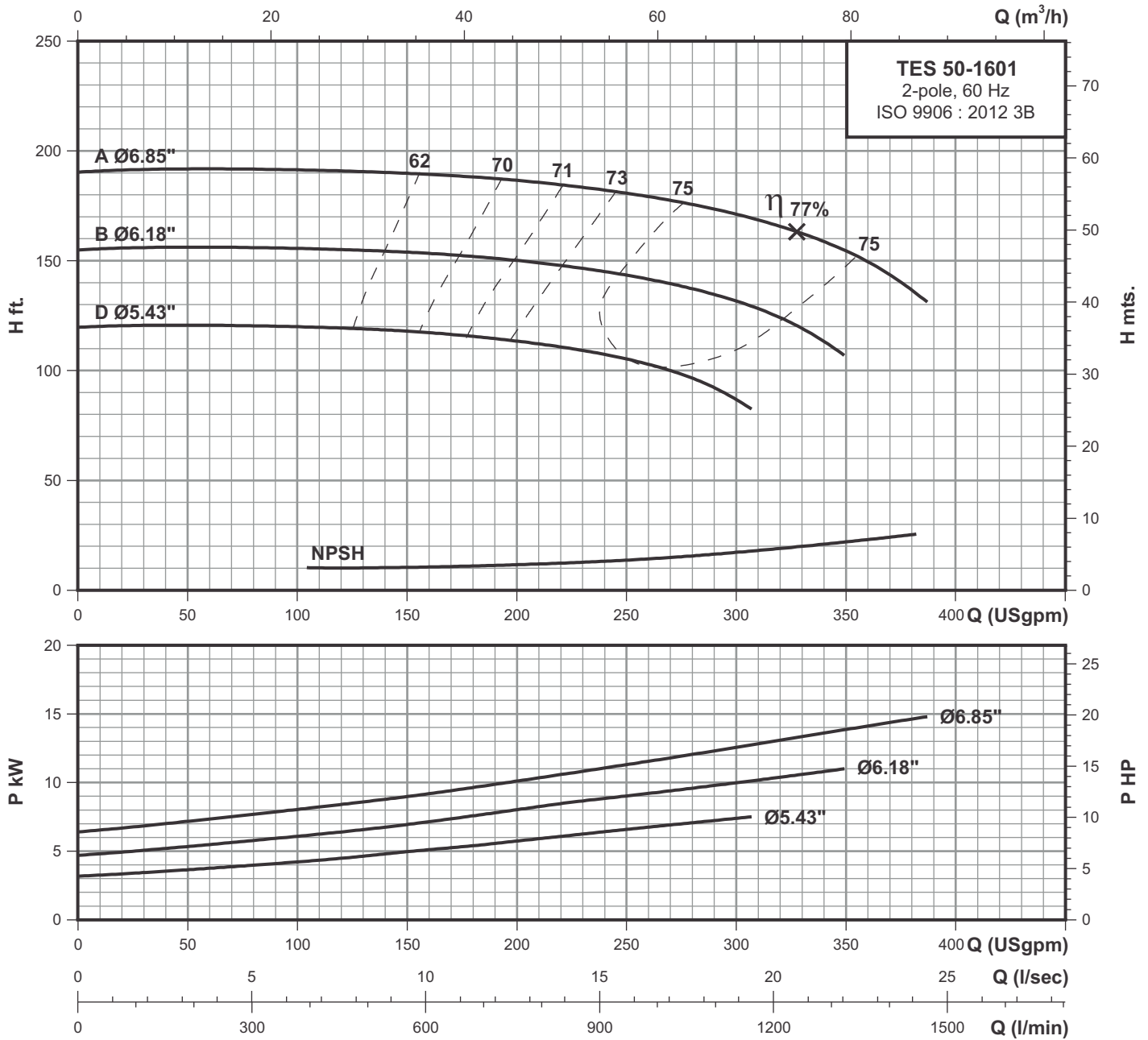


Power	(hp)	10	15	20
	(kw)	7.5	11	15
Frame		215JM	215JM	256JM
ANSI flange		125	125	125
Code for Impeller diameter		D	B	A
DNs	inch(mm)	2.50(65)	2.50(65)	2.50(65)
Dnd	inch(mm)	2.00(50)	2.00(50)	2.00(50)
a	inch(mm)	3.94(100)	3.94(100)	3.94(100)
h2	inch(mm)	7.09(180)	7.09(180)	7.09(180)
L	inch(mm)	7.64(194)	7.64(194)	8.46(215)
h1	inch(mm)	6.30(160)	6.30(160)	6.30(160)
G1	inch(mm)	4.76(121)	4.76(121)	4.76(121)
G2	inch(mm)	5.43(138)	5.43(138)	5.43(138)
m1	inch(mm)	3.94(100)	3.94(100)	3.94(100)
m2	inch(mm)	2.76(70)	2.76(70)	2.76(70)
n1	inch(mm)	10.43(265)	10.43(265)	10.43(265)
n2	inch(mm)	8.35(212)	8.35(212)	8.35(212)
b	inch(mm)	1.97(50)	1.97(50)	1.97(50)
s	inch(mm)	0.55(14)	0.55(14)	0.55(14)
D	inch(mm)	-	-	6.25(159)
LB	inch(mm)	16.42(417)	16.42(417)	20.83(529)
AD	inch(mm)	7.40(188)	7.40(188)	9.49(241)
AG	inch(mm)	5.16(131)	5.16(131)	6.73(171)
LL	inch(mm)	5.16(131)	5.16(131)	5.98(152)
BD	inch(mm)	8.86(225)	8.86(225)	10.00(254)
BA	inch(mm)	-	-	4.25(108)
2F	inch(mm)	-	-	10.00(254)
2E	inch(mm)	-	-	10.00(254)
H	inch(mm)	-	-	0.53(13.5)
Net Weight	lbs(kg)	224(102)	246(112)	346(157)
Gross Weight	lbs(kg)	246(112)	268(122)	462(210)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	5.01(0.142)	5.01(0.142)	12.64(0.358)

# Performance curves

Single-stage end-suction pumps

## TES 50-1601 2-pole



### Performance data at n=3450 rpm

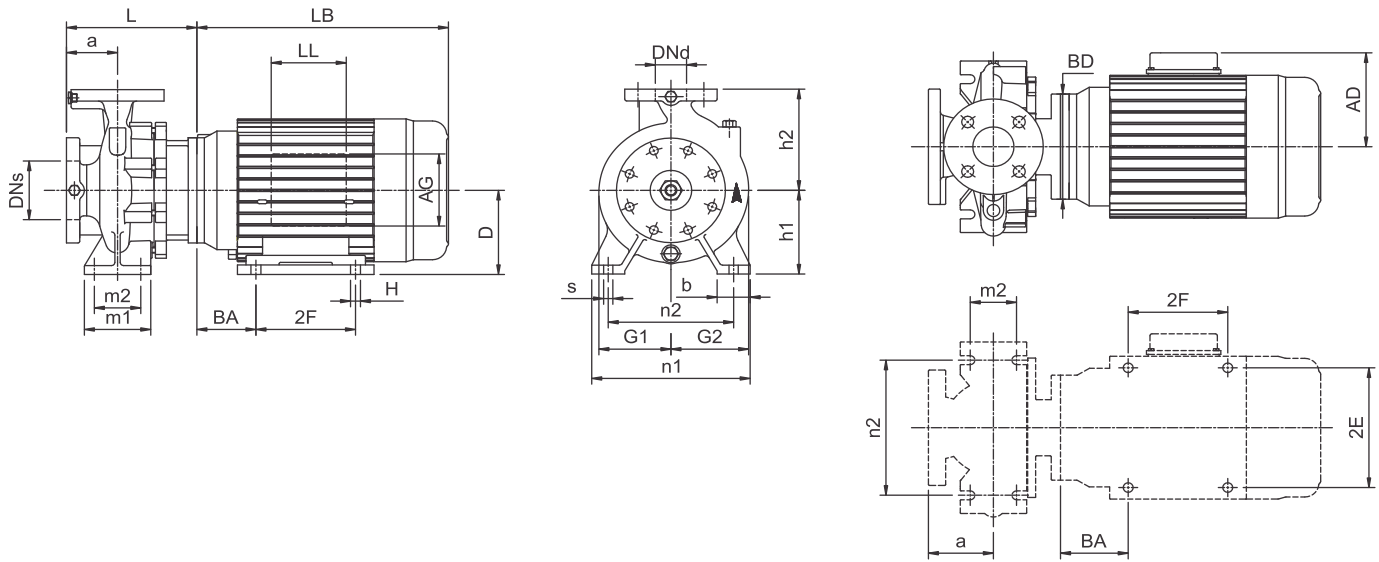
Model	Power		l/min USgpm	189	379	568	757	946	1136	1325
	HP	kW		50	100	150	200	250	300	350
TES 50-1601D	10.0	7.50	H ft.	120.9	119.7	118	113.2	105.6	87.4	-
TES 50-1601B	15.0	11.0		156.2	155.5	153.8	150	143.8	131.5	106.8
TES 50-1601A	20.0	15.0		192	191.4	189.7	186.7	180.8	171.4	154.4

# Technical data

## Single-stage end-suction pumps

# TES 50-2001 2-pole

2 POLE

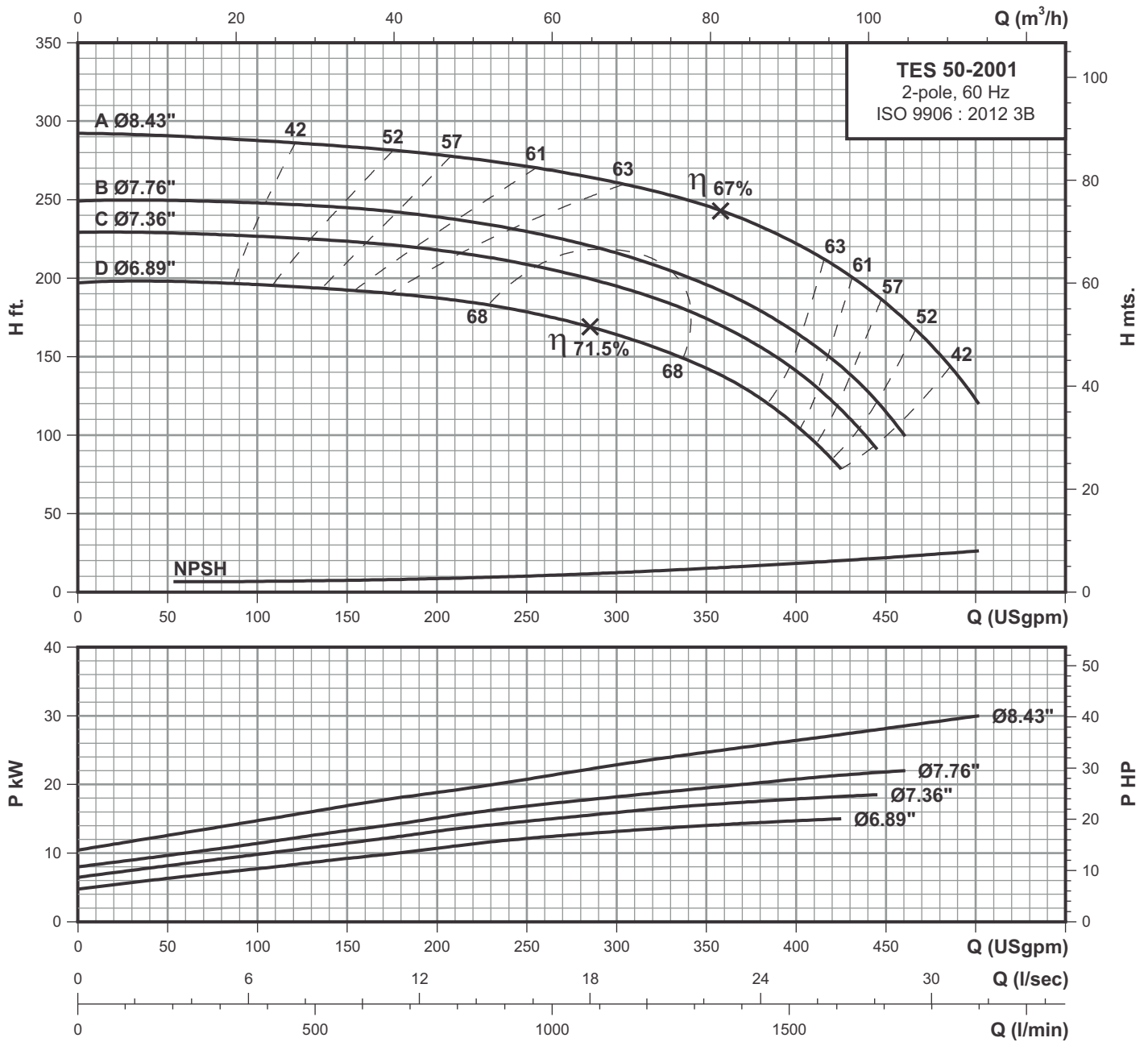


Power	(hp)	20	25	30	40
	(kw)	15	18.5	22	30
Frame		256JM	284JM	286JM	324JM
ANSI flange		125	125	125	250
Code for Impeller diameter		D	C	B	A
DNs	inch(mm)	2.50(65)	2.50(65)	2.50(65)	2.50(65)
Dnd	inch(mm)	2.00(50)	2.00(50)	2.00(50)	2.00(50)
a	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
h2	inch(mm)	7.87(200)	7.87(200)	7.87(200)	7.87(200)
L	inch(mm)	8.66(220)	8.66(220)	8.66(220)	8.66(220)
h1	inch(mm)	6.30(160)	6.30(160)	6.30(160)	6.30(160)
G1	inch(mm)	5.51(140)	5.51(140)	5.51(140)	5.51(140)
G2	inch(mm)	6.10(155)	6.10(155)	6.10(155)	6.10(155)
m1	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
m2	inch(mm)	2.76(70)	2.76(70)	2.76(70)	2.76(70)
n1	inch(mm)	10.43(265)	10.43(265)	10.43(265)	10.43(265)
n2	inch(mm)	8.35(212)	8.35(212)	8.35(212)	8.35(212)
b	inch(mm)	1.97(50)	1.97(50)	1.97(50)	1.97(50)
s	inch(mm)	0.55(14)	0.55(14)	0.55(14)	0.55(14)
D	inch(mm)	6.25(159)	7.00(178)	7.00(178)	8.00(203)
LB	inch(mm)	20.83(529)	23.70(602)	25.24(641)	27.09(688)
AD	inch(mm)	9.49(241)	11.57(294)	11.57(294)	12.05(306)
AG	inch(mm)	6.73(171)	10.35(263)	10.35(263)	10.35(263)
LL	inch(mm)	5.98(152)	7.68(195)	7.68(195)	7.68(195)
BD	inch(mm)	10.00(254)	14.00(356)	14.00(356)	14.00(356)
BA	inch(mm)	4.25(108)	4.76(121)	4.76(121)	5.25(133)
2F	inch(mm)	10.00(254)	9.50(241)	11.00(279)	10.50(267)
2E	inch(mm)	10.00(254)	11.00(279)	11.00(279)	12.50(318)
H	inch(mm)	0.53(13.5)	0.53(13.5)	0.53(13.5)	0.66(17)
Net Weight	lbs(kg)	359(163)	532(242)	565(257)	688(313)
Gross Weight	lbs(kg)	462(210)	648(295)	688(313)	831(378)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	10.38(0.294)	12.64(0.358)	13.54(0.383)	17.19(0.487)

# Performance curves

Single-stage end-suction pumps

## TES 50-2001 2-pole



### Performance data at n=3450 rpm

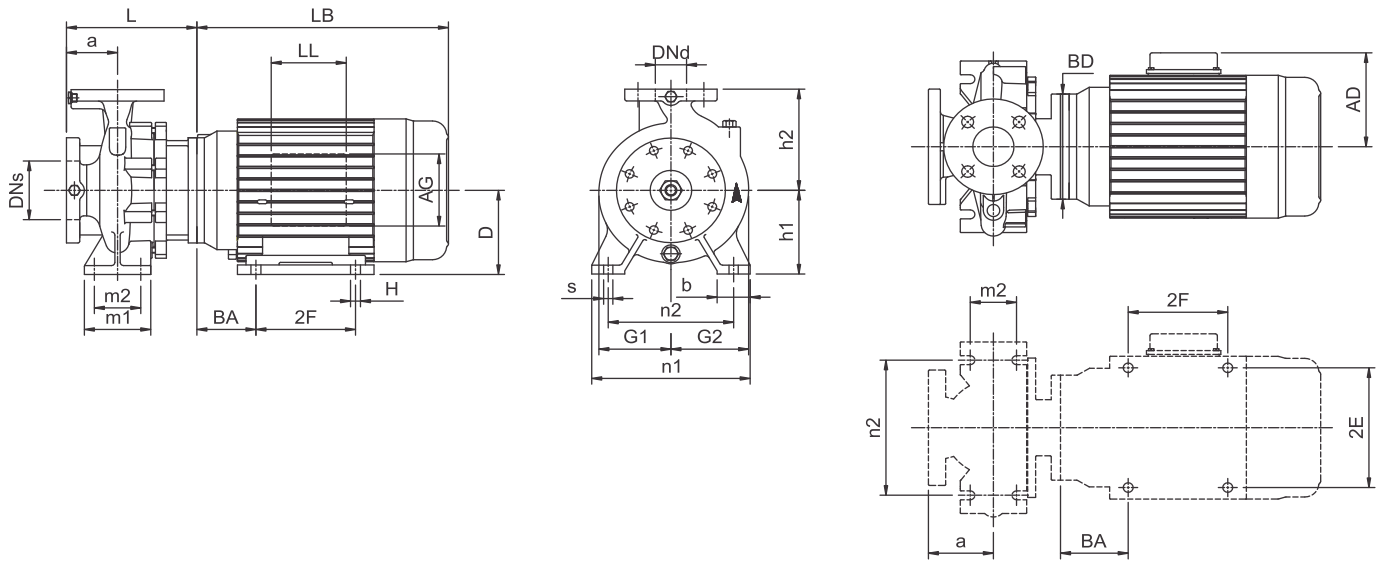
Model	Power		l/min USgpm	189	379	568	757	946	1136	1325	1514	1703	1893
	HP	kW		50	100	150	200	250	300	350	400	450	500
TES 50-2001D	20.0	15.0	H ft.	198.3	195.7	192.3	187.2	178.7	163.4	142.8	106.2	-	-
TES 50-2001C	25.0	18.5		229	226.5	224	218	208.5	195	174.4	141.1	-	-
TES 50-2001B	30.0	22.0		249.5	247.7	245.2	239.2	229.8	216.2	195.7	165.8	114.7	-
TES 50-2001A	40.0	30.0		290.4	287.8	283.6	278.5	270.8	260.5	246	222.2	183.8	123.3

# Technical data

## Single-stage end-suction pumps

# TES 50-2501 2-pole

2 POLE



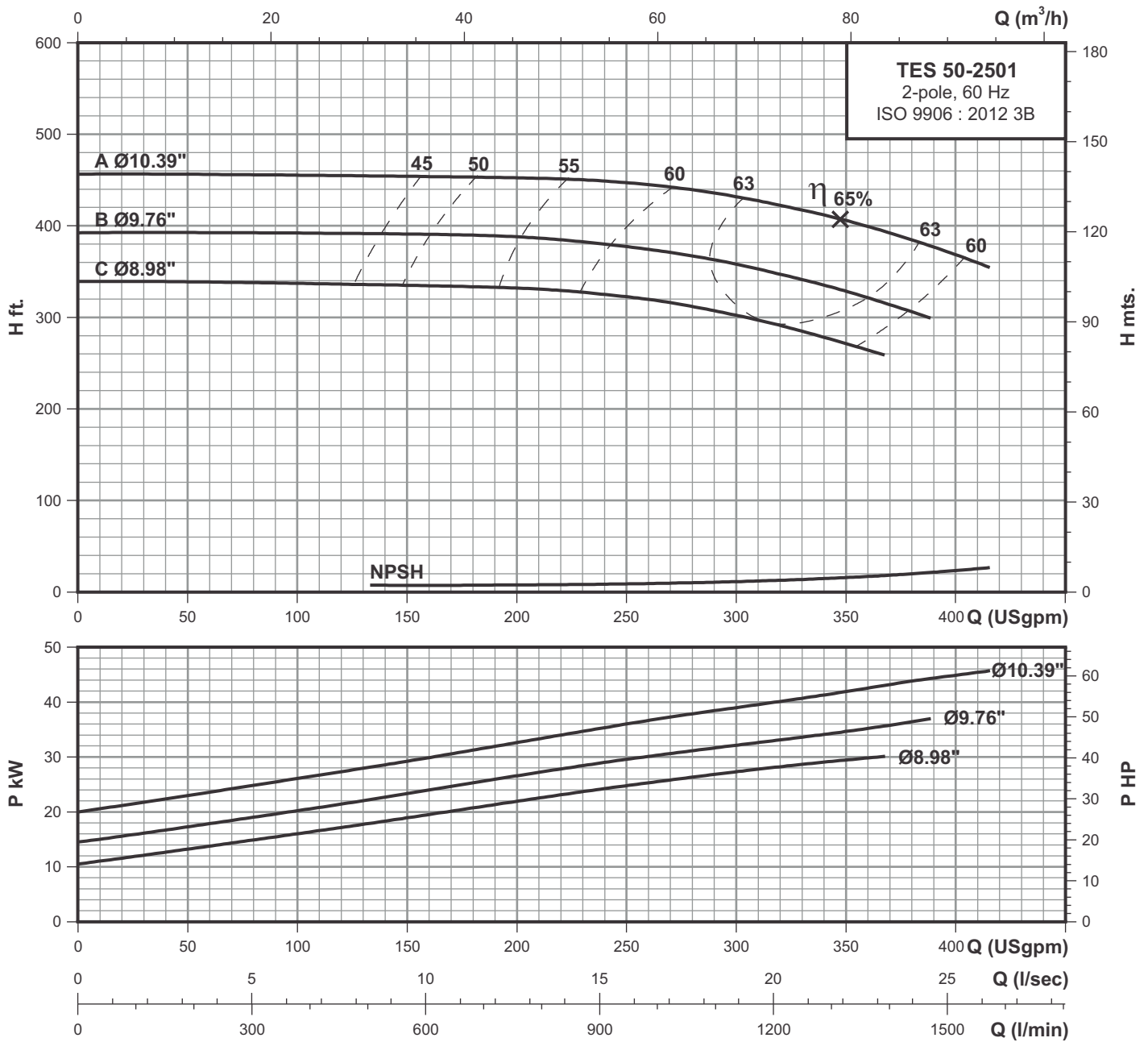
Power	(hp)	40	50	60
	(kw)	30	37	45
Frame		324JM	326JM	364JM
ANSI flange		250	250	250
Code for Impeller diameter		C	B	A
DNs	inch(mm)	2.50(65)	2.50(65)	2.50(65)
Dnd	inch(mm)	2.00(50)	2.00(50)	2.00(50)
a	inch(mm)	3.94(100)	3.94(100)	3.94(100)
h2	inch(mm)	8.86(225)	8.86(225)	8.86(225)
L	inch(mm)	8.86(225)	8.86(225)	8.86(225)
h1	inch(mm)	7.09(180)	7.09(180)	7.09(180)
G1	inch(mm)	6.34(161)	6.34(161)	6.34(161)
G2	inch(mm)	6.89(175)	6.89(175)	6.89(175)
m1	inch(mm)	4.92(125)	4.92(125)	4.92(125)
m2	inch(mm)	3.74(95)	3.74(95)	3.74(95)
n1	inch(mm)	12.60(320)	12.60(320)	12.60(320)
n2	inch(mm)	9.84(250)	9.84(250)	9.84(250)
b	inch(mm)	2.56(65)	2.56(65)	2.56(65)
s	inch(mm)	0.55(14)	0.55(14)	0.55(14)
D	inch(mm)	8.00(203)	8.00(203)	9.00(229)
LB	inch(mm)	27.09(688)	27.09(688)	27.56(700)
AD	inch(mm)	12.05(306)	12.05(306)	12.91(328)
AG	inch(mm)	10.35(263)	10.35(263)	10.35(263)
LL	inch(mm)	7.68(195)	7.68(195)	7.68(195)
BD	inch(mm)	14.00(356)	14.00(356)	14.00(356)
BA	inch(mm)	5.25(133)	5.25(133)	5.87(149)
2F	inch(mm)	10.50(267)	12.00(305)	11.25(286)
2E	inch(mm)	12.50(318)	12.50(318)	14.00(356)
H	inch(mm)	0.66(17)	0.66(17)	0.66(17)
Net Weight	lbs(kg)	712(324)	756(344)	815(371)
Gross Weight	lbs(kg)	881(401)	925(421)	983(447)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	22.70(0.643)	22.70(0.643)	21.96(0.622)



# Performance curves

Single-stage end-suction pumps

## TES 50-2501 2-pole



### Performance data at n=3450 rpm

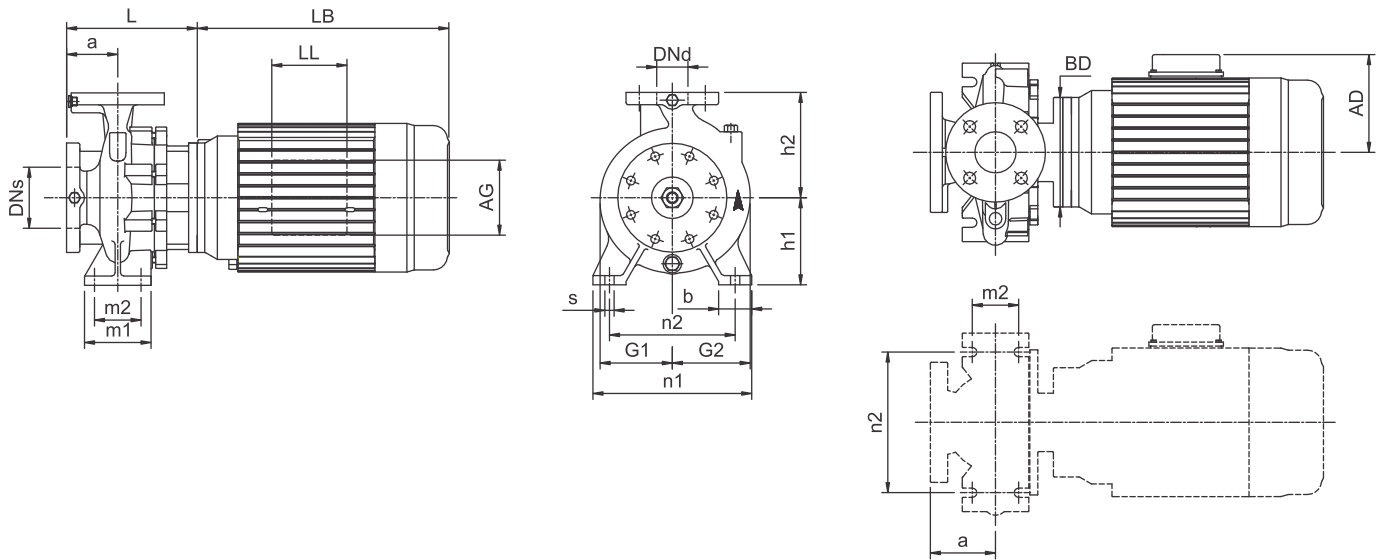
Model	Power		l/min USgpm	189	379	568	757	946	1136	1325	1514
	HP	kW		50	100	150	200	250	300	350	400
TES 50-2501C	40.0	30.0	H ft.	339	337.7	334.6	331.6	322.6	303.2	271.8	-
TES 50-2501B	50.0	37.0		393	391.5	391.5	388.4	378.1	357	328.7	-
TES 50-2501A	60.0	45.0		455.8	455.8	454.3	452.8	446.8	431.9	406.4	369.1

# Technical data

## Single-stage end-suction pumps

# TES 65-1251 2-pole

2 POLE

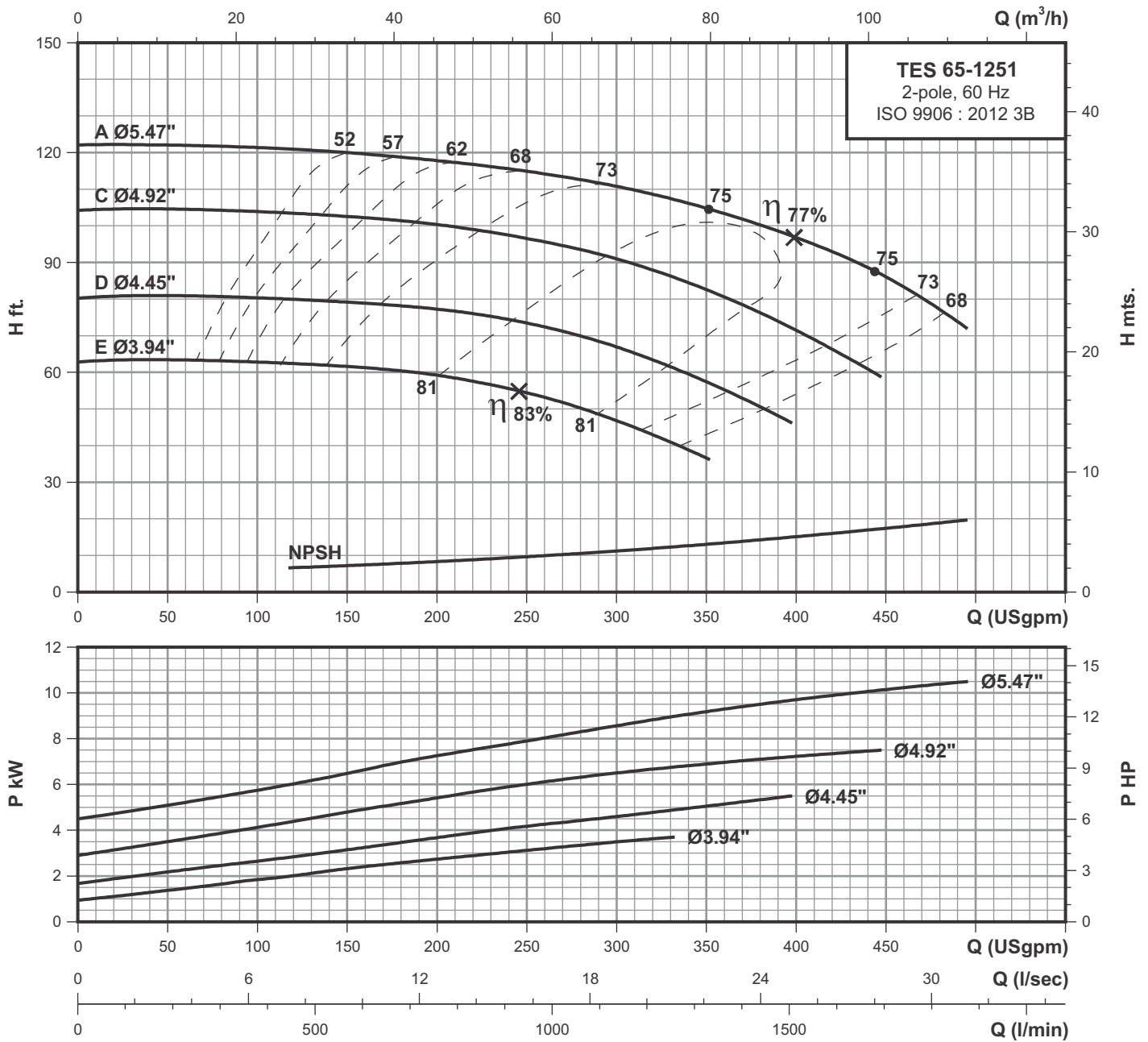


Power	(hp)	5	7.5	10	15
	(kw)	3.7	5.5	7.5	11
Frame		184JM	184JM	215JM	215JM
ANSI flange		125	125	125	125
Code for Impeller diameter		E	D	C	A
DN <sub>s</sub>	inch(mm)	3.00(80)	3.00(80)	3.00(80)	3.00(80)
DN <sub>d</sub>	inch(mm)	2.50(65)	2.50(65)	2.50(65)	2.50(65)
a	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
h <sub>2</sub>	inch(mm)	7.09(180)	7.09(180)	7.09(180)	7.09(180)
L	inch(mm)	7.64(194)	7.64(194)	7.64(194)	7.64(194)
h <sub>1</sub>	inch(mm)	6.30(160)	6.30(160)	6.30(160)	6.30(160)
G <sub>1</sub>	inch(mm)	4.09(104)	4.09(104)	4.09(104)	4.09(104)
G <sub>2</sub>	inch(mm)	5.08(129)	5.08(129)	5.08(129)	5.08(129)
m <sub>1</sub>	inch(mm)	4.92(125)	4.92(125)	4.92(125)	4.92(125)
m <sub>2</sub>	inch(mm)	3.74(95)	3.74(95)	3.74(95)	3.74(95)
n <sub>1</sub>	inch(mm)	11.02(280)	11.02(280)	11.02(280)	11.02(280)
n <sub>2</sub>	inch(mm)	8.35(212)	8.35(212)	8.35(212)	8.35(212)
b	inch(mm)	2.56(65)	2.56(65)	2.56(65)	2.56(65)
s	inch(mm)	0.55(14)	0.55(14)	0.55(14)	0.55(14)
D	inch(mm)	-	-	-	-
LB	inch(mm)	13.31(338)	13.31(338)	16.42(417)	16.42(417)
AD	inch(mm)	6.46(164)	6.46(164)	7.40(188)	7.40(188)
AG	inch(mm)	3.98(101)	3.98(101)	5.16(131)	5.16(131)
LL	inch(mm)	3.98(101)	3.98(101)	5.16(131)	5.16(131)
BD	inch(mm)	6.50(165)	6.50(165)	8.86(225)	8.86(225)
BA	inch(mm)	-	-	-	-
2F	inch(mm)	-	-	-	-
2E	inch(mm)	-	-	-	-
H	inch(mm)	-	-	-	-
Net Weight	lbs(kg)	156(71)	173(78)	230(104)	252(114)
Gross Weight	lbs(kg)	178(81)	195(88)	252(114)	274(124)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	3.67(0.104)	3.67(0.104)	5.01(0.142)	5.01(0.142)

# Performance curves

Single-stage end-suction pumps

## TES 65-1251 2-pole



### Performance data at n=3450 rpm

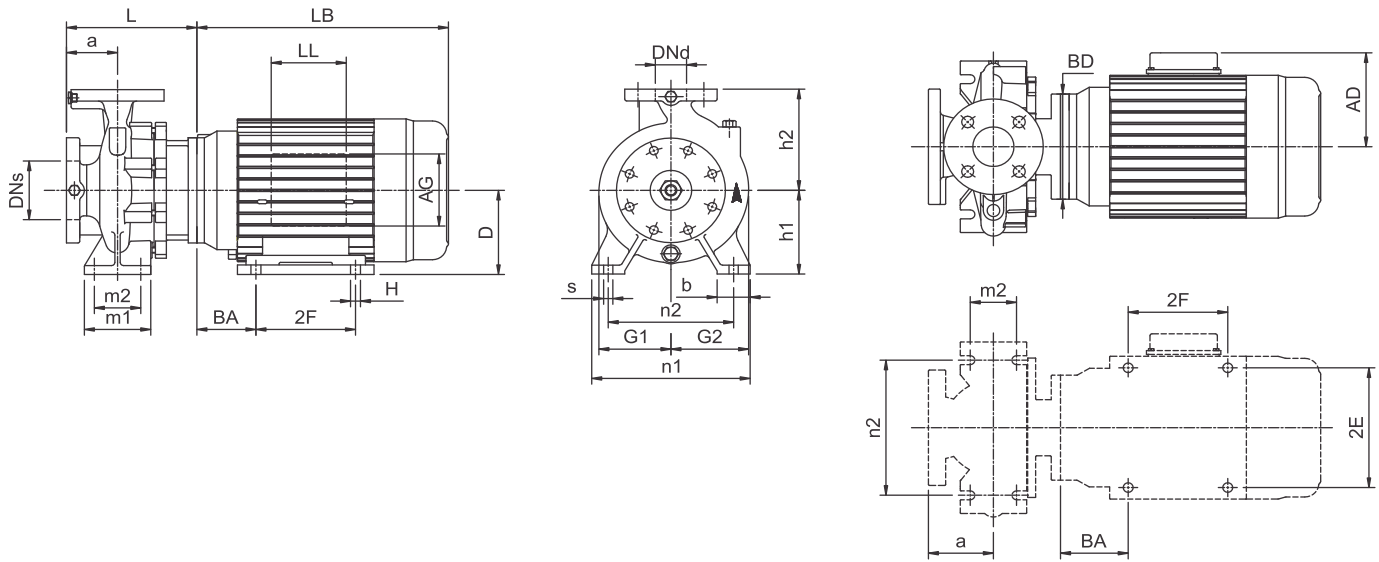
Model	Power		l/min USgpm	189	379	568	757	946	1136	1325	1514	1703
	HP	kW		50	100	150	200	250	300	350	400	450
TES 65-1251E	5.00	3.70	H ft.	63.4	62.8	61.7	59.3	54.3	46.6	36.4	-	-
TES 65-1251D	7.50	5.50		81	80.3	79.2	77.1	73.3	66.9	57.5	-	-
TES 65-1251C	10.0	7.50		104.5	103.8	102.4	100.3	96.4	90.8	82.8	71.2	-
TES 65-1251A	15.0	11.0		122.1	121.3	120	117.9	115	110.8	104.9	96.8	86.3

# Technical data

## Single-stage end-suction pumps

# TES 65-1601 2-pole

2 POLE

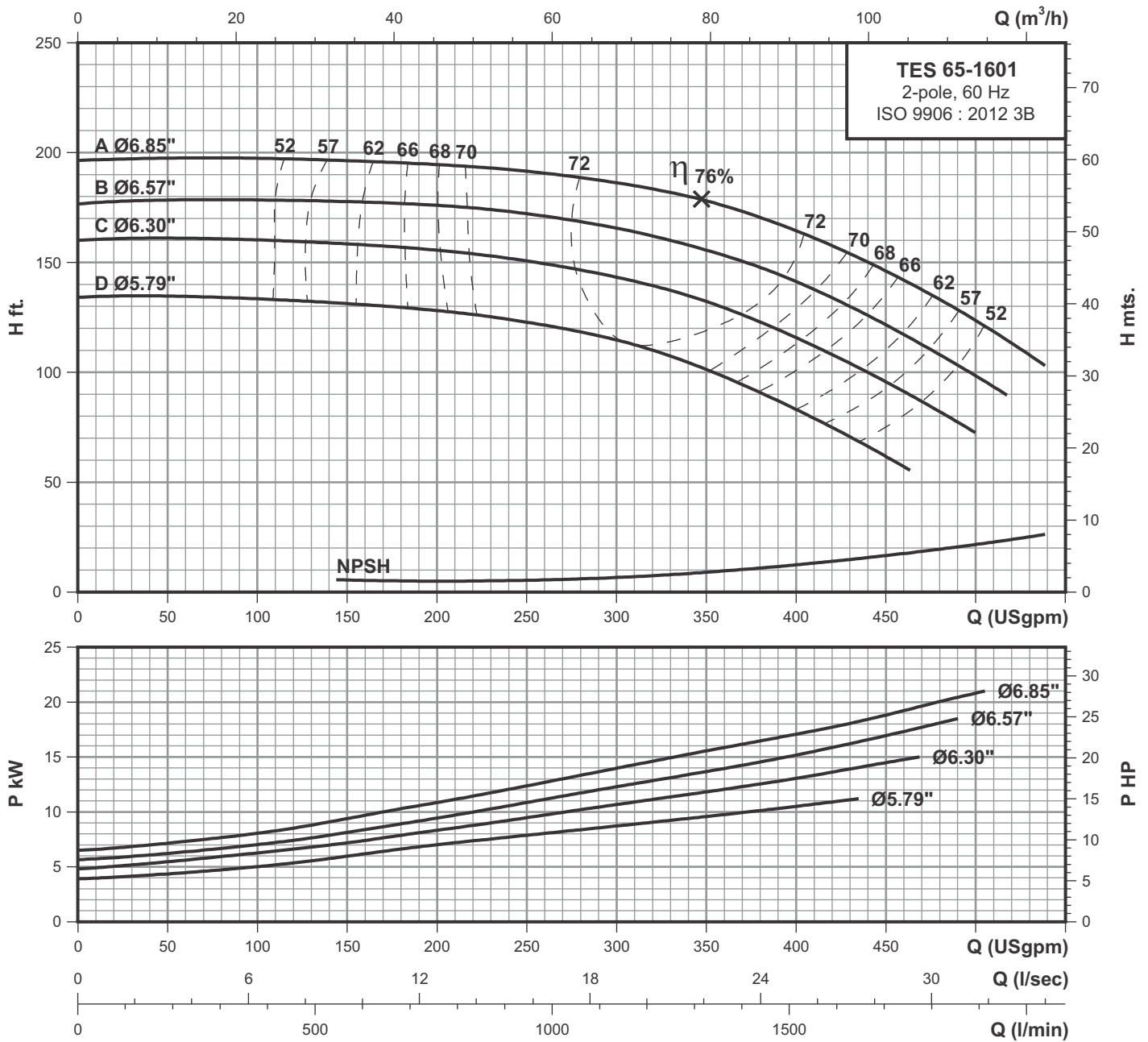


Power	(hp)	15	20	25	30
	(kw)	11	15	18.5	22
Frame		215JM	256JM	284JM	286JM
ANSI flange		125	125	125	125
Code for Impeller diameter		D	C	B	A
DNs	inch(mm)	3.00(80)	3.00(80)	3.00(80)	3.00(80)
Dnd	inch(mm)	2.50(65)	2.50(65)	2.50(65)	2.50(65)
a	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
h2	inch(mm)	7.87(200)	7.87(200)	7.87(200)	7.87(200)
L	inch(mm)	7.64(194)	8.46(215)	8.46(215)	8.46(215)
h1	inch(mm)	6.30(160)	6.30(160)	6.30(160)	6.30(160)
G1	inch(mm)	4.72(120)	4.72(120)	4.72(120)	4.72(120)
G2	inch(mm)	5.51(140)	5.51(140)	5.51(140)	5.51(140)
m1	inch(mm)	4.92(125)	4.92(125)	4.92(125)	4.92(125)
m2	inch(mm)	3.74(95)	3.74(95)	3.74(95)	3.74(95)
n1	inch(mm)	11.02(280)	11.02(280)	11.02(280)	11.02(280)
n2	inch(mm)	8.35(212)	8.35(212)	8.35(212)	8.35(212)
b	inch(mm)	2.56(65)	2.56(65)	2.56(65)	2.56(65)
s	inch(mm)	0.55(14)	0.55(14)	0.55(14)	0.55(14)
D	inch(mm)	-	6.25(159)	7.00(178)	7.00(178)
LB	inch(mm)	16.42(417)	20.83(529)	23.70(602)	25.24(641)
AD	inch(mm)	7.40(188)	9.49(241)	11.57(294)	11.57(294)
AG	inch(mm)	5.16(131)	6.73(171)	10.35(263)	10.35(263)
LL	inch(mm)	5.16(131)	5.98(152)	7.68(195)	7.68(195)
BD	inch(mm)	8.86(225)	10.00(254)	14.00(356)	14.00(356)
BA	inch(mm)	-	4.25(108)	4.76(121)	4.76(121)
2F	inch(mm)	-	10.00(254)	9.50(241)	11.00(279)
2E	inch(mm)	-	10.00(254)	11.00(279)	11.00(279)
H	inch(mm)	-	0.53(13.5)	0.53(13.5)	0.53(13.5)
Net Weight	lbs(kg)	256(117)	356(162)	533(242)	566(257)
Gross Weight	lbs(kg)	278(127)	472(215)	649(295)	689(313)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	5.01(0.142)	12.64(0.358)	12.64(0.358)	13.54(0.383)

# Performance curves

Single-stage end-suction pumps

## TES 65-1601 2-pole



**2 POLE**

### Performance data at n=3450 rpm

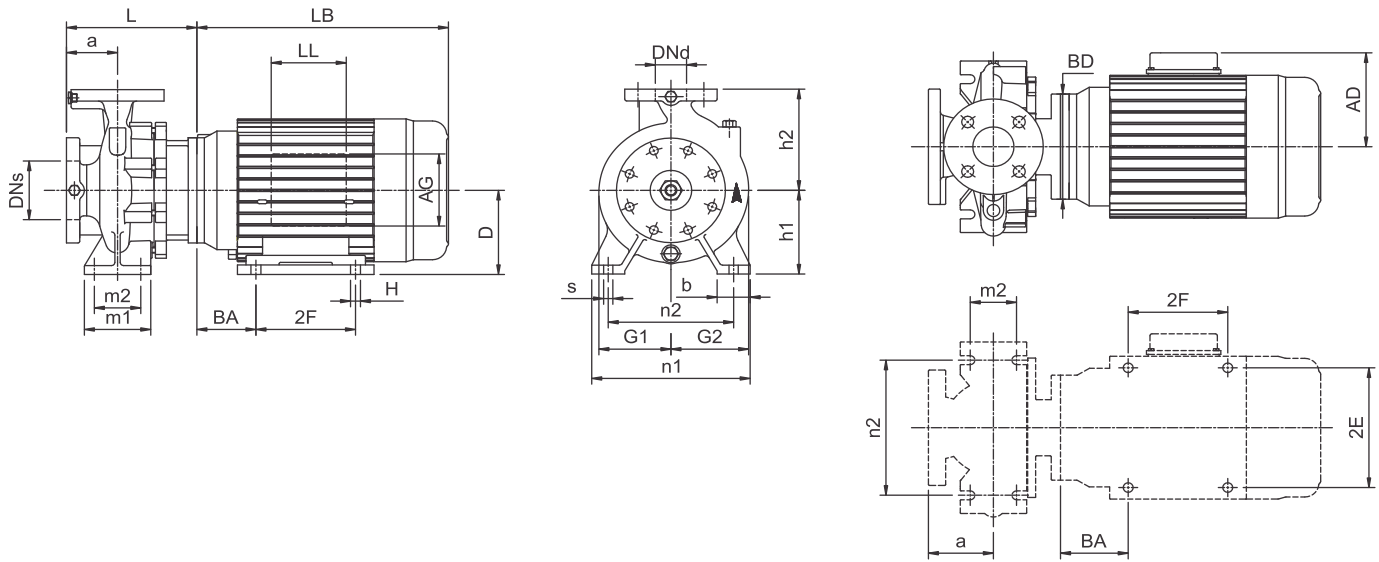
Model	Power		l/min USgpm	189	379	568	757	946	1136	1325	1514	1703	1893
	HP	kW		50	100	150	200	250	300	350	400	450	500
TES 65-1601D	15.0	11.0	H ft.	134.6	133.3	131.3	128	122.7	114.8	101	83.1	62	-
TES 65-1601C	20.0	15.0		161	160.4	158.4	155.7	150.4	143.2	132	115.5	95.7	72.6
TES 65-1601B	25.0	18.5		178.1	178.1	177.5	176.2	172.2	165.6	155.7	142	121.4	99
TES 65-1601A	30.0	22.0		197.3	197.3	196	194.7	191.4	186.1	178.1	164.3	146.5	124

# Technical data

## Single-stage end-suction pumps

# TES 65-160L1 2-pole

2 POLE

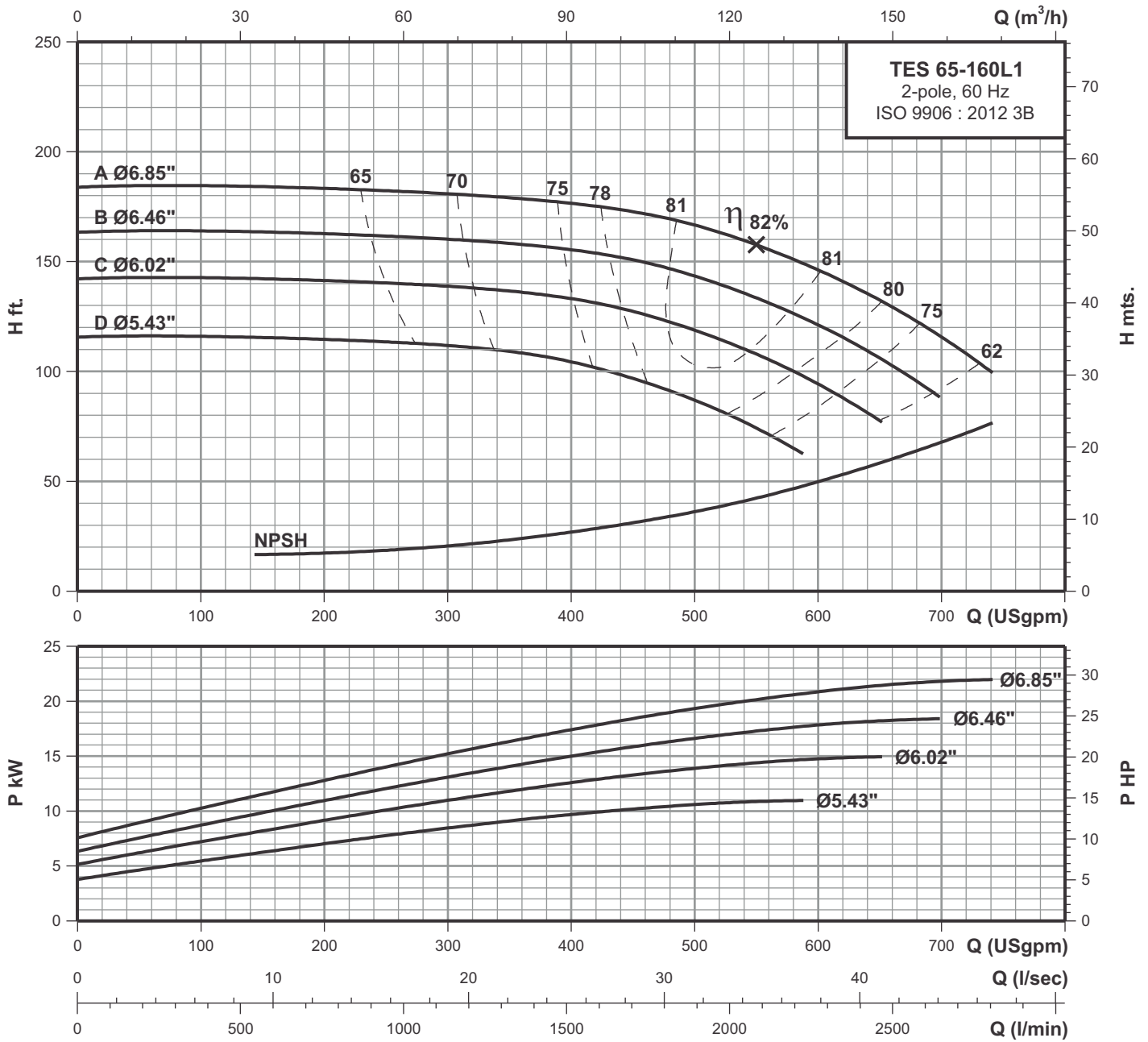


Power	(hp)	15	20	25	30
	(kw)	11	15	18.5	22
Frame		215JM	256JM	284JM	286JM
ANSI flange		125	125	125	125
Code for Impeller diameter		D	C	B	A
DNs	inch(mm)	3.00(80)	3.00(80)	3.00(80)	3.00(80)
Dnd	inch(mm)	2.50(65)	2.50(65)	2.50(65)	2.50(65)
a	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
h2	inch(mm)	7.87(200)	7.87(200)	7.87(200)	7.87(200)
L	inch(mm)	7.64(194)	8.46(215)	8.46(215)	8.46(215)
h1	inch(mm)	6.30(160)	6.30(160)	6.30(160)	6.30(160)
G1	inch(mm)	4.72(120)	4.72(120)	4.72(120)	4.72(120)
G2	inch(mm)	5.51(140)	5.51(140)	5.51(140)	5.51(140)
m1	inch(mm)	4.92(125)	4.92(125)	4.92(125)	4.92(125)
m2	inch(mm)	3.74(95)	3.74(95)	3.74(95)	3.74(95)
n1	inch(mm)	11.02(280)	11.02(280)	11.02(280)	11.02(280)
n2	inch(mm)	8.35(212)	8.35(212)	8.35(212)	8.35(212)
b	inch(mm)	2.56(65)	2.56(65)	2.56(65)	2.56(65)
s	inch(mm)	0.55(14)	0.55(14)	0.55(14)	0.55(14)
D	inch(mm)	-	6.25(159)	7.00(178)	7.00(178)
LB	inch(mm)	16.42(417)	20.83(529)	23.70(602)	25.24(641)
AD	inch(mm)	7.40(188)	9.49(241)	11.57(294)	11.57(294)
AG	inch(mm)	5.16(131)	6.73(171)	10.35(263)	10.35(263)
LL	inch(mm)	5.16(131)	5.98(152)	7.68(195)	7.68(195)
BD	inch(mm)	8.86(225)	10.00(254)	14.00(356)	14.00(356)
BA	inch(mm)	-	4.25(108)	4.76(121)	4.76(121)
2F	inch(mm)	-	10.00(254)	9.50(241)	11.00(279)
2E	inch(mm)	-	10.00(254)	11.00(279)	11.00(279)
H	inch(mm)	-	0.53(13.5)	0.53(13.5)	0.53(13.5)
Net Weight	lbs(kg)	256(117)	356(162)	533(242)	566(257)
Gross Weight	lbs(kg)	278(127)	472(215)	649(295)	689(313)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	5.01(0.142)	12.64(0.358)	12.64(0.358)	13.54(0.383)

# Performance curves

Single-stage end-suction pumps

# TES 65-160L1 2-pole



## Performance data at n=3450 rpm

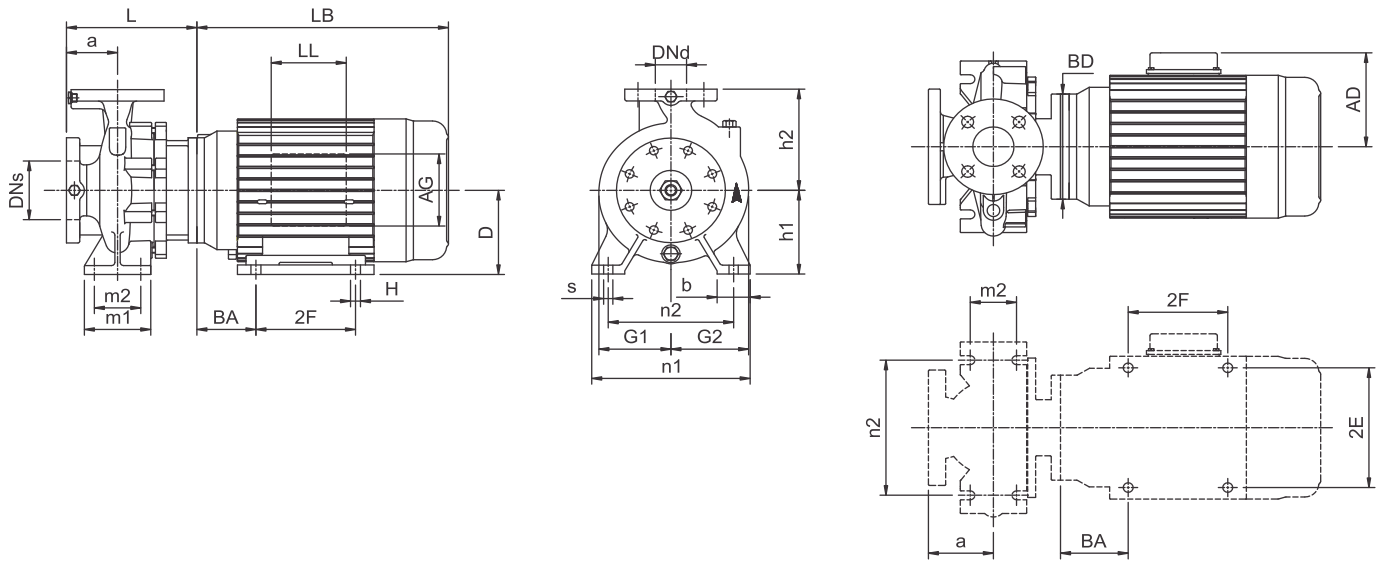
Model	Power		l/min USgpm	379	757	1136	1514	1703	1893	2083	2271	2462	2650
	HP	kW		100	200	300	400	450	500	550	600	650	700
TES 65-160L1D	15.0	11.0	H ft.	115	114.8	112	104	96.5	86.5	74.5	-	-	-
TES 65-160L1C	20.0	15.0		143	141.5	139	133	127.5	118.5	107.5	94	77.5	-
TES 65-160L1B	25.0	18.5		164	162.5	160	155	150	144	133	120.5	105	-
TES 65-160L1A	30.0	22.0		184	183	180	177.5	173	166.5	157	155.5	132	115

# Technical data

## Single-stage end-suction pumps

# TES 65-2001 2-pole

2 POLE



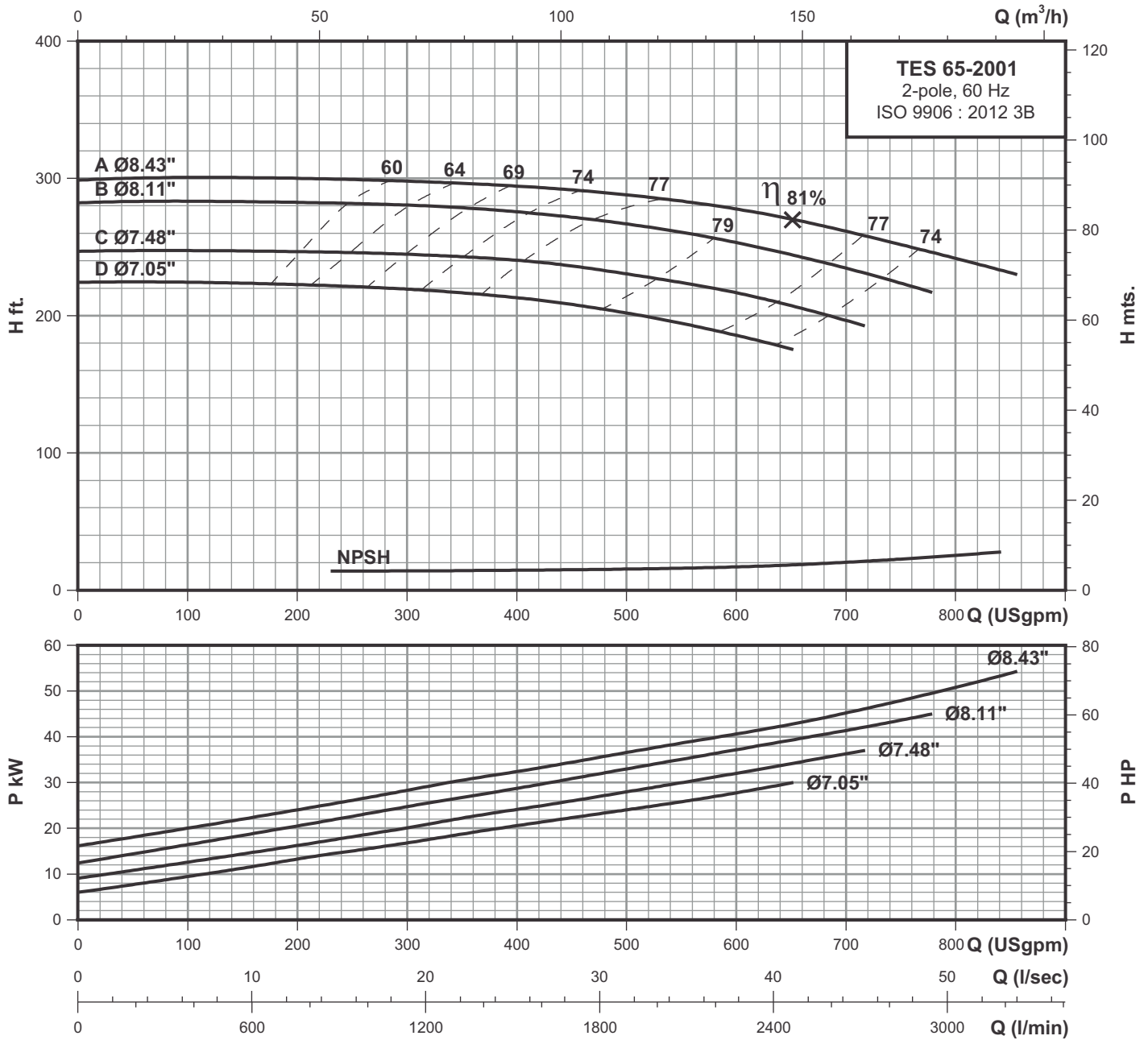
Power	(hp)	40	50	60	75
	(kw)	30	37	45	55
Frame		324JM	326JM	364JM	365JM
ANSI flange		125	125	125	250
Code for Impeller diameter		D	C	B	A
DNs	inch(mm)	3.00(80)	3.00(80)	3.00(80)	3.00(80)
Dnd	inch(mm)	2.50(65)	2.50(65)	2.50(65)	2.50(65)
a	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
h2	inch(mm)	8.86(225)	8.86(225)	8.86(225)	8.86(225)
L	inch(mm)	8.66(220)	8.66(220)	8.66(220)	8.66(220)
h1	inch(mm)	7.09(180)	7.09(180)	7.09(180)	7.09(180)
G1	inch(mm)	5.91(150)	5.91(150)	5.91(150)	5.91(150)
G2	inch(mm)	6.81(173)	6.81(173)	6.81(173)	6.81(173)
m1	inch(mm)	4.92(125)	4.92(125)	4.92(125)	4.92(125)
m2	inch(mm)	3.74(95)	3.74(95)	3.74(95)	3.74(95)
n1	inch(mm)	12.60(320)	12.60(320)	12.60(320)	12.60(320)
n2	inch(mm)	9.84(250)	9.84(250)	9.84(250)	9.84(250)
b	inch(mm)	2.56(65)	2.56(65)	2.56(65)	2.56(65)
s	inch(mm)	0.55(14)	0.55(14)	0.55(14)	0.55(14)
D	inch(mm)	8.00(203)	8.00(203)	9.00(229)	9.00(229)
LB	inch(mm)	27.09(688)	27.09(688)	27.56(700)	28.54(725)
AD	inch(mm)	12.05(306)	12.05(306)	12.91(328)	12.91(328)
AG	inch(mm)	10.35(263)	10.35(263)	10.35(263)	10.35(263)
LL	inch(mm)	7.68(195)	7.68(195)	7.68(195)	7.68(195)
BD	inch(mm)	14.00(356)	14.00(356)	14.00(356)	14.00(356)
BA	inch(mm)	5.25(133)	5.25(133)	5.87(149)	5.87(149)
2F	inch(mm)	10.50(267)	12.00(305)	11.25(286)	12.25(311)
2E	inch(mm)	12.50(318)	12.50(318)	14.00(356)	14.00(356)
H	inch(mm)	0.66(17)	0.66(17)	0.66(17)	0.66(17)
Net Weight	lbs(kg)	700(318)	744(338)	804(365)	918(417)
Gross Weight	lbs(kg)	869(395)	913(415)	971(441)	1085(493)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	22.70(0.643)	22.70(0.643)	21.96(0.622)	21.96(0.622)



# Performance curves

Single-stage end-suction pumps

## TES 65-2001 2-pole



**2 POLE**

### Performance data at n=3450 rpm

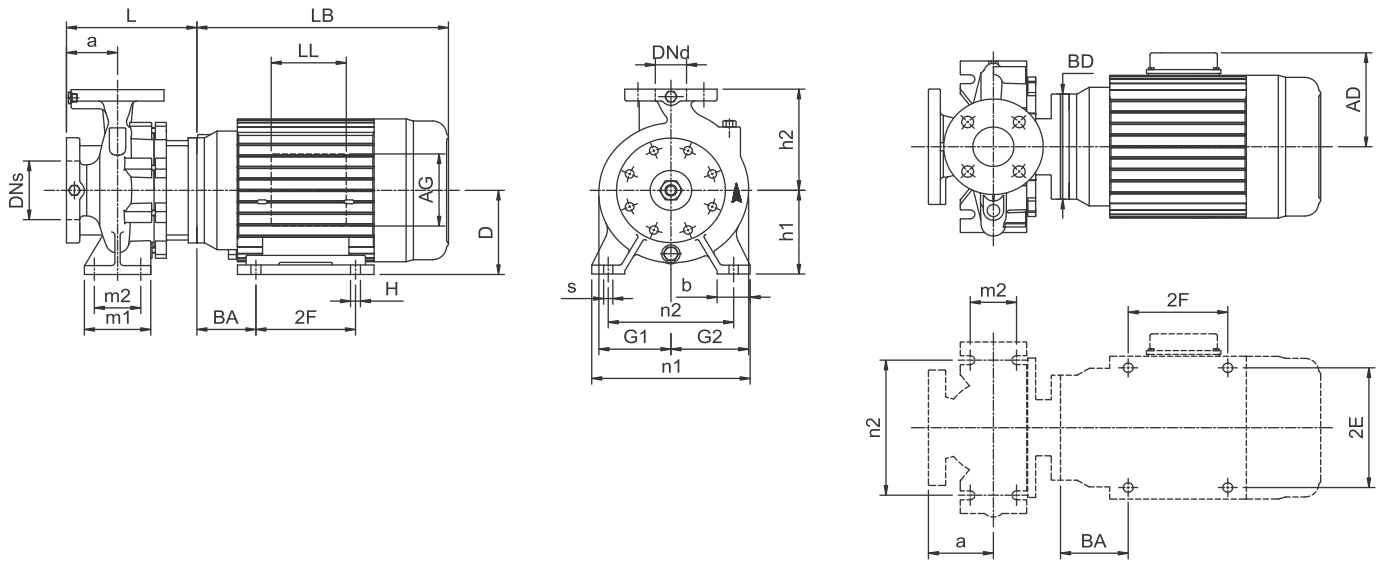
Model	Power		l/min USgpm	379	757	1136	1514	1893	2271	2650	3028
	HP	kW		100	200	300	400	500	600	700	800
TES 65-2001D	40.0	30.0	H ft.	224.7	222.6	219.3	212.8	202	185.7	-	-
TES 65-2001C	50.0	37.0		247.5	246.5	244.2	240	230.2	217.2	196.5	-
TES 65-2001B	60.0	45.0		283.3	282.2	280.1	275.7	267.1	253	234.5	-
TES 65-2001A	75.0	55.0		300.7	299.6	297.5	294.2	287.7	277.8	261.6	242.1

# Technical data

## Single-stage end-suction pumps

# TES 65-2501 2-pole

2 POLE

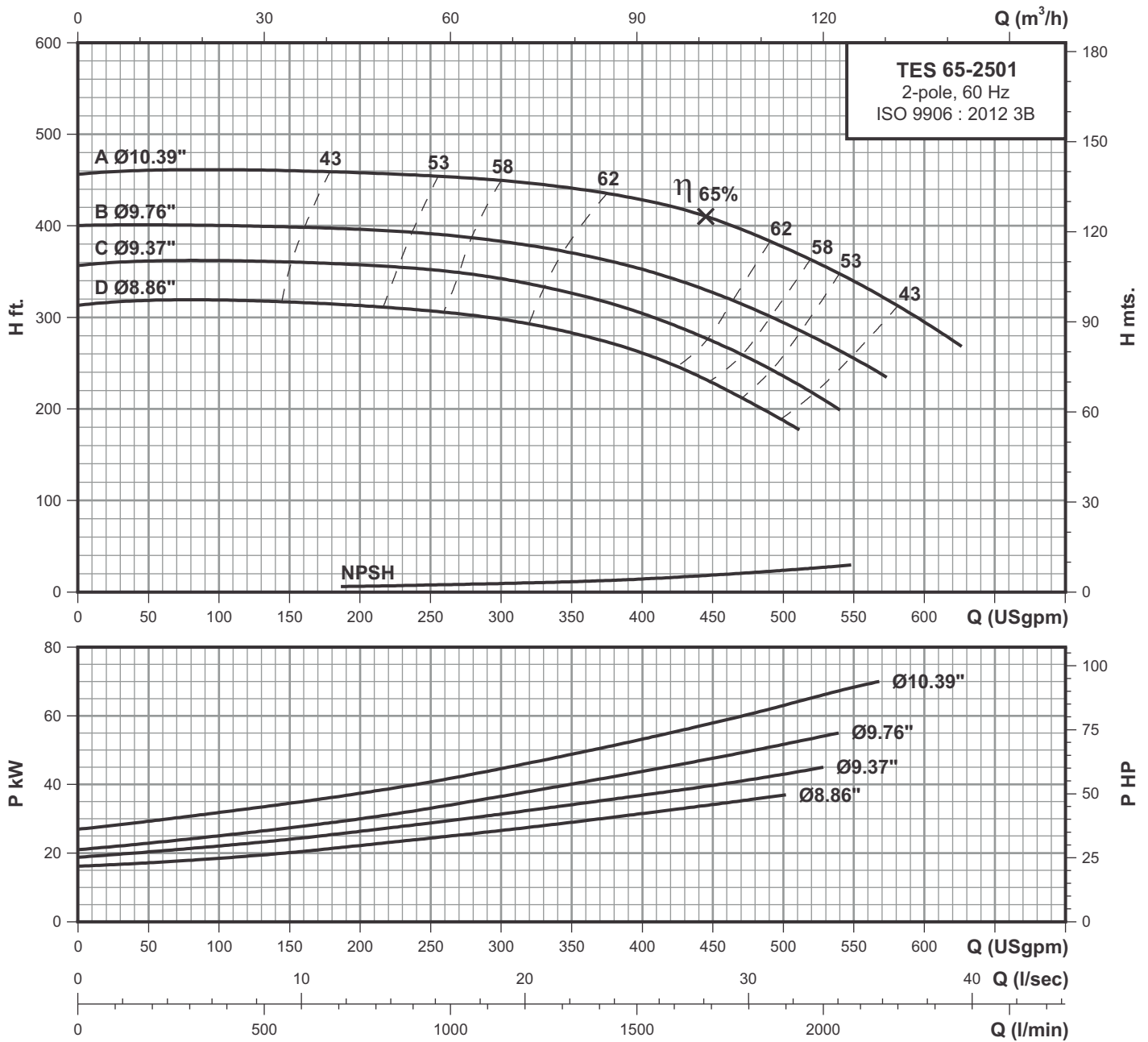


Power	(hp)	50	60	75	100
	(kw)	37	45	55	75
Frame		326JM	364JM	365JM	450TSC
ANSI flange		250	250	250	250
Code for Impeller diameter		D	C	B	A
DNs	inch(mm)	3.00(80)	3.00(80)	3.00(80)	3.00(80)
Dnd	inch(mm)	2.50(65)	2.50(65)	2.50(65)	2.50(65)
a	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
h2	inch(mm)	9.84(250)	9.84(250)	9.84(250)	9.84(250)
L	inch(mm)	9.13(232)	9.13(232)	9.13(232)	15.91(404)
h1	inch(mm)	7.87(200)	7.87(200)	7.87(200)	7.87(200)
G1	inch(mm)	6.50(165)	6.50(165)	6.50(165)	6.50(165)
G2	inch(mm)	7.20(183)	7.20(183)	7.20(183)	7.20(183)
m1	inch(mm)	6.30(160)	6.30(160)	6.30(160)	6.30(160)
m2	inch(mm)	4.72(120)	4.72(120)	4.72(120)	4.72(120)
n1	inch(mm)	14.17(360)	14.17(360)	14.17(360)	14.17(360)
n2	inch(mm)	11.02(280)	11.02(280)	11.02(280)	11.02(280)
b	inch(mm)	3.15(80)	3.15(80)	3.15(80)	3.15(80)
s	inch(mm)	0.71(18)	0.71(18)	0.71(18)	0.71(18)
D	inch(mm)	8.00(203)	9.00(229)	9.00(229)	10.00(254)
LB	inch(mm)	27.09(688)	27.56(700)	28.54(725)	31.22(793)
AD	inch(mm)	12.05(306)	12.91(328)	12.91(328)	16.30(414)
AG	inch(mm)	10.35(263)	10.35(263)	10.35(263)	12.87(327)
LL	inch(mm)	7.68(195)	7.68(195)	7.68(195)	9.45(240)
BD	inch(mm)	14.00(356)	14.00(356)	14.00(356)	15.51(394)
BA	inch(mm)	5.25(133)	5.87(149)	5.87(149)	6.62(168)
2F	inch(mm)	12.00(305)	11.25(286)	12.25(311)	13.75(349)
2E	inch(mm)	12.50(318)	14.00(356)	14.00(356)	16.00(406)
H	inch(mm)	0.66(17)	0.66(17)	0.66(17)	0.81(21)
Net Weight	lbs(kg)	779(354)	838(381)	953(433)	1375(625)
Gross Weight	lbs(kg)	948(431)	1006(457)	1120(509)	1591(723)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	22.70(0.643)	21.96(0.622)	21.96(0.622)	32.62(0.924)

# Performance curves

Single-stage end-suction pumps

## TES 65-2501 2-pole



### Performance data at n=3450 rpm

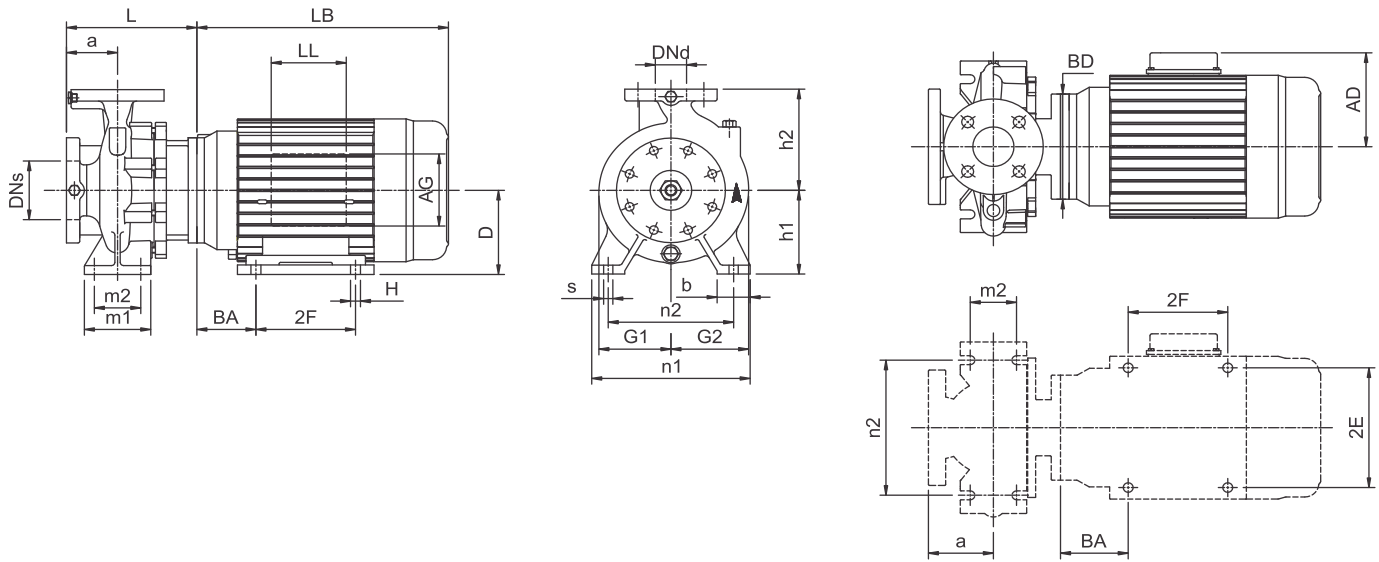
Model	Power		l/min USgpm	379	568	757	946	1136	1325	1514	1703	1893	2082	2271
	HP	kW		100	150	200	250	300	350	400	450	500	550	600
TES 65-2501D	50.0	37.0	H ft.	318.3	316.8	312.4	306.4	297.5	284	261	229	187.4	-	-
TES 65-2501C	60.0	45.0		361.4	360	357	352.5	342.1	327.2	305	275.2	236.5	-	-
TES 65-2501B	75.0	55.0		400.2	398.6	395.6	391.2	383.7	370.5	352	327.2	294.6	255.8	-
TES 65-2501A	100.0	75.0		461.1	459.6	458.2	455.2	449.2	440.3	428.4	407.7	377.8	340	296

