



SUBMERSIBLE PUMPS **60 Hz**





# INDEX

TS SERIES - STAINLESS STEEL SUBMERSIBLE PUMPS	PAGE NO.
<b>General Data</b>	
Construction, Applications, Features.....	2
Pumped Liquids.....	3
Pump Operating Limitations.....	3
Model Designation.....	3
Quick Selection TS - 100 Series.....	4
Quick Selection TS - 150 Series.....	5
Quick Selection TS - 200 & 250 Series.....	6
<b>4" TS SERIES</b>	
Constructional Data of Radial & Semi - Axial Flow Pump.....	7-9
<b>Performance Curves, Nett Weight &amp; Dimensions</b>	
TS 100-5.....	10-11
TS 100-7.....	12-13
TS 100-10.....	14-15
TS 100-16.....	16-19
TS 100-25.....	20-21
TS 100-40.....	22-23
TS 100-75.....	24-25
<b>6" TS SERIES</b>	
Constructional Data of Radial & Semi - Axial Flow Pump.....	26-27
<b>Performance Curves, Nett Weight &amp; Dimensions</b>	
TS 150-85.....	28-31
TS 150-90.....	32-35
TS 150-150.....	36-39
TS 150-240.....	40-43
TS 150-300.....	44-47
<b>8" &amp; 10" TS SERIES</b>	
Constructional Data of Semi Axial Flow Pump.....	48-49
<b>Performance Curves, Nett Weight &amp; Dimensions</b>	
TS 200-390.....	50-53
TS 200-475.....	54-57
TS 250-625.....	58-61
TS 250-800.....	62-65
TS 250-A75.....	66-67
<b>TP SERIES - THERMOPLASTIC SUBMERSIBLE PUMPS</b>	
Construction, Applications, Features.....	69
Quick Selection Chart.....	70
<b>4" TP SERIES</b>	
<b>Version TP</b> - Constructional data of Radial & Semi - Axial Flow Pump.....	71-73
<b>Performance Curves, Nett Weight &amp; Dimensions</b>	
TP 100-5.....	74-75
TP 100-7.....	76-77
TP 100-10.....	78-79
TP 100-15.....	80-81
TP 100-20.....	82-83
TP 100-25.....	84-85
TP 100-40.....	86-87
TP 100-50.....	88-89
TP 100-70.....	90-91
TP 100-90.....	92-93
<b>CHARTS</b>	
Friction loss Chart.....	94-96
Cable Selection Chart.....	97-98
Conversion Chart.....	99

## GENERAL DATA

### STAINLESS STEEL SUBMERSIBLE PUMPS > TS SERIES

**Construction** Tormac stainless steel submersible pumps are ingeniously designed and developed employing latest engineering softwares, high-tech machinery, tools and cutting edge of pumping technology to deliver the best possible hydraulic efficiency. The complete stainless steel construction not only prevents the pumps from corrosion but also exceptionally increases the life-span. The integrated and most modern quality assurance systems used at every stage of the production and flawless workmanship ensure sustained and consistent operation.

All these submersible pumps are multistage single suction centrifugal type and provided with integral check-valve and NEMA standard coupling. These pumps are available with fabricated impellers and diffusers made of AISI 304 and the shaft is made of AISI 304/431. The integral check valve prevents back flow and reduces the risk of water hammer which paves the way for trouble free performance. The suction screen is designed with utmost care so as not to reduce the inflow of water and at the same time to prevent damage to the pump and clogging due to the entry of sand and other foreign particles.

#### Applications

Public water supply  
Fountains  
Irrigation  
Pressure boosting systems  
Industrial & Private water supply systems  
Air-conditioning equipments  
Sprinkler systems and Mining  
Farming  
Water plants  
Laboratories

#### Features

Tried and trusted  
Highly efficient  
Wide head and flow range with numerous models  
Good sand resistance capacity  
Corrosion free parts for hygiene  
Low wear and tear  
perfectly and aesthetically designed and easily serviceable.

## GENERAL DATA

### Pumped Liquids

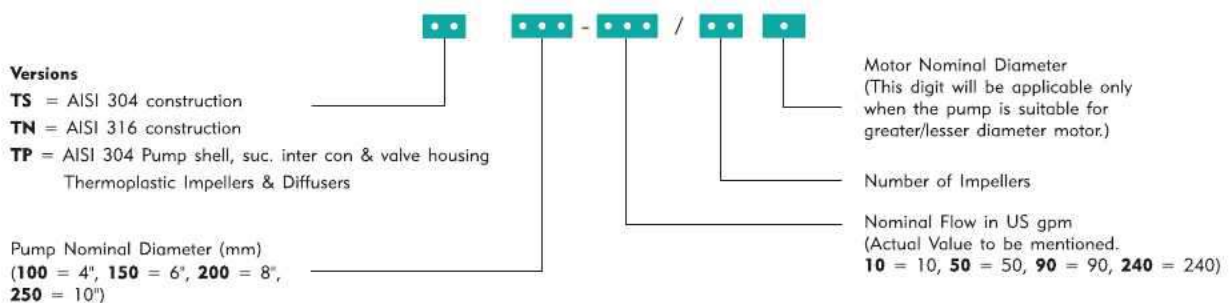
Non-aggressive, non explosive, Pure, cold, Fresh water without abrasives particles having the following characteristics.

a) Temperature	NBR - 100.4°F (upto 38°C) / VITON - 194°F (upto 90°C)
b) Chlorine ion density	500 ppm (max.)
c) Allowable solids	3000 ppm (max.)
d) Specific gravity	1.004 (max.)
e) Hardness (Drinking Water)	300 (max.)
f) Viscosity	1.75x10 <sup>6</sup> m <sup>2</sup> /sec (max.)
g) Turbidity	50 ppm silica scale (max.)
h) pH	6.5 to 8.5
l Permissible amount of sand	0.42 lb / 1000 gal (Max.)

Pump Operating Limitations		TS Series			TP Series
Nominal Diameter		4"	6"	8" & 10"	4"
Power Range		0.33 HP - 20 HP	3 HP - 60 HP	7.5 HP - 250 HP	0.5 - 10 HP
Speed		3450 rpm	3450 rpm	3450 rpm	3450 rpm
Flow Range	USGPM	1.5 - 90	20 - 400	100 - 1083	2 - 125
	m <sup>3</sup> /h	0.3 - 20	4.54 - 90	22.71 - 246	0.45 - 28
Total Head Range	ft	20 - 2220	7 - 1960	25 - 1425	18 - 998
	m	6 - 677	2 - 588	7.5 - 428	5.4 - 300
Outlet size		1", 1¼", 1½" & 2"	2", 3", & 4"	4" & 5"	1", 1¼", 1½" & 2"
Max. Operating Pressure		961 PSI(67 bar)	909 PSI (64 bar)	506 PSI (42.8 bar)	426 (30 bar)
Sand handling capacity		50g/m <sup>3</sup>	50g/m <sup>3</sup>	50g/m <sup>3</sup>	100g/m <sup>3</sup>
Shaft Coupling		Splines	Splines	* Keyway / Splines	Splines

\* Upto 125Hp - Splines Coupling 150HP & Above - Keyway Coupling (Standard), Splines Coupling (Optional).

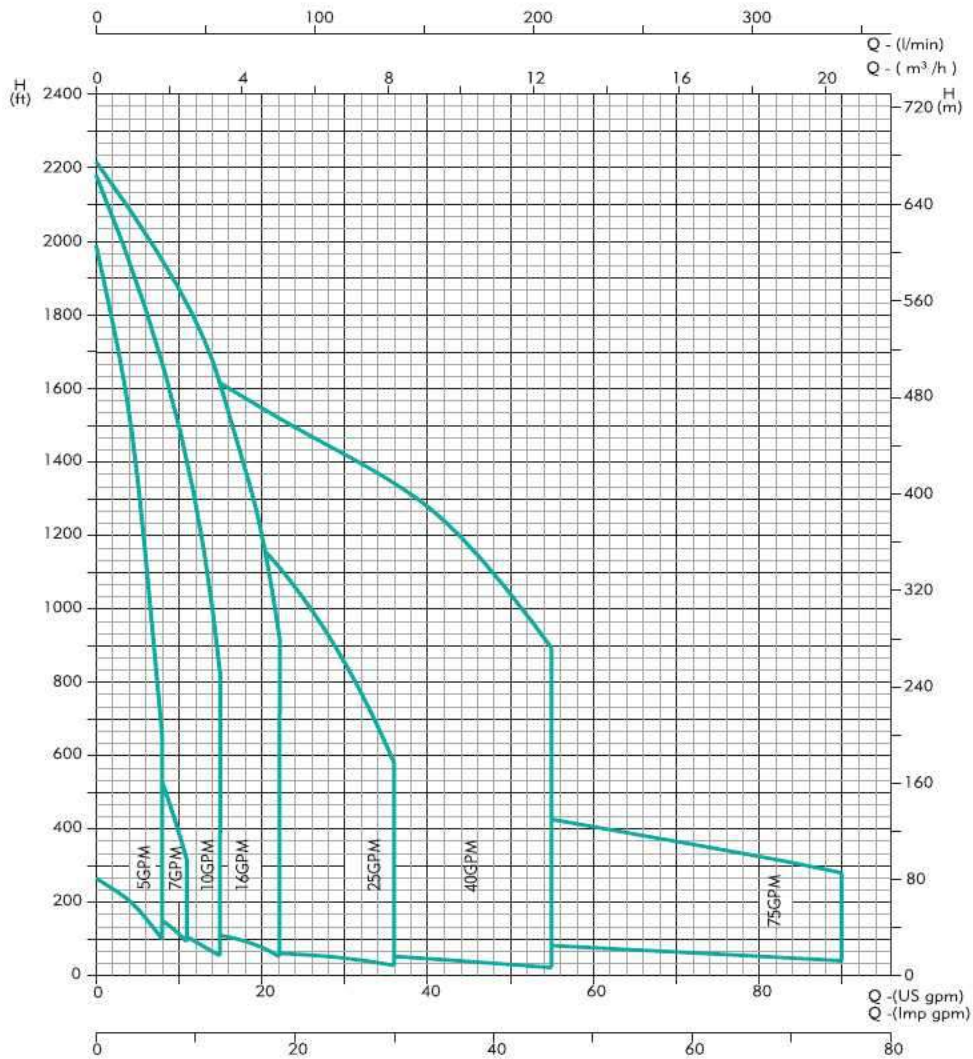
### Model Designation ➤ BOREHOLE SUBMERSIBLE PUMPS



Motor	Min. Cooling Flow along the motor	Vertical Instalation	Harizontal Instalation Min. 30° Angle
4"	0.25 ft / s	91.4°F (33°C)	91.4°F (33°C)
6" & 8"	0.5 ft / s	91.4°F (33°C)	91.4°F (33°C)
10"	0.5 ft / s	91.4°F (33°C)	91.4°F (33°C)

## GENERAL DATA

### Quick Selection > TS 100 Series > Version TS & TN

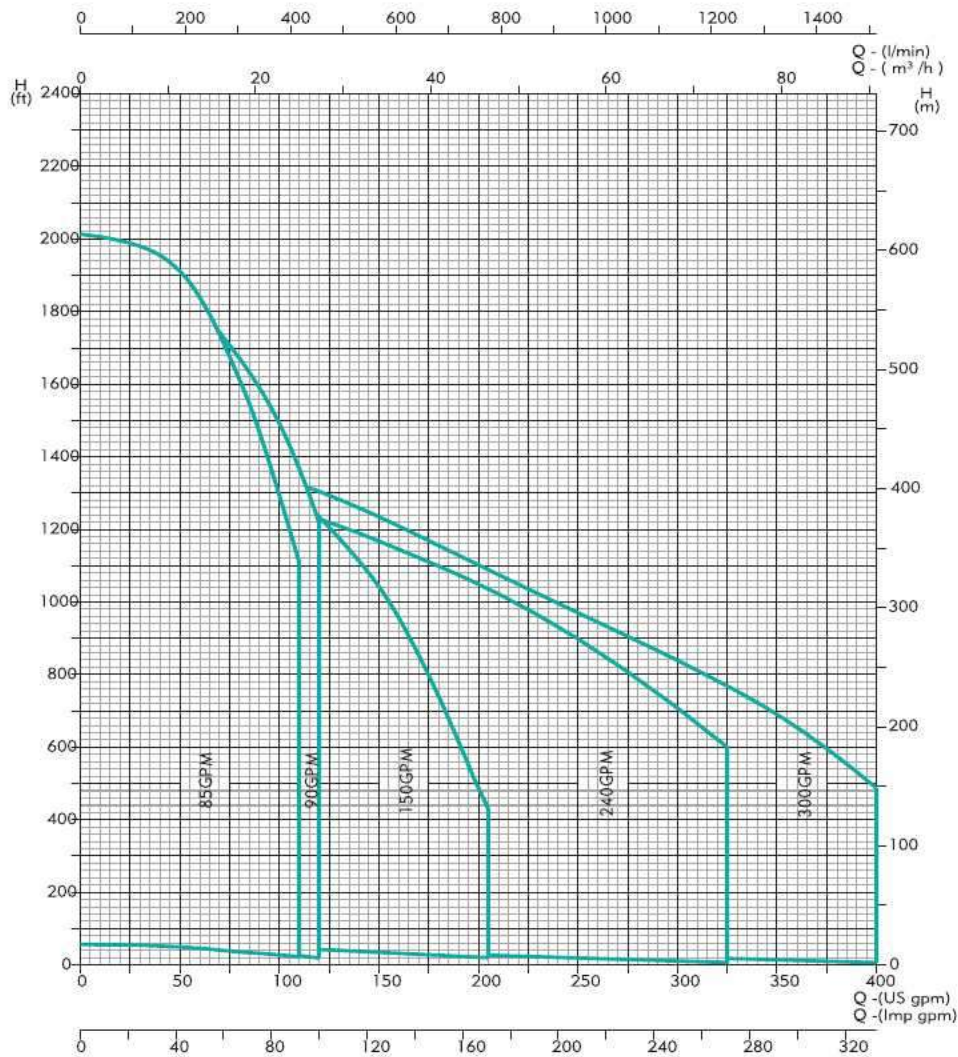


#### Performance Curve Conditions

a.	The Performance curves show performance of the pump at rated speed and voltage and @ 10 feet minimum submergence. The speed of motor is approximately : 3450 rpm	e.	Q/H : The curves are inclusive of check valve and suction inter-connector losses at the actual speed.
b.	The measurements were made with airless water at 20°C. For pumping liquids with a density higher than that of water, motors with correspondingly higher outputs must be used.	f.	Efficiency curve: "EFF%" shows pump stage efficiency.
c.	Pipe friction losses have not been included in the performance curves and performance data.	g.	Curve tolerance according to ISO : 9906, Annex-A.
d.	The bold curves indicate the recommended performance range.	h.	The performance are at rated voltage and are only Indicative. Actual discharge depends on availability of water in well, based on strength of water source, height of water column, submergence of pump, etc.,
		i.	The given performance are for a specific materials of construction of pumps.

## GENERAL DATA

### Quick Selection > TS 150 Series > Version TS & TN

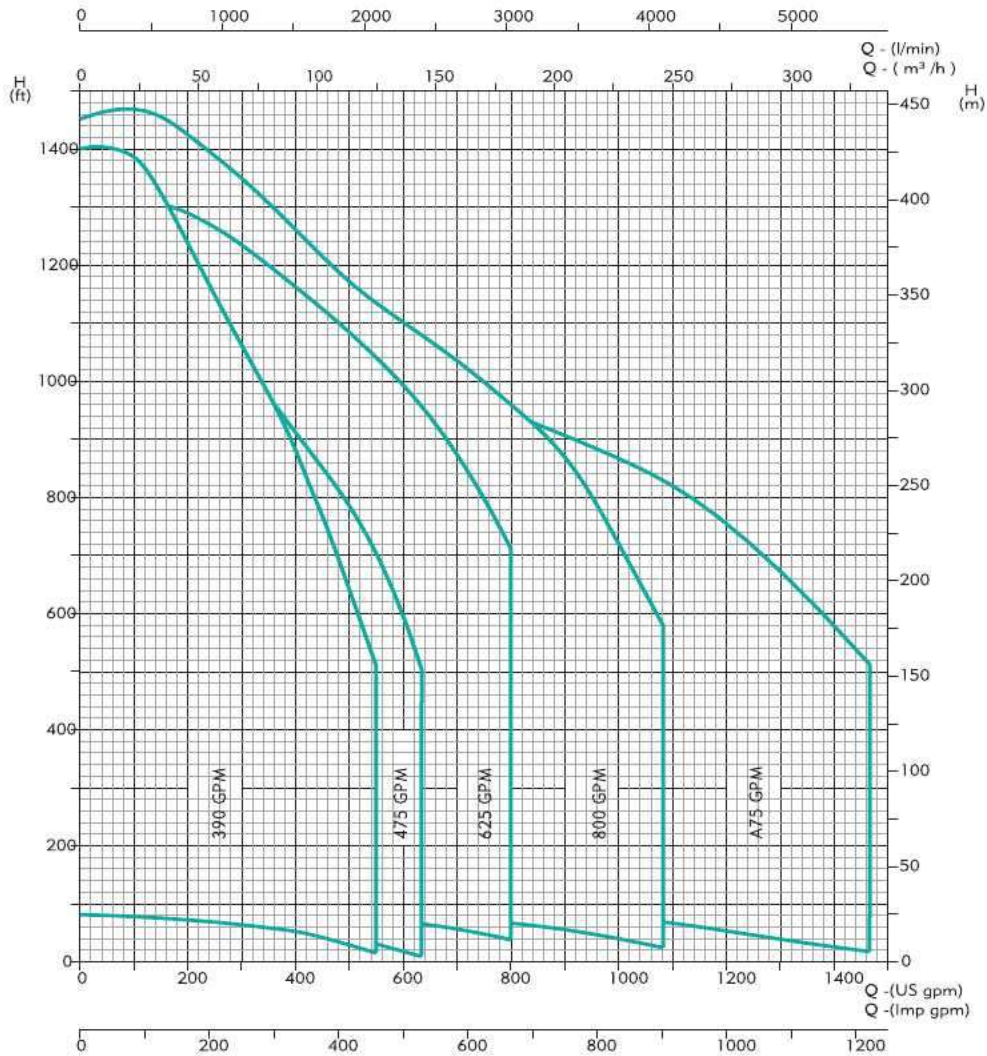


#### Performance Curve Conditions

a.	The Performance curves show performance of the pump at rated speed and voltage and @ 10 feet minimum submergence. The speed of motor is approximately : 3450 rpm	e.	Q/H : The curves are inclusive of check valve and suction inter-connector losses at the actual speed.
b.	The measurements were made with airless water at 20°C. For pumping liquids with a density higher than that of water, motors with correspondingly higher outputs must be used.	f.	Efficiency curve: "EFF%" shows pump stage efficiency.
c.	Pipe friction losses have not been included in the performance curves and performance data.	g.	Curve tolerance according to ISO : 9906, Annex-A.
d.	The bold curves indicate the recommended performance range.	h.	The performance are at rated voltage and are only Indicative. Actual discharge depends on availability of water in well, based on strength of water source, height of water column, submergence of pump, etc.,
		i.	The given performance are for a specific materials of construction of pumps.

## GENERAL DATA

### Quick Selection > TS 200 & 250 Series > Version TS & TN



#### Performance Curve Conditions

a.	The Performance curves show performance of the pump at rated speed and voltage and @ 10 feet minimum submergence. The speed of motor is approximately : 3450 rpm	e.	Q/H : The curves are inclusive of check valve and suction inter-connector losses at the actual speed.
b.	The measurements were made with airless water at 20°C. For pumping liquids with a density higher than that of water, motors with correspondingly higher outputs must be used.	f.	Efficiency curve: "EFF%" shows pump stage efficiency.
c.	Pipe friction losses have not been included in the performance curves and performance data.	g.	Curve tolerance according to ISO : 9906, Annex-A.
d.	The bold curves indicate the recommended performance range.	h.	The performance are at rated voltage and are only Indicative. Actual discharge depends on availability of water in well, based on strength of water source, height of water column, submergence of pump, etc.,
		i.	The given performance are for a specific materials of construction of pumps.

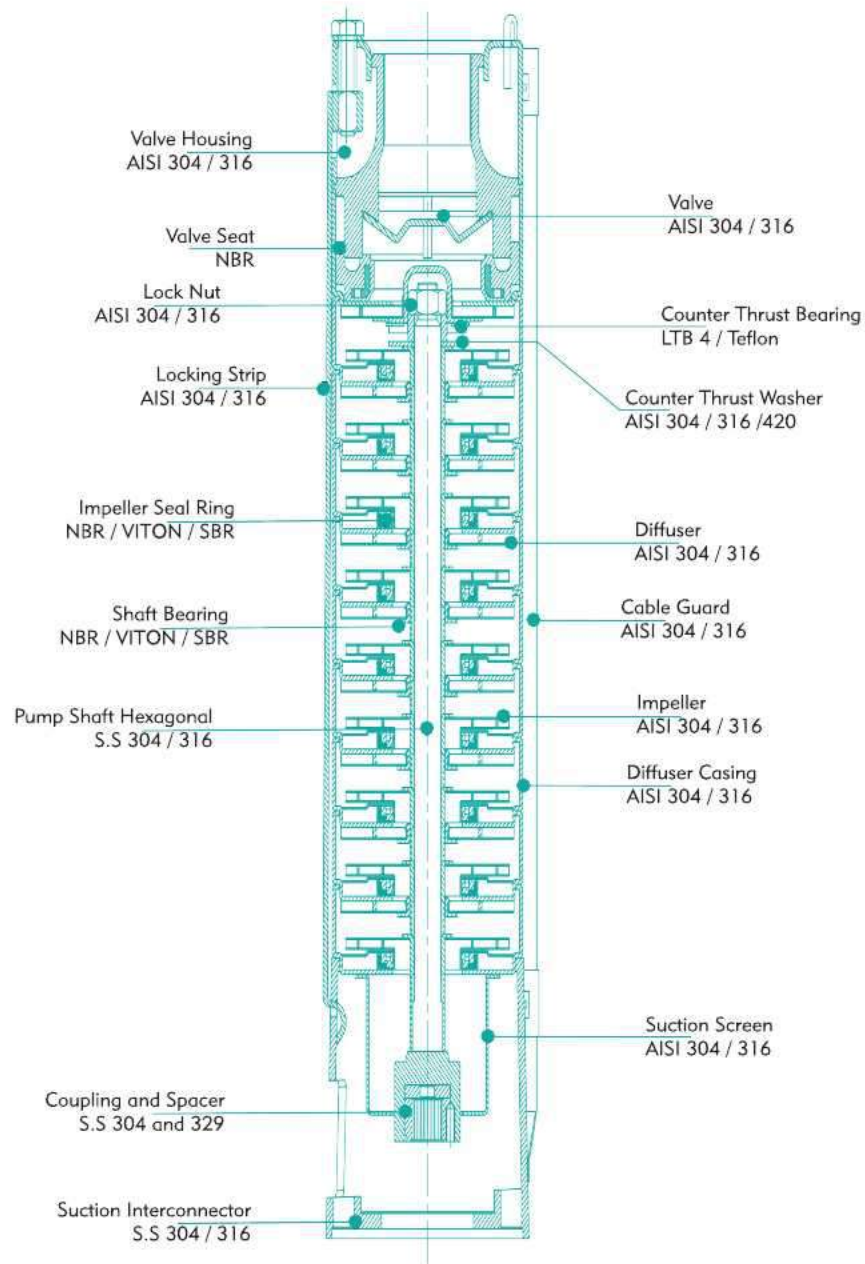


## CONSTRUCTIONAL DATA

### 5 - 7gpm and 10 gpm Lower Stage Assembly

5 - 7gpm Upto 29 Stage and 10gpm Upto 25 Stage

4" > TS Series > Version TS / TN > Constructional Data of Radial Flow Pump

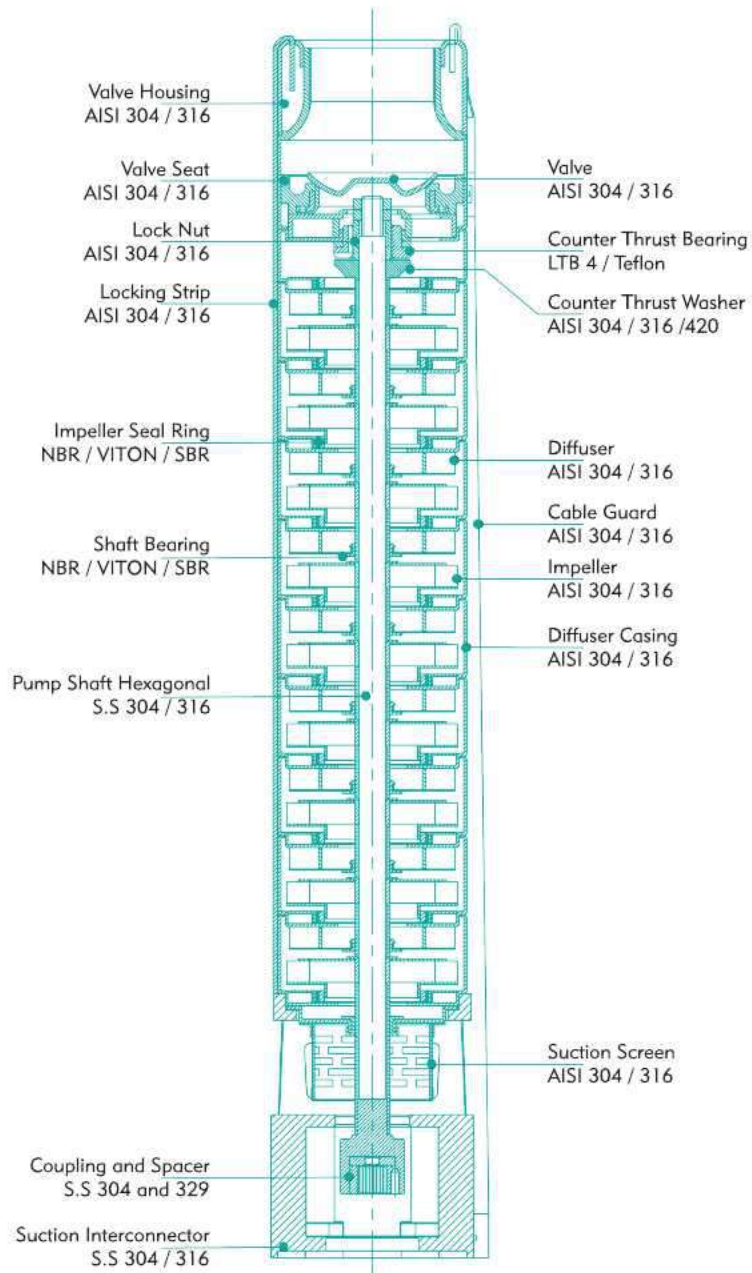


Pump Version - TS = AISI 304 Construction  
 Pump Version - TN = AISI 316 Construction  
 NEMA mounting dimensions.

## CONSTRUCTIONAL DATA

### 16gpm and 40gpm Higher Stage Assembly

#### 4" > TS Series > Version TS / TN > Constructional Data of Radial Flow Pump

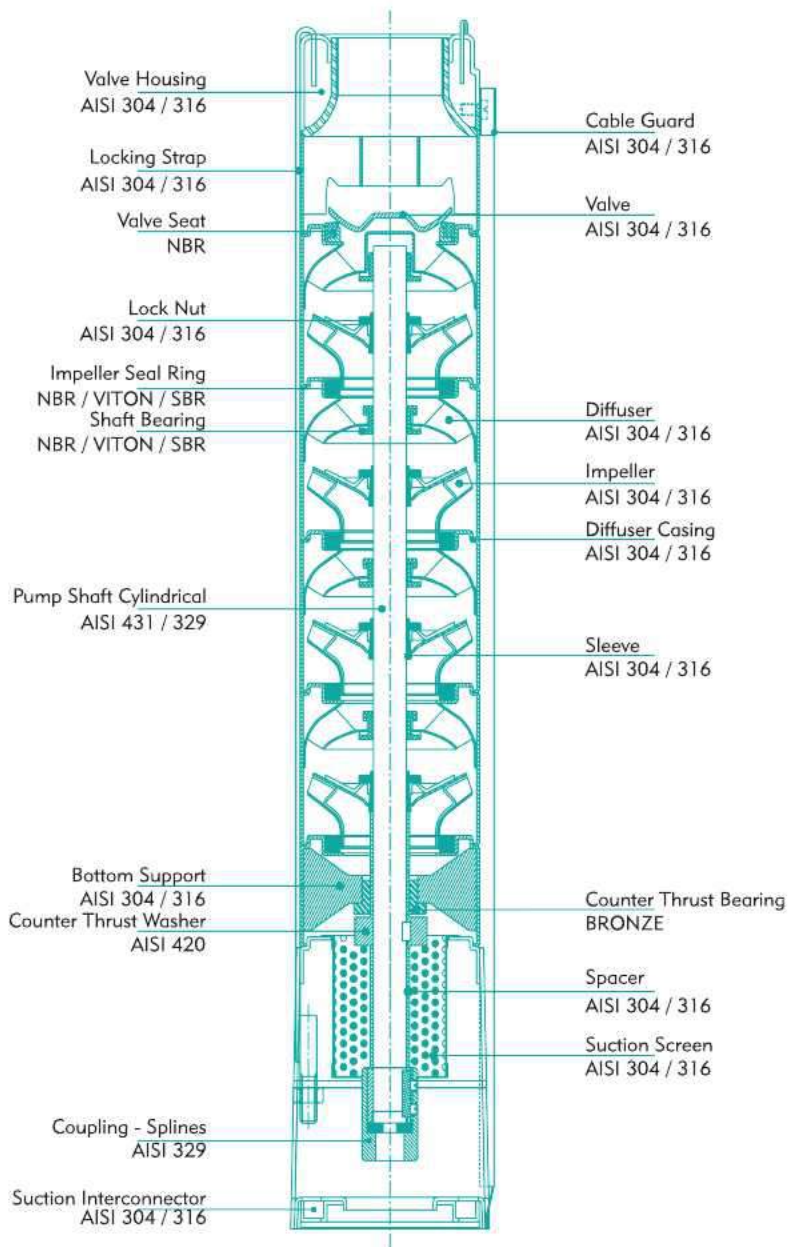


Pump Version - TS = AISI 304 Construction  
 Pump Version - TN = AISI 316 Construction  
 NEMA mounting dimensions.