# Technical data

## Single-stage end-suction pumps

# TES 80-1601 2-pole

2 POLE

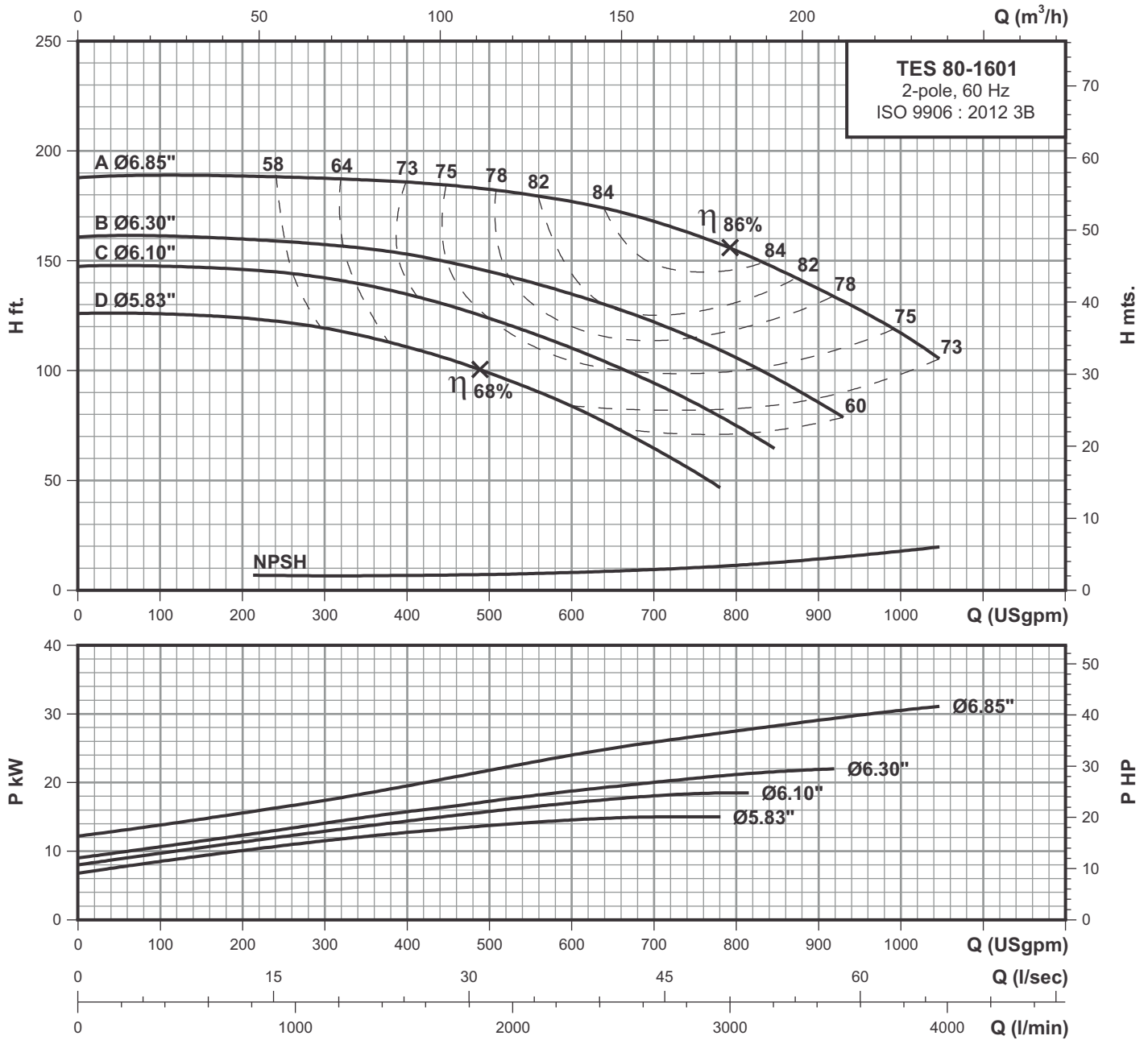


Power	(hp)	20	25	30	40
	(kw)	15	18.5	22	30
Frame		256JM	284JM	286JM	324JM
ANSI flange		125	125	125	125
Code for Impeller diameter		D	C	B	A
DNs	inch(mm)	4.00(100)	4.00(100)	4.00(100)	4.00(100)
Dnd	inch(mm)	3.00(80)	3.00(80)	3.00(80)	3.00(80)
a	inch(mm)	4.92(125)	4.92(125)	4.92(125)	4.92(125)
h2	inch(mm)	8.86(225)	8.86(225)	8.86(225)	8.86(225)
L	inch(mm)	9.84(250)	9.84(250)	9.84(250)	9.84(250)
h1	inch(mm)	7.09(180)	7.09(180)	7.09(180)	7.09(180)
G1	inch(mm)	5.20(132)	5.20(132)	5.20(132)	5.20(132)
G2	inch(mm)	6.18(157)	6.18(157)	6.18(157)	6.18(157)
m1	inch(mm)	4.92(125)	4.92(125)	4.92(125)	4.92(125)
m2	inch(mm)	3.74(95)	3.74(95)	3.74(95)	3.74(95)
n1	inch(mm)	12.60(320)	12.60(320)	12.60(320)	12.60(320)
n2	inch(mm)	9.84(250)	9.84(250)	9.84(250)	9.84(250)
b	inch(mm)	2.56(65)	2.56(65)	2.56(65)	2.56(65)
s	inch(mm)	0.55(14)	0.55(14)	0.55(14)	0.55(14)
D	inch(mm)	6.25(159)	7.00(178)	7.00(178)	8.00(203)
LB	inch(mm)	20.83(529)	23.70(602)	25.24(641)	27.09(688)
AD	inch(mm)	9.49(241)	11.57(294)	11.57(294)	12.05(306)
AG	inch(mm)	6.73(171)	10.35(263)	10.35(263)	10.35(263)
LL	inch(mm)	5.98(152)	7.68(195)	7.68(195)	7.68(195)
BD	inch(mm)	10.00(254)	14.00(356)	14.00(356)	14.00(356)
BA	inch(mm)	4.25(108)	4.76(121)	4.76(121)	5.25(133)
2F	inch(mm)	10.00(254)	9.50(241)	11.00(279)	10.50(267)
2E	inch(mm)	10.00(254)	11.00(279)	11.00(279)	12.50(318)
H	inch(mm)	0.53(13.5)	0.53(13.5)	0.53(13.5)	0.66(17)
Net Weight	lbs(kg)	376(171)	552(251)	585(266)	709(322)
Gross Weight	lbs(kg)	508(231)	669(304)	709(322)	852(387)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	15.22(0.431)	12.64(0.358)	13.54(0.383)	17.19(0.487)

# Performance curves

Single-stage end-suction pumps

## TES 80-1601 2-pole



### Performance data at n=3450 rpm

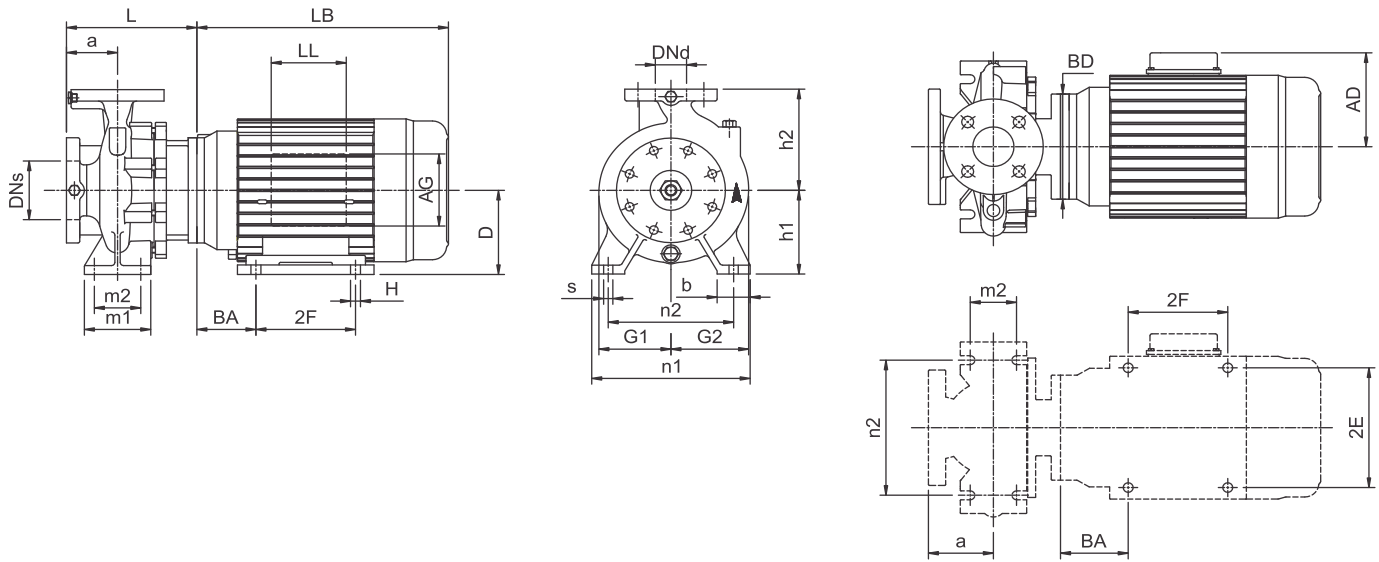
Model	Power		l/min USgpm	379	757	1136	1514	1893	2271	2650	3028	3407	3785
	HP	kW		100	200	300	400	500	600	700	800	900	1000
TES 80-1601D	20.0	15.0	H ft.	125.8	124	119.5	110.7	98.8	83.7	64.3	-	-	-
TES 80-1601C	25.0	18.5		147.7	145.8	142.1	134.6	124	110	94.4	75.6	-	-
TES 80-1601B	30.0	22.0		161.5	159.7	157.1	152.8	145.2	135.2	122	106.3	85.6	-
TES 80-1601A	40.0	30.0		189.1	188.5	187.2	186	182.2	177.2	168.4	154.3	137	117

# Technical data

## Single-stage end-suction pumps

# TES 80-2001 2-pole

2 POLE

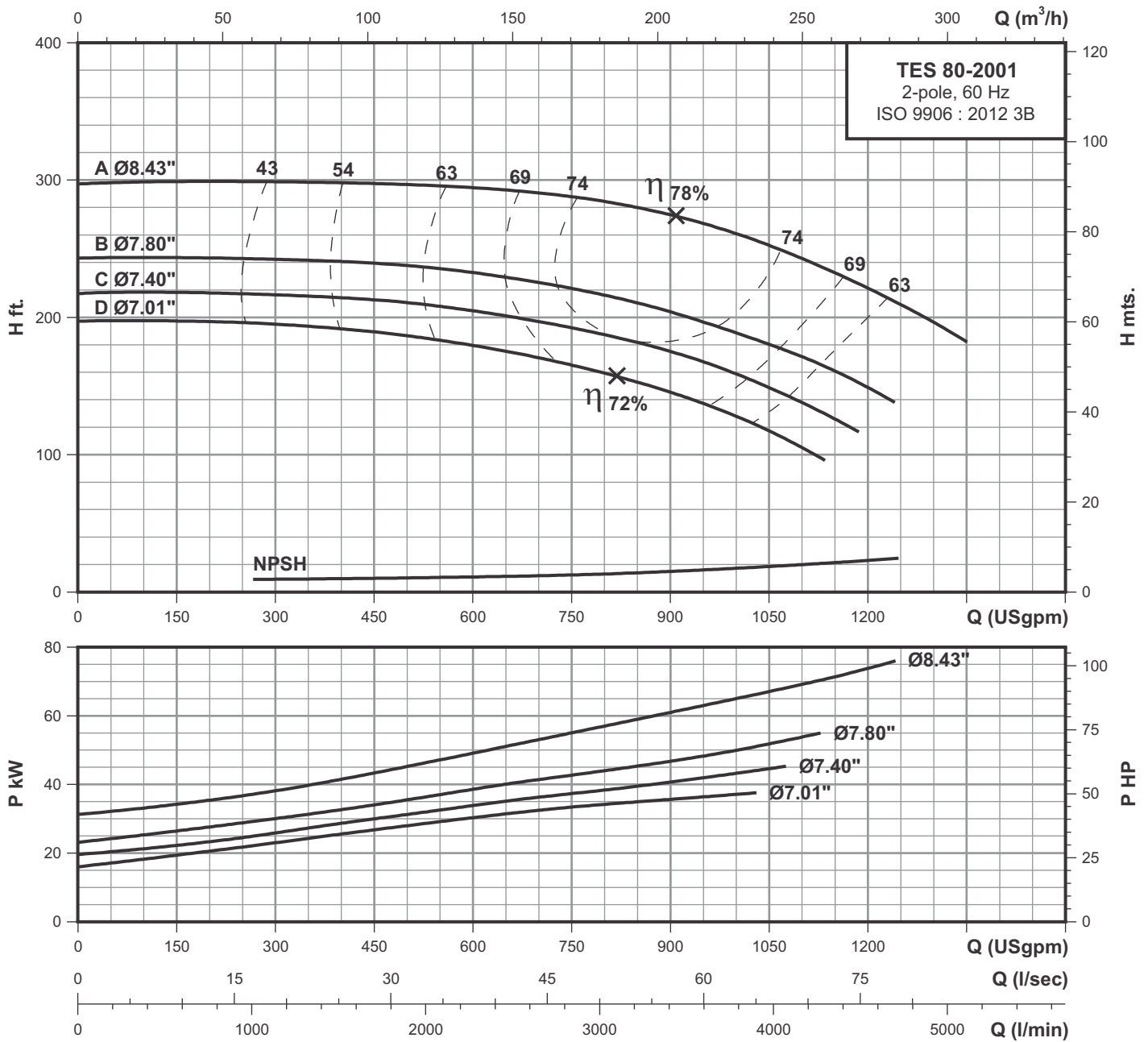


Power	(hp)	50	60	75	100
	(kw)	37	45	55	75
Frame		326JM	364JM	365JM	405TSC
ANSI flange		125	125	125	250
Code for Impeller diameter		D	C	B	A
DNs	inch(mm)	4.00(100)	4.00(100)	4.00(100)	4.00(100)
Dnd	inch(mm)	3.00(80)	3.00(80)	3.00(80)	3.00(80)
a	inch(mm)	4.92(125)	4.92(125)	4.92(125)	4.92(125)
h2	inch(mm)	9.84(250)	9.84(250)	9.84(250)	9.84(250)
L	inch(mm)	10.08(256)	10.08(256)	10.08(256)	17.17(436)
h1	inch(mm)	7.09(180)	7.09(180)	7.09(180)	7.09(180)
G1	inch(mm)	6.10(155)	6.10(155)	6.10(155)	6.10(155)
G2	inch(mm)	7.32(186)	7.32(186)	7.32(186)	7.32(186)
m1	inch(mm)	4.92(125)	4.92(125)	4.92(125)	4.92(125)
m2	inch(mm)	3.74(95)	3.74(95)	3.74(95)	3.74(95)
n1	inch(mm)	13.58(345)	13.58(345)	13.58(345)	13.58(345)
n2	inch(mm)	11.02(280)	11.02(280)	11.02(280)	11.02(280)
b	inch(mm)	2.56(65)	2.56(65)	2.56(65)	2.56(65)
s	inch(mm)	0.55(14)	0.55(14)	0.55(14)	0.55(14)
D	inch(mm)	8.00(203)	9.00(229)	9.00(229)	10.00(254)
LB	inch(mm)	27.09(688)	27.56(700)	28.54(725)	31.22(793)
AD	inch(mm)	12.05(306)	12.91(328)	12.91(328)	16.30(414)
AG	inch(mm)	10.35(263)	10.35(263)	10.35(263)	12.87(327)
LL	inch(mm)	7.68(195)	7.68(195)	7.68(195)	9.45(240)
BD	inch(mm)	14.00(356)	14.00(356)	14.00(356)	15.51(394)
BA	inch(mm)	5.25(133)	5.87(149)	5.87(149)	6.62(168)
2F	inch(mm)	12.00(305)	11.25(286)	12.25(311)	13.75(349)
2E	inch(mm)	12.50(318)	14.00(356)	14.00(356)	16.00(406)
H	inch(mm)	0.66(17)	0.66(17)	0.66(17)	0.81(21)
Net Weight	lbs(kg)	765(348)	824(375)	938(427)	1363(619)
Gross Weight	lbs(kg)	934(425)	991(451)	1107(504)	1578(717)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	22.70(0.643)	21.96(0.622)	22.70(0.643)	32.62(0.924)

# Performance curves

Single-stage end-suction pumps

## TES 80-2001 2-pole



**2 POLE**

### Performance data at n=3450 rpm

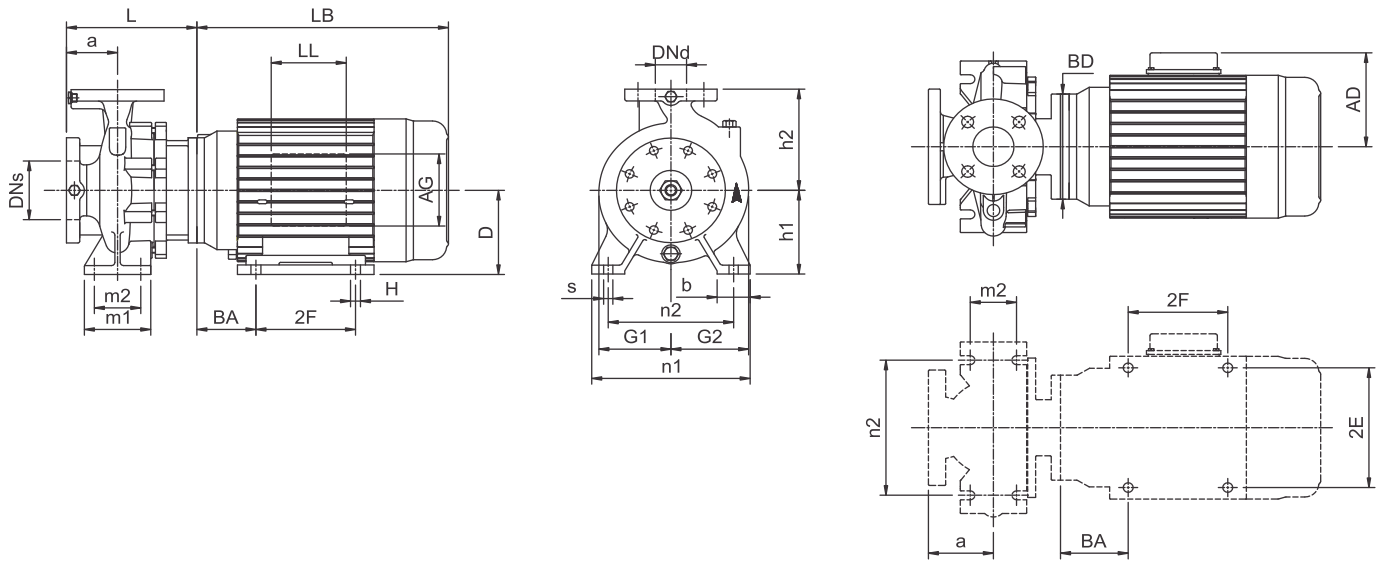
Model	Power		l/min USgpm	568	1136	1703	2271	2839	3407	3975	4543	5110
	HP	kW		150	300	450	600	750	900	1050	1200	1350
TES 80-2001D	50.0	37.0	H ft.	197.6	194.5	189.5	179.4	165.2	146	116.6	-	-
TES 80-2001C	60.0	45.0		217.8	216.8	212.7	204.7	192.5	175.3	149	-	-
TES 80-2001B	75.0	55.0		243.1	242.1	239	233	220.8	204.7	180.4	149	-
TES 80-2001A	100.0	75.0		298.9	298.5	297.8	294.8	288.3	275.4	252.3	221.8	182.1

# Technical data

## Single-stage end-suction pumps

# TES 80-2501 2-pole

2 POLE



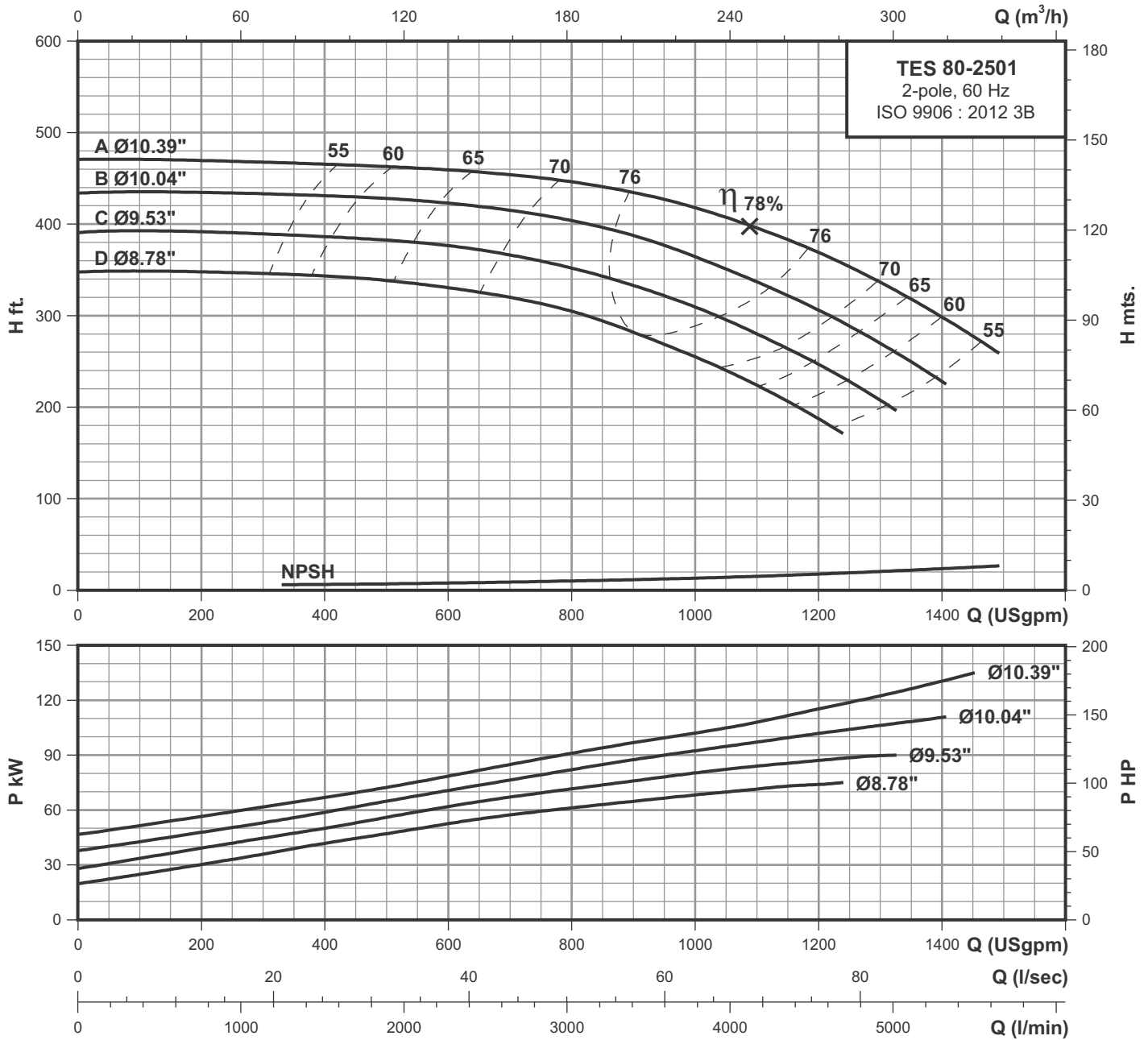
Power	(hp)	100	125	150	200
	(kw)	75	90	110	150
Frame		405TSC	445TSC	445TSC	505TSC
ANSI flange		250	250	250	250
Code for Impeller diameter		D	C	B	A
DNs	inch(mm)	4.00(100)	4.00(100)	4.00(100)	4.00(100)
Dnd	inch(mm)	3.00(80)	3.00(80)	3.00(80)	3.00(80)
a	inch(mm)	4.92(125)	4.92(125)	4.92(125)	4.92(125)
h2	inch(mm)	11.02(280)	11.02(280)	11.02(280)	11.02(280)
L	inch(mm)	17.17(436)	18.43(468)	18.43(468)	20.55(522)
h1	inch(mm)	7.87(200)	7.87(200)	7.87(200)	7.87(200)
G1	inch(mm)	7.01(178)	7.01(178)	7.01(178)	7.01(178)
G2	inch(mm)	8.03(204)	8.03(204)	8.03(204)	8.03(204)
m1	inch(mm)	6.30(160)	6.30(160)	6.30(160)	6.30(160)
m2	inch(mm)	4.72(120)	4.72(120)	4.72(120)	4.72(120)
n1	inch(mm)	15.75(400)	15.75(400)	15.75(400)	15.75(400)
n2	inch(mm)	12.40(315)	12.40(315)	12.40(315)	12.40(315)
b	inch(mm)	3.15(80)	3.15(80)	3.15(80)	3.15(80)
s	inch(mm)	0.71(18)	0.71(18)	0.71(18)	0.71(18)
D	inch(mm)	10.00(254)	11.00(280)	11.00(280)	12.50(318)
LB	inch(mm)	31.22(793)	34.25(870)	34.25(870)	39.88(1013)
AD	inch(mm)	16.30(414)	17.52(445)	17.52(445)	20.28(515)
AG	inch(mm)	12.87(327)	12.87(327)	12.87(327)	15.75(400)
LL	inch(mm)	9.45(240)	9.45(240)	9.45(240)	12.60(320)
BD	inch(mm)	15.51(394)	17.91(455)	17.91(455)	17.91(455)
BA	inch(mm)	6.62(168)	7.50(190)	7.50(190)	8.50(216)
2F	inch(mm)	13.75(349)	16.50(419)	16.50(419)	18.00(457)
2E	inch(mm)	16.00(406)	18.00(457)	18.00(457)	20.00(508)
H	inch(mm)	0.81(21)	0.81(21)	0.81(21)	1.25(32)
Net Weight	lbs(kg)	1387(630)	1594(724)	1761(800)	2302(1046)
Gross Weight	lbs(kg)	1592(723)	1836(834)	2003(910)	2599(1181)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	29.80(0.844)	38.88(1.101)	38.88(1.101)	53.14(1.505)



# Performance curves

Single-stage end-suction pumps

## TES 80-2501 2-pole



2 POLE

### Performance data at n=3450 rpm

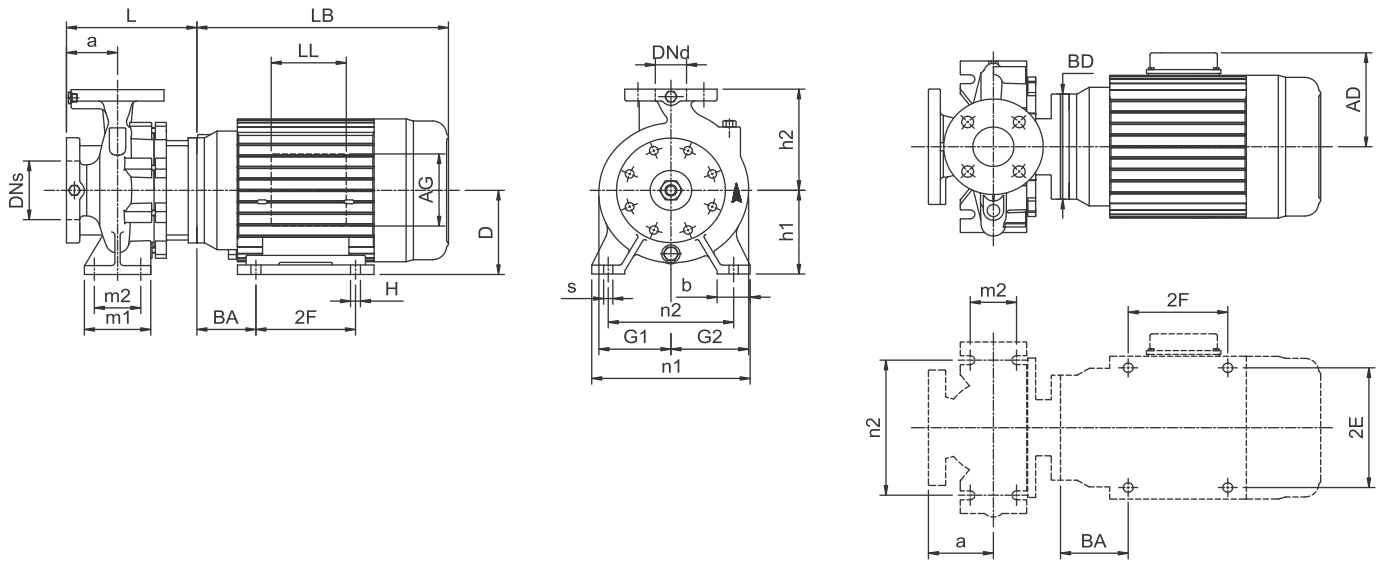
Model	Power		l/min USgpm	757	1514	2271	3028	3785	4543	5300
	HP	kW		200	400	600	800	1000	1200	1400
TES 80-2501D	100.0	75.0	H ft.	347.3	342.7	330.2	305.2	255.2	188	-
TES 80-2501C	125.0	90.0		391	386.5	377	352	309.8	247.4	-
TES 80-2501B	150.0	110.0		434.7	431.7	422.3	404.5	364.5	306.8	227
TES 80-2501A	200.0	150.0		469.2	466	459.7	445.7	419.2	369.2	299

# Technical data

## Single-stage end-suction pumps

# TES 65-250L1 2-pole

2 POLE

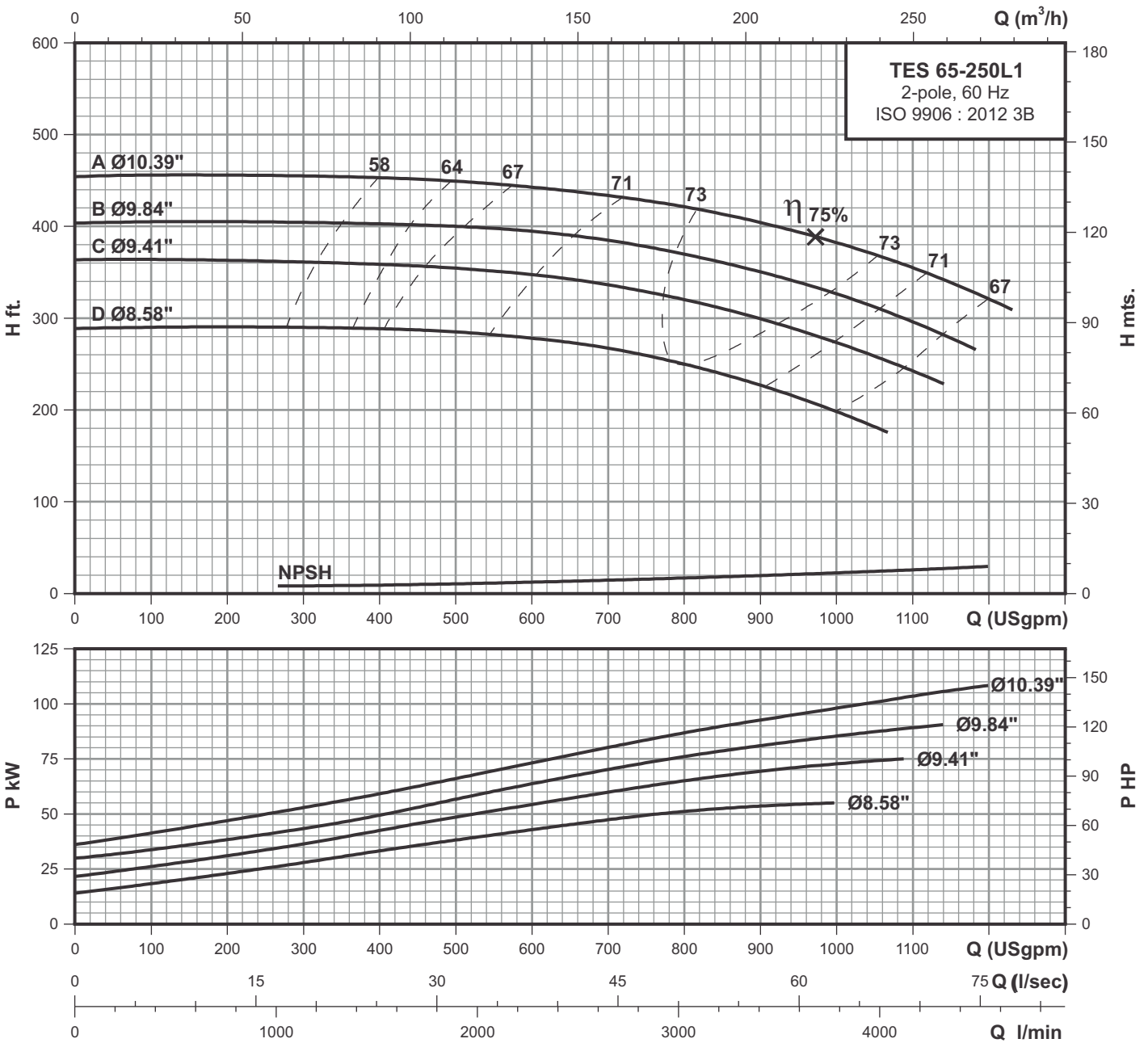


Power	(hp)	75	100	125	150
	(kw)	55	75	90	110
Frame		365JM	405TSC	445TSC	445TSC
ANSI flange		250	250	250	250
Code for Impeller diameter		D	C	B	A
DNs	inch(mm)	4.00(100)	4.00(100)	4.00(100)	4.00(100)
Dnd	inch(mm)	2.50(65)	2.50(65)	2.50(65)	2.50(65)
a	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
h2	inch(mm)	9.84(250)	9.84(250)	9.84(250)	9.84(250)
L	inch(mm)	9.13(232)	16.18(411)	17.44(443)	17.44(443)
h1	inch(mm)	7.87(200)	7.87(200)	7.87(200)	7.87(200)
G1	inch(mm)	6.81(173)	6.81(173)	6.81(173)	6.81(173)
G2	inch(mm)	7.72(196)	7.72(196)	7.72(196)	7.72(196)
m1	inch(mm)	6.30(160)	6.30(160)	6.30(160)	6.30(160)
m2	inch(mm)	4.72(120)	4.72(120)	4.72(120)	4.72(120)
n1	inch(mm)	14.17(360)	14.17(360)	14.17(360)	14.17(360)
n2	inch(mm)	11.02(280)	11.02(280)	11.02(280)	11.02(280)
b	inch(mm)	3.15(80)	3.15(80)	3.15(80)	3.15(80)
s	inch(mm)	0.71(18)	0.71(18)	0.71(18)	0.71(18)
D	inch(mm)	9.00(229)	10.00(254)	11.00(280)	11.00(280)
LB	inch(mm)	28.54(725)	31.22(793)	34.25(870)	34.25(870)
AD	inch(mm)	12.91(328)	16.30(414)	17.52(445)	17.52(445)
AG	inch(mm)	10.35(263)	12.87(327)	12.87(327)	12.87(327)
LL	inch(mm)	7.68(195)	9.45(240)	9.45(240)	9.45(240)
BD	inch(mm)	14.00(356)	15.51(394)	17.91(455)	17.91(455)
BA	inch(mm)	5.87(149)	6.62(168)	7.50(190)	7.50(190)
2F	inch(mm)	12.25(311)	13.75(349)	16.50(419)	16.50(419)
2E	inch(mm)	14.00(356)	16.00(406)	18.00(457)	18.00(457)
H	inch(mm)	0.66(17)	0.81(21)	0.81(21)	0.81(21)
Net Weight	lbs(kg)	953(433)	1375(625)	1582(719)	1749(795)
Gross Weight	lbs(kg)	1122(510)	1580(718)	1824(829)	1991(905)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	22.70(0.643)	29.80(0.844)	38.88(1.101)	38.88(1.101)

# Performance curves

## TES 65-250L1 2-pole

### Single-stage end-suction pumps



### Performance data at n=3450 rpm

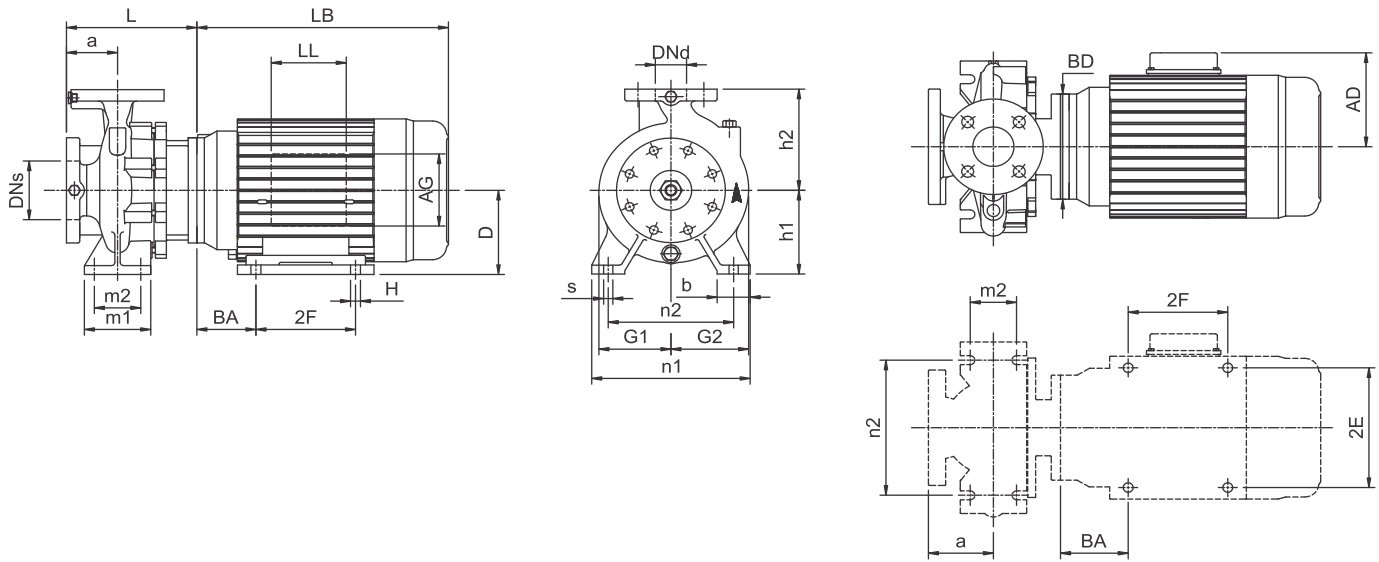
Model	Power		l/min USgpm	757	1136	1514	1893	2271	2650	3028	3407	3785	4164	4543
	HP	kW		200	300	400	500	600	700	800	900	1000	1100	1200
TES 65-250L1D	75.0	55.0	H ft.	290	290	288.7	285	278.7	267.3	249.6	227	199.1	-	-
TES 65-250L1C	100.0	75.0		363.4	361	358.1	354	347.3	336.4	320.3	300	273.1	243.3	-
TES 65-250L1B	125.0	90.0		405.3	404	402.6	399.9	394.5	385.1	370.1	351.3	327	296	-
TES 65-250L1A	150.0	110.0		455.2	455.2	453.7	449	442.1	433.4	421.7	404.3	383.8	356.1	319.7

# Technical data

## Single-stage end-suction pumps

# TES 100-2001 2-pole

2 POLE

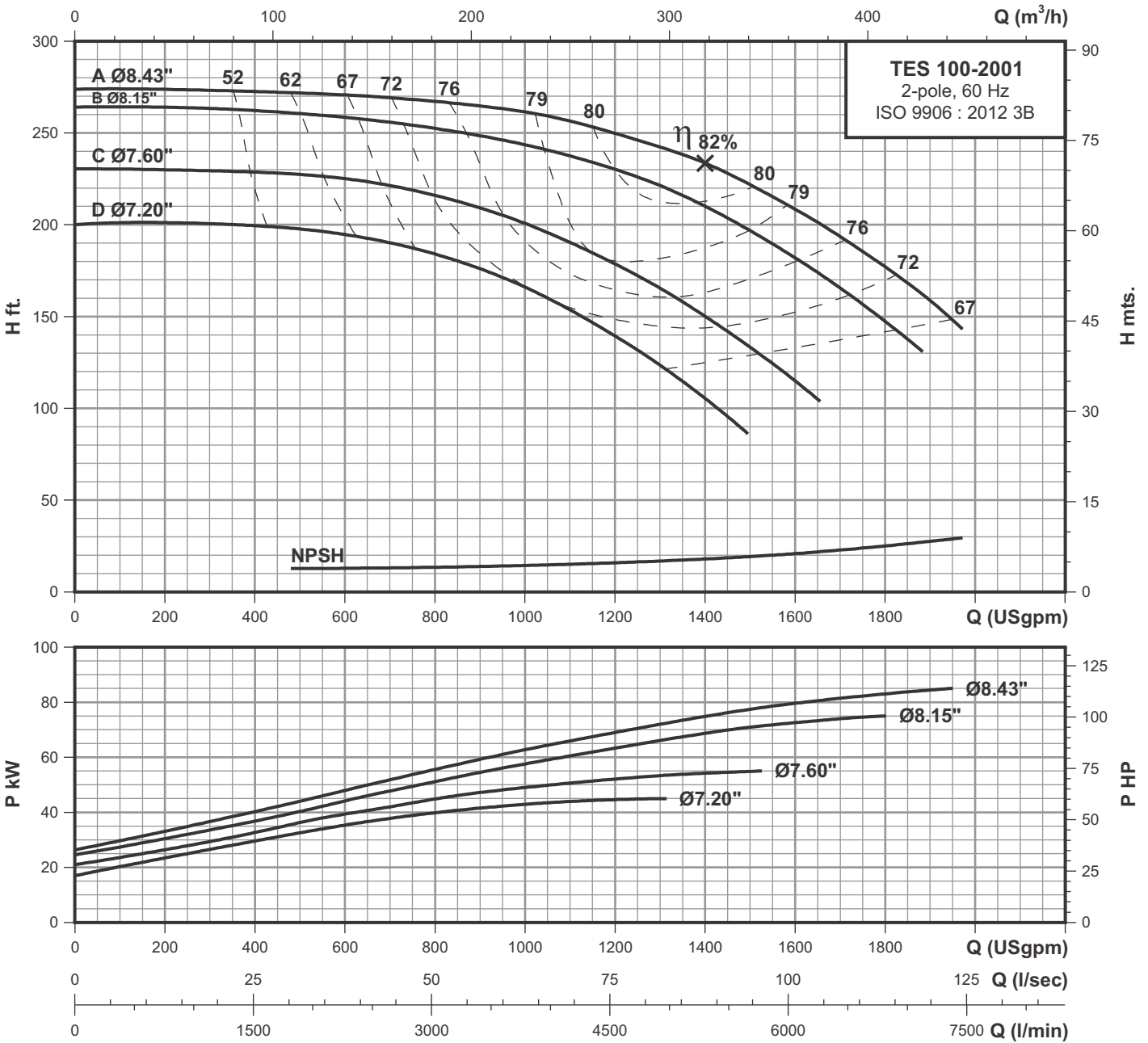


Power	(hp)	60	75	100	125
	(kw)	45	55	75	90
Frame		364JM	365JM	405TSC	445TSC
ANSI flange		125	125	125	125
Code for Impeller diameter		D	C	B	A
DNs	inch(mm)	5.00(125)	5.00(125)	5.00(125)	5.00(125)
Dnd	inch(mm)	4.00(100)	4.00(100)	4.00(100)	4.00(100)
a	inch(mm)	4.92(125)	4.92(125)	4.92(125)	4.92(125)
h2	inch(mm)	11.02(280)	11.02(280)	11.02(280)	11.02(280)
L	inch(mm)	10.08(256)	10.08(256)	17.17(436)	18.43(468)
h1	inch(mm)	7.87(200)	7.87(200)	7.87(200)	7.87(200)
G1	inch(mm)	6.54(166)	6.54(166)	6.54(166)	6.54(166)
G2	inch(mm)	7.95(202)	7.95(202)	7.95(202)	7.95(202)
m1	inch(mm)	6.30(160)	6.30(160)	6.30(160)	6.30(160)
m2	inch(mm)	4.72(120)	4.72(120)	4.72(120)	4.72(120)
n1	inch(mm)	14.17(360)	14.17(360)	14.17(360)	14.17(360)
n2	inch(mm)	11.02(280)	11.02(280)	11.02(280)	11.02(280)
b	inch(mm)	3.15(80)	3.15(80)	3.15(80)	3.15(80)
s	inch(mm)	0.71(18)	0.71(18)	0.71(18)	0.71(18)
D	inch(mm)	9.00(229)	9.00(229)	10.00(254)	11.00(280)
LB	inch(mm)	27.56(700)	28.54(725)	31.22(793)	34.25(870)
AD	inch(mm)	12.91(328)	12.91(328)	16.30(414)	17.52(445)
AG	inch(mm)	10.35(263)	10.35(263)	12.87(327)	12.87(327)
LL	inch(mm)	7.68(195)	7.68(195)	9.45(240)	9.45(240)
BD	inch(mm)	14.00(356)	14.00(356)	15.51(394)	17.91(455)
BA	inch(mm)	5.87(149)	5.87(149)	6.62(168)	7.50(190)
2F	inch(mm)	11.25(286)	12.25(311)	13.75(349)	16.50(419)
2E	inch(mm)	14.00(356)	14.00(356)	16.00(406)	18.00(457)
H	inch(mm)	0.66(17)	0.66(17)	0.81(21)	0.81(21)
Net Weight	lbs(kg)	847(385)	961(437)	1385(630)	1592(724)
Gross Weight	lbs(kg)	1014(461)	1130(514)	1601(728)	1834(834)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	21.96(0.622)	22.70(0.643)	32.62(0.924)	38.88(1.101)

# Performance curves

Single-stage end-suction pumps

# TES 100-2001 2-pole



**2 POLE**

## Performance data at n=3450 rpm

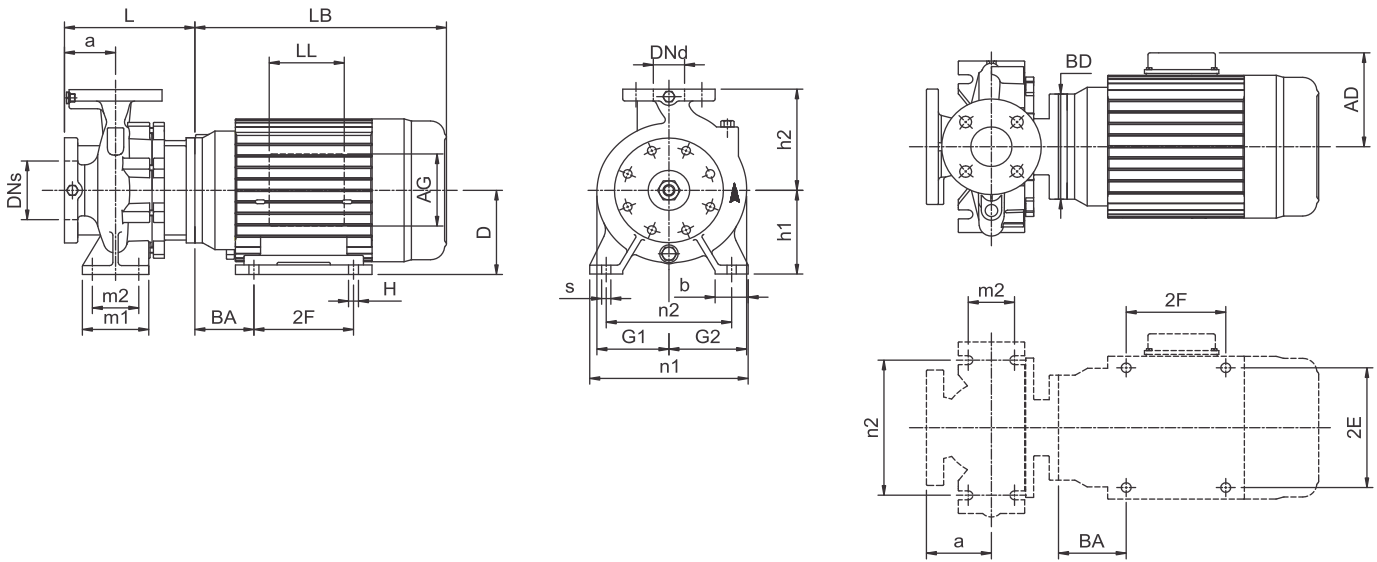
Model	Power		l/min USgpm	757	1514	2271	3028	3785	4543	5300	6057	6814
	HP	kW		200	400	600	800	1000	1200	1400	1600	1800
TES 100-2001D	60.0	45.0	H ft.	200.7	199.8	194.2	184.1	165.8	140.2	105.4	-	-
TES 100-2001C	75.0	55.0		230	228.8	225.4	216.1	201	179.1	150	114.7	-
TES 100-2001B	100.0	75.0		264.1	262.2	258.2	252.2	243.7	229.9	210.1	182.5	147.6
TES 100-2001A	125.0	90.0		274	272.7	270.7	267.4	261.5	250.3	233.1	208.8	177.2

# Technical data

## Single-stage end-suction pumps

# TES 100-2501 2-pole

2 POLE



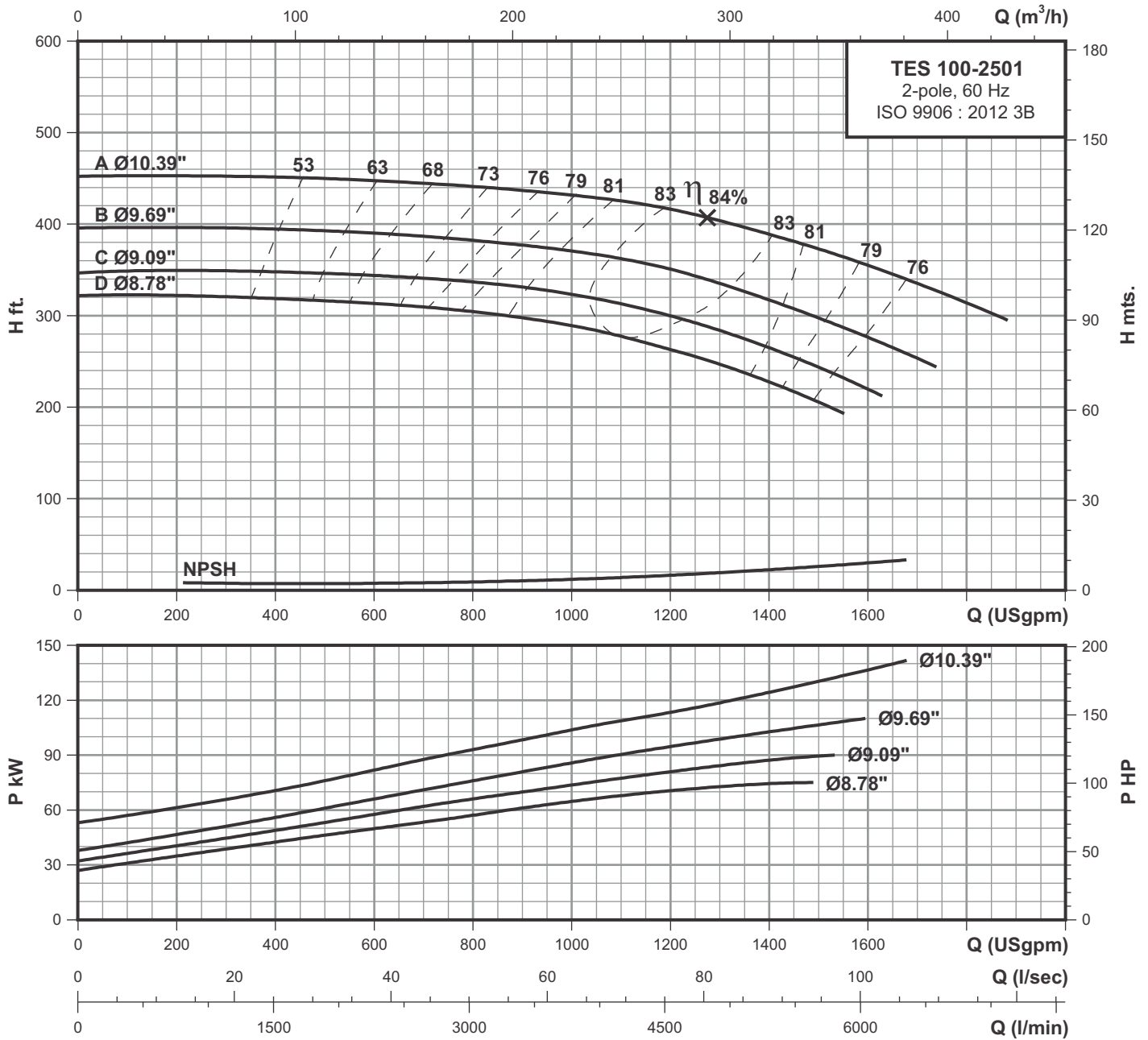
Power	(hp)	100	125	150	200
	(kw)	75	90	110	150
Frame		405TSC	445TSC	445TSC	505TSC
ANSI flange		250	250	250	250
Code for Impeller diameter		D	C	B	A
DNs	inch(mm)	5.00(125)	5.00(125)	5.00(125)	5.00(125)
Dnd	inch(mm)	4.00(100)	4.00(100)	4.00(100)	4.00(100)
a	inch(mm)	5.51(140)	5.51(140)	5.51(140)	5.51(140)
h2	inch(mm)	11.02(280)	11.02(280)	11.02(280)	11.02(280)
L	inch(mm)	17.76(451)	19.02(483)	19.02(483)	21.14(537)
h1	inch(mm)	8.86(225)	8.86(225)	8.86(225)	8.86(225)
G1	inch(mm)	7.24(184)	7.24(184)	7.24(184)	7.24(184)
G2	inch(mm)	8.43(214)	8.43(214)	8.43(214)	8.43(214)
m1	inch(mm)	6.30(160)	6.30(160)	6.30(160)	6.30(160)
m2	inch(mm)	4.72(120)	4.72(120)	4.72(120)	4.72(120)
n1	inch(mm)	15.75(400)	15.75(400)	15.75(400)	15.75(400)
n2	inch(mm)	12.40(315)	12.40(315)	12.40(315)	12.40(315)
b	inch(mm)	3.15(80)	3.15(80)	3.15(80)	3.15(80)
s	inch(mm)	0.71(18)	0.71(18)	0.71(18)	0.71(18)
D	inch(mm)	10.00(254)	11.00(280)	11.00(280)	12.50(318)
LB	inch(mm)	31.22(793)	34.25(870)	34.25(870)	39.88(1013)
AD	inch(mm)	16.30(414)	17.52(445)	17.52(445)	20.28(515)
AG	inch(mm)	12.87(327)	12.87(327)	12.87(327)	15.75(400)
LL	inch(mm)	9.45(240)	9.45(240)	9.45(240)	12.60(320)
BD	inch(mm)	15.51(394)	17.91(455)	17.91(455)	17.91(455)
BA	inch(mm)	6.62(168)	7.50(190)	7.50(190)	8.50(216)
2F	inch(mm)	13.75(349)	16.50(419)	16.50(419)	18.00(457)
2E	inch(mm)	16.00(406)	18.00(457)	18.00(457)	20.00(508)
H	inch(mm)	0.81(21)	0.81(21)	0.81(21)	1.25(32)
Net Weight	lbs(kg)	1409(640)	1616(734)	1783(810)	2324(1056)
Gross Weight	lbs(kg)	1614(733)	1858(844)	2025(920)	2621(1191)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	29.80(0.844)	38.88(1.101)	38.88(1.101)	53.14(1.505)

# Performance curves

Single-stage end-suction pumps

# TES 100-2501 2-pole

2 POLE



## Performance data at n=3450 rpm

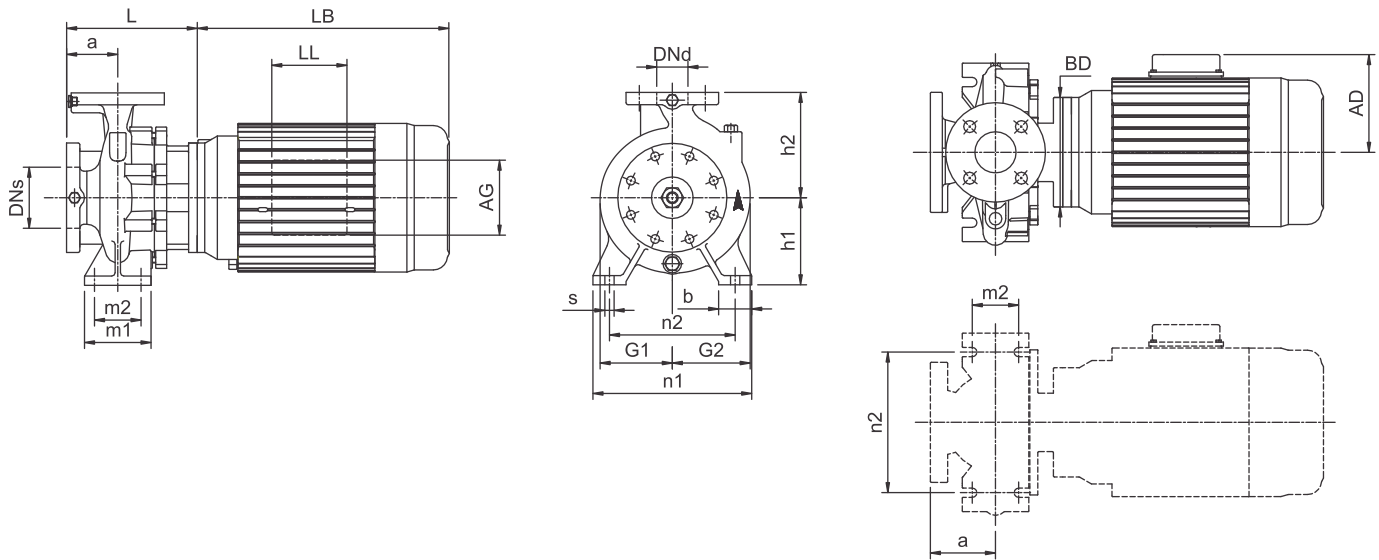
Model	Power		l/min USgpm	757	1514	2271	3028	3785	4543	5300	6057	6814
	HP	kW		200	400	600	800	1000	1200	1400	1600	1800
TES 100-2501D	100.0	75.0	H ft.	322.3	318.6	312.7	304.3	288.8	263.8	228	-	-
TES 100-2501C	125.0	90.0		349.6	348.3	343.3	337.1	323.2	299.4	265.6	220	-
TES 100-2501B	150.0	110.0		396.7	394	390	382	370	351.1	317.7	276.3	-
TES 100-2501A	200.0	150.0		452.7	451.4	447.4	440.7	431.4	416.6	388.6	355.1	315

# Technical data

## Single-stage end-suction pumps

# TES 32-1603

# 4-pole



Power	(hp)	1	1.5	2
	(kw)	0.75	1.1	1.5
Frame		143JM	145JM	145JM
ANSI flange		125	125	125
Code for Impeller diameter		C	B	A
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)	6.85(174)	6.85(174)	6.85(174)
h1	inch(mm)	5.20(132)	5.20(132)	5.20(132)
G1	inch(mm)	4.41(112)	4.41(112)	4.41(112)
G2	inch(mm)	4.88(124)	4.88(124)	4.88(124)
m1	inch(mm)	3.94(100)	3.94(100)	3.94(100)
m2	inch(mm)	2.76(70)	2.76(70)	2.76(70)
n1	inch(mm)	9.45(240)	9.45(240)	9.45(240)
n2	inch(mm)	7.48(190)	7.48(190)	7.48(190)
b	inch(mm)	1.97(50)	1.97(50)	1.97(50)
s	inch(mm)	0.55(14)	0.55(14)	0.55(14)
D	inch(mm)	-	-	-
LB	inch(mm)	10.35(263)	11.34(288)	11.34(288)
AD	inch(mm)	4.92(125)	4.92(125)	4.92(125)
AG	inch(mm)	3.98(101)	3.98(101)	3.98(101)
LL	inch(mm)	3.39(86)	3.39(86)	3.39(86)
BD	inch(mm)	6.50(165)	6.50(165)	6.50(165)
BA	inch(mm)	-	-	-
2F	inch(mm)	-	-	-
2E	inch(mm)	-	-	-
H	inch(mm)	-	-	-
Net Weight	lbs(kg)	98(45)	100(46)	105(48)
Gross Weight	lbs(kg)	116(53)	122(56)	127(58)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	2.90(0.082)	3.67(0.104)	3.67(0.104)

4 POLE

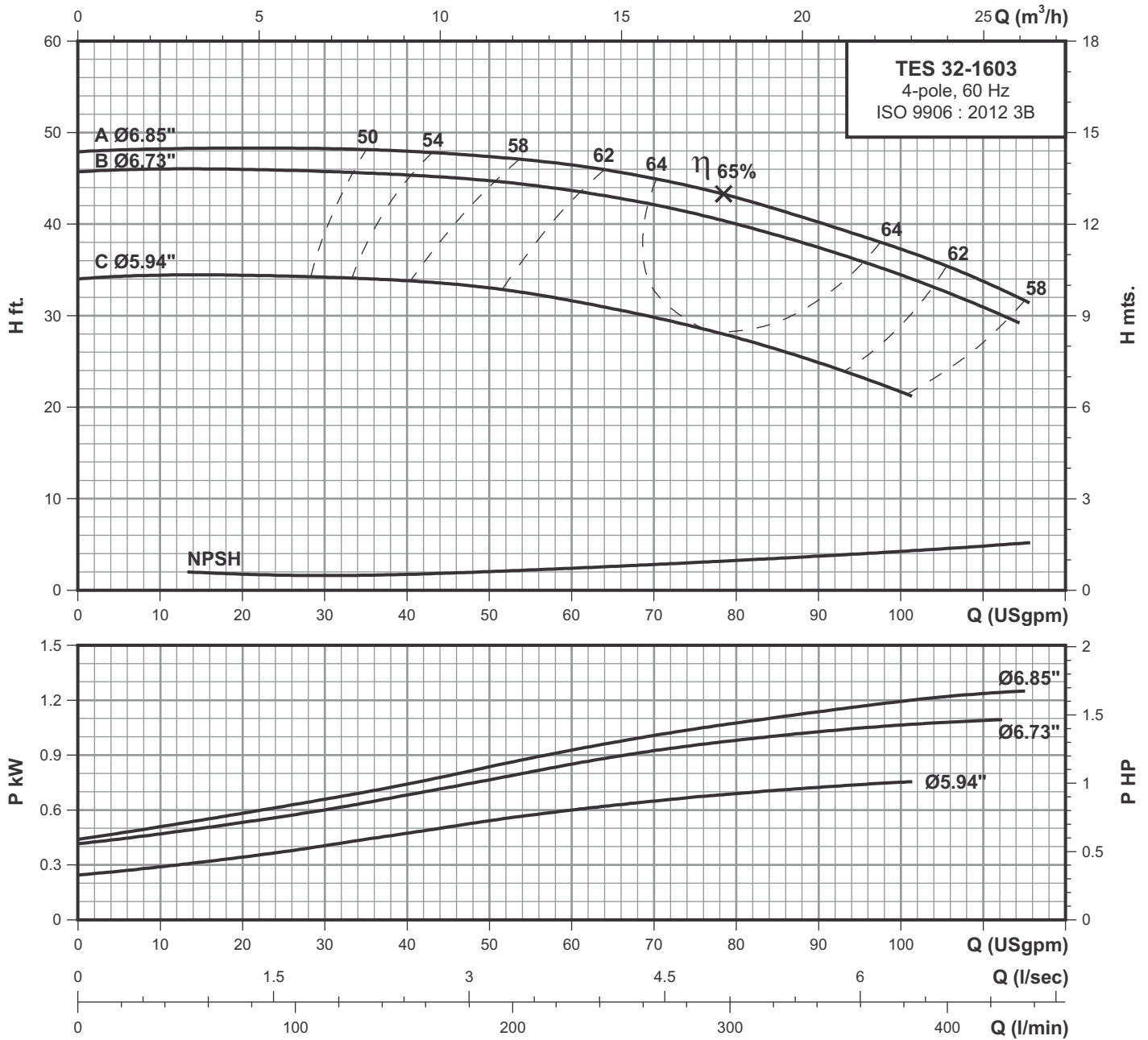


# Performance curves

Single-stage end-suction pumps

## TES 32-1603

### 4-pole



### Performance data at n=1750 rpm

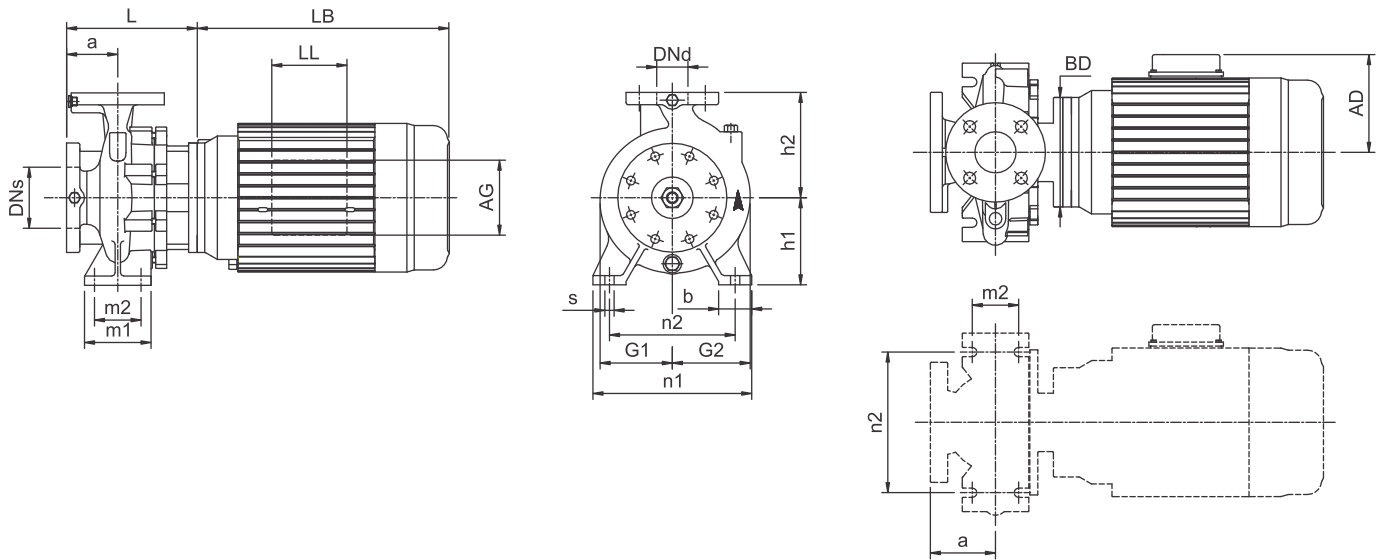
Model	Power		l/min USgpm	76	114	151	189	227	265	303	341	379	416
	HP	kW		20	30	40	50	60	70	80	90	100	110
TES 32-1603C	1.00	0.75	H ft.	34.4	34.1	33.7	33	31.5	30	27.7	25	21.6	-
TES 32-1603B	1.50	1.10		46	45.7	45.3	44.7	43.7	42.1	40	37.5	34.5	30.9
TES 32-1603A	2.00	1.50		48.3	48.2	47.9	47.3	46.4	44.9	42.9	40.3	37.2	33.7

# Technical data

## Single-stage end-suction pumps

# TES 32-2003

# 4-pole



Power	(hp)	1	1.5	2
	(kw)	0.75	1.1	1.5
Frame		143JM	145JM	145JM
ANSI flange		125	125	125
Code for Impeller diameter		C	B	A
DN <sub>s</sub>	inch(mm)	2.00(50)	2.00(50)	2.00(50)
DN <sub>d</sub>	inch(mm)	1.25(32)	1.25(32)	1.25(32)
a	inch(mm)	3.15(80)	3.15(80)	3.15(80)
h <sub>2</sub>	inch(mm)	7.09(180)	7.09(180)	7.09(180)
L	inch(mm)	6.85(174)	6.85(174)	6.85(174)
h <sub>1</sub>	inch(mm)	6.30(160)	6.30(160)	6.30(160)
G <sub>1</sub>	inch(mm)	4.96(126)	4.96(126)	4.96(126)
G <sub>2</sub>	inch(mm)	5.24(133)	5.24(133)	5.24(133)
m <sub>1</sub>	inch(mm)	3.94(100)	3.94(100)	3.94(100)
m <sub>2</sub>	inch(mm)	2.76(70)	2.76(70)	2.76(70)
n <sub>1</sub>	inch(mm)	9.45(240)	9.45(240)	9.45(240)
n <sub>2</sub>	inch(mm)	7.48(190)	7.48(190)	7.48(190)
b	inch(mm)	1.97(50)	1.97(50)	1.97(50)
s	inch(mm)	0.55(14)	0.55(14)	0.55(14)
D	inch(mm)	-	-	-
LB	inch(mm)	10.35(263)	11.34(288)	11.34(288)
AD	inch(mm)	4.92(125)	4.92(125)	4.92(125)
AG	inch(mm)	3.98(101)	3.98(101)	3.98(101)
LL	inch(mm)	3.39(86)	3.39(86)	3.39(86)
BD	inch(mm)	6.50(165)	6.50(165)	6.50(165)
BA	inch(mm)	-	-	-
2F	inch(mm)	-	-	-
2E	inch(mm)	-	-	-
H	inch(mm)	-	-	-
Net Weight	lbs(kg)	106(48)	109(50)	114(52)
Gross Weight	lbs(kg)	124(56)	131(60)	136(62)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	2.90(0.082)	3.67(0.104)	3.67(0.104)

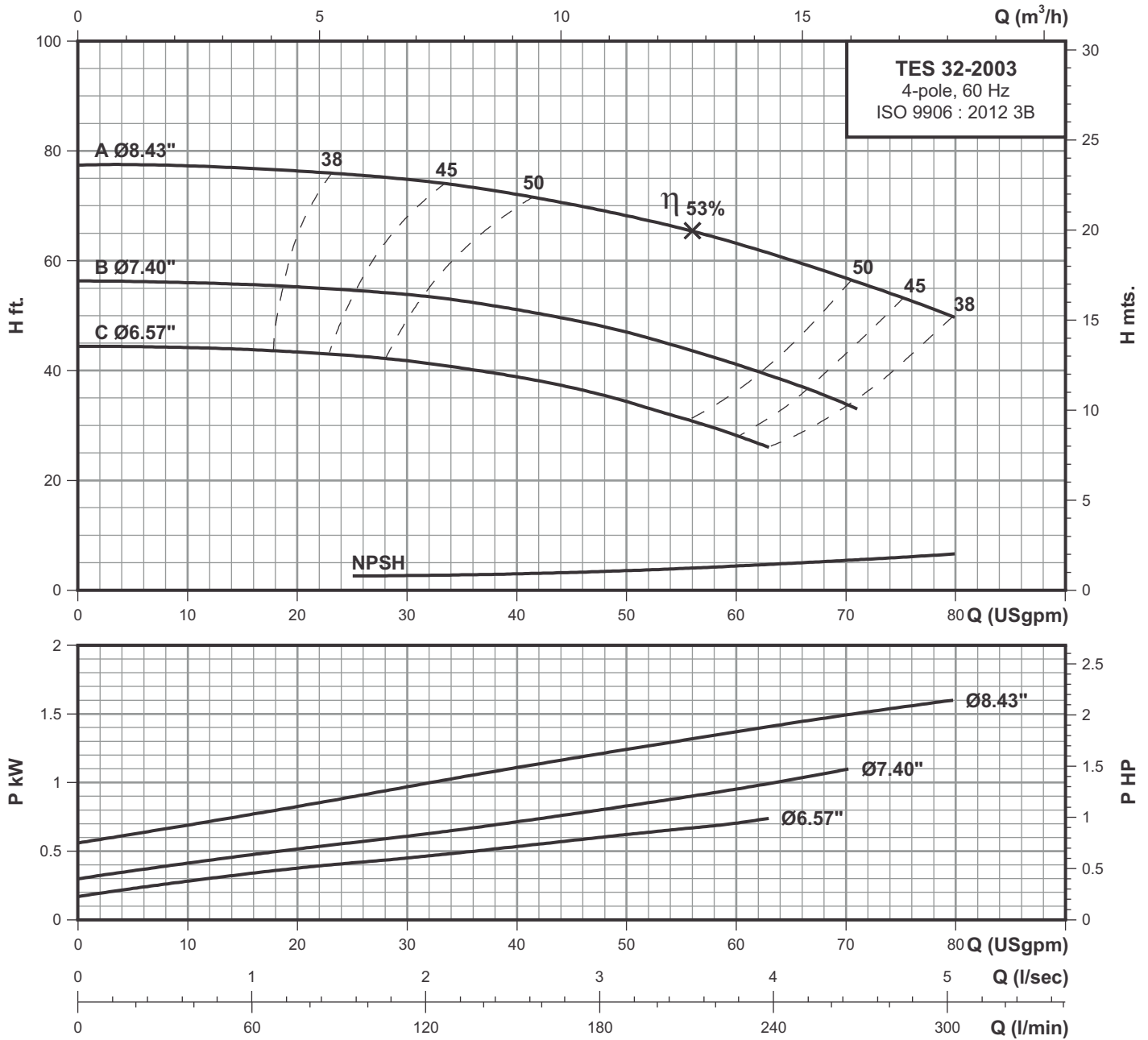
4 POLE

# Performance curves

Single-stage end-suction pumps

TES 32-2003

4-pole



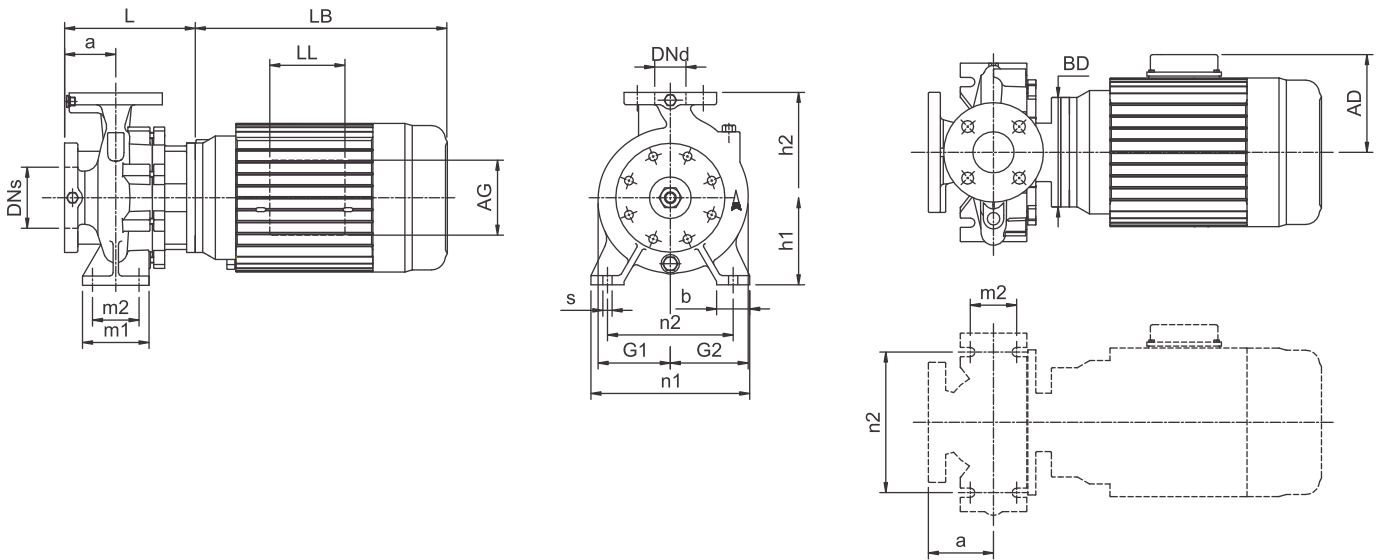
## Performance data at n=1750 rpm

Model	Power		l/min USgpm	38	76	114	151	189	227	265	303
	HP	kW		10	20	30	40	50	60	70	80
TES 32-2003C	1.00	0.75	H ft.	44.1	43.2	41.8	38.8	34.4	28.2	-	-
TES 32-2003B	1.50	1.10		56	55.2	53.8	51.1	46.9	41.1	33.8	-
TES 32-2003A	2.00	1.50		77.2	76.3	74.9	72.1	68.2	63.3	56.9	49.7

# Technical data

## Single-stage end-suction pumps

# TES 32-200L3 4-pole



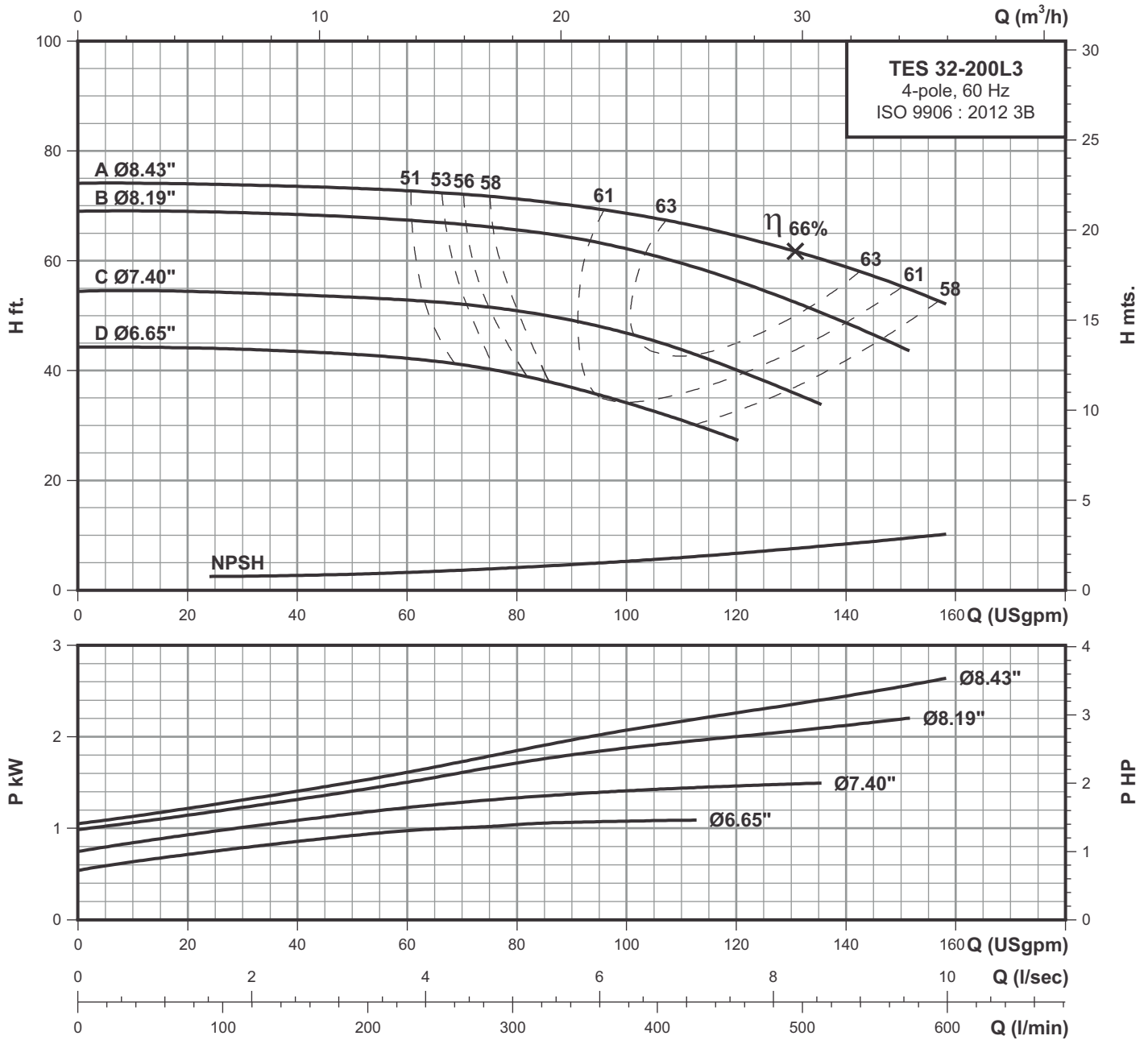
Power	(hp)	1.5	2	3	4
	(kw)	1.1	1.5	2.2	3
Frame		145JM	145JM	182JM	184JM
ANSI flange		125	125	125	125
Code for Impeller diameter		D	C	B	A
DN1	inch(mm)	2.00(50)	2.00(50)	2.00(50)	2.00(50)
DNd	inch(mm)	1.25(32)	1.25(32)	1.25(32)	1.25(32)
a	inch(mm)	3.15(80)	3.15(80)	3.15(80)	3.15(80)
h2	inch(mm)	7.09(180)	7.09(180)	7.09(180)	7.09(180)
L	inch(mm)	6.85(174)	6.85(174)	6.85(174)	6.85(174)
h1	inch(mm)	6.30(160)	6.30(160)	6.30(160)	6.30(160)
G1	inch(mm)	5.31(135)	5.31(135)	5.31(135)	5.31(135)
G2	inch(mm)	5.79(147)	5.79(147)	5.79(147)	5.79(147)
m1	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
m2	inch(mm)	2.76(70)	2.76(70)	2.76(70)	2.76(70)
n1	inch(mm)	9.45(240)	9.45(240)	9.45(240)	9.45(240)
n2	inch(mm)	7.48(190)	7.48(190)	7.48(190)	7.48(190)
b	inch(mm)	1.97(50)	1.97(50)	1.97(50)	1.97(50)
s	inch(mm)	0.55(14)	0.55(14)	0.55(14)	0.55(14)
D	inch(mm)	-	-	-	-
LB	inch(mm)	11.34(288)	11.34(288)	13.31(338)	13.31(338)
AD	inch(mm)	4.92(125)	4.92(125)	6.46(164)	6.46(164)
AG	inch(mm)	3.98(101)	3.98(101)	3.98(101)	3.98(101)
LL	inch(mm)	3.39(86)	3.39(86)	3.98(101)	3.98(101)
BD	inch(mm)	6.50(165)	6.50(165)	6.50(165)	6.50(165)
BA	inch(mm)	-	-	-	-
2F	inch(mm)	-	-	-	-
2E	inch(mm)	-	-	-	-
H	inch(mm)	-	-	-	-
Net Weight	lbs(kg)	106(48)	110(50)	141(64)	146(66)
Gross Weight	lbs(kg)	128(58)	132(60)	163(74)	168(76)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	3.67(0.104)	3.67(0.104)	3.67(0.104)	3.67(0.104)

4 POLE

# Performance curves

Single-stage end-suction pumps

## TES 32-200L3 4-pole



**4 POLE**

### Performance data at n=1750 rpm

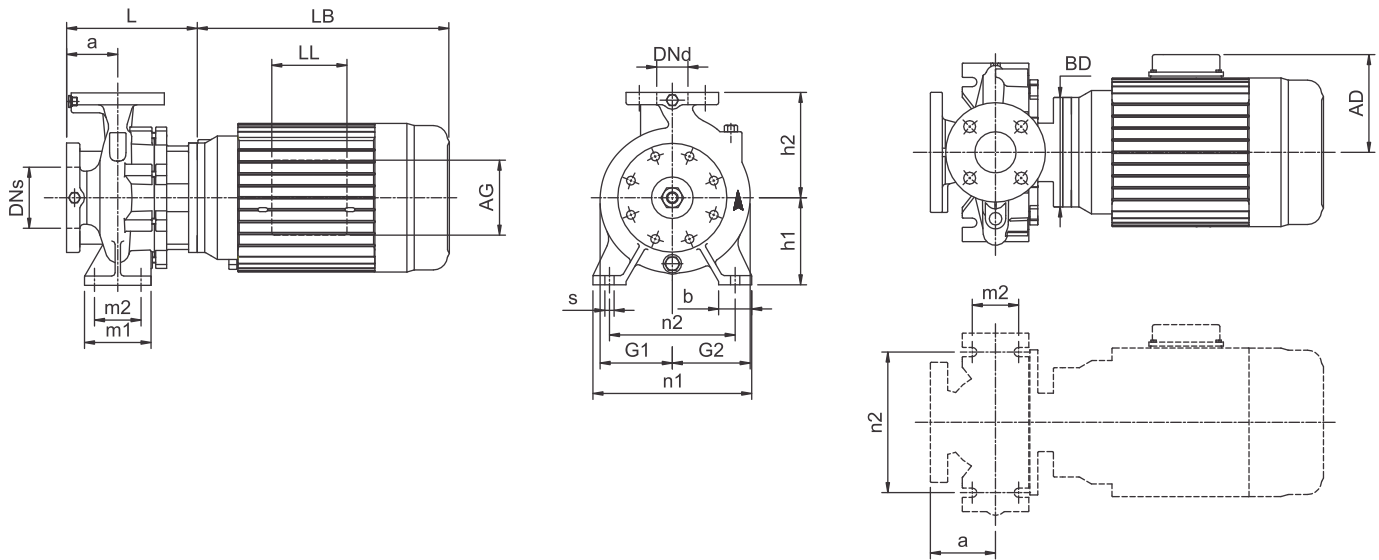
Model	Power		l/min USgpm	76	151	227	303	379	454	530
	HP	kW		20	40	60	80	100	120	140
TES 32-200L3D	1.50	1.10	H ft.	44	43.5	42.3	39.3	34.2	27.5	-
TES 32-200L3C	2.00	1.50		54.3	53.8	52.8	50.9	46.9	40	-
LES 32-200L3B	3.00	2.20		69	68.3	67.3	65.6	62.1	56.5	48.9
LES 32-200L3A	4.00	3.00		73.9	73.4	72.7	71.2	68.8	64.6	58.7

# Technical data

## Single-stage end-suction pumps

# TES 32-2503

# 4-pole



	(hp)	3	4	5
Power	(kw)	2.2	3	3.7
Frame		182JM	184JM	184JM
ANSI flange		125	125	125
Code for Impeller diameter		C	B	A
DN <sub>s</sub>	inch(mm)	2.00(50)	2.00(50)	2.00(50)
DN <sub>d</sub>	inch(mm)	1.25(32)	1.25(32)	1.25(32)
a	inch(mm)	3.94(100)	3.94(100)	3.94(100)
h <sub>2</sub>	inch(mm)	8.86(225)	8.86(225)	8.86(225)
L	inch(mm)	8.03(204)	8.03(204)	8.03(204)
h <sub>1</sub>	inch(mm)	7.09(180)	7.09(180)	7.09(180)
G <sub>1</sub>	inch(mm)	5.91(150)	5.91(150)	5.91(150)
G <sub>2</sub>	inch(mm)	6.06(154)	6.06(154)	6.06(154)
m <sub>1</sub>	inch(mm)	4.92(125)	4.92(125)	4.92(125)
m <sub>2</sub>	inch(mm)	3.74(95)	3.74(95)	3.74(95)
n <sub>1</sub>	inch(mm)	12.60(320)	12.60(320)	12.60(320)
n <sub>2</sub>	inch(mm)	9.84(250)	9.84(250)	9.84(250)
b	inch(mm)	2.56(65)	2.56(65)	2.56(65)
s	inch(mm)	0.55(14)	0.55(14)	0.55(14)
D	inch(mm)	-	-	-
LB	inch(mm)	13.31(338)	13.31(338)	13.31(338)
AD	inch(mm)	6.46(164)	6.46(164)	6.46(164)
AG	inch(mm)	3.98(101)	3.98(101)	3.98(101)
LL	inch(mm)	3.98(101)	3.98(101)	3.98(101)
BD	inch(mm)	6.50(165)	6.50(165)	6.50(165)
BA	inch(mm)	-	-	-
2F	inch(mm)	-	-	-
2E	inch(mm)	-	-	-
H	inch(mm)	-	-	-
Net Weight	lbs(kg)	168(76)	172(78)	177(80)
Gross Weight	lbs(kg)	190(86)	194(88)	199(90)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	5.51(0.156)	7.93(0.225)	7.93(0.225)

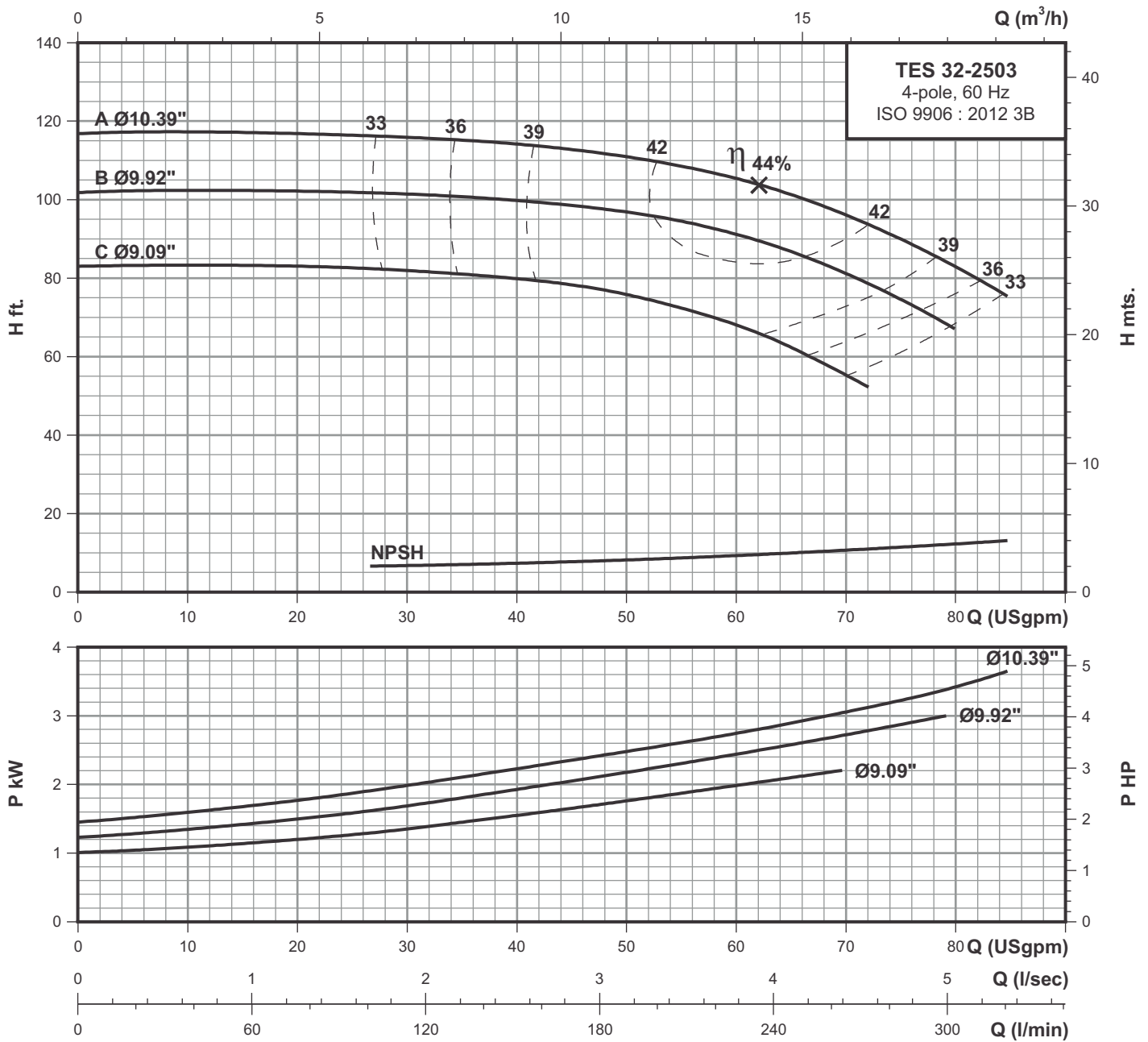
4 POLE

# Performance curves

Single-stage end-suction pumps

## TES 32-2503

### 4-pole



**4 POLE**

### Performance data at n=1750 rpm

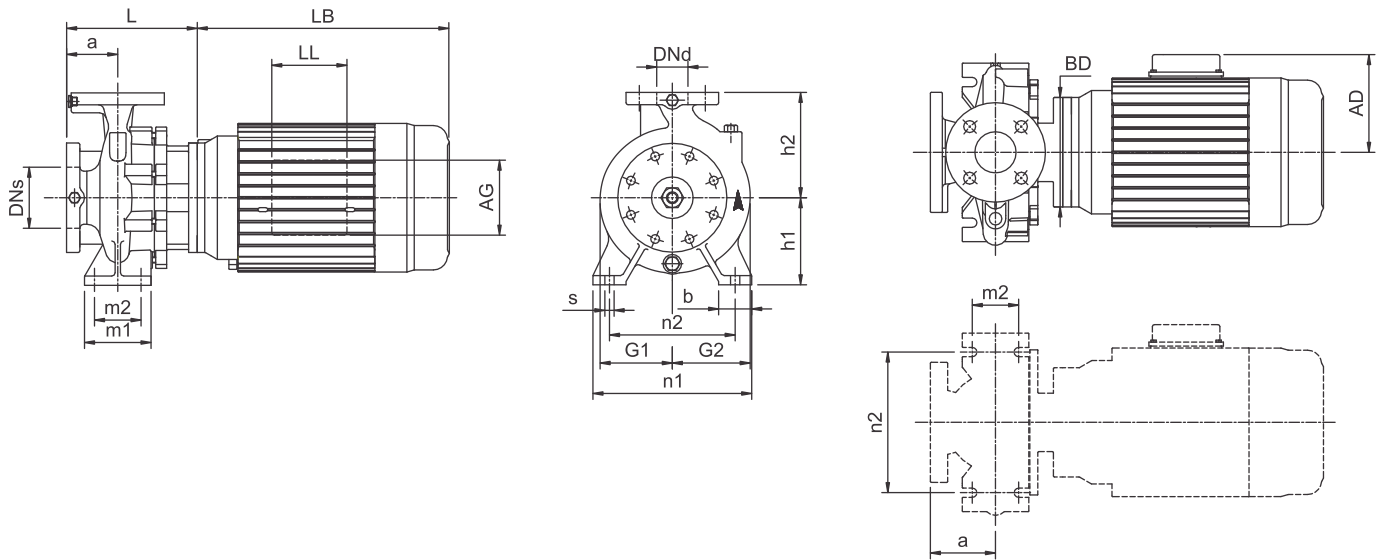
Model	Power		l/min USgpm	38	76	114	151	189	227	265	303
	HP	kW		10	20	30	40	50	60	70	80
TES 32-2503C	3.00	2.20	H ft.	83.2	82.8	81.7	79.8	75.7	68.1	55.6	-
TES 32-2503B	4.00	3.00		102.5	102.1	101.4	99.8	96.8	91.2	81	67
TES 32-2503A	5.00	3.70		117.2	116.9	115.7	114.2	110.8	105.5	96.1	82.8

# Technical data

## Single-stage end-suction pumps

# TES 40-1253

## 4-pole



Power	(hp)	1
	(kw)	0.75
Frame		143JM
ANSI flange		125
Code for Impeller diameter		A
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)	6.85(174)
h1	inch(mm)	4.41(112)
G1	inch(mm)	3.82(97)
G2	inch(mm)	4.37(111)
m1	inch(mm)	3.94(100)
m2	inch(mm)	2.76(70)
n1	inch(mm)	8.27(210)
n2	inch(mm)	6.30(160)
b	inch(mm)	1.97(50)
s	inch(mm)	0.55(14)
D	inch(mm)	-
LB	inch(mm)	10.35(263)
AD	inch(mm)	4.92(125)
AG	inch(mm)	3.98(101)
LL	inch(mm)	3.39(86)
BD	inch(mm)	6.50(165)
BA	inch(mm)	-
2F	inch(mm)	-
2E	inch(mm)	-
H	inch(mm)	-
Net Weight	lbs(kg)	95(43)
Gross Weight	lbs(kg)	113(51)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	2.90(0.082)

4 POLE

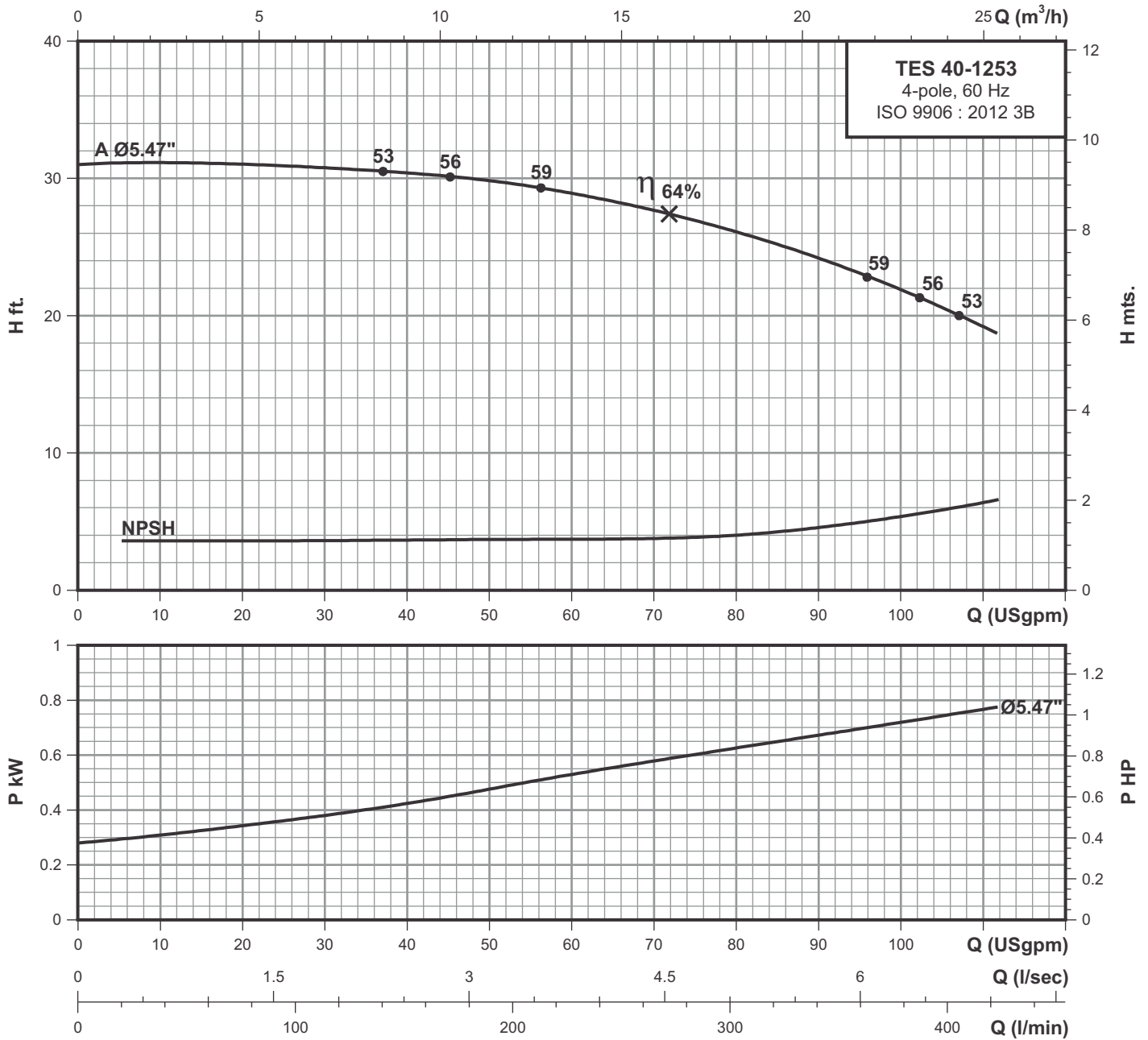


# Performance curves

Single-stage end-suction pumps

## TES 40-1253

### 4-pole



**4 POLE**

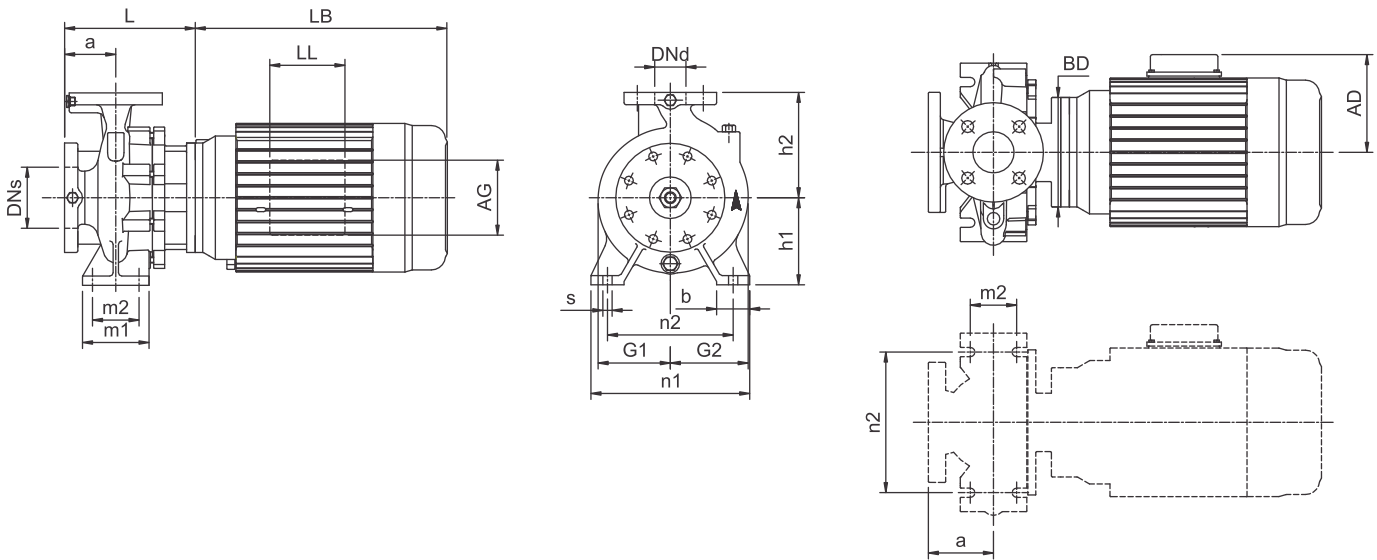
### Performance data at n=1750 rpm

Model	Power		l/min USgpm	38	76	114	151	189	227	265	303	341	379	416
	HP	kW		10	20	30	40	50	60	70	80	90	100	110
TES 40-1253A	1.00	0.75	H ft.	31.1	31	30.7	30.4	29.8	28.8	27.7	26.1	24.2	21.9	19.2

# Technical data

## Single-stage end-suction pumps

# TES 40-125L3 4-pole



Power	(hp)	1
	(kw)	0.75
Frame		143JM
ANSI flange		125
Code for Impeller diameter		A
DN <sub>s</sub>	inch(mm)	2.50(65)
Dn <sub>d</sub>	inch(mm)	1.50(40)
a	inch(mm)	3.15(80)
h <sub>2</sub>	inch(mm)	5.51(140)
L	inch(mm)	6.85(174)
h <sub>1</sub>	inch(mm)	4.41(112)
G <sub>1</sub>	inch(mm)	3.82(97)
G <sub>2</sub>	inch(mm)	4.37(111)
m <sub>1</sub>	inch(mm)	3.94(100)
m <sub>2</sub>	inch(mm)	2.76(70)
n <sub>1</sub>	inch(mm)	8.27(210)
n <sub>2</sub>	inch(mm)	6.30(160)
b	inch(mm)	1.97(50)
s	inch(mm)	0.55(14)
D	inch(mm)	-
LB	inch(mm)	10.35(263)
AD	inch(mm)	4.92(125)
AG	inch(mm)	3.98(101)
LL	inch(mm)	3.39(86)
BD	inch(mm)	6.50(165)
BA	inch(mm)	-
2F	inch(mm)	-
2E	inch(mm)	-
H	inch(mm)	-
Net Weight	lbs(kg)	96(44)
Gross Weight	lbs(kg)	113(52)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	2.90(0.082)

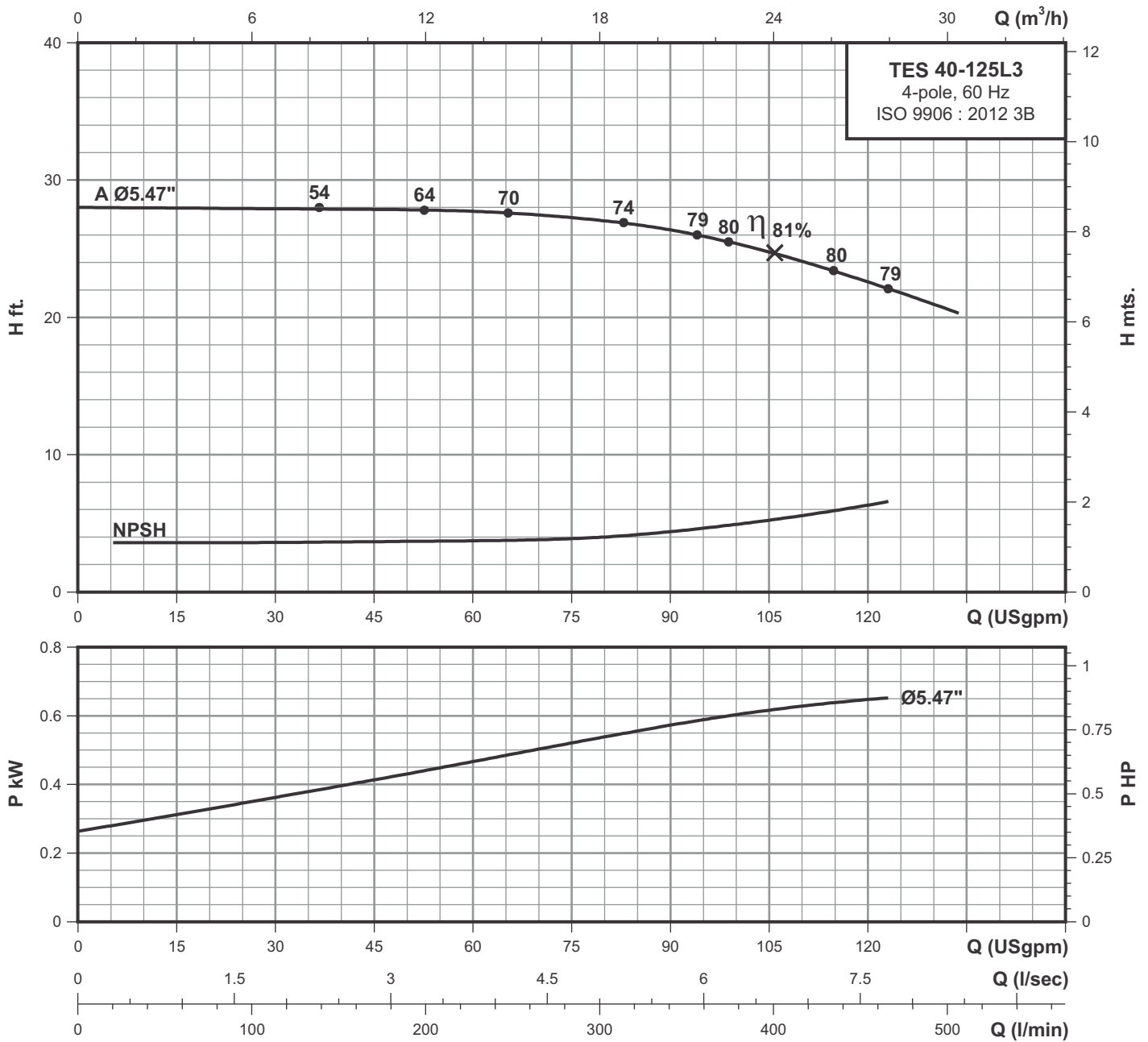
4 POLE

# Performance curves

Single-stage end-suction pumps

## TES 40-125L3

### 4-pole



**4 POLE**

### Performance data at n=1750 rpm

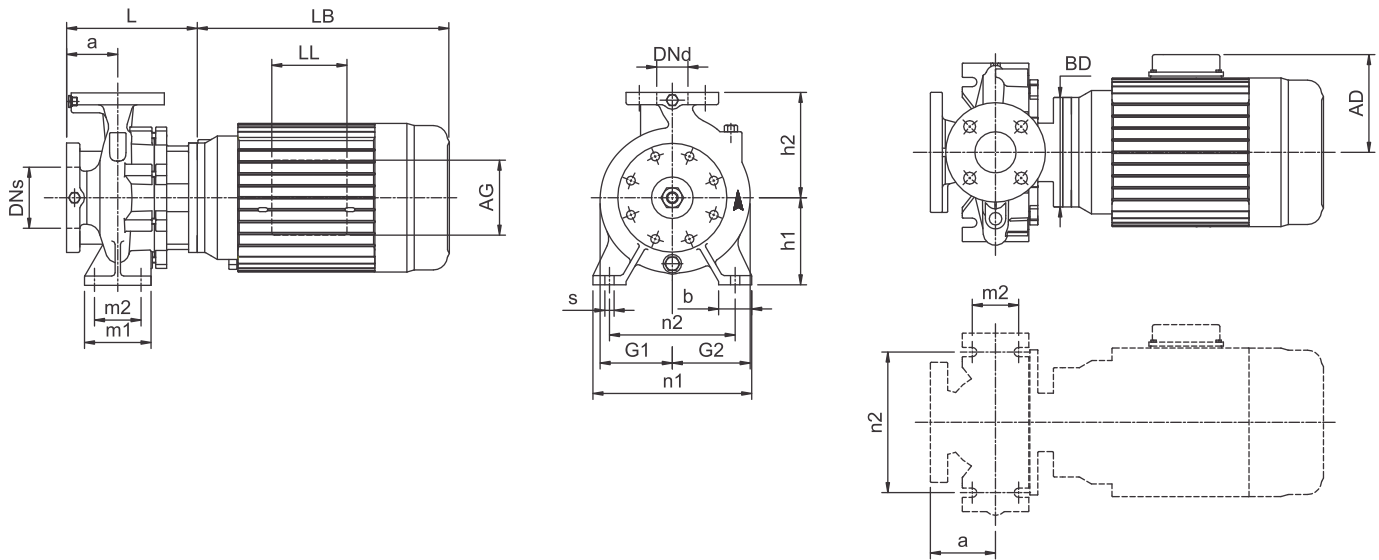
Model	Power		l/min USgpm	57	114	170	227	284	341	398	454	492
	HP	kW		15	30	45	60	75	90	105	120	130
TES 40-125L3A	1.00	0.75	H ft.	28	28	27.8	27.7	27.3	26.3	24.8	22.6	21

# Technical data

## Single-stage end-suction pumps

# TES 40-1603

## 4-pole



Power	(hp)	1	1.5	2
	(kw)	0.75	1.1	1.5
Frame		143JM	145JM	145JM
ANSI flange		125	125	125
Code for Impeller diameter		C	B	A
DN <sub>s</sub>	inch(mm)	2.50(65)	2.50(65)	2.50(65)
DN <sub>d</sub>	inch(mm)	1.50(40)	1.50(40)	1.50(40)
a	inch(mm)	3.15(80)	3.15(80)	3.15(80)
h <sub>2</sub>	inch(mm)	6.30(160)	6.30(160)	6.30(160)
L	inch(mm)	6.85(174)	6.85(174)	6.85(174)
h <sub>1</sub>	inch(mm)	5.20(132)	5.20(132)	5.20(132)
G <sub>1</sub>	inch(mm)	4.17(106)	4.17(106)	4.17(106)
G <sub>2</sub>	inch(mm)	4.72(120)	4.72(120)	4.72(120)
m <sub>1</sub>	inch(mm)	3.94(100)	3.94(100)	3.94(100)
m <sub>2</sub>	inch(mm)	2.76(70)	2.76(70)	2.76(70)
n <sub>1</sub>	inch(mm)	9.45(240)	9.45(240)	9.45(240)
n <sub>2</sub>	inch(mm)	7.48(190)	7.48(190)	7.48(190)
b	inch(mm)	1.97(50)	1.97(50)	1.97(50)
s	inch(mm)	0.55(14)	0.55(14)	0.55(14)
D	inch(mm)	-	-	-
LB	inch(mm)	10.35(263)	11.34(288)	11.34(288)
AD	inch(mm)	4.92(125)	4.92(125)	4.92(125)
AG	inch(mm)	3.98(101)	3.98(101)	3.98(101)
LL	inch(mm)	3.39(86)	3.39(86)	3.39(86)
BD	inch(mm)	6.50(165)	6.50(165)	6.50(165)
BA	inch(mm)	-	-	-
2F	inch(mm)	-	-	-
2E	inch(mm)	-	-	-
H	inch(mm)	-	-	-
Net Weight	lbs(kg)	103(47)	105(48)	109(50)
Gross Weight	lbs(kg)	120(55)	127(58)	131(60)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	2.90(0.082)	3.67(0.104)	3.67(0.104)

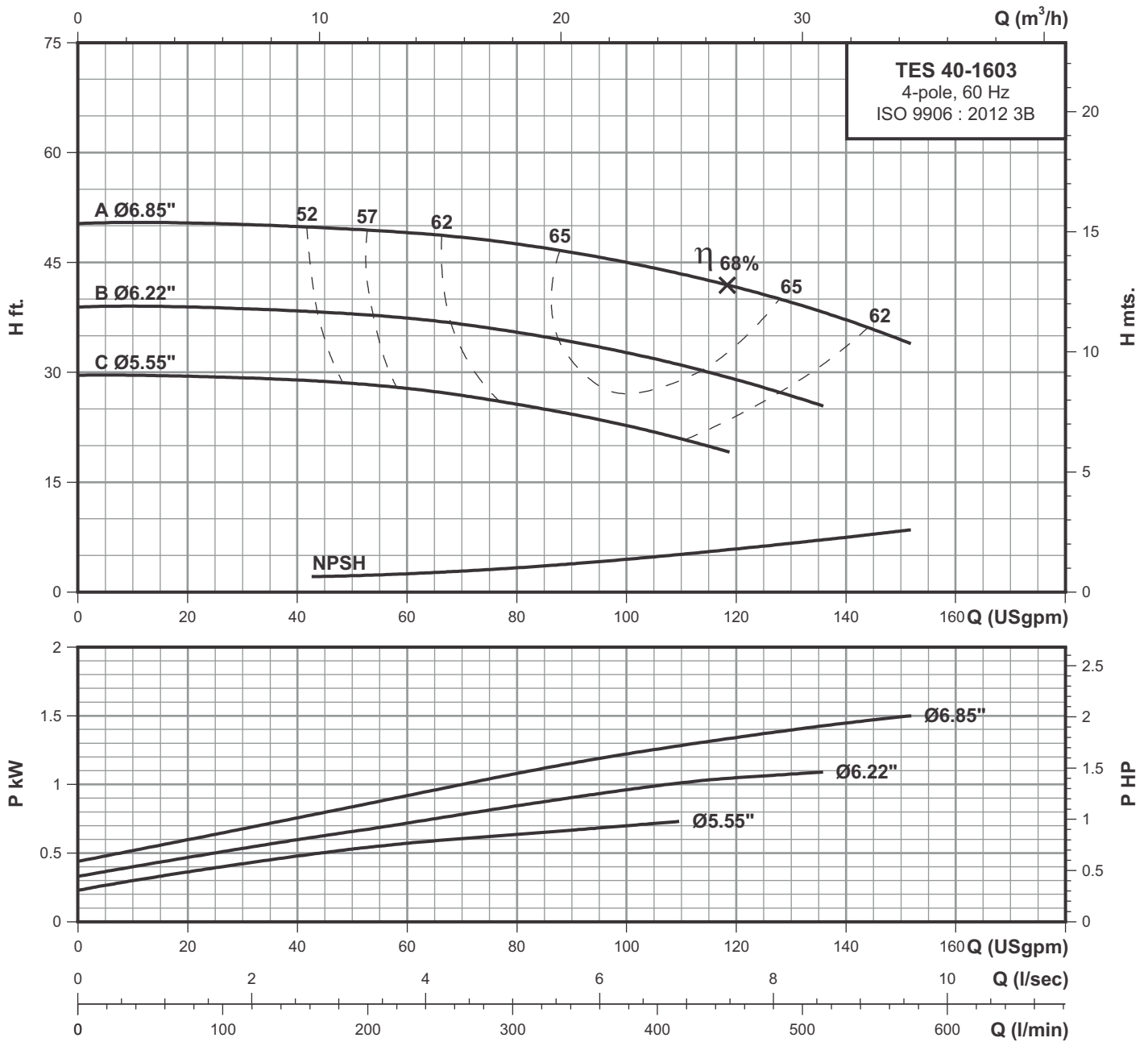
4 POLE

# Performance curves

Single-stage end-suction pumps

## TES 40-1603

### 4-pole



**4 POLE**

### Performance data at n=1750 rpm

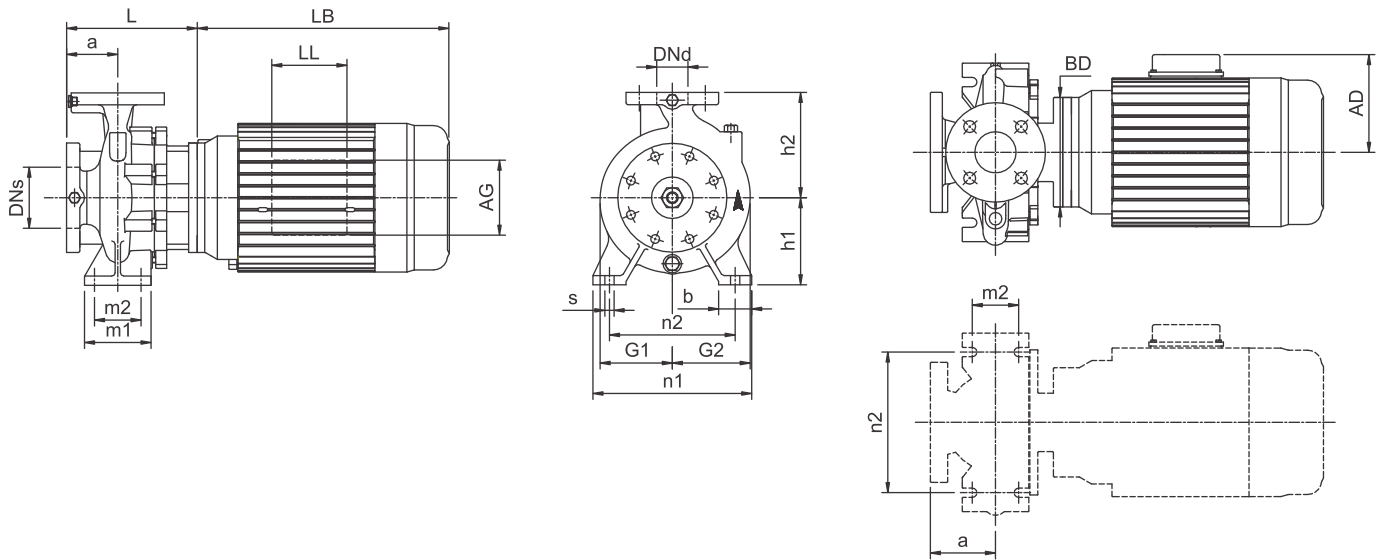
Model	Power		l/min USgpm	76	151	227	303	379	454	530
	HP	kW		20	40	60	80	100	120	140
TES 40-1603C	1.00	0.75	H ft.	29.5	28.9	27.8	25.5	22.6	-	-
TES 40-1603B	1.50	1.10		38.9	38.3	37.4	35.4	32.6	28.9	-
TES 40-1603A	2.00	1.50		50.4	49.8	49.1	47.6	45	41.5	37.2

# Technical data

## Single-stage end-suction pumps

# TES 40-2003

# 4-pole



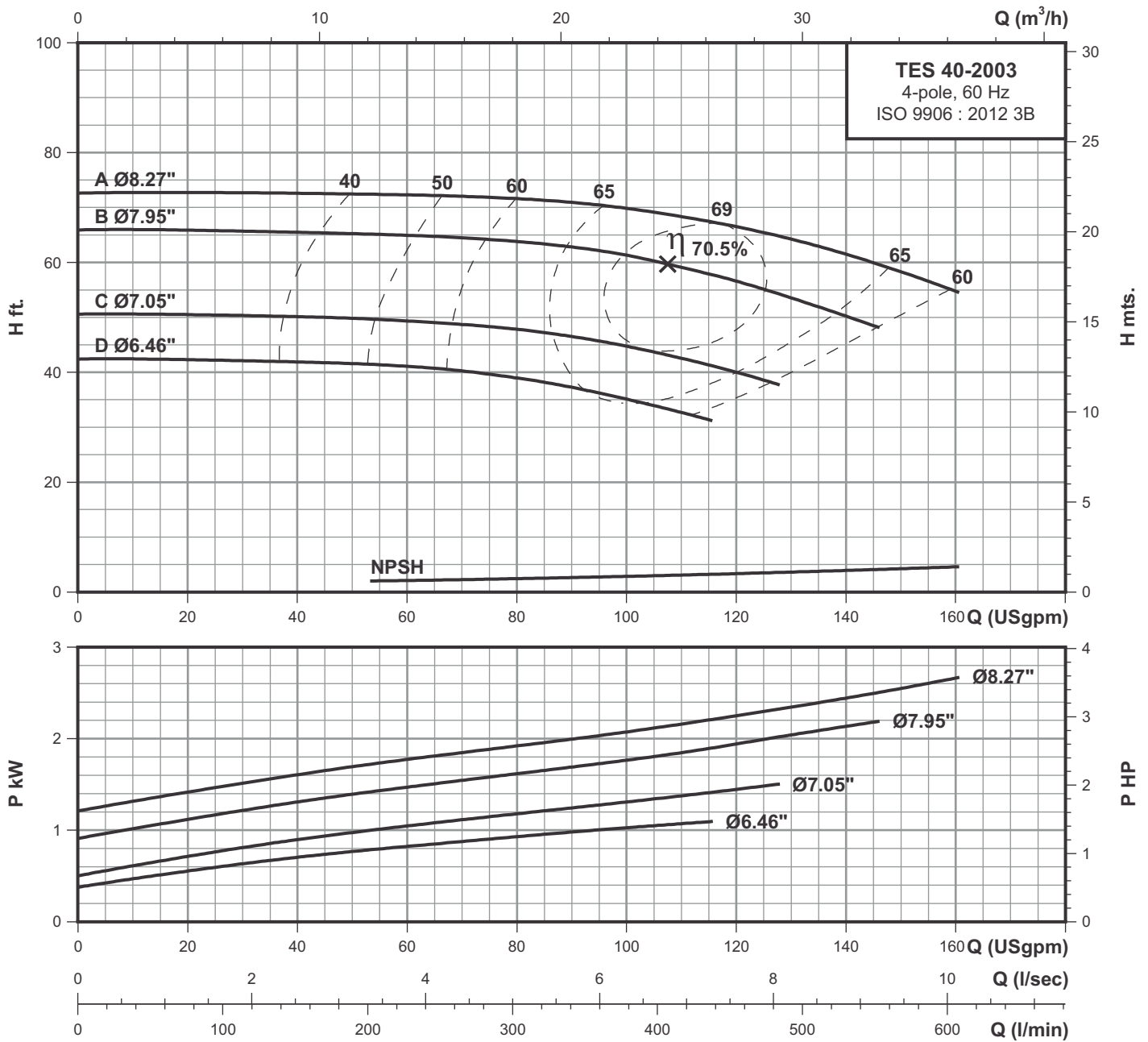
Power	(hp)	1.5	2	3	4
	(kw)	1.1	1.5	2.2	3
Frame		145JM	145JM	182JM	184JM
ANSI flange		125	125	125	125
Code for Impeller diameter		D	C	B	A
DNs	inch(mm)	2.50(65)	2.50(65)	2.50(65)	2.50(65)
Dnd	inch(mm)	1.50(40)	1.50(40)	1.50(40)	1.50(40)
a	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
h2	inch(mm)	7.09(180)	7.09(180)	7.09(180)	7.09(180)
L	inch(mm)	7.68(195)	7.68(195)	7.68(195)	7.68(195)
h1	inch(mm)	6.30(160)	6.30(160)	6.30(160)	6.30(160)
G1	inch(mm)	5.16(131)	5.16(131)	5.16(131)	5.16(131)
G2	inch(mm)	5.51(140)	5.51(140)	5.51(140)	5.51(140)
m1	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
m2	inch(mm)	2.76(70)	2.76(70)	2.76(70)	2.76(70)
n1	inch(mm)	10.43(265)	10.43(265)	10.43(265)	10.43(265)
n2	inch(mm)	8.35(212)	8.35(212)	8.35(212)	8.35(212)
b	inch(mm)	1.97(50)	1.97(50)	1.97(50)	1.97(50)
s	inch(mm)	0.55(14)	0.55(14)	0.55(14)	0.55(14)
D	inch(mm)	-	-	-	-
LB	inch(mm)	11.34(288)	11.34(288)	13.31(338)	13.31(338)
AD	inch(mm)	4.92(125)	4.92(125)	6.46(164)	6.46(164)
AG	inch(mm)	3.98(101)	3.98(101)	3.98(101)	3.98(101)
LL	inch(mm)	3.39(86)	3.39(86)	3.98(101)	3.98(101)
BD	inch(mm)	6.50(165)	6.50(165)	6.50(165)	6.50(165)
BA	inch(mm)	-	-	-	-
2F	inch(mm)	-	-	-	-
2E	inch(mm)	-	-	-	-
H	inch(mm)	-	-	-	-
Net Weight	lbs(kg)	114(52)	119(54)	150(68)	154(70)
Gross Weight	lbs(kg)	136(62)	141(64)	172(78)	176(80)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	3.67(0.104)	3.67(0.104)	3.67(0.104)	3.67(0.104)

4 POLE

# Performance curves

Single-stage end-suction pumps

## TES 40-2003 4-pole



### Performance data at n=1750 rpm

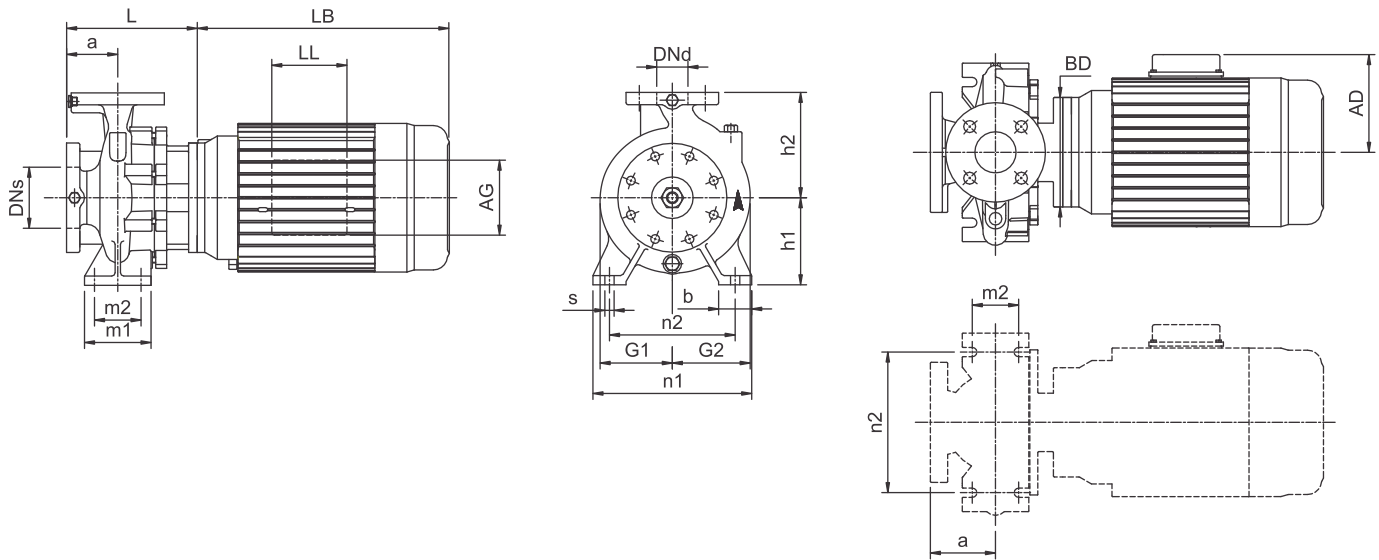
Model	Power		l/min USgpm	76	151	227	303	379	454	530	606
	HP	kW		20	40	60	80	100	120	140	160
TES 40-2003D	1.50	1.10	H ft.	42.4	41.8	41	38.9	35	-	-	-
TES 40-2003C	2.00	1.50		50.3	50	49.2	47.7	44.8	40	-	-
TES 40-2003B	3.00	2.20		65.7	65.4	64.8	63.9	61.3	56.6	50.4	-
TES 40-2003A	4.00	3.00		72.8	72.5	72.2	71.6	69.8	66.6	61.6	54.8

# Technical data

## Single-stage end-suction pumps

# TES 40-2503

## 4-pole



Power	(hp)	4	5	7.5
	(kw)	3	3.7	5.5
Frame		184JM	184JM	213JM
ANSI flange		125	125	125
Code for Impeller diameter		C	B	A
DN <sub>s</sub>	inch(mm)	2.50(65)	2.50(65)	2.50(65)
DN <sub>d</sub>	inch(mm)	1.50(40)	1.50(40)	1.50(40)
a	inch(mm)	3.94(100)	3.94(100)	3.94(100)
h <sub>2</sub>	inch(mm)	8.86(225)	8.86(225)	8.86(225)
L	inch(mm)	8.03(204)	8.03(204)	8.03(204)
h <sub>1</sub>	inch(mm)	7.09(180)	7.09(180)	7.09(180)
G <sub>1</sub>	inch(mm)	6.30(160)	6.30(160)	6.30(160)
G <sub>2</sub>	inch(mm)	6.69(170)	6.69(170)	6.69(170)
m <sub>1</sub>	inch(mm)	4.92(125)	4.92(125)	4.92(125)
m <sub>2</sub>	inch(mm)	3.74(95)	3.74(95)	3.74(95)
n <sub>1</sub>	inch(mm)	12.60(320)	12.60(320)	12.60(320)
n <sub>2</sub>	inch(mm)	9.84(250)	9.84(250)	9.84(250)
b	inch(mm)	2.56(65)	2.56(65)	2.56(65)
s	inch(mm)	0.55(14)	0.55(14)	0.55(14)
D	inch(mm)	-	-	-
LB	inch(mm)	13.31(338)	13.31(338)	14.92(379)
AD	inch(mm)	6.46(164)	6.46(164)	7.40(188)
AG	inch(mm)	3.98(101)	3.98(101)	5.16(131)
LL	inch(mm)	3.98(101)	3.98(101)	5.16(131)
BD	inch(mm)	6.50(165)	6.50(165)	8.86(225)
BA	inch(mm)	-	-	-
2F	inch(mm)	-	-	-
2E	inch(mm)	-	-	-
H	inch(mm)	-	-	-
Net Weight	lbs(kg)	184(84)	189(86)	253(115)
Gross Weight	lbs(kg)	206(94)	211(96)	275(125)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	7.93(0.225)	7.93(0.225)	7.93(0.225)

4 POLE

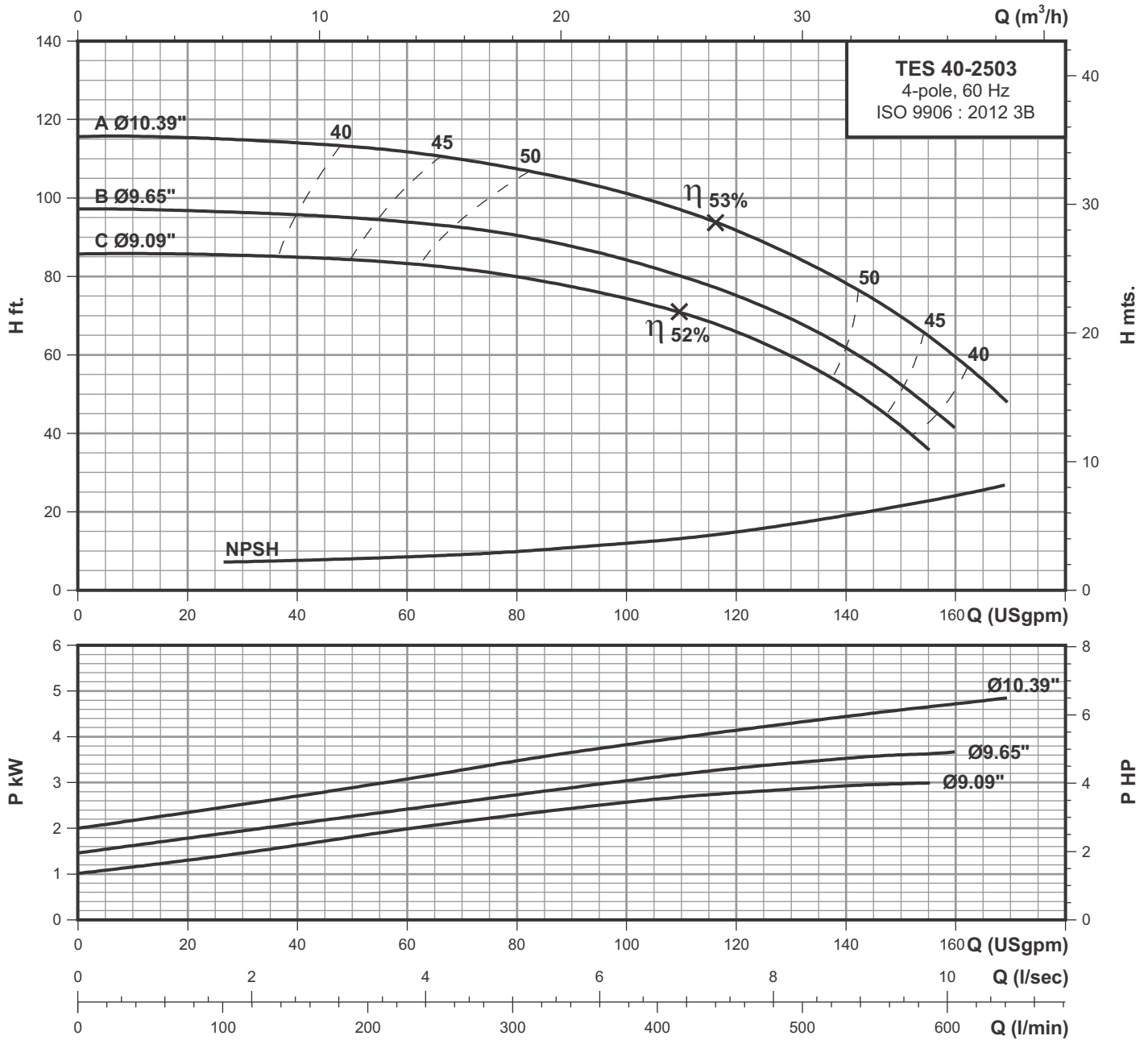


# Performance curves

Single-stage end-suction pumps

## TES 40-2503

### 4-pole



**4 POLE**

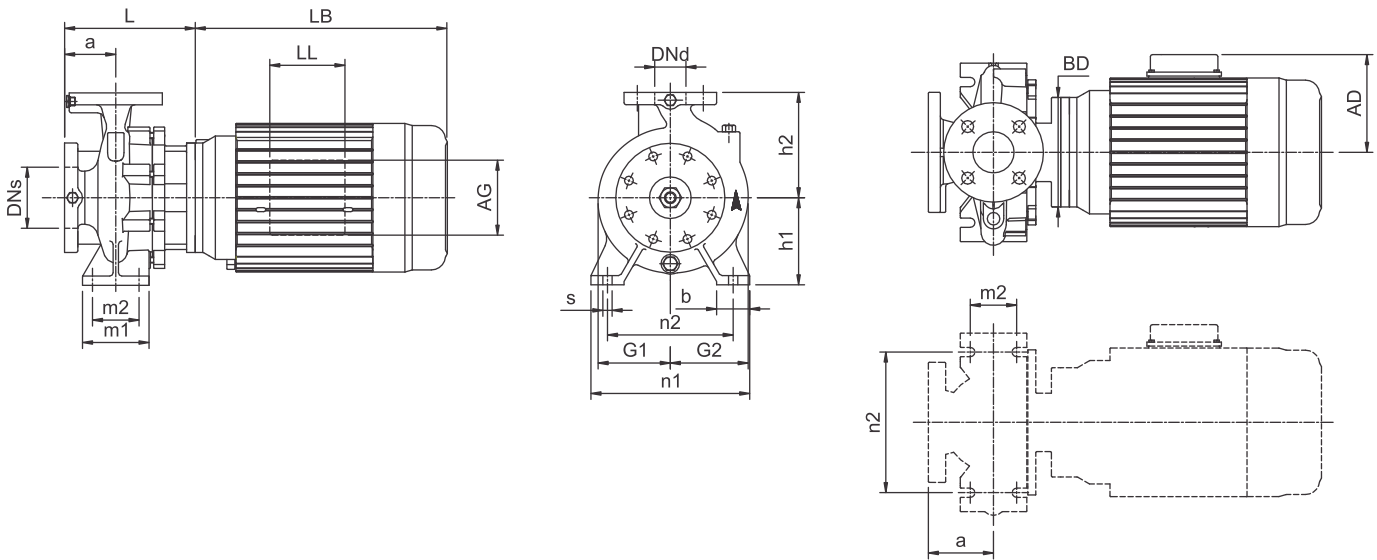
### Performance data at n=1750 rpm

Model	Power		l/min USgpm	76	151	227	303	379	454	530	606
	HP	kW		20	40	60	80	100	120	140	160
TES 40-2503C	4.00	3.00	H ft.	85.8	84.8	83.1	80	74.5	66	52	-
TES 40-2503B	5.00	3.70		96.7	95.7	93.7	90.6	84.1	75.3	61.6	41.4
TES 40-2503A	7.50	5.50		115.2	113.9	111.7	107.4	101.3	91.7	78.2	59.4

# Technical data

## Single-stage end-suction pumps

# TES 40-250L3 4-pole



Power	(hp)	4	5	7.5	10
	(kw)	3	3.7	5.5	7.5
Frame		184JM	184JM	213JM	215JM
ANSI flange		125	125	125	125
Code for Impeller diameter		D	C	B	A
DN <sub>s</sub>	inch(mm)	2.50(65)	2.50(65)	2.50(65)	2.50(65)
DN <sub>d</sub>	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)
h <sub>2</sub>	inch(mm)	8.86(225)	8.86(225)	8.86(225)	8.86(225)
L	inch(mm)	8.03(204)	8.03(204)	8.03(204)	8.03(204)
h <sub>1</sub>	inch(mm)	7.09(180)	7.09(180)	7.09(180)	7.09(180)
G <sub>1</sub>	inch(mm)	6.46(164)	6.46(164)	6.46(164)	6.46(164)
G <sub>2</sub>	inch(mm)	6.97(177)	6.97(177)	6.97(177)	6.97(177)
m <sub>1</sub>	inch(mm)	4.92(125)	4.92(125)	4.92(125)	4.92(125)
m <sub>2</sub>	inch(mm)	3.74(95)	3.74(95)	3.74(95)	3.74(95)
n <sub>1</sub>	inch(mm)	12.6(320)	12.6(320)	12.6(320)	12.6(320)
n <sub>2</sub>	inch(mm)	9.84(250)	9.84(250)	9.84(250)	9.84(250)
b	inch(mm)	2.56(65)	2.56(65)	2.56(65)	2.56(65)
s	inch(mm)	0.55(14)	0.55(14)	0.55(14)	0.55(14)
D	inch(mm)	-	-	-	-
LB	inch(mm)	13.31(338)	13.31(338)	14.92(379)	16.42(417)
AD	inch(mm)	6.46(164)	6.46(164)	7.40(188)	7.40(188)
AG	inch(mm)	3.98(101)	3.98(101)	5.16(131)	5.16(131)
LL	inch(mm)	3.98(101)	3.98(101)	5.16(131)	5.16(131)
BD	inch(mm)	6.50(165)	6.50(165)	8.86(225)	8.86(225)
BA	inch(mm)	-	-	-	-
2F	inch(mm)	-	-	-	-
2E	inch(mm)	-	-	-	-
H	inch(mm)	-	-	-	-
Net Weight	lbs(kg)	184(84)	189(86)	253(115)	278(126)
Gross Weight	lbs(kg)	206(94)	211(96)	275(125)	300(136)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	5.51(0.156)	5.51(0.156)	5.51(0.156)	5.51(0.156)

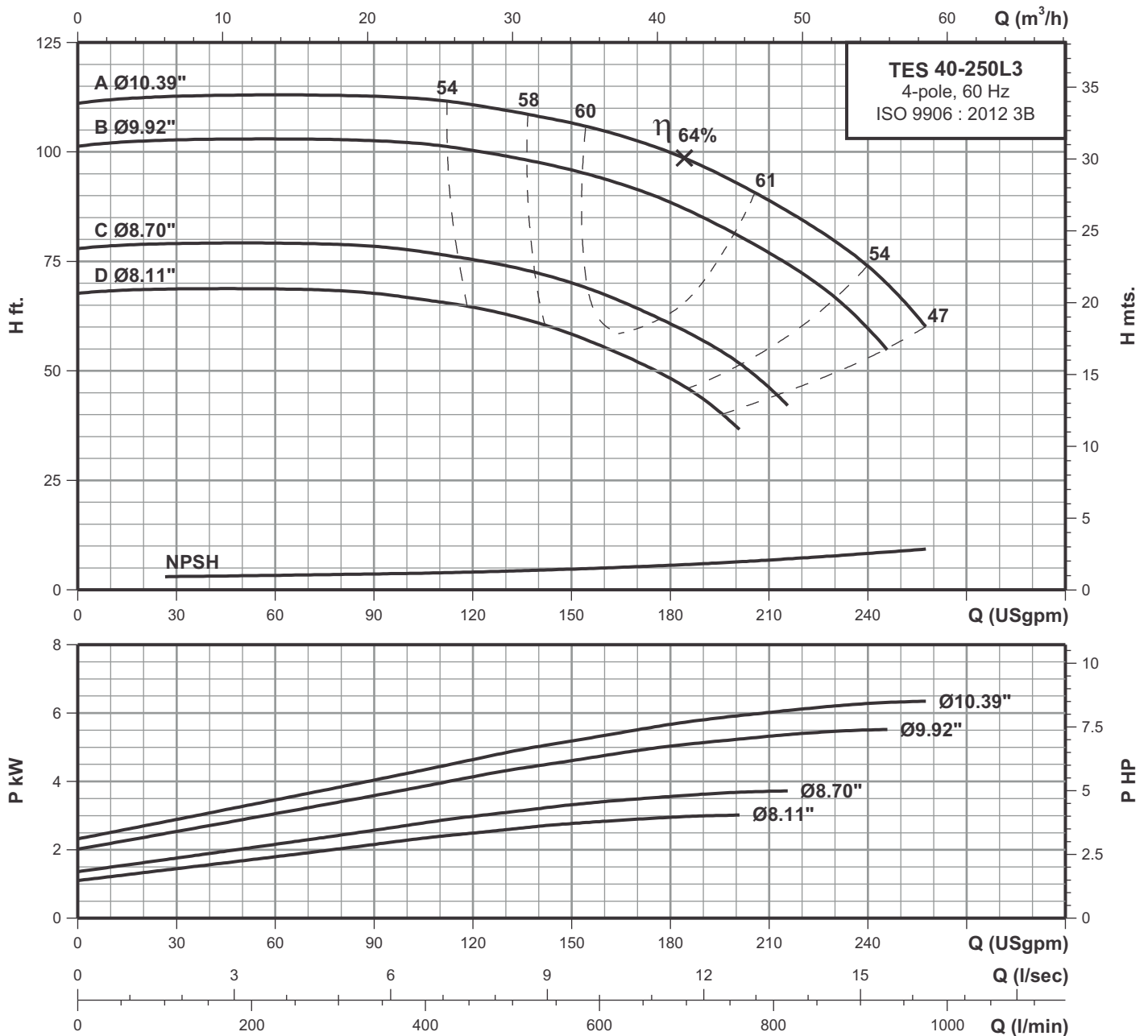
4 POLE

# Performance curves

Single-stage end-suction pumps

## TES 40-250L3

### 4-pole



**4 POLE**

### Performance data at n=1750 rpm

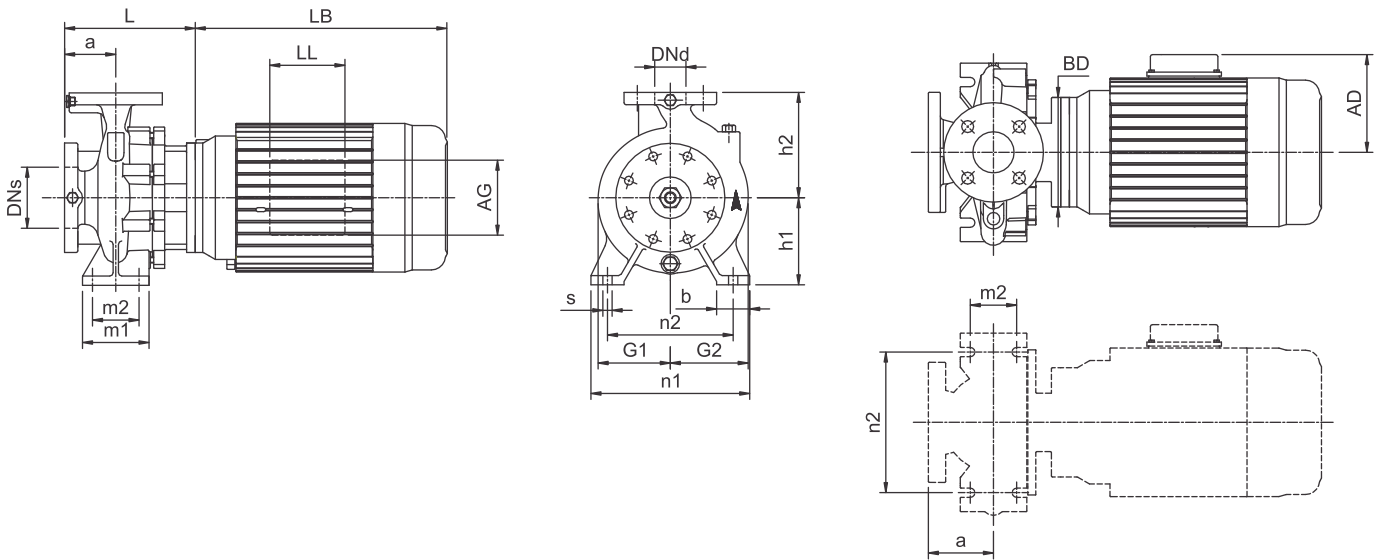
Model	Power		l/min USgpm	227	341	454	568	681	795	908
	HP	kW		60	90	120	150	180	210	240
TES 40-250L3D	4.00	3.00	H ft.	68.7	67.8	64.4	58.2	48.4	-	-
TES 40-250L3C	5.00	3.70		79.2	78.2	75.5	70.3	60.7	45.9	-
TES 40-250L3B	7.50	5.50		102.9	102.6	100.4	95.8	88.4	77	59.4
TES 40-250L3A	10.0	7.50		113.1	112.8	110.9	106.6	100	88.7	73.9

# Technical data

## Single-stage end-suction pumps

# TES 50-1253

# 4-pole



Power	(hp)	1	1.5
	(kw)	0.75	1.1
Frame		143JM	145JM
ANSI flange		125	125
Code for Impeller diameter		B	A
DN <sub>s</sub>	inch(mm)	2.50(65)	2.50(65)
DN <sub>d</sub>	inch(mm)	2.00(50)	2.00(50)
a	inch(mm)	3.94(100)	3.94(100)
h <sub>2</sub>	inch(mm)	6.30(160)	6.30(160)
L	inch(mm)	7.64(194)	7.64(194)
h <sub>1</sub>	inch(mm)	5.20(132)	5.20(132)
G <sub>1</sub>	inch(mm)	3.86(98)	3.86(98)
G <sub>2</sub>	inch(mm)	4.43(113)	4.43(113)
m <sub>1</sub>	inch(mm)	3.94(100)	3.94(100)
m <sub>2</sub>	inch(mm)	2.76(70)	2.76(70)
n <sub>1</sub>	inch(mm)	9.45(240)	9.45(240)
n <sub>2</sub>	inch(mm)	7.48(190)	7.48(190)
b	inch(mm)	1.97(50)	1.97(50)
s	inch(mm)	0.55(14)	0.55(14)
D	inch(mm)	-	-
LB	inch(mm)	10.35(263)	11.34(288)
AD	inch(mm)	4.92(125)	4.92(125)
AG	inch(mm)	3.98(101)	3.98(101)
LL	inch(mm)	3.39(86)	3.39(86)
BD	inch(mm)	6.50(165)	6.50(165)
BA	inch(mm)	-	-
2F	inch(mm)	-	-
2E	inch(mm)	-	-
H	inch(mm)	-	-
Net Weight	lbs(kg)	101(46)	104(47)
Gross Weight	lbs(kg)	118(54)	126(57)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	2.90(0.082)	3.67(0.104)