## CONSTRUCTIONAL DATA

**75gpm**

**4" > TS Series > Version TS / TN > Constructional Data of Semi - Axial Flow Pump**



Pump Version - TS = AISI 304 Construction  
 Pump Version - TN = AISI 316 Construction  
 NEMA mounting dimensions.

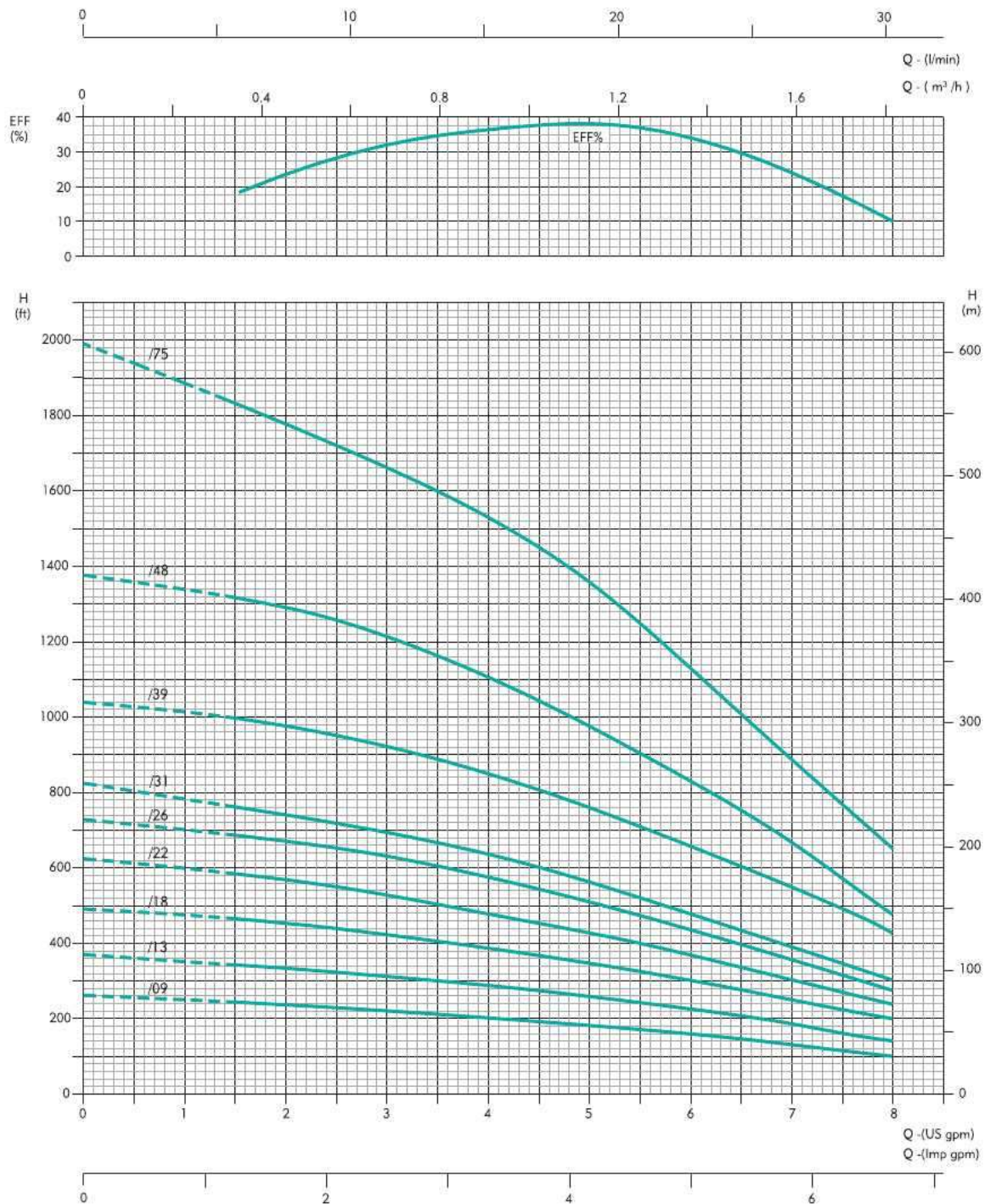
# PERFORMANCE CURVES

## TS / TN SERIES > 4"

Model : **TS 100 - 5**

Outlet Size : **1" NPT**

**3450 rpm**



Curve tolerance according to ISO : 9906, Annex - A.

## PERFORMANCE DATA

### TS / TN SERIES > 4"

Model : **TS 100 - 5**

Outlet Size : **1" NPT**

**3450 rpm**

Pump Model	Power		m <sup>3</sup> /h USGPM	0	0.45	0.91	1.36	1.82
	HP	kW		0	2	4	6	8
TS100-5/09	0.3/0.5	0.22/0.37	TOTAL DYNAMIC HEAD IN FEET	260	235	201	160	100
TS100-5/13	0.5	0.37		370	335	288	225	140
TS100-5/18	0.75	0.55		490	450	385	300	200
TS100-5/22	1	0.75		622	570	479	370	238
TS100-5/26	1.5	1.1		729	670	575	440	275
TS100-5/31	1.5	1.1		822	740	638	475	300
TS100-5/39	2	1.5		1040	975	850	654	428
TS100-5/48	3	2.2		1375	1285	1107	832	477
TS100-5/75	5	3.7		1990	1765	1535	1130	650

\* For AISI 316 replace TS with TN : Performance Data remains same.

### Nett Weights & Dimensions

Pump Model	Dimensions in Inches		Nett Weight (lbs)
	D	H	
TS100-5/09	3.98	14.00	9.70
TS100-5/13	3.98	17.50	12.65
TS100-5/18	3.98	22.00	16.10
TS100-5/22	3.98	25.50	19.10
TS100-5/26	3.98	29.00	22.30
TS100-5/31	3.98	39.30	28.70
TS100-5/39	3.98	47.00	39.20
TS100-5/48	3.98	56.30	45.40
TS100-5/75	3.82	87.9	71.0

Pump Height(H) & Weight(lbs) are approximate.

**These pumps can also be supplied with BSP standard discharge outlet on request.**

All performance data is based on rated input. Tolerance in accordance with ISO 9906 Annex-A.



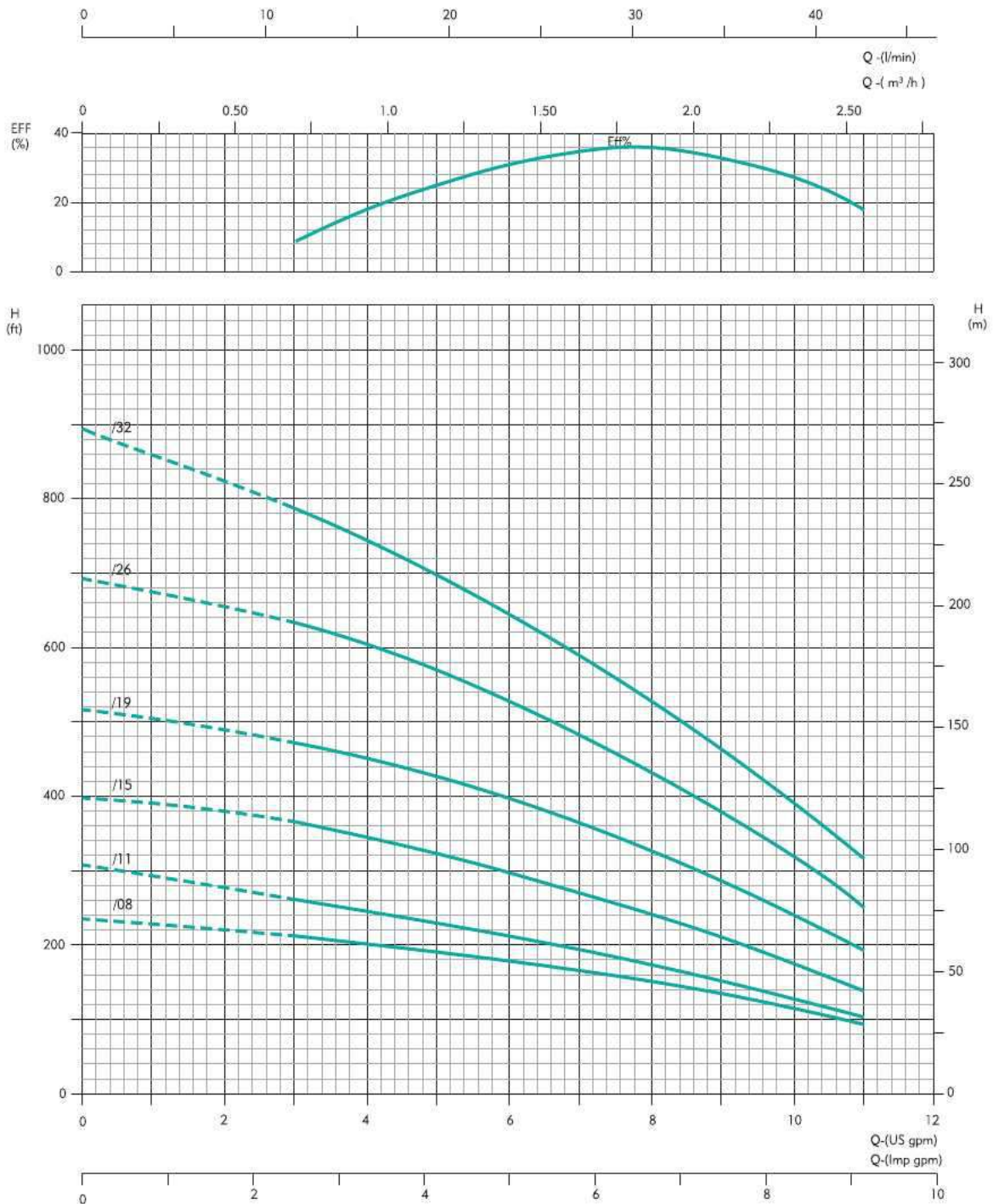
# PERFORMANCE CURVES

## TS / TN SERIES > 4"

Model : **TS 100 - 7**

Outlet Size : **1" NPT**

**3450 rpm**



Curve tolerance according to ISO : 9906, Annex - A.

## PERFORMANCE DATA

### TS / TN SERIES > 4"

Model : **TS 100 - 7**

Outlet Size : **1" NPT**

**3450 rpm**

Pump Model	Power		m <sup>3</sup> /h USGPM	0	0.68	1.36	2.04	2.50
	HP	kW		0	3	6	9	11
TS100-7/08	0.3/0.5	0.22/0.37	TOTAL DYNAMIC HEAD IN FEET	235	212	178	135	90
TS100-7/11	0.5	0.37		309	260	212	150	103
TS100-7/15	0.75	0.55		398	365	299	210	138
TS100-7/19	1	0.75		518	473	398	285	192
TS100-7/26	1.5	1.1		690	632	525	376	250
TS100-7/32	2	1.5		890	789	647	463	320

\* For AISI 316 replace TS with TN : Performance Data remains same.

#### Nett Weights & Dimensions

Pump Model	Dimensions in Inches		Nett Weight (lbs)
	D	H	
TS100-7/08	3.82	13.10	9.30
TS100-7/11	3.82	15.70	11.40
TS100-7/15	3.82	19.20	14.10
TS100-7/19	3.82	22.70	16.80
TS100-7/26	3.82	28.70	22.30
TS100-7/32	3.82	40.20	29.30



Pump Height(H) & Weight(lbs) are approximate.

**These pumps can also be supplied with BSP standard discharge outlet on request.**

All performance data is based on rated input. Tolerance in accordance with ISO 9906 Annex-A.

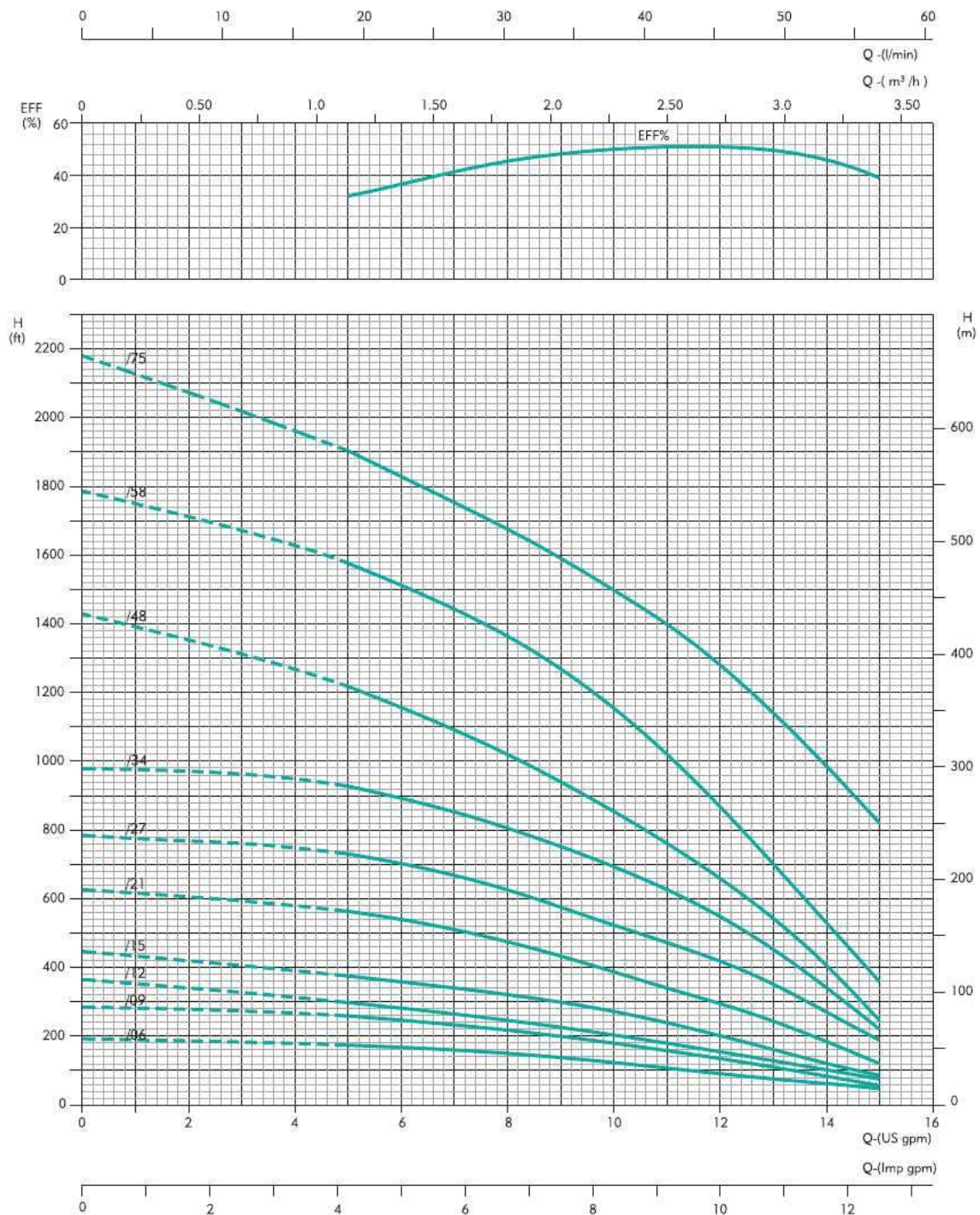
# PERFORMANCE CURVES

## TS / TN SERIES > 4"

Model : **TS 100 - 10**

Outlet Size : **1¼" / 1½" NPT**

**3450 rpm**



Curve tolerance according to ISO : 9906, Annex - A.



## PERFORMANCE DATA

### TS / TN SERIES > 4"

Model : **TS 100 - 10**

Outlet Size : **1¼" / 1½" NPT**

**3450 rpm**

Pump Model	Motor Power		m <sup>3</sup> /h USGPM	0	1.36	1.81	1.81	2.27	2.72	3.40
	HP	kW		0	6	8	9	10	12	15
TS100-10/06	0.3/0.5	0.22/0.37	TOTAL DYNAMIC HEAD IN FEET	191	169	150	143	120	90	45
TS100-10/09	0.5	0.37		280	250	221	200	180	135	55
TS100-10/12	0.75	0.55		365	280	247	219	200	160	75
TS100-10/15	1	0.75		445	360	322	300	277	200	87
TS100-10/21	1.5	1.1		625	540	478	432	386	297	125
TS100-10/27	2	1.5		786	700	625	578	520	420	188
TS100-10/34	3	2.2		975	895	805	750	700	550	220
TS100-10/48	5	3.7		1425	1160	1025	941	850	660	245
TS100-10/58	5	3.7		1785	1515	1360	1270	1150	865	360
TS100-10/75	7.5	5.5		2180	1829	1680	1591	1500	1280	820

\* For AISI 316 replace TS with TN : Performance Data remains same.

### Nett Weights & Dimensions

Pump Model	Dimensions in Inches		Nett Weight (lbs)
	D	H	
TS100-10/06	3.82	11.40	9.00
TS100-10/09	3.98	14.50	10.60
TS100-10/12	3.98	16.60	12.10
TS100-10/15	3.98	19.50	13.50
TS100-10/21	3.98	24.50	16.30
TS100-10/27	3.98	30.00	19.40
TS100-10/34	3.98	42.10	22.90
TS100-10/48	3.98	56.30	33.50
TS100-10/58	3.98	65.70	41.50
TS100-10/75	3.98	85.0	53.60



Pump Height(H) & Weight(lbs) are approximate.

**These pumps can also be supplied with BSP standard discharge outlet on request.**

All performance data is based on rated input. Tolerance in accordance with ISO 9906 Annex-A.

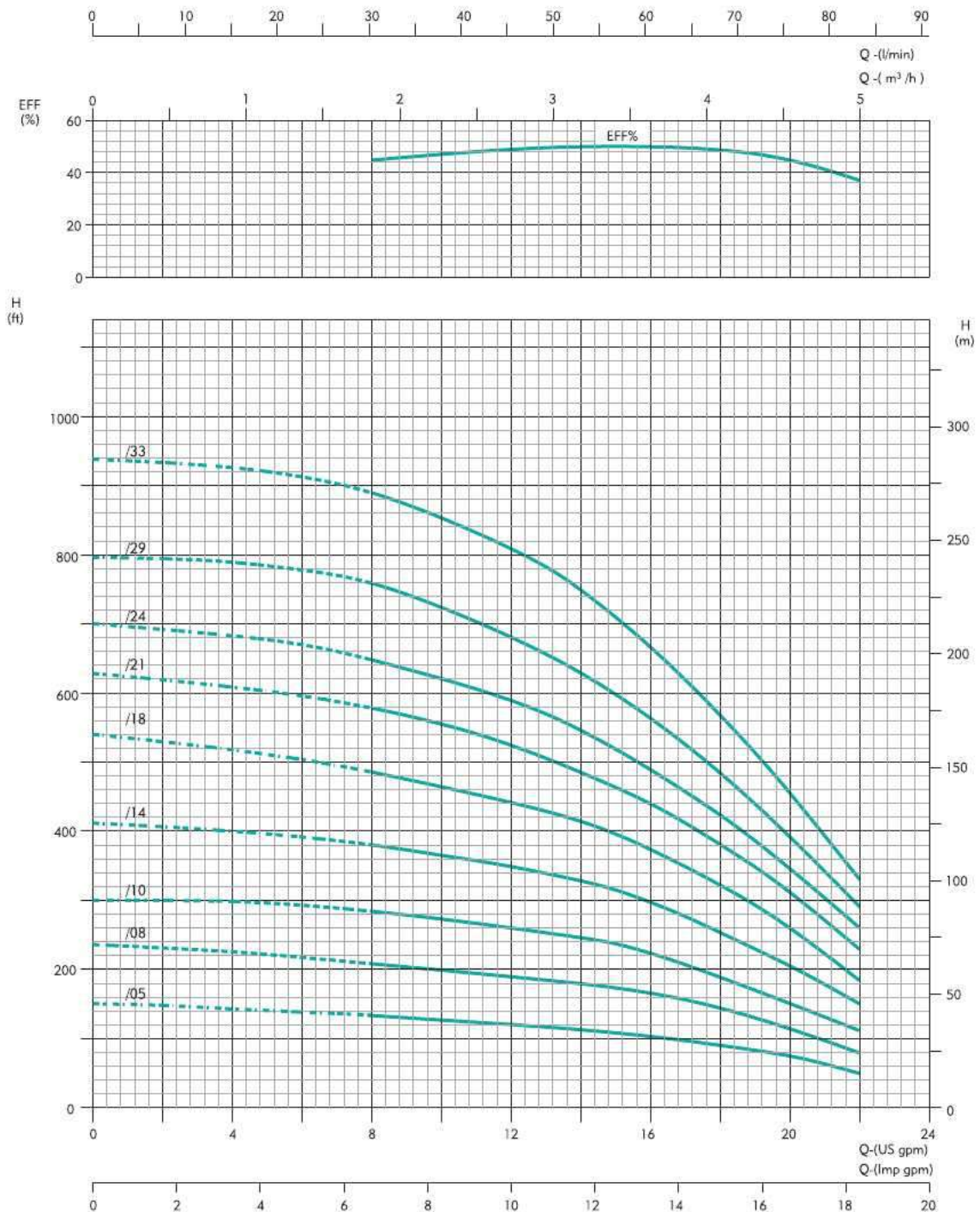
# PERFORMANCE CURVES

## TS / TN SERIES > 4"

Model : **TS 100 - 16**

Outlet Size : **1 1/4" / 1 1/2" NPT**

**3450 rpm**



Curve tolerance according to ISO : 9906, Annex - A.

## PERFORMANCE DATA

### TS / TN SERIES > 4"

Model : **TS 100 - 16**

Outlet Size : **1¼" / 1½" NPT**

**3450 rpm**

Pump Model	Power		m <sup>3</sup> /h USGPM	0	2.27	2.72	3.18	3.6	4.09	4.5	5.00
	HP	kW		0	10	12	14	16	18	20	22
TS100-16/05	0.5	0.37	TOTAL DYNAMIC HEAD IN FEET	150	130	120	115	105	90	80	50
TS100-16/08	0.75	0.55		235	200	190	180	170	145	116	80
TS100-16/10	1	0.75		300	277	260	243	230	190	150	115
TS100-16/14	1.5	1.1		415	365	350	330	299	255	201	155
TS100-16/18	2	1.5		540	465	445	415	375	320	264	180
TS100-16/21	3	2.2		630	560	523	480	440	380	310	230
TS100-16/24	3	2.2		700	620	590	550	490	425	350	260
TS100-16/29	4/5	3/3.7		798	723	680	630	560	486	396	290
TS100-16/33	5	3.7		940	855	810	750	670	570	457	335

\* For AISI 316 replace TS with TN : Performance Data remains same.

### Nett Weights & Dimensions

Pump Model	Dimensions in Inches		Nett Weight (lbs)
	D	H	
TS100-16/05	3.82	10.60	6.80
TS100-16/08	3.82	13.20	8.60
TS100-16/10	3.82	14.90	9.50
TS100-16/14	3.82	18.40	12.60
TS100-16/18	3.82	21.80	15.40
TS100-16/21	3.82	24.40	17.40
TS100-16/24	3.82	27.00	19.60
TS100-16/29	3.82	31.30	22.50
TS100-16/33	3.82	34.80	28.40



Pump Height(H) & Weight(lbs) are approximate.

**These pumps can also be supplied with BSP standard discharge outlet on request.**

All performance data is based on rated input. Tolerance in accordance with ISO 9906 Annex-A.

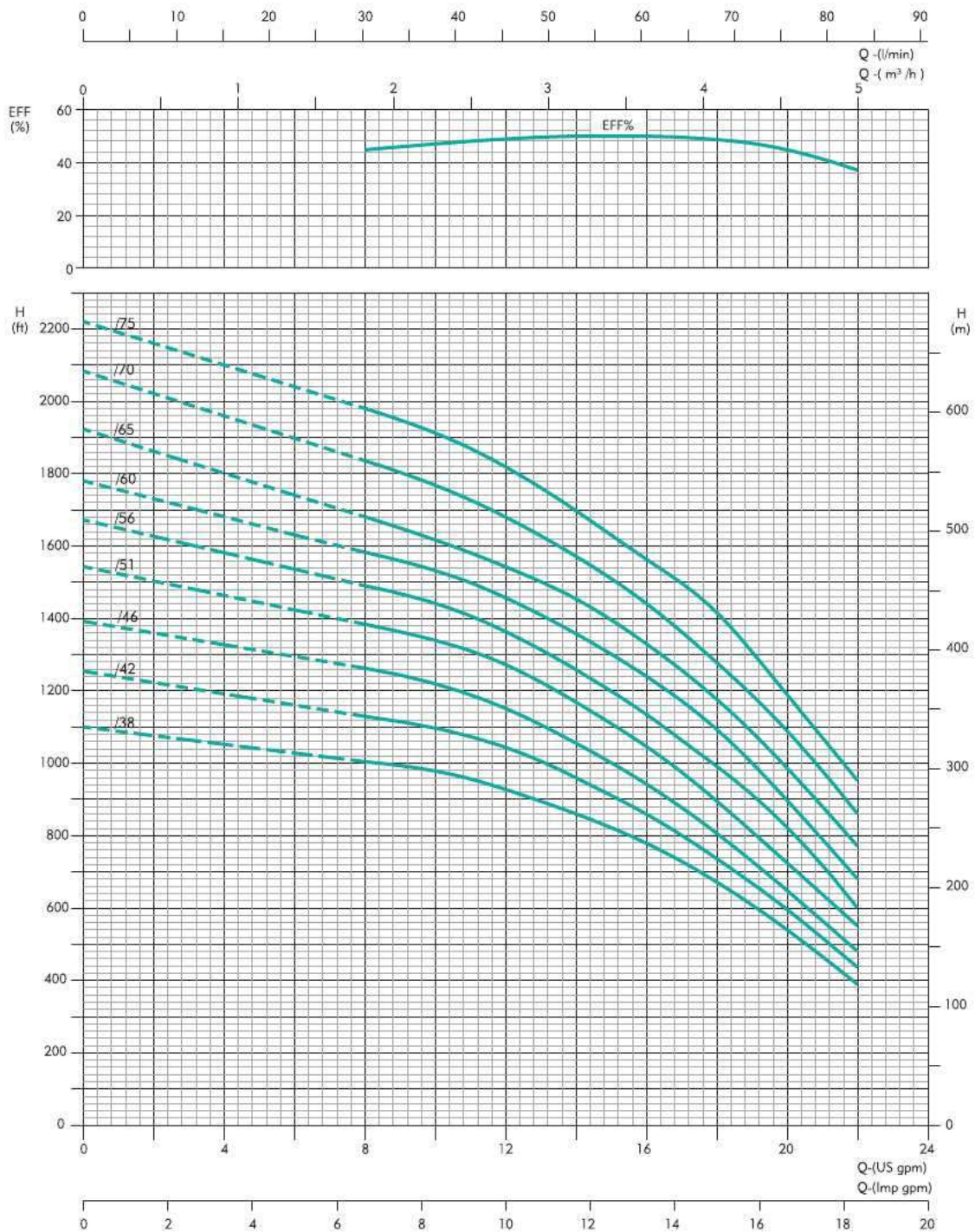
# PERFORMANCE CURVES

## TS / TN SERIES > 4"

Model : **TS 100 - 16**

Outlet Size : **1¼" / 1½" NPT**

**3450 rpm**



Curve tolerance according to ISO : 9906, Annex - A.

## PERFORMANCE DATA

### TS / TN SERIES > 4"

Model : **TS 100 - 16**

Outlet Size : **1¼" / 1½" NPT**

**3450 rpm**

Pump Model	Power		m <sup>3</sup> /h USGPM	0	2.27	2.72	3.18	3.60	4.09	4.5	5.00
	HP	kW		0	10	12	14	16	18	20	22
TS100-16/38	5	3.7	TOTAL DYNAMIC HEAD IN FEET	1100	980	929	860	780	671	540	389
TS100-16/42	6 / 7.5	4 / 5.5		1254	1098	1040	960	862	740	600	436
TS100-16/46	6 / 7.5	4 / 5.5		1392	1230	1151	1060	945	810	651	480
TS100-16/51	7.5	5.5		1543	1344	1269	1170	1050	900	724	550
TS100-16/56	7.5	5.5		1672	1446	1369	1260	1140	990	820	600
TS100-16/60	7.5	5.5		1780	1534	1461	1360	1244	1095	900	680
TS100-16/65	10	7.5		1923	1620	1544	1455	1332	1180	992	771
TS100-16/70	10	7.5		2083	1774	1684	1574	1448	1280	1089	860
TS100-16/75	10	7.5		2220	1920	1824	1700	1560	1420	1180	952

\* For AISI 316 replace TS with TN : Performance Data remains same.

### Nett Weights & Dimensions

Pump Model	Dimensions in Inches		Nett Weight (lbs)
	D	H	
TS100-16/38	3.82	45.9	33.3
TS100-16/42	3.82	50.6	35.1
TS100-16/46	3.82	54.4	36.6
TS100-16/51	3.82	59.1	40.6
TS100-16/56	3.82	63.9	43.6
TS100-16/60	3.82	68.6	46.7
TS100-16/65	3.82	73.3	50.1
TS100-16/70	3.82	78.0	52.9
TS100-16/75	3.82	82.8	56.4



Pump Height(H) & Weight(lbs) are approximate.

**These pumps can also be supplied with BSP standard discharge outlet on request.**

All performance data is based on rated input. Tolerance in accordance with ISO 9906 Annex-A.

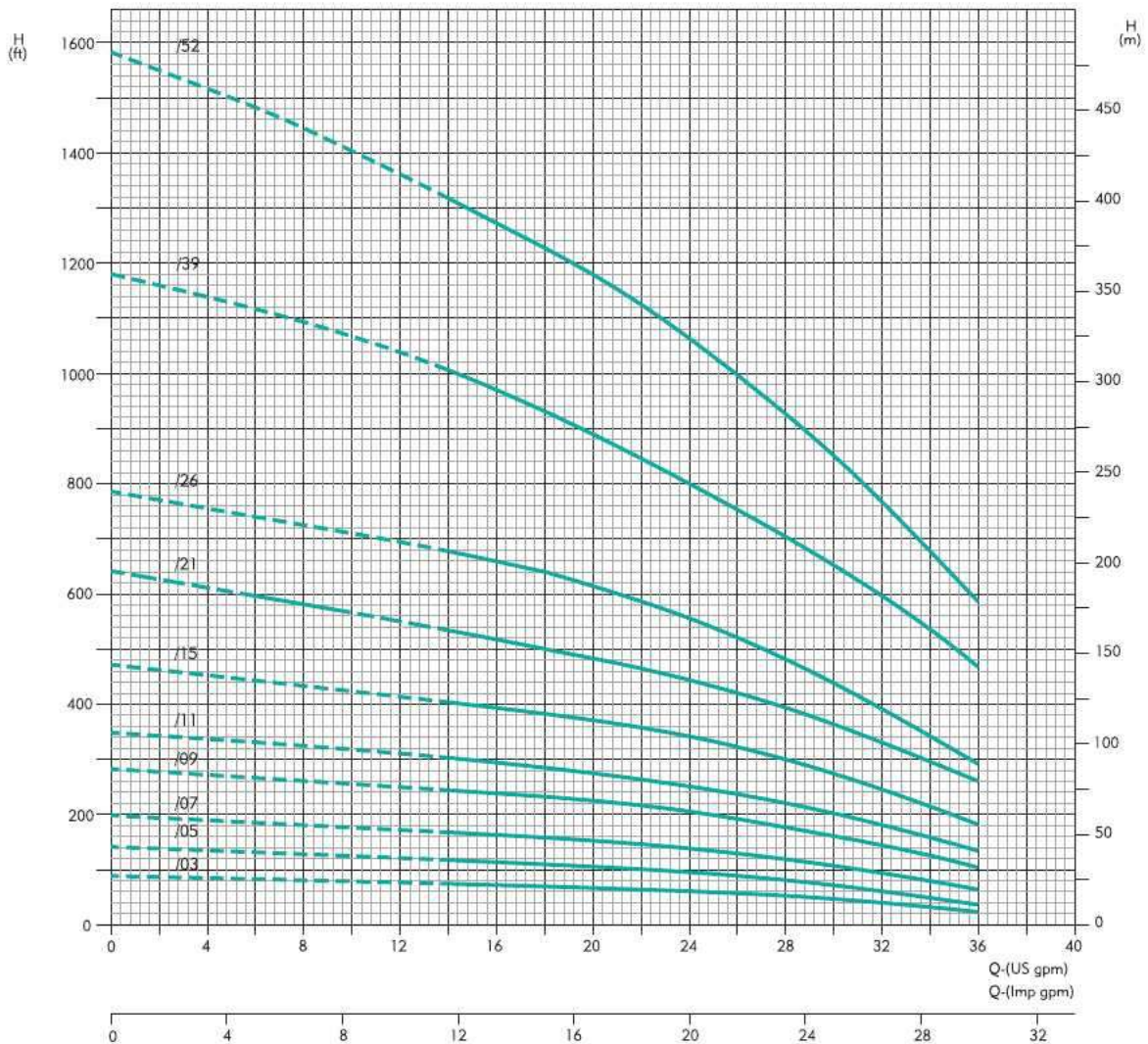
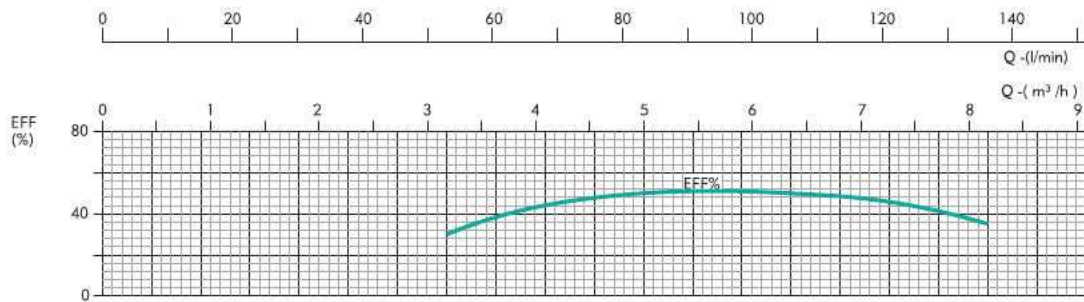
# PERFORMANCE CURVES

## TS / TN SERIES > 4"

Model : **TS 100 - 25**

Outlet Size : **1½" NPT**

**3450 rpm**



Curve tolerance according to ISO : 9906, Annex - A.

## PERFORMANCE DATA

### TS / TN SERIES > 4"

Model : **TS 100 - 25**

Outlet Size : **1½" NPT**

**3450 rpm**

Pump Model	Power		m <sup>3</sup> /h USGPM	0	3.2	4.1	5	5.7	6.4	7.3	8.2
	HP	kW		0	14	18	22	25	28	32	36
TS100-25/03	0.5	0.37	TOTAL DYNAMIC HEAD IN FEET	90	75	68	64	60	50	40	25
TS100-25/05	0.75	0.55		140	116	115	100	96	80	60	36
TS100-25/07	1	0.75		200	172	160	148	138	122	97	65
TS100-25/09	1.5	1.1		278	249	235	220	200	175	147	105
TS100-25/11	2	1.5		350	300	288	265	247	223	177	136
TS100-25/15	3	2.2		472	401	379	357	335	300	247	180
TS100-25/21	4 / 5	3 / 3.7		640	533	500	469	434	391	336	260
TS100-25/26	5	3.7		786	675	640	587	542	477	392	298
TS100-25/39	7.5	5.5		1180	1006	937	847	780	704	597	469
TS100-25/52	10	7.5		1580	1320	1230	1125	1038	930	766	585

\* For AISI 316 replace TS with TN : Performance Data remains same.

### Nett Weights & Dimensions

Pump Model	Dimensions in Inches		Nett Weight (lbs)
	D	H	
TS100-25/03	3.82	9.0	2.90
TS100-25/05	3.82	110.9	4.20
TS100-25/07	3.82	12.80	5.70
TS100-25/09	3.82	14.70	7.30
TS100-25/11	3.82	16.60	9.00
TS100-25/15	3.82	20.14	12.30
TS100-25/21	3.82	26.00	17.60
TS100-25/26	3.82	36.80	21.80
TS100-25/39	3.82	50.10	33.1
TS100-25/52	3.82	66.8	44.1



Pump Height(H) & Weight(lbs) are approximate.

**These pumps can also be supplied with BSP standard discharge outlet on request.**

All performance data is based on rated input. Tolerance in accordance with ISO 9906 Annex-A.

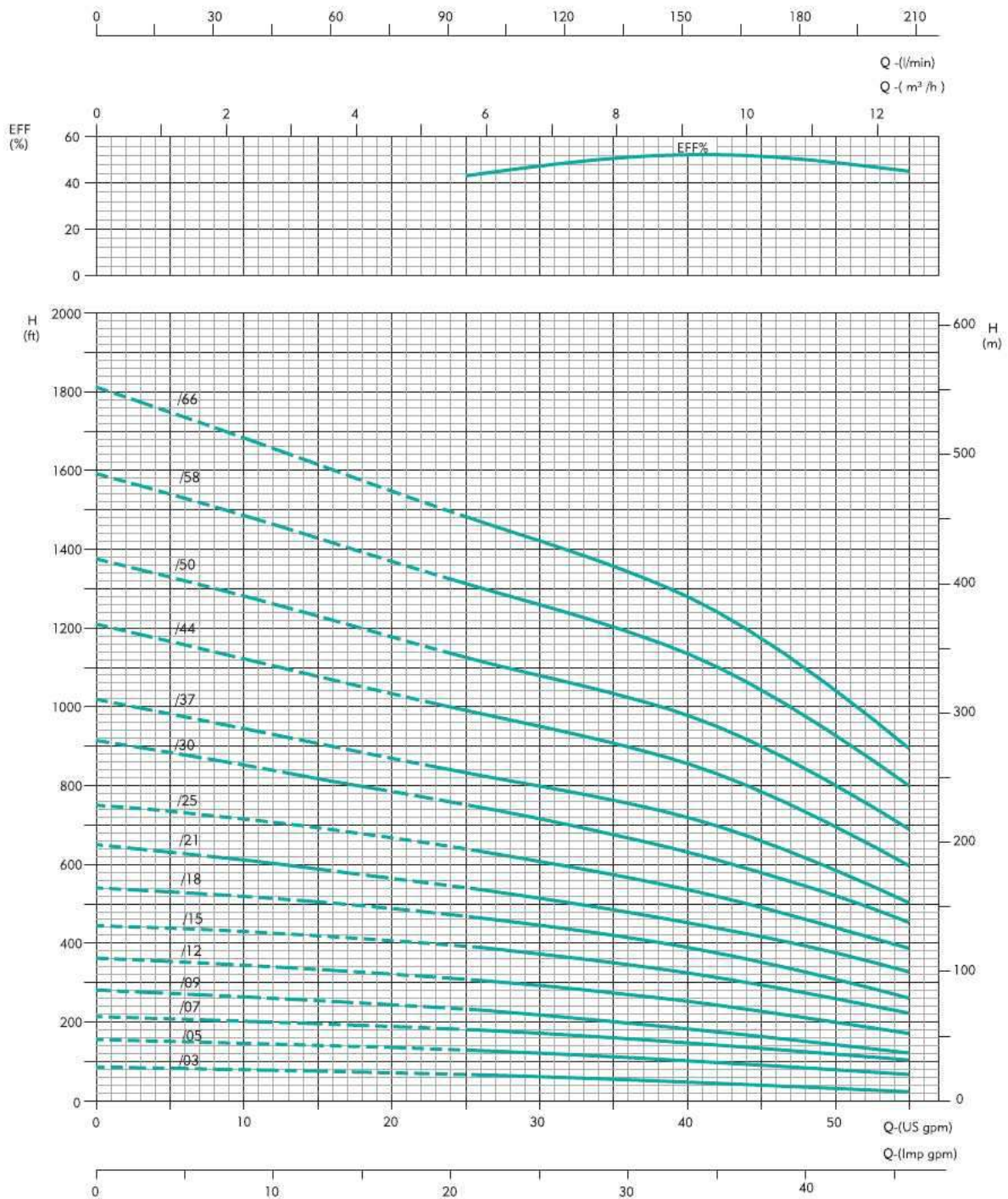
# PERFORMANCE CURVES

## TS / TN SERIES > 4"

Model : **TS 100 - 40**

Outlet Size : **2" NPT**

**3450 rpm**



Curve tolerance according to ISO : 9906, Annex - A.



## PERFORMANCE DATA

### TS / TN SERIES > 4"

Model : **TS 100 - 40**

Outlet Size : **2" NPT**

**3450 rpm**

Pump Model	Power		m <sup>3</sup> /h USGPM	0	3.41	6.81	10.22	12.7
	HP	kW		0	15	30	45	55
TS100-40/03	1	0.75	TOTAL DYNAMIC HEAD IN FEET	88	75	62	40	20
TS100-40/05	1.5	1.1		158	140	120	90	60
TS100-40/07	2	1.5		212	195	170	135	100
TS100-40/09	3	2.2		280	255	220	160	126
TS100-40/12	5	3.7		360	330	296	226	170
TS100-40/15	5	3.7		440	420	370	296	223
TS100-40/18	7.5	5.5		540	500	448	358	260
TS100-40/21	7.5	5.5		650	530	513	420	325
TS100-40/25	7.5	5.5		750	690	606	496	390
TS100-40/30	10	7.5		915	820	715	585	455
TS100-40/37-6	12.5/15	9.3/11		1020	900	800	660	500
TS100-40/44-6	15	11		1210	1080	950	785	599
TS100-40/50-6	17.5/20	13/15		1377	1230	1080	900	696
TS100-40/58-6	20	15		1590	1422	1260	1040	800
TS100-40/66-6	20	15		1810	1620	1420	1179	899

\* For AISI 316 replace TS with TN : Performance Data remains same.

### Nett Weights & Dimensions

Pump Model	Dimensions in Inches		Nett Weight (lbs)
	D	H	
TS100-40/03	3.82	13.30	7.50
TS100-40/05	3.82	16.10	9.90
TS100-40/07	3.82	19.00	12.30
TS100-40/09	3.82	21.80	14.60
TS100-40/12	3.82	26.1	16.8
TS100-40/15	3.82	30.3	20.3
TS100-40/18	3.82	35.5	23.4
TS100-40/21	3.82	39.8	26.5
TS100-40/25	3.82	45.4	30.4
TS100-40/30	3.82	52.5	35.3
TS100-40/37-6	3.82	64.8	43.3
TS100-40/44-6	3.82	77.1	51.5
TS100-40/50-6	3.82	87.5	58.5
TS100-40/58-6	3.82	101.5	67.9
TS100-40/66-6	3.82	115.5	77.2

Pump Height(H) & Weight(lbs) are approximate.

**These pumps can also be supplied with BSP standard discharge outlet on request.**



All performance data is based on rated input. Tolerance in accordance with ISO 9906 Annex-A.

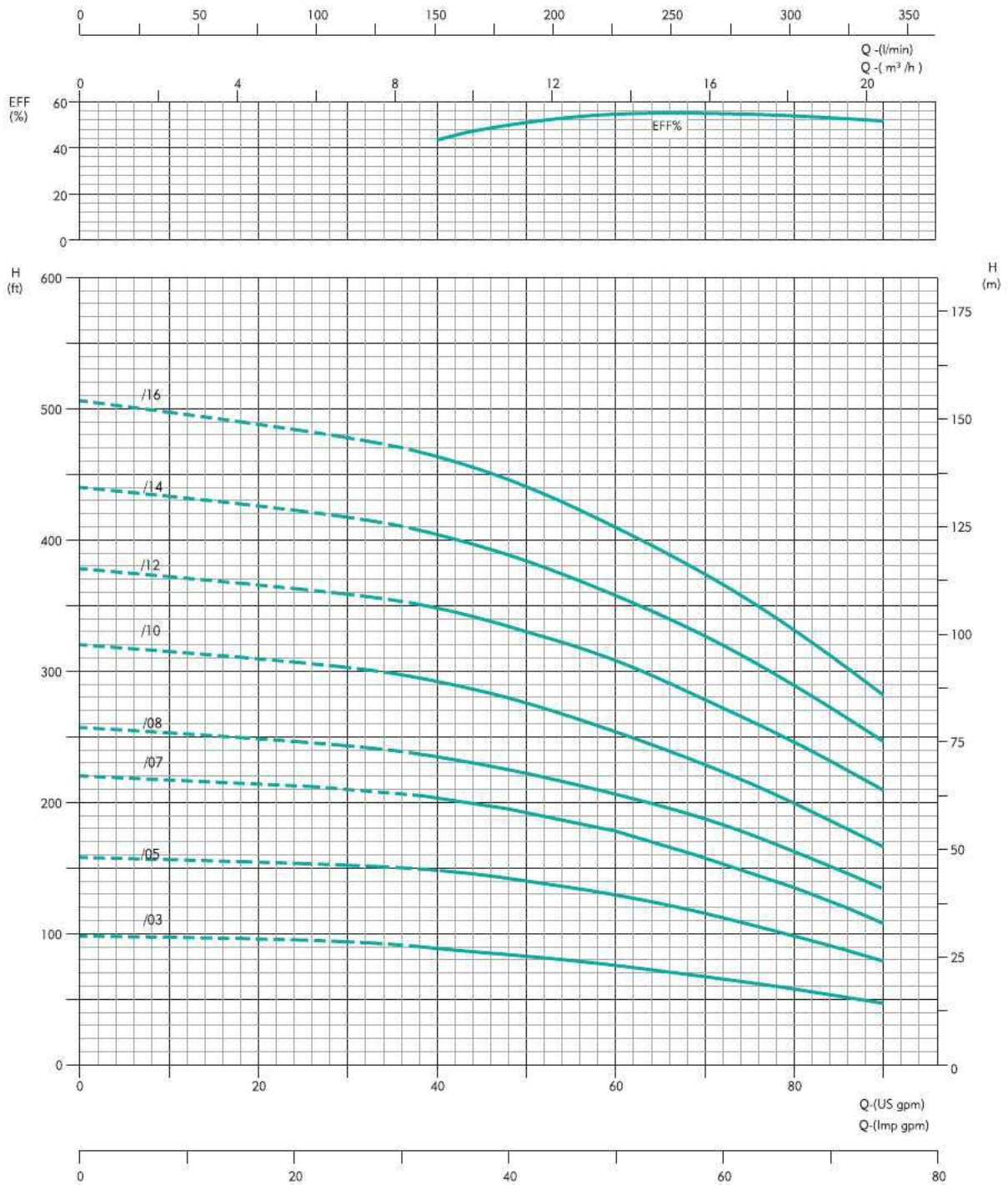
# PERFORMANCE CURVES

## TS / TN SERIES > 4"

Model : **TS 100 - 75**

Outlet Size : **2" NPT**

**3450 rpm**



Curve tolerance according to ISO : 9906, Annex - A.

## PERFORMANCE DATA

### TS / TN SERIES > 4"

Model : **TS 100 - 75**

Outlet Size : **2" NPT**

**3450 rpm**

Pump Model	Power		m <sup>3</sup> /h USGPM	0	6.81	13.63	18.17	20.40
	HP	kW		0	30	60	80	90
TS100-75/03	2	1.5	TOTAL DYNAMIC HEAD IN FEET	99	95	76	59	47
TS100-75/05	3	2.2		159	152	127	99	78
TS100-75/07	5	3.7		220	210	179	136	110
TS100-75/08	5	3.7		259	243	207	161	135
TS100-75/10	7.5	5.5		320	305	256	200	164
TS100-75/12	7.5	5.5		379	358	310	247	210
TS100-75/14	10	7.5		440	418	357	287	247
TS100-75/16	10	7.5		507	478	410	330	280

\* For AISI 316 replace TS with TN : Performance Data remains same.

### Nett Weights & Dimensions

Pump Model	Dimensions in Inches		Nett Weight (lbs)
	D	H	
TS100-75/03	3.98	17.50	11.50
TS100-75/05	3.98	22.60	14.30
TS100-75/07	3.98	27.70	17.20
TS100-75/08	3.98	30.20	18.70
TS100-75/10	3.98	35.40	21.80
TS100-75/12	3.98	40.50	24.70
TS100-75/14	3.98	46.00	28.00
TS100-75/16	3.98	50.70	31.80

Pump Height(H) & Weight(lbs) are approximate.

**These pumps can also be supplied with BSP standard discharge outlet on request.**

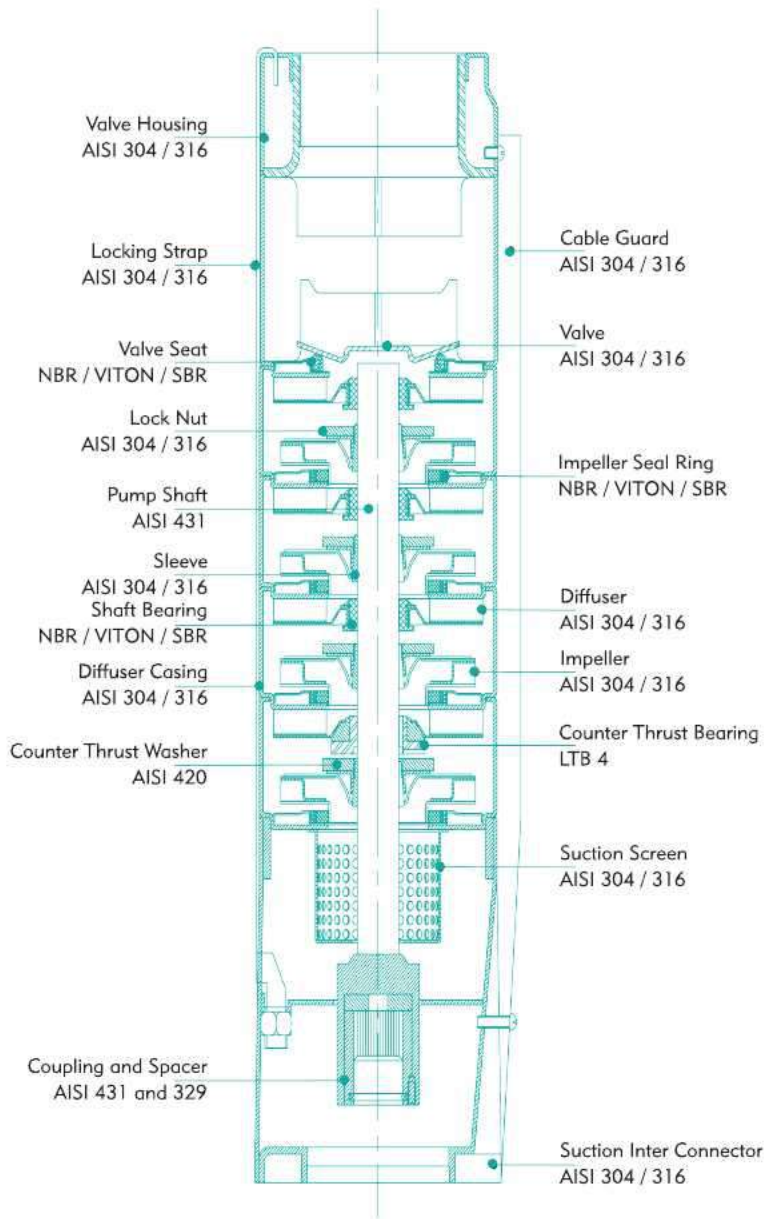
All performance data is based on rated input. Tolerance in accordance with ISO 9906 Annex-A.



## CONSTRUCTIONAL DATA

**85 - 90 gpm**

**6" > TS Series > Version TS / TN >** Constructional Data of Radial Flow Pump

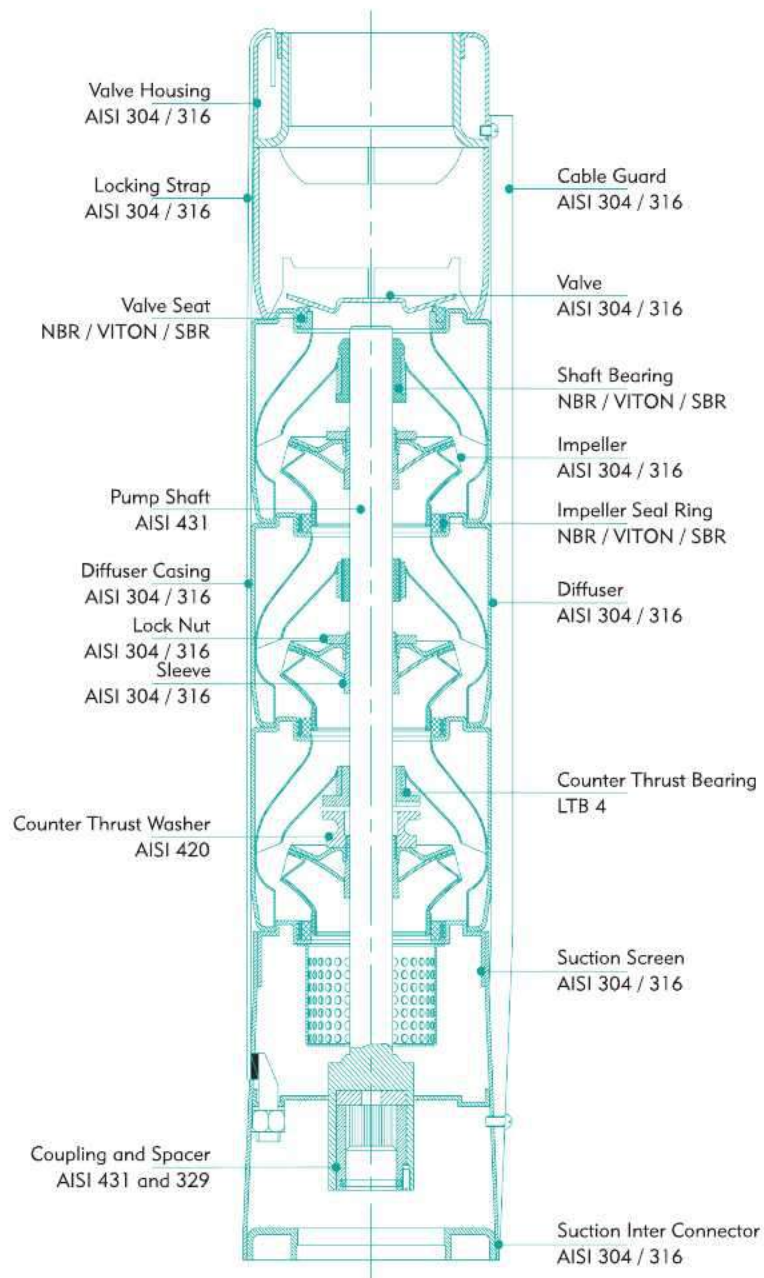


Pump Version - TS = AISI 304 Construction  
 Pump Version - TN = AISI 316 Construction  
 NEMA mounting dimensions.

## CONSTRUCTIONAL DATA

**150 - 300 gpm**

**6" > TS Series > Version TS / TN > Constructional Data of Semi - Axial Flow Pump**



Pump Version - TS = AISI 304 Construction  
 Pump Version - TN = AISI 316 Construction  
 NEMA mounting dimensions.

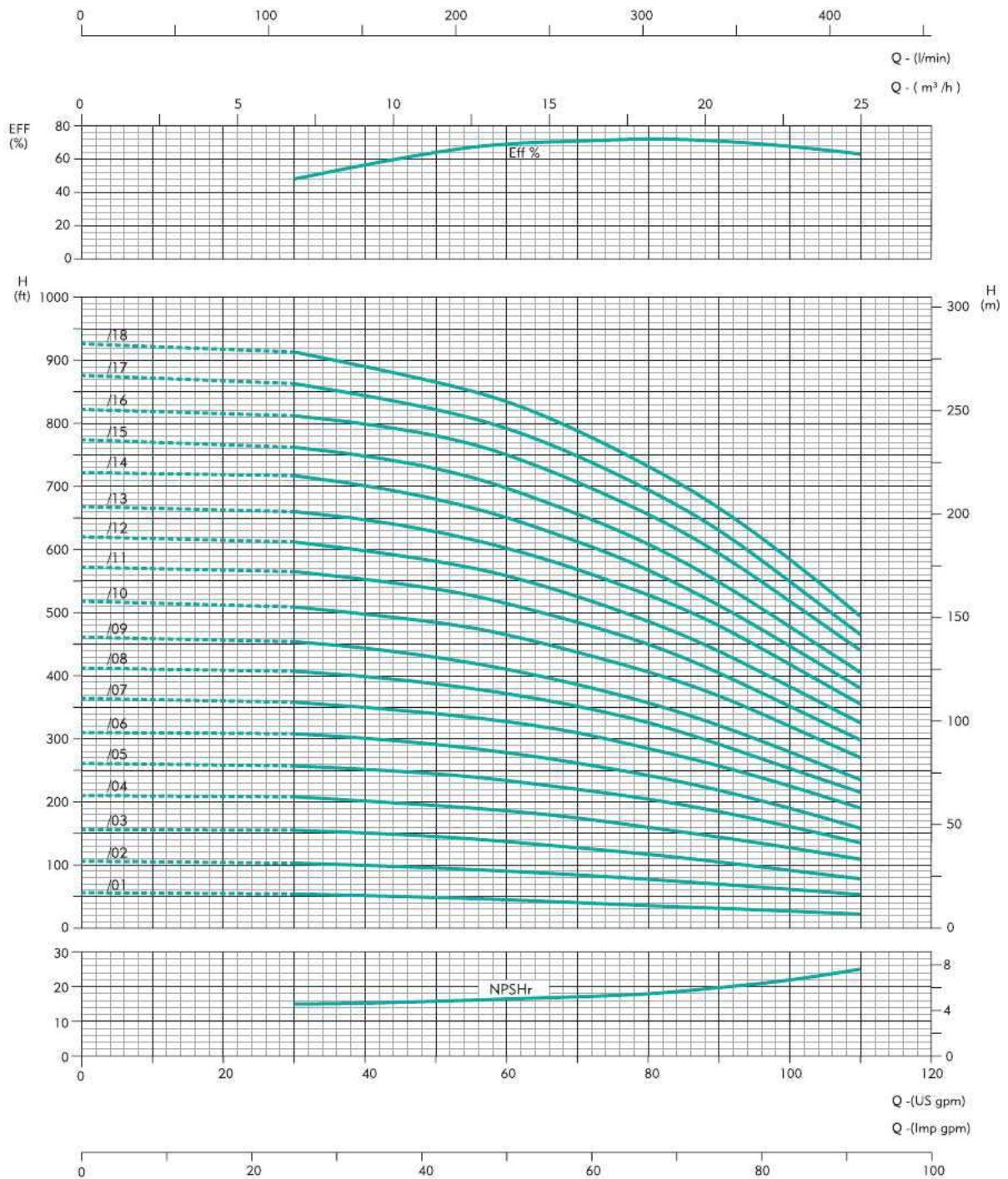
# PERFORMANCE CURVES

## TS / TN SERIES > 6"

Model : **TS 150 - 85**

Outlet Size : **2½" / 3"**

**3450 rpm**



Curve tolerance according to ISO : 9906, Annex - A.