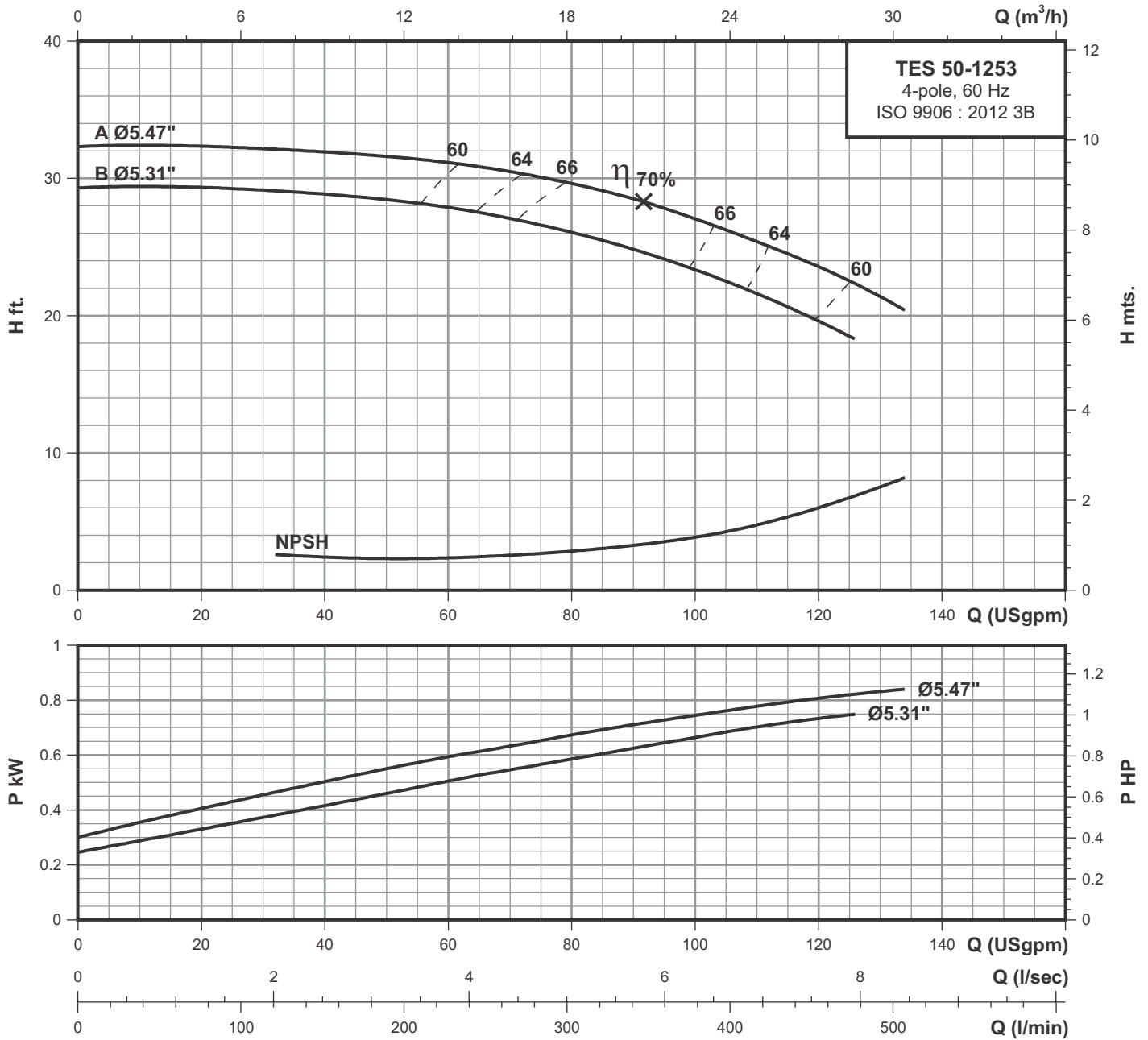
4 POLE

# Performance curves

Single-stage end-suction pumps

## TES 50-1253

### 4-pole



**4 POLE**

### Performance data at n=1750 rpm

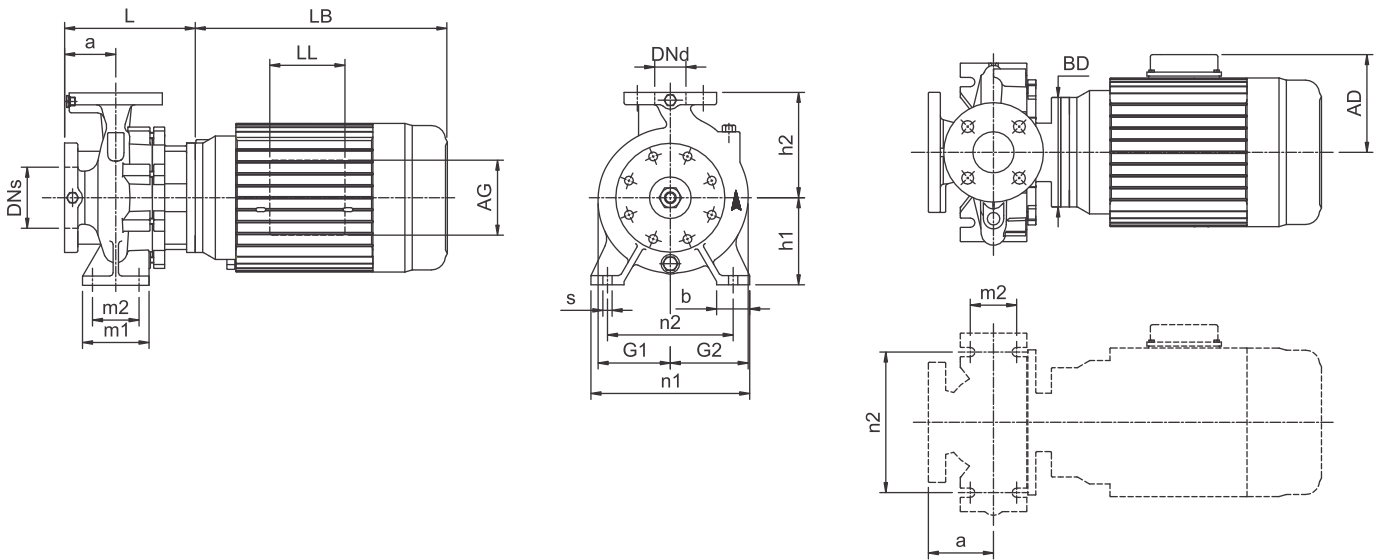
Model	Power		l/min USgpm	76	151	227	303	379	454
	HP	kW		20	40	60	80	100	120
TES 50-1253B	1.00	0.75	H ft.	29.3	28.9	27.8	26	23.4	19.5
TES 50-1253A	1.50	1.10		32.3	32	31.1	29.6	27.1	23.6

# Technical data

## Single-stage end-suction pumps

# TES 50-125L3

## 4-pole



Power	(hp)	1	1.5
	(kw)	0.75	1.1
Frame		143JM	145JM
ANSI flange		125	125
Code for Impeller diameter		B	A
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)	7.64(194)	7.64(194)
h1	inch(mm)	5.20(132)	5.20(132)
G1	inch(mm)	4.13(105)	4.13(105)
G2	inch(mm)	4.92(125)	4.92(125)
m1	inch(mm)	3.94(100)	3.94(100)
m2	inch(mm)	2.76(70)	2.76(70)
n1	inch(mm)	9.45(240)	9.45(240)
n2	inch(mm)	7.48(190)	7.48(190)
b	inch(mm)	1.97(50)	1.97(50)
s	inch(mm)	0.55(14)	0.55(14)
D	inch(mm)	-	-
LB	inch(mm)	10.35(263)	11.34(288)
AD	inch(mm)	4.92(125)	4.92(125)
AG	inch(mm)	3.98(101)	3.98(101)
LL	inch(mm)	3.39(86)	3.39(86)
BD	inch(mm)	6.50(165)	6.50(165)
BA	inch(mm)	-	-
2F	inch(mm)	-	-
2E	inch(mm)	-	-
H	inch(mm)	-	-
Net Weight	lbs(kg)	103(47)	105(48)
Gross Weight	lbs(kg)	120(55)	127(58)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	2.90(0.082)	3.67(0.104)

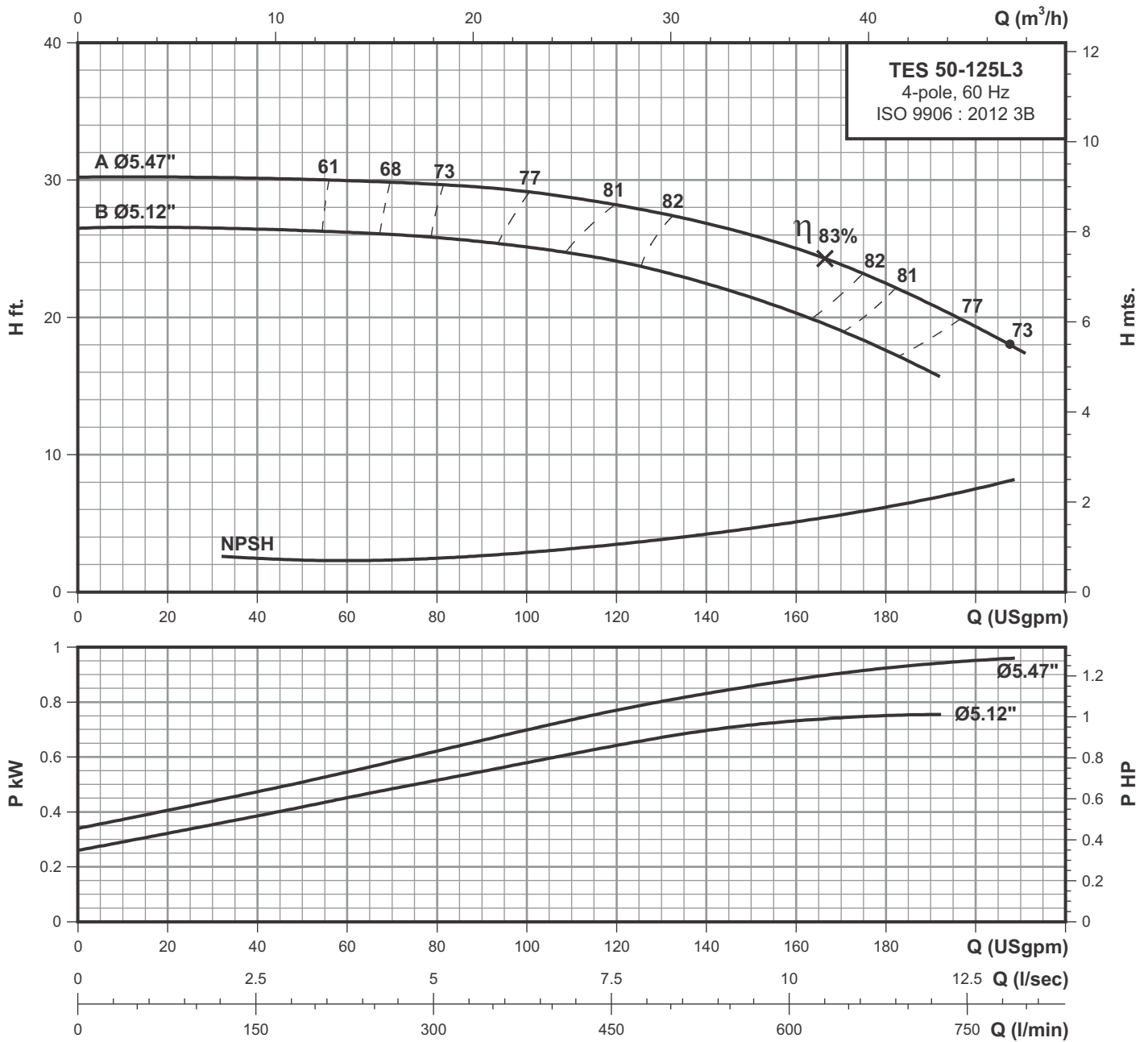
4 POLE

# Performance curves

## TES 50-125L3

### Single-stage end-suction pumps

### 4-pole



**4 POLE**

### Performance data at n=1750 rpm

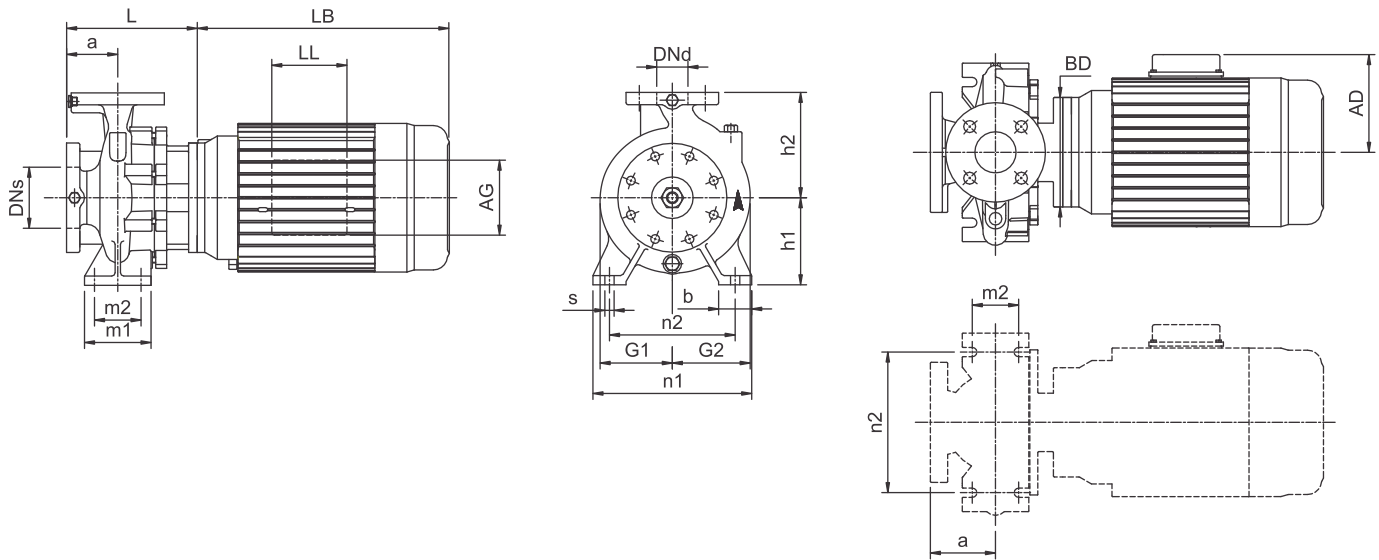
Model	Power		l/min USgpm	76	151	227	303	379	454	530	606	681	757
	HP	kW		20	40	60	80	100	120	140	160	180	200
TES 50-125L3B	1.00	0.75	H ft.	26.5	26.4	26.2	25.8	25.1	24.1	22.4	20.3	17.6	-
TES 50-125L3A	1.50	1.10		30.2	30.1	29.9	29.6	29.1	28.1	26.9	25	22.4	19.3

# Technical data

## Single-stage end-suction pumps

# TES 50-1603

## 4-pole



Power	(hp)	1.5	2	3
	(kw)	1.1	1.5	2.2
Frame		145JM	145JM	182JM
ANSI flange		125	125	125
Code for Impeller diameter		C	B	A
DN <sub>s</sub>	inch(mm)	2.50(65)	2.50(65)	2.50(65)
D <sub>nd</sub>	inch(mm)	2.00(50)	2.00(50)	2.00(50)
a	inch(mm)	3.94(100)	3.94(100)	3.94(100)
h <sub>2</sub>	inch(mm)	7.09(180)	7.09(180)	7.09(180)
L	inch(mm)	7.64(194)	7.64(194)	7.64(194)
h <sub>1</sub>	inch(mm)	6.30(160)	6.30(160)	6.30(160)
G <sub>1</sub>	inch(mm)	4.76(121)	4.76(121)	4.76(121)
G <sub>2</sub>	inch(mm)	5.43(138)	5.43(138)	5.43(138)
m <sub>1</sub>	inch(mm)	3.94(100)	3.94(100)	3.94(100)
m <sub>2</sub>	inch(mm)	2.76(70)	2.76(70)	2.76(70)
n <sub>1</sub>	inch(mm)	10.43(265)	10.43(265)	10.43(265)
n <sub>2</sub>	inch(mm)	8.35(212)	8.35(212)	8.35(212)
b	inch(mm)	1.97(50)	1.97(50)	1.97(50)
s	inch(mm)	0.55(14)	0.55(14)	0.55(14)
D	inch(mm)	-	-	-
LB	inch(mm)	11.34(288)	11.34(288)	13.31(338)
AD	inch(mm)	4.92(125)	4.92(125)	6.46(164)
AG	inch(mm)	3.98(101)	3.98(101)	3.98(101)
LL	inch(mm)	3.39(86)	3.39(86)	3.98(101)
BD	inch(mm)	6.50(165)	6.50(165)	6.50(165)
BA	inch(mm)	-	-	-
2F	inch(mm)	-	-	-
2E	inch(mm)	-	-	-
H	inch(mm)	-	-	-
Net Weight	lbs(kg)	111(51)	116(53)	146(66)
Gross Weight	lbs(kg)	133(61)	138(63)	168(76)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	3.67(0.104)	3.67(0.104)	3.67(0.104)

4 POLE

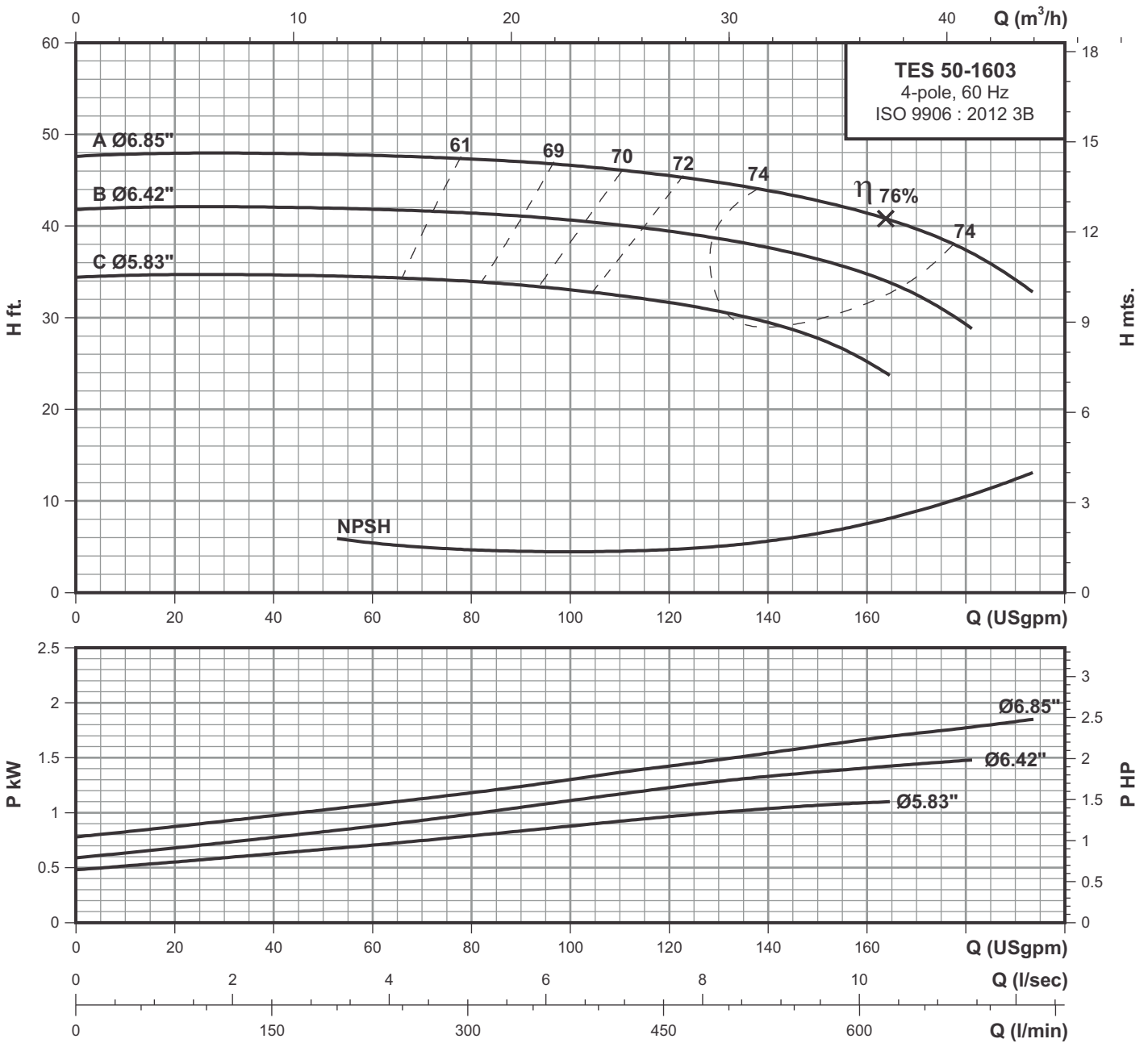


# Performance curves

## TES 50-1603

### Single-stage end-suction pumps

### 4-pole



### Performance data at n=1750 rpm

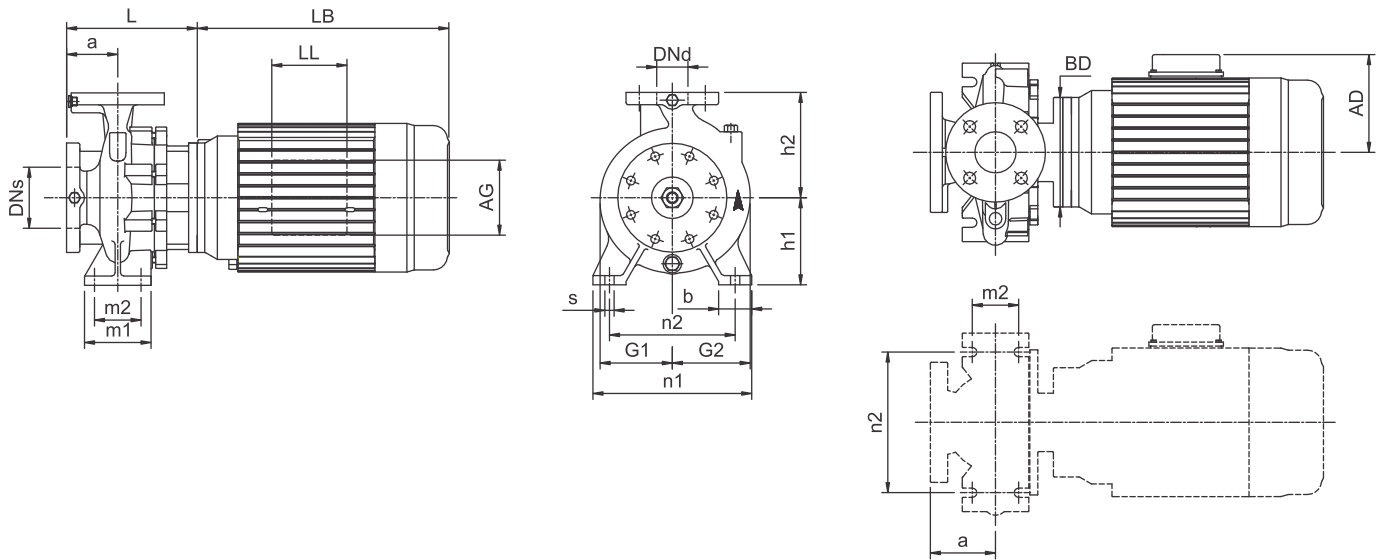
Model	Power		l/min USgpm	76	151	227	303	379	454	530	606	681
	HP	kW		20	40	60	80	100	120	140	160	180
TES 50-1603C	1.50	1.10	H ft.	34.7	34.7	34.4	34	33	31.5	29.5	25.2	-
TES 50-1603B	2.00	1.50		42.1	42	41.8	41.3	40.7	39.4	37.7	34.7	29.3
TES 50-1603A	3.00	2.20		48	48	47.6	47.3	46.7	45.4	43.8	41.4	37.3

# Technical data

## Single-stage end-suction pumps

# TES 50-2003

# 4-pole



	(hp)	3	4	5
Power	(kw)	2.2	3	3.7
Frame		182JM	184JM	184JM
ANSI flange		125	125	125
Code for Impeller diameter		C	B	A
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)	8.03(204)	8.03(204)	8.03(204)
h1	inch(mm)	6.30(160)	6.30(160)	6.30(160)
G1	inch(mm)	5.51(140)	5.51(140)	5.51(140)
G2	inch(mm)	6.10(155)	6.10(155)	6.10(155)
m1	inch(mm)	3.94(100)	3.94(100)	3.94(100)
m2	inch(mm)	2.76(70)	2.76(70)	2.76(70)
n1	inch(mm)	10.43(265)	10.43(265)	10.43(265)
n2	inch(mm)	8.35(212)	8.35(212)	8.35(212)
b	inch(mm)	1.97(50)	1.97(50)	1.97(50)
s	inch(mm)	0.55(14)	0.55(14)	0.55(14)
D	inch(mm)	-	-	-
LB	inch(mm)	13.31(338)	13.31(338)	13.31(338)
AD	inch(mm)	6.46(164)	6.46(164)	6.46(164)
AG	inch(mm)	3.98(101)	3.98(101)	3.98(101)
LL	inch(mm)	3.98(101)	3.98(101)	3.98(101)
BD	inch(mm)	6.50(165)	6.50(165)	6.50(165)
BA	inch(mm)	-	-	-
2F	inch(mm)	-	-	-
2E	inch(mm)	-	-	-
H	inch(mm)	-	-	-
Net Weight	lbs(kg)	159(72)	164(74)	168(76)
Gross Weight	lbs(kg)	181(82)	186(84)	190(86)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	5.01(0.142)	5.01(0.142)	5.01(0.142)

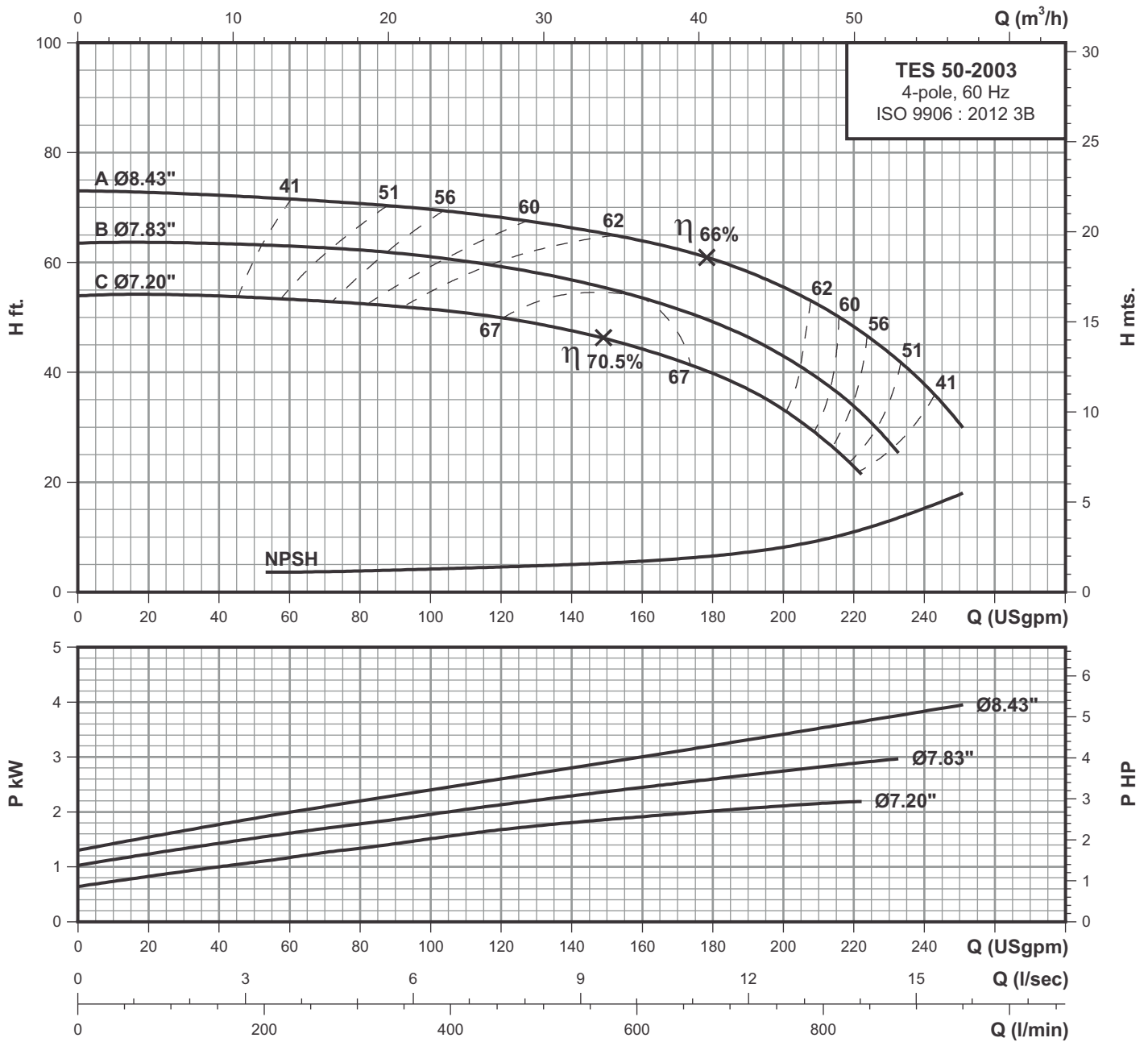
4 POLE

# Performance curves

Single-stage end-suction pumps

## TES 50-2003

### 4-pole



**4 POLE**

### Performance data at n=1750 rpm

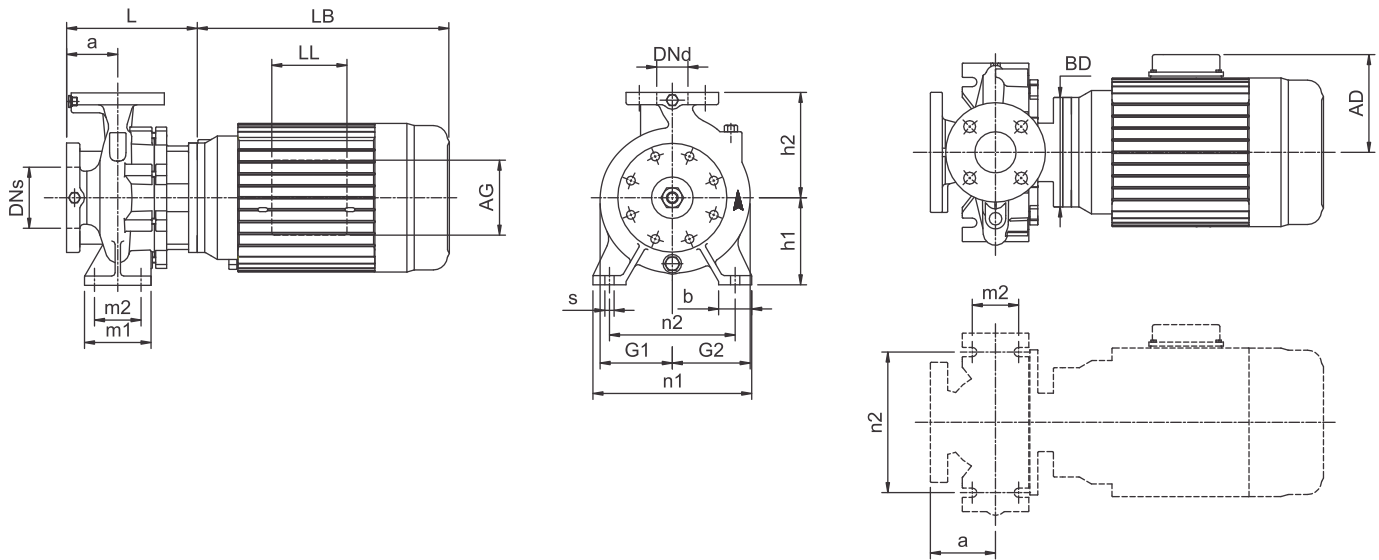
Model	Power		l/min USgpm	151	227	303	379	454	530	606	681	757	833	909
	HP	kW		40	60	80	100	120	140	160	180	200	220	240
TES 50-2003C	3.00	2.20	H ft.	53.8	53.3	52.5	51.5	50	47.6	44.3	40	33.2	22.6	-
TES 50-2003B	4.00	3.00		63.4	63	62.3	61	59.3	56.7	53.3	49.4	43	34	-
TES 50-2003A	5.00	3.70		72.2	71.6	70.6	69.5	68.3	66.2	63.9	60.8	55.6	48.4	37.6

# Technical data

## Single-stage end-suction pumps

# TES 50-2503

# 4-pole



Power	(hp)	4	5	7.5
	(kw)	3	3.7	5.5
Frame		184JM	184JM	213JM
ANSI flange		125	125	125
Code for Impeller diameter		C	B	A
DN <sub>s</sub>	inch(mm)	2.50(65)	2.50(65)	2.50(65)
DN <sub>d</sub>	inch(mm)	2.00(50)	2.00(50)	2.00(50)
a	inch(mm)	3.94(100)	3.94(100)	3.94(100)
h <sub>2</sub>	inch(mm)	8.86(225)	8.86(225)	8.86(225)
L	inch(mm)	8.03(204)	8.03(204)	8.03(204)
h <sub>1</sub>	inch(mm)	7.09(180)	7.09(180)	7.09(180)
G <sub>1</sub>	inch(mm)	6.34(161)	6.34(161)	6.34(161)
G <sub>2</sub>	inch(mm)	6.89(175)	6.89(175)	6.89(175)
m <sub>1</sub>	inch(mm)	4.92(125)	4.92(125)	4.92(125)
m <sub>2</sub>	inch(mm)	3.74(95)	3.74(95)	3.74(95)
n <sub>1</sub>	inch(mm)	12.60(320)	12.60(320)	12.60(320)
n <sub>2</sub>	inch(mm)	9.84(250)	9.84(250)	9.84(250)
b	inch(mm)	2.56(65)	2.56(65)	2.56(65)
s	inch(mm)	0.55(14)	0.55(14)	0.55(14)
D	inch(mm)	-	-	-
LB	inch(mm)	13.31(338)	13.31(338)	14.92(379)
AD	inch(mm)	6.46(164)	6.46(164)	7.40(188)
AG	inch(mm)	3.98(101)	3.98(101)	5.16(131)
LL	inch(mm)	3.98(101)	3.98(101)	5.16(131)
BD	inch(mm)	6.50(165)	6.50(165)	8.86(225)
BA	inch(mm)	-	-	-
2F	inch(mm)	-	-	-
2E	inch(mm)	-	-	-
H	inch(mm)	-	-	-
Net Weight	lbs(kg)	189(86)	193(88)	258(117)
Gross Weight	lbs(kg)	211(96)	215(98)	280(127)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	7.93(0.225)	7.93(0.225)	7.93(0.225)

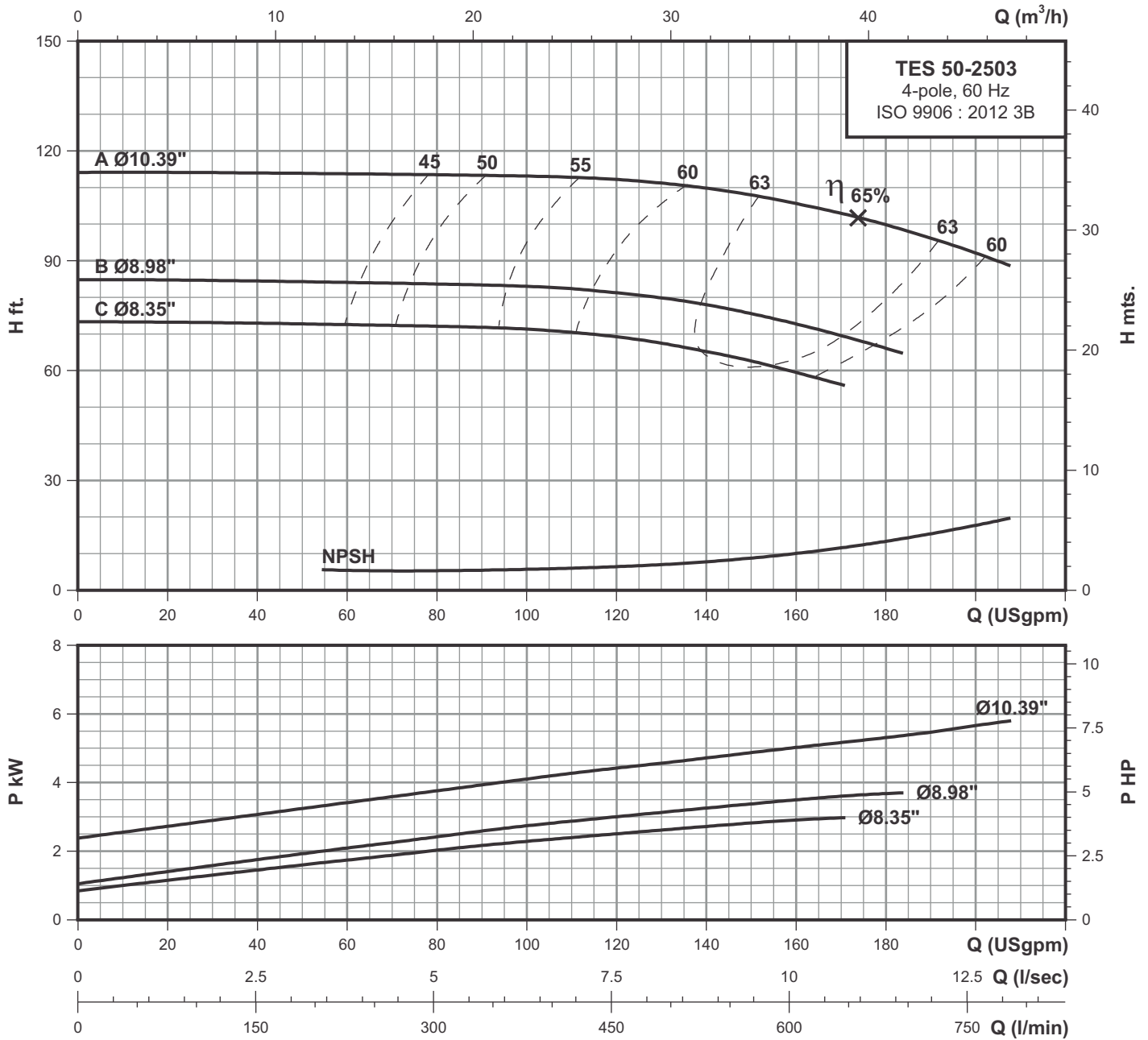
4 POLE

# Performance curves

## TES 50-2503

### Single-stage end-suction pumps

### 4-pole



**4 POLE**

### Performance data at n=1750 rpm

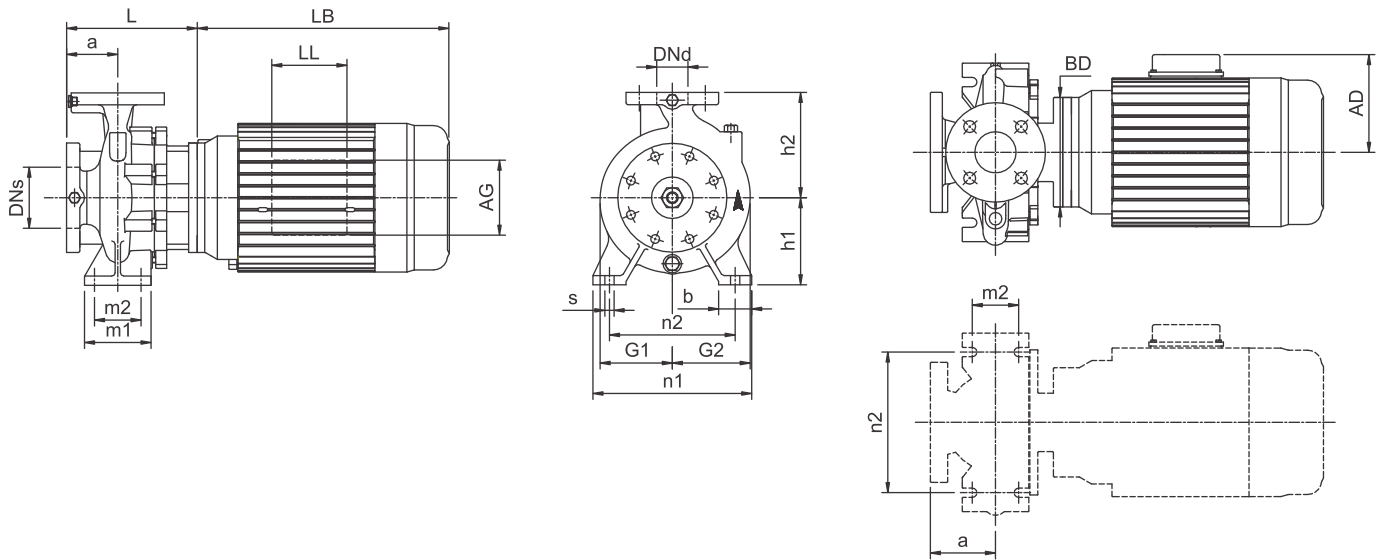
Model	Power		l/min USgpm	76	151	227	303	379	454	530	606	681	757
	HP	kW		20	40	60	80	100	120	140	160	180	200
TES 50-2503C	4.00	3.00	H ft.	73.4	73	72.5	72.1	71.3	69.1	65.3	59.4	-	-
TES 50-2503B	5.00	3.70		84.7	84.3	83.9	83.4	83	81.3	78	73	65.7	-
TES 50-2503A	7.50	5.50		114.2	113.8	113.8	113.3	113	112.1	110	105.8	100	92.3

# Technical data

## Single-stage end-suction pumps

# TES 65-1253

# 4-pole



Power	(hp)	1	1.5	2
	(kw)	0.75	1.1	1.5
Frame		143JM	145JM	145JM
ANSI flange		125	125	125
Code for Impeller diameter		C	B	A
DN <sub>s</sub>	inch(mm)	3.00(80)	3.00(80)	3.00(80)
DN <sub>d</sub>	inch(mm)	2.50(65)	2.50(65)	2.50(65)
a	inch(mm)	3.94(100)	3.94(100)	3.94(100)
h <sub>2</sub>	inch(mm)	7.09(180)	7.09(180)	7.09(180)
L	inch(mm)	7.64(194)	7.64(194)	7.64(194)
h <sub>1</sub>	inch(mm)	6.30(160)	6.30(160)	6.30(160)
G <sub>1</sub>	inch(mm)	4.09(104)	4.09(104)	4.09(104)
G <sub>2</sub>	inch(mm)	5.08(129)	5.08(129)	5.08(129)
m <sub>1</sub>	inch(mm)	4.92(125)	4.92(125)	4.92(125)
m <sub>2</sub>	inch(mm)	3.74(95)	3.74(95)	3.74(95)
n <sub>1</sub>	inch(mm)	11.02(280)	11.02(280)	11.02(280)
n <sub>2</sub>	inch(mm)	8.35(212)	8.35(212)	8.35(212)
b	inch(mm)	2.56(65)	2.56(65)	2.56(65)
s	inch(mm)	0.55(14)	0.55(14)	0.55(14)
D	inch(mm)	-	-	-
LB	inch(mm)	10.35(263)	11.34(288)	11.34(288)
AD	inch(mm)	4.92(125)	4.92(125)	4.92(125)
AG	inch(mm)	3.98(101)	3.98(101)	3.98(101)
LL	inch(mm)	3.39(86)	3.39(86)	3.39(86)
BD	inch(mm)	6.50(165)	6.50(165)	6.50(165)
BA	inch(mm)	-	-	-
2F	inch(mm)	-	-	-
2E	inch(mm)	-	-	-
H	inch(mm)	-	-	-
Net Weight	lbs(kg)	113(51)	115(52)	119(54)
Gross Weight	lbs(kg)	135(61)	137(62)	141(64)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	3.67(0.104)	3.67(0.104)	3.67(0.104)

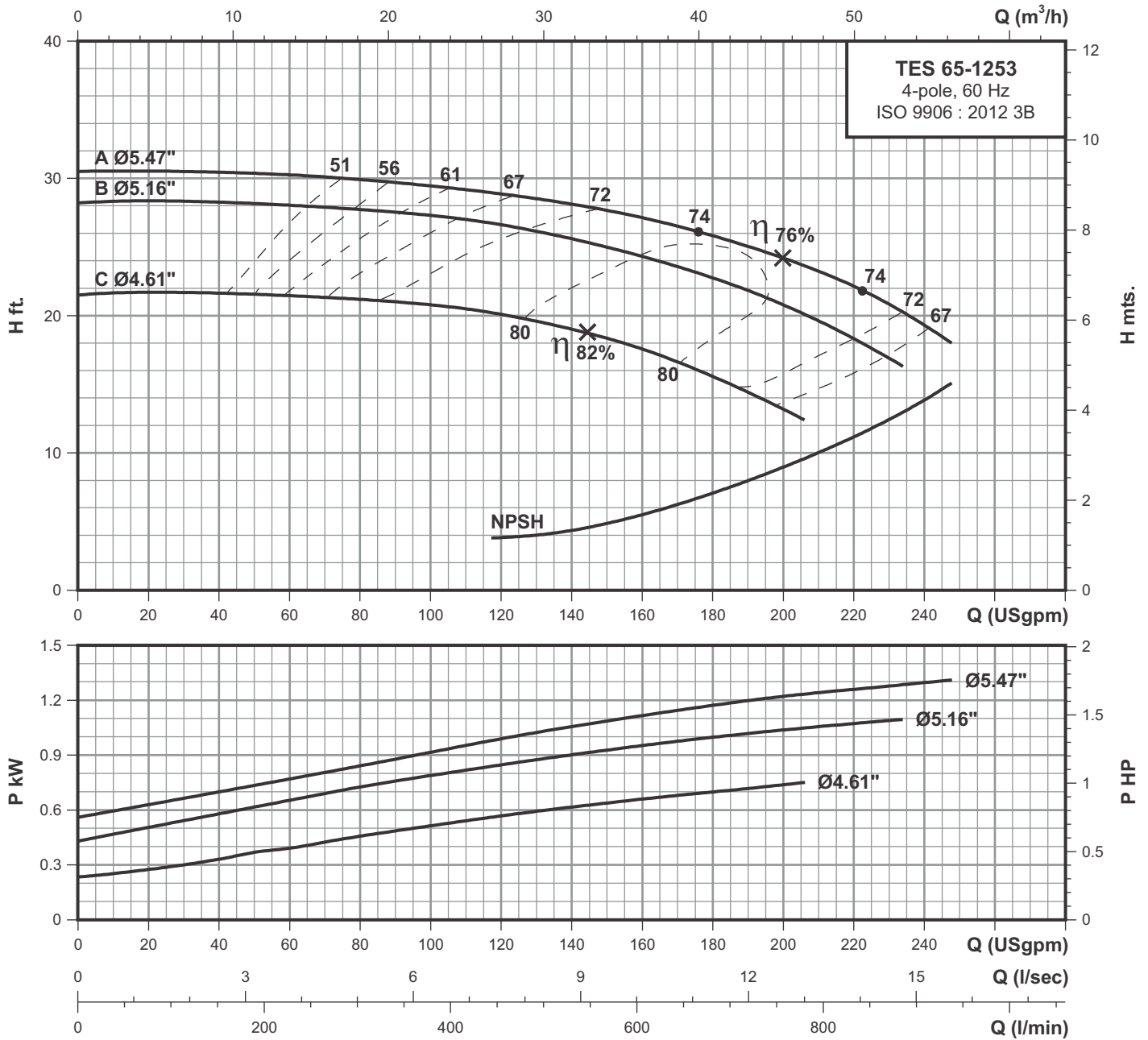
4 POLE

# Performance curves

Single-stage end-suction pumps

## TES 65-1253

### 4-pole



**4 POLE**

### Performance data at n=1750 rpm

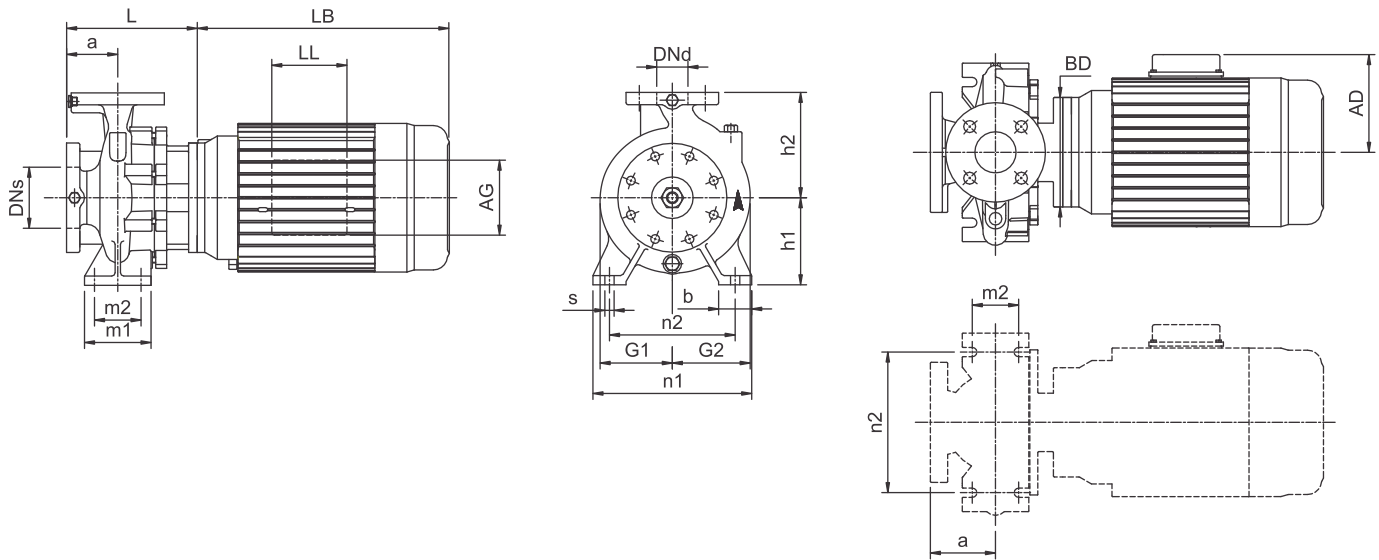
Model	Power		l/min USgpm	151	227	303	379	454	530	606	681	757	833	909
	HP	kW		40	60	80	100	120	140	160	180	200	220	240
TES 65-1253C	1.00	0.75	H ft.	21.6	21.4	21.2	20.8	20	19	17.5	15.5	13.2	-	-
TES 65-1253B	1.50	1.10		28.2	28	27.7	27.2	26.6	25.5	24.2	22.7	20.8	18.3	-
TES 65-1253A	2.00	1.50		30.4	30.2	29.9	29.5	29	28.1	27	25.8	24.2	22.1	19.3

# Technical data

## Single-stage end-suction pumps

# TES 65-1603

# 4-pole



Power	(hp)	2	3	4
	(kw)	1.5	2.2	3
Frame		145JM	182JM	184JM
ANSI flange		125	125	125
Code for Impeller diameter		C	B	A
DN <sub>s</sub>	inch(mm)	3.00(80)	3.00(80)	3.00(80)
DN <sub>d</sub>	inch(mm)	2.50(65)	2.50(65)	2.50(65)
a	inch(mm)	3.94(100)	3.94(100)	3.94(100)
h <sub>2</sub>	inch(mm)	7.87(200)	7.87(200)	7.87(200)
L	inch(mm)	7.64(194)	7.64(194)	7.64(194)
h <sub>1</sub>	inch(mm)	6.30(160)	6.30(160)	6.30(160)
G <sub>1</sub>	inch(mm)	4.72(120)	4.72(120)	4.72(120)
G <sub>2</sub>	inch(mm)	5.51(140)	5.51(140)	5.51(140)
m <sub>1</sub>	inch(mm)	4.92(125)	4.92(125)	4.92(125)
m <sub>2</sub>	inch(mm)	3.74(95)	3.74(95)	3.74(95)
n <sub>1</sub>	inch(mm)	11.02(280)	11.02(280)	11.02(280)
n <sub>2</sub>	inch(mm)	8.35(212)	8.35(212)	8.35(212)
b	inch(mm)	2.56(65)	2.56(65)	2.56(65)
s	inch(mm)	0.55(14)	0.55(14)	0.55(14)
D	inch(mm)	-	-	-
LB	inch(mm)	11.34(288)	13.31(338)	13.31(338)
AD	inch(mm)	4.92(125)	6.46(164)	6.46(164)
AG	inch(mm)	3.98(101)	3.98(101)	3.98(101)
LL	inch(mm)	3.39(86)	3.98(101)	3.98(101)
BD	inch(mm)	6.50(165)	6.50(165)	6.50(165)
BA	inch(mm)	-	-	-
2F	inch(mm)	-	-	-
2E	inch(mm)	-	-	-
H	inch(mm)	-	-	-
Net Weight	lbs(kg)	126(57)	156(71)	161(73)
Gross Weight	lbs(kg)	148(67)	178(81)	183(83)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	3.67(0.104)	3.67(0.104)	3.67(0.104)

4 POLE

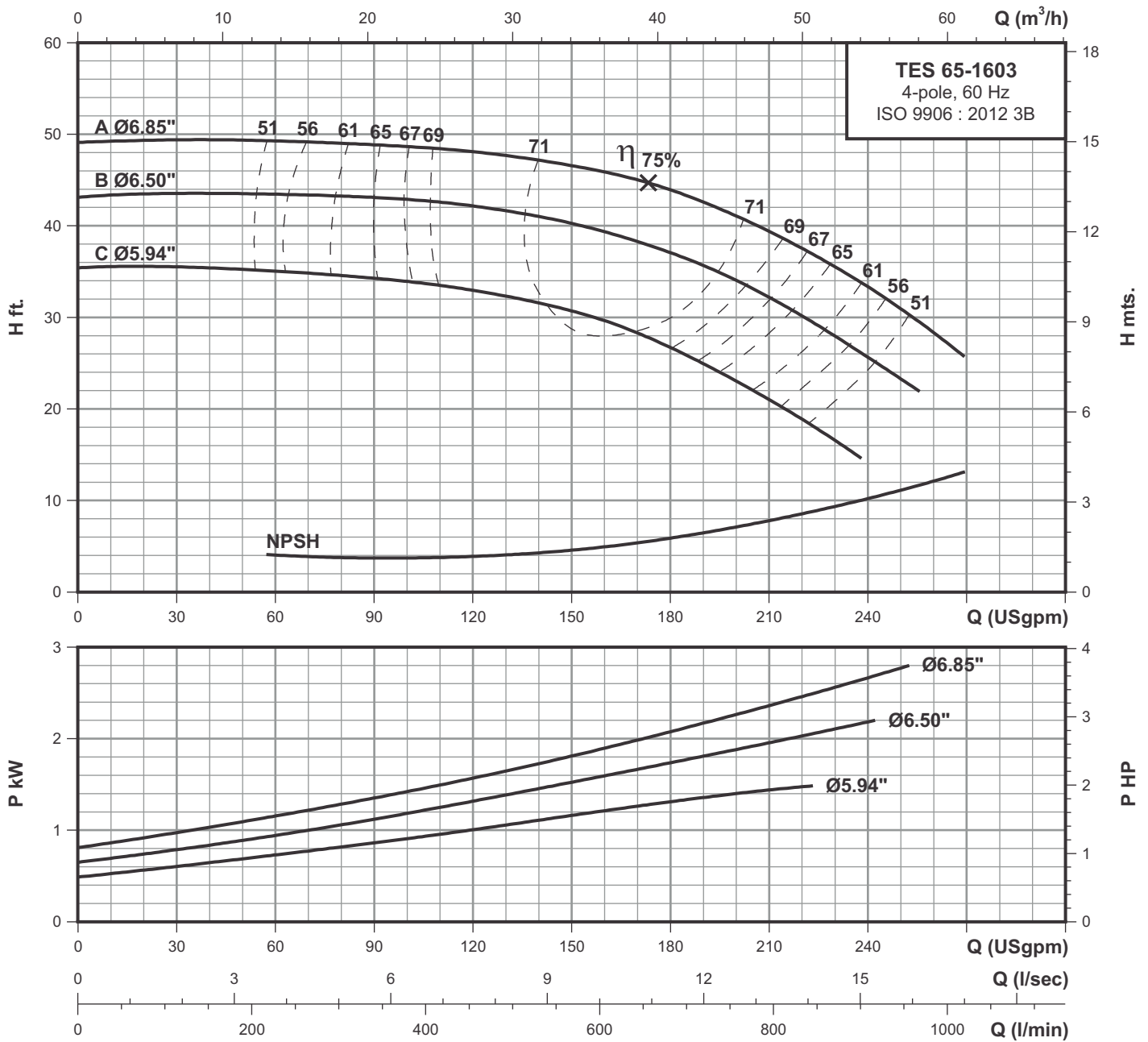


# Performance curves

## TES 65-1603

### Single-stage end-suction pumps

### 4-pole



### Performance data at n=1750 rpm

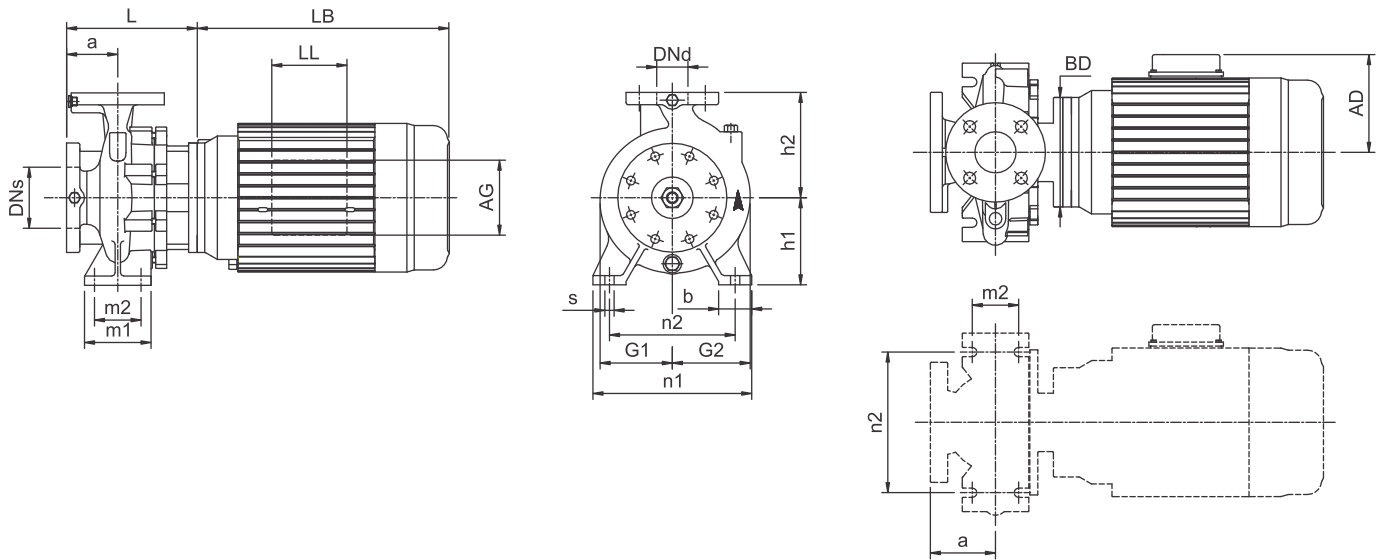
Model	Power		l/min USgpm	114	227	341	454	568	681	795	909
	HP	kW		30	60	90	120	150	180	210	240
TES 65-1603C	2.00	1.50	H ft.	35.5	35	34.3	33	30.7	26.8	21.1	-
TES 65-1603B	3.00	2.20		43.5	43.3	43	42	40.2	37	32.1	25.6
TES 65-1603A	4.00	3.00		49.3	49.2	48.9	48	46.6	43.8	39.4	33.3

# Technical data

## Single-stage end-suction pumps

# TES 65-160L3

## 4-pole



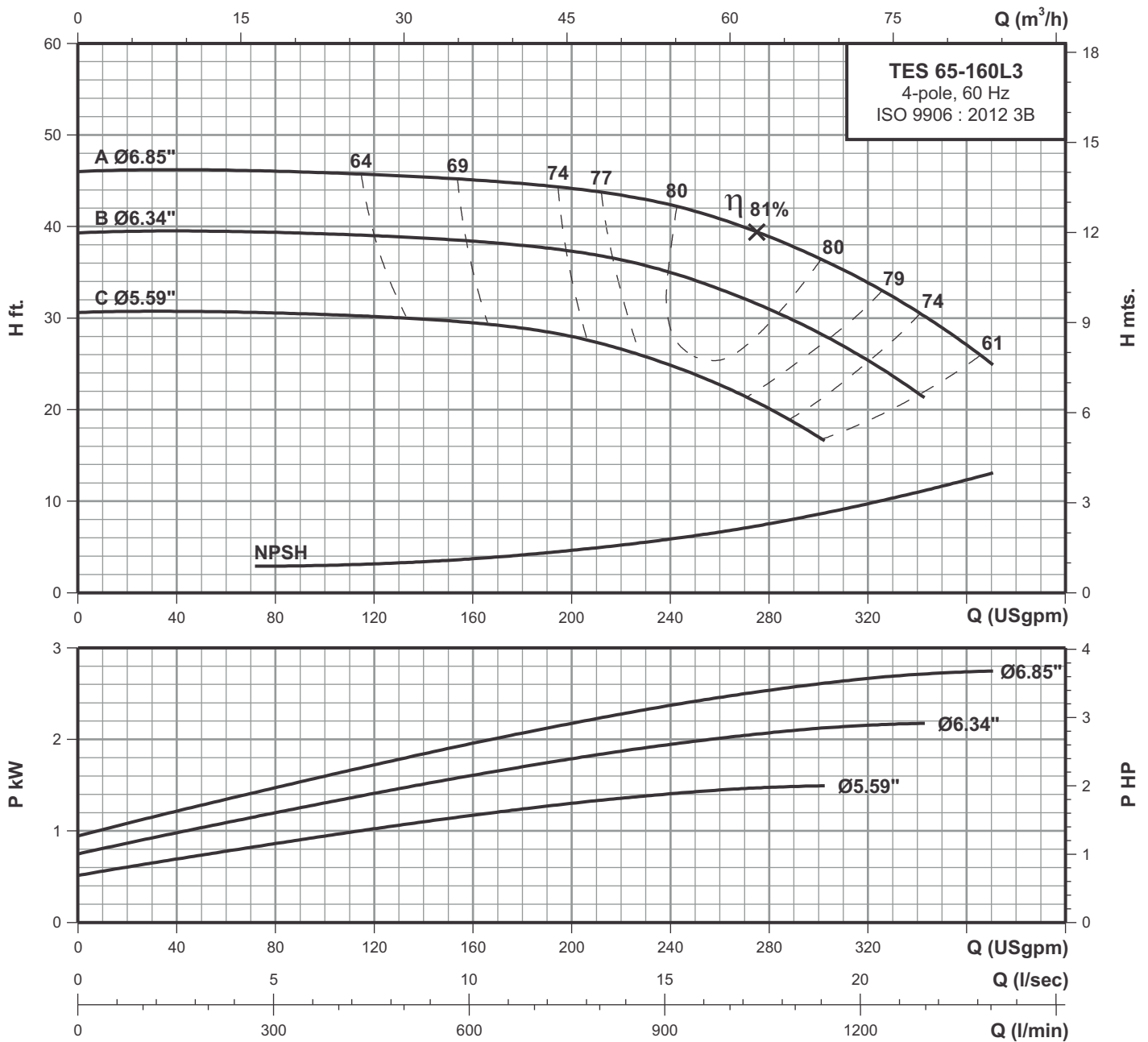
Power	(hp)	2	3	4
	(kw)	1.5	2.2	3
Frame		145JM	182JM	184JM
ANSI flange		125	125	125
Code for Impeller diameter		C	B	A
DN <sub>s</sub>	inch(mm)	3.00(80)	3.00(80)	3.00(80)
DN <sub>d</sub>	inch(mm)	2.50(65)	2.50(65)	2.50(65)
a	inch(mm)	3.94(100)	3.94(100)	3.94(100)
h <sub>2</sub>	inch(mm)	7.87(200)	7.87(200)	7.87(200)
L	inch(mm)	7.64(194)	7.64(194)	7.64(194)
h <sub>1</sub>	inch(mm)	6.30(160)	6.30(160)	6.30(160)
G <sub>1</sub>	inch(mm)	4.72(120)	4.72(120)	4.72(120)
G <sub>2</sub>	inch(mm)	5.51(140)	5.51(140)	5.51(140)
m <sub>1</sub>	inch(mm)	4.92(125)	4.92(125)	4.92(125)
m <sub>2</sub>	inch(mm)	3.74(95)	3.74(95)	3.74(95)
n <sub>1</sub>	inch(mm)	11.02(280)	11.02(280)	11.02(280)
n <sub>2</sub>	inch(mm)	8.35(212)	8.35(212)	8.35(212)
b	inch(mm)	2.56(65)	2.56(65)	2.56(65)
s	inch(mm)	0.55(14)	0.55(14)	0.55(14)
D	inch(mm)	-	-	-
LB	inch(mm)	11.34(288)	13.31(338)	13.31(338)
AD	inch(mm)	4.92(125)	6.46(164)	6.46(164)
AG	inch(mm)	3.98(101)	3.98(101)	3.98(101)
LL	inch(mm)	3.39(86)	3.98(101)	3.98(101)
BD	inch(mm)	6.50(165)	6.50(165)	6.50(165)
BA	inch(mm)	-	-	-
2F	inch(mm)	-	-	-
2E	inch(mm)	-	-	-
H	inch(mm)	-	-	-
Net Weight	lbs(kg)	126(57)	156(71)	161(73)
Gross Weight	lbs(kg)	148(67)	178(81)	183(83)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	3.67(0.104)	3.67(0.104)	3.67(0.104)

4 POLE

# Performance curves

## TES 65-160L3 4-pole

Single-stage end-suction pumps



### Performance data at n=1750 rpm

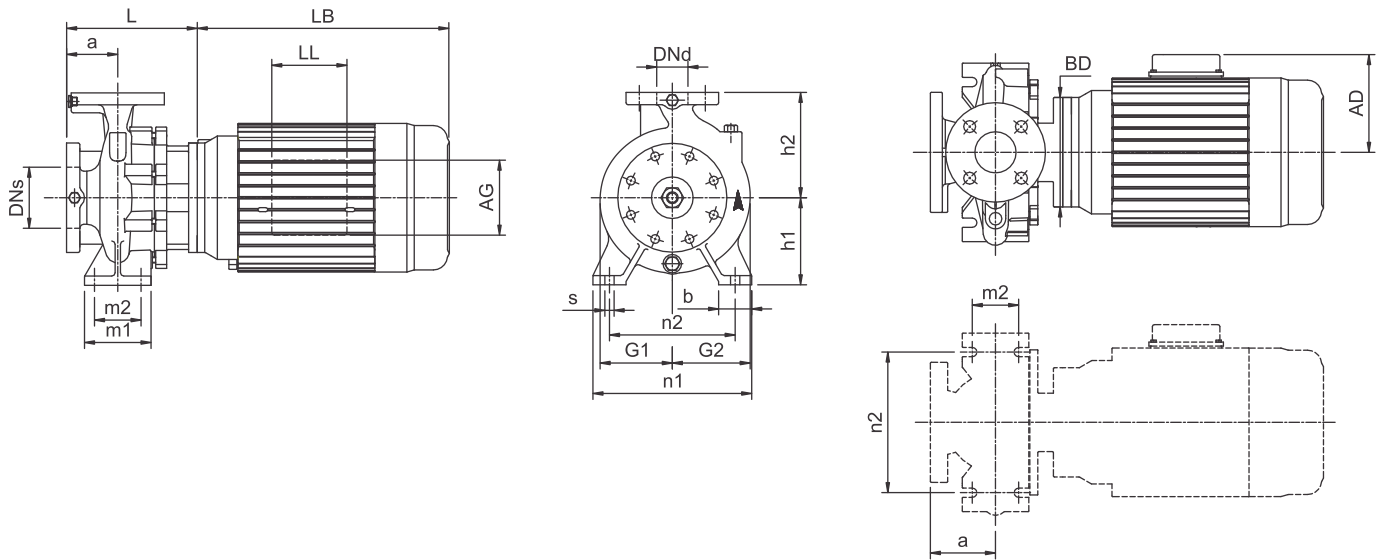
Model	Power		l/min USgpm	189	379	568	757	946	1136	1325
	HP	kW		50	100	150	200	250	300	350
TES 65-160L3C	2.00	1.50	H ft.	30.8	30.4	29.8	28	23.8	17	-
TES 65-160L3B	3.00	2.20		39.5	39.3	38.6	37.2	34	28.4	22
TES 65-160L3A	4.00	3.00		46.2	46	45.3	44	42.3	36.6	30.8

# Technical data

## Single-stage end-suction pumps

# TES 65-2003

# 4-pole



Power	(hp)	5	7.5	10
	(kw)	3.7	5.5	7.5
Frame		184JM	213JM	215JM
ANSI flange		125	125	125
Code for Impeller diameter		C	B	A
DN <sub>s</sub>	inch(mm)	3.00(80)	3.00(80)	3.00(80)
DN <sub>d</sub>	inch(mm)	2.50(65)	2.50(65)	2.50(65)
a	inch(mm)	3.94(100)	3.94(100)	3.94(100)
h <sub>2</sub>	inch(mm)	8.86(225)	8.86(225)	8.86(225)
L	inch(mm)	8.03(204)	8.03(204)	8.03(204)
h <sub>1</sub>	inch(mm)	7.09(180)	7.09(180)	7.09(180)
G <sub>1</sub>	inch(mm)	5.91(150)	5.91(150)	5.91(150)
G <sub>2</sub>	inch(mm)	6.81(173)	6.81(173)	6.81(173)
m <sub>1</sub>	inch(mm)	4.92(125)	4.92(125)	4.92(125)
m <sub>2</sub>	inch(mm)	3.74(95)	3.74(95)	3.74(95)
n <sub>1</sub>	inch(mm)	12.60(320)	12.60(320)	12.60(320)
n <sub>2</sub>	inch(mm)	9.84(250)	9.84(250)	9.84(250)
b	inch(mm)	2.56(65)	2.56(65)	2.56(65)
s	inch(mm)	0.55(14)	0.55(14)	0.55(14)
D	inch(mm)	-	-	-
LB	inch(mm)	13.31(338)	14.92(379)	16.42(417)
AD	inch(mm)	6.46(164)	7.40(188)	7.40(188)
AG	inch(mm)	3.98(101)	5.16(131)	5.16(131)
LL	inch(mm)	3.98(101)	5.16(131)	5.16(131)
BD	inch(mm)	6.50(165)	8.86(225)	8.86(225)
BA	inch(mm)	-	-	-
2F	inch(mm)	-	-	-
2E	inch(mm)	-	-	-
H	inch(mm)	-	-	-
Net Weight	lbs(kg)	180(82)	244(111)	269(122)
Gross Weight	lbs(kg)	202(92)	266(121)	291(132)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	7.93(0.225)	7.93(0.225)	7.93(0.225)

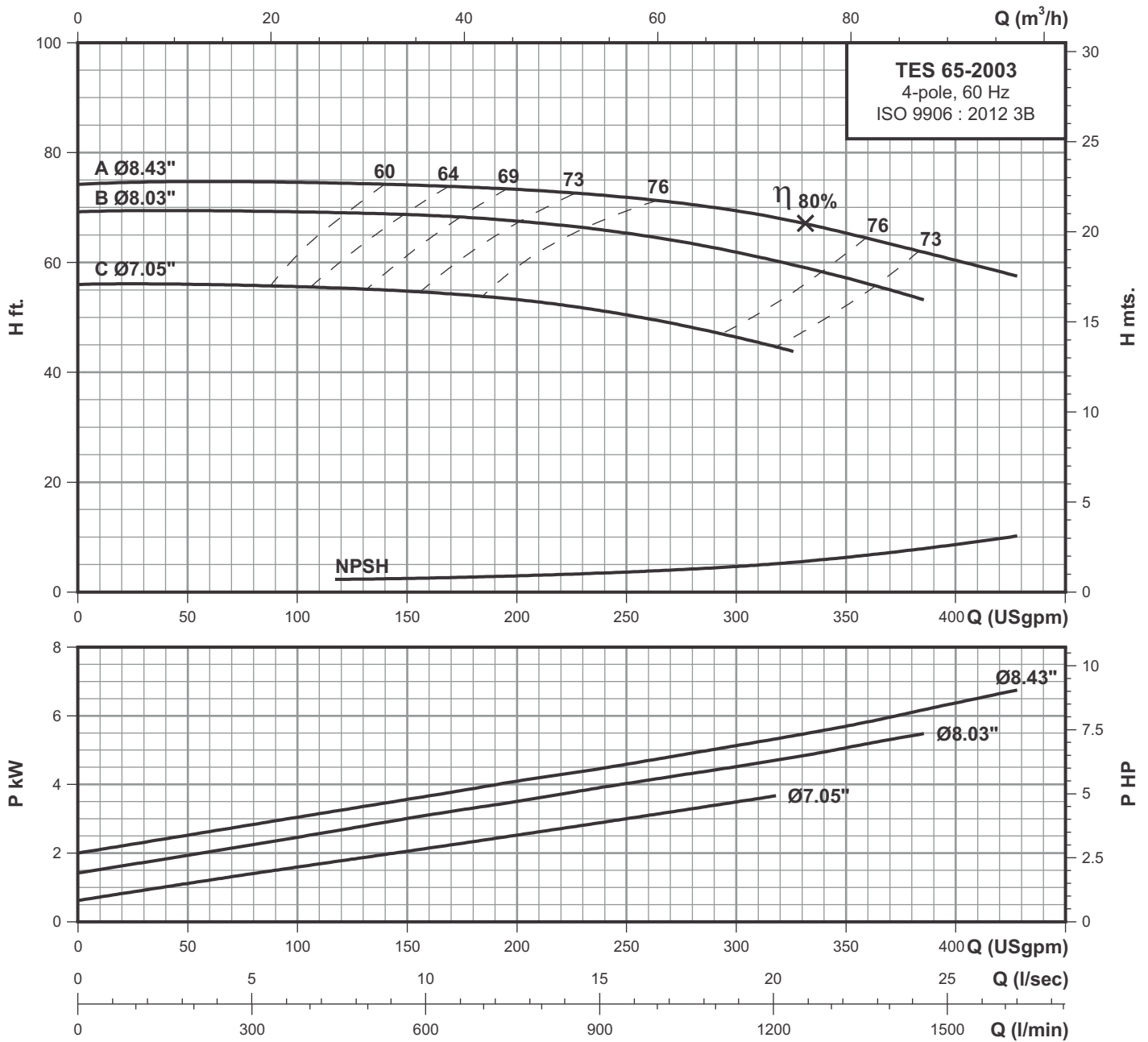
4 POLE

# Performance curves

Single-stage end-suction pumps

## TES 65-2003

### 4-pole



**4 POLE**

### Performance data at n=1750 rpm

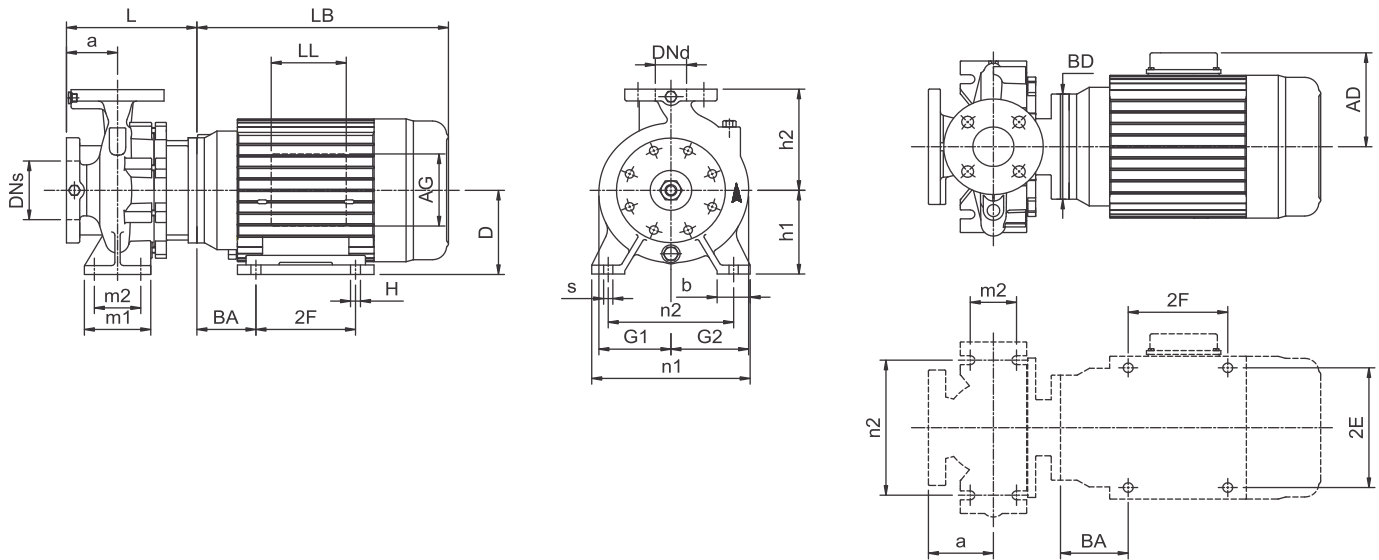
Model	Power		l/min USgpm	189	379	568	757	946	1136	1325	1514
	HP	kW		50	100	150	200	250	300	350	400
TES 65-2003C	5.00	3.70	H ft.	56	55.4	54.9	53.2	50.3	46.4	-	-
TES 65-2003B	7.50	5.50		69.3	69	68.7	67.6	65.3	61.7	57.1	-
TES 65-2003A	10.0	7.50		74.7	74.4	74.1	73.3	71.9	69.3	65.3	60.6