## PERFORMANCE DATA

### TS / TN SERIES > 6"

Model : **TS 150 - 85**

Outlet Size : **2½" / 3"**

**3450 rpm**

Pump Model	Power		m <sup>3</sup> /h USGPM	0	7	11	14	16	18	20	25
	HP	kW		0	30	50	60	70	80	90	110
TS150-85/01-4	1.5	1.1	TOTAL DYNAMIC HEAD IN FEET	56	54	49	46	39	38	35	22
TS150-85/02-4	3	2.2		106	103	97	90	86	78	74	53
TS150-85/03	5	3.7		156	155	146	136	128	118	105	78
TS150-85/04	5	3.7		210	208	194	186	175	159	145	109
TS150-85/05	7.5	5.5		261	257	245	233	221	204	186	135
TS150-85/06	7.5	5.5		310	308	291	277	262	241	220	258
TS150-85/07	10	7.5		364	358	340	329	308	284	256	190
TS150-85/08	10	7.5		412	407	388	371	349	326	290	215
TS150-85/09	10	7.5		461	454	431	410	388	257	325	235
TS150-85/10	15	11		518	509	485	466	428	407	369	270
TS150-85/11	15	11		566	565	538	575	485	430	404	429
TS150-85/12	15	11		620	612	582	559	526	487	440	325
TS150-85/13	15	11		668	660	626	601	566	424	480	355
TS150-85/14	20	15		722	717	681	650	614	567	515	380
TS150-85/15	20	15		774	762	729	698	659	609	530	405
TS150-85/16	20	15		822	812	780	751	707	658	595	440
TS150-85/17	20	15		876	863	823	793	749	696	632	465
TS150-85/18	20	15		926	913	865	836	789	734	662	494

\* For AISI 316 replace TS with TN : Performance Data remains same.

### Nett Weights & Dimensions

Pump Model	Dimensions in Inches			Nett Weight (lbs)
	D1	D2	H	
TS150-85/01	5.6	5.8	13	19
TS150-85/02	5.6	5.8	15	21
TS150-85/03	5.6	5.8	18	23
TS150-85/04	5.6	5.8	20	25
TS150-85/05	5.6	5.8	24	28
TS150-85/06	5.6	5.8	26	30
TS150-85/07	5.6	5.8	29	32
TS150-85/08	5.6	5.8	31	35
TS150-85/09	5.6	5.8	34	37
TS150-85/10	5.6	5.8	36	39
TS150-85/11	5.6	5.8	39	42
TS150-85/12	5.6	5.8	41	44
TS150-85/13	5.6	5.8	44	46
TS150-85/14	5.6	5.8	46	49
TS150-85/15	5.6	5.8	49	51
TS150-85/16	5.6	5.8	51	53
TS150-85/17	5.6	5.8	54	56
TS150-85/18	5.6	5.8	56	58

Pump Height(H) & Weight(lbs) are approximate.

These pumps can also be supplied with BSP standard discharge outlet on request.

All performance data is based on rated input. Tolerance in accordance with ISO 9906 Annex-A.



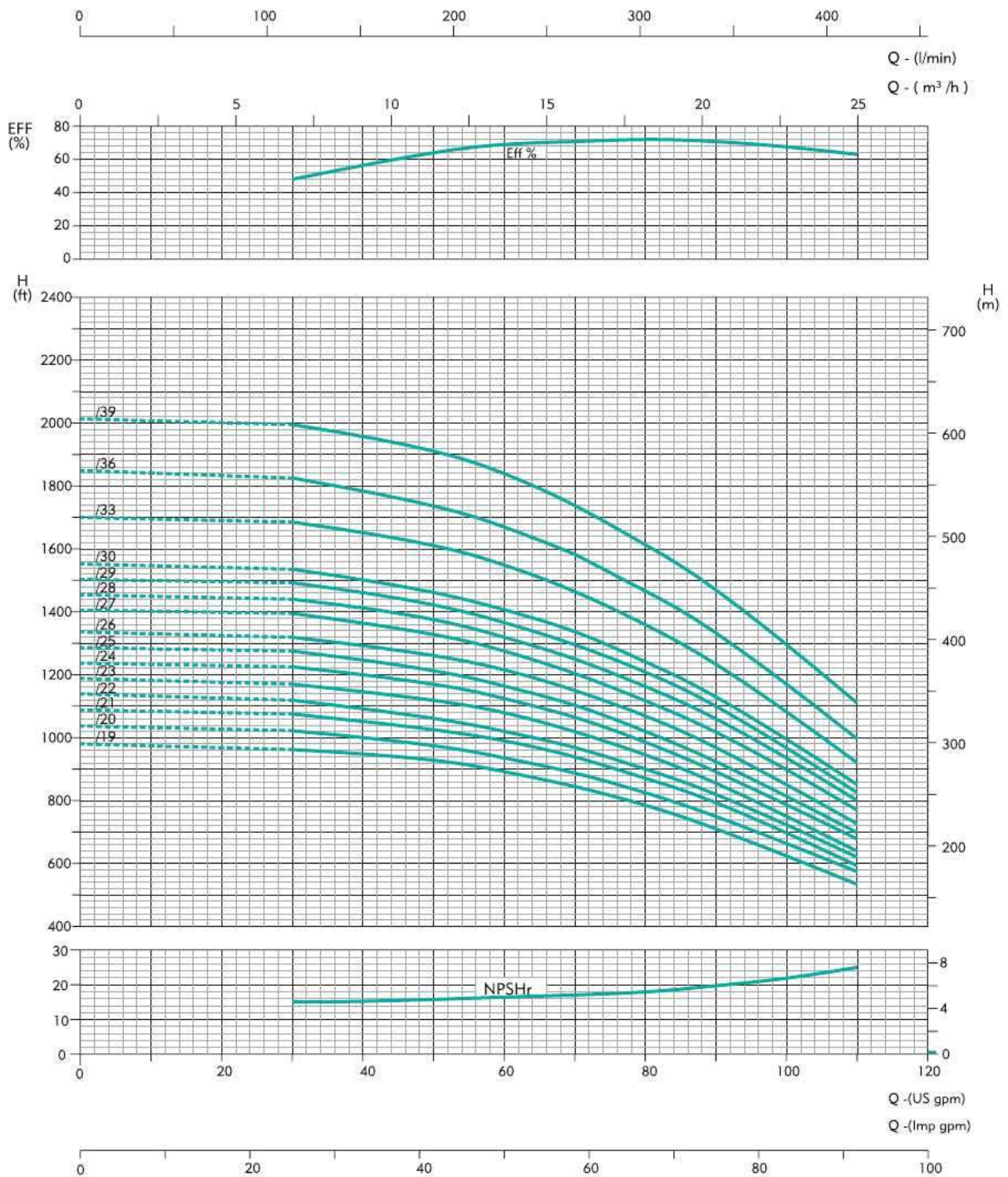
# PERFORMANCE CURVES

## TS / TN SERIES > 6"

Model : **TS 150 - 85**

Outlet Size : **2½" / 3"**

**3450 rpm**



Curve tolerance according to ISO : 9906, Annex - A.



## PERFORMANCE DATA

### TS / TN SERIES > 6"

Model : **TS 150 - 85**

Outlet Size : **2½" / 3"**

**3450 rpm**

Pump Model	Power		m <sup>3</sup> /h USGPM	0	7	11	14	16	18	20	25
	HP	kW		0	30	50	60	70	80	90	110
TS150-85/19	25	18.5	TOTAL DYNAMIC HEAD IN FEET	980	962	930	892	847	785	712	534
TS150-85/20	25	18.5		1037	1022	975	935	888	825	752	574
TS150-85/21	25	18.5		1088	1075	1025	990	940	870	796	593
TS150-85/22	25	18.5		1139	1119	1062	1020	970	899	822	620
TS150-85/23	30	22		1188	1170	1118	1083	1019	948	860	639
TS150-85/24	30	22		1237	1225	1171	1124	1065	987	897	678
TS150-85/25	30	22		1286	1275	1213	1164	1104	1019	925	698
TS150-85/26	30	22		1336	1319	1261	1218	1150	1070	970	726
TS150-85/27	30	22		1405	1395	1330	1278	1205	1118	1021	770
TS150-85/28	40	30		1454	1440	1379	1320	1251	1164	1065	800
TS150-85/29	40	30		1503	1492	1427	1368	1298	1211	1105	825
TS150-85/30	40	30		1552	1535	1464	1407	1340	1240	1135	851
TS150-85/33	40	30		1700	1685	1613	1549	1465	1358	1237	920
TS150-85/36	40	30		1849	1825	1740	1673	1583	1466	1333	996
TS150-85/39	50	37		2013	1995	1913	1840	1740	1612	1475	1110

\* For AISI 316 replace TS with TN : Performance Data remains same.

### Nett Weights & Dimensions

Pump Model	Dimensions in Inches			Nett Weight (lbs)
	D1	D2	H	
TS150-85/19	5.6	5.8	59	60
TS150-85/20	5.6	5.8	62	63
TS150-85/21	5.6	5.8	64	65
TS150-85/22	5.6	5.8	67	67
TS150-85/23	5.6	5.8	69	69
TS150-85/24	5.6	5.8	72	72
TS150-85/25	5.6	5.8	74	74
TS150-85/26	5.6	5.8	77	77
TS150-85/27	5.6	5.8	79	80
TS150-85/28	5.6	5.8	82	82
TS150-85/29	5.6	5.8	84	84
TS150-85/30	5.6	5.8	87	87
TS150-85/33	5.6	5.8	104	96
TS150-85/36	5.6	5.8	111	105
TS150-85/39	5.6	5.8	119	113

Pump Height(H) & Weight(lbs) are approximate.

These pumps can also be supplied with BSP standard discharge outlet on request.

All performance data is based on rated input. Tolerance in accordance with ISO 9906 Annex-A.



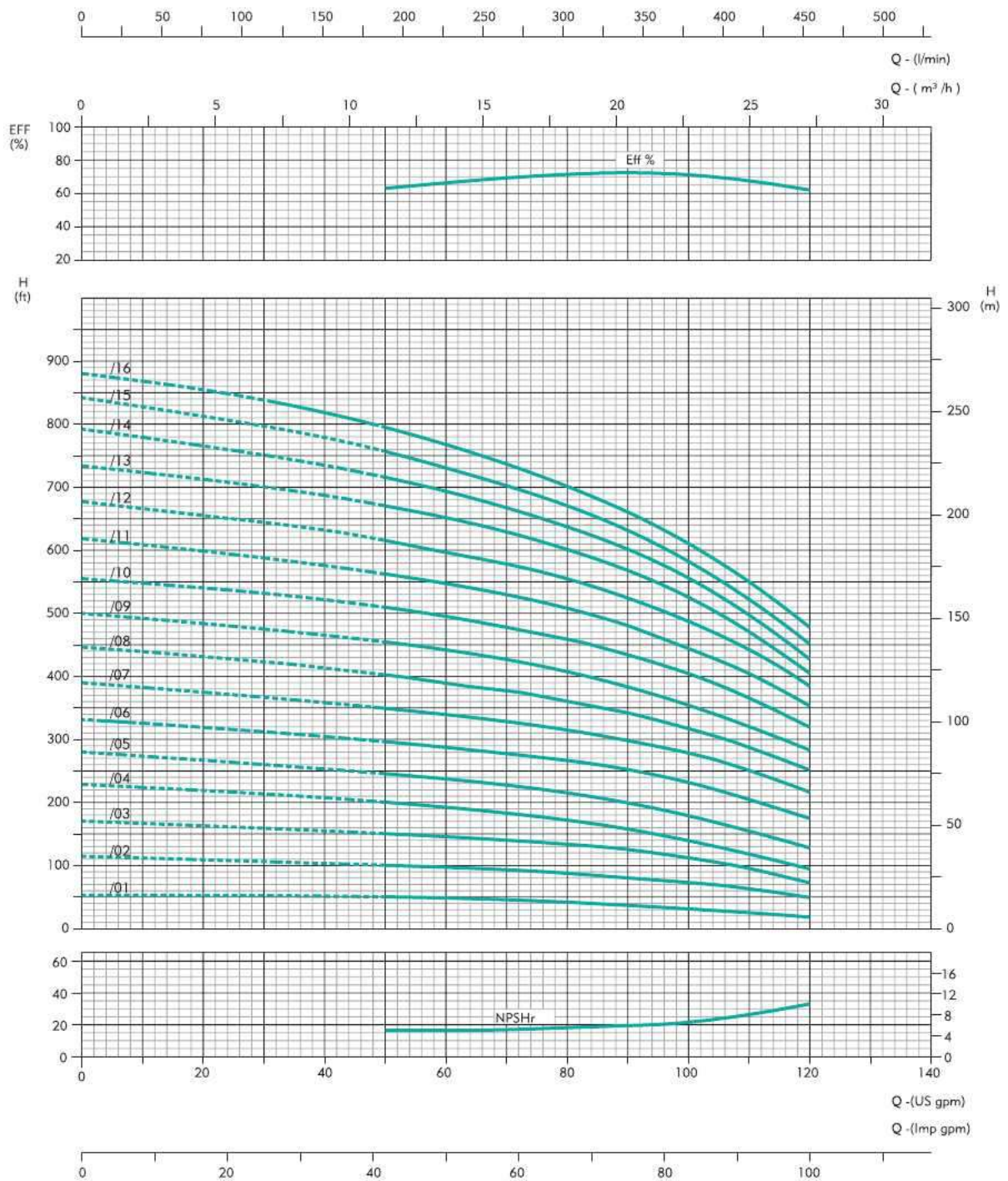
# PERFORMANCE CURVES

## TS / TN SERIES > 6"

Model : **TS 150 - 90**

Outlet Size : **3" NPT**

**3450 rpm**



Curve tolerance according to ISO : 9906, Annex - A.

## PERFORMANCE DATA

### TS / TN SERIES > 6"

Model : **TS 150 - 90**

Outlet Size : **3" NPT**

**3450 rpm**

Pump Model	Power		m <sup>3</sup> /h USGPM	0	11.00	18.17	23.00	27.00
	HP	kW		0	50	80	100	120
TS150-90/01-4	1.5	1.1	TOTAL DYNAMIC HEAD IN FEET	52	50	45	30	20
TS150-90/02-4	3	2.2		117	100	93	74	50
TS150-90/03	4	3		173	150	137	112	70
TS150-90/04	5.5 / 6	4/4.5		230	200	173	140	96
TS150-90/05	7.5	5.5		280	248	215	180	128
TS150-90/06	7.5	5.5		331	298	264	230	175
TS150-90/07	10	7.5		389	315	313	280	215
TS150-90/08	10	7.5		448	402	362	316	250
TS150-90/09	12.5/15	9.3/11		500	454	410	353	283
TS150-90/10	15	11		552	511	459	404	322
TS150-90/11	15	11		622	563	510	448	352
TS150-90/12	15	11		675	615	552	489	386
TS150-90/13	17.5/20	13/15		733	671	600	525	403
TS150-90/14	20	15		790	718	637	556	425
TS150-90/15	20	15		840	759	670	584	450
TS150-90/16	20	15		863	798	700	612	475

\* For AISI 316 replace TS with TN : Performance Data remains same.

### Nett Weights & Dimensions

Pump Model	Dimensions in Inches			Nett Weight (lbs)
	D1	D2	H	
TS150-90/01-4	5.6	5.8	13.2	18
TS150-90/02-4	5.6	5.8	15	20
TS150-90/03	5.6	5.8	17	22
TS150-90/04	5.6	5.8	18.4	24
TS150-90/05	5.6	5.8	20.2	26
TS150-90/06	5.6	5.8	21.9	29
TS150-90/07	5.6	5.8	23.6	31
TS150-90/08	5.6	5.8	25.4	33
TS150-90/09	5.6	5.8	27.1	35
TS150-90/10	5.6	5.8	28.8	37
TS150-90/11	5.6	5.8	31	40
TS150-90/12	5.6	5.8	32	42
TS150-90/13	5.6	5.8	34	44
TS150-90/14	5.6	5.8	36	46
TS150-90/15	5.6	5.8	37	49
TS150-90/16	5.6	5.8	39	51

Pump Height(H) & Weight(lbs) are approximate.

These pumps can also be supplied with BSP standard discharge outlet on request.

All performance data is based on rated input. Tolerance in accordance with ISO 9906 Annex-A.



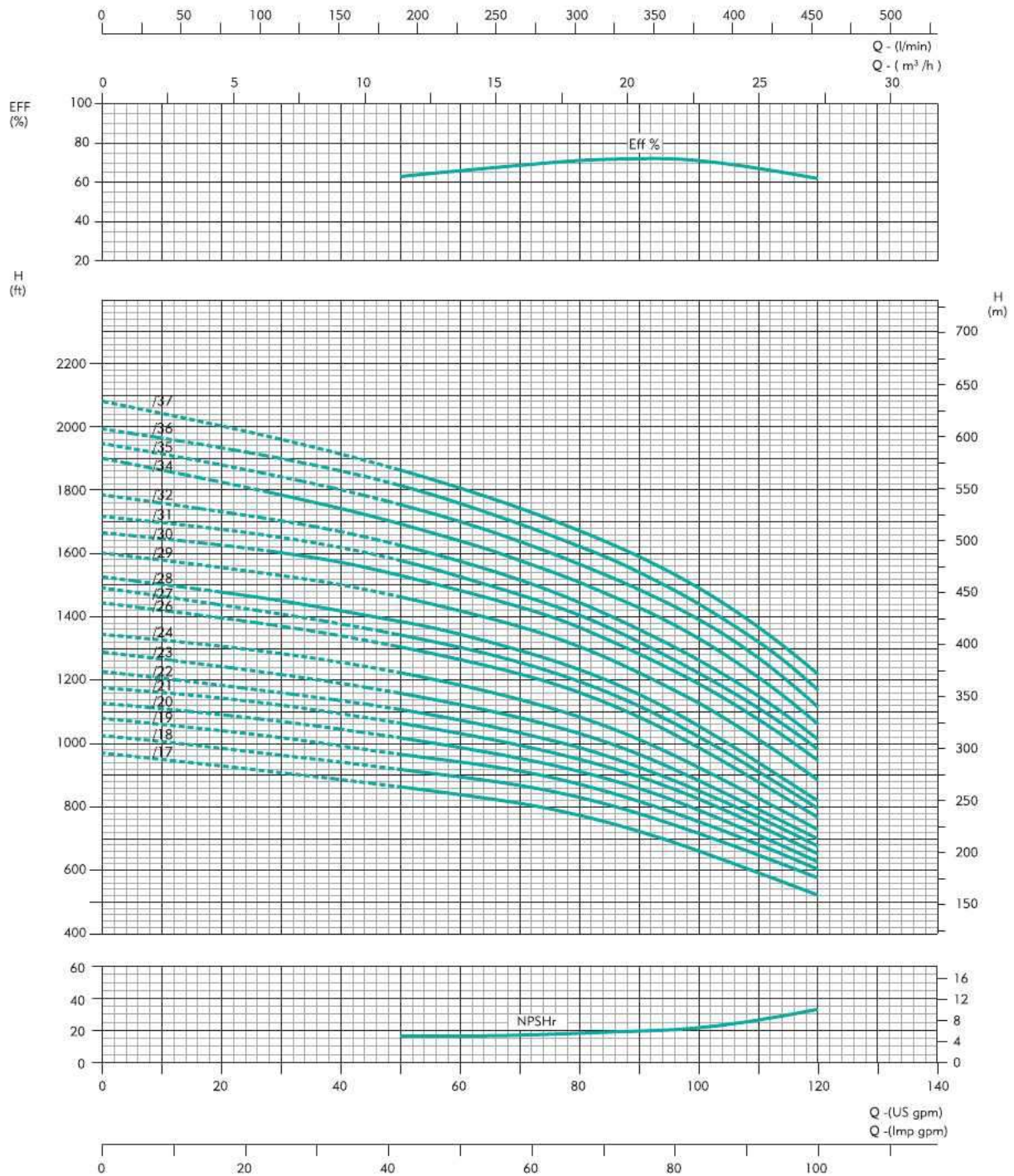
# PERFORMANCE CURVES

## TS / TN SERIES > 6"

Model : **TS 150 - 90**

Outlet Size : **3" NPT**

**3450 rpm**



Curve tolerance according to ISO : 9906, Annex - A.

## PERFORMANCE DATA

### TS / TN SERIES > 6"

Model : **TS 150 - 90**

Outlet Size : **3" NPT**

**3450 rpm**

Pump Model	Power		m <sup>3</sup> /h USGPM	0	11.00	18.17	23.00	27.00
	HP	kW		0	50	80	100	120
TS150-90/17	25	18.5	TOTAL DYNAMIC HEAD IN FEET	970	859	775	661	520
TS150-90/18	25	18.5		1025	918	829	716	563
TS150-90/19	25	18.5		1080	965	870	750	607
TS150-90/20	25	18.5		1132	1017	912	797	620
TS150-90/21	30	22		1175	1060	950	827	655
TS150-90/22	30	22		1231	1107	987	859	676
TS150-90/23	30	22		1285	1163	1035	880	700
TS150-90/24	30	22		1345	1220	1089	925	726
TS150-90/26	35/40	26/30		1440	1305	1164	984	765
TS150-90/27	35/40	26/30		1491	1345	1200	1022	797
TS150-90/28	35/40	26/30		1520	1390	1230	1050	815
TS150-90/29	40	30		1600	1462	1300	1123	890
TS150-90/30	40	30		1664	1524	1360	1198	946
TS150-90/31	40	30		1714	1575	1410	1223	985
TS150-90/32	40	30		1790	1620	1445	1265	1010
TS150-90/34	50	37		1900	1698	1510	1332	1060
TS150-90/35	50	37		1950	1752	1564	1398	1113
TS150-90/36	50	37	1996	1812	1615	1445	1172	
TS150-90/37	50	37	2084	1861	1672	1499	1216	

\* For AISI 316 replace TS with TN : Performance Data remains same.

### Nett Weights & Dimensions

Pump Model	Dimensions in Inches			Nett Weight (lbs)
	D1	D2	H	
TS150-90/17	5.6	5.8	40.90	50.30
TS150-90/18	5.6	5.8	42.70	52.60
TS150-90/19	5.6	5.8	44.40	54.90
TS150-90/20	5.6	5.8	46.10	57.20
TS150-90/21	5.6	5.8	47.90	59.50
TS150-90/22	5.6	5.8	49.60	61.90
TS150-90/23	5.6	5.8	51.30	64.20
TS150-90/24	5.6	5.8	53.10	66.50
TS150-90/26	5.6	5.8	56.50	71.10
TS150-90/27	5.6	5.8	58.30	73.40
TS150-90/28	5.6	5.8	60.00	75.50
TS150-90/29	5.6	5.8	61.70	78.10
TS150-90/30	5.6	5.8	63.50	80.40
TS150-90/31	5.6	5.8	65.20	82.70
TS150-90/32	5.6	5.8	66.90	85.00
TS150-90/34	5.6	5.8	70.40	89.60
TS150-90/35	5.6	5.8	72.00	94.00
TS150-90/36	5.6	5.8	74.00	96.00
TS150-90/37	5.6	5.8	76.00	98.00

Pump Height(H) & Weight(lbs) are approximate.

These pumps can also be supplied with BSP standard discharge outlet on request.

All performance data is based on rated input. Tolerance in accordance with ISO 9906 Annex-A.



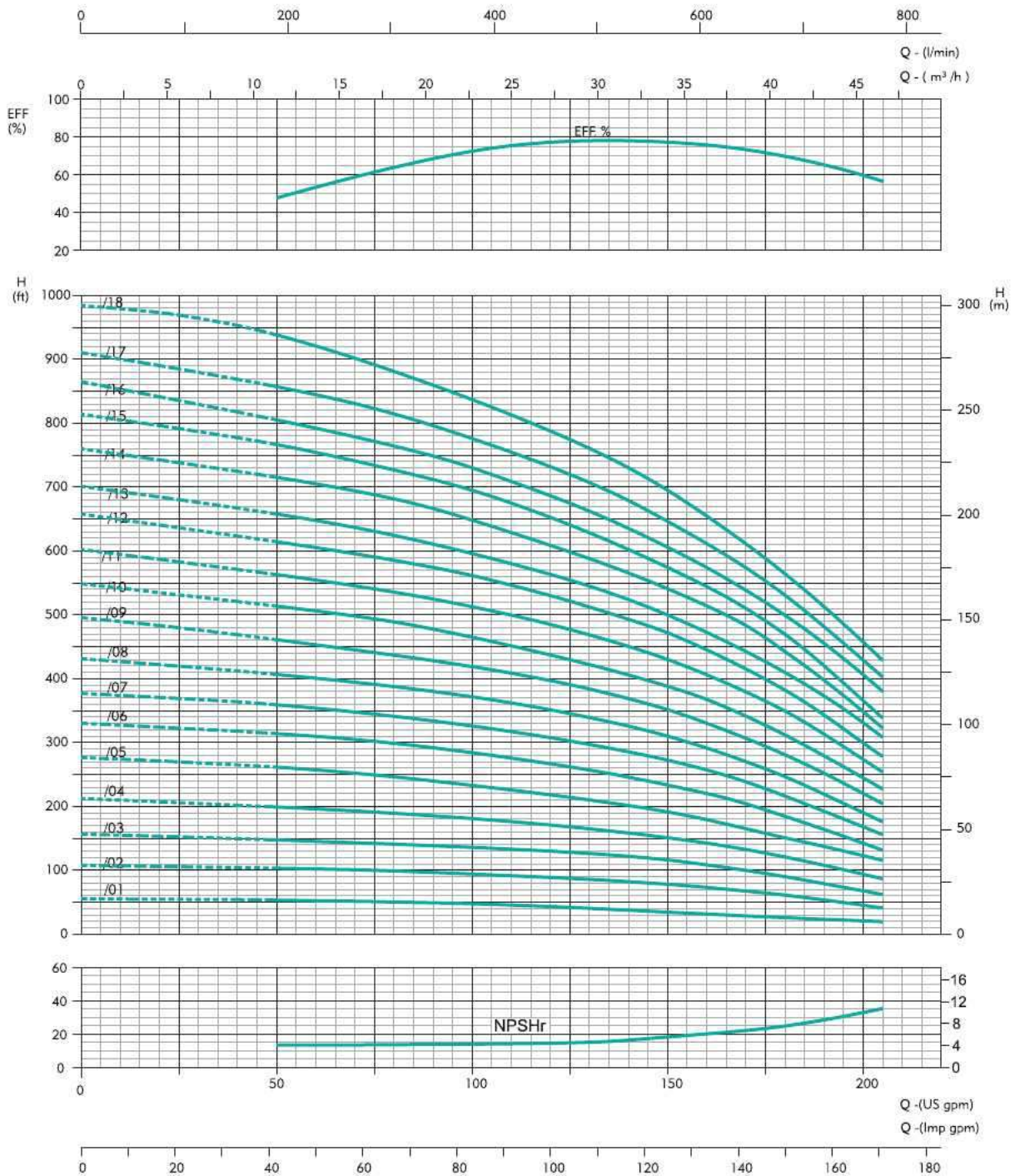
# PERFORMANCE CURVES

## TS / TN SERIES > 6"

Model : **TS 150 - 150**

Outlet Size : **3" NPT**

**3450 rpm**



Curve tolerance according to ISO : 9906, Annex - A.

## PERFORMANCE DATA

### TS / TN SERIES > 6"

Model : **TS 150 - 150**

Outlet Size : **3" NPT**

**3450 rpm**

Pump Model	Power		m <sup>3</sup> /h	0	11.36	22.71	34.07	45
	HP	kW	USGPM	0	50	100	150	200
TS150-150/01-4	2	1.5	TOTAL DYNAMIC HEAD IN FEET	55	50	48	39	25
TS150-150/02	4	3		107	103	98	80	45
TS150-150/03	5.5/6	4/4.5		158	146	137	118	59
TS150-150/04	7.5	5.5		213	200	181	150	95
TS150-150/05	10	7.5		277	263	232	191	125
TS150-150/06	12.5/15	9.3/11		330	313	285	234	145
TS150-150/07	12.5/15	9.3/11		375	360	326	273	172
TS150-150/08	15	11		430	406	373	311	190
TS150-150/09	17.5/20	13/15		497	460	420	352	223
TS150-150/10	20	15		550	515	465	390	250
TS150-150/11	20	15		600	565	510	430	272
TS150-150/12	25	18.5		655	615	560	470	300
TS150-150/13	25	18.5		700	670	605	510	334
TS150-150/14	25	18.5		760	715	650	540	350
TS150-150/15	30	22		813	765	695	575	364
TS150-150/16	30	22		862	805	730	605	406
TS150-150/17	30	22		912	855	775	645	432
TS150-150/18	35/40	26/30		982	940	836	697	453

\* For AISI 316 replace TS with TN : Performance Data remains same.

### Nett Weights & Dimensions

Pump Model	Dimensions in Inches			Nett Weight (lbs)
	D1	D2	H	
TS150-150/01-4	5.6	5.8	15	18
TS150-150/02	5.6	5.8	19	20.1
TS150-150/03	5.6	5.8	22.8	24.4
TS150-150/04	5.6	5.8	26.5	28.7
TS150-150/05	5.6	5.8	30.3	33
TS150-150/06	5.6	5.8	34.1	37.3
TS150-150/07	5.6	5.8	37.9	41.6
TS150-150/08	5.6	5.8	41.7	45.9
TS150-150/09	5.6	5.8	45.4	50.2
TS150-150/10	5.6	5.8	49.2	54.5
TS150-150/11	5.6	5.8	53	58.8
TS150-150/12	5.6	5.8	56.8	63.1
TS150-150/13	5.6	5.8	60.6	67.4
TS150-150/14	5.6	5.8	64.3	71.7
TS150-150/15	5.6	5.8	68.1	76
TS150-150/16	5.6	5.8	71.9	80.3
TS150-150/17	5.6	5.8	75.7	84.6
TS150-150/18	5.6	5.8	79	93

Pump Height(H) & Weight(lbs) are approximate.

**These pumps can also be supplied with BSP standard discharge outlet on request.**

All performance data is based on rated input. Tolerance in accordance with ISO 9906 Annex-A.



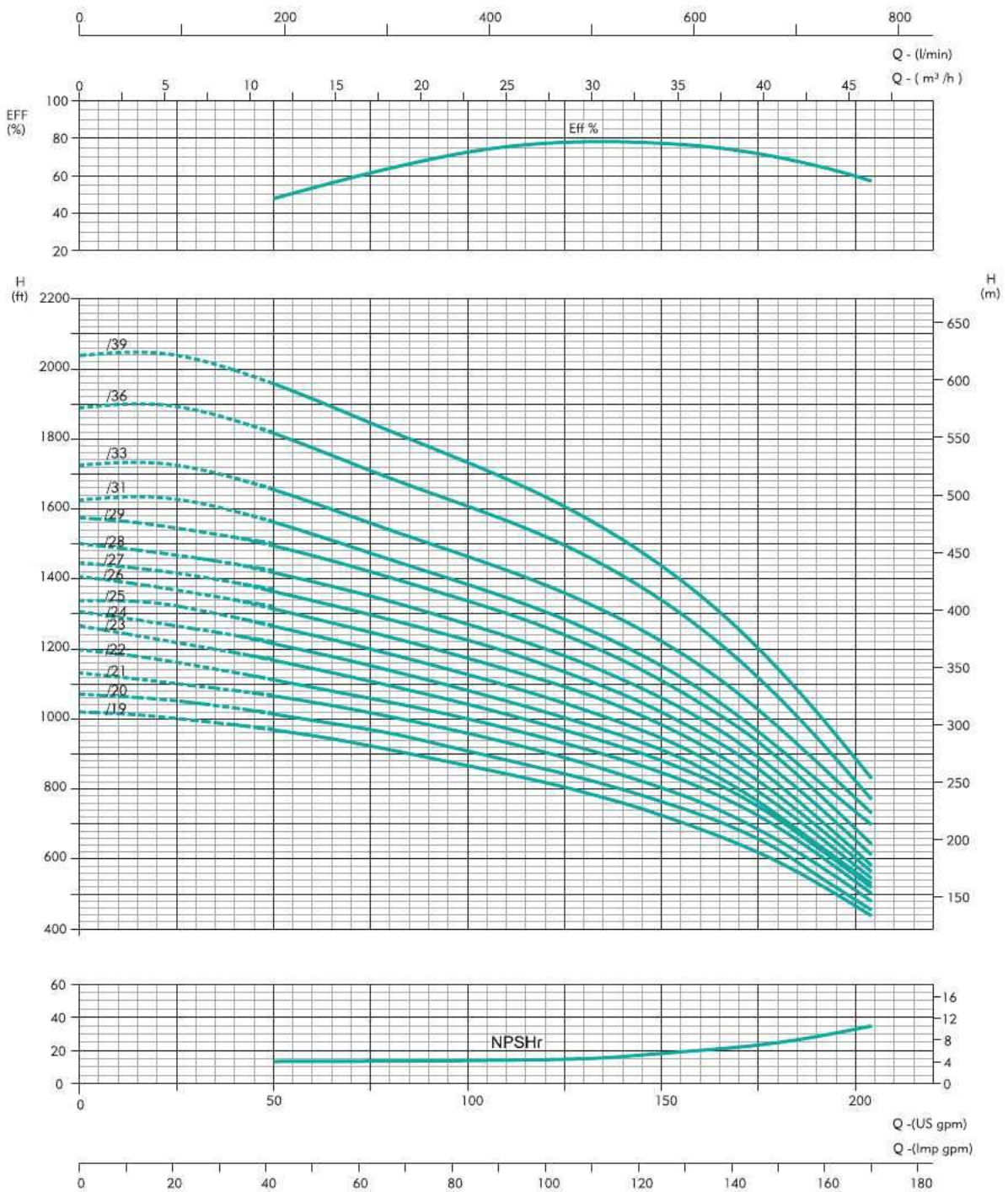
# PERFORMANCE CURVES

## TS / TN SERIES > 6"

Model : **TS 150 - 150**

Outlet Size : **3" NPT**

**3450 rpm**



Curve tolerance according to ISO : 9906, Annex - A.



## PERFORMANCE DATA

### TS / TN SERIES > 6"

Model : **TS 150 - 150**

Outlet Size : **3" NPT**

**3450 rpm**

Pump Model	Power		m <sup>3</sup> /h	0	11.36	22.71	34.07	45
	HP	kW	USGPM	0	50	100	150	200
TS150-150/19	35/40	26/30	TOTAL DYNAMIC HEAD IN FEET	1013	968	870	722	468
TS150-150/20	35/40	26/30		1071	1011	910	764	481
TS150-150/21	40	30		1133	1066	960	801	513
TS150-150/22	40	30		1199	1112	1000	848	540
TS150-150/23	40	30		1268	1168	1043	885	550
TS150-150/24	50	37		1304	1212	1085	912	561
TS150-150/25	50	37		1338	1265	1124	947	583
TS150-150/26	50	37		1403	1315	1176	988	600
TS150-150/27	50	37		1443	1370	1223	1014	621
TS150-150/28	50	37		1500	1417	1275	1069	667
TS150-150/29	60	45		1579	1498	1335	1109	690
TS150-150/31	60	45		1625	1571	1380	1150	725
TS150-150/33	60	45		1725	1657	1471	1222	775
TS150-150/36-8	75	55		1891	1820	1608	1345	825
TS150-150/39-8	75	55		2045	1957	1730	1430	880

\* For AISI 316 replace TS with TN : Performance Data remains same.

### Nett Weights & Dimensions

Pump Model	Dimensions in Inches			Nett Weight (lbs)
	D1	D2	H	
TS150-150/19	5.6	5.8	83.20	93.2
TS150-150/20	5.6	5.8	87	97.5
TS150-150/21	5.6	5.8	90.8	101.8
TS150-150/22	5.6	5.8	94.6	106.1
TS150-150/23	5.6	5.8	98.3	110.4
TS150-150/24	5.6	5.8	102.1	114.7
TS150-150/25	5.6	5.8	105.9	119
TS150-150/26	5.6	5.8	109.7	123.3
TS150-150/27	5.6	5.8	113.5	127.6
TS150-150/28	5.6	5.8	117.2	131.9
TS150-150/29	5.6	5.8	121	136
TS150-150/31	5.6	5.8	129	144
TS150-150/33	5.6	5.8	136	153
TS150-150/36-8	5.6	5.8	147	166
TS150-150/39-8	5.6	5.8	159	179

Pump Height(H) & Weight(lbs) are approximate.

**These pumps can also be supplied with BSP standard discharge outlet on request.**

All performance data is based on rated input. Tolerance in accordance with ISO 9906 Annex-A.



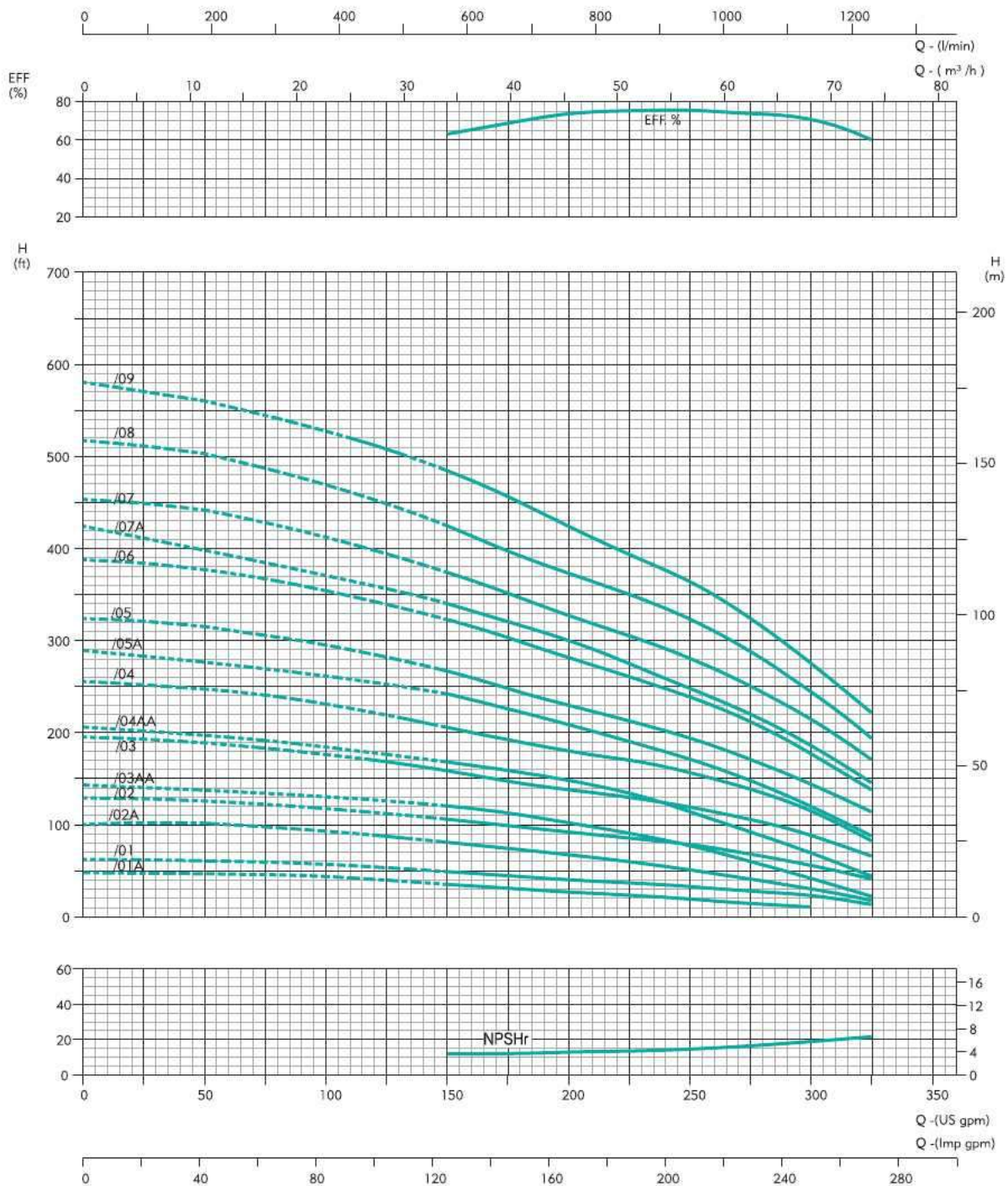
# PERFORMANCE CURVES

## TS / TN SERIES > 6"

Model : **TS 150 - 240**

Outlet Size : **3" NPT**

**3450 rpm**



Curve tolerance according to ISO : 9906, Annex - A.

## PERFORMANCE DATA

### TS / TN SERIES > 6"

Model : **TS 150 - 240**

Outlet Size : **3" NPT**

**3450 rpm**

Pump Model	Power		m <sup>3</sup> /h	0	34	45.42	68.13	73.81
	HP	kW	USGPM	0	150	200	300	325
TS150-240/01A-4	3	2.2	TOTAL DYNAMIC HEAD IN FEET	49	44	28	10	
TS150-240/01	4	3		53	50	40	24	15
TS150-240/02A	5.5/6	4/4.5		100	79	69	30	18
TS150-240/02	7.5	5.5		125	104	90	55	40
TS150-240/03AA	7.5	5.5		143	120	102	42	22
TS150-240/03	10	7.5		197	160	140	90	54
TS150-240/04AA	10	7.5		206	168	146	70	46
TS150-240/04	12.5/15	9.3/11		255	207	181	115	82
TS150-240/05A	15	11		289	243	210	120	90
TS150-240/05	17.5/20	13/15		323	265	232	144	114
TS150-240/06	20	15		390	324	280	180	138
TS150-240/07A	20	15		424	340	301	186	147
TS150-240/07	25	18.5		450	370	328	215	171
TS150-240/08	25	18.5		520	425	370	245	194
TS150-240/09	30	22		583	488	423	275	221

\* For AISI 316 replace TS with TN : Performance Data remains same.

### Nett Weights & Dimensions

Pump Model	Dimensions in Inches			Nett Weight (lbs)
	D1	D2	H	
TS150-240/01A-4	5.6	5.8	16	18.1
TS150-240/01	5.6	5.8	16	18.1
TS150-240/02A	5.6	5.8	20	21.8
TS150-240/02	5.6	5.8	20	21.8
TS150-240/03AA	5.6	5.8	25	28.3
TS150-240/03	5.6	5.8	25	28.3
TS150-240/04AA	5.6	5.8	29	31.6
TS150-240/04	5.6	5.8	29	31.6
TS150-240/05A	5.6	5.8	34	37.1
TS150-240/05	5.6	5.8	34	37.1
TS150-240/06	5.6	5.8	38	43.2
TS150-240/07A	5.6	5.8	43	47.2
TS150-240/07	5.6	5.8	43	47.2
TS150-240/08	5.6	5.8	47	53.3
TS150-240/09	5.6	5.8	51	57.5



Pump Height(H) & Weight(lbs) are approximate.

**These pumps can also be supplied with BSP standard discharge outlet on request.**

All performance data is based on rated input. Tolerance in accordance with ISO 9906 Annex-A.

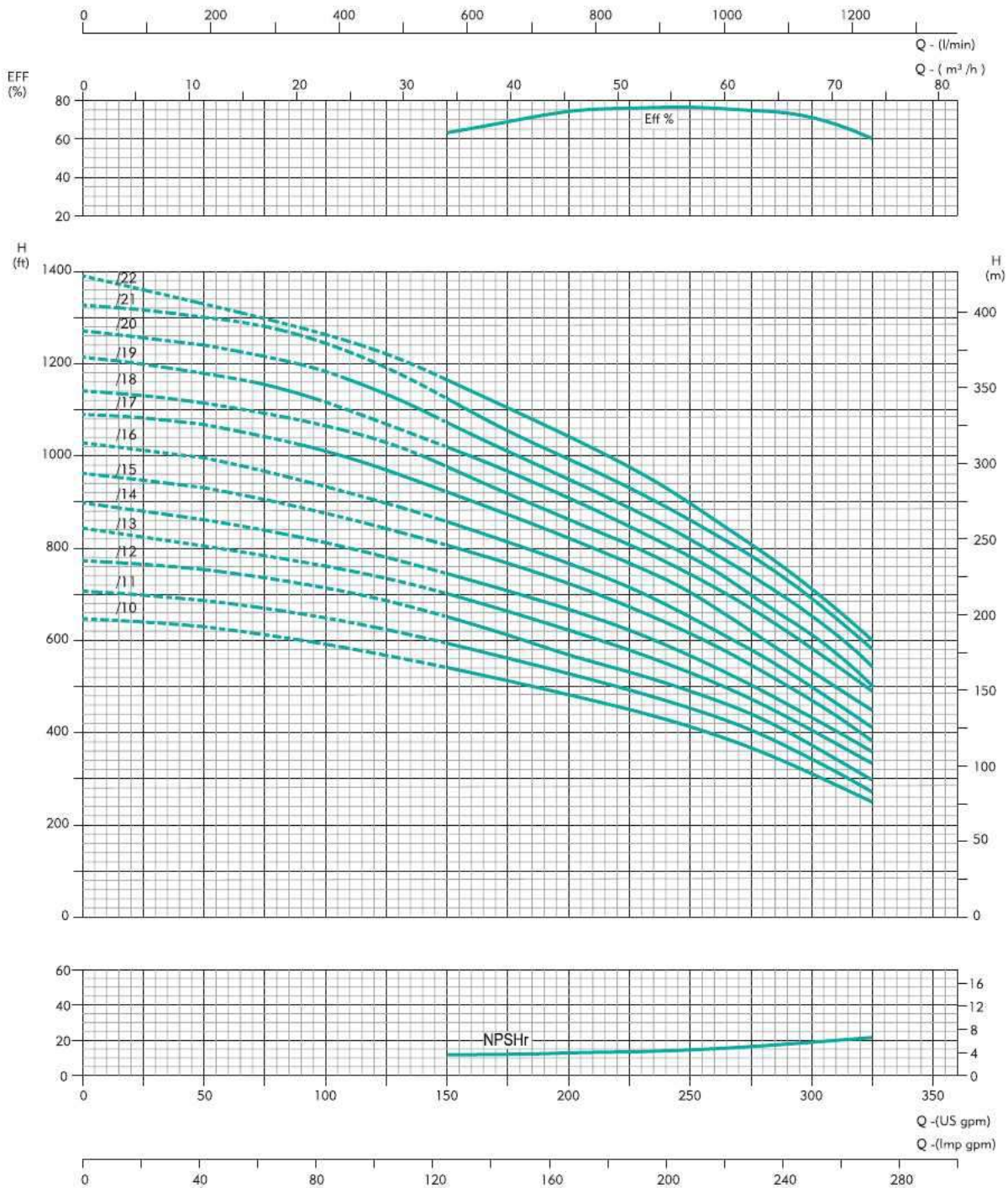
# PERFORMANCE CURVES

## TS / TN SERIES > 6"

Model : **TS 150 - 240**

Outlet Size : **3" NPT**

**3450 rpm**



Curve tolerance according to ISO : 9906, Annex - A.

## PERFORMANCE DATA

### TS / TN SERIES > 6"

Model : **TS 150 - 240**

Outlet Size : **3" NPT**

**3450 rpm**

Pump Model	Power		m <sup>3</sup> /h	0	34	45.42	68.13	73.81
	HP	kW	USGPM	0	150	200	300	325
TS150-240/10	30	22	TOTAL DYNAMIC HEAD IN FEET	641	540	475	310	249
TS150-240/11	35/40	26/30		704	594	523	340	269
TS150-240/12	40	30		775	650	573	328	296
TS150-240/13	40	30		843	700	625	404	325
TS150-240/14	50	37		903	746	668	440	356
TS150-240/15	50	37		960	805	722	473	378
TS150-240/16	50	37		1024	861	770	506	410
TS150-240/17	50	37		1096	925	823	540	453
TS150-240/18	60	45		1140	978	866	582	466
TS150-240/19	60	45		1210	1020	909	610	523
TS150-240/20	60	45		1279	1076	946	655	545
TS150-240/21-8	75	55		1324	1122	998	690	585
TS150-240/22-8	75	55		1390	1164	1044	715	600

\* For AISI 316 replace TS with TN : Performance Data remains same.

### Nett Weights & Dimensions

Pump Model	Dimensions in Inches			Nett Weight (lbs)
	D1	D2	H	
TS150-240/10	5.6	5.8	55.9	63
TS150-240/11	5.6	5.8	60.4	67
TS150-240/12	5.6	5.8	64.8	73
TS150-240/13	5.6	5.8	69.3	77
TS150-240/14	5.6	5.8	74	83
TS150-240/15	5.6	5.8	78.10	87
TS150-240/16	5.6	5.8	83.10	91
TS150-240/17	5.6	5.8	87	97
TS150-240/18	5.6	5.8	91	101
TS150-240/19	5.6	5.8	95.9	107
TS150-240/20	5.6	5.8	100	111
TS150-240/21-8	5.6	5.8	104.8	117
TS150-240/22-8	5.6	5.8	110.2	123



Pump Height(H) & Weight(lbs) are approximate.

**These pumps can also be supplied with BSP standard discharge outlet on request.**

All performance data is based on rated input. Tolerance in accordance with ISO 9906 Annex-A.

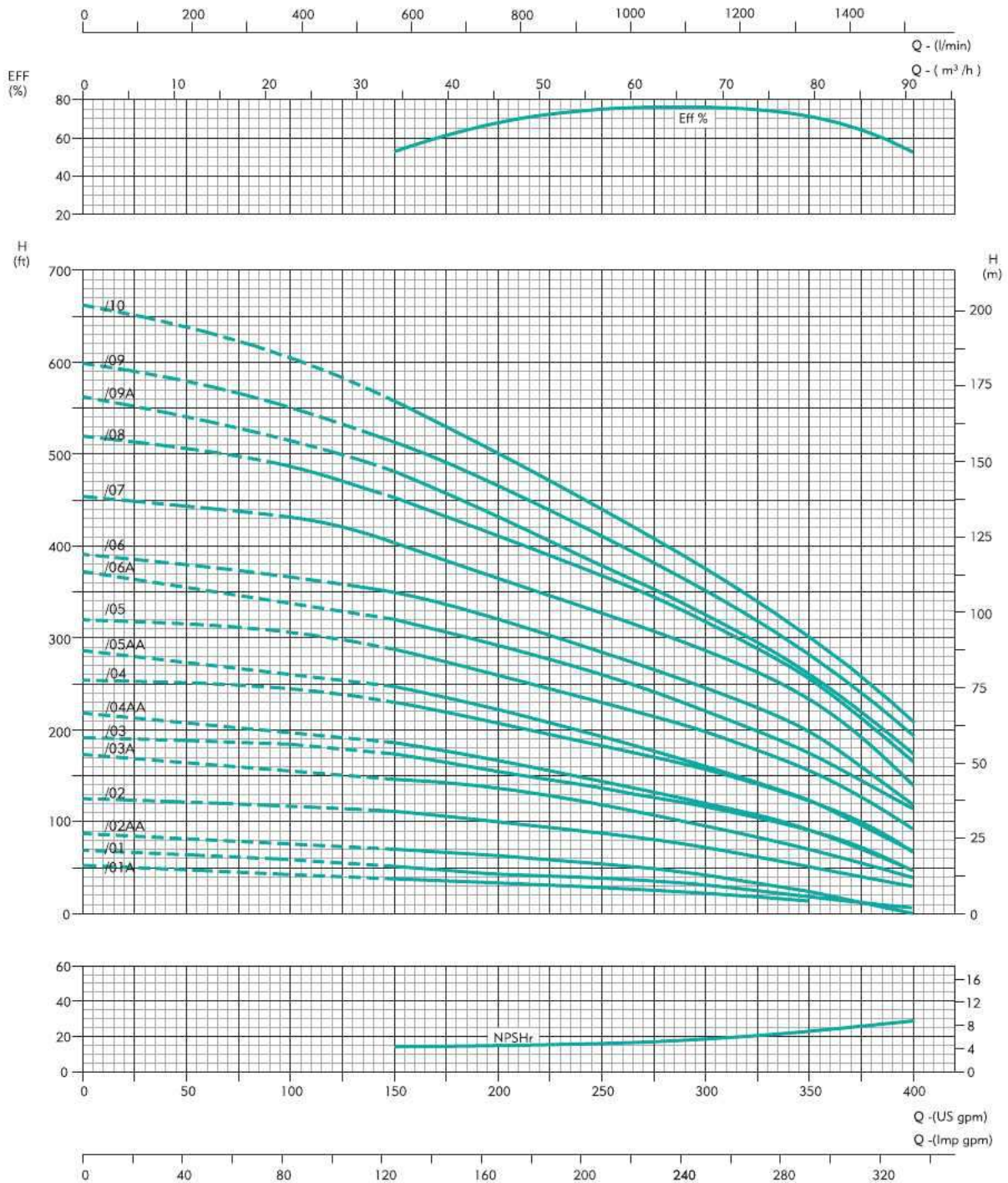
# PERFORMANCE CURVES

## TS / TN SERIES > 6"

Model : **TS 150 - 300**

Outlet Size : **3" / 4" NPT**

**3450 rpm**



Curve tolerance according to ISO : 9906, Annex - A.

## PERFORMANCE DATA

### TS / TN SERIES > 6"

Model : **TS 150 - 300**

Outlet Size : **3" / 4" NPT**

**3450 rpm**

Pump Model	Power		m <sup>3</sup> /h USGPM	0	34	45.42	68.13	90.84
	HP	kW		0	150	200	300	400
TS150-300/01A-4	3	2.2	TOTAL DYNAMIC HEAD IN FEET	51	37	35	21	
TS150-300/01	5	3.7		71	50	43	32	8
TS150-300/02AA	5.5	4		87	70	63	42	
TS150-300/02	7.5	5.5		123	111	100	73	30
TS150-300/03A	10	7.5		173	146	138	95	39
TS150-300/03	12.5/15	9.3/11		190	172	154	119	48
TS150-300/04AA	15	11		218	186	165	121	47
TS150-300/04	15	11		251	231	209	158	70
TS150-300/05AA	20	15		286	247	221	161	68
TS150-300/05	17.5/20	13/15		323	285	261	199	95
TS150-300/06A	20	15		372	320	291	220	114
TS150-300/06	20	15		389	350	321	248	120
TS150-300/07	25	18.5		451	402	365	282	140
TS150-300/08	30	22		521	452	414	322	169
TS150-300/09A	30	22		562	481	427	325	174
TS150-300/09	35/40	26/30		599	517	467	350	197
TS150-300/10	35/40	26/30	663	562	500	376	212	

\* For AISI 316 replace TS with TN : Performance Data remains same.

### Nett Weights & Dimensions

Pump Model	Dimensions in Inches			Nett Weight (lbs)
	D1	D2	H	
TS150-300/01A-4	5.8	6.0	16	22
TS150-300/01	5.8	6.0	16	22
TS150-300/02AA	5.8	6.0	20	26
TS150-300/02	5.8	6.0	20	26
TS150-300/03A	5.8	6.0	25	31
TS150-300/03	5.8	6.0	25	31
TS150-300/04AA	5.8	6.0	29	35
TS150-300/04	5.8	6.0	29	35
TS150-300/05AA	5.8	6.0	34	40
TS150-300/05	5.8	6.0	34	40
TS150-300/06A	5.8	6.0	38	44
TS150-300/06	5.8	6.0	38	44
TS150-300/07	5.8	6.0	43	49
TS150-300/08	5.8	6.0	47	53
TS150-300/09A	5.8	6.0	51	57
TS150-300/09	5.8	6.0	51	57
TS150-300/10	5.8	6.0	56	62

Pump Height(H) & Weight(lbs) are approximate.

**These pumps can also be supplied with BSP standard discharge outlet on request.**

All performance data is based on rated input. Tolerance in accordance with ISO 9906 Annex-A.



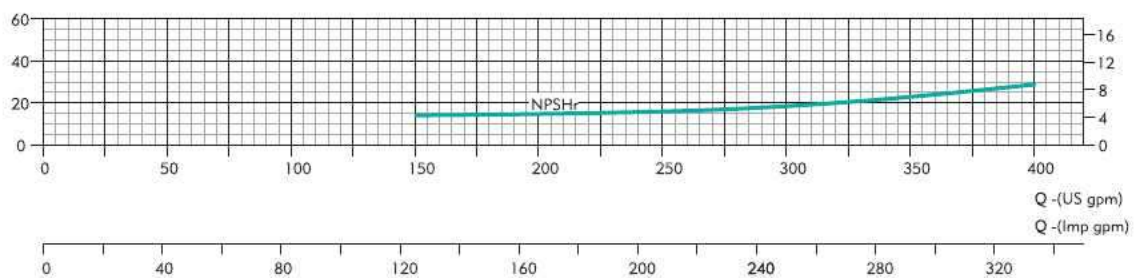
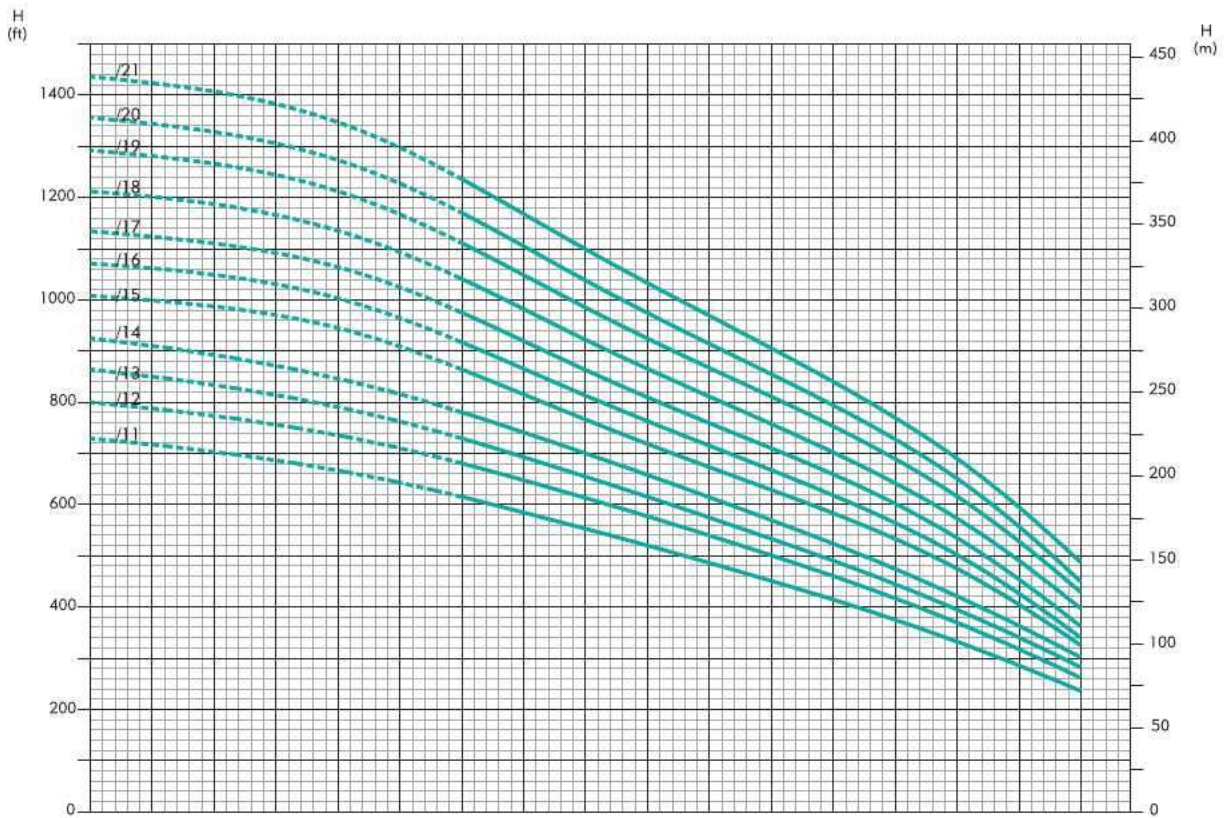
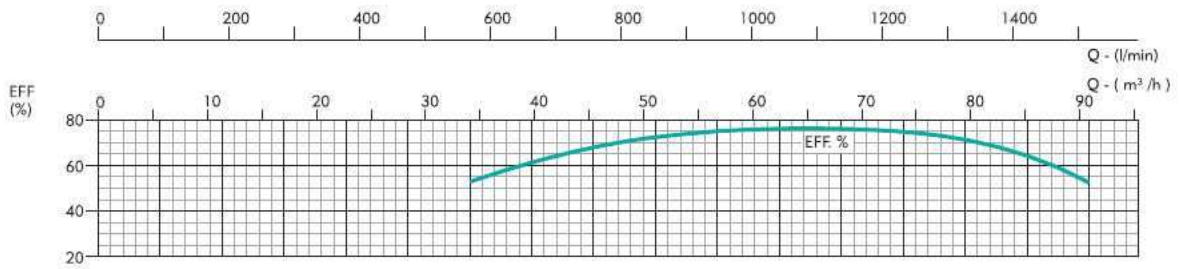
# PERFORMANCE CURVES

## TS / TN SERIES > 6"

Model : **TS 150 - 300**

Outlet Size : **3" / 4" NPT**

**3450 rpm**



Curve tolerance according to ISO : 9906, Annex - A.