# Technical data

## Single-stage end-suction pumps

# TES 65-2503

## 4-pole



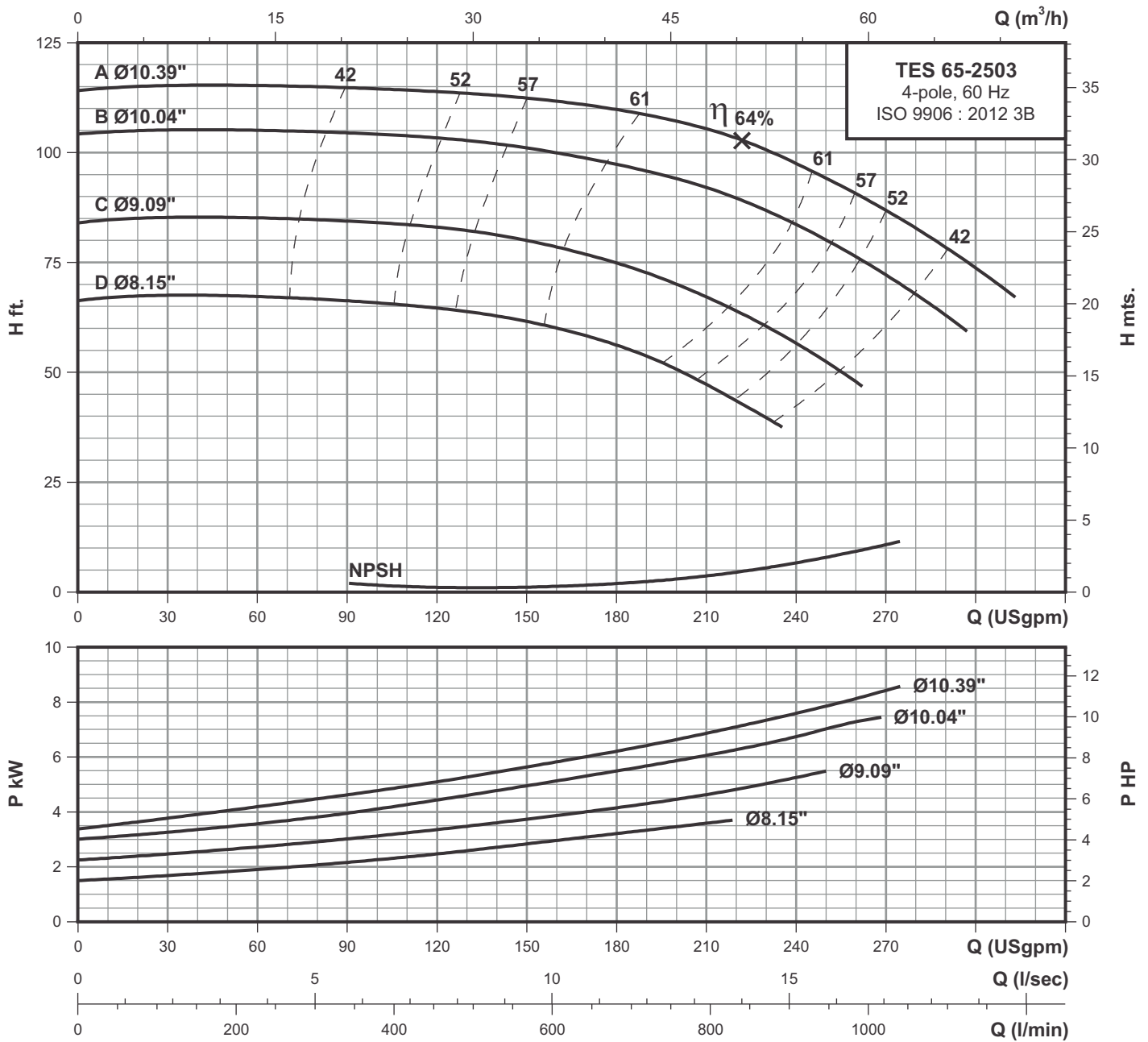
Power	(hp)	5	7.5	10	15
	(kw)	3.7	5.5	7.5	11
Frame		184JM	213JM	215JM	254JM
ANSI flange		125	125	125	125
Code for Impeller diameter		D	C	B	A
DNs	inch(mm)	3.00(80)	3.00(80)	3.00(80)	3.00(80)
Dnd	inch(mm)	2.50(65)	2.50(65)	2.50(65)	2.50(65)
a	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
h2	inch(mm)	9.84(250)	9.84(250)	9.84(250)	9.84(250)
L	inch(mm)	8.31(211)	8.31(211)	8.31(211)	9.13(232)
h1	inch(mm)	7.87(200)	7.87(200)	7.87(200)	7.87(200)
G1	inch(mm)	6.50(165)	6.50(165)	6.50(165)	6.50(165)
G2	inch(mm)	7.20(183)	7.20(183)	7.20(183)	7.20(183)
m1	inch(mm)	6.30(160)	6.30(160)	6.30(160)	6.30(160)
m2	inch(mm)	4.72(120)	4.72(120)	4.72(120)	4.72(120)
n1	inch(mm)	14.17(360)	14.17(360)	14.17(360)	14.17(360)
n2	inch(mm)	11.02(280)	11.02(280)	11.02(280)	11.02(280)
b	inch(mm)	3.15(80)	3.15(80)	3.15(80)	3.15(80)
s	inch(mm)	0.71(18)	0.71(18)	0.71(18)	0.71(18)
D	inch(mm)	-	-	-	6.25(159)
LB	inch(mm)	13.31(338)	14.92(379)	16.42(417)	19.17(487)
AD	inch(mm)	6.46(164)	7.40(188)	7.40(188)	9.49(241)
AG	inch(mm)	3.98(101)	5.16(131)	5.16(131)	6.73(171)
LL	inch(mm)	3.98(101)	5.16(131)	5.16(131)	5.98(152)
BD	inch(mm)	6.50(165)	8.86(225)	8.86(225)	10.00(254)
BA	inch(mm)	-	-	-	4.25(108)
2F	inch(mm)	-	-	-	8.25(210)
2E	inch(mm)	-	-	-	10.00(254)
H	inch(mm)	-	-	-	0.53(13.5)
Net Weight	lbs(kg)	216(98)	281(128)	306(139)	382(174)
Gross Weight	lbs(kg)	238(108)	303(138)	328(149)	519(236)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	7.93(0.225)	7.93(0.225)	7.93(0.225)	15.77(0.447)

# Performance curves

Single-stage end-suction pumps

## TES 65-2503

### 4-pole



**4 POLE**

### Performance data at n=1750 rpm

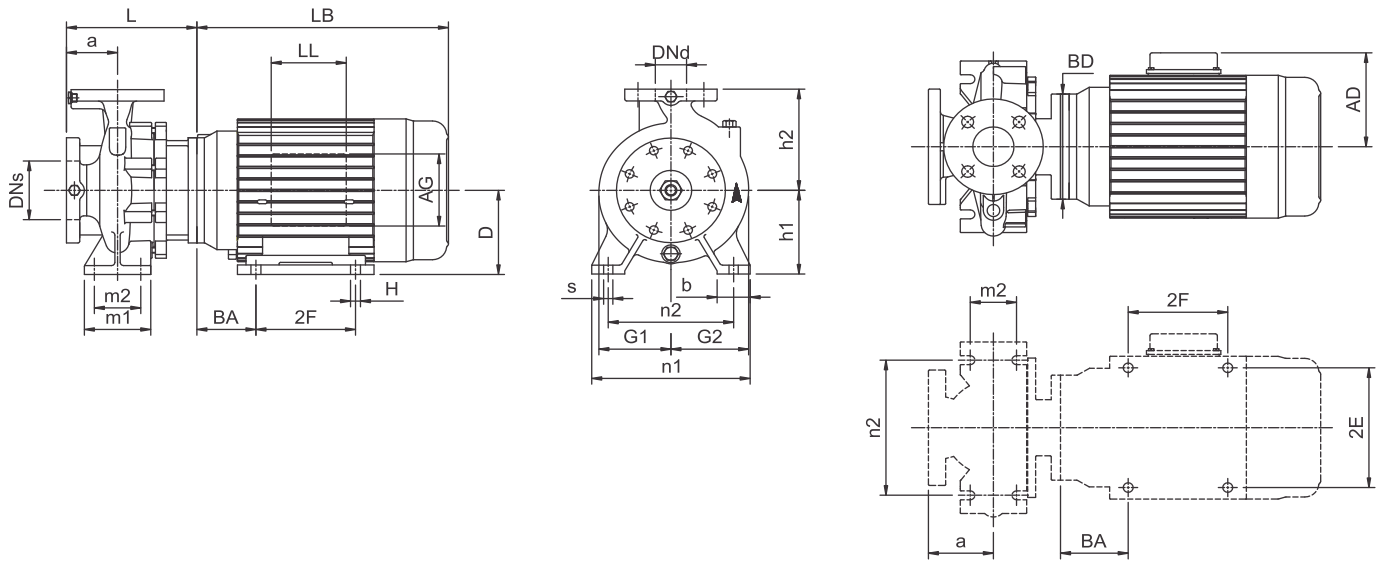
Model	Power		l/min USgpm	114	227	341	454	568	681	795	909	1022	1136
	HP	kW		30	60	90	120	150	180	210	240	270	300
TES 65-2503D	5.00	3.70	H ft.	67.3	67.3	66.3	64.4	61.5	56.1	47.3	-	-	-
TES 65-2503C	7.50	5.50		85.2	85.2	84.5	83	80.1	75	67	56.4	-	-
TES 65-2503B	10.0	7.50		105.2	105.2	104.5	103.4	100.8	97.2	92.1	83.7	72.1	-
TES 65-2503A	15.0	11.0		115.4	115.4	114.7	113.9	112.5	109.5	105.5	97.5	87	74

# Technical data

## Single-stage end-suction pumps

# TES 65-3153

## 4-pole



Power	(hp)	15	20	25	30
	(kw)	11	15	18.5	22
Frame		254JM	256JM	284JM	286JM
ANSI flange		125	125	125	125
Code for Impeller diameter		D	C	B	A
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)	10.12(257)	10.12(257)	10.12(257)	10.12(257)
h1	inch(mm)	8.86(225)	8.86(225)	8.86(225)	8.86(225)
G1	inch(mm)	7.95(202)	7.95(202)	7.95(202)	7.95(202)
G2	inch(mm)	8.66(220)	8.66(220)	8.66(220)	8.66(220)
m1	inch(mm)	6.30(160)	6.30(160)	6.30(160)	6.30(160)
m2	inch(mm)	4.72(120)	4.72(120)	4.72(120)	4.72(120)
n1	inch(mm)	15.75(400)	15.75(400)	15.75(400)	15.75(400)
n2	inch(mm)	12.40(315)	12.40(315)	12.40(315)	12.40(315)
b	inch(mm)	3.15(80)	3.15(80)	3.15(80)	3.15(80)
s	inch(mm)	0.71(18)	0.71(18)	0.71(18)	0.71(18)
D	inch(mm)	6.25(159)	6.25(159)	7.00(178)	7.00(178)
LB	inch(mm)	19.17(487)	20.83(529)	23.70(602)	25.24(641)
AD	inch(mm)	9.49(241)	9.49(241)	11.57(294)	11.57(294)
AG	inch(mm)	6.73(171)	6.73(171)	10.35(263)	10.35(263)
LL	inch(mm)	5.98(152)	5.98(152)	7.68(195)	7.68(195)
BD	inch(mm)	10.00(254)	10.00(254)	14.00(356)	14.00(356)
BA	inch(mm)	4.25(108)	4.25(108)	4.76(121)	4.76(121)
2F	inch(mm)	8.25(210)	10.00(254)	9.50(241)	11.00(279)
2E	inch(mm)	10.00(254)	10.00(254)	11.00(279)	11.00(279)
H	inch(mm)	0.53(13.5)	0.53(13.5)	0.53(13.5)	0.53(13.5)
Net Weight	lbs(kg)	414(188)	461(209)	649(295)	684(311)
Gross Weight	lbs(kg)	546(248)	593(269)	812(369)	847(385)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	15.22(0.431)	15.22(0.431)	21.01(0.595)	21.01(0.595)

4 POLE

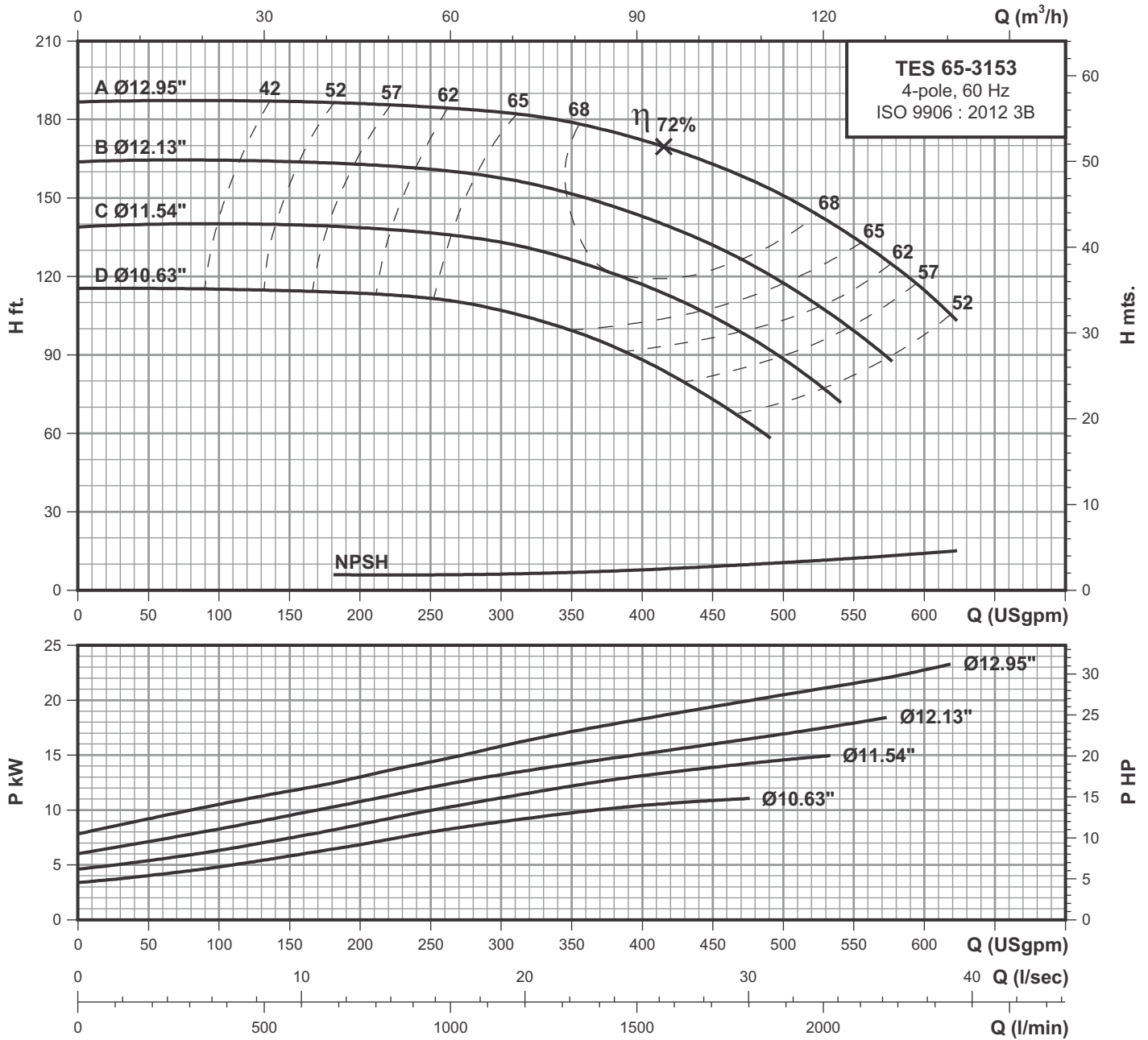


# Performance curves

## TES 65-3153

### Single-stage end-suction pumps

### 4-pole



### Performance data at n=1750 rpm

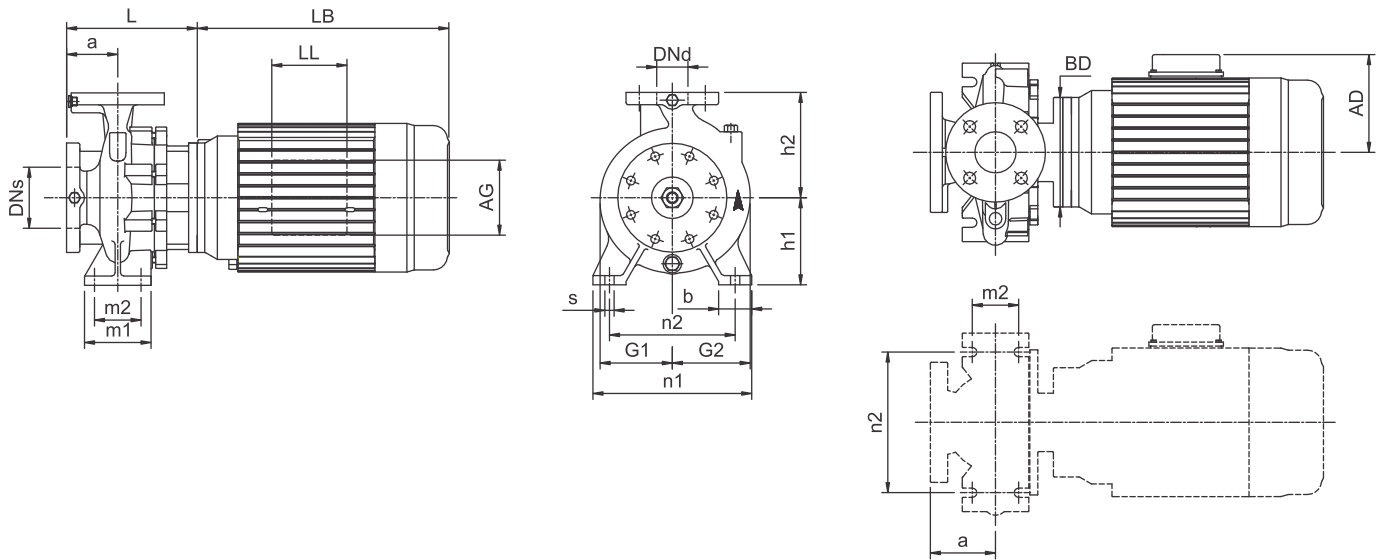
Model	Power		l/min USgpm	379	568	757	946	1136	1325	1514	1703	1893	2082	2271
	HP	kW		100	150	200	250	300	350	400	450	500	550	600
TES 65-3153D	15.0	11.0	H ft.	114.9	114.3	113.7	111.5	107.1	99.3	87.7	72.7	-	-	-
TES 65-3153C	20.0	15.0		139.8	139.8	138.7	136.5	133.1	126.5	117	104.8	88.8	-	-
TES 65-3153B	25.0	18.5		164.2	163.7	162.5	161	157.6	151.4	142.6	132	117.6	99.3	-
TES 65-3153A	30.0	22.0		187	187	185.8	184.8	182.5	179.2	172	163.1	150.9	134.8	114.3

# Technical data

## Single-stage end-suction pumps

# TES 80-1603

## 4-pole



Power	(hp)	3	4	5
	(kw)	2.2	3	3.7
Frame		182JM	184JM	184JM
ANSI flange		125	125	125
Code for Impeller diameter		C	B	A
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)	9.02(229)	9.02(229)	9.02(229)
h1	inch(mm)	7.09(180)	7.09(180)	7.09(180)
G1	inch(mm)	5.20(132)	5.20(132)	5.20(132)
G2	inch(mm)	6.18(157)	6.18(157)	6.18(157)
m1	inch(mm)	4.92(125)	4.92(125)	4.92(125)
m2	inch(mm)	3.74(95)	3.74(95)	3.74(95)
n1	inch(mm)	12.60(320)	12.60(320)	12.60(320)
n2	inch(mm)	9.84(250)	9.84(250)	9.84(250)
b	inch(mm)	2.56(65)	2.56(65)	2.56(65)
s	inch(mm)	0.55(14)	0.55(14)	0.55(14)
D	inch(mm)	-	-	-
LB	inch(mm)	13.31(338)	13.31(338)	13.31(338)
AD	inch(mm)	6.46(164)	6.46(164)	6.46(164)
AG	inch(mm)	3.98(101)	3.98(101)	3.98(101)
LL	inch(mm)	3.98(101)	3.98(101)	3.98(101)
BD	inch(mm)	6.50(165)	6.50(165)	6.50(165)
BA	inch(mm)	-	-	-
2F	inch(mm)	-	-	-
2E	inch(mm)	-	-	-
H	inch(mm)	-	-	-
Net Weight	lbs(kg)	176(80)	180(82)	185(84)
Gross Weight	lbs(kg)	198(90)	202(92)	207(94)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	7.93(0.225)	7.93(0.225)	7.93(0.225)

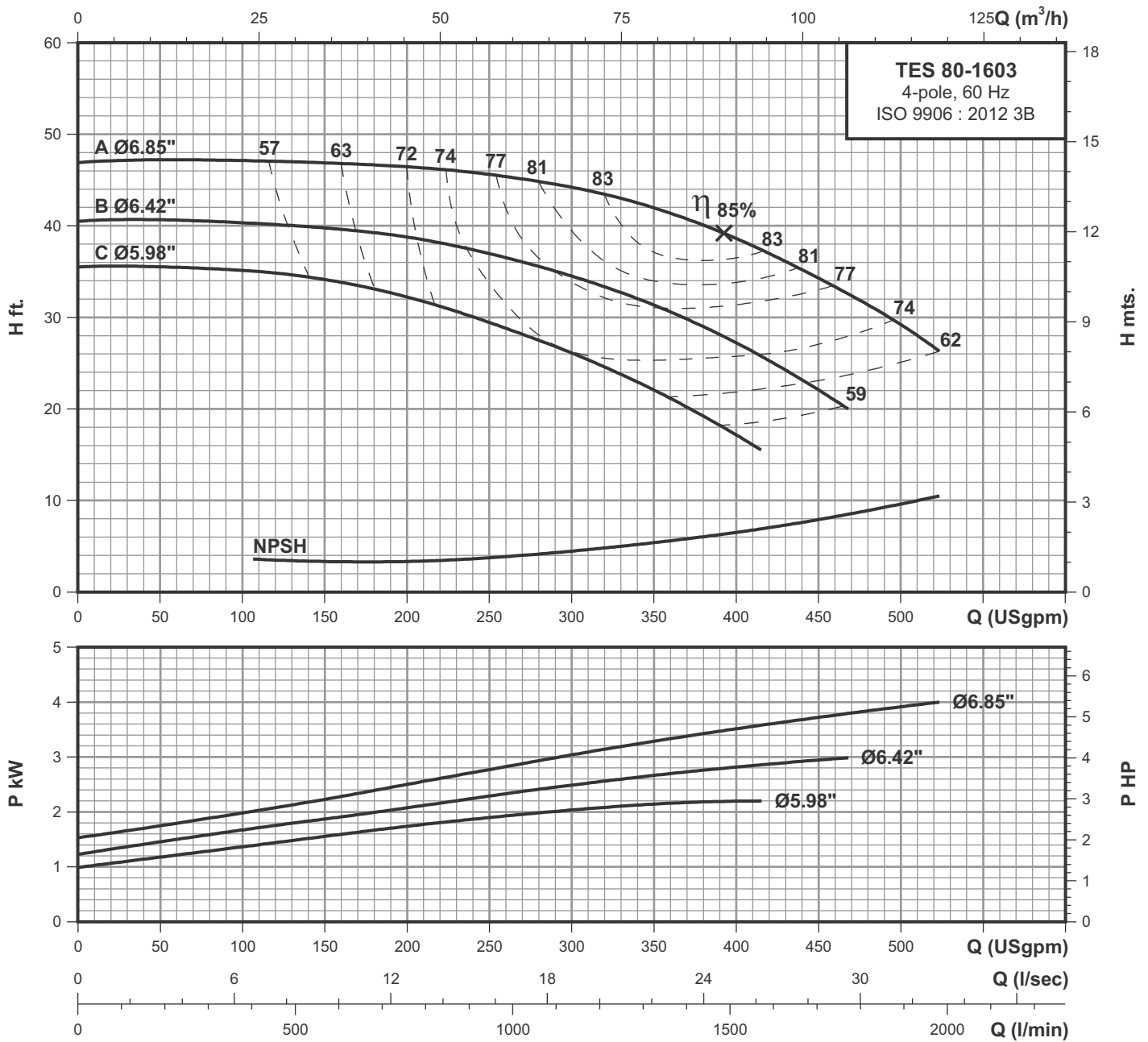
4 POLE

# Performance curves

## TES 80-1603

### Single-stage end-suction pumps

### 4-pole



**4 POLE**

### Performance data at n=1750 rpm

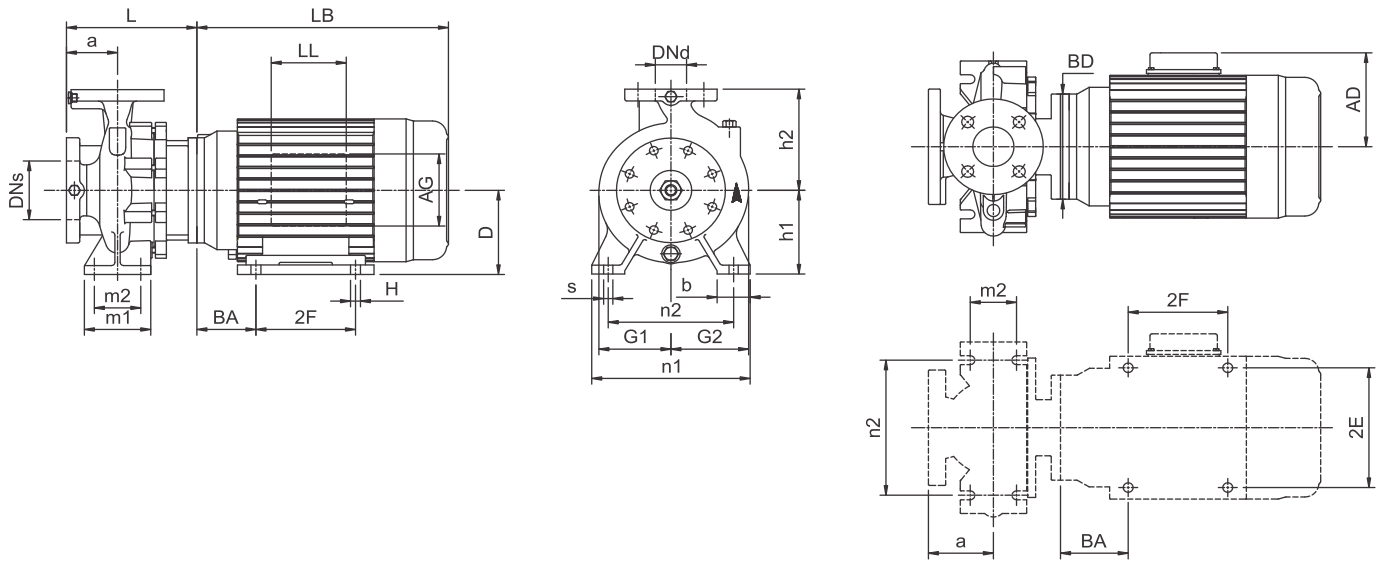
Model	Power		l/min USgpm	189	379	568	757	946	1136	1325	1514	1703	1893
	HP	kW		50	100	150	200	250	300	350	400	450	500
TES 80-1603C	3.00	2.20	H ft.	35.4	35.1	34.1	32.2	29.5	26	22.1	17.1	-	-
TES 80-1603B	4.00	3.00		40.6	40.3	39.7	38.7	36.9	34.4	31.3	27.2	22.1	-
TES 80-1603A	5.00	3.70		47.1	47.1	46.8	46.4	45.5	44.3	42	38.6	34.3	29.2

# Technical data

## Single-stage end-suction pumps

# TES 80-2003

# 4-pole



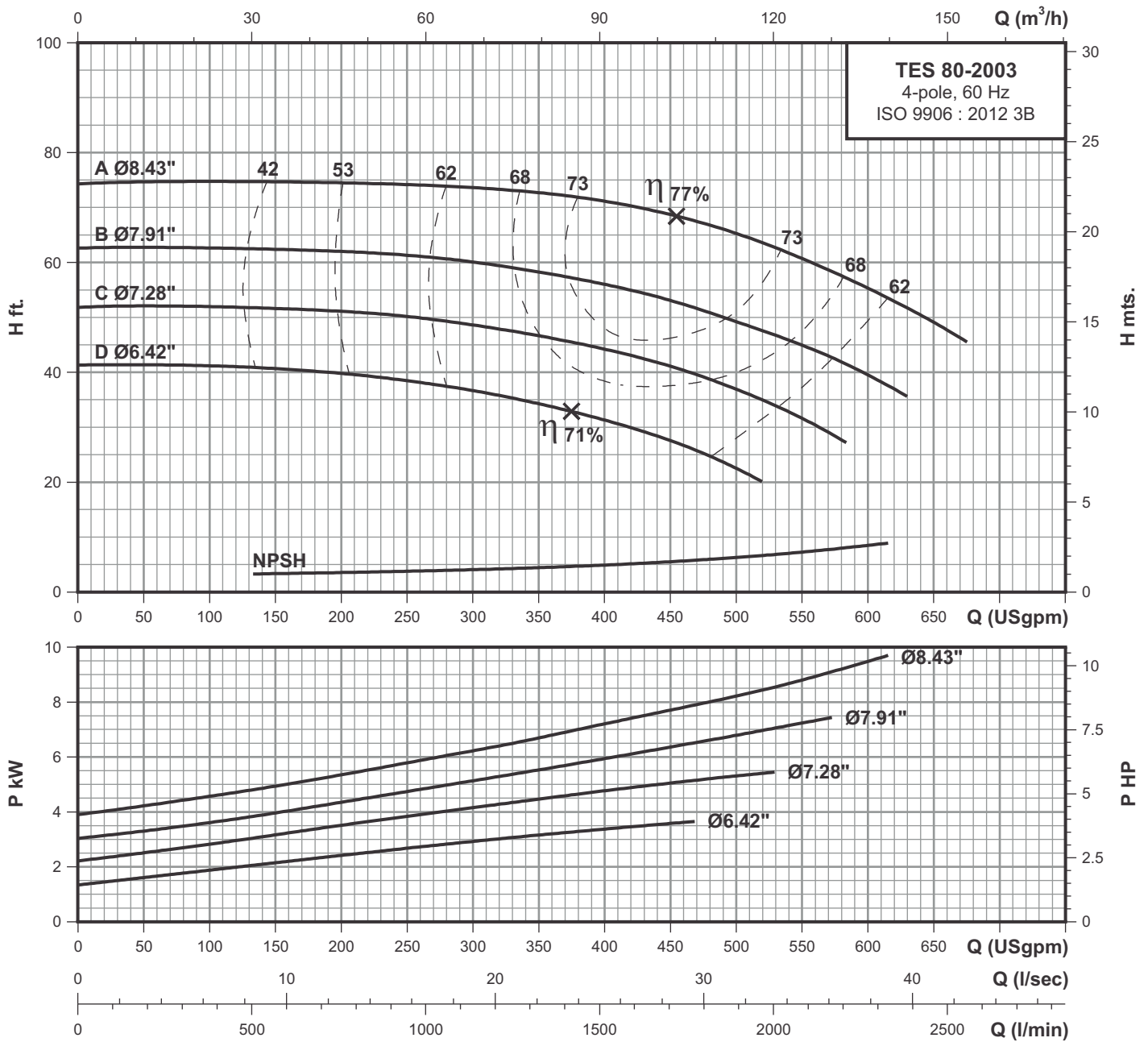
Power	(hp)	5	7.5	10	15
	(kw)	3.7	5.5	7.5	11
Frame		184JM	213JM	215JM	254JM
ANSI flange		125	125	125	125
Code for Impeller diameter		D	C	B	A
DNs	inch(mm)	4.00(100)	4.00(100)	4.00(100)	4.00(100)
Dnd	inch(mm)	3.00(80)	3.00(80)	3.00(80)	3.00(80)
a	inch(mm)	4.92(125)	4.92(125)	4.92(125)	4.92(125)
h2	inch(mm)	9.84(250)	9.84(250)	9.84(250)	9.84(250)
L	inch(mm)	9.45(240)	9.45(240)	9.45(240)	10.08(256)
h1	inch(mm)	7.09(180)	7.09(180)	7.09(180)	7.09(180)
G1	inch(mm)	6.10(155)	6.10(155)	6.10(155)	6.10(155)
G2	inch(mm)	7.32(186)	7.32(186)	7.32(186)	7.32(186)
m1	inch(mm)	4.92(125)	4.92(125)	4.92(125)	4.92(125)
m2	inch(mm)	3.74(95)	3.74(95)	3.74(95)	3.74(95)
n1	inch(mm)	13.58(345)	13.58(345)	13.58(345)	13.58(345)
n2	inch(mm)	11.02(280)	11.02(280)	11.02(280)	11.02(280)
b	inch(mm)	2.56(65)	2.56(65)	2.56(65)	2.56(65)
s	inch(mm)	0.55(14)	0.55(14)	0.55(14)	0.55(14)
D	inch(mm)	-	-	-	6.25(159)
LB	inch(mm)	13.31(338)	14.92(379)	16.42(417)	19.17(487)
AD	inch(mm)	6.46(164)	7.40(188)	7.40(188)	9.49(241)
AG	inch(mm)	3.98(101)	5.16(131)	5.16(131)	6.73(171)
LL	inch(mm)	3.98(101)	5.16(131)	5.16(131)	5.98(152)
BD	inch(mm)	6.50(165)	8.86(225)	8.86(225)	10.00(254)
BA	inch(mm)	-	-	-	4.25(108)
2F	inch(mm)	-	-	-	8.25(210)
2E	inch(mm)	-	-	-	10.00(254)
H	inch(mm)	-	-	-	0.53(13.5)
Net Weight	lbs(kg)	201(91)	264(120)	290(132)	372(169)
Gross Weight	lbs(kg)	223(101)	286(130)	312(142)	495(225)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	7.93(0.225)	8.86(0.251)	8.86(0.251)	13.35(0.378)

# Performance curves

## Single-stage end-suction pumps

# TES 80-2003

# 4-pole



### Performance data at n=1750 rpm

Model	Power		l/min USgpm	568	757	946	1136	1325	1514	1703	1893	2082	2271	2461
	HP	kW		150	200	250	300	350	400	450	500	550	600	650
TES 80-2003D	5.00	3.70	H ft.	40.6	40	38.4	36.7	34.3	31.3	27.7	22.3	-	-	-
TES 80-2003C	7.50	5.50		51.6	51.1	50.2	48.7	46.7	44.3	41.1	37	31.6	-	-
TES 80-2003B	10.0	7.50		62.4	62	61.4	60.1	58.2	56	53.1	49.2	45	39.6	-
TES 80-2003A	15.0	11.0		74.6	74.3	74.1	73.6	72.7	71.1	68.7	65.3	60.7	55.3	49.2

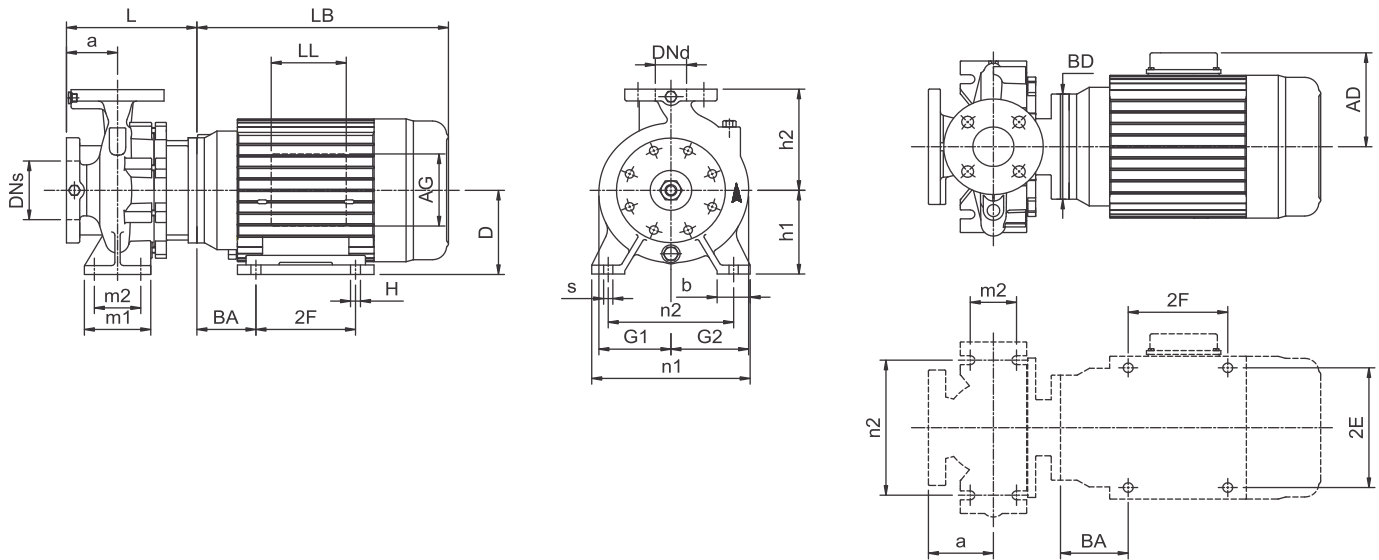
**4 POLE**

# Technical data

## Single-stage end-suction pumps

# TES 80-2503

# 4-pole



Power	(hp)	15	20	25
	(kw)	11	15	18.5
Frame		254JM	256JM	284JM
ANSI flange		125	125	125
Code for Impeller diameter		C	B	A
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)	10.12(257)	10.12(257)	10.12(257)
h1	inch(mm)	7.87(200)	7.87(200)	7.87(200)
G1	inch(mm)	7.01(178)	7.01(178)	7.01(178)
G2	inch(mm)	8.03(204)	8.03(204)	8.03(204)
m1	inch(mm)	6.30(160)	6.30(160)	6.30(160)
m2	inch(mm)	4.72(120)	4.72(120)	4.72(120)
n1	inch(mm)	15.75(400)	15.75(400)	15.75(400)
n2	inch(mm)	12.40(315)	12.40(315)	12.40(315)
b	inch(mm)	3.15(80)	3.15(80)	3.15(80)
s	inch(mm)	0.71(18)	0.71(18)	0.71(18)
D	inch(mm)	6.25(159)	6.25(159)	7.00(178)
LB	inch(mm)	19.17(487)	20.83(529)	23.70(602)
AD	inch(mm)	9.49(241)	9.49(241)	11.57(294)
AG	inch(mm)	6.73(171)	6.73(171)	10.35(263)
LL	inch(mm)	5.98(152)	5.98(152)	7.68(195)
BD	inch(mm)	10.00(254)	10.00(254)	14.00(356)
BA	inch(mm)	4.25(108)	4.25(108)	4.76(121)
2F	inch(mm)	8.25(210)	10.00(254)	9.50(241)
2E	inch(mm)	10.00(254)	10.00(254)	11.00(279)
H	inch(mm)	0.53(13.5)	0.53(13.5)	0.53(13.5)
Net Weight	lbs(kg)	394(179)	440(200)	628(285)
Gross Weight	lbs(kg)	526(239)	576(262)	791(359)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	15.22(0.431)	15.77(0.447)	21.01(0.595)

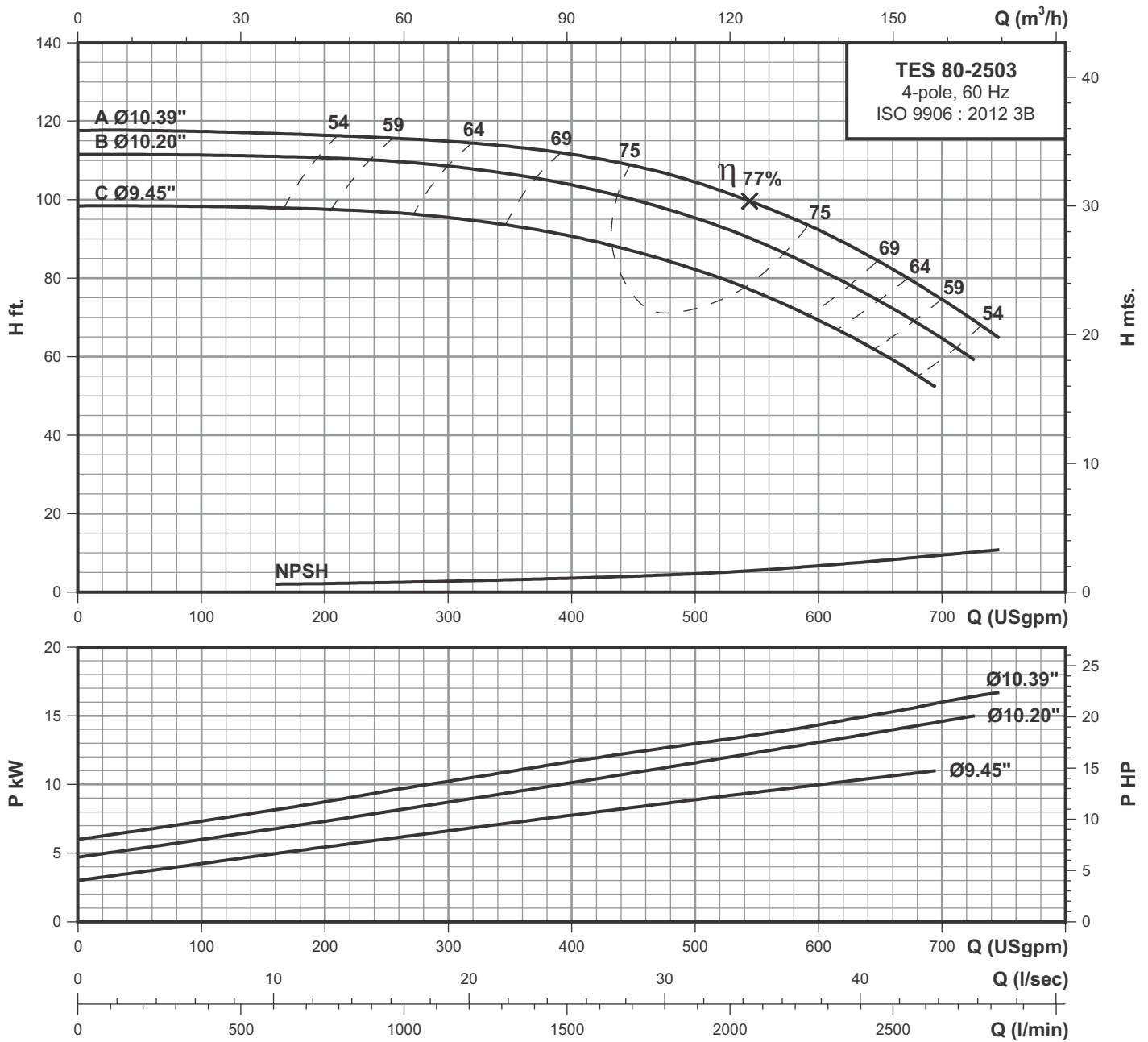
4 POLE

# Performance curves

Single-stage end-suction pumps

## TES 80-2503

### 4-pole



**4 POLE**

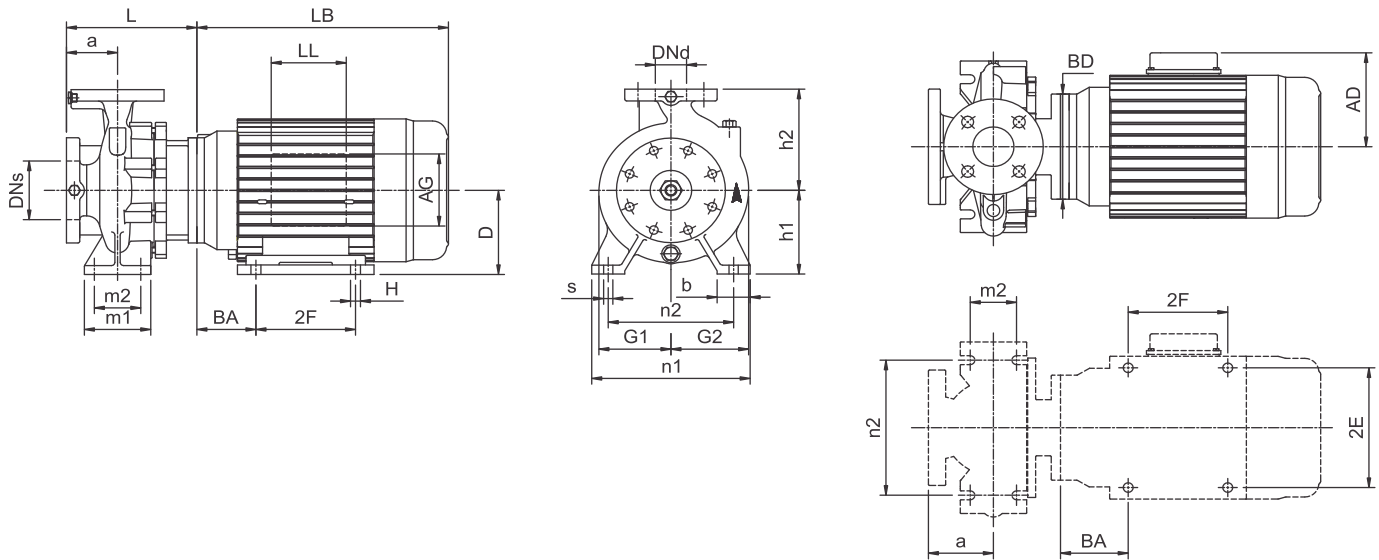
### Performance data at n=1750 rpm

Model	Power		l/min USgpm	379	757	1136	1514	1893	2271	2650
	HP	kW		100	200	300	400	500	600	700
TES 80-2503C	15.0	11.0	H ft.	98.2	97.6	95.5	90.6	82.2	69.3	-
TES 80-2503B	20.0	15.0		111.1	110.5	108.7	103.8	95.5	82.2	64.8
TES 80-2503A	25.0	18.5		117.4	116.4	115	111.5	104.5	92	74.5

# Technical data

## Single-stage end-suction pumps

# TES 65-250L3 4-pole



Power	(hp)	10	15
	(kw)	7.5	11
Frame		215JM	254JM
ANSI flange		125	125
Code for Impeller diameter		C	A
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)	8.31(211)	9.13(232)
h1	inch(mm)	7.87(200)	7.87(200)
G1	inch(mm)	6.81(173)	6.81(173)
G2	inch(mm)	7.72(196)	7.72(196)
m1	inch(mm)	6.30(160)	6.30(160)
m2	inch(mm)	4.72(120)	4.72(120)
n1	inch(mm)	14.17(360)	14.17(360)
n2	inch(mm)	11.02(280)	11.02(280)
b	inch(mm)	3.15(80)	3.15(80)
s	inch(mm)	0.71(18)	0.71(18)
D	inch(mm)	-	6.25(159)
LB	inch(mm)	16.42(417)	19.17(487)
AD	inch(mm)	7.40(188)	9.49(241)
AG	inch(mm)	5.16(131)	6.73(171)
LL	inch(mm)	5.16(131)	5.98(152)
BD	inch(mm)	8.86(225)	10.00(254)
BA	inch(mm)	-	4.25(108)
2F	inch(mm)	-	8.25(210)
2E	inch(mm)	-	10.00(254)
H	inch(mm)	-	0.53(13.5)
Net Weight	lbs(kg)	306(139)	382(174)
Gross Weight	lbs(kg)	328(149)	519(236)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	7.93(0.225)	15.77(0.447)

4 POLE

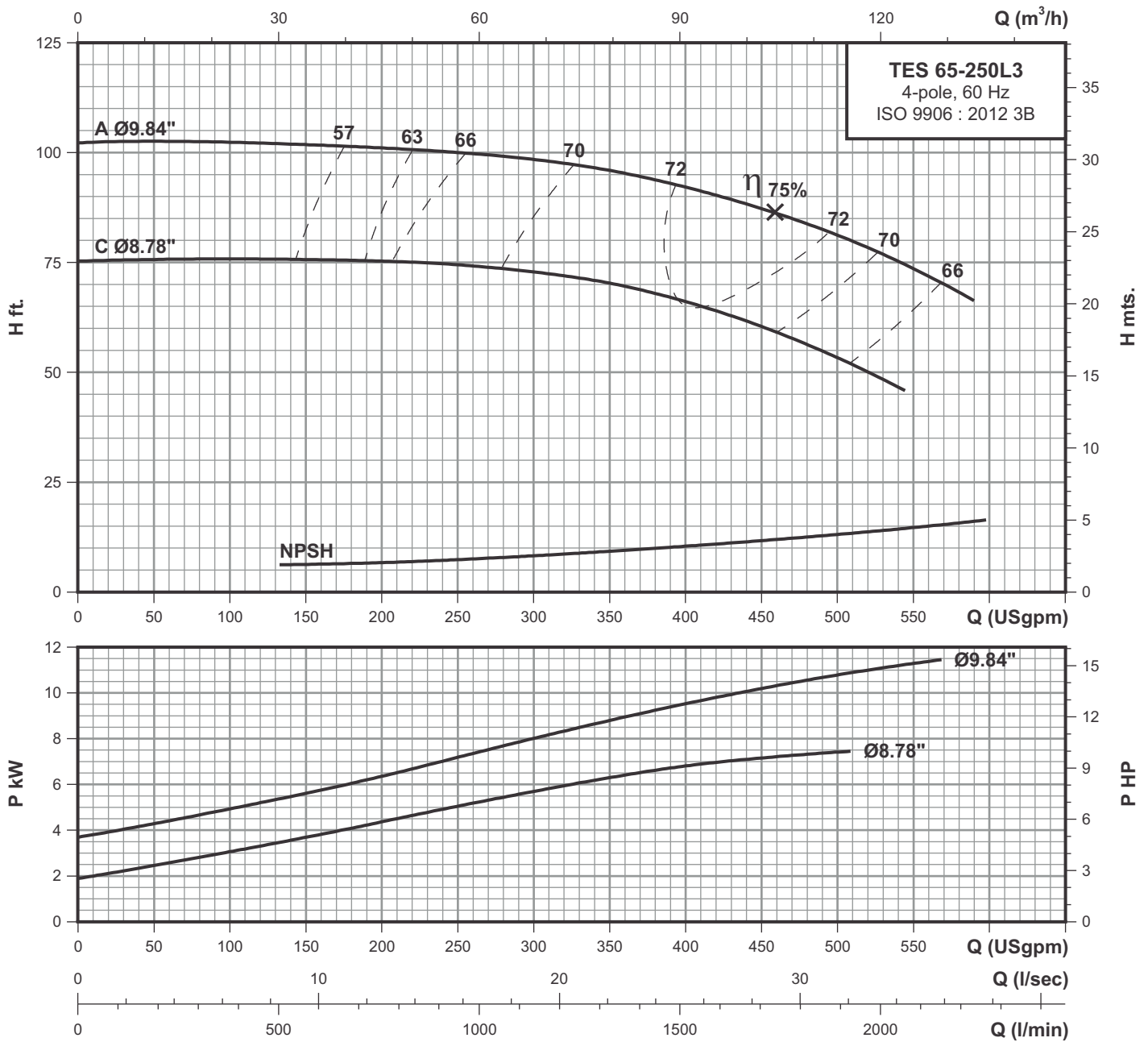


# Performance curves

## TES 65-250L3

### Single-stage end-suction pumps

### 4-pole



**4 POLE**

### Performance data at n=1750 rpm

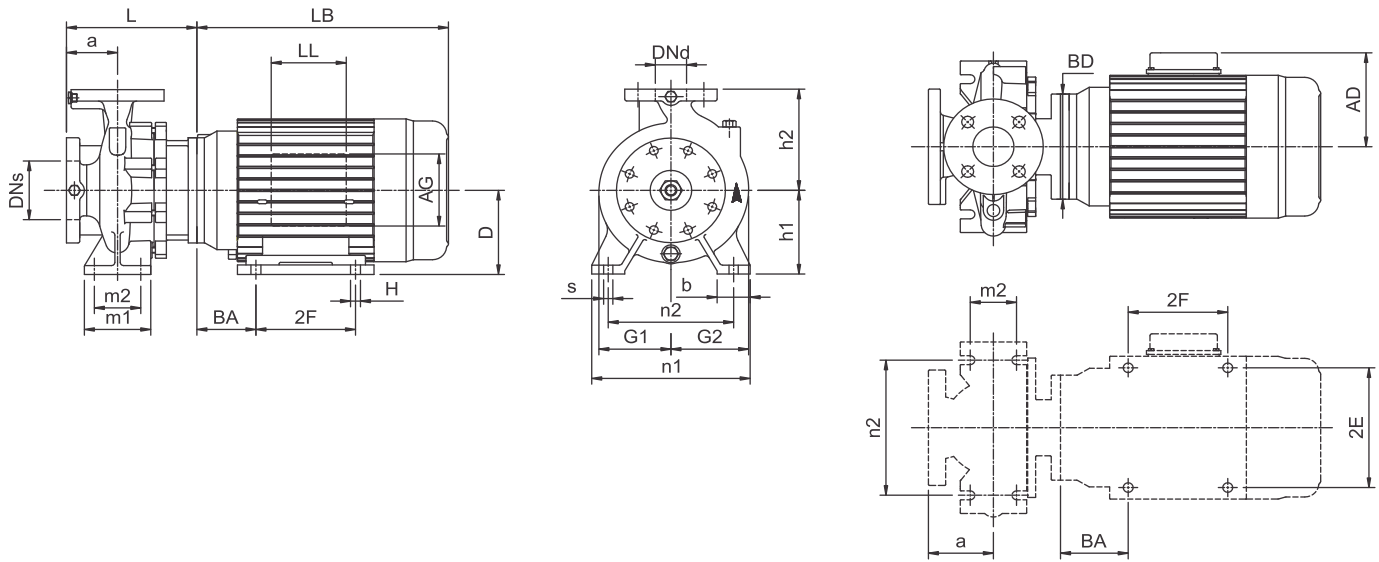
Model	Power		l/min USgpm	379	568	757	946	1136	1325	1514	1703	1893	2082
	HP	kW		100	150	200	250	300	350	400	450	500	550
TES 65-250L3C	10.0	7.50	H ft.	75.8	75.5	75.2	74.3	72.8	70.3	66.1	60.3	53.4	-
TES 65-250L3A	15.0	11.0		102.4	101.8	100.9	100	98.4	95.7	92.4	87.3	81.2	73.7

# Technical data

## Single-stage end-suction pumps

# TES 80-3153

## 4-pole



Power	(hp)	20	25	30	40
	(kw)	15	18.5	22	30
Frame		256JM	284JM	286JM	324JM
ANSI flange		125	125	125	125
Code for Impeller diameter		D	C	B	A
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)	10.12(257)	10.12(257)	10.12(257)	10.12(257)
h1	inch(mm)	9.84(250)	9.84(250)	9.84(250)	9.84(250)
G1	inch(mm)	8.03(204)	8.03(204)	8.03(204)	8.03(204)
G2	inch(mm)	8.94(227)	8.94(227)	8.94(227)	8.94(227)
m1	inch(mm)	6.30(160)	6.30(160)	6.30(160)	6.30(160)
m2	inch(mm)	4.72(120)	4.72(120)	4.72(120)	4.72(120)
n1	inch(mm)	15.75(400)	15.75(400)	15.75(400)	15.75(400)
n2	inch(mm)	12.40(315)	12.40(315)	12.40(315)	12.40(315)
b	inch(mm)	3.15(80)	3.15(80)	3.15(80)	3.15(80)
s	inch(mm)	0.71(18)	0.71(18)	0.71(18)	0.71(18)
D	inch(mm)	6.25(159)	7.00(178)	7.00(178)	8.00(203)
LB	inch(mm)	20.83(529)	23.70(602)	25.24(641)	27.09(688)
AD	inch(mm)	9.49(241)	11.57(294)	11.57(294)	12.05(306)
AG	inch(mm)	6.73(171)	10.35(263)	10.35(263)	10.35(263)
LL	inch(mm)	5.98(152)	7.68(195)	7.68(195)	7.68(195)
BD	inch(mm)	10.00(254)	14.00(356)	14.00(356)	14.00(356)
BA	inch(mm)	4.25(108)	4.76(121)	4.76(121)	5.25(133)
2F	inch(mm)	10.00(254)	9.50(241)	11.00(279)	10.5(267)
2E	inch(mm)	10.00(254)	11.00(279)	11.00(279)	12.5(318)
H	inch(mm)	0.53(13.5)	0.53(13.5)	0.53(13.5)	0.66(17)
Net Weight	lbs(kg)	466(212)	654(297)	689(313)	806(366)
Gross Weight	lbs(kg)	633(288)	817(371)	852(387)	967(439)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	22.35(0.633)	21.01(0.595)	21.01(0.595)	20.44(0.579)

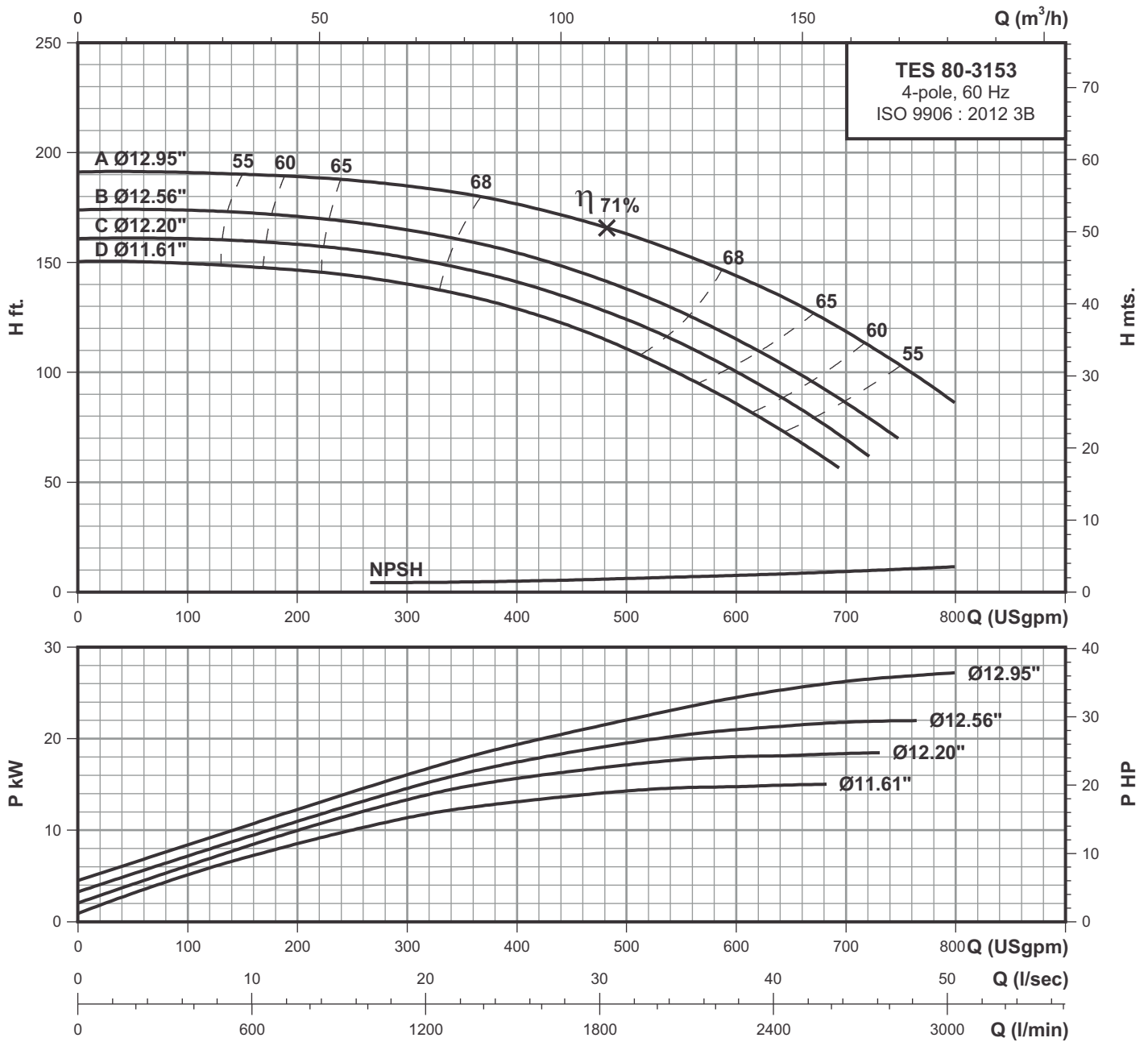
4 POLE

# Performance curves

Single-stage end-suction pumps

## TES 80-3153

### 4-pole



**4 POLE**

### Performance data at n=1750 rpm

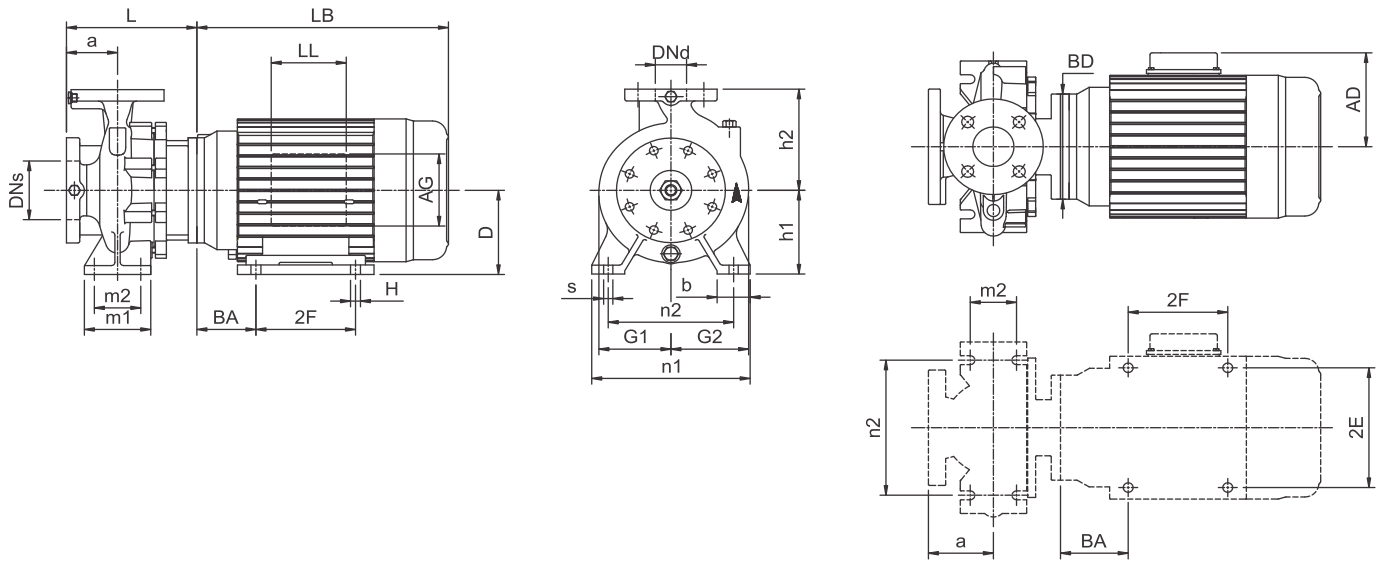
Model	Power		l/min USgpm	379	757	1136	1514	1893	2271	2650
	HP	kW		100	200	300	400	500	600	700
TES 80-3153D	20.0	15.0	H ft.	149.3	146.2	140.6	129.5	111	85.5	-
TES 80-3153C	25.0	18.5		160.5	158	152.4	141.2	124.6	100.4	69.4
TES 80-3153B	30.0	22.0		173.5	171	164.8	154.3	137.5	115.2	86.1
TES 80-3153A	40.0	30.0		190.8	189	185.2	177.2	163	144.3	118.3

# Technical data

## Single-stage end-suction pumps

# TES 80-4003

## 4-pole



Power	(hp)	40	50	60	75
	(kw)	30	37	45	55
Frame		324JM	326JM	364JM	365JM
ANSI flange		125	125	125	125
Code for Impeller diameter		D	C	B	A
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)	11.10(282)	11.10(282)	11.10(282)	11.10(282)
h1	inch(mm)	11.02(280)	11.02(280)	11.02(280)	11.02(280)
G1	inch(mm)	10.00(254)	10.00(254)	10.00(254)	10.00(254)
G2	inch(mm)	10.87(276)	10.87(276)	10.87(276)	10.87(276)
m1	inch(mm)	6.30(160)	6.30(160)	6.30(160)	6.30(160)
m2	inch(mm)	4.72(120)	4.72(120)	4.72(120)	4.72(120)
n1	inch(mm)	17.13(435)	17.13(435)	17.13(435)	17.13(435)
n2	inch(mm)	13.98(355)	13.98(355)	13.98(355)	13.98(355)
b	inch(mm)	3.15(80)	3.15(80)	3.15(80)	3.15(80)
s	inch(mm)	0.71(18)	0.71(18)	0.71(18)	0.71(18)
D	inch(mm)	8.00(203)	8.00(203)	9.00(229)	9.00(229)
LB	inch(mm)	27.09(688)	27.09(688)	27.56(700)	28.54(725)
AD	inch(mm)	12.05(306)	12.05(306)	12.91(328)	12.91(328)
AG	inch(mm)	10.35(263)	10.35(263)	10.35(263)	10.35(263)
LL	inch(mm)	7.68(195)	7.68(195)	7.68(195)	7.68(195)
BD	inch(mm)	14.00(356)	14.00(356)	14.00(356)	14.00(356)
BA	inch(mm)	5.25(133)	5.25(133)	5.86(149)	5.86(149)
2F	inch(mm)	10.50(267)	12.00(305)	11.25(286)	12.25(311)
2E	inch(mm)	12.50(318)	12.50(318)	14.00(356)	14.00(356)
H	inch(mm)	0.66(17)	0.66(17)	0.66(17)	0.66(17)
Net Weight	lbs(kg)	853(388)	902(410)	1001(455)	1104(502)
Gross Weight	lbs(kg)	1064(484)	1113(506)	1212(551)	1289(586)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	31.64(0.896)	31.64(0.896)	31.64(0.896)	25.52(0.723)

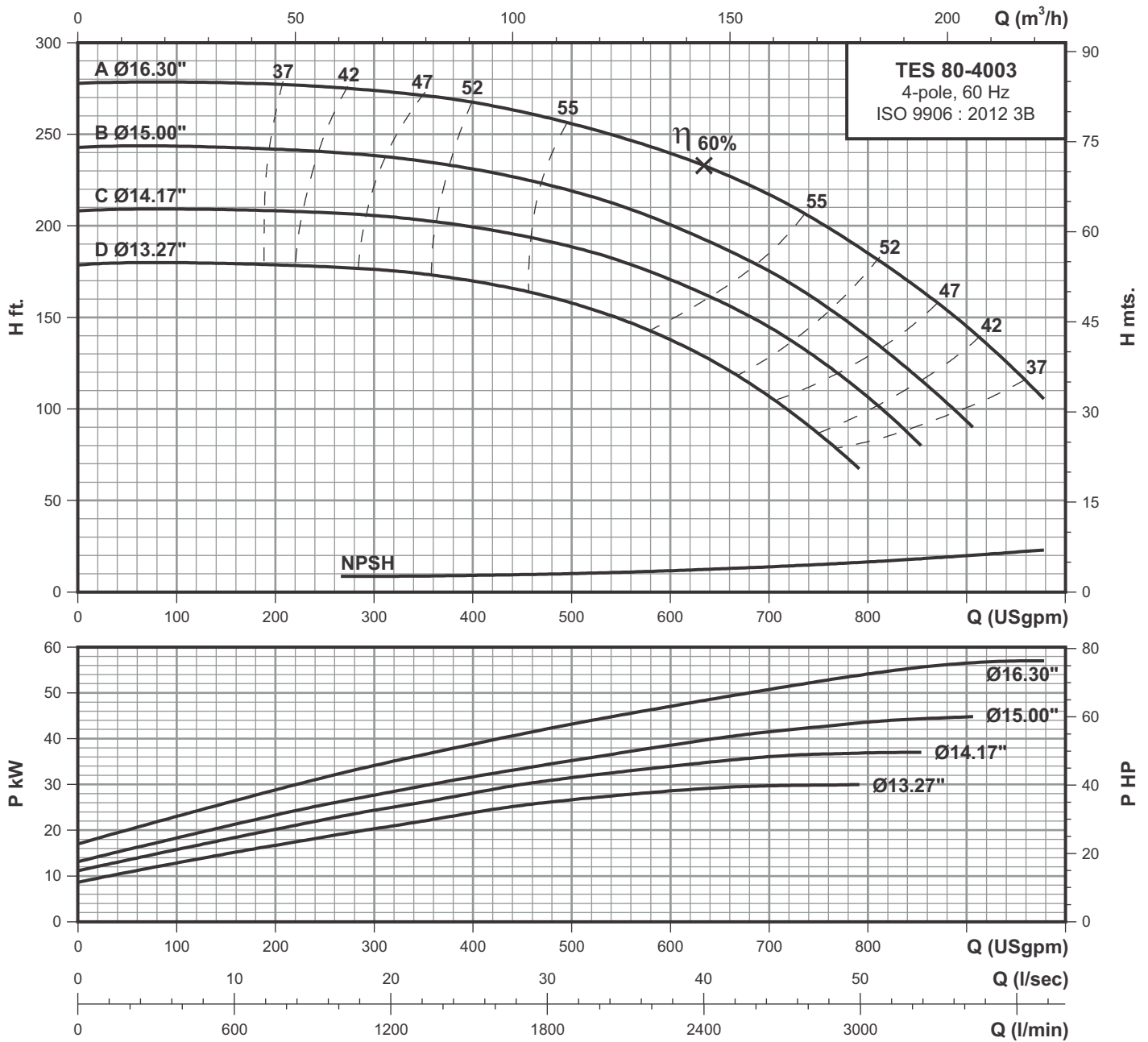
4 POLE

# Performance curves

Single-stage end-suction pumps

## TES 80-4003

### 4-pole



**4 POLE**

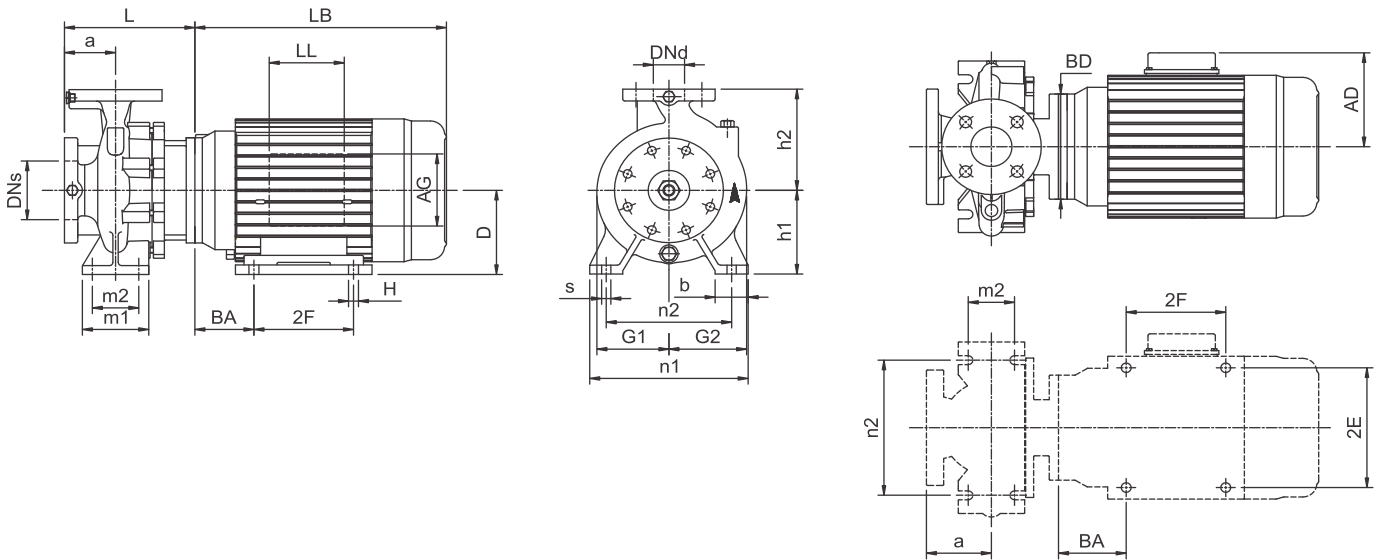
### Performance data at n=1750 rpm

Model	Power		l/min USgpm	379	757	1136	1514	1893	2271	2650	3028	3407
	HP	kW		100	200	300	400	500	600	700	800	900
TES 80-4003D	40.0	30.0	H ft.	179.6	178.7	176.4	170.1	157.5	137.8	107.2	-	-
TES 80-4003C	50.0	37.0		209.4	207.8	205.5	199.2	189	170.9	145	106.3	-
TES 80-4003B	60.0	45.0		243.3	241.7	238.6	231.5	218.9	200.7	175.6	139.4	93
TES 80-4003A	75.0	55.0		278.7	277.1	274	267.7	255.8	240.1	217.3	185	145

# Technical data

## Single-stage end-suction pumps

# TES 100-2003 4-pole



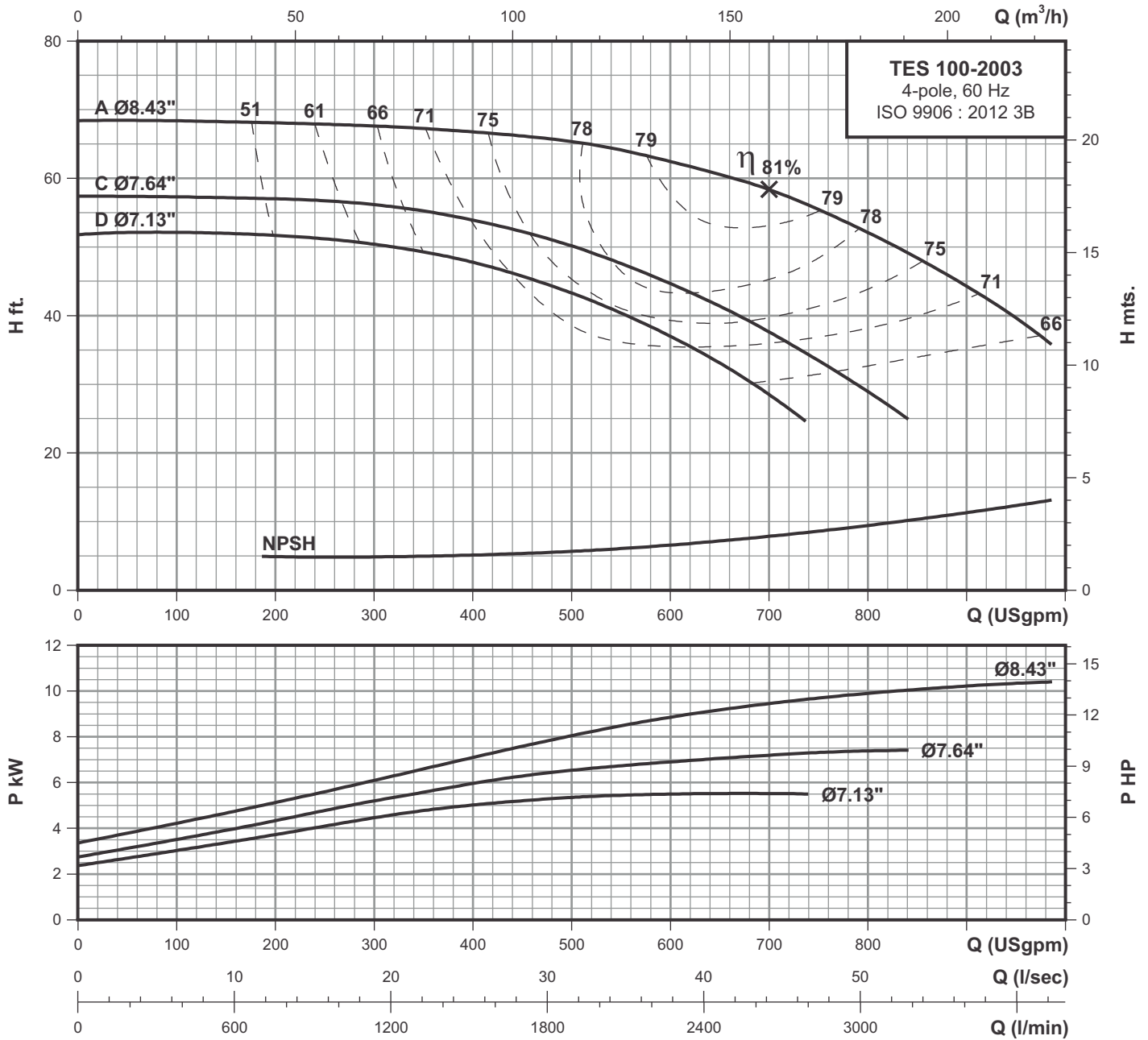
Power	(hp)	7.5	10	15
	(kw)	5.5	7.5	11
Frame		213JM	215JM	254JM
ANSI flange		125	125	125
Code for Impeller diameter		D	C	A
DNs	inch(mm)	5.00(125)	5.00(125)	5.00(125)
Dnd	inch(mm)	4.00(100)	4.00(100)	4.00(100)
a	inch(mm)	4.92(125)	4.92(125)	4.92(125)
h2	inch(mm)	11.02(280)	11.02(280)	11.02(280)
L	inch(mm)	9.45(240)	9.45(240)	10.08(256)
h1	inch(mm)	7.87(200)	7.87(200)	7.87(200)
G1	inch(mm)	6.54(166)	6.54(166)	6.54(166)
G2	inch(mm)	7.95(202)	7.95(202)	7.95(202)
m1	inch(mm)	6.30(160)	6.30(160)	6.30(160)
m2	inch(mm)	4.72(120)	4.72(120)	4.72(120)
n1	inch(mm)	14.17(360)	14.17(360)	14.17(360)
n2	inch(mm)	11.02(280)	11.02(280)	11.02(280)
b	inch(mm)	3.15(80)	3.15(80)	3.15(80)
s	inch(mm)	0.71(18)	0.71(18)	0.71(18)
D	inch(mm)	-	-	6.25(159)
LB	inch(mm)	14.92(379)	16.42(417)	19.17(487)
AD	inch(mm)	7.40(188)	7.40(188)	9.49(241)
AG	inch(mm)	5.16(131)	5.16(131)	6.73(171)
LL	inch(mm)	5.16(131)	5.16(131)	5.98(152)
BD	inch(mm)	8.86(225)	8.86(225)	10.00(254)
BA	inch(mm)	-	-	4.25(108)
2F	inch(mm)	-	-	8.25(210)
2E	inch(mm)	-	-	10.00(254)
H	inch(mm)	-	-	0.53(13.5)
Net Weight	lbs(kg)	287(130)	312(142)	395(179)
Gross Weight	lbs(kg)	406(184)	431(196)	531(241)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	12.39(0.351)	12.99(0.351)	15.77(0.447)