## PERFORMANCE DATA

### TS / TN SERIES > 6"

Model : **TS 150 - 300**

Outlet Size : **3" / 4" NPT**

**3450 rpm**

Pump Model	Power		m <sup>3</sup> /h USGPM	0	34	45.42	68.13	90.84
	HP	kW		0	150	200	300	400
TS150-300/11	40	30	TOTAL DYNAMIC HEAD IN FEET	729	617	551	414	236
TS150-300/12	50	37		800	680	615	416	264
TS150-300/13	50	37		863	730	653	488	279
TS150-300/14	60	45		930	778	700	525	300
TS150-300/15	60	45		1004	861	764	584	329
TS150-300/16	60	45		1071	919	816	618	343
TS150-300/17	60	45		1136	976	865	660	363
TS150-300/18-8	75	55		1212	1041	925	700	399
TS150-300/19-8	75	55		1293	1113	980	755	433
TS150-300/20-8	75	55		1358	1177	1040	798	448
TS150-300/21-8	85/100	63/75		1439	1244	1100	840	497

\* For AISI 316 replace TS with TN : Performance Data remains same.

### Nett Weights & Dimensions

Pump Model	Dimensions in Inches			Nett Weight (lbs)
	D1	D2	H	
TS150-300/11	5.8	6.0	60	66
TS150-300/12	5.8	6.0	65	71
TS150-300/13	5.8	6.0	69	75
TS150-300/14	5.8	6.0	74	79
TS150-300/15	5.8	6.0	78	84
TS150-300/16	5.8	6.0	83	88
TS150-300/17	5.8	6.0	87	93
TS150-300/18-8	5.8	6.0	91	97
TS150-300/19-8	5.8	6.0	96	101
TS150-300/20-8	5.8	6.0	100	106
TS150-300/21-8	5.8	6.0	105	116



Pump Height(H) & Weight(lbs) are approximate.

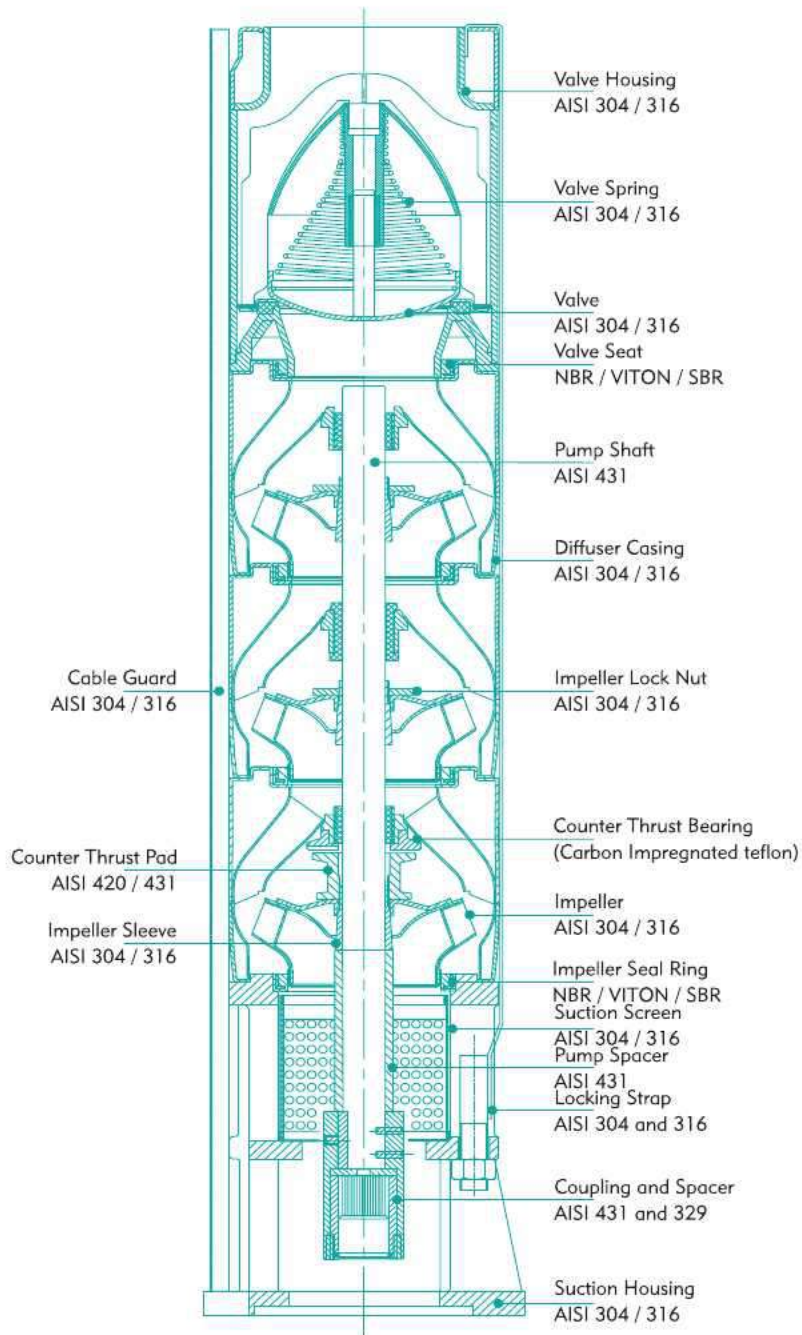
**These pumps can also be supplied with BSP standard discharge outlet on request.**

All performance data is based on rated input. Tolerance in accordance with ISO 9906 Annex-A.

# CONSTRUCTIONAL DATA

**390 / 475 gpm**

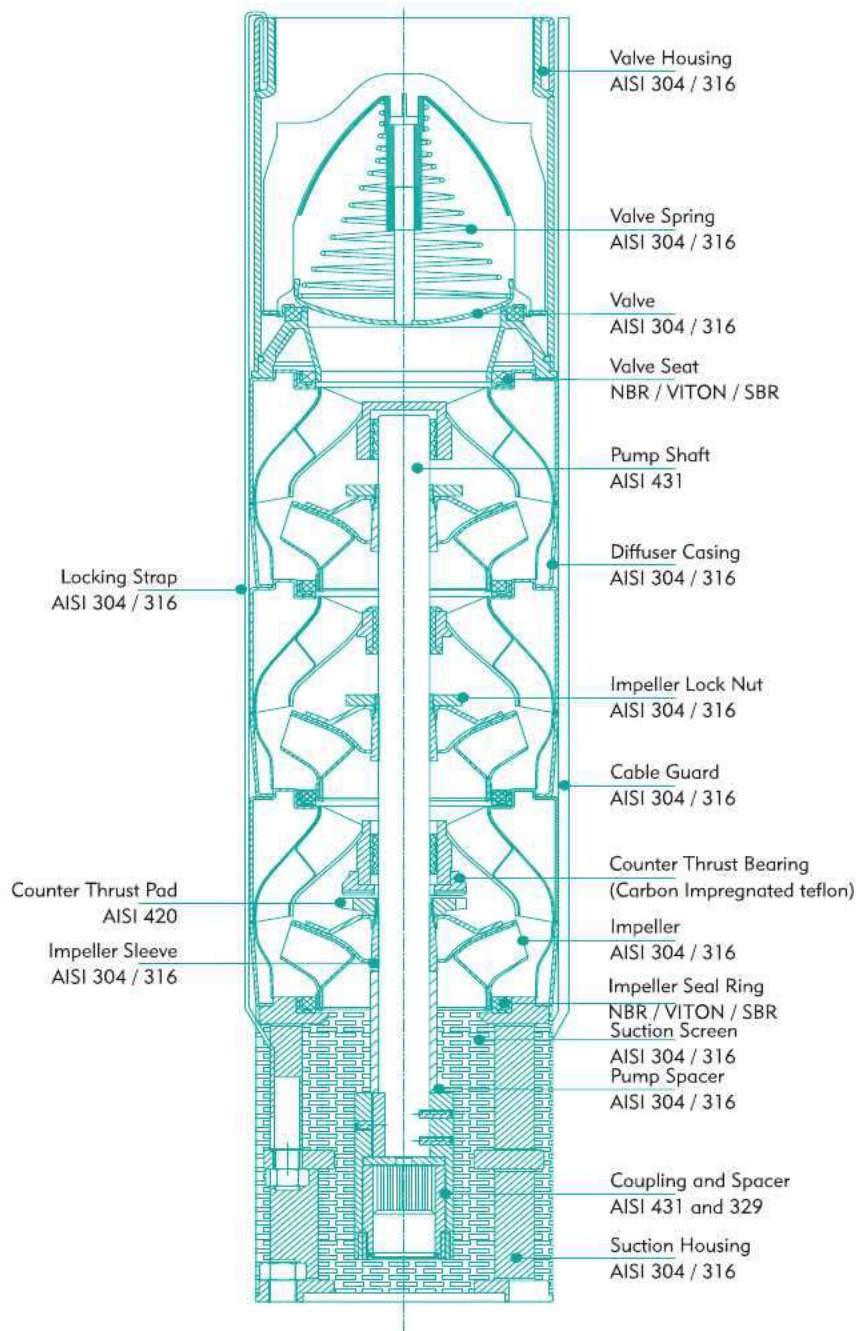
**8" > TS Series > Version TS / TN > Constructional Data of Semi - Axial Flow Pump**



## CONSTRUCTIONAL DATA

**625, 800 & A75 gpm**

**10" > TS Series > Version TS / TN > Constructional Data of Semi - Axial Flow Pump**



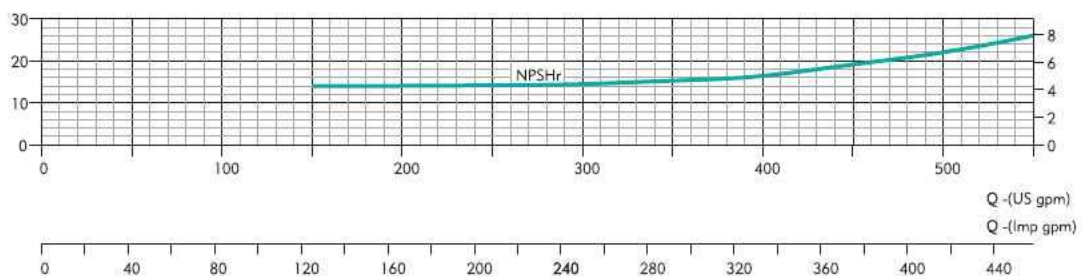
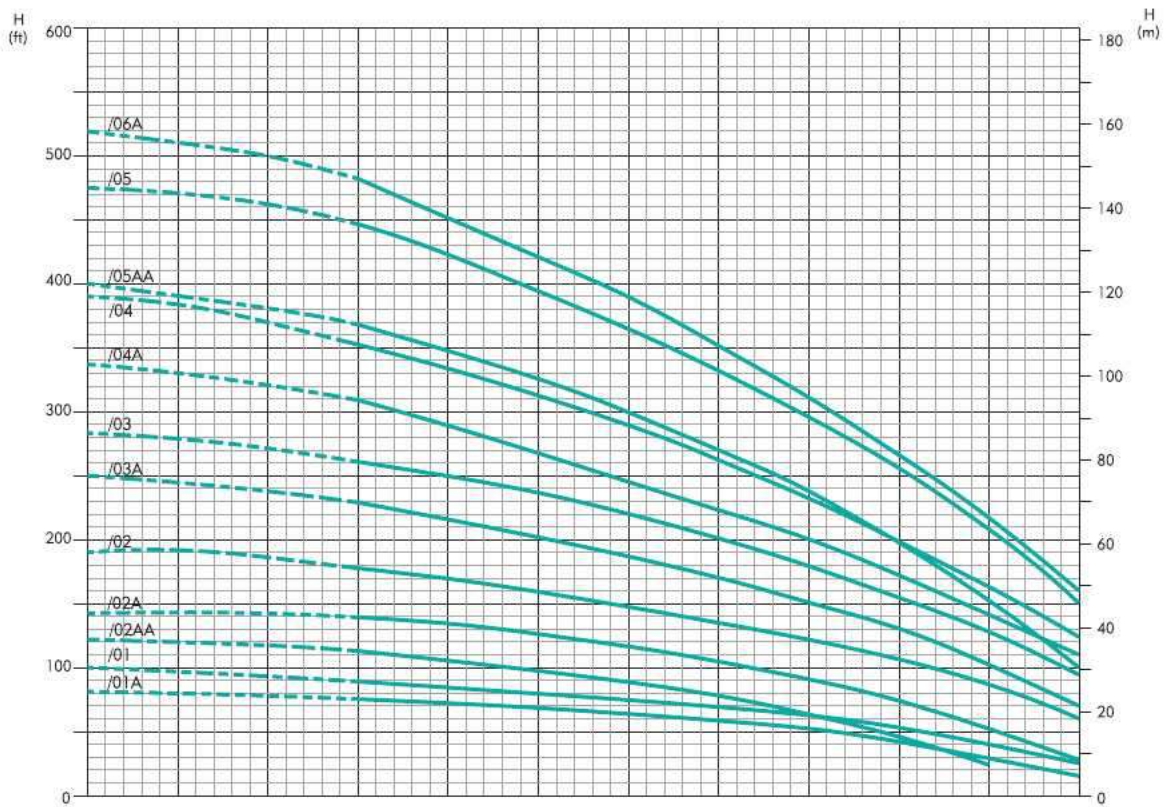
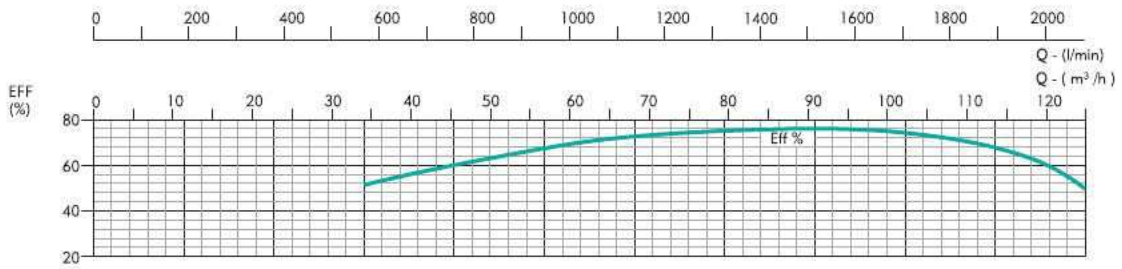
# PERFORMANCE CURVES

## TS / TN SERIES > 8"

Model : **TS 200 - 390**

Outlet Size : **5" NPT**

**3450 rpm**



Curve tolerance according to ISO : 9906, Annex - A.

## PERFORMANCE DATA

### TS / TN SERIES > 8"

Model : **TS 200 - 390**

Outlet Size : **5" NPT**

**3450 rpm**

Pump Model	Power		m <sup>3</sup> /h USGPM	0	34	57	68.13	90.84	113.55
	HP	kW		0	150	250	300	400	500
TS200-390/01A-6	7.5	5.5	TOTAL DYNAMIC HEAD IN FEET	79	76	70	64	52	30
TS200-390/01-	7.5	5.5		100	87	79	75	65	38
TS200-390/02AA-6	10	7.5		122	113	97	87	63	24
TS200-390/02A-6	15	11		142	139	126	116	89	51
TS200-390/02-6	15	11		189	178	160	148	122	52
TS200-390/03A-6	20	15		250	229	201	182	150	100
TS200-390/03-6	25	18.5		285	260	238	219	177	127
TS200-390/04A-6	25	18.5		337	309	266	245	200	140
TS200-390/04-6	30	22		390	350	312	289	230	162
TS200-390/05AA-6	30	22		400	368	328	300	240	152
TS200-390/05-6	40	30		474	448	398	366	298	210
TS200-390/06A-6	40	30		519	482	420	390	313	215

\* For AISI 316 replace TS with TN : Performance Data remains same.

### Nett Weights & Dimensions

Pump Model	Dimensions in Inches		Nett Weight (lbs)
	D	H	
TS200-390/01A-6	7.4	22	47
TS200-390/01-6	7.4	22	47
TS200-390/02AA-6	7.4	27	51
TS200-390/02A-6	7.4	27	55
TS200-390/02-6	7.4	27	55
TS200-390/03A-6	7.4	32	61
TS200-390/03-6	7.4	32	64
TS200-390/04A-6	7.4	37	72
TS200-390/04-6	7.4	37	72
TS200-390/05AA-6	7.4	42	81
TS200-390/05-6	7.4	42	81
TS200-390/06A-6	7.4	47	90



Pump Height(H) & Weight(lbs) are approximate.

**These pumps can also be supplied with BSP standard discharge outlet on request.**

All performance data is based on rated input. Tolerance in accordance with ISO 9906 Annex-A.

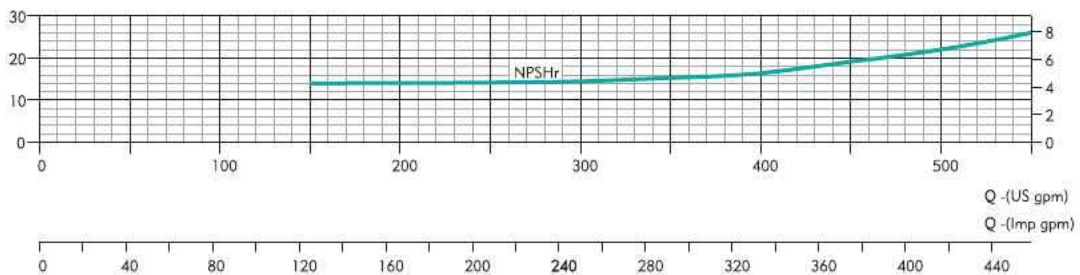
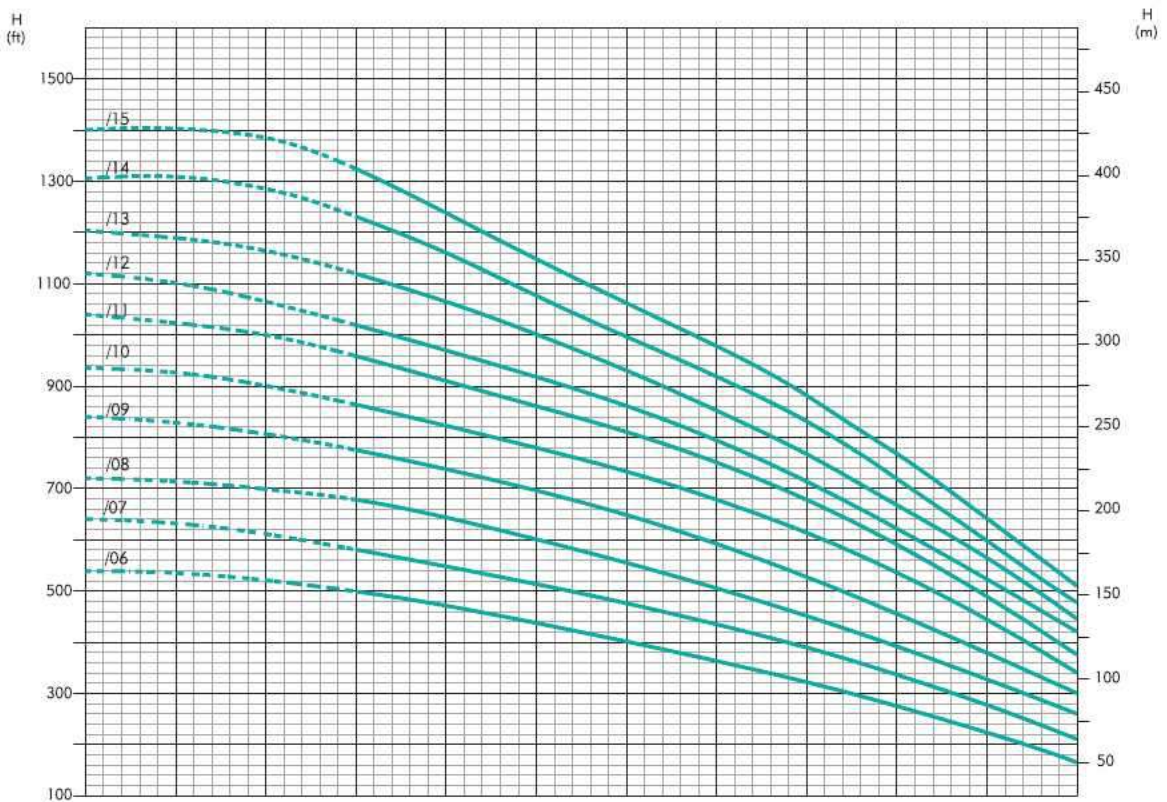
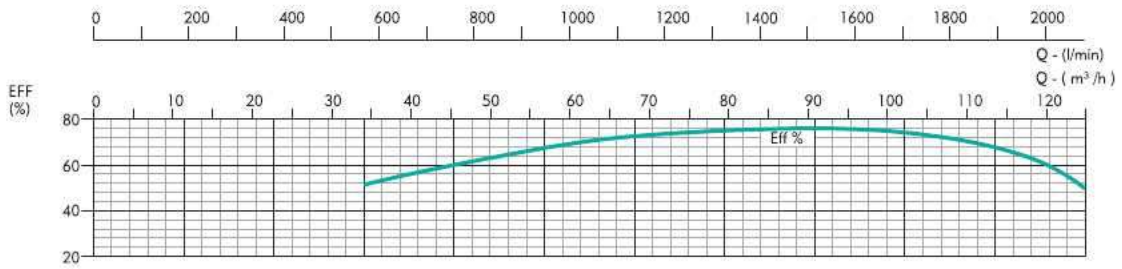
# PERFORMANCE CURVES

## TS / TN SERIES > 8"

Model : **TS 200 - 390**

Outlet Size : **5" NPT**

**3450 rpm**



Curve tolerance according to ISO : 9906, Annex - A.

## PERFORMANCE DATA

### TS / TN SERIES > 8"

Model : **TS 200 - 390**

Outlet Size : **5" NPT**

**3450 rpm**

Pump Model	Power		m <sup>3</sup> /h USGPM	0	34	57	68.13	90.84	113.55
	HP	kW		0	150	250	300	400	500
TS200-390/06-6	50	37	TOTAL DYNAMIC HEAD IN FEET	540	500	440	400	318	220
TS200-390/07-6	60	45		638	585	517	475	396	276
TS200-390/08-6	60	45		716	683	600	555	450	325
TS200-390/09	75	55		844	776	699	648	523	379
TS200-390/10	75	55		939	868	779	737	612	448
TS200-390/11	85/100	63/75		1041	960	862	810	686	497
TS200-390/12	100	75		1124	1022	918	860	714	525
TS200-390/13	100	75		1202	1120	1000	930	772	560
TS200-390/14	125	93		1303	1225	1075	999	835	600
TS200-390/15	125	93		1400	1320	1150	1060	880	648

\* For AISI 316 replace TS with TN : Performance Data remains same.

### Nett Weights & Dimensions

Pump Model	Dimensions in Inches		Nett Weight (lbs)
	D	H	
TS200-390/06-6	7.4	47	90
TS200-390/07-6	7.4	52	98
TS200-390/08-6	7.4	57	107
TS200-390/09	7.4	62	116
TS200-390/10	7.4	67	125
TS200-390/11	7.4	73	133
TS200-390/12	7.4	78	142
TS200-390/13	7.4	83	151
TS200-390/14	7.4	88	159
TS200-390/15	7.4	93	168



Pump Height(H) & Weight(lbs) are approximate.

**These pumps can also be supplied with BSP standard discharge outlet on request.**

All performance data is based on rated input. Tolerance in accordance with ISO 9906 Annex-A.

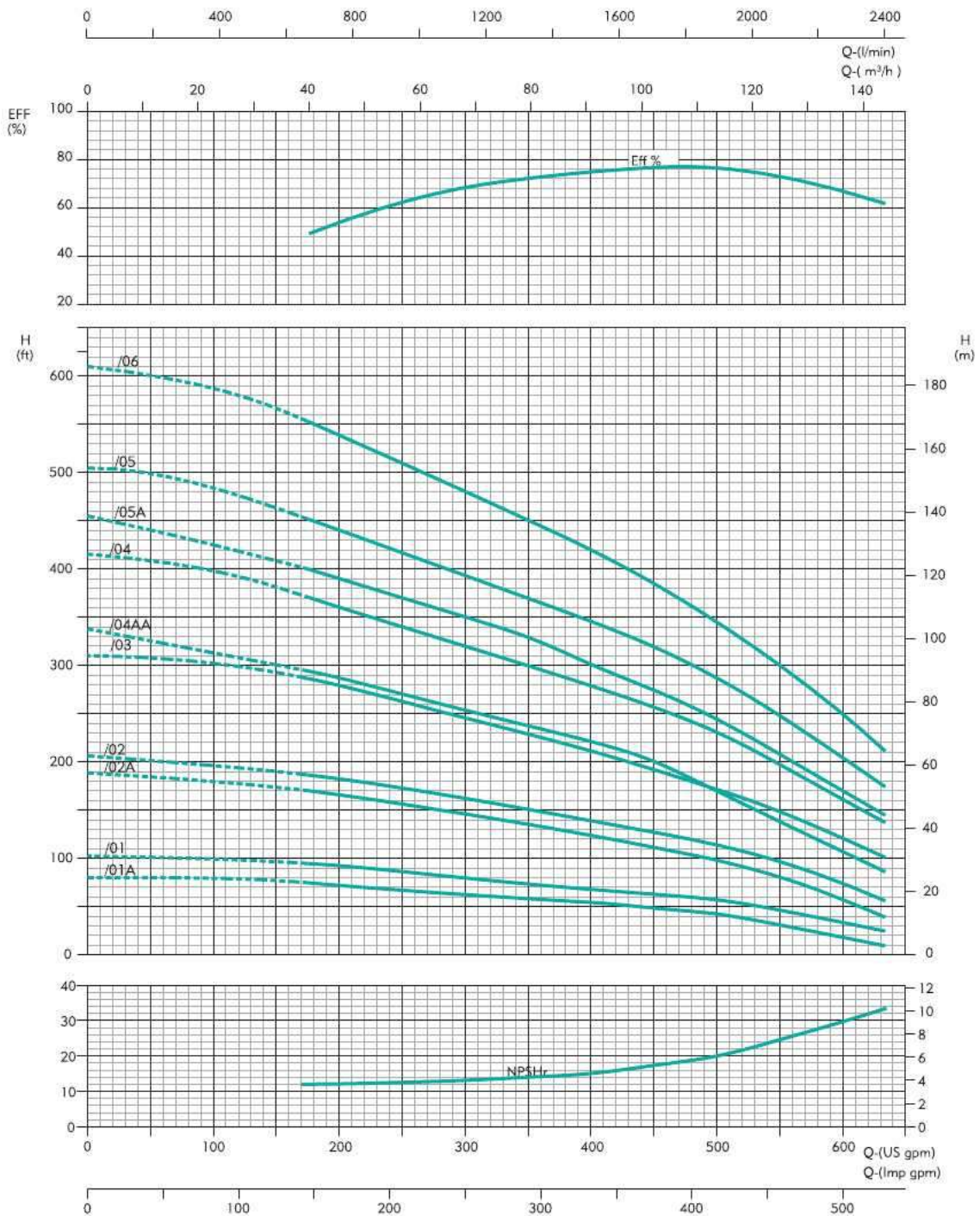
# PERFORMANCE CURVES

## TS / TN SERIES > 8"

Model : **TS 200 - 475**

Outlet Size : **5" NPT**

**3450 rpm**



Curve tolerance according to ISO : 9906, Annex - A.



## PERFORMANCE DATA

### TS / TN SERIES > 8"

Model : **TS 200 - 475**

Outlet Size : **5" NPT**

**3450 rpm**

Pump Model	Power		m <sup>3</sup> /h	0	45.42	68.13	90.84	113.55	136
	HP	kW	USGPM	0	200	300	400	500	600
TS200-475/01A-6	7.5	5.5	TOTAL DYNAMIC HEAD IN FEET	78	74	63	54	40	20
TS200-475/01-6	10	7.5		102	90	78	73	59	34
TS200-475/02A-6	17.5/20	13/15		188	167	148	128	99	61
TS200-475/02-6	17.5/20	13/15		207	179	163	139	114	75
TS200-475/03-6	30	22		310	279	248	212	121	122
TS200-475/04AA-6	30	22		338	288	252	222	169	107
TS200-475/04-6	40	30		416	361	373	280	227	163
TS200-475/05A-6	40	30		455	392	330	300	246	170
TS200-475/05-6	50	37		504	440	392	348	289	204
TS200-475/06-6	60	45		610	538	478	422	347	250

\* For AISI 316 replace TS with TN : Performance Data remains same.

### Nett Weights & Dimensions

Pump Model	Dimensions in Inches		Nett Weight (lbs)
	D	H	
TS200-475/01A-6	7.4	24	47
TS200-475/01-6	7.4	24	47
TS200-475/02A-6	7.4	29	55
TS200-475/02-6	7.4	29	55
TS200-475/03-6	7.4	34	64
TS200-475/04AA-6	7.4	40	72
TS200-475/04-6	7.4	40	72
TS200-475/05A-6	7.4	45	81
TS200-475/05-6	7.4	45	81
TS200-475/06-6	7.4	50	89



Pump Height(H) & Weight(lbs) are approximate.

**These pumps can also be supplied with BSP standard discharge outlet on request.**

All performance data is based on rated input. Tolerance in accordance with ISO 9906 Annex-A.