4 POLE

# Performance curves

Single-stage end-suction pumps

# TES 100-2003 4-pole



**4 POLE**

## Performance data at n=1750 rpm

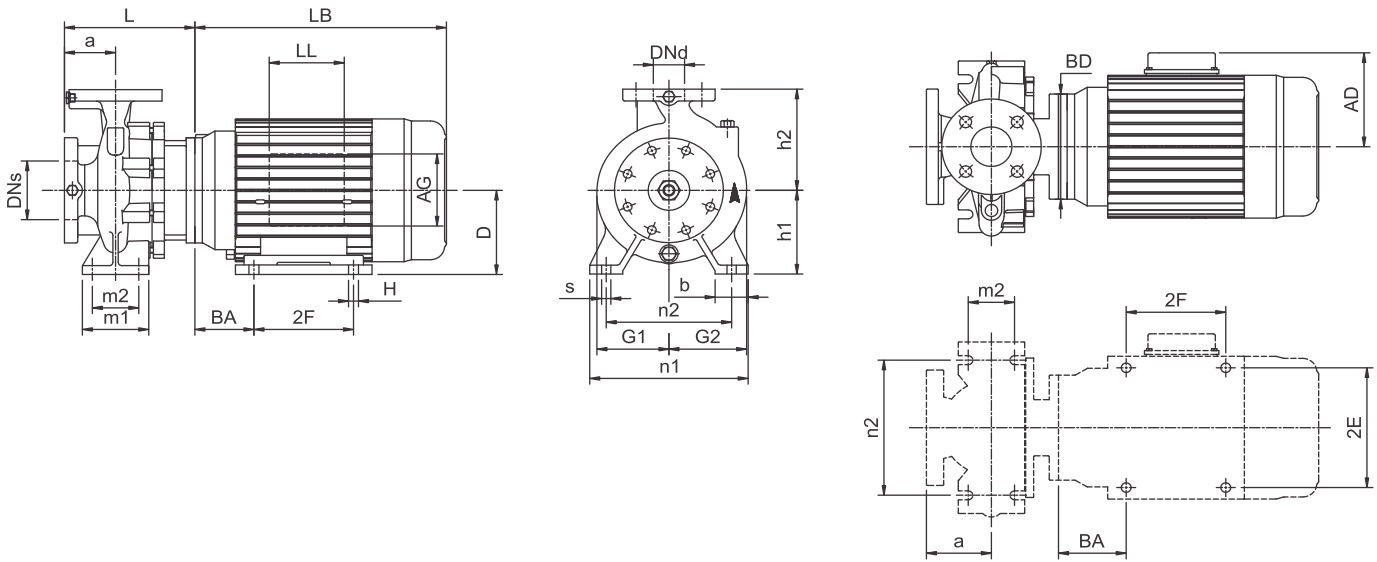
Model	Power		l/min USgpm	379	757	1136	1514	1893	2271	2650	3028	3407
	HP	kW		100	200	300	400	500	600	700	800	900
TES 100-2003D	7.50	5.50	H ft.	52	51.6	50.4	47.8	43.3	37	28.5	-	-
TES 100-2003C	10.0	7.50		57.3	57	56.2	54	50.2	44.5	37.7	28.9	-
TES 100-2003A	15.0	11.0		68.3	68.1	67.7	66.7	65.4	62.5	58.3	52.1	44.1

# Technical data

## Single-stage end-suction pumps

# TES 100-2503

## 4-pole



Power	(hp)	15	20	25
	(kw)	11	15	18.5
Frame		254JM	256JM	284JM
ANSI flange		125	125	125
Code for Impeller diameter		C	B	A
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)	10.71(272)	10.71(272)	10.71(272)
h1	inch(mm)	8.86(225)	8.86(225)	8.86(225)
G1	inch(mm)	7.24(184)	7.24(184)	7.24(184)
G2	inch(mm)	8.43(214)	8.43(214)	8.43(214)
m1	inch(mm)	6.30(160)	6.30(160)	6.30(160)
m2	inch(mm)	4.72(120)	4.72(120)	4.72(120)
n1	inch(mm)	15.75(400)	15.75(400)	15.75(400)
n2	inch(mm)	12.40(315)	12.40(315)	12.40(315)
b	inch(mm)	3.15(80)	3.15(80)	3.15(80)
s	inch(mm)	0.71(18)	0.71(18)	0.71(18)
D	inch(mm)	6.25(159)	6.25(159)	7.00(178)
LB	inch(mm)	19.17(487)	20.83(529)	23.70(602)
AD	inch(mm)	9.49(241)	9.49(241)	11.57(294)
AG	inch(mm)	6.73(171)	6.73(171)	10.35(263)
LL	inch(mm)	5.98(152)	5.98(152)	7.68(195)
BD	inch(mm)	10.00(254)	10.00(254)	14.00(356)
BA	inch(mm)	4.25(108)	4.25(108)	4.76(121)
2F	inch(mm)	8.25(210)	10.00(254)	9.50(241)
2E	inch(mm)	10.00(254)	10.00(254)	11.00(279)
H	inch(mm)	0.53(13.5)	0.53(13.5)	0.53(13.5)
Net Weight	lbs(kg)	416(189)	462(210)	650(295)
Gross Weight	lbs(kg)	548(249)	598(272)	813(369)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	15.22(0.431)	15.77(0.447)	21.01(0.595)

4 POLE

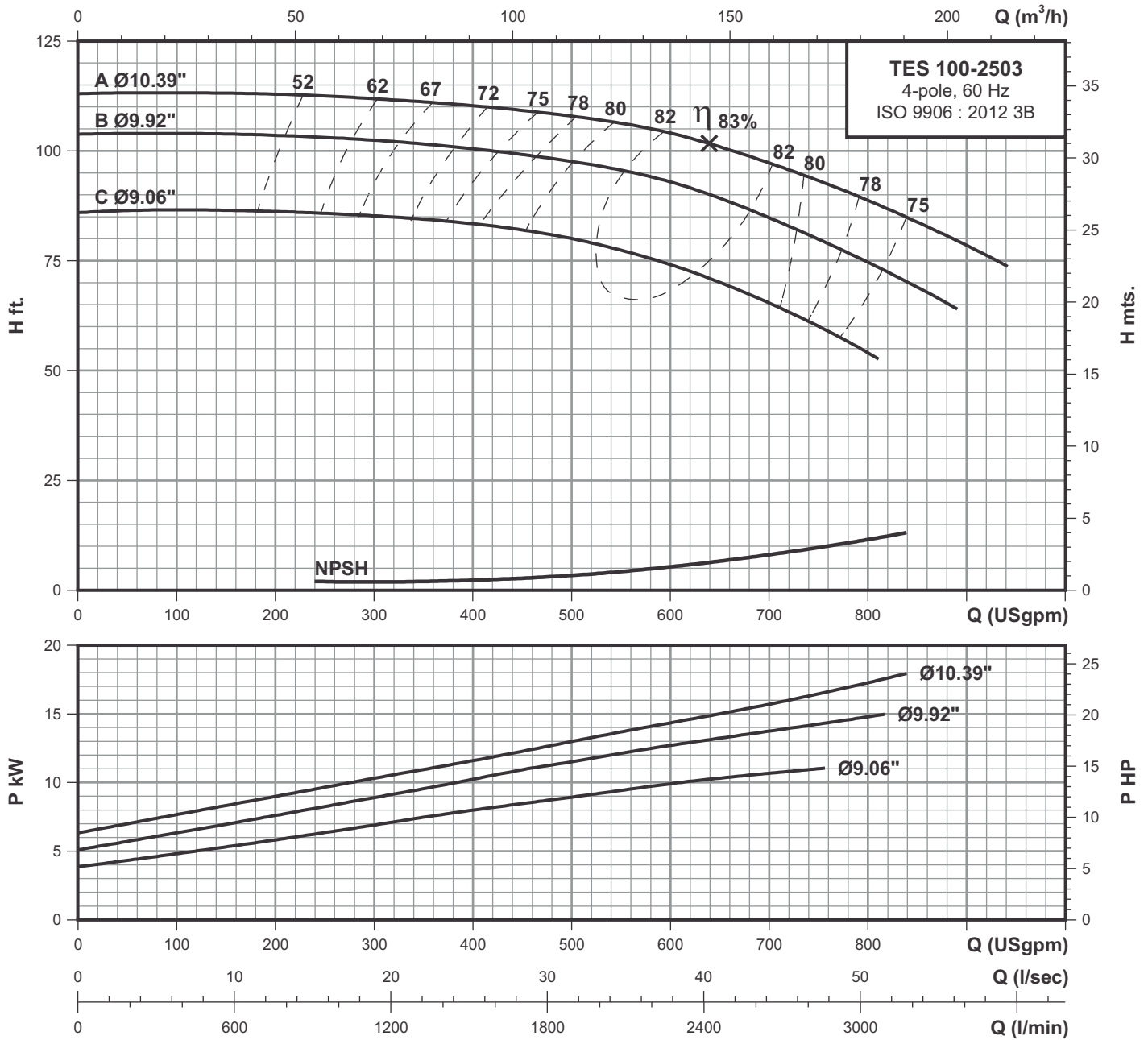


# Performance curves

Single-stage end-suction pumps

## TES 100-2503

### 4-pole



**4 POLE**

### Performance data at n=1750 rpm

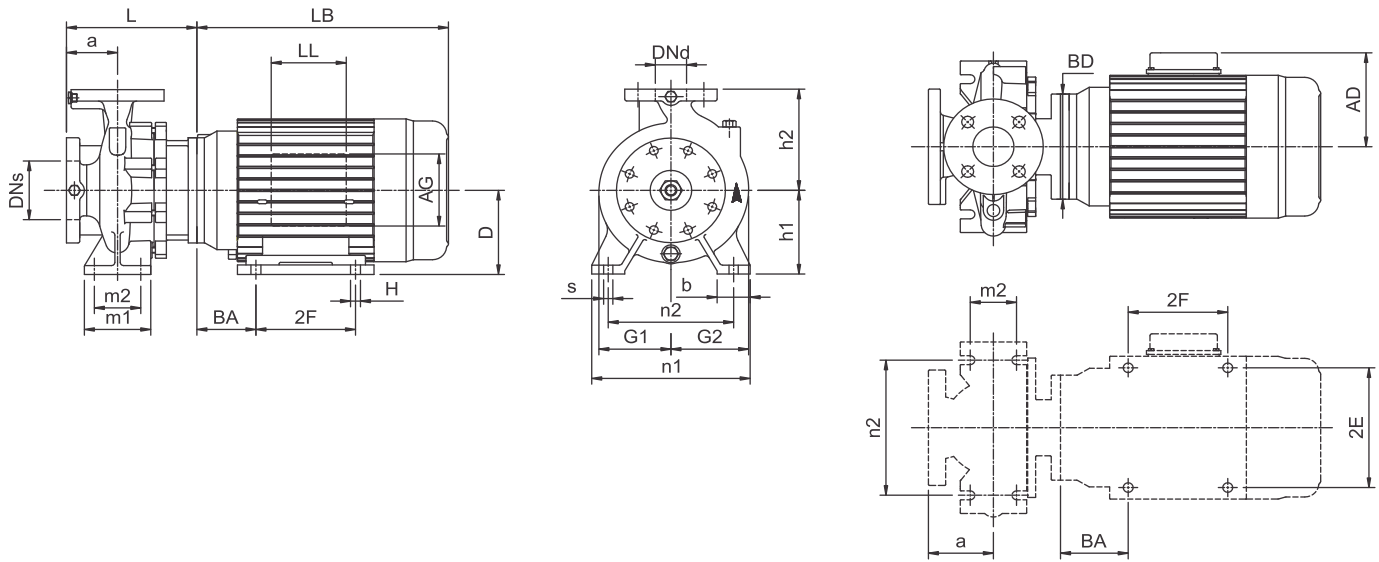
Model	Power		l/min USgpm	379	757	1136	1514	1893	2271	2650	3028	3407
	HP	kW		100	200	300	400	500	600	700	800	900
TES 100-2503C	15.0	11.0	H ft.	86.6	86.2	85.1	83.4	80	74	65.4	54	-
TES 100-2503B	20.0	15.0		104	103.5	102.5	100	97.6	93.1	84.8	74.4	-
TES 100-2503A	25.0	18.5		113.3	113	111.9	110	108	104.2	97.3	88.6	78.6

# Technical data

## Single-stage end-suction pumps

# TES 100-3153

## 4-pole

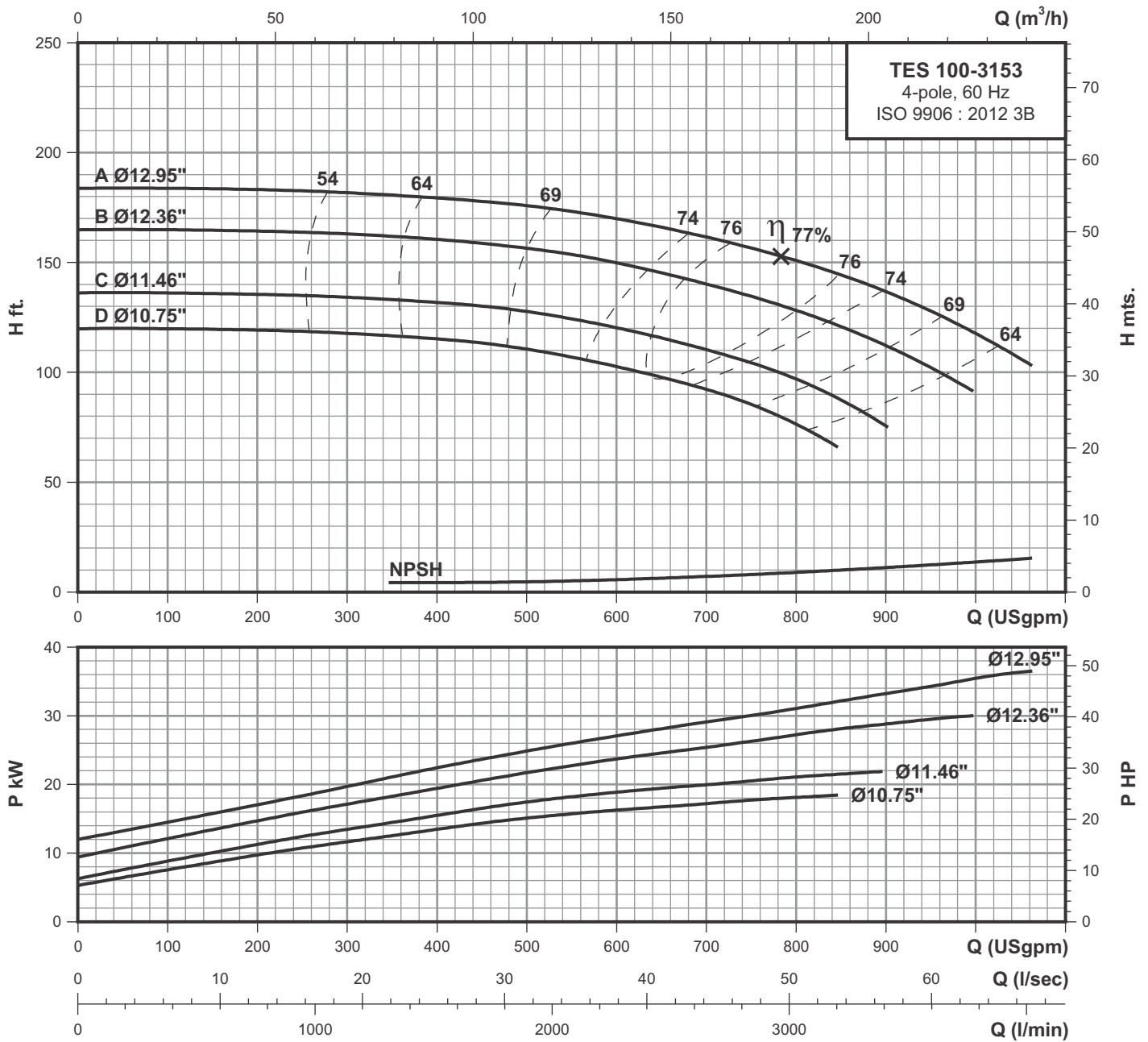


Power	(hp)	25	30	40	50
	(kw)	18.5	22	30	37
Frame		284JM	286JM	324JM	326JM
ANSI flange		125	125	125	125
Code for Impeller diameter		D	C	B	A
DNs	inch(mm)	5.00(125)	5.00(125)	5.00(125)	5.00(125)
Dnd	inch(mm)	4.00(100)	4.00(100)	4.00(100)	4.00(100)
a	inch(mm)	5.51(140)	5.51(140)	5.51(140)	5.51(140)
h2	inch(mm)	12.40(315)	12.40(315)	12.40(315)	12.40(315)
L	inch(mm)	10.71(272)	10.71(272)	10.71(272)	10.71(272)
h1	inch(mm)	9.84(250)	9.84(250)	9.84(250)	9.84(250)
G1	inch(mm)	8.39(213)	8.39(213)	8.39(213)	8.39(213)
G2	inch(mm)	9.65(245)	9.65(245)	9.65(245)	9.65(245)
m1	inch(mm)	6.30(160)	6.30(160)	6.30(160)	6.30(160)
m2	inch(mm)	4.72(120)	4.72(120)	4.72(120)	4.72(120)
n1	inch(mm)	15.75(400)	15.75(400)	15.75(400)	15.75(400)
n2	inch(mm)	12.40(315)	12.40(315)	12.40(315)	12.40(315)
b	inch(mm)	3.15(80)	3.15(80)	3.15(80)	3.15(80)
s	inch(mm)	0.71(18)	0.71(18)	0.71(18)	0.71(18)
D	inch(mm)	7.00(178)	7.00(178)	8.00(203)	8.00(203)
LB	inch(mm)	23.70(602)	25.24(641)	27.09(688)	27.09(688)
AD	inch(mm)	11.57(294)	11.57(294)	12.05(306)	12.05(306)
AG	inch(mm)	10.35(263)	10.35(263)	10.35(263)	10.35(263)
LL	inch(mm)	7.68(195)	7.68(195)	7.68(195)	7.68(195)
BD	inch(mm)	14.00(356)	14.00(356)	14.00(356)	14.00(356)
BA	inch(mm)	4.76(121)	4.76(121)	5.25(133)	5.25(133)
2F	inch(mm)	9.50(241)	11.00(279)	10.50(267)	12.00(305)
2E	inch(mm)	11.00(279)	11.00(279)	12.50(318)	12.50(318)
H	inch(mm)	0.53(13.5)	0.53(13.5)	0.66(17)	0.66(17)
Net Weight	lbs(kg)	678(308)	713(324)	830(377)	878(399)
Gross Weight	lbs(kg)	845(384)	907(412)	991(450)	1039(472)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	22.35(0.633)	27.22(0.771)	20.44(0.579)	20.44(0.579)

# Performance curves

Single-stage end-suction pumps

## TES 100-3153 4-pole



**4 POLE**

### Performance data at n=1750 rpm

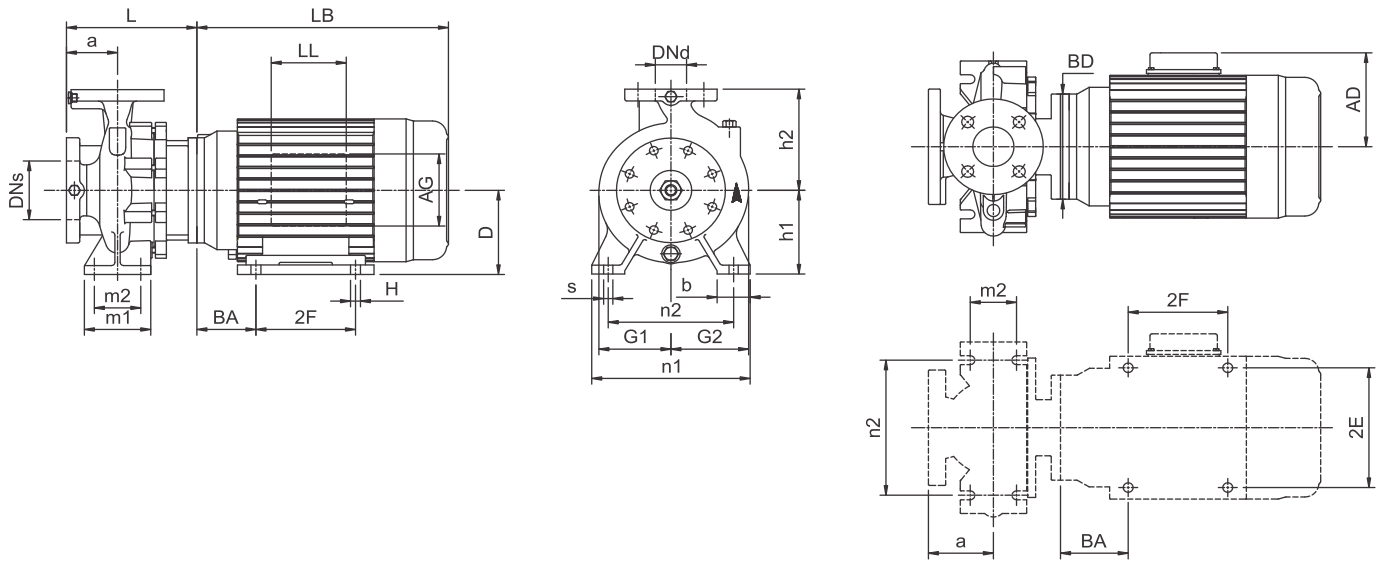
Model	Power		l/min USgpm	379	757	1136	1514	1893	2271	2650	3028	3407	3785
	HP	kW		100	200	300	400	500	600	700	800	900	1000
TES 100-3153D	25.0	18.5	H ft.	119.5	118.8	117.4	115.4	110.6	102.4	92.2	77.2	-	-
TES 100-3153C	30.0	22.0		136	135.2	133.8	131.8	127.7	120.2	110.3	96.9	75.8	-
TES 100-3153B	40.0	30.0		164.8	164.1	162.7	160.5	156.4	150.2	140.4	128.4	112.7	-
TES 100-3153A	50.0	37.0		183.7	183	181.7	179.6	175.5	170	161.8	151	137.3	117.4

# Technical data

## Single-stage end-suction pumps

# TES 100-4003

## 4-pole



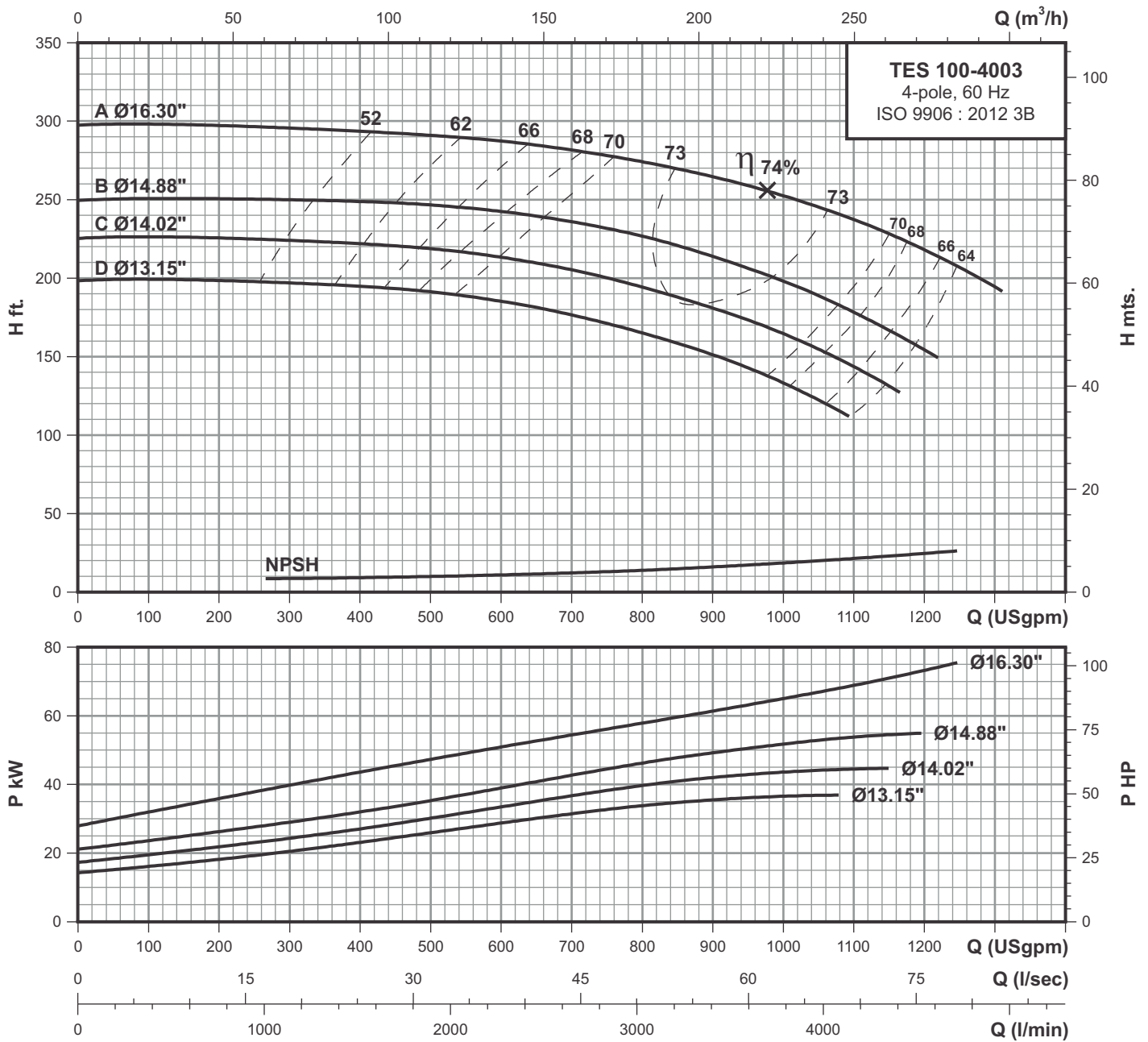
Power	(hp)	50	60	75	100
	(kw)	37	45	55	75
Frame		326JM	364JM	365JM	405TC
ANSI flange		125	125	125	250
Code for Impeller diameter		D	C	B	A
DNs	inch(mm)	5.00(125)	5.00(125)	5.00(125)	5.00(125)
Dnd	inch(mm)	4.00(100)	4.00(100)	4.00(100)	4.00(100)
a	inch(mm)	5.51(140)	5.51(140)	5.51(140)	5.51(140)
h2	inch(mm)	13.98(355)	13.98(355)	13.98(355)	13.98(355)
L	inch(mm)	11.10(282)	11.10(282)	11.10(282)	18.15(461)
h1	inch(mm)	11.02(280)	11.02(280)	11.02(280)	11.02(280)
G1	inch(mm)	10.00(254)	10.00(254)	10.00(254)	10.00(254)
G2	inch(mm)	10.98(279)	10.98(279)	10.98(279)	10.98(279)
m1	inch(mm)	7.87(200)	7.87(200)	7.87(200)	7.87(200)
m2	inch(mm)	5.91(150)	5.91(150)	5.91(150)	5.91(150)
n1	inch(mm)	19.69(500)	19.69(500)	19.69(500)	19.69(500)
n2	inch(mm)	15.75(400)	15.75(400)	15.75(400)	15.75(400)
b	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
s	inch(mm)	0.87(22)	0.87(22)	0.87(22)	0.87(22)
D	inch(mm)	8.00(203)	9.00(229)	9.00(229)	10.00(254)
LB	inch(mm)	27.09(688)	27.56(700)	28.54(725)	31.22(793)
AD	inch(mm)	12.05(306)	12.91(328)	12.91(328)	16.30(414)
AG	inch(mm)	10.35(263)	10.35(263)	10.35(263)	12.87(327)
LL	inch(mm)	7.68(195)	7.68(195)	7.68(195)	9.45(240)
BD	inch(mm)	14.00(356)	14.00(356)	14.00(356)	15.51(394)
BA	inch(mm)	5.25(133)	5.86(149)	5.86(149)	6.62(168)
2F	inch(mm)	12.00(305)	11.25(286)	12.25(311)	13.75(349)
2E	inch(mm)	12.50(318)	14.00(356)	14.00(356)	16.00(406)
H	inch(mm)	0.66(17)	0.66(17)	0.66(17)	0.81(21)
Net Weight	lbs(kg)	939(427)	1038(472)	1141(519)	1596(725)
Gross Weight	lbs(kg)	1150(523)	1249(568)	1352(615)	1812(823)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	31.64(0.896)	31.64(0.896)	31.64(0.896)	32.63(0.924)

# Performance curves

Single-stage end-suction pumps

## TES 100-4003

### 4-pole



**4 POLE**

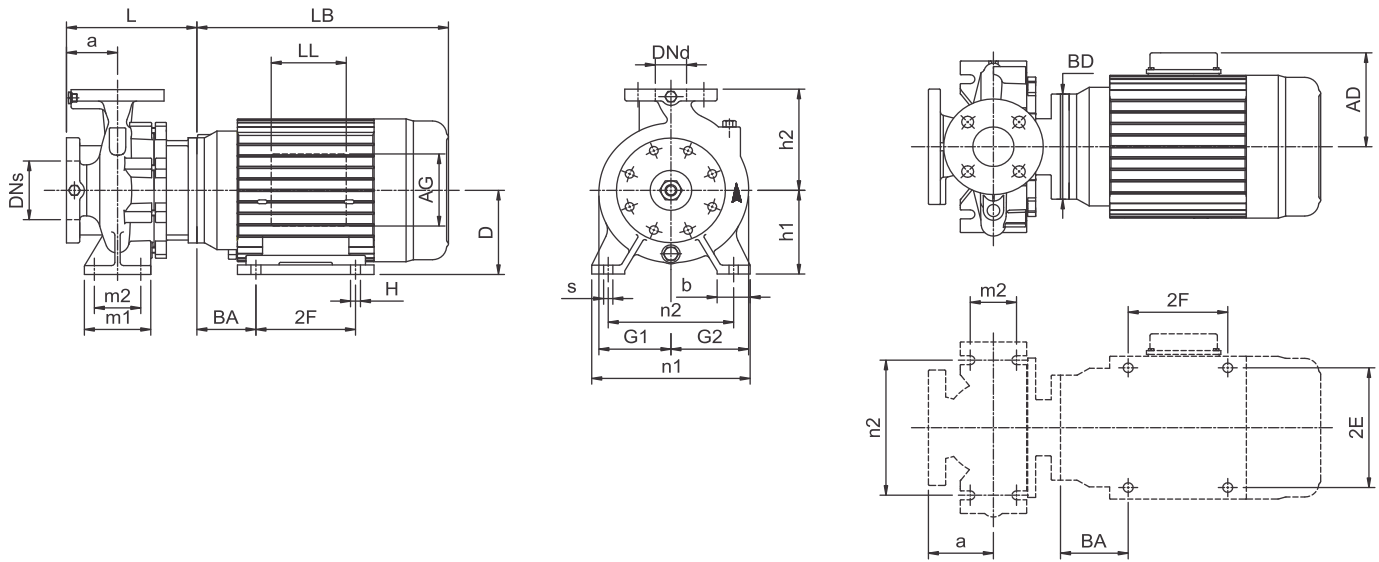
### Performance data at n=1750 rpm

Model	Power		l/min USgpm	1136	1514	1893	2271	2650	3028	3407	3785	4164	4543	4921
	HP	kW		300	400	500	600	700	800	900	1000	1100	1200	1300
TES 100-4003D	50.0	37.0	H ft.	196.6	194.6	191	185.2	176.8	164.5	151.3	133.4	-	-	-
TES 100-4003C	60.0	45.0		224	222	218.3	213.6	205	194.5	181.5	164.5	143.7	-	-
TES 100-4003B	75.0	55.0		249.4	248.5	246.6	242.8	236.2	226.7	214.5	198.5	178.7	154.3	-
TES 100-4003A	100.0	75.0		295.7	293.8	291	287.2	281.5	274	264.5	252.2	237.1	218.3	194.7

# Technical data

## Single-stage end-suction pumps

# TES 125-2503 4-pole



Power	(hp)	20	25	30	40
	(kw)	15	18.5	22	30
Frame		256JM	284JM	286JM	324JM
ANSI flange		125	125	125	125
Code for Impeller diameter		D	C	B	A
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)	10.71(272)	10.71(272)	10.71(272)	11.14(283)
h1	inch(mm)	9.84(250)	9.84(250)	9.84(250)	9.84(250)
G1	inch(mm)	8.11(206)	8.11(206)	8.11(206)	8.11(206)
G2	inch(mm)	9.84(250)	9.84(250)	9.84(250)	9.84(250)
m1	inch(mm)	6.30(160)	6.30(160)	6.30(160)	6.30(160)
m2	inch(mm)	4.72(120)	4.72(120)	4.72(120)	4.72(120)
n1	inch(mm)	15.75(400)	15.75(400)	15.75(400)	15.75(400)
n2	inch(mm)	12.40(315)	12.40(315)	12.40(315)	12.40(315)
b	inch(mm)	3.15(80)	3.15(80)	3.15(80)	3.15(80)
s	inch(mm)	0.71(18)	0.71(18)	0.71(18)	0.71(18)
D	inch(mm)	6.25(159)	7.00(178)	7.00(178)	8.00(203)
LB	inch(mm)	20.83(529)	23.70(602)	25.24(641)	27.09(688)
AD	inch(mm)	9.49(241)	11.57(294)	11.57(294)	12.05(306)
AG	inch(mm)	6.73(171)	10.35(263)	10.35(263)	10.35(263)
LL	inch(mm)	5.98(152)	7.68(195)	7.68(195)	7.68(195)
BD	inch(mm)	10.00(254)	14.00(356)	14.00(356)	14.00(356)
BA	inch(mm)	4.25(108)	4.76(121)	4.76(121)	5.25(133)
2F	inch(mm)	10.00(254)	9.50(241)	11.00(279)	10.50(267)
2E	inch(mm)	10.00(254)	11.00(279)	11.00(279)	12.50(318)
H	inch(mm)	0.53(13.5)	0.53(13.5)	0.53(13.5)	0.66(17)
Net Weight	lbs(kg)	519(236)	707(321)	742(337)	859(390)
Gross Weight	lbs(kg)	686(312)	874(397)	921(418)	1039(472)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	22.35(0.633)	22.35(0.633)	24.05(0.681)	24.48(0.693)

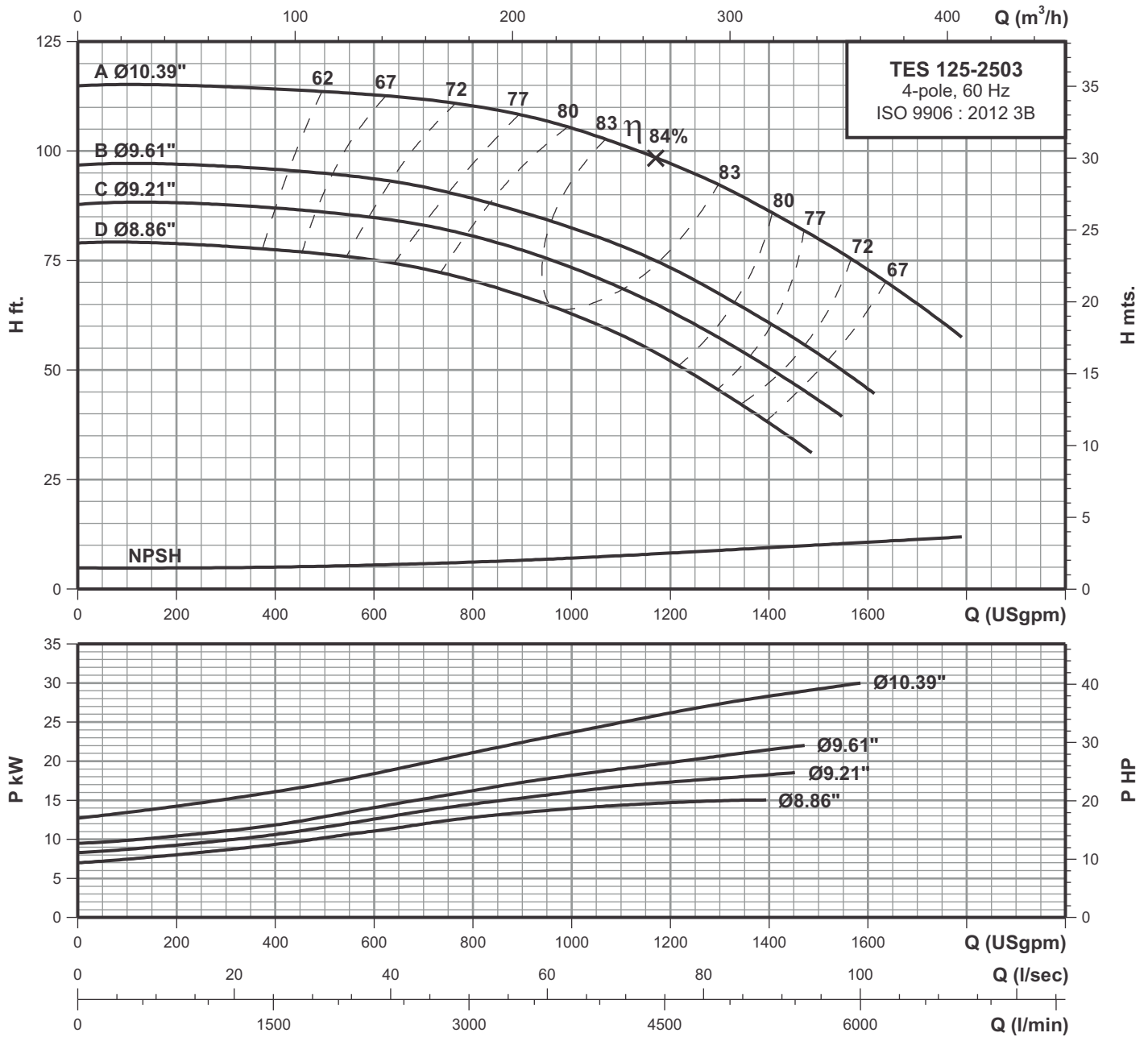
4 POLE

# Performance curves

Single-stage end-suction pumps

## TES 125-2503

### 4-pole



### Performance data at n=1750 rpm

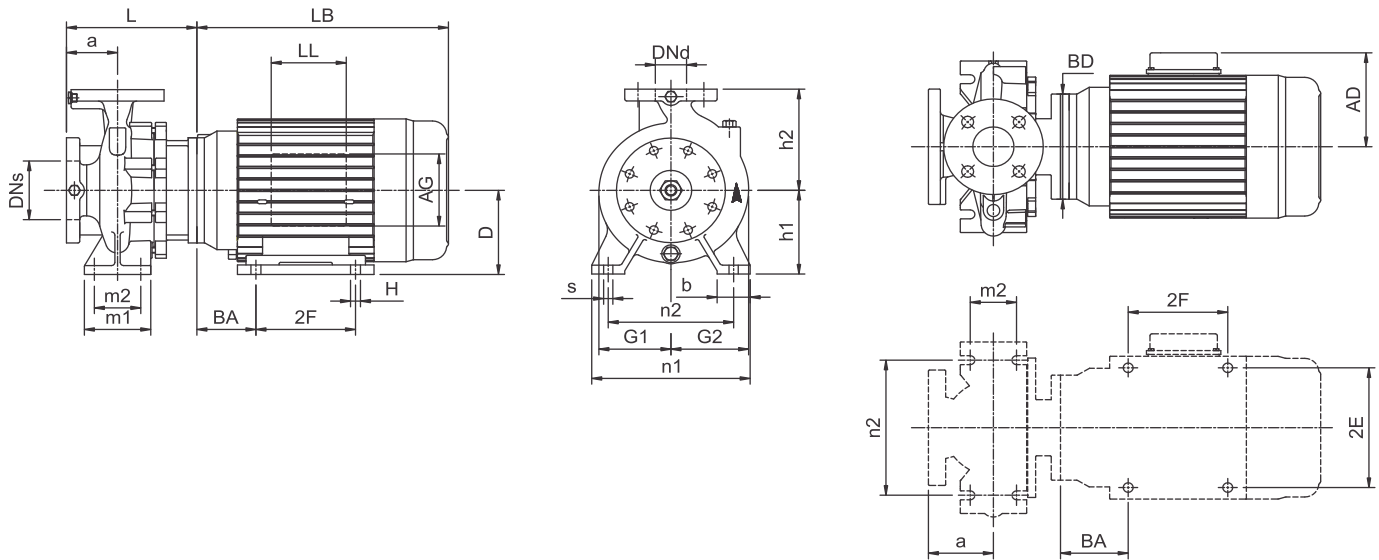
Model	Power		l/min USgpm	757	1514	2271	3028	3785	4543	5300	6057
	HP	kW		200	400	600	800	1000	1200	1400	1600
TES 125-2503D	20.0	15.0	H ft.	79	77.3	75.2	70.6	62.9	52.1	37.6	-
TES 125-2503C	25.0	18.5		88.1	87	84.7	80.7	73.3	63.5	50.5	-
TES 125-2503B	30.0	22.0		97.1	95.9	93.7	89	82.6	73.3	60.7	45.6
TES 125-2503A	40.0	30.0		115	114.3	112.8	110.3	105.1	97.1	86.3	73.1

# Technical data

## Single-stage end-suction pumps

# TES 125-3153

## 4-pole



Power	(hp)	40	50	60	75
	(kw)	30	37	45	55
Frame		324JM	326JM	364JM	365JM
ANSI flange		125	125	125	125
Code for Impeller diameter		D	C	B	A
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)	11.10(282)	11.10(282)	11.10(282)	11.10(282)
h1	inch(mm)	11.02(280)	11.02(280)	11.02(280)	11.02(280)
G1	inch(mm)	8.94(227)	8.94(227)	8.94(227)	8.94(227)
G2	inch(mm)	10.31(262)	10.31(262)	10.31(262)	10.31(262)
m1	inch(mm)	7.87(200)	7.87(200)	7.87(200)	7.87(200)
m2	inch(mm)	5.91(150)	5.91(150)	5.91(150)	5.91(150)
n1	inch(mm)	19.69(500)	19.69(500)	19.69(500)	19.69(500)
n2	inch(mm)	15.75(400)	15.75(400)	15.75(400)	15.75(400)
b	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
s	inch(mm)	0.87(22)	0.87(22)	0.87(22)	0.87(22)
D	inch(mm)	8.00(203)	8.00(203)	9.00(229)	9.00(229)
LB	inch(mm)	27.09(688)	27.09(688)	27.56(700)	28.54(725)
AD	inch(mm)	12.05(306)	12.05(306)	12.91(328)	12.91(328)
AG	inch(mm)	10.35(263)	10.35(263)	10.35(263)	10.35(263)
LL	inch(mm)	7.68(195)	7.68(195)	7.68(195)	7.68(195)
BD	inch(mm)	14.00(356)	14.00(356)	14.00(356)	14.00(356)
BA	inch(mm)	5.25(133)	5.25(133)	5.86(149)	5.86(149)
2F	inch(mm)	10.50(267)	12.00(305)	11.25(286)	12.25(311)
2E	inch(mm)	12.50(318)	12.50(318)	14.00(356)	14.00(356)
H	inch(mm)	0.66(17)	0.66(17)	0.66(17)	0.66(17)
Net Weight	lbs(kg)	885(402)	934(424)	1033(469)	1136(516)
Gross Weight	lbs(kg)	1096(498)	1145(520)	1217(553)	1321(600)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	31.64(0.896)	31.64(0.896)	25.52(0.723)	25.52(0.723)

4 POLE

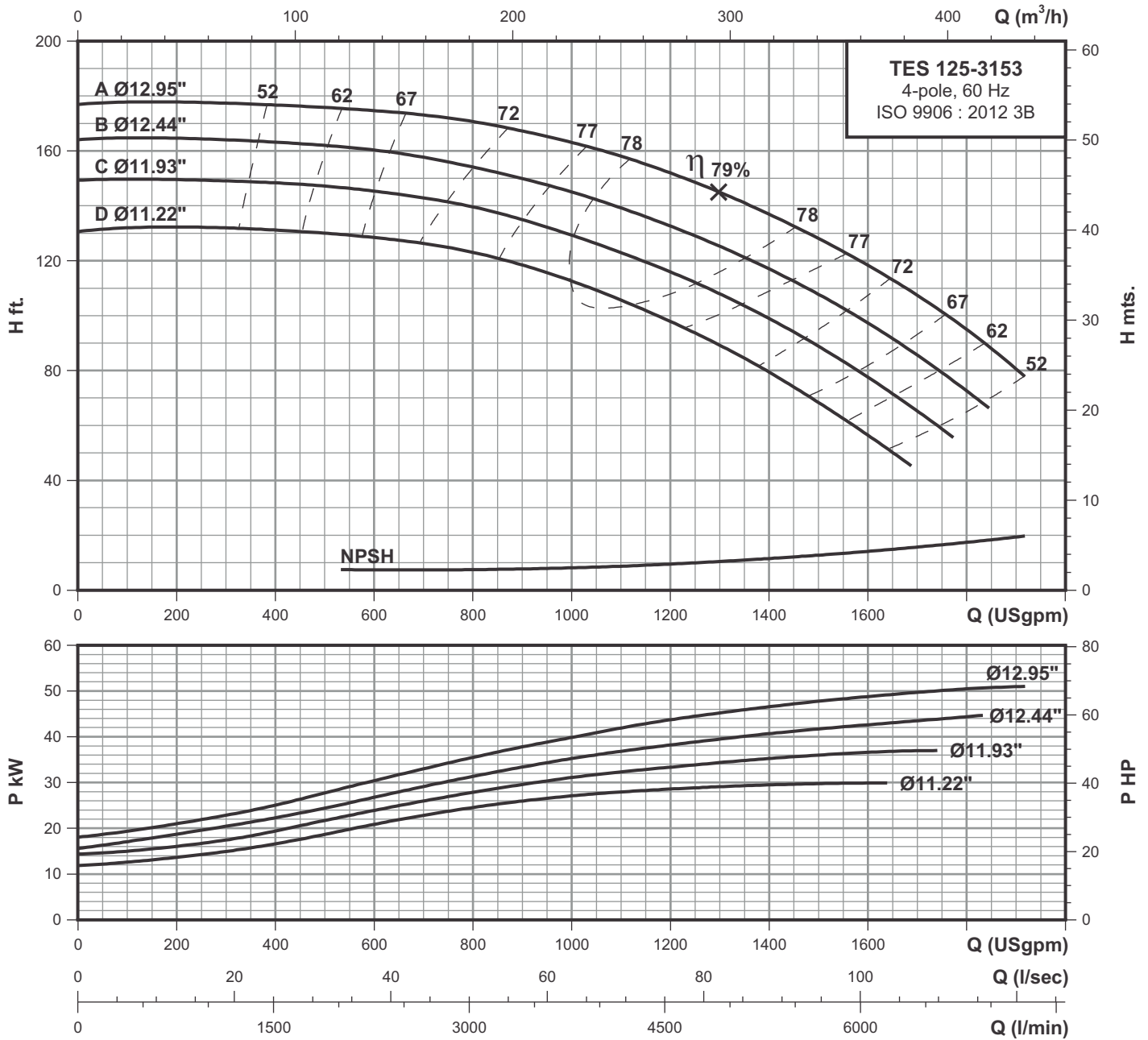


# Performance curves

Single-stage end-suction pumps

## TES 125-3153

### 4-pole



4 POLE

### Performance data at n=1750 rpm

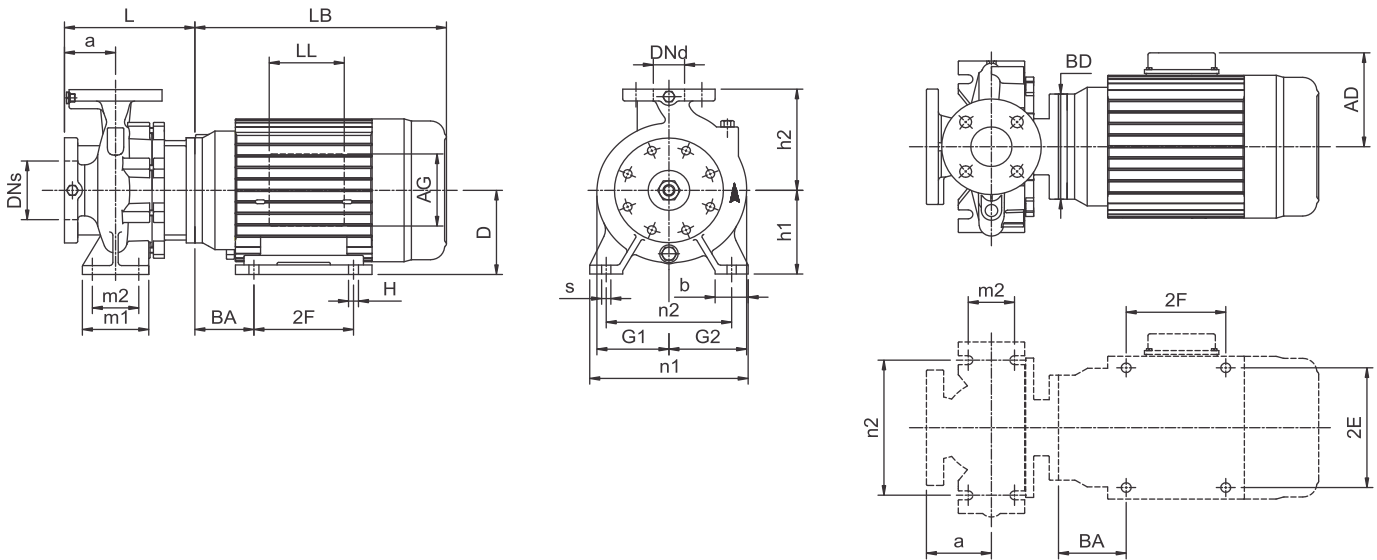
Model	Power		l/min USgpm	757	1514	2271	3028	3785	4543	5300	6057	6814
	HP	kW		200	400	600	800	1000	1200	1400	1600	1800
TES 125-3153D	40.0	30.0	H ft.	132.1	131.2	128.3	123.1	113	98.2	79.5	56.6	-
TES 125-3153C	50.0	37.0		149.5	148.2	145.5	139.7	129.5	115.6	99.2	77.7	-
TES 125-3153B	60.0	45.0		164.7	163.3	160.5	154	145.2	132.7	117	97.5	72.9
TES 125-3153A	75.0	55.0		177.8	176.8	175	170.5	163.3	151.8	136.8	118.5	95.4

# Technical data

## Single-stage end-suction pumps

# TES 125-4003

## 4-pole



Power	(hp)	100	125	150	200
	(kw)	75	90	110	150
Frame		405TC	444TC	445TC	505TC
ANSI flange		125	125	125	125
Code for Impeller diameter		D	C	B	A
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)	18.19(462)	19.41(493)	19.41(493)	21.54(547)
h1	inch(mm)	12.40(315)	12.40(315)	12.40(315)	12.40(315)
G1	inch(mm)	10.51(267)	10.51(267)	10.51(267)	10.51(267)
G2	inch(mm)	11.77(299)	11.77(299)	11.77(299)	11.77(299)
m1	inch(mm)	7.87(200)	7.87(200)	7.87(200)	7.87(200)
m2	inch(mm)	5.91(150)	5.91(150)	5.91(150)	5.91(150)
n1	inch(mm)	19.69(500)	19.69(500)	19.69(500)	19.69(500)
n2	inch(mm)	15.75(400)	15.75(400)	15.75(400)	15.75(400)
b	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
s	inch(mm)	0.87(22)	0.87(22)	0.87(22)	0.87(22)
D	inch(mm)	10.00(254)	11.00(280)	11.00(280)	12.50(318)
LB	inch(mm)	31.22(793)	34.25(870)	34.25(870)	39.88(1013)
AD	inch(mm)	16.30(414)	17.52(445)	17.52(445)	20.28(515)
AG	inch(mm)	12.87(327)	12.87(327)	12.87(327)	15.75(400)
LL	inch(mm)	9.45(240)	9.45(240)	9.45(240)	12.60(320)
BD	inch(mm)	15.51(394)	17.91(455)	17.91(455)	17.91(455)
BA	inch(mm)	6.62(168)	7.50(190)	7.50(190)	8.50(216)
2F	inch(mm)	13.75(349)	14.50(368)	16.50(419)	18.00(457)
2E	inch(mm)	16.00(406)	18.00(457)	18.00(457)	20.00(508)
H	inch(mm)	0.81(21)	0.81(21)	0.81(21)	1.25(32)
Net Weight	lbs(kg)	1646(748)	1994(906)	2376(1080)	2536(1153)
Gross Weight	lbs(kg)	1895(861)	2247(1021)	2629(1195)	2833(1288)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	40.29(1.141)	41.18(1.166)	41.18(1.166)	53.14(1.505)

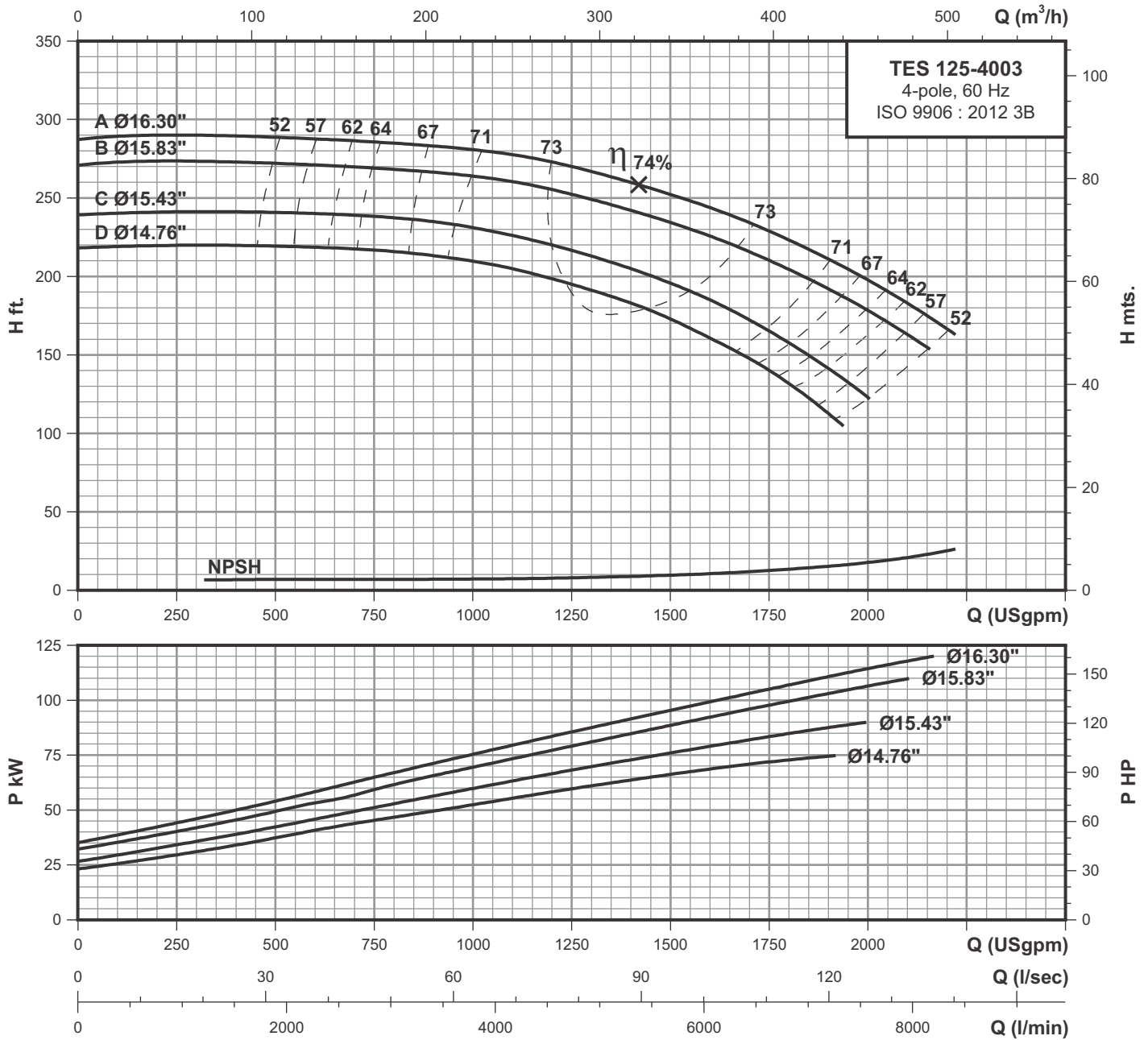
4 POLE

# Performance curves

Single-stage end-suction pumps

## TES 125-4003

### 4-pole



**4 POLE**

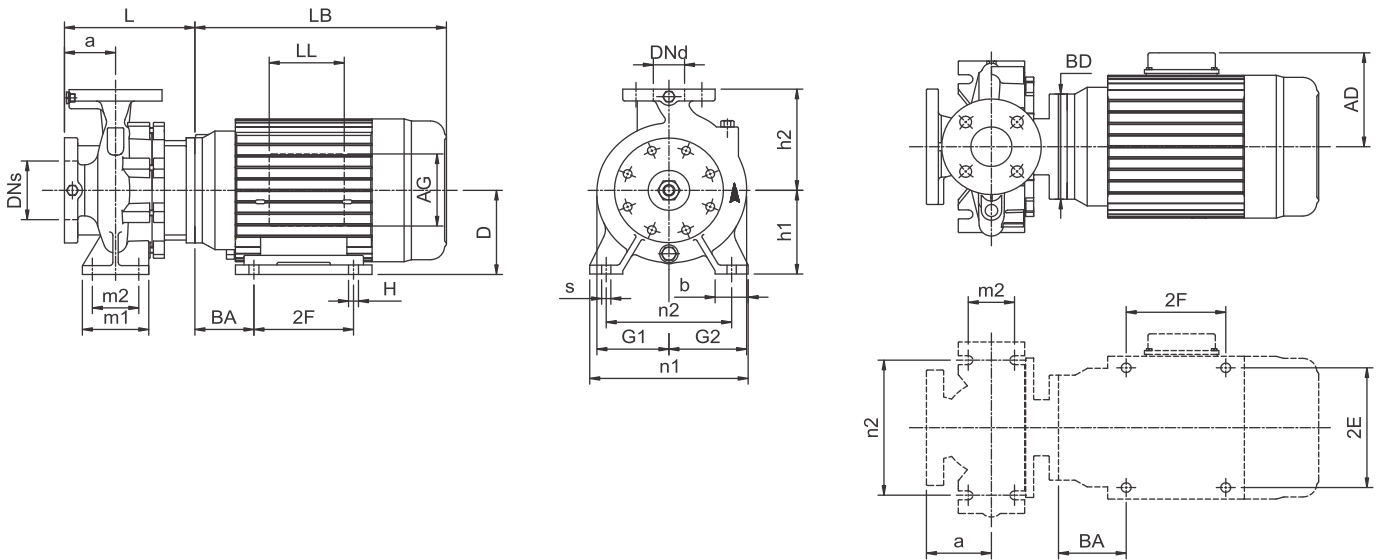
### Performance data at n=1750 rpm

Model	Power		l/min USgpm	946	1893	2839	3785	4732	5678	6625	7571
	HP	kW		250	500	750	1000	1250	1500	1750	2000
TES 125-4003D	100.0	75.0	H ft.	219.4	219.4	216.8	210	195.6	173	140.4	-
TES 125-4003C	125.0	90.0		240.9	240.9	238	231	216.2	196.4	165.3	122.3
TES 125-4003B	150.0	110.0		273.7	272.2	269.1	263.8	252.4	234.2	210.7	178
TES 125-4003A	200.0	150.0		290.4	288.8	285.7	281	270	252.1	229.4	198.1

# Technical data

## Single-stage end-suction pumps

# TES 150-2503 4-pole



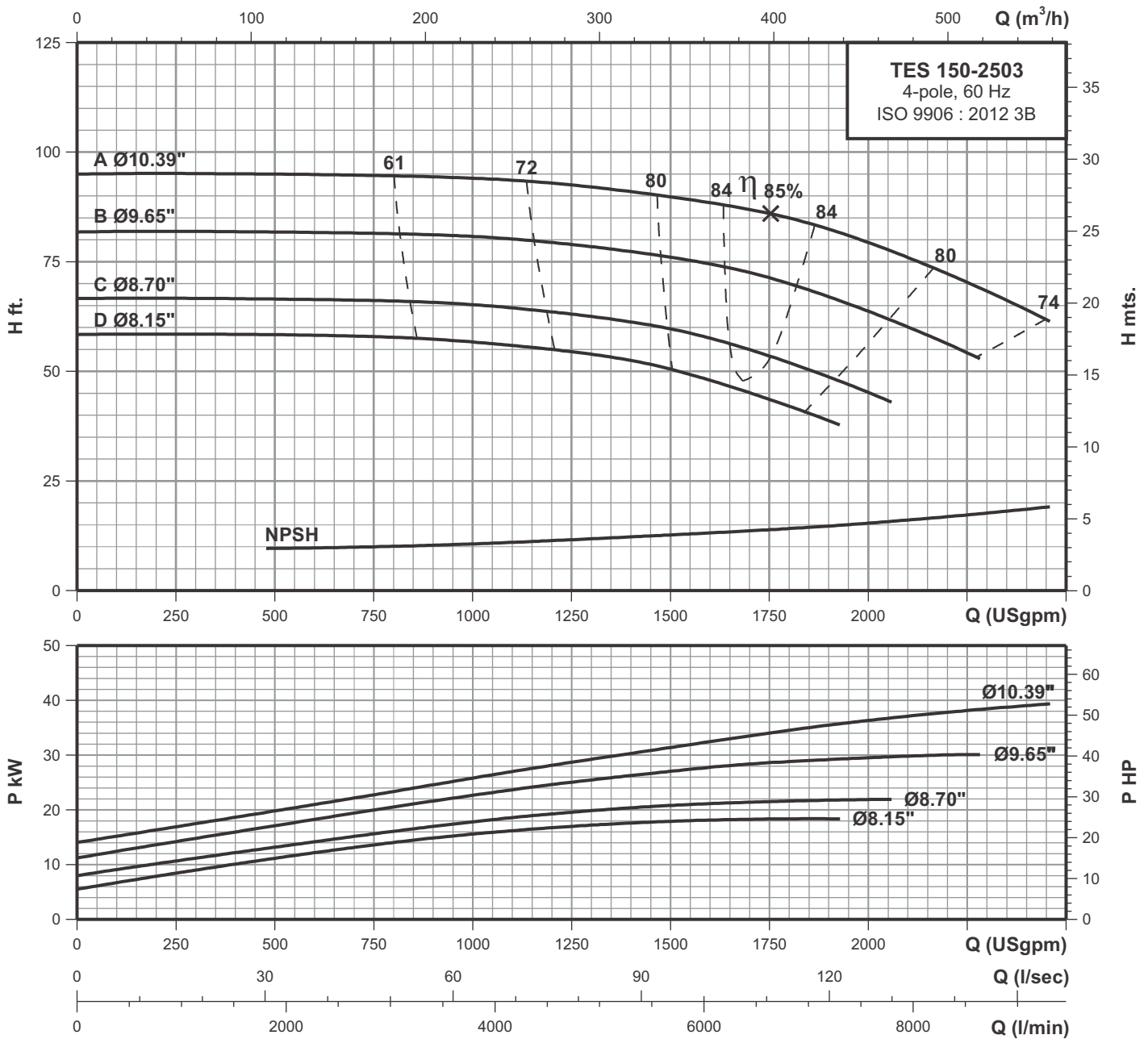
Power	(hp)	25	30	40	50
	(kw)	18.5	22	30	37
Frame		284JM	286JM	324JM	326JM
ANSI flange		125	125	125	125
Code for Impeller diameter		D	C	B	A
DNs	inch(mm)	8.00(200)	8.00(200)	8.00(200)	8.00(200)
Dnd	inch(mm)	6.00(150)	6.00(150)	6.00(150)	6.00(150)
a	inch(mm)	6.30(160)	6.30(160)	6.30(160)	6.30(160)
h2	inch(mm)	14.76(375)	14.76(375)	14.76(375)	14.76(375)
L	inch(mm)	11.30(287)	11.30(287)	11.30(287)	11.30(287)
h1	inch(mm)	11.02(280)	11.02(280)	11.02(280)	11.02(280)
G1	inch(mm)	8.82(224)	8.82(224)	8.82(224)	8.82(224)
G2	inch(mm)	11.06(281)	11.06(281)	11.06(281)	11.06(281)
m1	inch(mm)	7.87(200)	7.87(200)	7.87(200)	7.87(200)
m2	inch(mm)	5.91(150)	5.91(150)	5.91(150)	5.91(150)
n1	inch(mm)	19.69(500)	19.69(500)	19.69(500)	19.69(500)
n2	inch(mm)	15.75(400)	15.75(400)	15.75(400)	15.75(400)
b	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
s	inch(mm)	0.87(22)	0.87(22)	0.87(22)	0.87(22)
D	inch(mm)	7.00(178)	7.00(178)	8.00(203)	8.00(203)
LB	inch(mm)	23.70(602)	25.24(641)	27.09(688)	27.09(688)
AD	inch(mm)	11.57(294)	11.57(294)	12.05(306)	12.05(306)
AG	inch(mm)	10.35(263)	10.35(263)	10.35(263)	10.35(263)
LL	inch(mm)	7.68(195)	7.68(195)	7.68(195)	7.68(195)
BD	inch(mm)	14.00(356)	14.00(356)	14.00(356)	14.00(356)
BA	inch(mm)	4.76(121)	4.76(121)	5.25(133)	5.25(133)
2F	inch(mm)	9.50(241)	11.00(279)	10.50(267)	12.00(305)
2E	inch(mm)	11.00(279)	11.00(279)	12.50(318)	12.50(318)
H	inch(mm)	0.53(13.5)	0.53(13.5)	0.66(17)	0.66(17)
Net Weight	lbs(kg)	732(333)	768(349)	885(402)	934(424)
Gross Weight	lbs(kg)	911(414)	946(430)	1066(484)	1114(506)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	24.03(0.681)	24.03(0.681)	24.48(0.693)	24.48(0.693)

4 POLE

# Performance curves

Single-stage end-suction pumps

## TES 150-2503 4-pole



**4 POLE**

### Performance data at n=1750 rpm

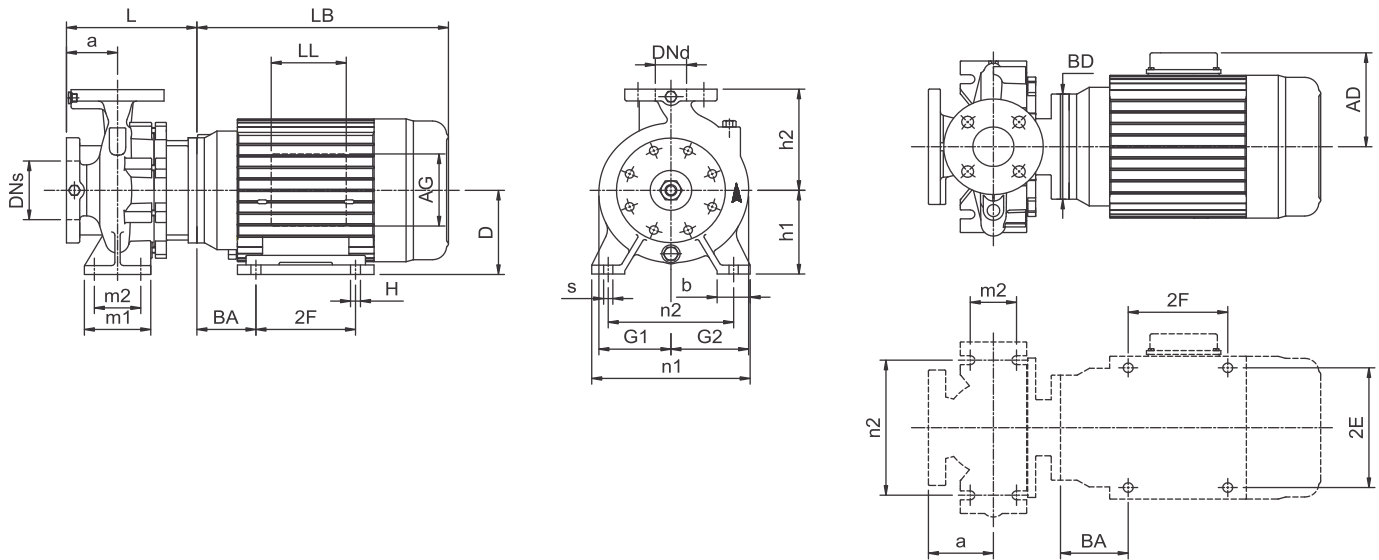
Model	Power		l/min USgpm	1893	2839	3785	4732	5678	6624	7572	8517
	HP	kW		500	750	1000	1250	1500	1750	2000	2250
TES 150-2503D	25.0	18.5	H ft.	58.5	57.9	56.6	54.6	50.5	43.8	-	-
TES 150-2503C	30.0	22.0		66.4	65.1	63	59.7	53.5	45	-	-
TES 150-2503B	40.0	30.0		81.6	81.5	80.8	79	76.1	71.5	63.8	54.3
TES 150-2503A	50.0	37.0		94.9	94.6	94.1	92.6	89.7	85.9	79.5	70.5

# Technical data

## Single-stage end-suction pumps

# TES 150-3153

## 4-pole



Power	(hp)	50	60	75	100
	(kw)	37	45	55	75
Frame		326JM	364JM	365JM	405TC
ANSI flange		125	125	125	125
Code for Impeller diameter		D	C	B	A
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)	11.89(302)	11.89(302)	11.89(302)	18.98(482)
h1	inch(mm)	11.02(280)	11.02(280)	11.02(280)	11.02(280)
G1	inch(mm)	9.53(242)	9.53(242)	9.53(242)	9.53(242)
G2	inch(mm)	11.30(287)	11.30(287)	11.30(287)	11.30(287)
m1	inch(mm)	7.87(200)	7.87(200)	7.87(200)	7.87(200)
m2	inch(mm)	5.91(150)	5.91(150)	5.91(150)	5.91(150)
n1	inch(mm)	21.65(550)	21.65(550)	21.65(550)	21.65(550)
n2	inch(mm)	17.72(450)	17.72(450)	17.72(450)	17.72(450)
b	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
s	inch(mm)	0.87(22)	0.87(22)	0.87(22)	0.87(22)
D	inch(mm)	8.00(203)	9.00(229)	9.00(229)	10.00(254)
LB	inch(mm)	27.09(688)	27.56(700)	28.54(725)	31.22(793)
AD	inch(mm)	12.05(306)	12.91(328)	12.91(328)	16.30(414)
AG	inch(mm)	10.35(263)	10.35(263)	10.35(263)	12.87(327)
LL	inch(mm)	7.68(195)	7.68(195)	7.68(195)	9.45(240)
BD	inch(mm)	14.00(356)	14.00(356)	14.00(356)	15.51(394)
BA	inch(mm)	5.25(133)	5.86(149)	5.86(149)	6.62(168)
2F	inch(mm)	12.00(305)	11.25(286)	12.25(311)	13.75(349)
2E	inch(mm)	12.50(318)	14.00(356)	14.00(356)	16.00(406)
H	inch(mm)	0.66(17)	0.66(17)	0.66(17)	0.81(21)
Net Weight	lbs(kg)	993(452)	1092(497)	1196(544)	1636(743)
Gross Weight	lbs(kg)	1204(548)	1303(593)	1407(640)	1864(847)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	31.64(0.896)	31.64(0.896)	31.64(0.896)	35.34(1.001)

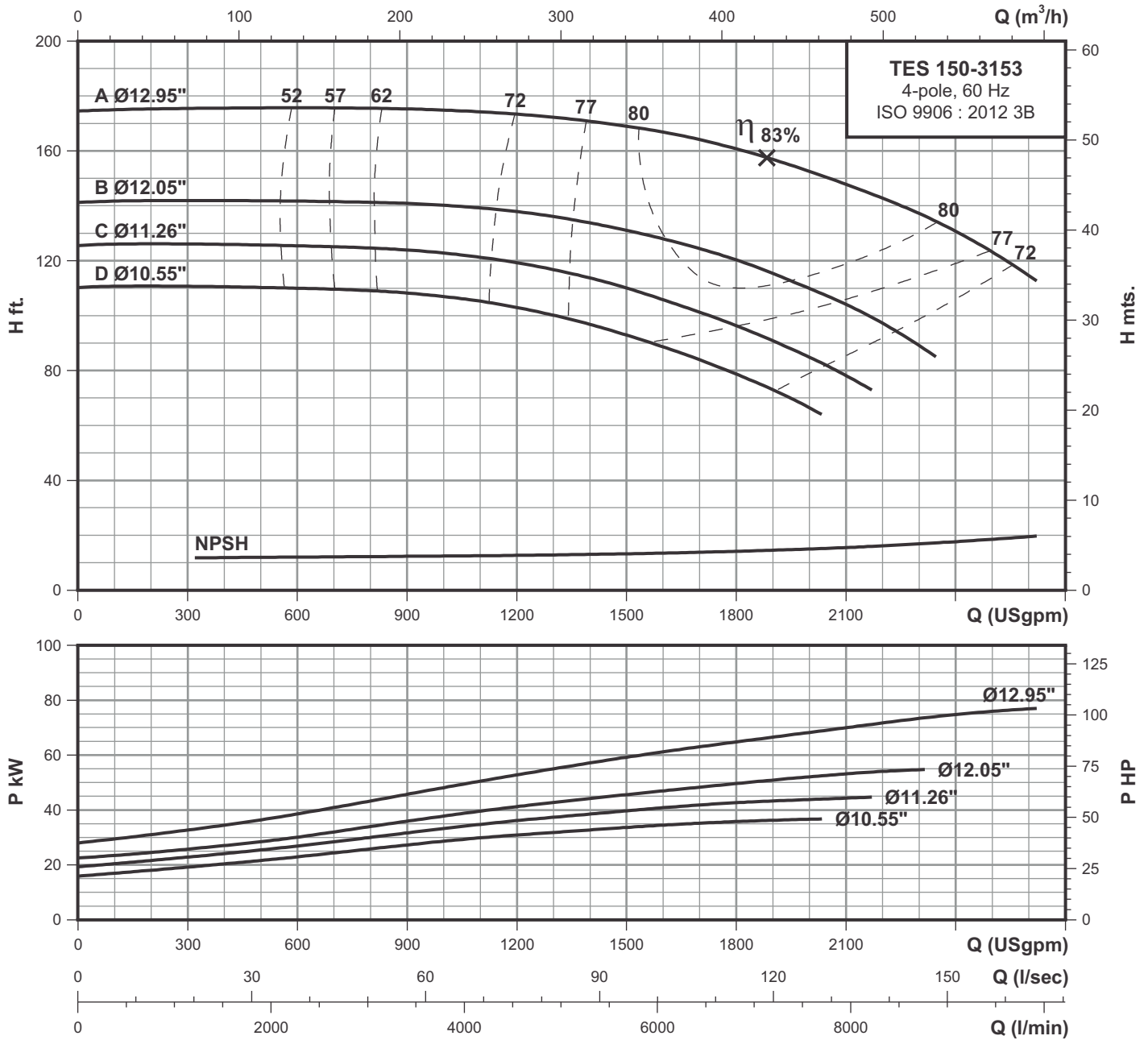
4 POLE

# Performance curves

Single-stage end-suction pumps

## TES 150-3153

### 4-pole



**4 POLE**

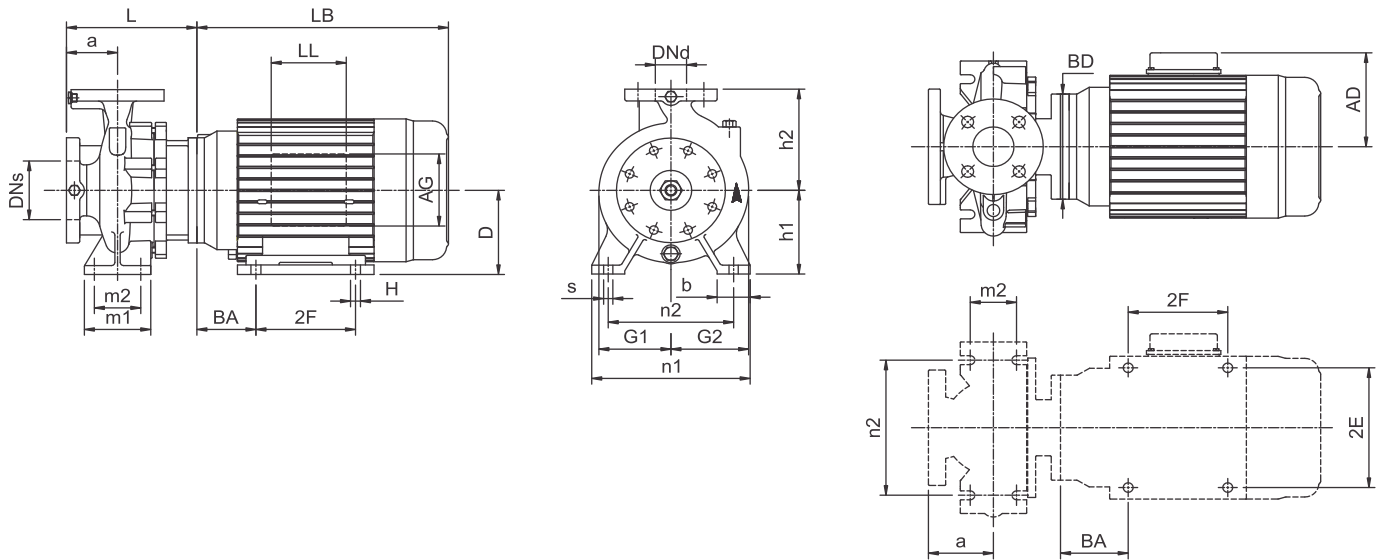
### Performance data at n=1750 rpm

Model	Power		l/min USgpm	1136	2271	3407	4543	5678	6814	7949	9085
	HP	kW		300	600	900	1200	1500	1800	2100	2400
TES 150-3153D	50.0	37.0	H ft.	110.6	109.8	108.3	103	92.7	78.6	-	-
TES 150-3153C	60.0	45.0		126.2	125.4	123.8	119.4	110	96.3	78.5	-
TES 150-3153B	75.0	55.0		142	141.7	140.7	138.1	131.1	120.2	104.1	-
TES 150-3153A	100.0	75.0		175.4	175.4	175.4	173.4	169	161.2	147.5	130.5

# Technical data

## Single-stage end-suction pumps

# TES 150-4003 4-pole



Power	(hp)	100	125	150	200
	(kw)	75	90	110	150
Frame		405TC	444TC	445TC	505TC
ANSI flange		125	125	125	125
Code for Impeller diameter		D	C	B	A
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)	18.94(481)	20.20(513)	20.20(513)	22.32(567)
h1	inch(mm)	12.40(315)	12.40(315)	12.40(315)	12.40(315)
G1	inch(mm)	10.98(279)	10.98(279)	10.98(279)	10.98(279)
G2	inch(mm)	12.60(320)	12.60(320)	12.60(320)	12.60(320)
m1	inch(mm)	7.87(200)	7.87(200)	7.87(200)	7.87(200)
m2	inch(mm)	5.91(150)	5.91(150)	5.91(150)	5.91(150)
n1	inch(mm)	21.65(550)	21.65(550)	21.65(550)	21.65(550)
n2	inch(mm)	17.72(450)	17.72(450)	17.72(450)	17.72(450)
b	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
s	inch(mm)	0.87(22)	0.87(22)	0.87(22)	0.87(22)
D	inch(mm)	10.00(254)	11.00(280)	11.00(280)	12.50(318)
LB	inch(mm)	31.22(793)	34.25(870)	34.25(870)	39.88(1013)
AD	inch(mm)	16.30(414)	17.52(445)	17.52(445)	20.28(515)
AG	inch(mm)	12.87(327)	12.87(327)	12.87(327)	15.75(400)
LL	inch(mm)	9.45(240)	9.45(240)	9.45(240)	12.60(320)
BD	inch(mm)	15.51(394)	17.91(455)	17.91(455)	17.91(455)
BA	inch(mm)	6.62(168)	7.50(190)	7.50(190)	8.50(216)
2F	inch(mm)	13.75(349)	14.5(368)	16.50(419)	18.00(457)
2E	inch(mm)	16.00(406)	18.00(457)	18.00(457)	20.00(508)
H	inch(mm)	0.81(21)	0.81(21)	0.81(21)	1.25(32)
Net Weight	lbs(kg)	1696(771)	2044(929)	2427(1103)	2586(1176)
Gross Weight	lbs(kg)	1945(884)	2297(1044)	2680(1218)	2883(1311)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	40.29(1.141)	41.18(1.166)	41.18(1.166)	53.14(1.505)

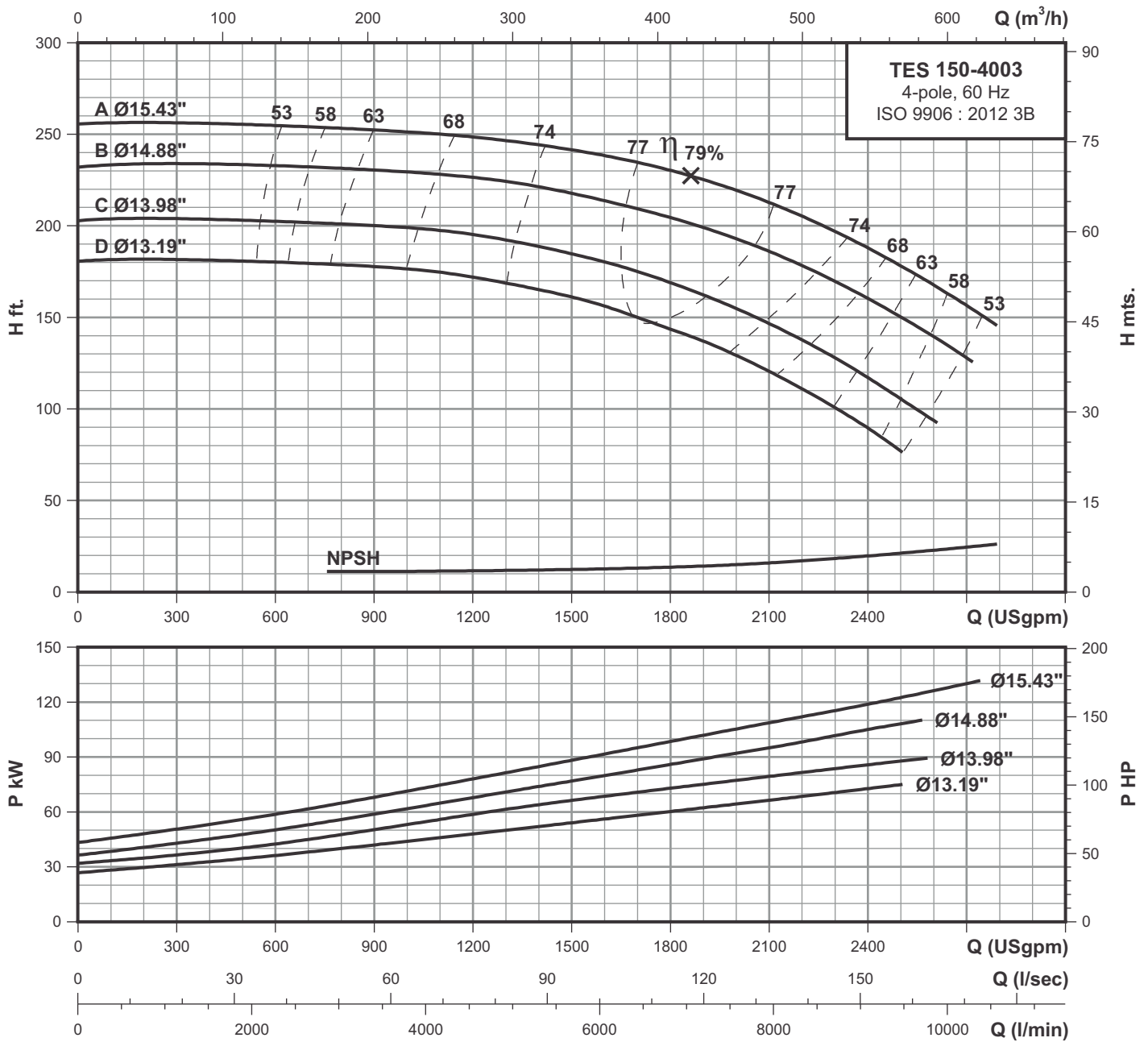
4 POLE



# Performance curves

Single-stage end-suction pumps

## TES 150-4003 4-pole



### Performance data at n=1750 rpm

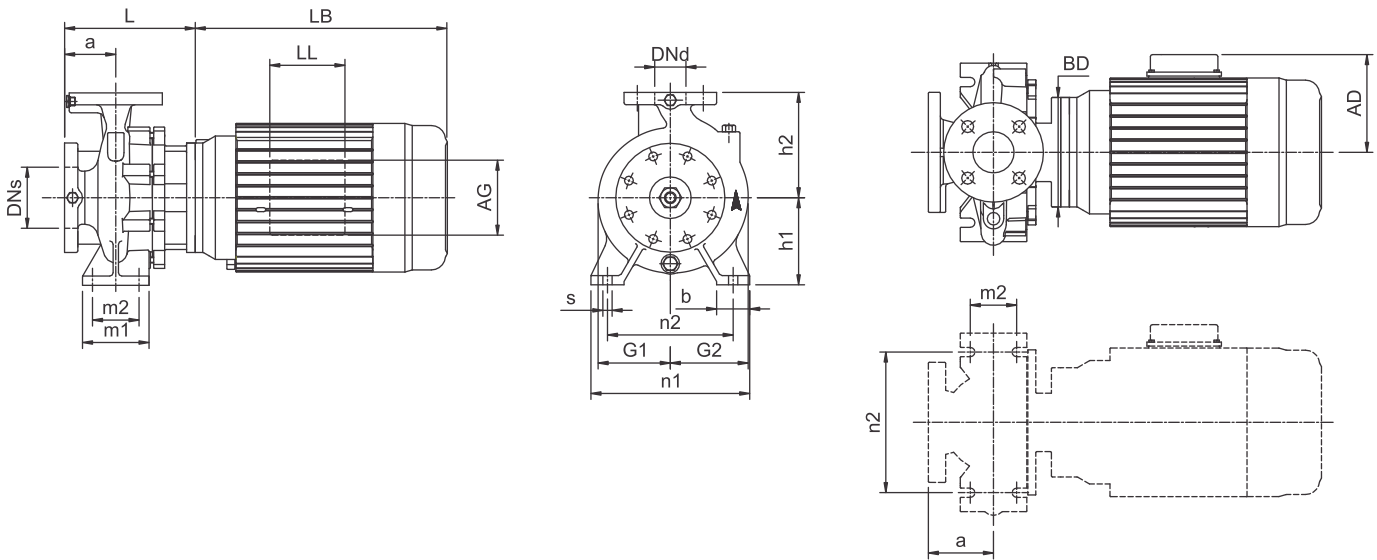
Model	Power		l/min USgpm	1136	2271	3407	4543	5678	6814	7949	9085	10221
	HP	kW		300	600	900	1200	1500	1800	2100	2400	2700
TES 150-4003D	100.0	75.0	H ft.	181.9	180	178	171.7	161	144	120.7	90	-
TES 150-4003C	125.0	90.0		203.6	202.3	200.3	195	185.2	168.8	147.2	117.6	-
TES 150-4003B	150.0	110.0		234.2	232.8	230.8	226.7	217.8	204.5	186.3	160.5	128.3
TES 150-4003A	200.0	150.0		256.1	254.6	252.5	248.3	242	230.2	212.5	187.9	156.4

# Technical data

## Single-stage end-suction pumps

# TES 80-2005

# 6-pole



Power	(hp)	1.5	2	3	4
	(kw)	1.1	1.5	2.2	3
Frame		182JM	184JM	213JM	215JM
ANSI flange		125	125	125	125
Code for Impeller diameter		D	C	B	A
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)	9.45(240)	9.45(240)	9.45(240)	9.45(240)
h1	inch(mm)	7.09(180)	7.09(180)	7.09(180)	7.09(180)
G1	inch(mm)	6.10(155)	6.10(155)	6.10(155)	6.10(155)
G2	inch(mm)	7.32(186)	7.32(186)	7.32(186)	7.32(186)
m1	inch(mm)	4.92(125)	4.92(125)	4.92(125)	4.92(125)
m2	inch(mm)	3.74(95)	3.74(95)	3.74(95)	3.74(95)
n1	inch(mm)	13.58(345)	13.58(345)	13.58(345)	13.58(345)
n2	inch(mm)	11.02(280)	11.02(280)	11.02(280)	11.02(280)
b	inch(mm)	2.56(65)	2.56(65)	2.56(65)	2.56(65)
s	inch(mm)	0.55(14)	0.55(14)	0.55(14)	0.55(14)
D	inch(mm)	-	-	-	-
LB	inch(mm)	13.31(338)	13.31(338)	14.92(379)	16.42(417)
AD	inch(mm)	6.46(164)	6.46(164)	7.40(188)	7.40(188)
AG	inch(mm)	3.98(101)	3.98(101)	5.16(131)	5.16(131)
LL	inch(mm)	3.98(101)	3.98(101)	5.16(131)	5.16(131)
BD	inch(mm)	6.50(165)	6.50(165)	8.86(225)	8.86(225)
BA	inch(mm)	-	-	-	-
2F	inch(mm)	-	-	-	-
2E	inch(mm)	-	-	-	-
H	inch(mm)	-	-	-	-
Net Weight	lbs(kg)	185(84)	192(87)	271(123)	276(126)
Gross Weight	lbs(kg)	207(94)	214(97)	390(177)	395(180)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	7.93(0.225)	7.93(0.225)	12.39(0.351)	12.39(0.351)

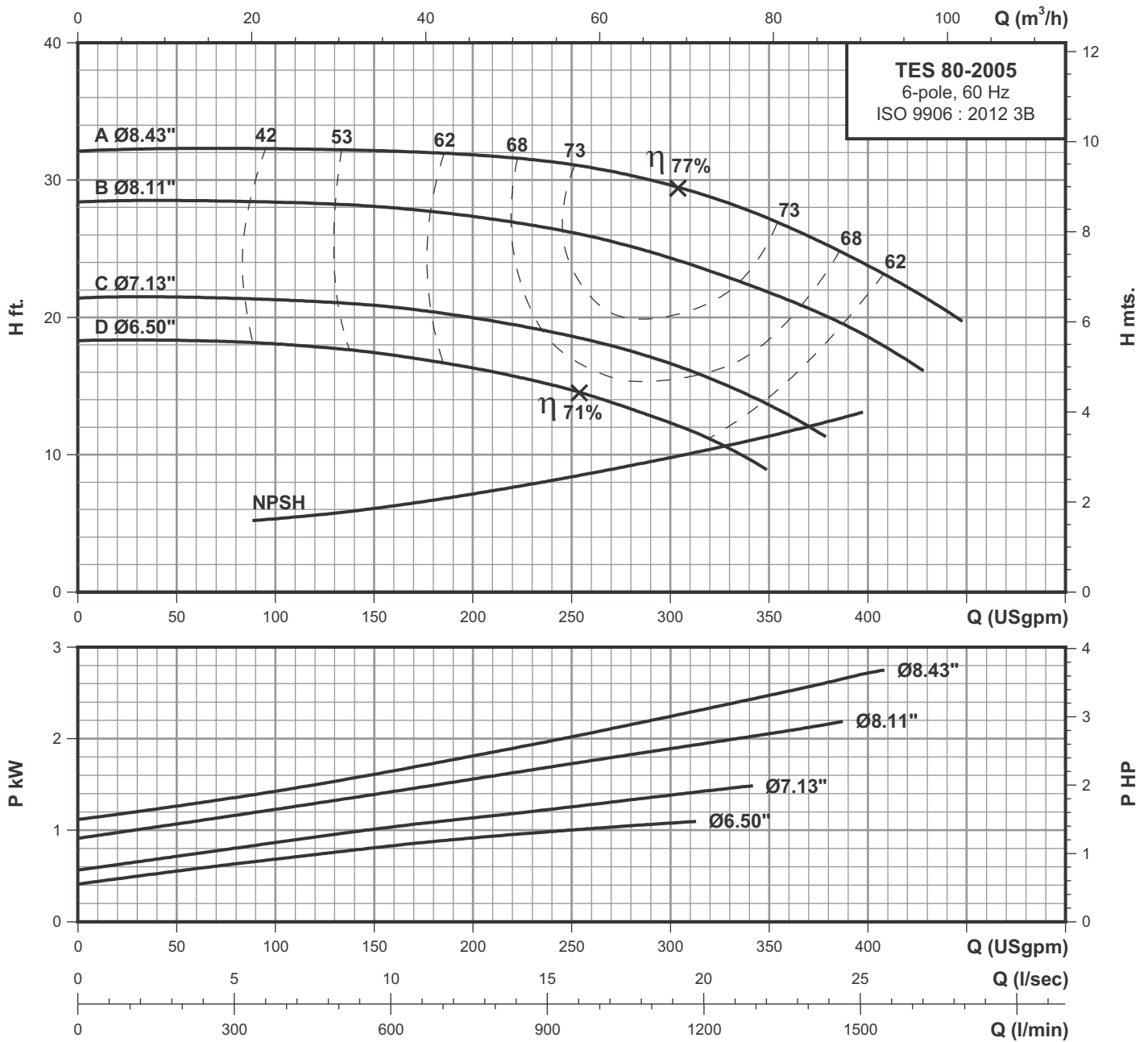
6 POLE

# Performance curves

Single-stage end-suction pumps

## TES 80-2005

## 6-pole



### Performance data at n=1150 rpm

Model	Power		l/min USgpm	189	379	568	757	946	1136	1325	1514
	HP	kW		50	100	150	200	250	300	350	400
TES 80-2005D	1.50	1.10	H ft.	18.3	18	17.4	16.3	14.7	12.3	-	-
TES 80-2005C	2.00	1.50		21.4	21.2	20.8	20	18.6	16.7	13.6	-
TES 80-2005B	3.00	2.20		28.4	28.3	28	27.3	26.2	24.4	21.8	18.6
TES 80-2005A	4.00	3.00		32.3	32.3	32.1	31.8	31.1	29.6	27.2	23.8

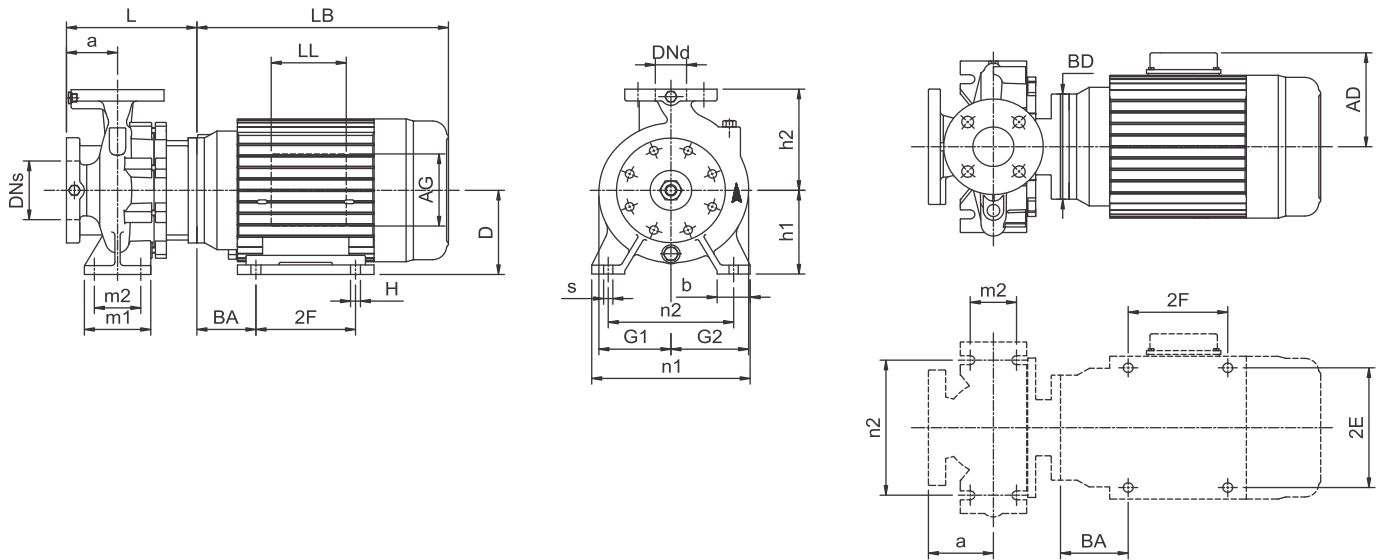
6 POLE

# Technical data

## Single-stage end-suction pumps

# TES 80-2505

# 6-pole



Power	(hp)	3	4	5	7.5
	(kw)	2.2	3	3.7	5.5
Frame		213JM	215JM	215JM	254JM
ANSI flange		125	125	125	125
Code for Impeller diameter		D	C	B	A
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)	9.29(236)	9.29(236)	9.29(236)	10.12(257)
h1	inch(mm)	7.87(200)	7.87(200)	7.87(200)	7.87(200)
G1	inch(mm)	7.01(178)	7.01(178)	7.01(178)	7.01(178)
G2	inch(mm)	8.03(204)	8.03(204)	8.03(204)	8.03(204)
m1	inch(mm)	6.30(160)	6.30(160)	6.30(160)	6.30(160)
m2	inch(mm)	4.72(120)	4.72(120)	4.72(120)	4.72(120)
n1	inch(mm)	15.75(400)	15.75(400)	15.75(400)	15.75(400)
n2	inch(mm)	12.40(315)	12.40(315)	12.40(315)	12.40(315)
b	inch(mm)	3.15(80)	3.15(80)	3.15(80)	3.15(80)
s	inch(mm)	0.71(18)	0.71(18)	0.71(18)	0.71(18)
D	inch(mm)	-	-	-	6.25(159)
LB	inch(mm)	14.92(379)	16.42(417)	16.42(417)	19.17(487)
AD	inch(mm)	7.40(188)	7.40(188)	7.40(188)	9.49(241)
AG	inch(mm)	5.16(131)	5.16(131)	5.16(131)	6.73(171)
LL	inch(mm)	5.16(131)	5.16(131)	5.16(131)	5.98(152)
BD	inch(mm)	8.86(225)	8.86(225)	8.86(225)	10.00(254)
BA	inch(mm)	-	-	-	4.25(108)
2F	inch(mm)	-	-	-	8.25(210)
2E	inch(mm)	-	-	-	10.00(254)
H	inch(mm)	-	-	-	0.53(13.5)
Net Weight	lbs(kg)	299(136)	305(138)	309(140)	366(167)
Gross Weight	lbs(kg)	321(146)	446(192)	428(204)	498(227)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	8.86(0.251)	12.39(0.351)	12.39(0.351)	15.22(0.431)

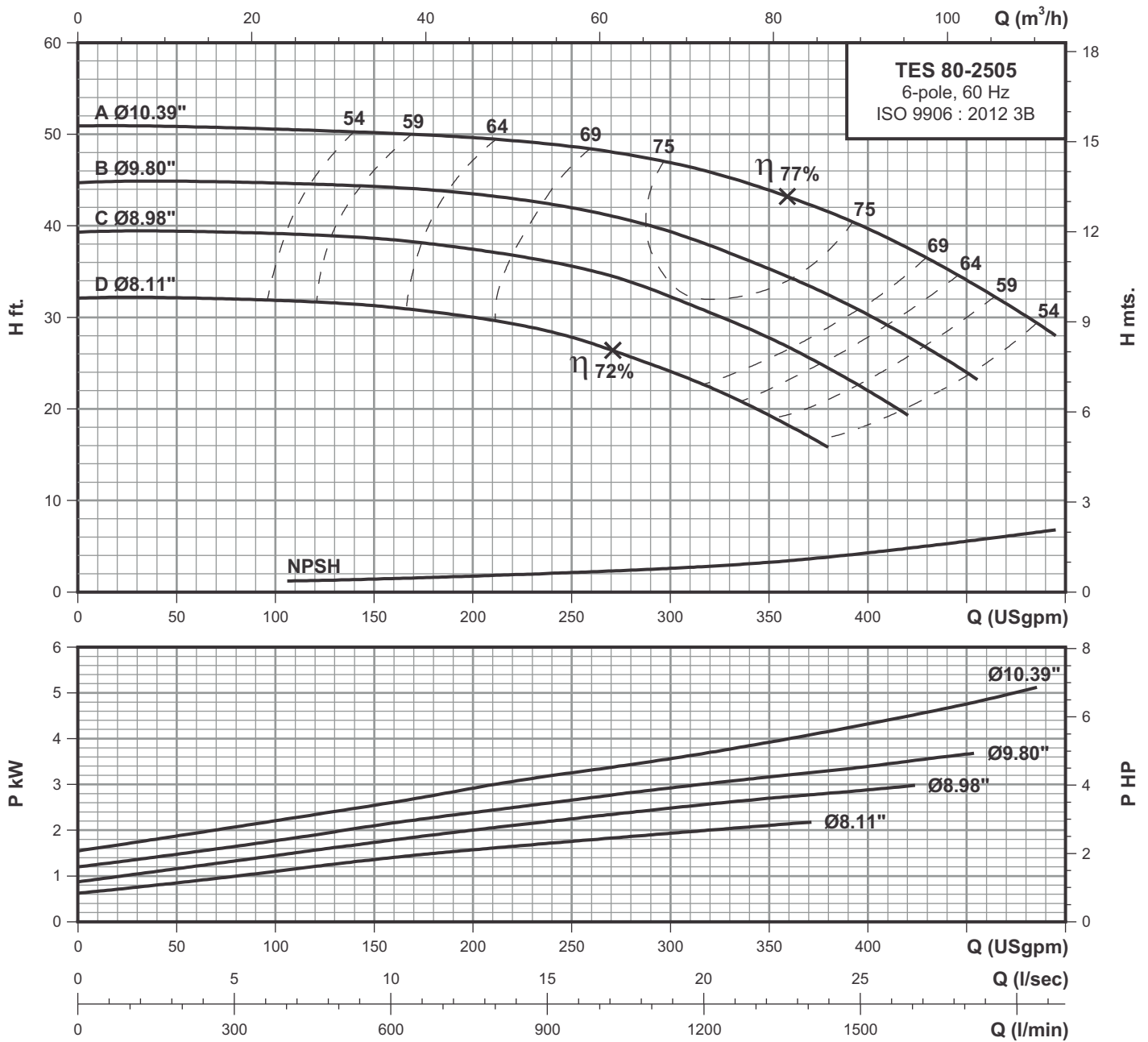
**6 POLE**

# Performance curves

Single-stage end-suction pumps

## TES 80-2505

### 6-pole



### Performance data at n=1150 rpm

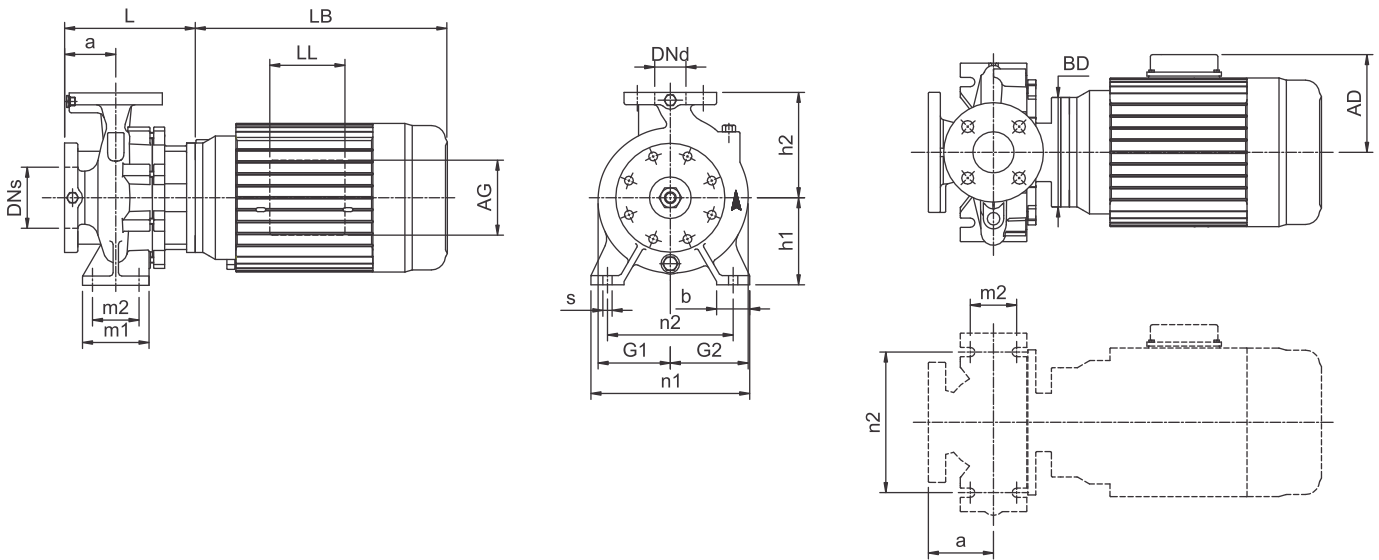
Model	Power		l/min USgpm	189	379	568	757	946	1136	1325	1514	1703
	HP	kW		50	100	150	200	250	300	350	400	450
TES 80-2505D	3.00	2.20	H ft.	32	31.8	31.2	30	27.8	24	19.3	-	-
TES 80-2505C	4.00	3.00		39.4	39	38.6	37.4	35.5	32.1	27.7	21.9	-
TES 80-2505B	5.00	3.70		44.8	44.6	44.3	43.4	41.9	39.4	35.2	30.2	24
TES 80-2505A	7.50	5.50		50.8	50.5	50.1	49.6	48.6	46.8	43.9	39.7	34

6 POLE

# Technical data

## Single-stage end-suction pumps

# TES 65-250L5 6-pole



Power	(hp)	3	4	5
	(kw)	2.2	3	3.7
Frame		213JM	215JM	215JM
ANSI flange		125	125	125
Code for Impeller diameter		C	B	A
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)	8.31(211)	8.31(211)	8.31(211)
h1	inch(mm)	7.87(200)	7.87(200)	7.87(200)
G1	inch(mm)	6.81(173)	6.81(173)	6.81(173)
G2	inch(mm)	7.72(196)	7.72(196)	7.72(196)
m1	inch(mm)	6.30(160)	6.30(160)	6.30(160)
m2	inch(mm)	4.72(120)	4.72(120)	4.72(120)
n1	inch(mm)	14.17(360)	14.17(360)	14.17(360)
n2	inch(mm)	11.02(280)	11.02(280)	11.02(280)
b	inch(mm)	3.15(80)	3.15(80)	3.15(80)
s	inch(mm)	0.71(18)	0.71(18)	0.71(18)
D	inch(mm)	-	-	-
LB	inch(mm)	14.92(379)	16.42(417)	16.42(417)
AD	inch(mm)	7.40(188)	7.40(188)	7.40(188)
AG	inch(mm)	5.16(131)	5.16(131)	5.16(131)
LL	inch(mm)	5.16(131)	5.16(131)	5.16(131)
BD	inch(mm)	8.86(225)	8.86(225)	8.86(225)
BA	inch(mm)	-	-	-
2F	inch(mm)	-	-	-
2E	inch(mm)	-	-	-
H	inch(mm)	-	-	-
Net Weight	lbs(kg)	290(132)	295(134)	300(136)
Gross Weight	lbs(kg)	312(142)	317(144)	322(146)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	7.93(0.225)	7.93(0.225)	7.93(0.225)

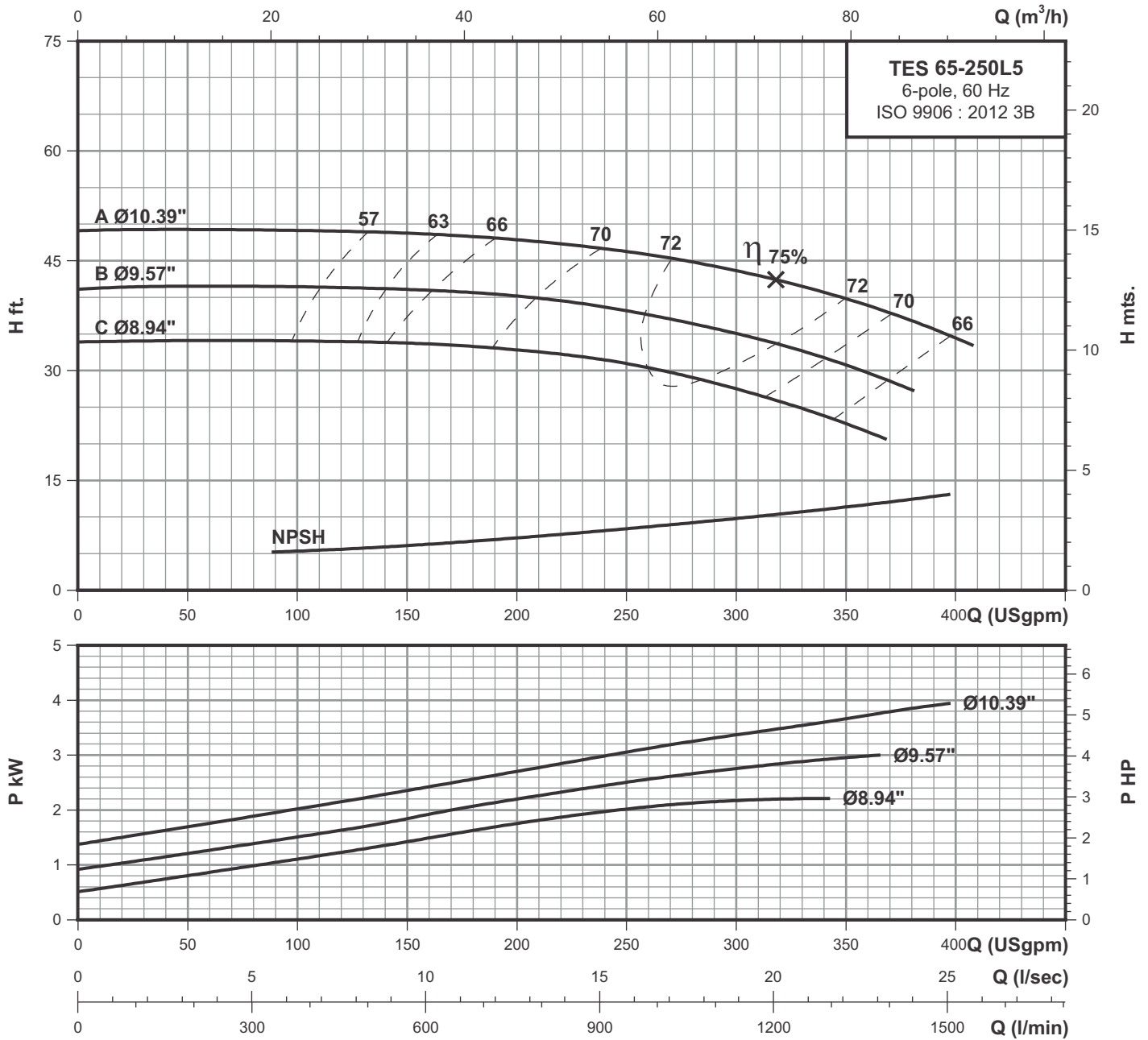
6 POLE

# Performance curves

Single-stage end-suction pumps

## TES 65-250L5

### 6-pole



### Performance data at n=1150 rpm

Model	Power		l/min USgpm	189	379	568	757	946	1136	1325	1514
	HP	kW		50	100	150	200	250	300	350	400
TES 65-250L5C	3.00	2.20	H ft.	34	34	33.7	32.8	30.9	27.5	22.7	-
TES 65-250L5B	4.00	3.00		41.5	41.3	41	40.3	38.1	35	30.7	-
TES 65-250L5A	5.00	3.70		49.3	49.1	48.7	47.8	46.3	43.7	39.8	34.5

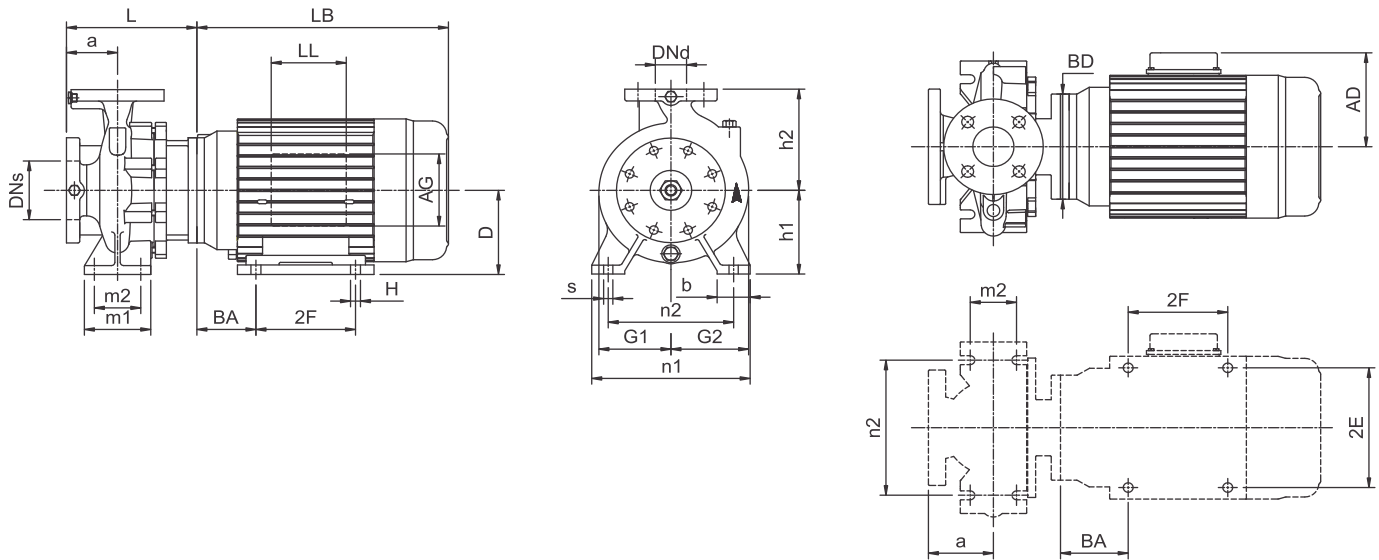
6 POLE

# Technical data

## Single-stage end-suction pumps

# TES 80-3155

# 6-pole



Power	(hp)	5	7.5	10
	(kw)	3.7	5.5	7.5
Frame		215JM	254JM	256JM
ANSI flange		125	125	125
Code for Impeller diameter		C	B	A
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)	9.65(245)	10.12(257)	10.12(257)
h1	inch(mm)	9.84(250)	9.84(250)	9.84(250)
G1	inch(mm)	8.03(204)	8.03(204)	8.03(204)
G2	inch(mm)	8.94(227)	8.94(227)	8.94(227)
m1	inch(mm)	6.30(160)	6.30(160)	6.30(160)
m2	inch(mm)	4.72(120)	4.72(120)	4.72(120)
n1	inch(mm)	15.75(400)	15.75(400)	15.75(400)
n2	inch(mm)	12.40(315)	12.40(315)	12.40(315)
b	inch(mm)	3.15(80)	3.15(80)	3.15(80)
s	inch(mm)	0.71(18)	0.71(18)	0.71(18)
D	inch(mm)	-	6.25(159)	6.25(159)
LB	inch(mm)	16.42(417)	19.17(487)	20.83(529)
AD	inch(mm)	7.40(188)	9.49(241)	9.49(241)
AG	inch(mm)	5.16(131)	6.73(171)	6.73(171)
LL	inch(mm)	5.16(131)	5.98(152)	5.98(152)
BD	inch(mm)	8.86(225)	10.00(254)	10.00(254)
BA	inch(mm)	-	4.25(108)	4.25(108)
2F	inch(mm)	-	8.25(210)	10.00(254)
2E	inch(mm)	-	10.00(254)	10.00(254)
H	inch(mm)	-	0.53(13.5)	0.53(13.5)
Net Weight	lbs(kg)	334(152)	392(178)	421(191)
Gross Weight	lbs(kg)	473(215)	553(251)	588(267)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	15.50(0.439)	20.20(0.572)	22.35(0.633)

6 POLE

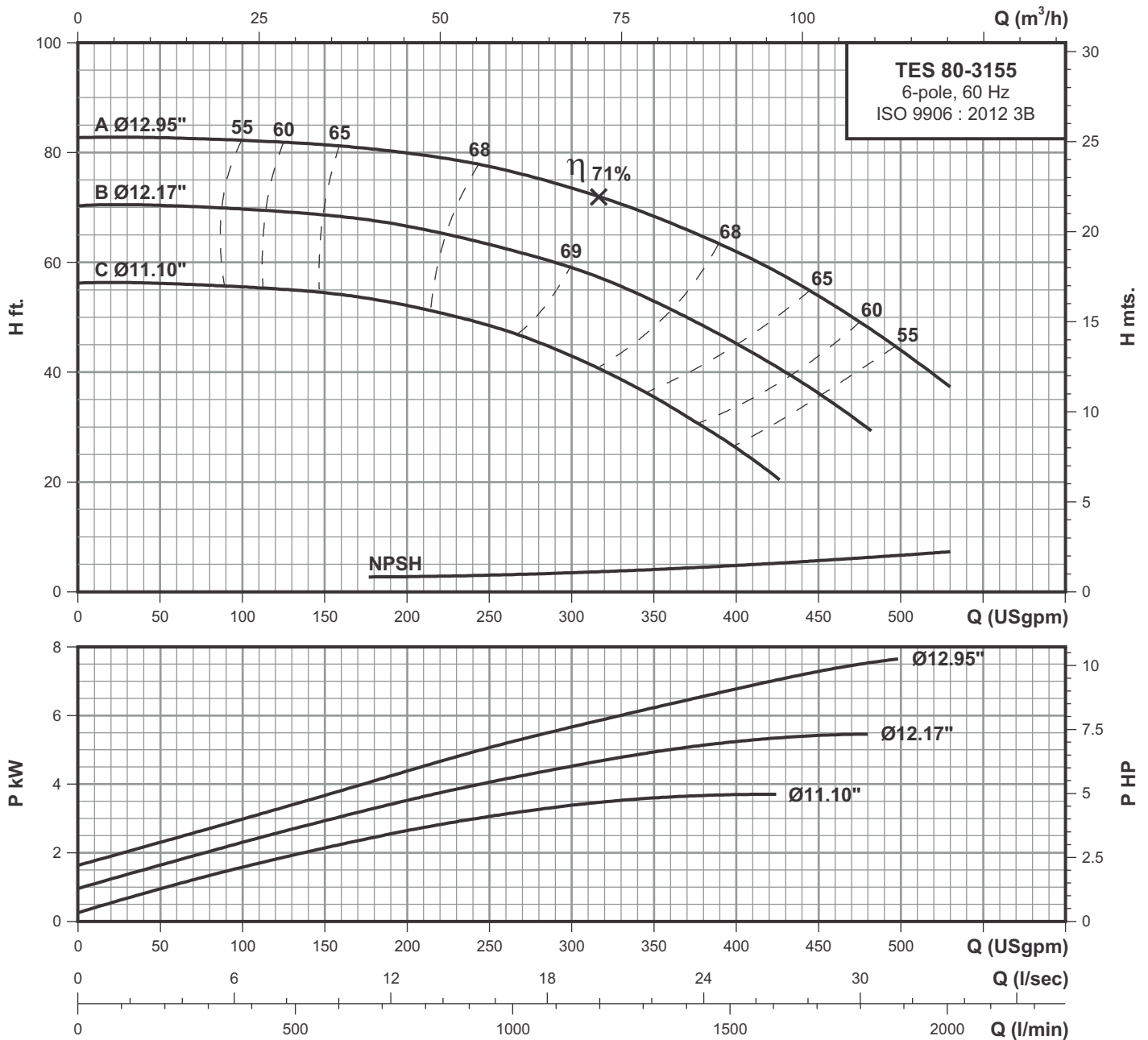


# Performance curves

Single-stage end-suction pumps

## TES 80-3155

## 6-pole



### Performance data at n=1150 rpm

Model	Power		l/min USgpm	189	379	568	757	946	1136	1325	1514	1703	1893
	HP	kW		50	100	150	200	250	300	350	400	450	500
TES 80-3155C	5.00	3.70	H ft.	56.1	55.5	54.5	52.2	48.5	42.9	35.5	26.2	-	-
TES 80-3155B	7.50	5.50		70.3	69.7	68.6	66.5	63.1	59	52.9	45.2	36.1	-
TES 80-3155A	10.0	7.50		82.6	82.2	81.4	80	77.4	73.6	68.4	61.8	53.8	44

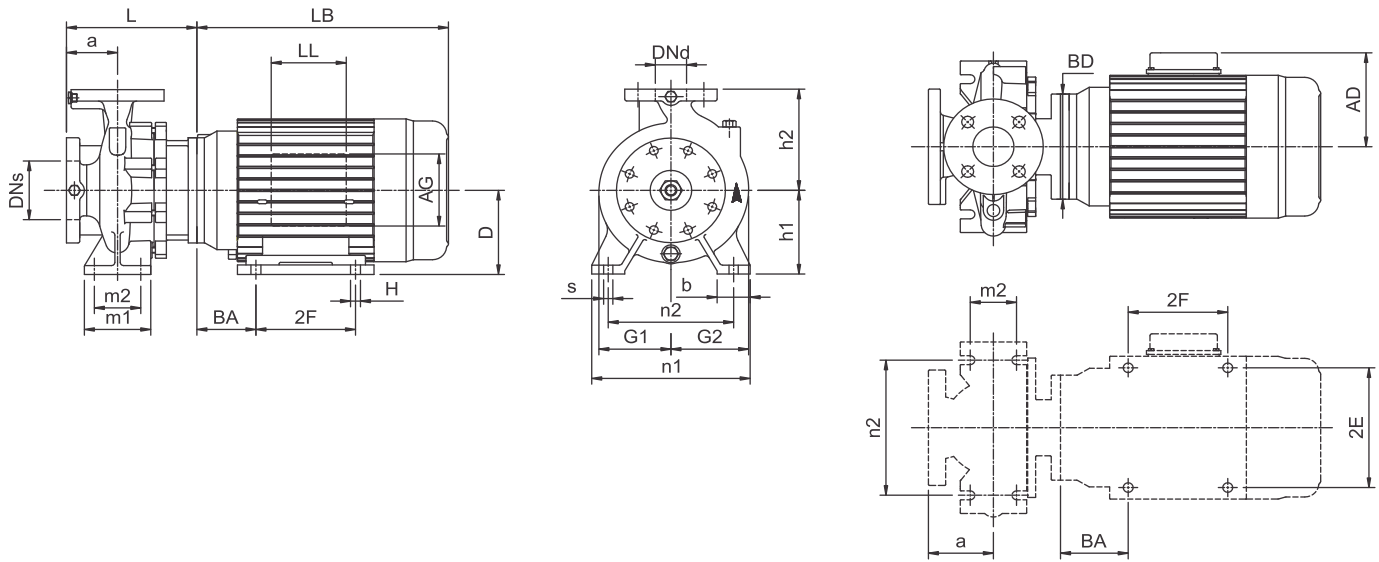
6 POLE

# Technical data

## Single-stage end-suction pumps

# TES 80-4005

# 6-pole



Power	(hp)	15	20	25
	(kw)	11	15	18.5
Frame		284JM	286JM	324JM
ANSI flange		125	125	125
Code for Impeller diameter		C	B	A
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)	11.10(282)	11.10(282)	11.10(282)
h1	inch(mm)	11.02(280)	11.02(280)	11.02(280)
G1	inch(mm)	10.00(254)	10.00(254)	10.00(254)
G2	inch(mm)	10.87(276)	10.87(276)	10.87(276)
m1	inch(mm)	6.30(160)	6.30(160)	6.30(160)
m2	inch(mm)	4.72(120)	4.72(120)	4.72(120)
n1	inch(mm)	17.13(435)	17.13(435)	17.13(435)
n2	inch(mm)	13.98(355)	13.98(355)	13.98(355)
b	inch(mm)	3.15(80)	3.15(80)	3.15(80)
s	inch(mm)	0.71(18)	0.71(18)	0.71(18)
D	inch(mm)	7.00(178)	7.00(178)	8.00(203)
LB	inch(mm)	23.70(602)	25.24(641)	27.09(688)
AD	inch(mm)	11.57(294)	11.57(294)	12.05(306)
AG	inch(mm)	10.35(263)	10.35(263)	10.35(263)
LL	inch(mm)	7.68(195)	7.68(195)	7.68(195)
BD	inch(mm)	14.00(356)	14.00(356)	14.00(356)
BA	inch(mm)	4.76(121)	4.76(121)	5.25(133)
2F	inch(mm)	9.50(241)	11.00(279)	10.50(267)
2E	inch(mm)	11.00(279)	11.00(279)	12.50(318)
H	inch(mm)	0.53(13.5)	0.53(13.5)	0.66(17)
Net Weight	lbs(kg)	660(300)	718(326)	834(379)
Gross Weight	lbs(kg)	854(388)	912(414)	1045(475)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	27.22(0.771)	27.22(0.771)	31.64(0.896)

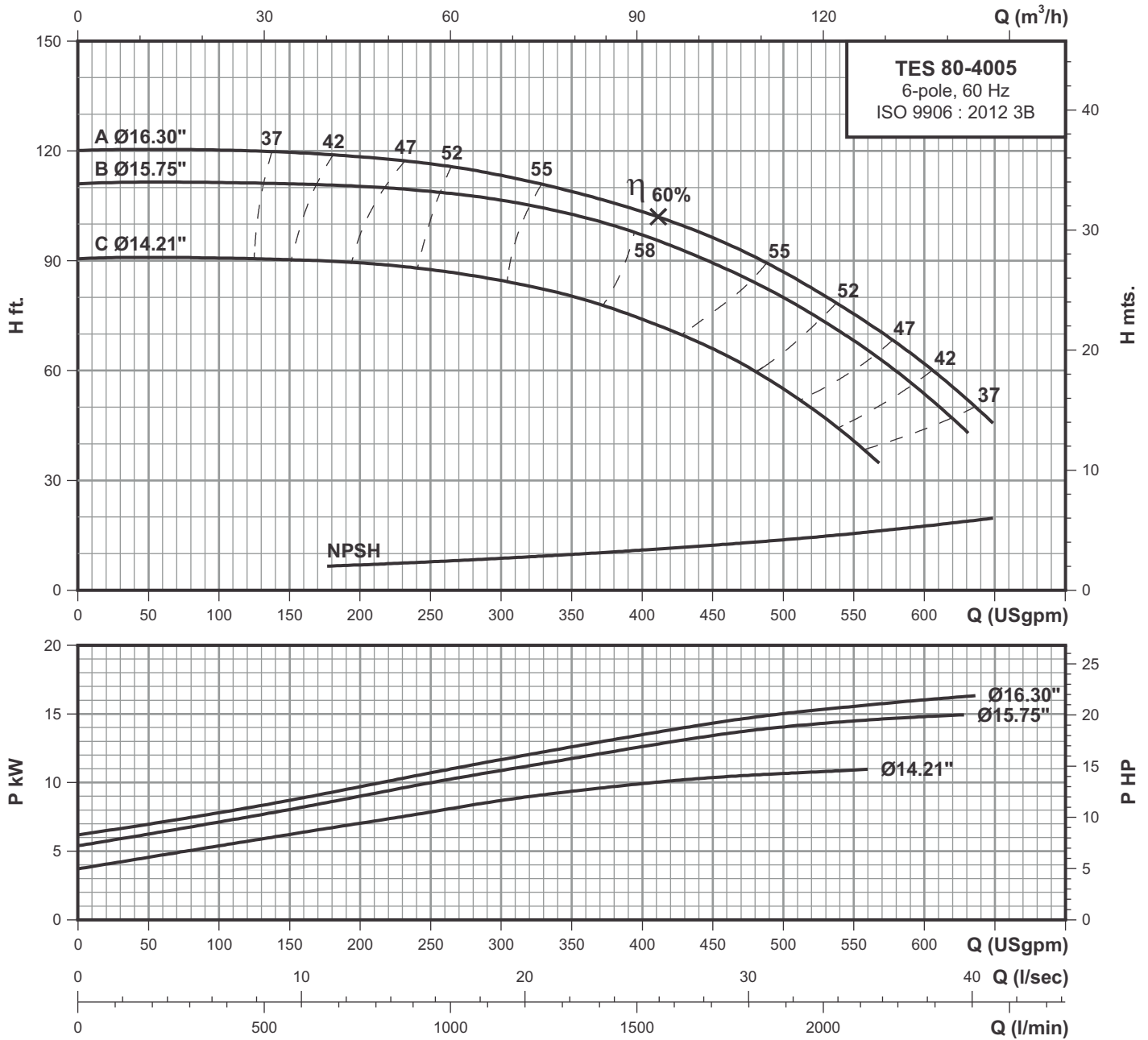
6 POLE

# Performance curves

Single-stage end-suction pumps

## TES 80-4005

## 6-pole



### Performance data at n=1150 rpm

Model	Power		l/min USgpm	379	568	757	946	1136	1325	1514	1703	1893	2082	2271
	HP	kW		100	150	200	250	300	350	400	450	500	550	600
TES 80-4005C	15.0	11.0	H ft.	90.8	90.2	89.3	87.7	84.5	80.3	74.1	66	54.8	40.5	-
TES 80-4005B	20.0	15.0		111.4	110.8	110.2	109	106.7	102.6	97.3	89.5	80	68.4	53.6
TES 80-4005A	25.0	18.5		120.2	119.6	118.3	116.5	113.3	109	103.6	96.4	87	75.6	61.8

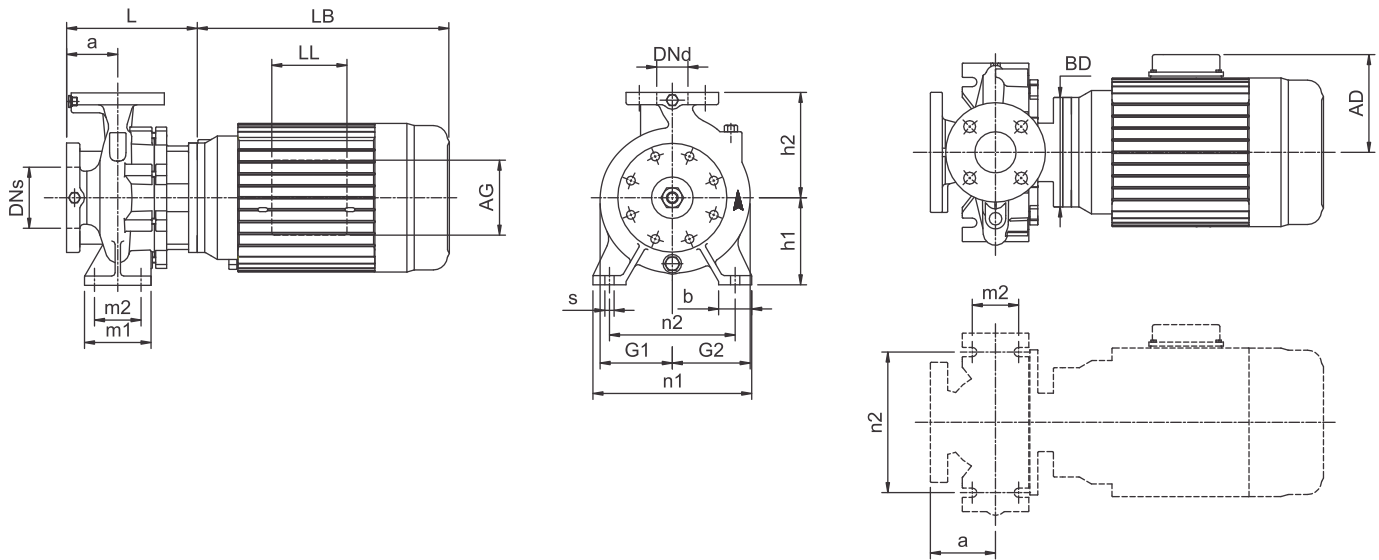
6 POLE

# Technical data

## Single-stage end-suction pumps

# TES 100-2005

# 6-pole



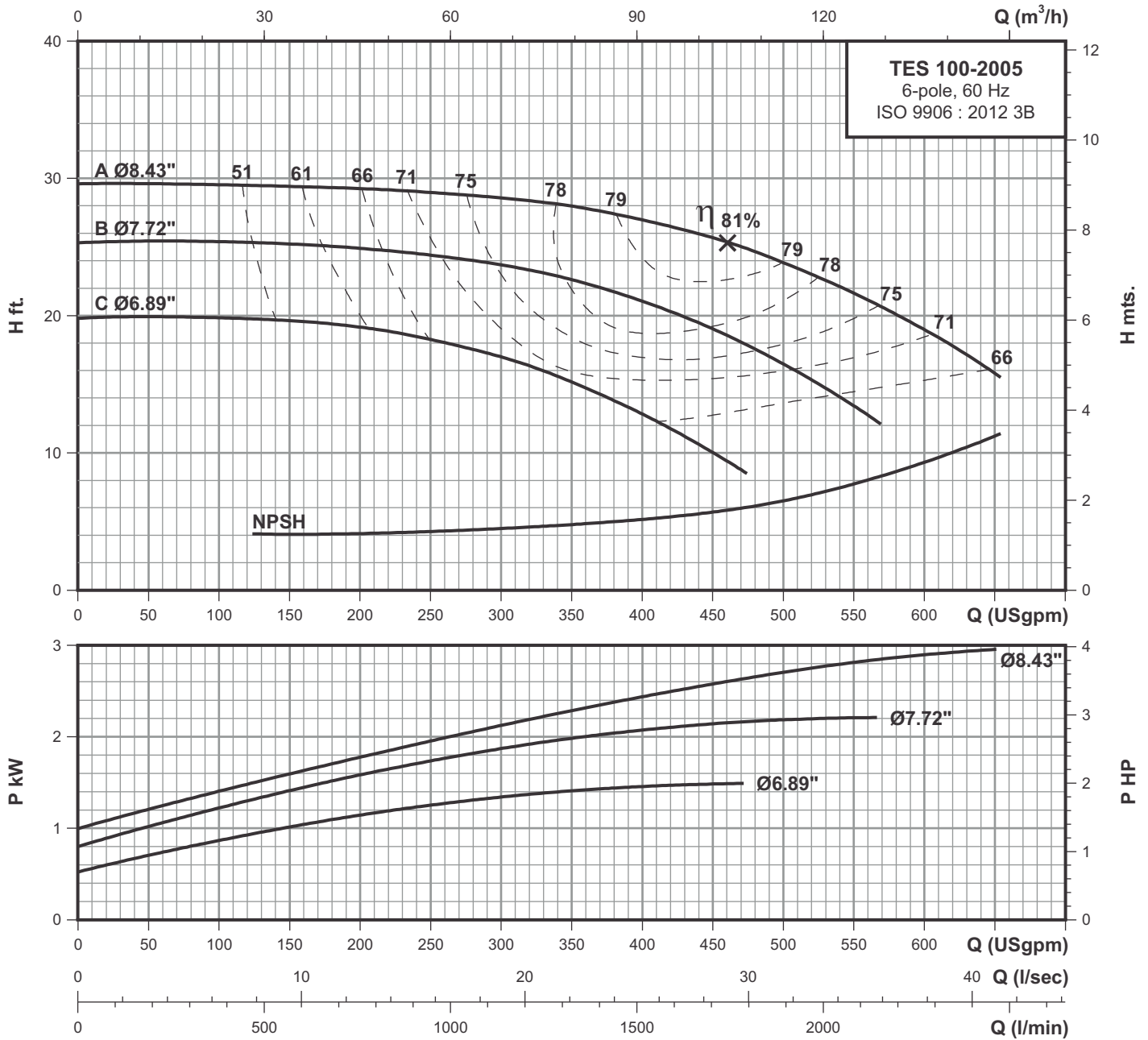
Power	(hp)	2	3	4
	(kw)	1.5	2.2	3
Frame		184JM	213JM	215JM
ANSI flange		125	125	125
Code for Impeller diameter		C	B	A
DN <sub>s</sub>	inch(mm)	5.00(125)	5.00(125)	5.00(125)
DN <sub>d</sub>	inch(mm)	4.00(100)	4.00(100)	4.00(100)
a	inch(mm)	4.92(125)	4.92(125)	4.92(125)
h <sub>2</sub>	inch(mm)	11.02(280)	11.02(280)	11.02(280)
L	inch(mm)	9.45(240)	9.45(240)	9.45(240)
h <sub>1</sub>	inch(mm)	7.87(200)	7.87(200)	7.87(200)
G <sub>1</sub>	inch(mm)	6.54(166)	6.54(166)	6.54(166)
G <sub>2</sub>	inch(mm)	7.95(202)	7.95(202)	7.95(202)
m <sub>1</sub>	inch(mm)	6.30(160)	6.30(160)	6.30(160)
m <sub>2</sub>	inch(mm)	4.72(120)	4.72(120)	4.72(120)
n <sub>1</sub>	inch(mm)	14.17(360)	14.17(360)	14.17(360)
n <sub>2</sub>	inch(mm)	11.02(280)	11.02(280)	11.02(280)
b	inch(mm)	3.15(80)	3.15(80)	3.15(80)
s	inch(mm)	0.71(18)	0.71(18)	0.71(18)
D	inch(mm)	-	-	-
LB	inch(mm)	13.31(338)	14.92(379)	16.42(417)
AD	inch(mm)	6.46(164)	7.40(188)	7.40(188)
AG	inch(mm)	3.98(101)	5.16(131)	5.16(131)
LL	inch(mm)	3.98(101)	5.16(131)	5.16(131)
BD	inch(mm)	6.50(165)	8.86(225)	8.86(225)
BA	inch(mm)	-	-	-
2F	inch(mm)	-	-	-
2E	inch(mm)	-	-	-
H	inch(mm)	-	-	-
Net Weight	lbs(kg)	215(98)	294(133)	299(136)
Gross Weight	lbs(kg)	237(108)	413(187)	418(190)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	7.93(0.225)	12.39(0.351)	12.39(0.351)

**6 POLE**

# Performance curves

Single-stage end-suction pumps

# TES 100-2005 6-pole



## Performance data at n=1150 rpm

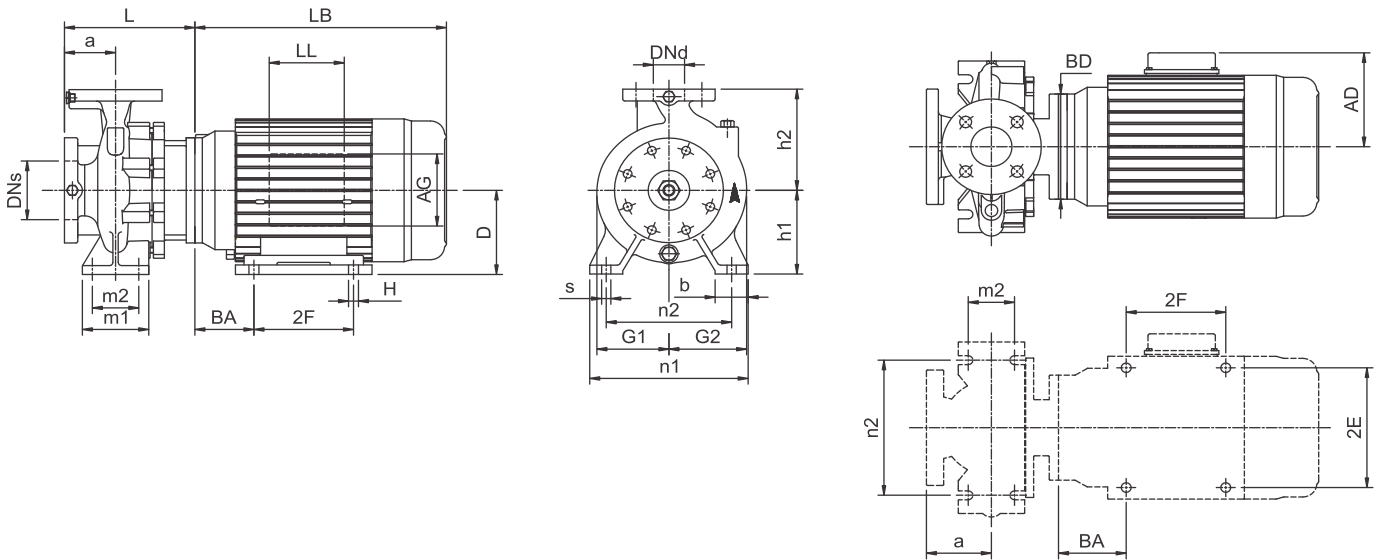
Model	Power		l/min USgpm	568	757	946	1136	1325	1514	1703	1893	2082	2271	2461
	HP	kW		150	200	250	300	350	400	450	500	550	600	650
TES 100-2005C	2.00	1.50	H ft.	19.6	19.2	18.3	17	15.2	12.8	10	-	-	-	-
TES 100-2005B	3.00	2.20		25.2	24.8	24.4	23.7	22.7	21	19	16.5	13.5	-	-
TES 100-2005A	4.00	3.00		29.4	29.3	29	28.6	28	27	26	23.8	21.7	19	15.7

**6 POLE**

# Technical data

## Single-stage end-suction pumps

# TES 100-2505 6-pole



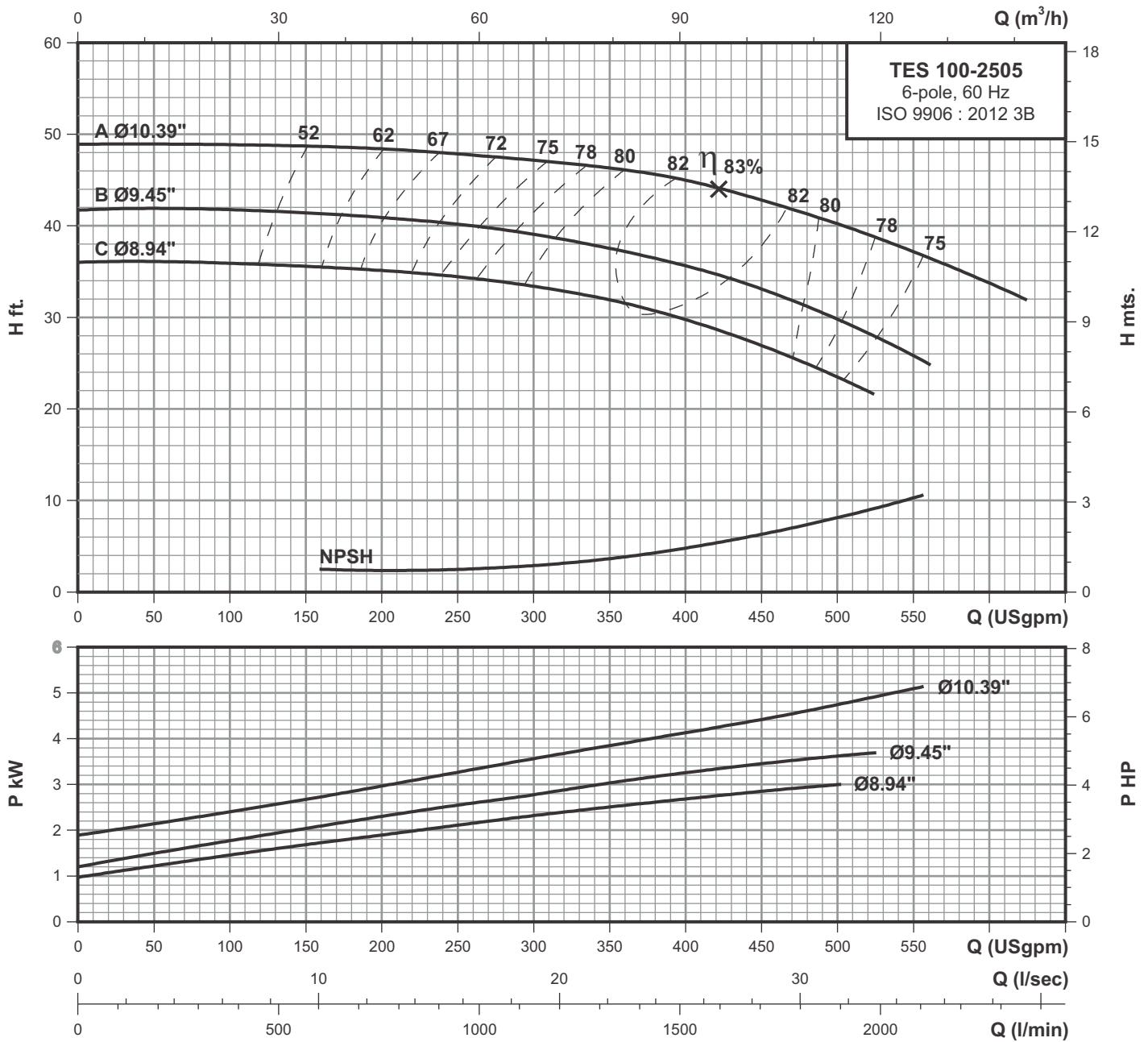
Power	(hp)	4	5	7.5
	(kw)	3	3.7	5.5
Frame		215JM	215JM	254JM
ANSI flange		125	125	125
Code for Impeller diameter		C	B	A
DNs	inch(mm)	5.00(125)	5.00(125)	5.00(125)
Dnd	inch(mm)	4.00(100)	4.00(100)	4.00(100)
a	inch(mm)	5.51(140)	5.51(140)	5.51(140)
h2	inch(mm)	11.02(280)	11.02(280)	11.02(280)
L	inch(mm)	9.88(251)	9.88(251)	10.71(272)
h1	inch(mm)	8.86(225)	8.86(225)	8.86(225)
G1	inch(mm)	7.24(184)	7.24(184)	7.24(184)
G2	inch(mm)	8.43(214)	8.43(214)	8.43(214)
m1	inch(mm)	6.30(160)	6.30(160)	6.30(160)
m2	inch(mm)	4.72(120)	4.72(120)	4.72(120)
n1	inch(mm)	15.75(400)	15.75(400)	15.75(400)
n2	inch(mm)	12.40(315)	12.40(315)	12.40(315)
b	inch(mm)	3.15(80)	3.15(80)	3.15(80)
s	inch(mm)	0.71(18)	0.71(18)	0.71(18)
D	inch(mm)	-	-	6.25(159)
LB	inch(mm)	16.42(417)	16.42(417)	19.17(487)
AD	inch(mm)	7.40(188)	7.40(188)	9.49(241)
AG	inch(mm)	5.16(131)	5.16(131)	6.73(171)
LL	inch(mm)	5.16(131)	5.16(131)	5.98(152)
BD	inch(mm)	8.86(225)	8.86(225)	10.00(254)
BA	inch(mm)	-	-	4.25(108)
2F	inch(mm)	-	-	8.25(210)
2E	inch(mm)	-	-	10.00(254)
H	inch(mm)	-	-	0.53(13.5)
Net Weight	lbs(kg)	327(148)	331(150)	388(177)
Gross Weight	lbs(kg)	446(202)	450(204)	520(237)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	12.39(0.351)	12.39(0.351)	15.22(0.431)

6 POLE

# Performance curves

Single-stage end-suction pumps

## TES 100-2505 6-pole



### Performance data at n=1150 rpm

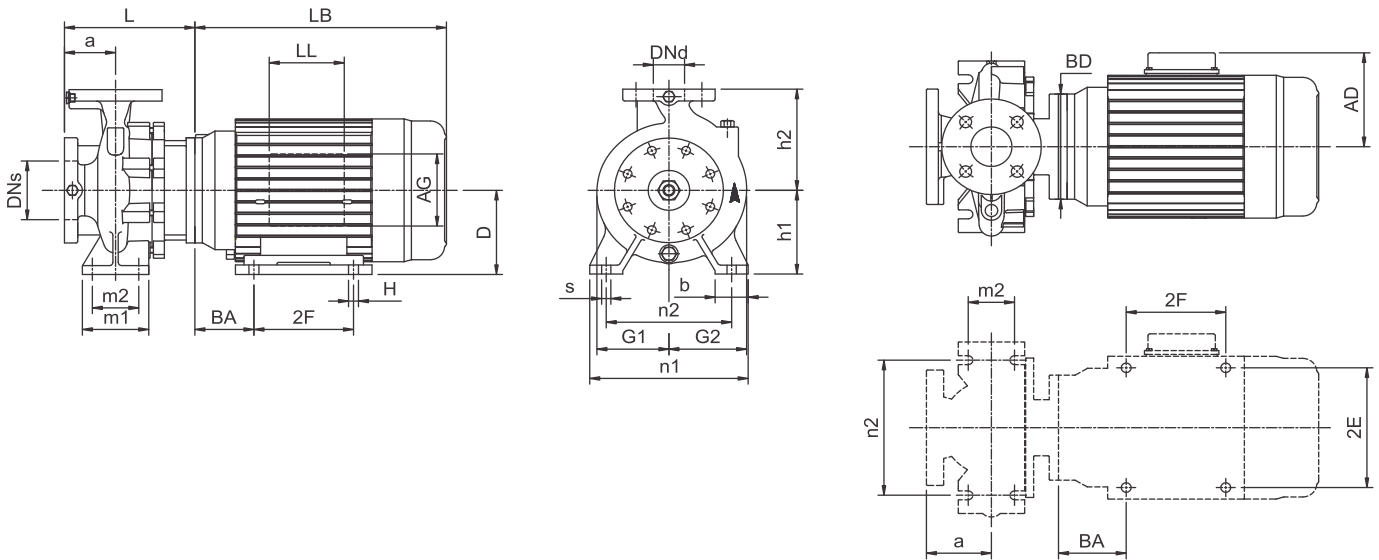
Model	Power		l/min USgpm	379	568	757	946	1136	1325	1514	1703	1893	2082	2271
	HP	kW		100	150	200	250	300	350	400	450	500	550	600
LES 100-2505C	4.00	3.00	H ft.	36	35.5	35.1	34.4	33.4	32	29.8	26.8	23.5	-	-
LES 100-2505B	5.00	3.70		41.7	41.4	40.8	40.1	39.1	37.5	35.6	33.2	29.8	26	-
LES 100-2505A	7.50	5.50		48.8	48.6	48.4	47.8	47.1	46.2	45	42.7	40.2	37.3	33.8