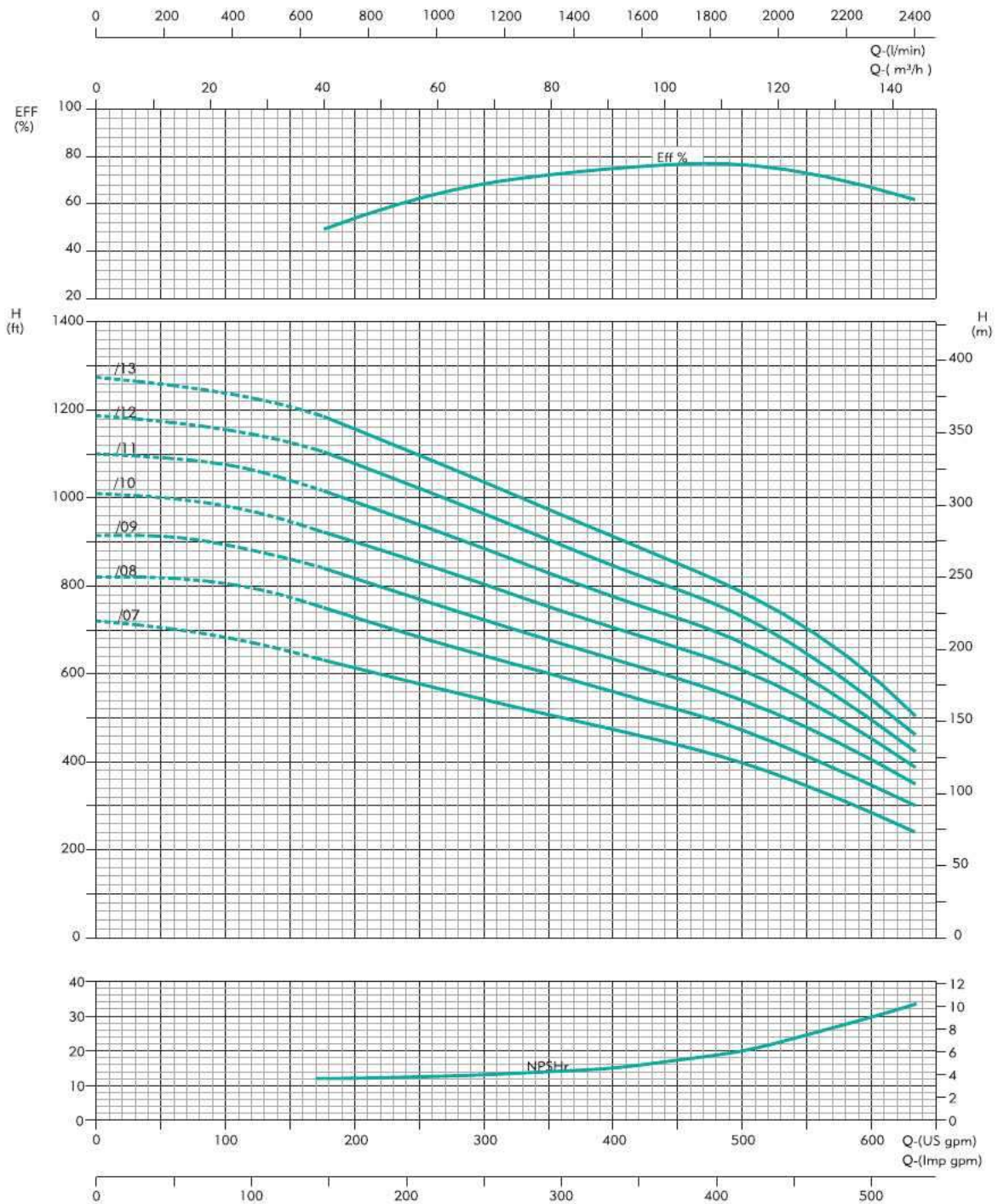
# PERFORMANCE CURVES

## TS / TN SERIES > 8"

Model : **TS 200 - 475**

Outlet Size : **5" NPT**

**3450 rpm**



Curve tolerance according to ISO : 9906, Annex - A.

## PERFORMANCE DATA

### TS / TN SERIES > 8"

Model : **TS 200 - 475**

Outlet Size : **5" NPT**

**3450 rpm**

Pump Model	Power		m <sup>3</sup> /h USGPM	0	45.42	68.13	90.84	113.55	136
	HP	kW		0	200	300	400	500	600
TS200-475/07-6	60	45	TOTAL DYNAMIC HEAD IN FEET	718	613	540	475	398	283
TS200-475/08	75	55		817	726	642	560	477	348
TS200-475/09	100	75		913	816	724	638	541	403
TS200-475/10	100	75		1011	900	804	708	610	450
TS200-475/11	100	75		1100	995	879	776	671	498
TS200-475/12	125	93		1188	1089	964	850	725	547
TS200-475/13	125	93		1278	1169	1039	914	778	598

\* For AISI 316 replace TS with TN : Performance Data remains same.

### Nett Weights & Dimensions

Pump Model	Dimensions in Inches		Nett Weight (lbs)
	D	H	
TS200-475/07-6	7.4	55	98
TS200-475/08	7.4	60	107
TS200-475/09	7.4	65	115
TS200-475/10	7.4	70	124
TS200-475/11	7.4	75	133
TS200-475/12	7.4	80	141
TS200-475/13	7.4	85	150



Pump Height(H) & Weight(lbs) are approximate.

**These pumps can also be supplied with BSP standard discharge outlet on request.**

All performance data is based on rated input. Tolerance in accordance with ISO 9906 Annex-A.

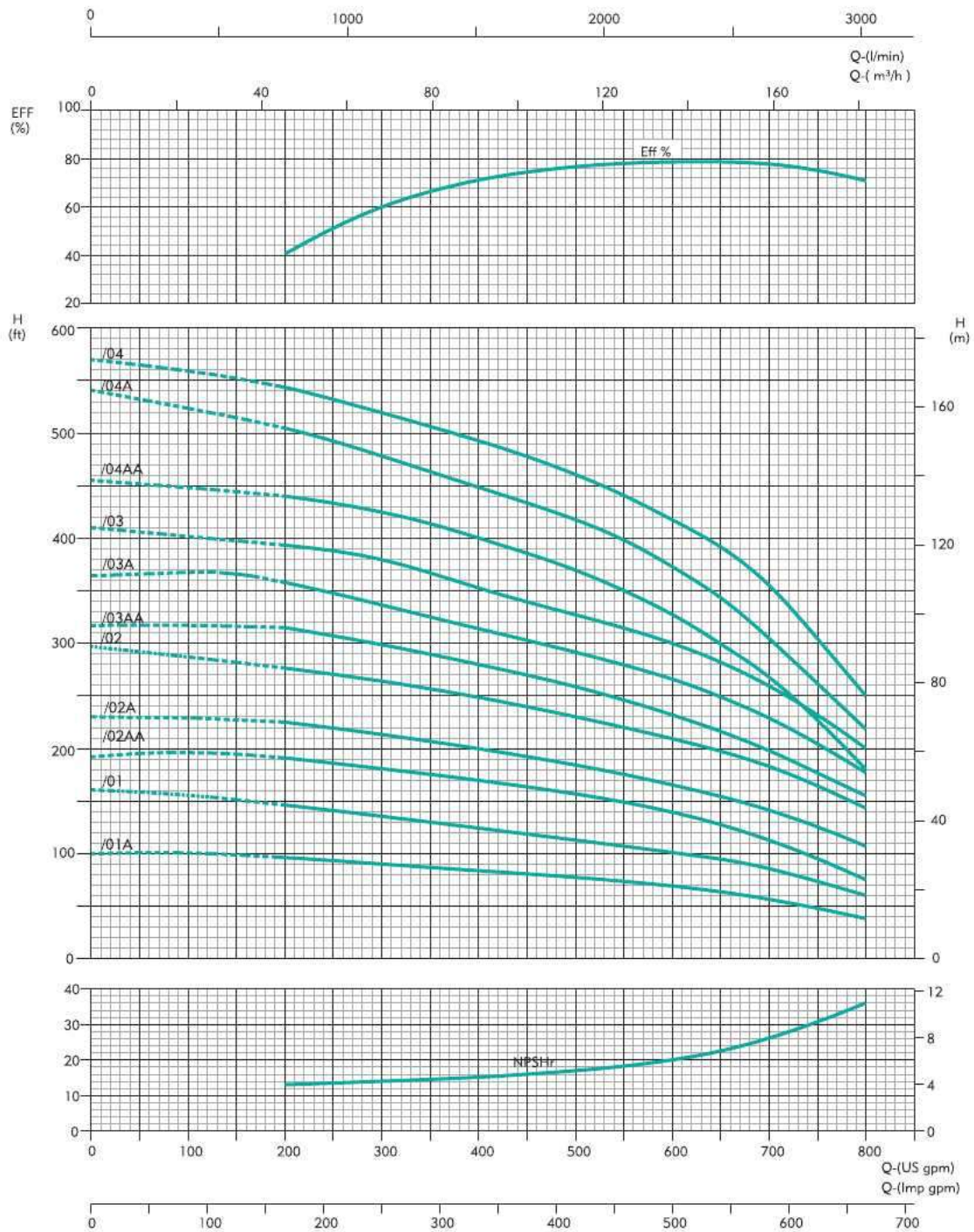
# PERFORMANCE CURVES

## TS / TN SERIES > 10"

Model : **TS 250 - 625**

Outlet Size : **6" NPT**

**3450 rpm**



Curve tolerance according to ISO : 9906, Annex - A.

## PERFORMANCE DATA

### TS / TN SERIES > 10"

Model : **TS 250 - 625**

Outlet Size : **6" NPT**

**3450 rpm**

Pump Model	Power		m <sup>3</sup> /h USGPM	0	45.42	90.84	136	159	181.68
	HP	kW		0	200	400	600	700	800
TS250-625/01A-6	15	11	TOTAL DYNAMIC HEAD IN FEET	100	96	88	70	57	40
TS250-625/01-6	25	18.5		170	146	125	102	86	61
TS250-625/02AA-6	30	22		192	190	169	139	113	75
TS250-625/02A-6	30	22		230	225	198	165	141	107
TS250-625/02-6	40	30		298	275	248	210	182	145
TS250-625/03AA-8	50	37		317	315	280	233	198	155
TS250-625/03A-8	50	37		364	358	314	265	229	178
TS250-625/03-8	60	45		410	394	352	300	260	200
TS250-625/04AA-8	75	55		455	440	400	328	270	185
TS250-625/04A-8	75	55		540	505	449	373	305	220
TS250-625/04-8	85/100	63/75		570	543	493	418	355	250

\* For AISI 316 replace TS with TN : Performance Data remains same.

### Nett Weights & Dimensions

Pump Model	Dimensions in Inches		Nett Weight (lbs)
	D	H	
TS250-625/01A-6	8.3	25.35	66.04
TS250-625/01-6	8.3	25.35	66.04
TS250-625/02AA-6	8.3	31.41	79.40
TS250-625/02A-6	8.3	31.41	79.40
TS250-625/02-6	8.3	31.41	79.40
TS250-625/03AA-8	8.3	37.48	92.70
TS250-625/03A-8	8.3	37.48	92.70
TS250-625/03-8	8.3	37.48	92.70
TS250-625/04AA-8	8.3	43.54	106
TS250-625/04A-8	8.3	43.54	106
TS250-625/04-8	8.3	43.54	106

Pump Height(H) & Weight(lbs) are approximate.

**These pumps can also be supplied with BSP standard discharge outlet on request.**

All performance data is based on rated input. Tolerance in accordance with ISO 9906 Annex-A.



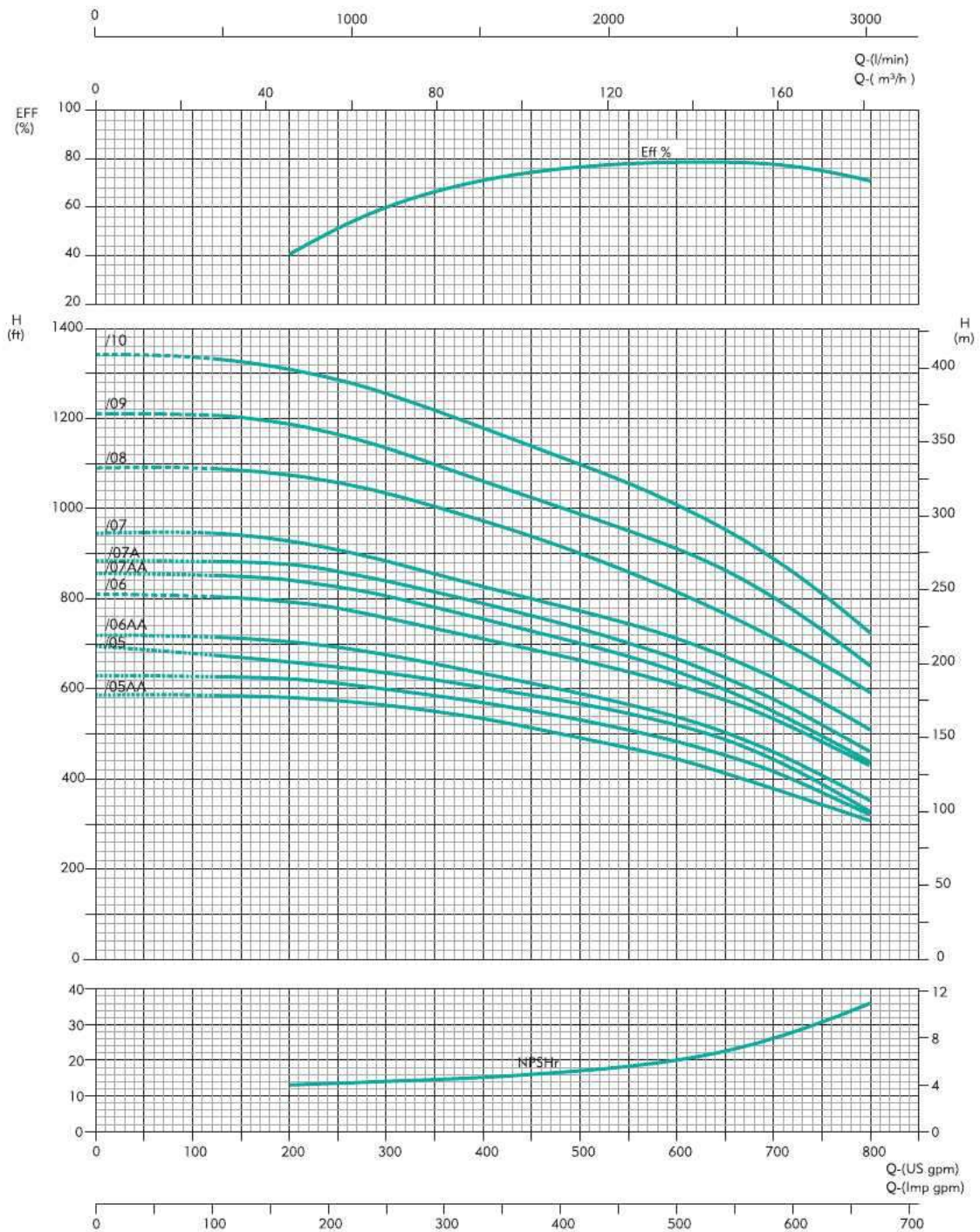
# PERFORMANCE CURVES

## TS / TN SERIES > 10"

Model : **TS 250 - 625**

Outlet Size : **6" NPT**

**3450 rpm**



Curve tolerance according to ISO : 9906, Annex - A.

## PERFORMANCE DATA

### TS / TN SERIES > 10"

Model : **TS 250 - 625**

Outlet Size : **6" NPT**

**3450 rpm**

Pump Model	Power		m <sup>3</sup> /h USGPM	0	45.42	90.84	136	159	181.68
	HP	kW		0	200	400	600	700	800
TS250-625/05AA-8	100	75	TOTAL DYNAMIC HEAD IN FEET	586	584	535	446	380	307
TS250-625/05A-8	100	75		629	625	570	485	420	320
TS250-625/05-8	100	75		695	660	603	520	444	326
TS250-625/06AA-8	100	75		718	703	632	539	460	350
TS250-625/06-8	125	93		810	794	710	610	535	430
TS250-625/07AA-8	125	93		858	840	754	638	550	438
TS250-625/07A	150	110		884	881	790	668	580	460
TS250-625/07	150	110		945	926	827	710	623	510
TS250-625/08	175	132		1090	1073	972	815	713	595
TS250-625/09	175	132		1210	1184	1060	915	806	655
TS250-625/10	200	150		1342	1308	1180	1008	890	725

\* For AISI 316 replace TS with TN : Performance Data remains same.

### Nett Weights & Dimensions

Pump Model	Dimensions in Inches		Nett Weight (lbs)
	D	H	
TS250-625/05AA-8	8.3	49.60	119.40
TS250-625/05A-8	8.3	49.60	119.40
TS250-625/05-8	8.3	49.60	119.40
TS250-625/06AA-8	8.3	55.66	132.70
TS250-625/06-8	8.3	55.66	132.70
TS250-625/07AA-8	8.3	61.73	146.00
TS250-625/07A	8.3	61.73	146.00
TS250-625/07	8.3	61.73	146.00
TS250-625/08	8.3	67.60	167.00
TS250-625/09	8.3	73.85	172.80
TS250-625/10	8.3	79.92	186.10



Pump Height(H) & Weight(lbs) are approximate.

**These pumps can also be supplied with BSP standard discharge outlet on request.**

All performance data is based on rated input. Tolerance in accordance with ISO 9906 Annex-A.

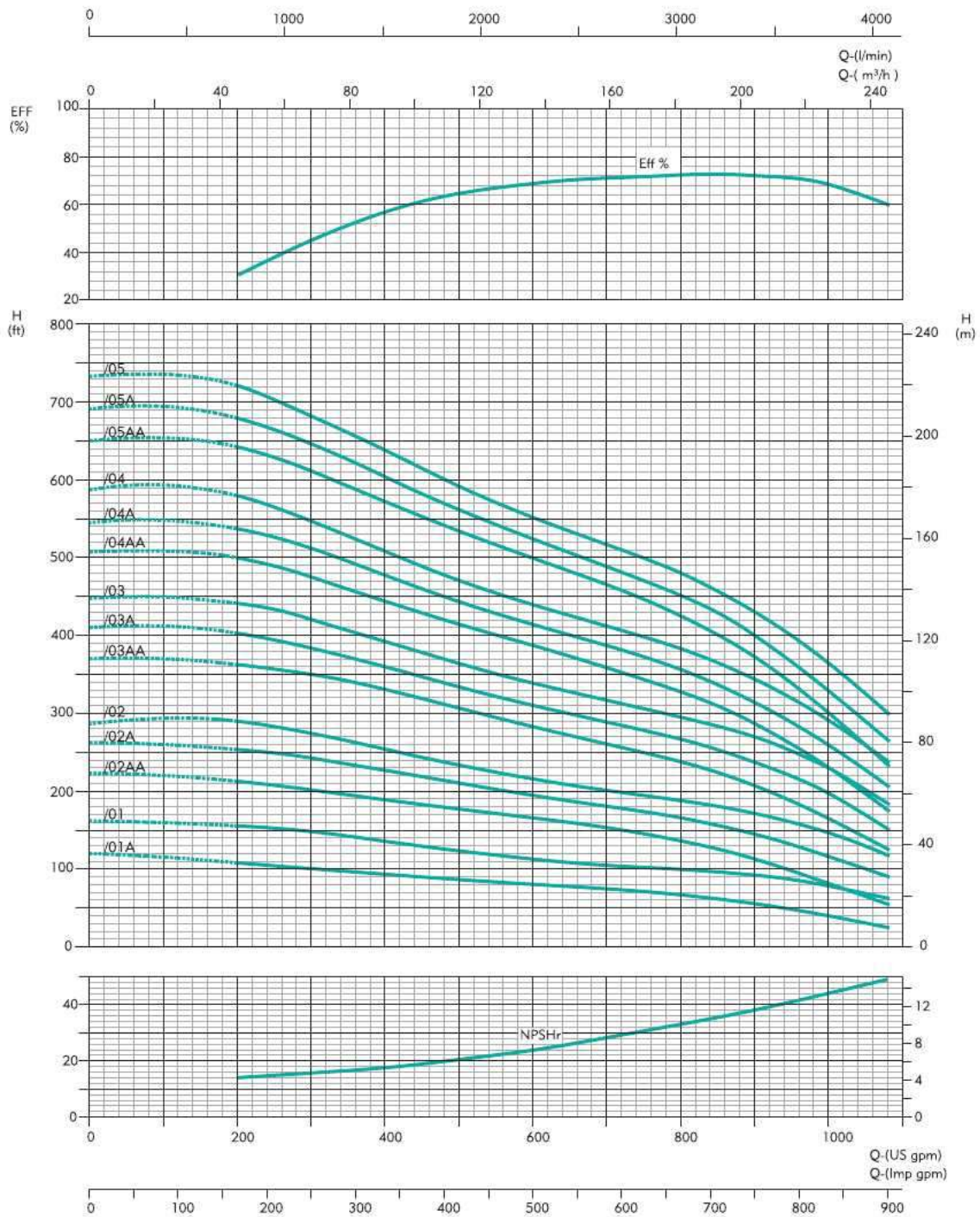
# PERFORMANCE CURVES

## TS / TN SERIES > 10"

Model : **TS 250 - 800**

Outlet Size : **6"**

**3450 rpm**



Curve tolerance according to ISO : 9906, Annex - A.



## PERFORMANCE DATA

### TS / TN SERIES > 10"

Model : **TS 250 - 800**

Outlet Size : **6"**

**3450 rpm**

Pump Model	Power		m <sup>3</sup> /h USGPM	0	45.42	90.84	136	181.68	245.94
	HP	kW		0	200	400	600	800	1083
TS250-800/01A-6	20	15	TOTAL DYNAMIC HEAD IN FEET	120	108	92	80	67	25
TS250-800/01-6	30	22		161	156	134	113	100	63
TS250-800/02AA-6	35/40	26/30		223	212	188	165	135	54
TS250-800/02A-8	50	37		262	253	226	195	165	90
TS250-800/02-8	50	37		287	288	252	215	189	118
TS250-800/03AA-8	60	45		370	363	330	282	238	125
TS250-800/03A-8	75	55		410	403	360	310	266	150
TS250-800/03-8	75	55		449	442	392	338	295	182
TS250-800/04AA-8	100	75		509	500	444	387	328	175
TS250-800/04A-8	100	75		545	538	478	415	357	207
TS250-800/04-8	100	75		588	580	510	440	383	238
TS250-800/05AA-8	125	93		650	642	572	500	426	232
TS250-800/05A-8	125	93		690	680	605	522	450	262
TS250-800/05-8	125	93		733	720	638	552	480	300

\* For AISI 316 replace TS with TN ; Performance Data remains same.

### Nett Weights & Dimensions

Pump Model	Dimensions in Inches		Nett Weight (lbs)
	D	H	
TS250-800/01A-6	8.2	26	68
TS250-800/01-6	8.2	26	68
TS250-800/02AA-6	8.2	32	83
TS250-800/02A-8	8.2	32	83
TS250-800/02-8	8.2	32	83
TS250-800/03AA-8	8.2	38	98
TS250-800/03A-8	8.2	38	98
TS250-800/03-8	8.2	38	98
TS250-800/04AA-8	8.2	44.5	113
TS250-800/04A-8	8.2	44.5	113
TS250-800/04-8	8.2	44.5	113
TS250-800/05AA-8	8.2	51	128
TS250-800/05A-8	8.2	51	128
TS250-800/05-8	8.2	51	128

Pump Height(H) & Weight(lbs) are approximate.

**These pumps can also be supplied with BSP standard discharge outlet on request.**

All performance data is based on rated input. Tolerance in accordance with ISO 9906 Annex-A.



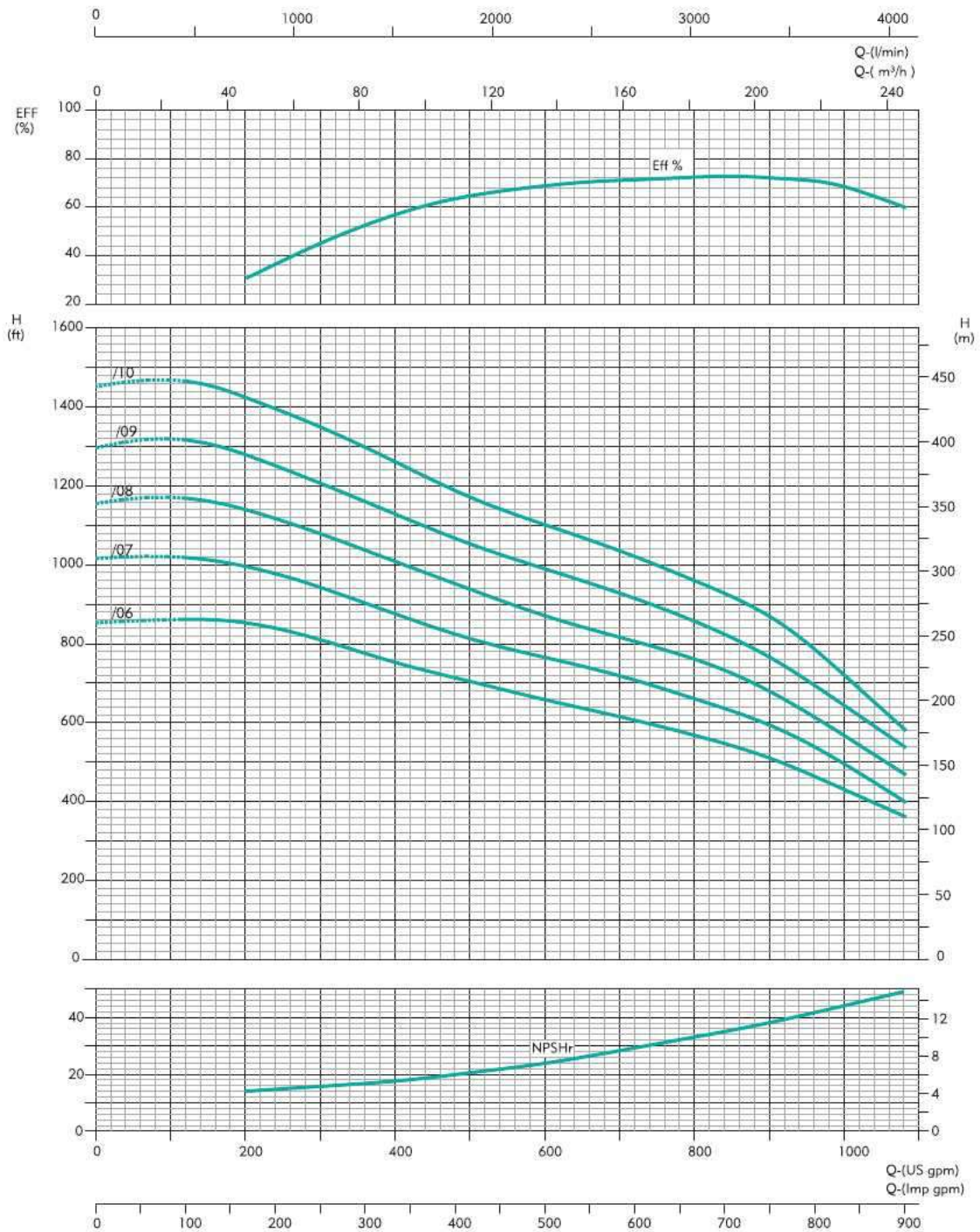
# PERFORMANCE CURVES

## TS / TN SERIES > 10"

Model : **TS 250 - 800**

Outlet Size : **6"**

**3450 rpm**



Curve tolerance according to ISO : 9906, Annex - A.

## PERFORMANCE DATA

### TS / TN SERIES > 10"

Model : **TS 250 - 800**

Outlet Size : **6"**

**3450 rpm**

Pump Model	Power		m <sup>3</sup> /h	0	45.42	90.84	136	181.68	245.94
	HP	kW	USGPM	0	200	400	600	800	1083
TS250-800/06	150	110	TOTAL DYNAMIC HEAD IN FEET	854	850	748	662	565	364
TS250-800/07	175	132		1017	988	868	768	660	400
TS250-800/08	200	150		1155	1138	1011	870	760	469
TS250-800/09	225/250	170/187		1300	1284	1126	985	859	540
TS250-800/10	250	187		1454	1425	1260	1100	958	585

\* For AISI 316 replace TS with TN : Performance Data remains same.

### Nett Weights & Dimensions

Pump Model	Dimensions in Inches		Nett Weight (lbs)
	D	H	
TS250-800/06	8.2	57.5	143
TS250-800/07	8.2	64	158
TS250-800/08	8.2	70.5	173
TS250-800/09	8.2	77	188
TS250-800/10	8.2	83.5	203



Pump Height(H) & Weight(lbs) are approximate.

**These pumps can also be supplied with BSP standard discharge outlet on request.**

All performance data is based on rated input. Tolerance in accordance with ISO 9906 Annex-A.