6 POLE

# Technical data

## Single-stage end-suction pumps

# TES 100-3155 6-pole



Power	(hp)	7.5	10	15
	(kw)	5.5	7.5	11
Frame		254JM	256JM	284JM
ANSI flange		125	125	125
Code for Impeller diameter		D	C	A
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)	10.71(272)	10.71(272)	10.71(272)
h1	inch(mm)	9.84(250)	9.84(250)	9.84(250)
G1	inch(mm)	8.39(213)	8.39(213)	8.39(213)
G2	inch(mm)	9.65(245)	9.65(245)	9.65(245)
m1	inch(mm)	6.30(160)	6.30(160)	6.30(160)
m2	inch(mm)	4.72(120)	4.72(120)	4.72(120)
n1	inch(mm)	15.75(400)	15.75(400)	15.75(400)
n2	inch(mm)	12.40(315)	12.40(315)	12.40(315)
b	inch(mm)	3.15(80)	3.15(80)	3.15(80)
s	inch(mm)	0.71(18)	0.71(18)	0.71(18)
D	inch(mm)	6.25(159)	6.25(159)	7.00(178)
LB	inch(mm)	19.17(487)	20.83(529)	23.70(602)
AD	inch(mm)	9.49(241)	9.49(241)	11.57(294)
AG	inch(mm)	6.73(171)	6.73(171)	10.35(263)
LL	inch(mm)	5.98(152)	5.98(152)	7.68(195)
BD	inch(mm)	10.00(254)	10.00(254)	14.00(356)
BA	inch(mm)	4.25(108)	4.25(108)	4.76(121)
2F	inch(mm)	8.25(210)	10.00(254)	9.50(241)
2E	inch(mm)	10.00(254)	10.00(254)	11.00(279)
H	inch(mm)	0.53(13.5)	0.53(13.5)	0.53(13.5)
Net Weight	lbs(kg)	416(189)	445(202)	636(289)
Gross Weight	lbs(kg)	577(262)	612(278)	803(365)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	20.20(0.572)	22.35(0.633)	22.35(0.633)

6 POLE

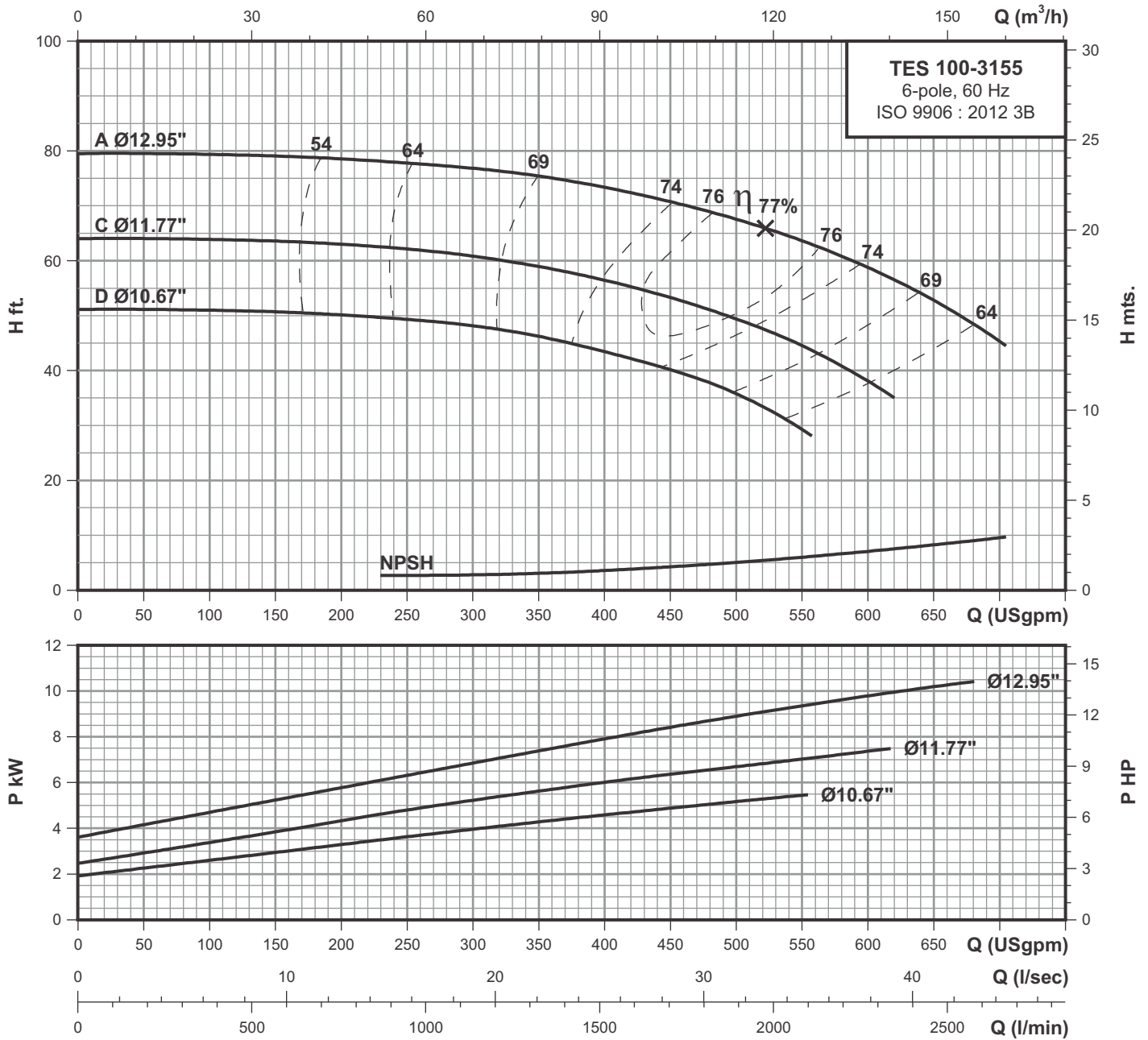


# Performance curves

Single-stage end-suction pumps

## TES 100-3155

### 6-pole



### Performance data at n=1150 rpm

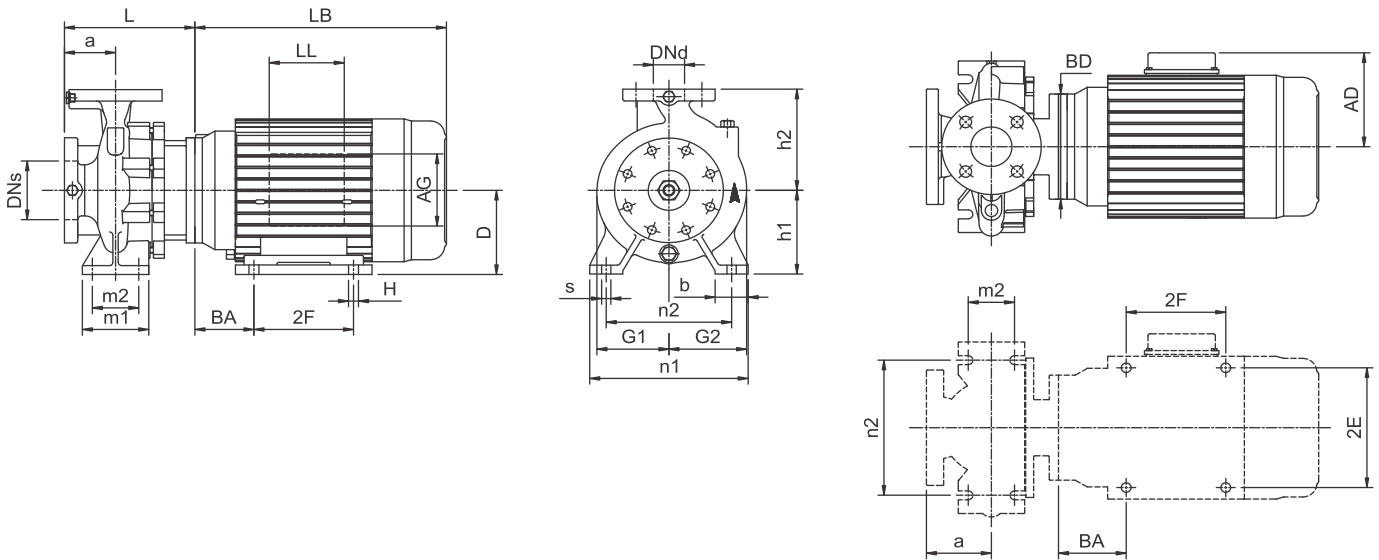
Model	Power		l/min USgpm	757	946	1136	1325	1514	1703	1893	2082	2271	2461	2650
	HP	kW		H ft.	200	250	300	350	400	450	500	550	600	650
TES 100-3155D	7.50	5.50	H ft.	50	49.4	48.1	46.1	43.5	40.2	35.7	28.8	-	-	-
TES 100-3155C	10.0	7.50		63	62.1	60.7	58.8	56.3	53.4	49.4	44.4	38.1	-	-
TES 100-3155A	15.0	11.0		78.5	77.8	76.8	75.3	73.2	70.7	67.6	63.8	58.8	53	45.4

6 POLE

# Technical data

## Single-stage end-suction pumps

# TES 100-4005 6-pole



Power	(hp)	15	20	25	30
	(kw)	11	15	18.5	22
Frame		284JM	286JM	324JM	326JM
ANSI flange		125	125	125	125
Code for Impeller diameter		D	C	B	A
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)	11.10(282)	11.10(282)	11.10(282)	11.10(282)
h1	inch(mm)	11.02(280)	11.02(280)	11.02(280)	11.02(280)
G1	inch(mm)	10.00(254)	10.00(254)	10.00(254)	10.00(254)
G2	inch(mm)	10.98(279)	10.98(279)	10.98(279)	10.98(279)
m1	inch(mm)	7.87(200)	7.87(200)	7.87(200)	7.87(200)
m2	inch(mm)	5.91(150)	5.91(150)	5.91(150)	5.91(150)
n1	inch(mm)	19.69(500)	19.69(500)	19.69(500)	19.69(500)
n2	inch(mm)	15.75(400)	15.75(400)	15.75(400)	15.75(400)
b	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
s	inch(mm)	0.87(22)	0.87(22)	0.87(22)	0.87(22)
D	inch(mm)	7.00(178)	7.00(178)	8.00(203)	8.00(203)
LB	inch(mm)	23.70(602)	25.24(641)	27.09(688)	27.09(688)
AD	inch(mm)	11.57(294)	11.57(294)	12.05(306)	12.05(306)
AG	inch(mm)	10.35(263)	10.35(263)	10.35(263)	10.35(263)
LL	inch(mm)	7.68(195)	7.68(195)	7.68(195)	7.68(195)
BD	inch(mm)	14.00(356)	14.00(356)	14.00(356)	14.00(356)
BA	inch(mm)	4.76(121)	4.76(121)	5.25(133)	5.25(133)
2F	inch(mm)	9.50(241)	11.00(279)	10.50(267)	12.00(305)
2E	inch(mm)	11.00(279)	11.00(279)	12.50(318)	12.50(318)
H	inch(mm)	0.53(13.5)	0.53(13.5)	0.66(17)	0.66(17)
Net Weight	lbs(kg)	697(317)	755(343)	871(396)	897(408)
Gross Weight	lbs(kg)	875(398)	949(431)	1082(492)	1108(504)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	24.05(0.681)	27.22(0.771)	31.64(0.896)	31.64(0.896)

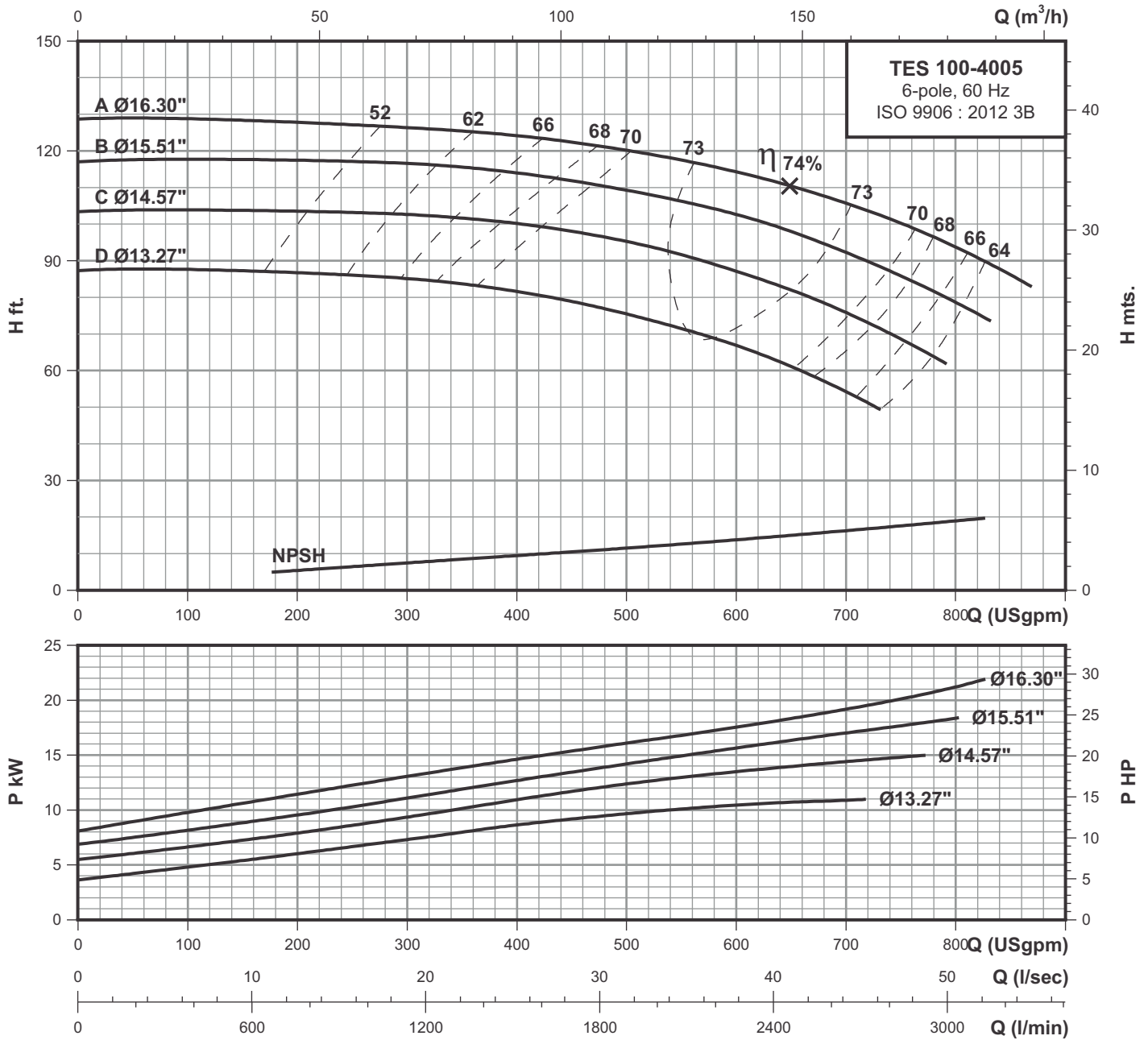
6 POLE

# Performance curves

Single-stage end-suction pumps

## TES 100-4005

### 6-pole



### Performance data at n=1150 rpm

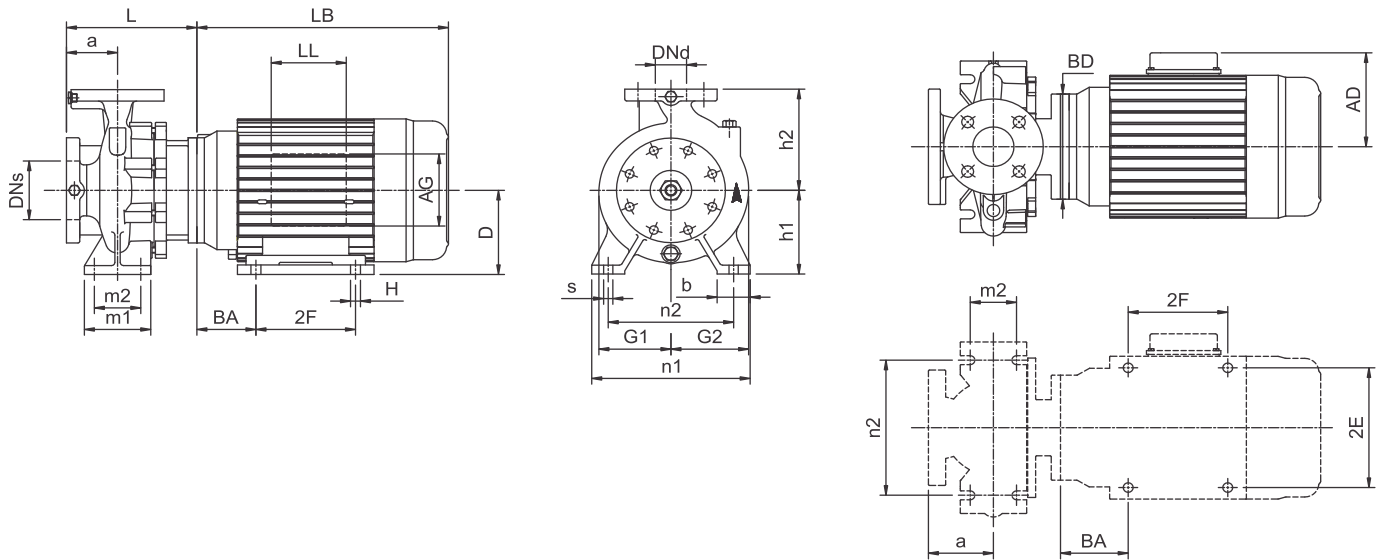
Model	Power		l/min USgpm	379	757	1136	1514	1893	2271	2650	3028
	HP	kW		100	200	300	400	500	600	700	800
TES 100-4005D	15.0	11.0	H ft.	87.5	86.7	85.3	81.6	75.6	67.1	54.4	-
TES 100-4005C	20.0	15.0		103.8	103.5	102.6	100.2	95.3	87.3	76	-
TES 100-4005B	25.0	18.5		117.5	117.5	116.5	114	109.4	102.7	92.1	78.5
TES 100-4005A	30.0	22.0		128.6	127.9	126.3	124.2	120.2	114.5	105.4	93.6

6 POLE

# Technical data

## Single-stage end-suction pumps

# TES 125-2505 6-pole



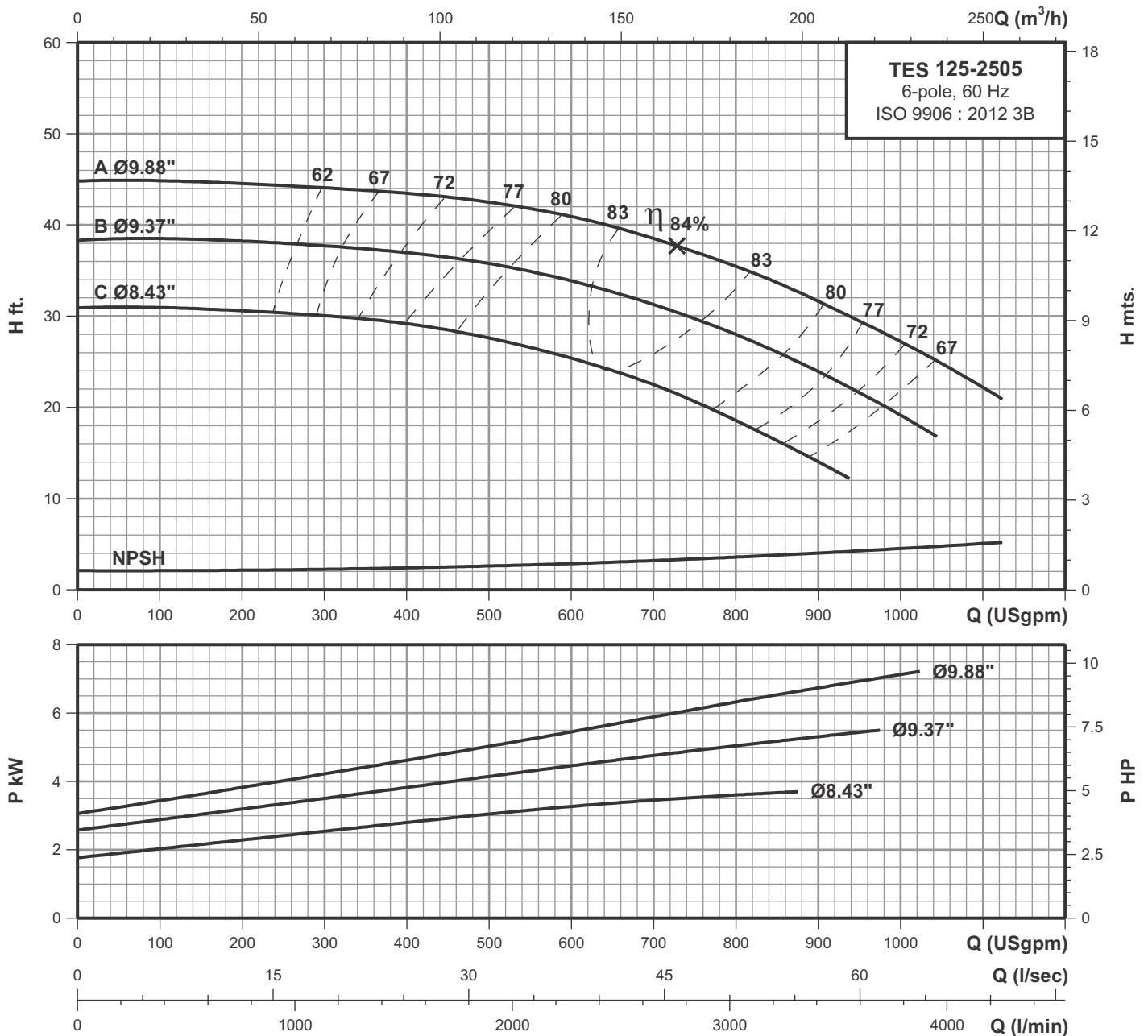
Power	(hp)	5	7.5	10
	(kw)	3.7	5.5	7.5
Frame		215JM	254JM	256JM
ANSI flange		125	125	125
Code for Impeller diameter		C	B	A
DNs	inch(mm)	6.00(150)	6.00(150)	6.00(150)
Dnd	inch(mm)	5.00(125)	5.00(125)	5.00(125)
a	inch(mm)	5.51(140)	5.51(140)	5.51(140)
h2	inch(mm)	13.98(355)	13.98(355)	13.98(355)
L	inch(mm)	10.31(262)	10.71(272)	10.71(272)
h1	inch(mm)	9.84(250)	9.84(250)	9.84(250)
G1	inch(mm)	8.11(206)	8.11(206)	8.11(206)
G2	inch(mm)	9.84(250)	9.84(250)	9.84(250)
m1	inch(mm)	6.30(160)	6.30(160)	6.30(160)
m2	inch(mm)	4.72(120)	4.72(120)	4.72(120)
n1	inch(mm)	15.75(400)	15.75(400)	15.75(400)
n2	inch(mm)	12.40(315)	12.40(315)	12.40(315)
b	inch(mm)	3.15(80)	3.15(80)	3.15(80)
s	inch(mm)	0.71(18)	0.71(18)	0.71(18)
D	inch(mm)	-	6.25(159)	6.25(159)
LB	inch(mm)	16.42(417)	19.17(487)	20.83(529)
AD	inch(mm)	7.40(188)	9.49(241)	9.49(241)
AG	inch(mm)	5.16(131)	6.73(171)	6.73(171)
LL	inch(mm)	5.16(131)	5.98(152)	5.98(152)
BD	inch(mm)	8.86(225)	10.00(254)	10.00(254)
BA	inch(mm)	-	4.25(108)	4.25(108)
2F	inch(mm)	-	8.25(210)	10.00(254)
2E	inch(mm)	-	10.00(254)	10.00(254)
H	inch(mm)	-	0.53(13.5)	0.53(13.5)
Net Weight	lbs(kg)	388(177)	446(203)	474(216)
Gross Weight	lbs(kg)	527(240)	607(276)	641(292)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	15.50(0.439)	20.20(0.572)	22.35(0.633)

6 POLE

# Performance curves

Single-stage end-suction pumps

# TES 125-2505 6-pole



## Performance data at n=1150 rpm

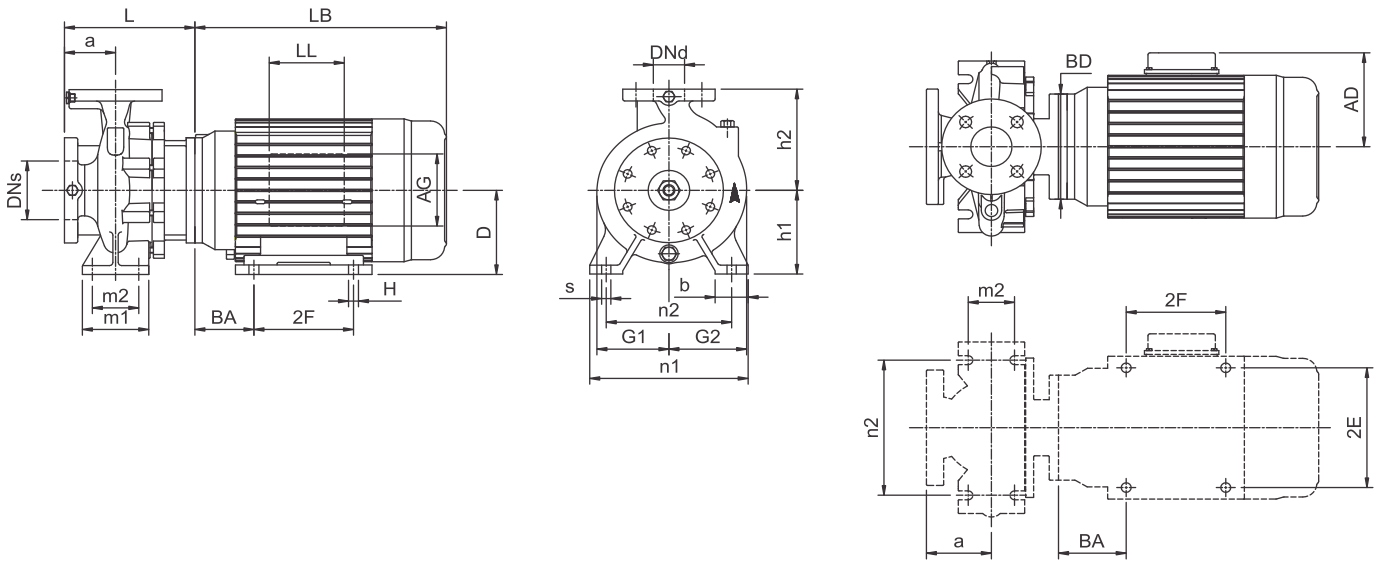
Model	Power		l/min USgpm	379	757	1136	1514	1893	2271	2650	3028	3407	3785	4164
	HP	kW		100	200	300	400	500	600	700	800	900	1000	1100
TES 125-2505C	5.00	3.70	H ft.	30.9	30.5	30	29.2	27.6	25.4	22.4	18.5	14.1	-	-
TES 125-2505B	7.50	5.50		38.4	38.2	37.7	37	35.8	33.8	31.3	28	24	19.1	-
TES 125-2505A	10.0	7.50		44.8	44.5	44	43.5	42.4	40.9	38.5	35.5	31.6	27.2	22.2

6 POLE

# Technical data

## Single-stage end-suction pumps

# TES 125-3155 6-pole



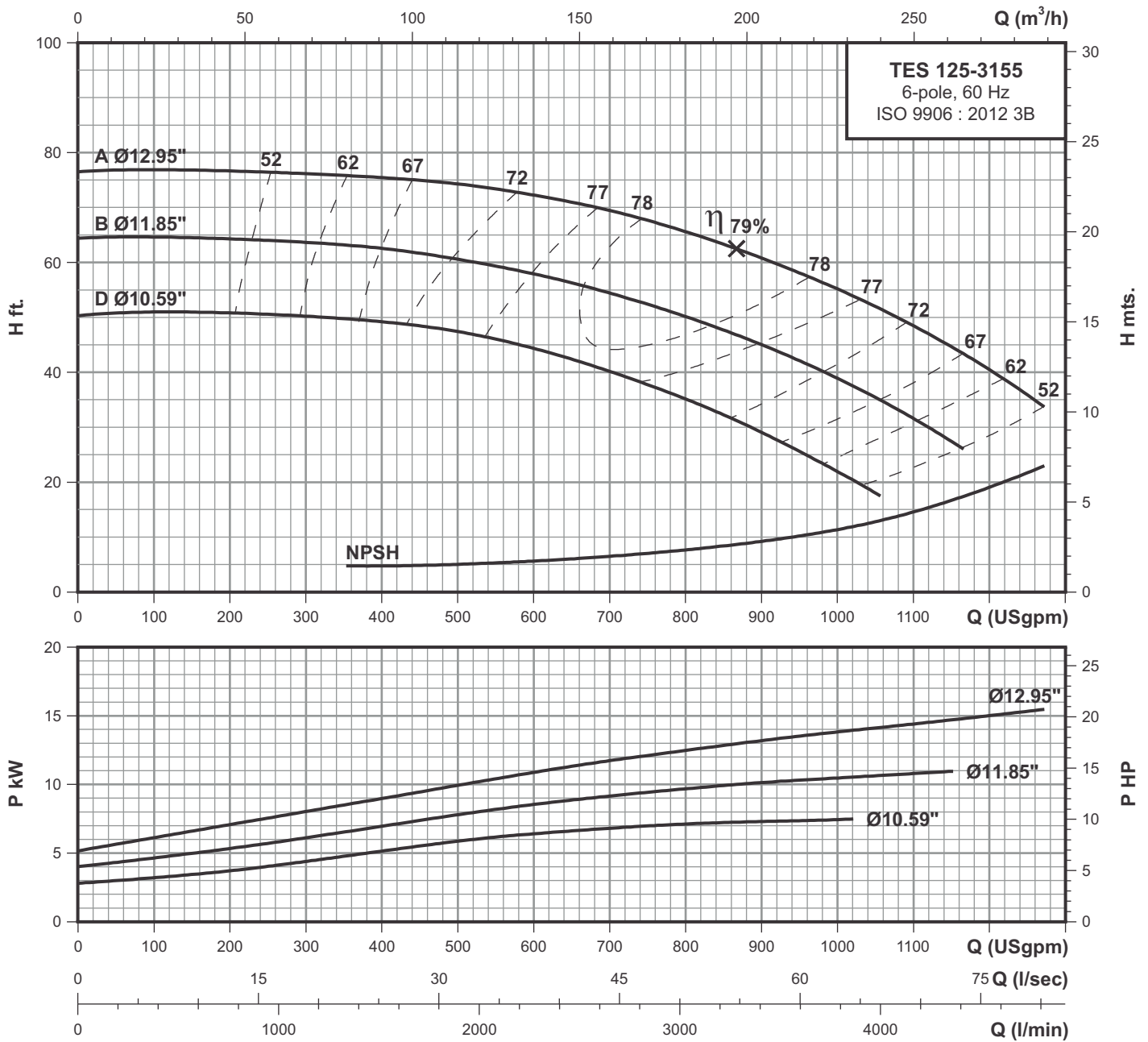
Power	(hp)	10	15	20
	(kw)	7.5	11	15
Frame		256JM	284JM	286JM
ANSI flange		125	125	125
Code for Impeller diameter		D	B	A
DNs	inch(mm)	6.00(150)	6.00(150)	6.00(150)
Dnd	inch(mm)	5.00(125)	5.00(125)	5.00(125)
a	inch(mm)	5.51(140)	5.51(140)	5.51(140)
h2	inch(mm)	13.98(355)	13.98(355)	13.98(355)
L	inch(mm)	11.10(282)	11.10(282)	11.10(282)
h1	inch(mm)	11.02(280)	11.02(280)	11.02(280)
G1	inch(mm)	8.94(227)	8.94(227)	8.94(227)
G2	inch(mm)	10.31(262)	10.31(262)	10.31(262)
m1	inch(mm)	7.87(200)	7.87(200)	7.87(200)
m2	inch(mm)	5.91(150)	5.91(150)	5.91(150)
n1	inch(mm)	19.69(500)	19.69(500)	19.69(500)
n2	inch(mm)	15.75(400)	15.75(400)	15.75(400)
b	inch(mm)	3.94(100)	3.94(100)	3.94(100)
s	inch(mm)	0.87(22)	0.87(22)	0.87(22)
D	inch(mm)	6.25(159)	7.00(178)	7.00(178)
LB	inch(mm)	20.83(529)	23.70(602)	25.24(641)
AD	inch(mm)	9.49(241)	11.57(294)	11.57(294)
AG	inch(mm)	6.73(171)	10.35(263)	10.35(263)
LL	inch(mm)	5.98(152)	7.68(195)	7.68(195)
BD	inch(mm)	10.00(254)	14.00(356)	14.00(356)
BA	inch(mm)	4.25(108)	4.76(121)	4.76(121)
2F	inch(mm)	10.00(254)	9.50(241)	11.00(279)
2E	inch(mm)	10.00(254)	11.00(279)	11.00(279)
H	inch(mm)	0.53(13.5)	0.53(13.5)	0.53(13.5)
Net Weight	lbs(kg)	500(227)	692(314)	750(341)
Gross Weight	lbs(kg)	667(303)	886(402)	944(429)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	22.35(0.633)	27.22(0.771)	27.22(0.771)

6 POLE

# Performance curves

Single-stage end-suction pumps

## TES 125-3155 6-pole



### Performance data at n=1150 rpm

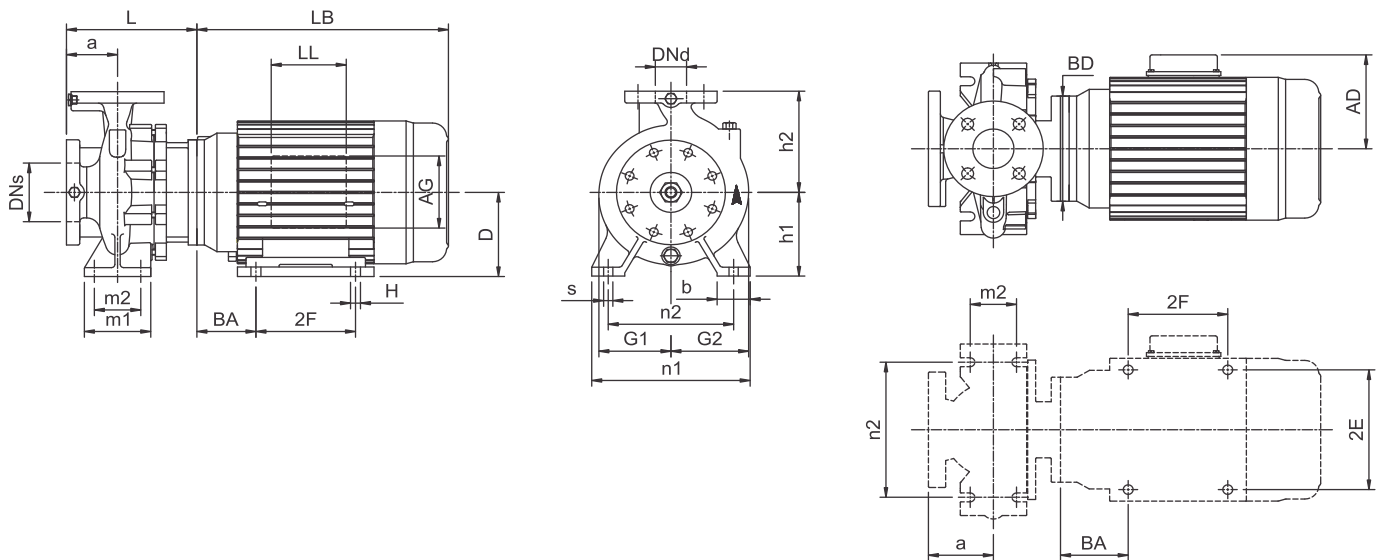
Model	Power		l/min USgpm	757	1136	1514	1893	2271	2650	3028	3407	3785	4164	4543
	HP	kW		200	300	400	500	600	700	800	900	1000	1100	1200
TES 125-3155D	10.0	7.50	H ft.	50.8	50.2	49.3	47.3	44.3	40	35.1	29	21.8	-	-
TES 125-3155B	15.0	11.0		64.3	63.5	62.5	60.6	58	54.3	50.2	45	38.7	31.7	-
TES 125-3155A	20.0	15.0		76.5	76	75.4	74.3	72.4	69.5	65.6	60.8	55.1	48.6	40.4

6 POLE

# Technical data

## Single-stage end-suction pumps

# TES 125-4005 6-pole



Power	(hp)	25	30	40	50
	(kw)	18.5	22	30	37
Frame		324JM	326JM	364JM	365JM
ANSI flange		125	125	125	125
Code for Impeller diameter		D	C	B	A
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)	11.10(282)	11.10(282)	11.10(282)	11.10(282)
h1	inch(mm)	12.40(315)	12.40(315)	12.40(315)	12.40(315)
G1	inch(mm)	10.51(267)	10.51(267)	10.51(267)	10.51(267)
G2	inch(mm)	11.77(299)	11.77(299)	11.77(299)	11.77(299)
m1	inch(mm)	7.87(200)	7.87(200)	7.87(200)	7.87(200)
m2	inch(mm)	5.91(150)	5.91(150)	5.91(150)	5.91(150)
n1	inch(mm)	19.69(500)	19.69(500)	19.69(500)	19.69(500)
n2	inch(mm)	15.75(400)	15.75(400)	15.75(400)	15.75(400)
b	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
s	inch(mm)	0.87(22)	0.87(22)	0.87(22)	0.87(22)
D	inch(mm)	8.00(203)	8.00(203)	9.00(229)	9.00(229)
LB	inch(mm)	27.09(688)	27.09(688)	27.56(700)	28.54(725)
AD	inch(mm)	12.05(306)	12.05(306)	12.91(328)	12.91(328)
AG	inch(mm)	10.35(263)	10.35(263)	10.35(263)	10.35(263)
LL	inch(mm)	7.68(195)	7.68(195)	7.68(195)	7.68(195)
BD	inch(mm)	14.00(356)	14.00(356)	14.00(356)	14.00(356)
BA	inch(mm)	5.25(133)	5.25(133)	5.86(149)	5.86(149)
2F	inch(mm)	10.50(267)	12.00(305)	11.25(286)	12.25(311)
2E	inch(mm)	12.50(318)	12.50(318)	14.00(356)	14.00(356)
H	inch(mm)	0.66(17)	0.66(17)	0.66(17)	0.66(17)
Net Weight	lbs(kg)	925(421)	947(430)	1088(494)	1173(533)
Gross Weight	lbs(kg)	1158(527)	1180(536)	1321(600)	1406(639)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	36.55(1.035)	36.55(1.035)	36.55(1.035)	36.55(1.035)

6 POLE

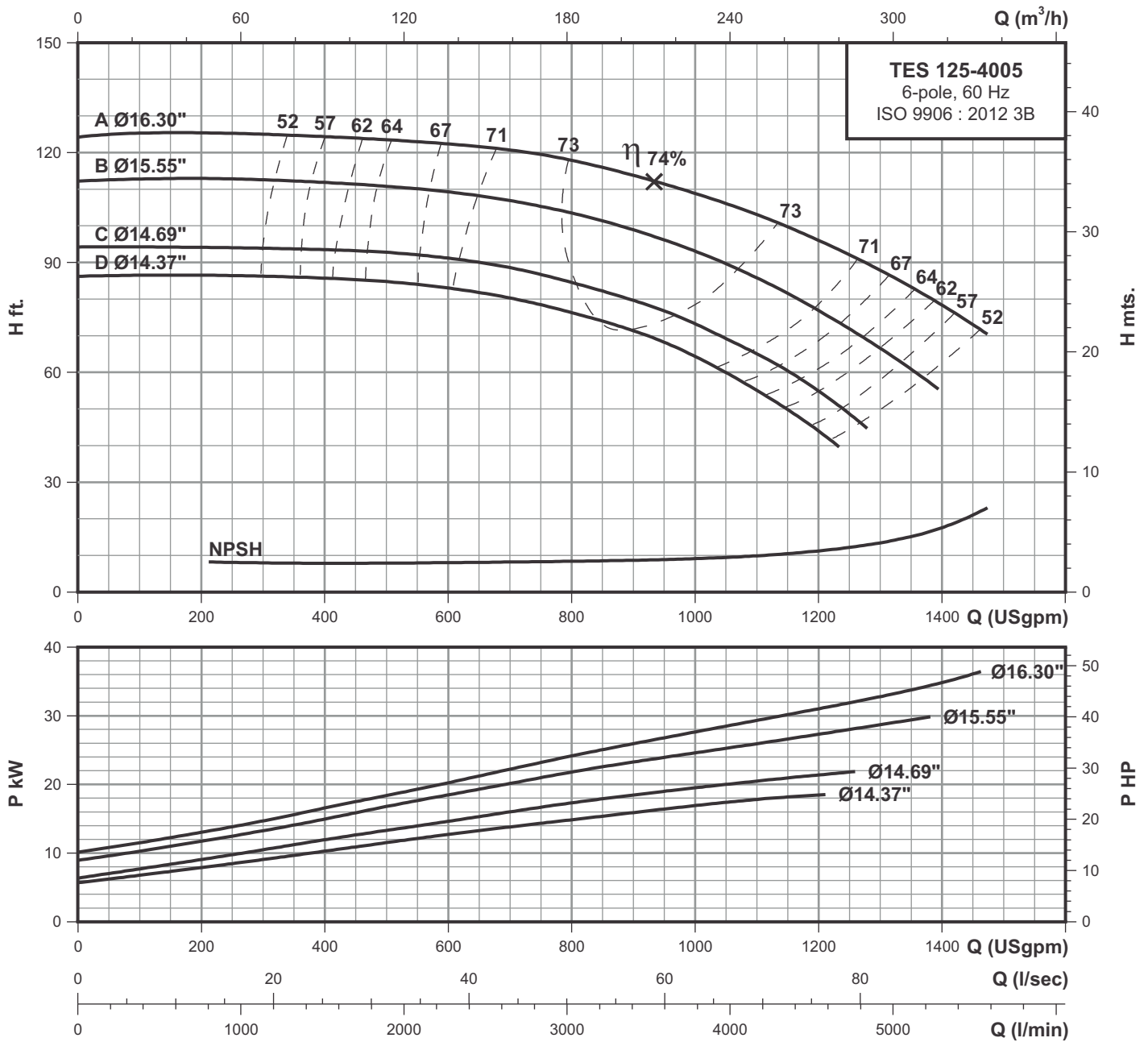


# Performance curves

Single-stage end-suction pumps

## TES 125-4005

### 6-pole



### Performance data at n=1150 rpm

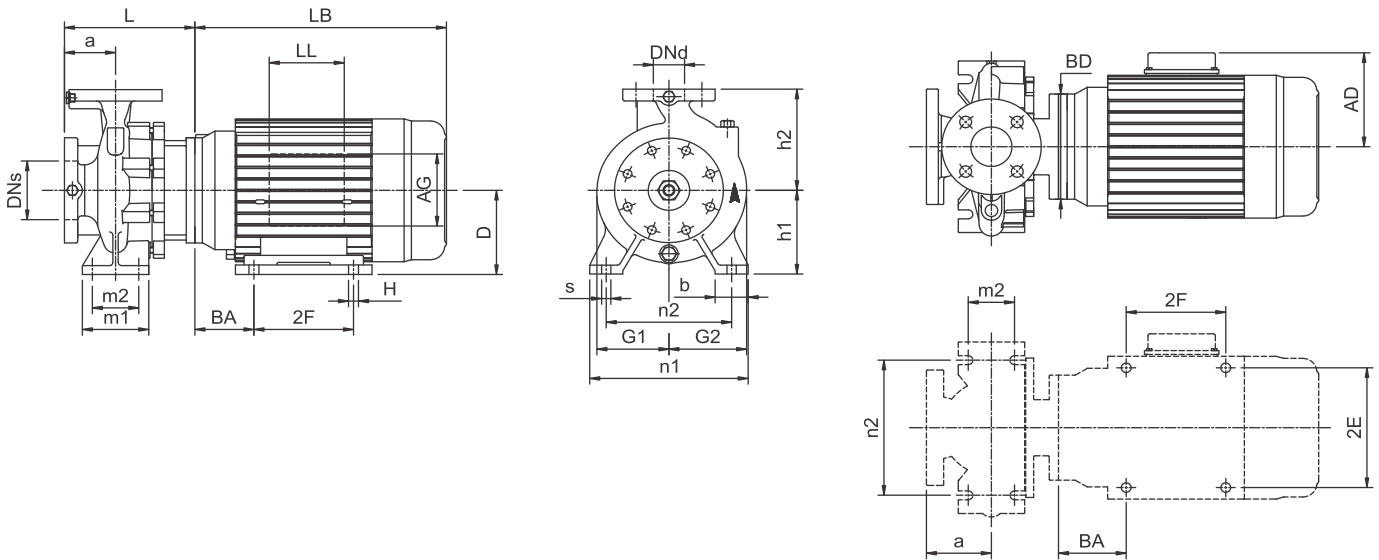
Model	Power		l/min USgpm	757	1514	2271	3028	3785	4543	5300
	HP	kW		200	400	600	800	1000	1200	1400
TES 125-4005D	25.0	18.5	H ft.	86.6	85.8	83.1	76.6	64.3	44.1	-
TES 125-4005C	30.0	22.0		94.1	93.5	91	84.6	73.1	54.7	-
TES 125-4005B	40.0	30.0		113	111.8	109.3	103.5	93	76.9	-
TES 125-4005A	50.0	37.0		125.5	124.2	122.2	118.1	109.1	96.2	78.3

6 POLE

# Technical data

## Single-stage end-suction pumps

# TES 150-2505 6-pole



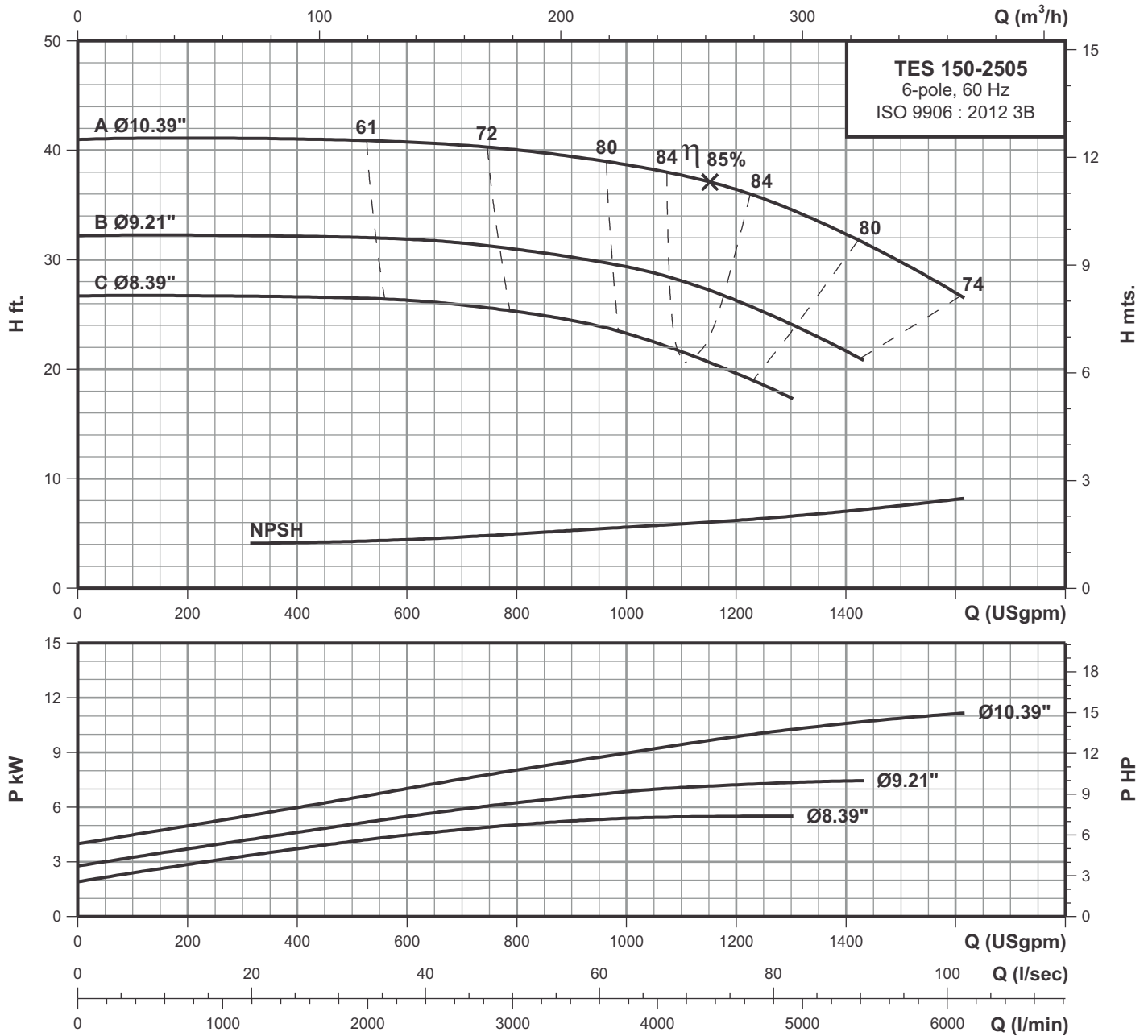
Power	(hp)	7.5	10	15
	(kw)	5.5	7.5	11
Frame		254JM	256JM	284JM
ANSI flange		125	125	125
Code for Impeller diameter		C	B	A
DNs	inch(mm)	8.00(200)	8.00(200)	8.00(200)
Dnd	inch(mm)	6.00(150)	6.00(150)	6.00(150)
a	inch(mm)	6.30(160)	6.30(160)	6.30(160)
h2	inch(mm)	14.76(375)	14.76(375)	14.76(375)
L	inch(mm)	11.30(287)	11.30(287)	11.30(287)
h1	inch(mm)	11.02(280)	11.02(280)	11.02(280)
G1	inch(mm)	8.82(224)	8.82(224)	8.82(224)
G2	inch(mm)	11.06(281)	11.06(281)	11.06(281)
m1	inch(mm)	7.87(200)	7.87(200)	7.87(200)
m2	inch(mm)	5.91(150)	5.91(150)	5.91(150)
n1	inch(mm)	19.69(500)	19.69(500)	19.69(500)
n2	inch(mm)	15.75(400)	15.75(400)	15.75(400)
b	inch(mm)	3.94(100)	3.94(100)	3.94(100)
s	inch(mm)	0.87(22)	0.87(22)	0.87(22)
D	inch(mm)	6.25(159)	6.25(159)	7.00(178)
LB	inch(mm)	19.17(487)	20.83(529)	23.70(602)
AD	inch(mm)	9.49(241)	9.49(241)	11.57(294)
AG	inch(mm)	6.73(171)	6.73(171)	10.35(263)
LL	inch(mm)	5.98(152)	5.98(152)	7.68(195)
BD	inch(mm)	10.00(254)	10.00(254)	14.00(356)
BA	inch(mm)	4.25(108)	4.25(108)	4.76(121)
2F	inch(mm)	8.25(210)	10.00(254)	9.50(241)
2E	inch(mm)	10.00(254)	10.00(254)	11.00(279)
H	inch(mm)	0.53(13.5)	0.53(13.5)	0.53(13.5)
Net Weight	lbs(kg)	471(214)	500(227)	692(314)
Gross Weight	lbs(kg)	638(290)	667(303)	870(395)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	21.33(0.604)	21.33(0.604)	24.05(0.681)

6 POLE

# Performance curves

# TES 150-2505 6-pole

## Single-stage end-suction pumps



### Performance data at n=1150 rpm

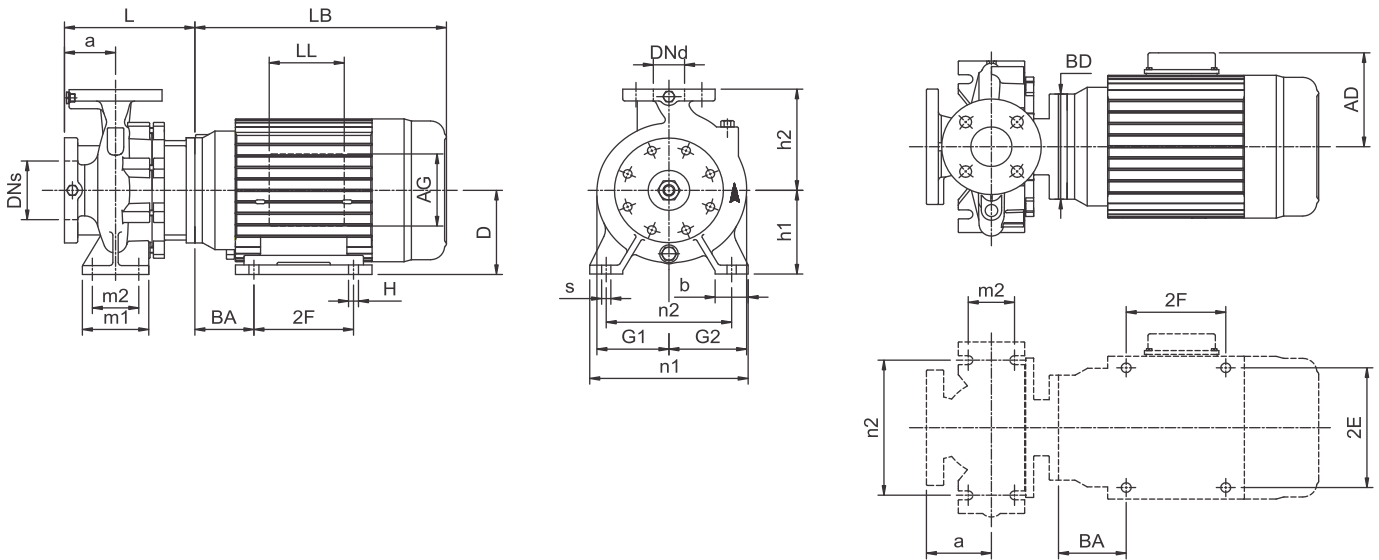
Model	Power		l/min USgpm	757	1514	2271	3028	3785	4543	5300	6057
	HP	kW		200	400	600	800	1000	1200	1400	1600
TES 150-2505C	7.50	5.50	H ft.	26.8	26.7	26.4	25.3	23.2	19.8	-	-
TES 150-2505B	10.0	7.50		32.2	32.1	32	31	29.3	26.2	21.8	-
TES 150-2505A	15.0	11.0		41.1	41	40.8	40	38.7	36.4	32.2	27

**6 POLE**

# Technical data

## Single-stage end-suction pumps

# TES 150-3155 6-pole



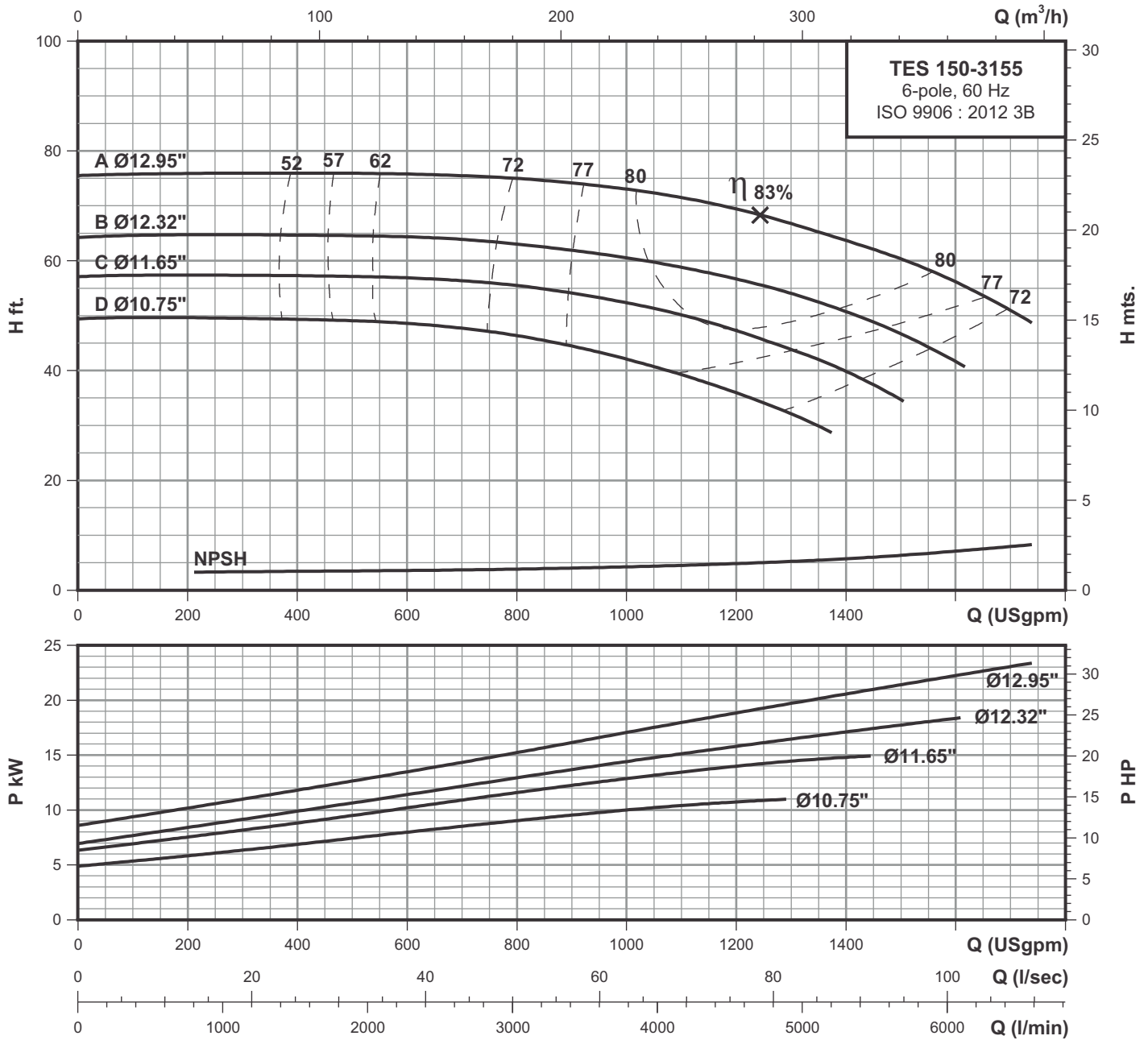
Power	(hp)	15	20	25	30
	(kw)	11	15	18.5	22
Frame		284JM	286JM	324JM	326JM
ANSI flange		125	125	125	125
Code for Impeller diameter		D	C	B	A
DNs	inch(mm)	8.00(200)	8.00(200)	8.00(200)	8.00(200)
Dnd	inch(mm)	6.00(150)	6.00(150)	6.00(150)	6.00(150)
a	inch(mm)	6.30(160)	6.30(160)	6.30(160)	6.30(160)
h2	inch(mm)	15.75(400)	15.75(400)	15.75(400)	15.75(400)
L	inch(mm)	11.89(302)	11.89(302)	11.89(302)	11.89(302)
h1	inch(mm)	11.02(280)	11.02(280)	11.02(280)	11.02(280)
G1	inch(mm)	9.53(242)	9.53(242)	9.53(242)	9.53(242)
G2	inch(mm)	11.30(287)	11.30(287)	11.30(287)	11.30(287)
m1	inch(mm)	7.87(200)	7.87(200)	7.87(200)	7.87(200)
m2	inch(mm)	5.91(150)	5.91(150)	5.91(150)	5.91(150)
n1	inch(mm)	21.65(550)	21.65(550)	21.65(550)	21.65(550)
n2	inch(mm)	17.72(450)	17.72(450)	17.72(450)	17.72(450)
b	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
s	inch(mm)	0.87(22)	0.87(22)	0.87(22)	0.87(22)
D	inch(mm)	7.00(178)	7.00(178)	8.00(203)	8.00(203)
LB	inch(mm)	23.70(602)	25.24(641)	27.09(688)	27.09(688)
AD	inch(mm)	11.57(294)	11.57(294)	12.05(306)	12.05(306)
AG	inch(mm)	10.35(263)	10.35(263)	10.35(263)	10.35(263)
LL	inch(mm)	7.68(195)	7.68(195)	7.68(195)	7.68(195)
BD	inch(mm)	14.00(356)	14.00(356)	14.00(356)	14.00(356)
BA	inch(mm)	4.76(121)	4.76(121)	5.25(133)	5.25(133)
2F	inch(mm)	9.50(241)	11.00(279)	10.50(267)	12.00(305)
2E	inch(mm)	11.00(279)	11.00(279)	12.50(318)	12.50(318)
H	inch(mm)	0.53(13.5)	0.53(13.5)	0.66(17)	0.66(17)
Net Weight	lbs(kg)	751(342)	810(368)	926(421)	952(433)
Gross Weight	lbs(kg)	963(438)	1004(456)	1137(517)	1163(529)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	31.18(0.883)	27.22(0.771)	31.64(0.896)	31.64(0.896)

6 POLE

# Performance curves

Single-stage end-suction pumps

## TES 150-3155 6-pole



### Performance data at n=1150 rpm

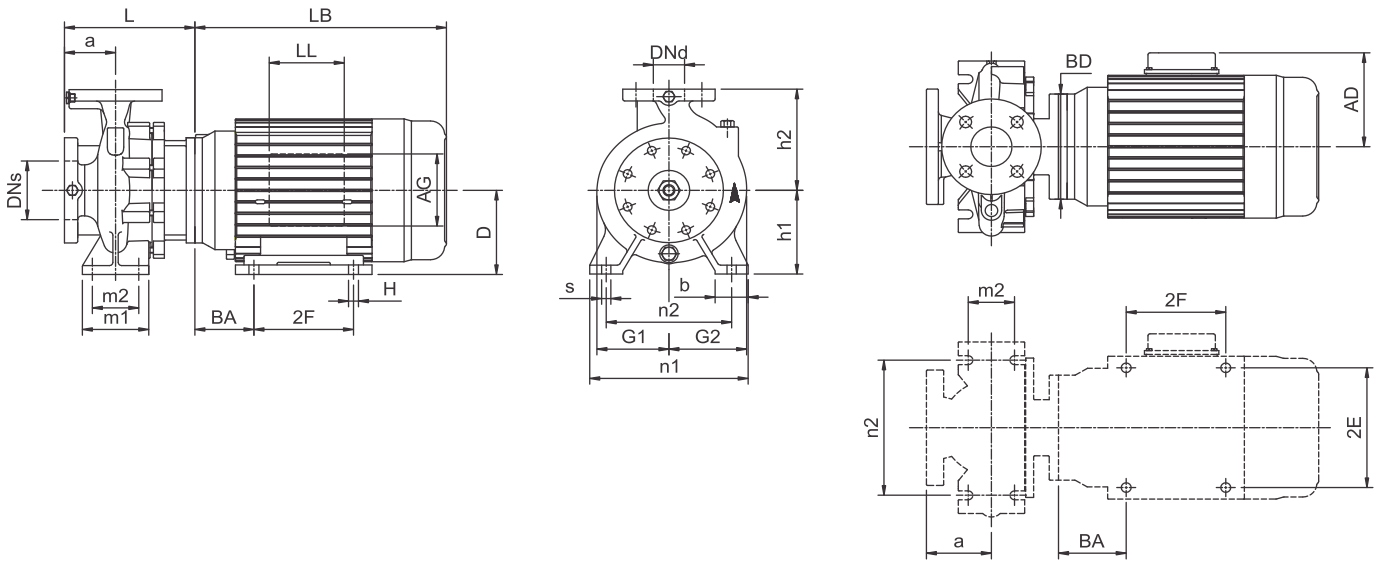
Model	Power		l/min USgpm	757	1514	2271	3028	3785	4543	5300	6057
	HP	kW		200	400	600	800	1000	1200	1400	1600
TES 150-3155D	15.0	11.0	H ft.	49.6	49.2	48.5	46.4	42.1	36	-	-
TES 150-3155C	20.0	15.0		57.3	57.3	56.8	55.5	52.4	47.3	40	-
TES 150-3155B	25.0	18.5		64.7	64.7	64.2	63	60.5	56.7	50.7	41.7
TES 150-3155A	30.0	22.0		75.8	75.8	75.6	75	73.2	69.3	63.7	56.1

6 POLE

# Technical data

## Single-stage end-suction pumps

# TES 150-4005 6-pole



Power	(hp)	30	40	50	60
	(kw)	22	30	37	45
Frame		326JM	364JM	365JM	404TC
ANSI flange		125	125	125	125
Code for Impeller diameter		D	C	B	A
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)	11.89(302)	11.89(302)	11.89(302)	18.94(481)
h1	inch(mm)	12.40(315)	12.40(315)	12.40(315)	12.40(315)
G1	inch(mm)	10.98(279)	10.98(279)	10.98(279)	10.98(279)
G2	inch(mm)	12.60(320)	12.60(320)	12.60(320)	12.60(320)
m1	inch(mm)	7.87(200)	7.87(200)	7.87(200)	7.87(200)
m2	inch(mm)	5.91(150)	5.91(150)	5.91(150)	5.91(150)
n1	inch(mm)	21.65(550)	21.65(550)	21.65(550)	21.65(550)
n2	inch(mm)	17.72(450)	17.72(450)	17.72(450)	17.72(450)
b	inch(mm)	3.94(100)	3.94(100)	3.94(100)	3.94(100)
s	inch(mm)	0.87(22)	0.87(22)	0.87(22)	0.87(22)
D	inch(mm)	8.00(203)	9.00(229)	9.00(229)	10.00(254)
LB	inch(mm)	27.09(688)	27.56(700)	28.54(725)	31.22(793)
AD	inch(mm)	12.05(306)	12.91(328)	12.91(328)	16.30(414)
AG	inch(mm)	10.35(263)	10.35(263)	10.35(263)	12.87(327)
LL	inch(mm)	7.68(195)	7.68(195)	7.68(195)	9.45(240)
BD	inch(mm)	14.00(356)	14.00(356)	14.00(356)	15.51(394)
BA	inch(mm)	5.25(133)	5.86(149)	5.86(149)	6.62(168)
2F	inch(mm)	12.00(305)	11.25(286)	12.25(311)	12.25(311)
2E	inch(mm)	12.50(318)	14.00(356)	14.00(356)	16.00(406)
H	inch(mm)	0.66(17)	0.66(17)	0.66(17)	0.81(21)
Net Weight	lbs(kg)	997(453)	1138(517)	1224(556)	1555(707)
Gross Weight	lbs(kg)	1230(559)	1360(618)	1457(662)	1806(820)
Volume	ft <sup>3</sup> (m <sup>3</sup> )	36.55(1.035)	33.71(0.955)	36.55(1.035)	40.29(1.141)

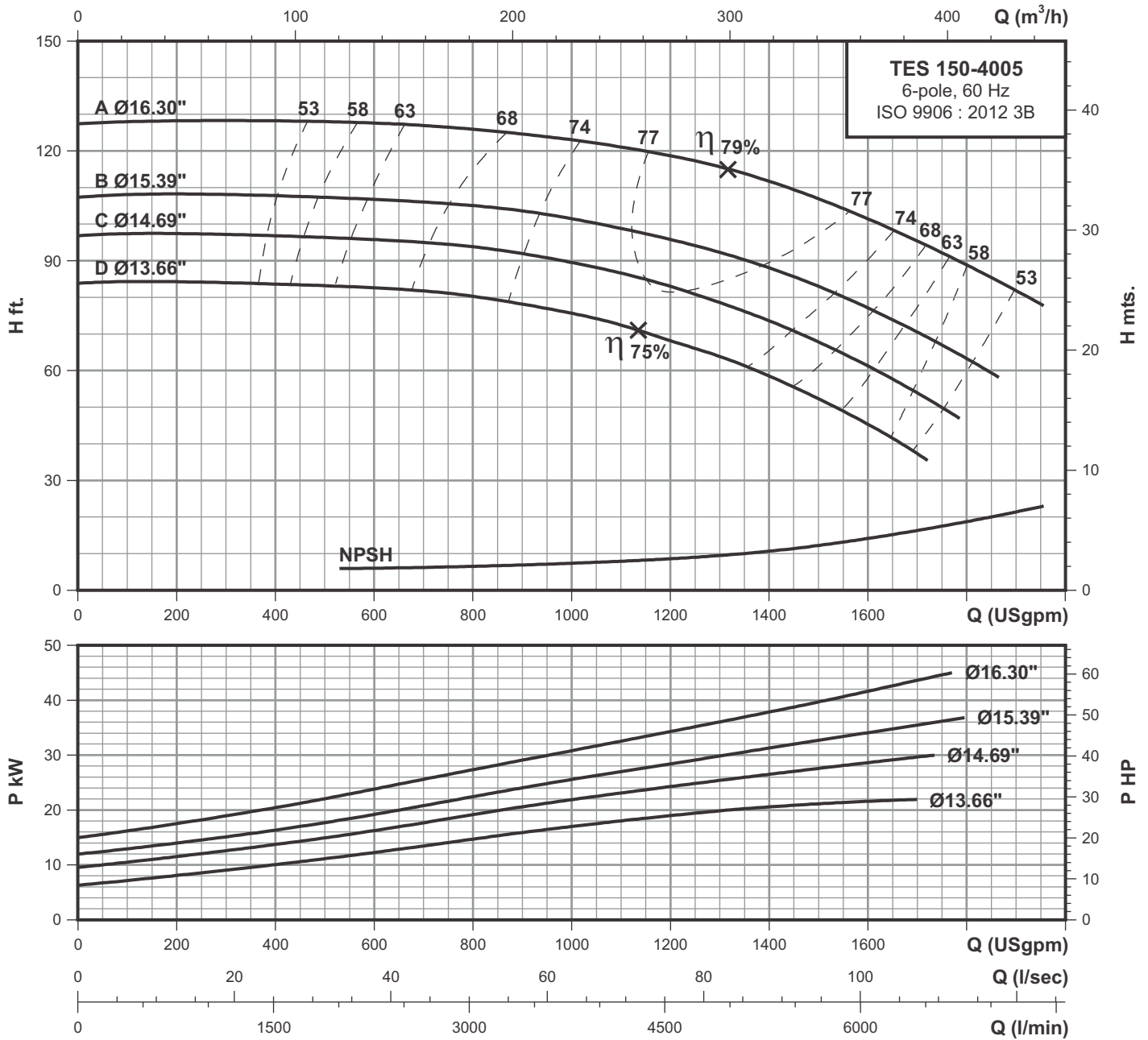
6 POLE

# Performance curves

Single-stage end-suction pumps

## TES 150-4005

### 6-pole



### Performance data at n=1150 rpm

Model	Power		l/min USgpm	757	1514	2271	3028	3785	4543	5300	6057	6814
	HP	kW		200	400	600	800	1000	1200	1400	1600	1800
TES 150-4005D	30.0	22.0	H ft.	84.1	83.5	82.6	80.2	75.7	68.2	58.6	45.4	-
TES 150-4005C	40.0	30.0		97.4	96.8	95.9	93.7	89.6	83.1	73.5	61.4	-
TES 150-4005B	50.0	37.0		108	107.7	106.7	105.1	101.5	96	88	77.1	63.2
TES 150-4005A	60.0	45.0		128	128	127.7	126	123	118.8	111.7	101.5	88.8

6 POLE

# Accessories

## Single-stage end-suction pumps

# TES

### 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.

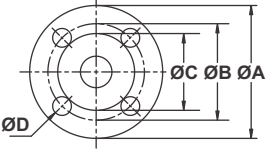
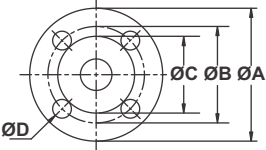
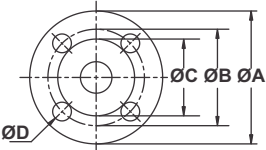
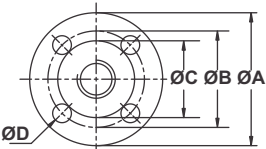
#### CF-8 & Bronze pumps (version-E,F)

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.

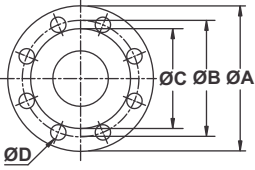
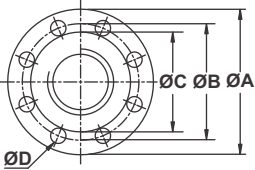
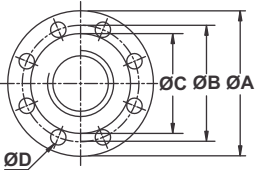
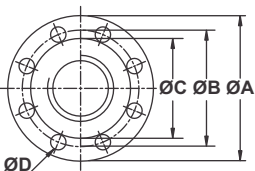
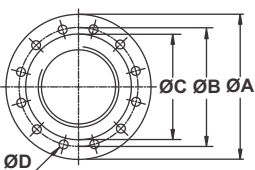
Counter flange	Flange size	Description		A	B	C	ØDxQty. of Holes	Pipework connection	Product number
	1¼	Threaded	ANSI 125	Ø4.53	Ø3.50	-	Ø0.62X4	1¼ NPT	0323T*
			ANSI 250	Ø5.31	Ø3.86	Ø3.07	Ø0.75X4		0324T*
			PN 16	Ø5.51	Ø3.94	Ø3.07	Ø0.70X4	1¼ BSP**	0321T*
			PN 25	Ø5.51	Ø3.94	Ø3.07	Ø0.70X4		0322T*
		For welding	ANSI 125	Ø4.53	Ø3.50	-	Ø0.62X4	1¼	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*
	1½	Threaded	ANSI 125	Ø4.92	Ø3.86	-	Ø0.62X4	1½ NPT	0403T*
			ANSI 250	Ø6.10	Ø4.49	Ø3.58	Ø0.87X4		0404T*
			PN 16	Ø5.91	Ø4.33	Ø3.46	Ø0.70X4	1½ BSP**	0401T*
			PN 25	Ø5.91	Ø4.33	Ø3.46	Ø0.70X4		0402T*
		For welding	ANSI 125	Ø4.92	Ø3.86	-	Ø0.62X4	1½	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*
	2½	Threaded	ANSI 125	Ø7.09	Ø5.51	-	Ø0.75X4	2½ NPT	0653T*
			ANSI 250	Ø7.48	Ø5.87	Ø4.92	Ø0.87X8		0654T*
			PN 16	Ø7.28	Ø5.71	Ø4.80	Ø0.70X4	2½ BSP**	0651T*
			PN 25	Ø7.28	Ø5.71	Ø4.80	Ø0.70X8		0652T*
		For welding	ANSI 125	Ø7.09	Ø5.51	-	Ø0.75X4	2½	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 end-suction pumps

# TES

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 end-suction pumps

**TES**

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**

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ISO 9001



ISO 14001