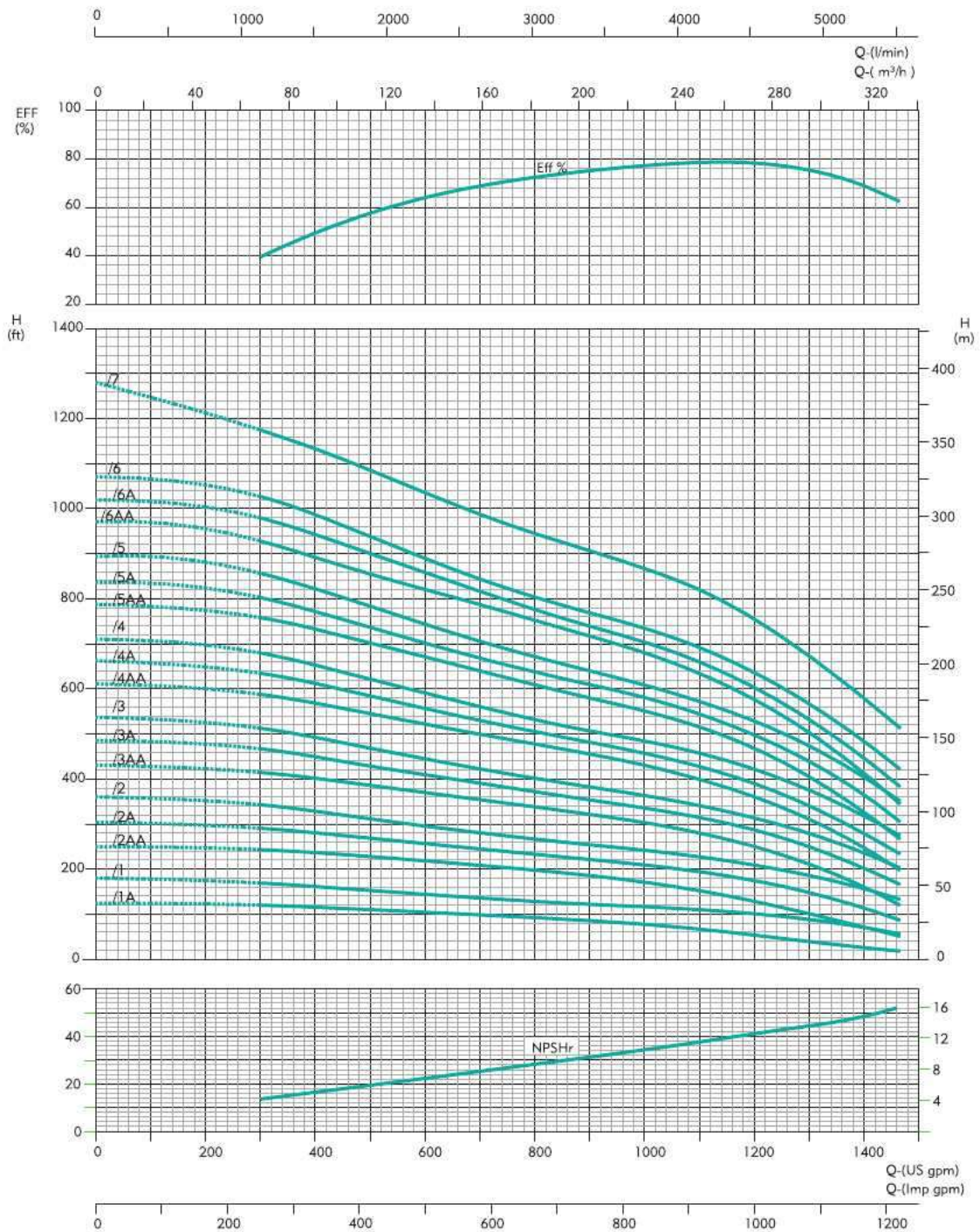
# PERFORMANCE CURVES

## TS / TN SERIES > 10"

Model : **TS 250 - A75**

Outlet Size : **6"**

**3450 rpm**



Curve tolerance according to ISO : 9906, Annex - A.

## PERFORMANCE DATA

### TS / TN SERIES > 10"

Model : **TS 250 - A75**

Outlet Size : **6"**

**3450 rpm**

Pump Model	Power		m <sup>3</sup> /h USGPM	0	45.42	136	181.68	273	318
	HP	kW		0	200	600	800	1200	1400
TS250-A75/01A-6	30	22	TOTAL DYNAMIC HEAD IN FEET	123	119	105	90	53	25
TS250-A75/01-6	40	30		180	174	140	130	100	70
TS250-A75/02AA-8	60	45		250	249	222	199	130	70
TS250-A75/02A-8	75	55		303	299	258	232	175	110
TS250-A75/02-8	100	75		361	350	295	266	210	156
TS250-A75/03AA-8	100	75		431	420	370	338	250	157
TS250-A75/03A-8	125	93		485	478	410	371	286	200
TS250-A75/03-8	125	93		438	525	445	400	315	236
TS250-A75/04AA	150	110		610	600	520	475	360	250
TS250-A75/04A	150	110		660	650	556	505	390	280
TS250-A75/04	150	110		710	700	592	534	420	320
TS250-A75/05AA	175	130		788	774	670	610	478	330
TS250-A75/05A	175	130		836	825	704	638	498	365
TS250-A75/05	200	150		894	880	743	670	530	405
TS250-A75/06AA	225/250	170/187		970	955	820	753	575	415
TS250-A75/06A	250	187		1020	1008	858	775	605	445
TS250-A75/06	250	187		1070	1052	890	804	638	484
TS250-A75/07	300	220		1280	1214	1036	942	756	573

\* For AISI 316 replace TS with TN ; Performance Data remains same.

### Nett Weights & Dimensions

Pump Model	Dimensions in Inches		Nett Weight (lbs)
	D	H	
TS250-A75/01A-6	10	31	118
TS250-A75/01-6	10	31	118
TS250-A75/02AA-8	10	38	145
TS250-A75/02A-8	10	38	145
TS250-A75/02-8	10	38	145
TS250-A75/03AA-8	10	45	173
TS250-A75/03A-8	10	45	173
TS250-A75/03-8	10	45	173
TS250-A75/04AA	10	52	201
TS250-A75/04A	10	52	201
TS250-A75/04	10	52	201
TS250-A75/05AA	10	59	228
TS250-A75/05A	10	59	228
TS250-A75/05	10	59	228
TS250-A75/06AA	10	66	256
TS250-A75/06A	10	66	256
TS250-A75/06	10	66	256
TS250-A75/07	10	73	283

Pump Height(H) & Weight(lbs) are approximate.

**These pumps can also be supplied with BSP standard discharge outlet on request.**

All performance data is based on rated input. Tolerance in accordance with ISO 9906 Annex-A.





## GENERAL DATA

### THERMOPLASTIC SUBMERSIBLE PUMPS > TP SERIES

**Construction** Tormac Thermoplastic submersible pumps are ingeniously designed and developed employing latest engineering softwares, high-tech machinery, tools and cutting edge of pumping technology to deliver the best possible hydraulic efficiency. The construction of these pumps not only prevents corrosion but also exceptionally increases the life-span. The integrated and most modern quality assurance systems used at every stage of the production and flawless workmanship ensure sustained and consistent operation.

All these submersible pumps are multistage single suction centrifugal type and provided with integral check-valve and NEMA standard coupling. These pumps are available with floating impellers and diffusers made of Thermoplastics and the shaft is made of AISI 304. The integral check valve prevents back flow and reduces the risk of water hammer which paves the way for trouble free performance. The suction screen is designed with utmost care so as not to reduce the inflow of water and at the same time to prevent damage to the pump and clogging due to the entry of sand and other foreign particles.

#### Applications

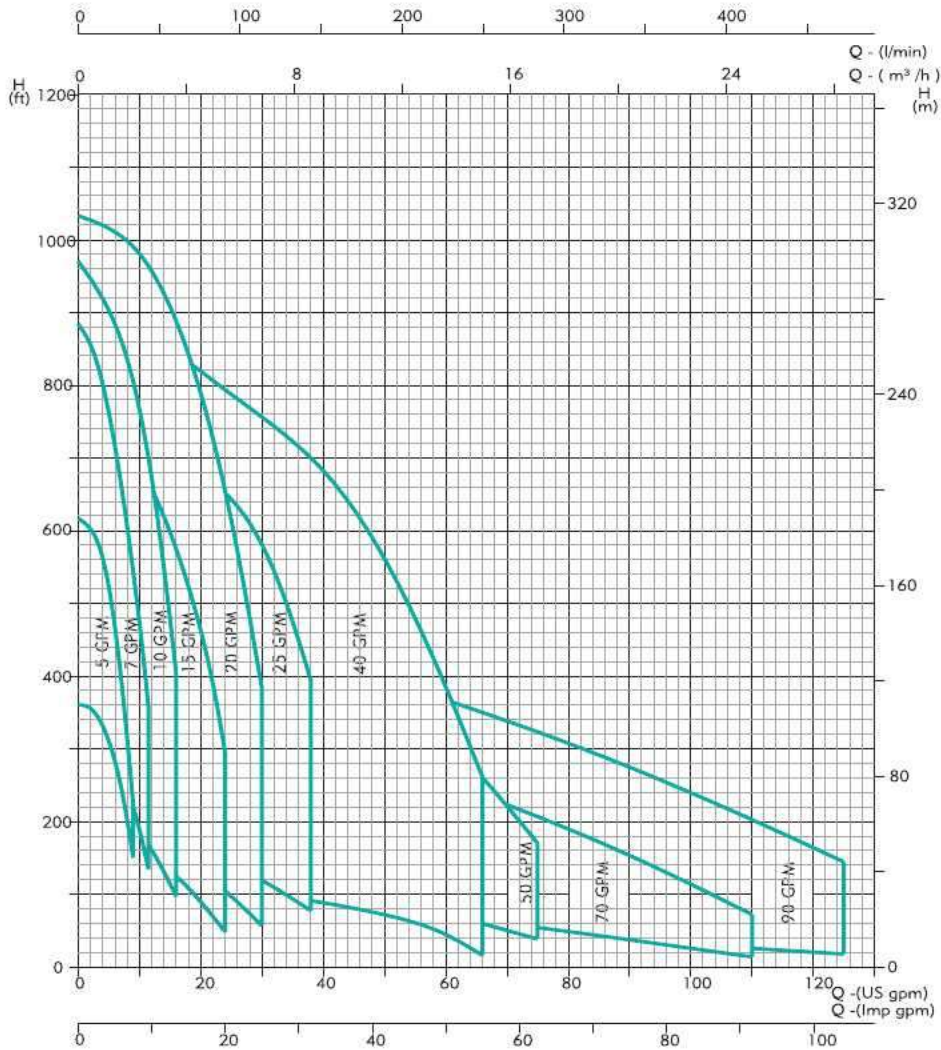
- Public water supply
- Fountains
- Irrigation
- Pressure boosting systems
- Industrial & Private water supply systems
- Air-conditioning equipments
- Sprinkler systems and Mining
- Farming
- Water plants
- Laboratories

#### Features

- Tried and trusted
- Highly efficient
- Wide head and flow range with numerous models
- Floating impeller design for good sand resistance capacity
- Corrosion free parts for hygiene
- Low wear and tear
- Perfectly and aesthetically designed and easily serviceable.

## GENERAL DATA

### Quick Selection > TP 100 Series



#### Performance Curve Conditions

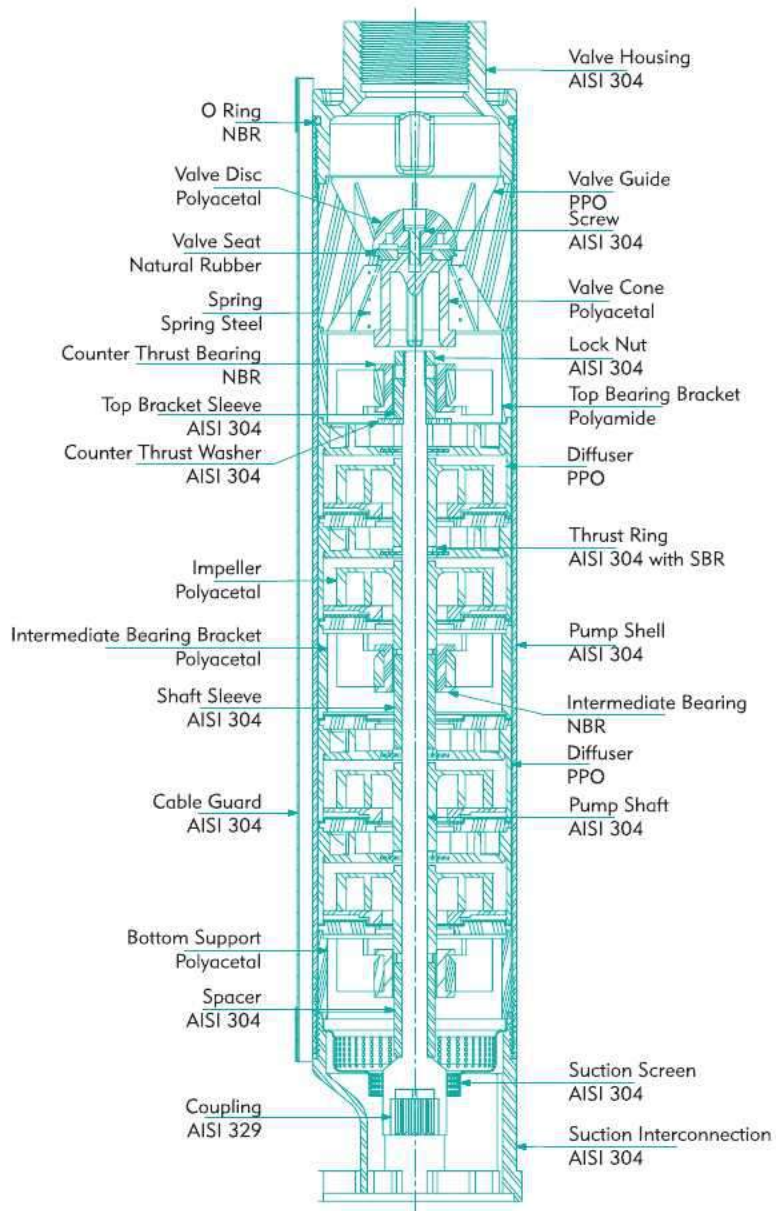
a.	The Performance curves show performance of the pump at rated speed and voltage and @ 10 feet minimum submergence. The speed of motor is approximately : 3450 rpm	e.	Q/H : The curves are inclusive of check valve and suction inter-connector losses at the actual speed.
b.	The measurements were made with airless water at 20°C. For pumping liquids with a density higher than that of water, motors with correspondingly higher outputs must be used.	f.	Efficiency curve: "EFF%" shows pump stage efficiency.
c.	Pipe friction losses have not been included in the performance curves and performance data.	g.	Curve tolerance according to ISO : 9906, Annex-A.
d.	The bold curves indicate the recommended performance range.	h.	The performance are at rated voltage and are only Indicative. Actual discharge depends on availability of water in well, based on strength of water source, height of water column, submergence of pump, etc.,
		i.	The given performance are for a specific materials of construction of pumps.



## CONSTRUCTIONAL DATA

**5 - 20 gpm**

**4" > TP Series > Version TP > Constructional Data of Radial Flow Pump**



Pump Version - TS = AISI 304 Construction

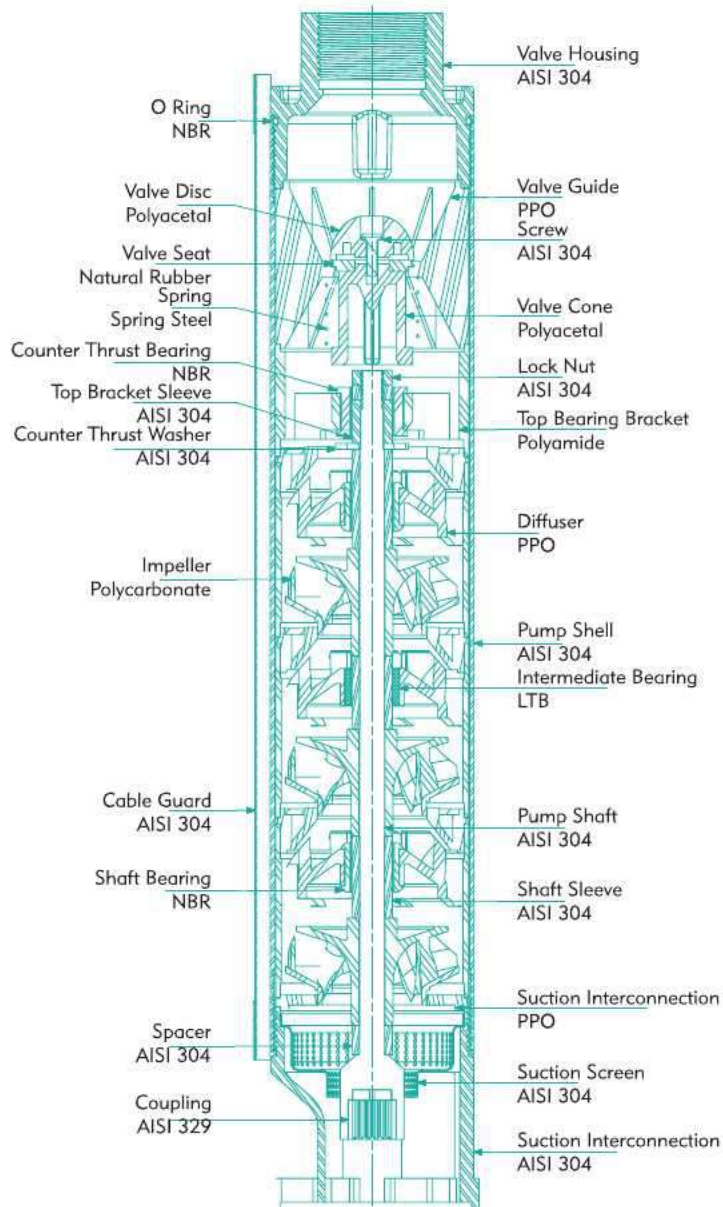
Pump Version - TN = AISI 316 Construction

NEMA mounting dimensions.

## CONSTRUCTIONAL DATA

**40 gpm**

4" > TP Series > Version TP > Constructional Data of Radial Flow Pump

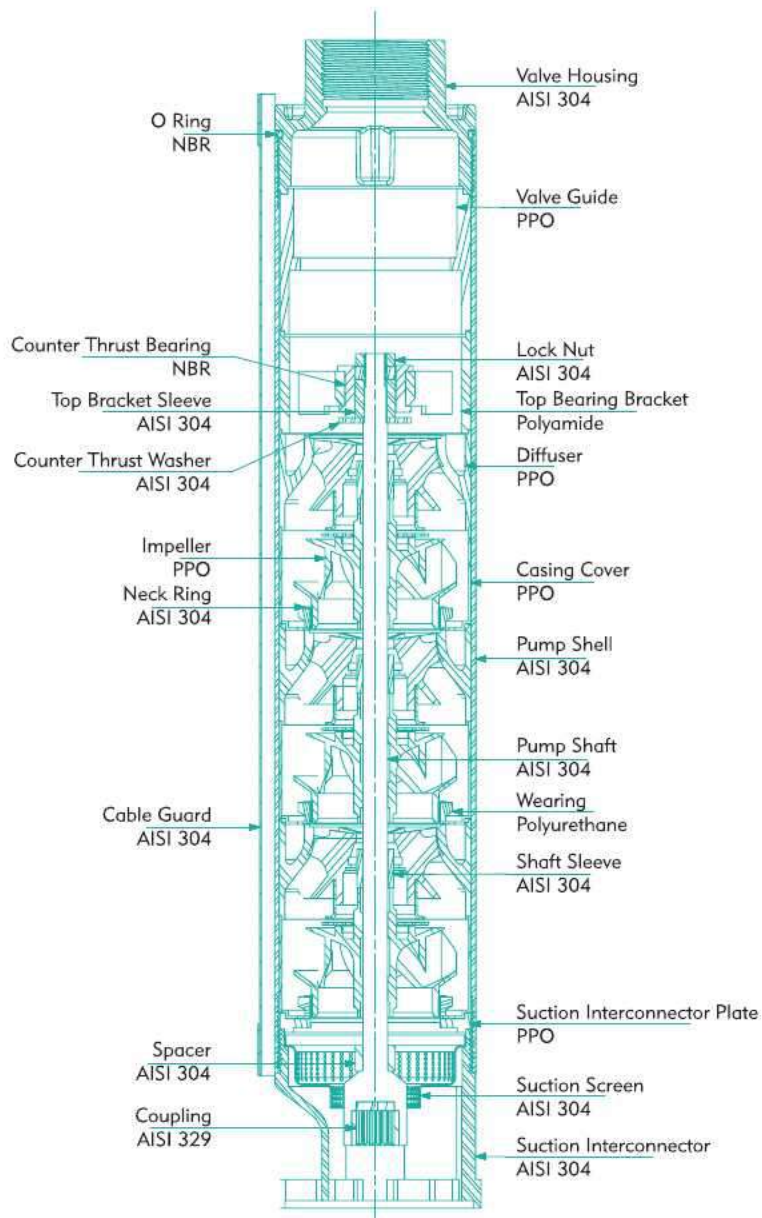


Pump Version - TS = AISI 304 Construction  
 Pump Version - TN = AISI 316 Construction  
 NEMA mounting dimensions.

## CONSTRUCTIONAL DATA

**50 - 90 gpm**

**4" > TP Series > Version TP > Constructional Data of Radial Flow Pump**



Pump Version - TS = AISI 304 Construction  
 Pump Version - TN = AISI 316 Construction  
 NEMA mounting dimensions.

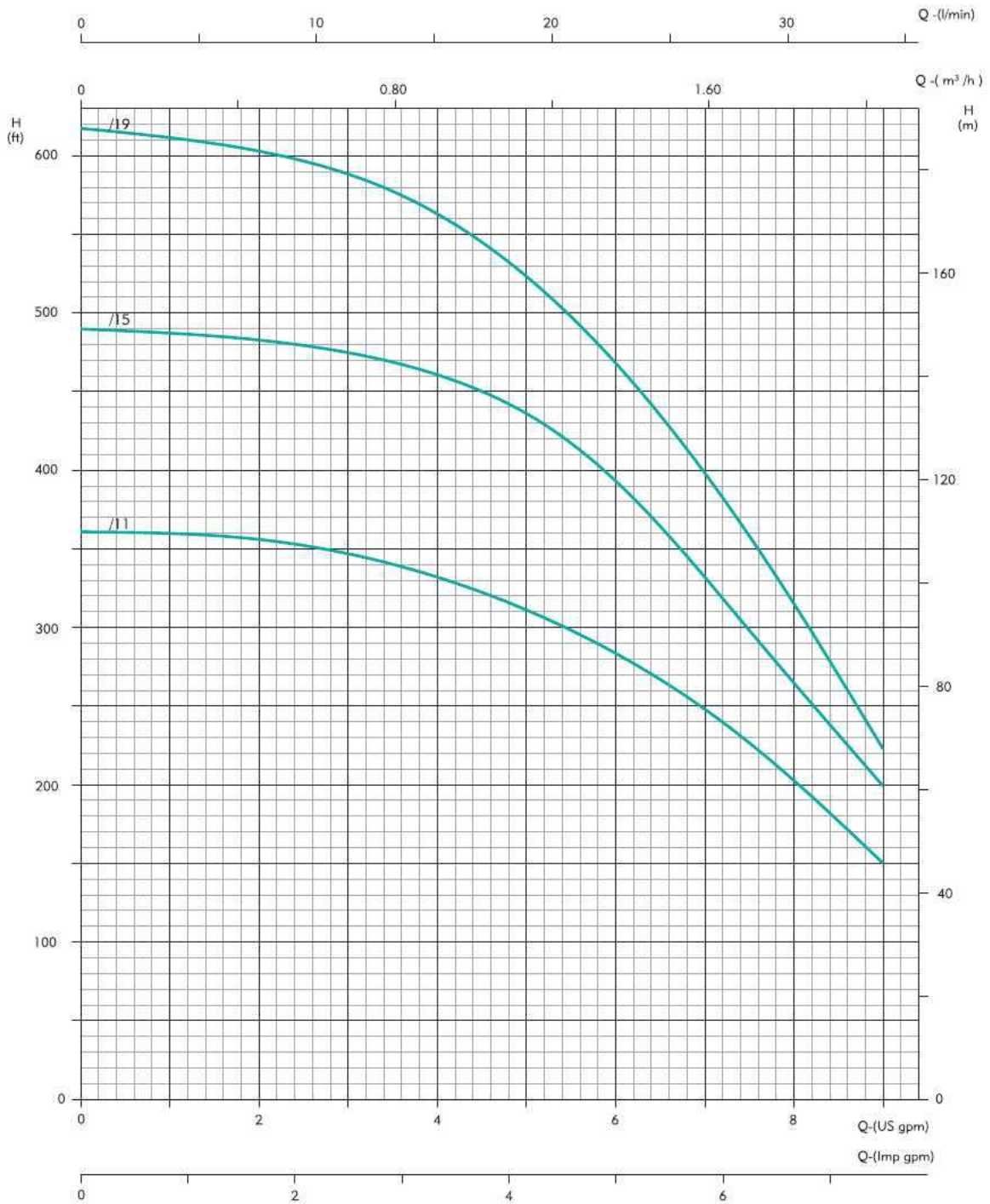
# PERFORMANCE CURVES

## TP SERIES > 4"

Model : **TP 100 - 5**

Outlet Size : **1" NPT**

**3450 rpm**



Curve tolerance according to ISO : 9906, Annex - A.

## PERFORMANCE DATA

### TP SERIES > 4"

Model : **TP 100 - 5**

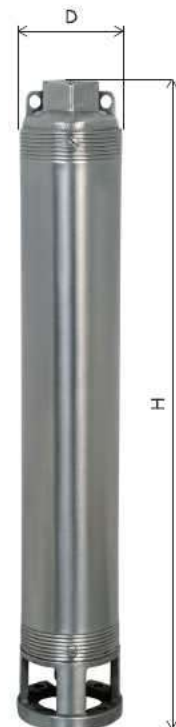
Outlet Size : **1" NPT**

**3450 rpm**

Pump Model	Power		m <sup>3</sup> /h	0	0.45	0.91	1.36	2.04
	HP	kW	USGPM	0	2	4	6	9
TP100-5/11	0.5	0.37	TOTAL DYNAMIC HEAD IN FEET	360	355	332	283	150
TP100-5/15	0.75	0.55		490	473	460	393	200
TP100-5/19	1	0.75		618	603	564	467	224

### Nett Weights & Dimensions

Pump Model	Dimensions in Inches		Nett Weight (lbs)
	D	H	
TP100-5/11	3.98	17.44	7.43
TP100-5/15	3.98	21.57	8.97
TP100-5/19	3.98	24.53	13.43



Pump Height(H) & Weight(lbs) are approximate.

**These pumps can also be supplied with BSP standard discharge outlet on request.**

All performance data is based on rated input. Tolerance in accordance with ISO 9906 Annex-A.

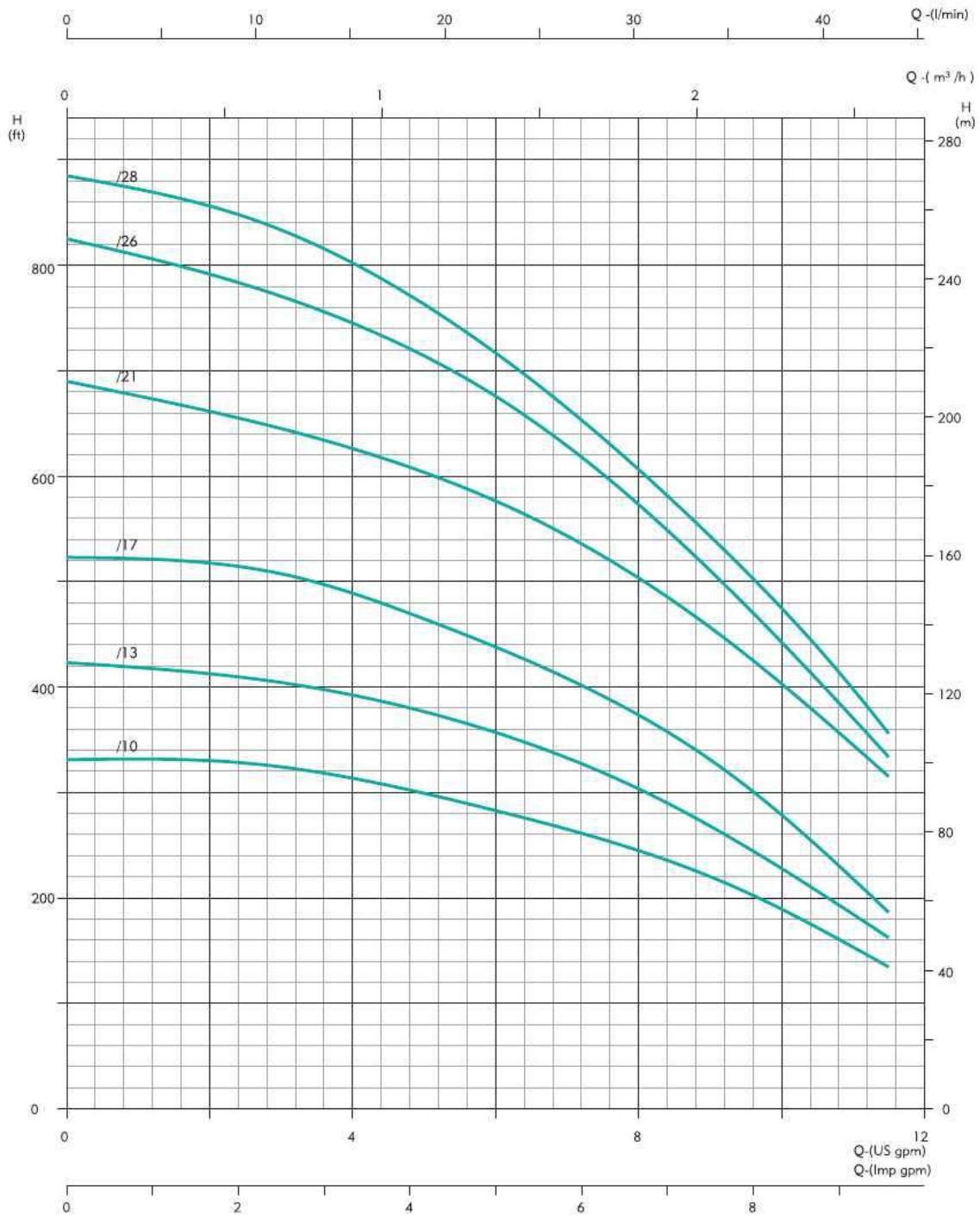
# PERFORMANCE CURVES

## TP SERIES > 4"

Model : **TP 100 - 7**

Outlet Size : **1" NPT**

**3450 rpm**



Curve tolerance according to ISO : 9906, Annex - A.

## PERFORMANCE DATA

### TP SERIES > 4"

Model : **TP 100 - 7**

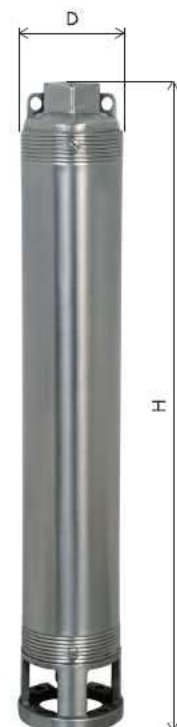
Outlet Size : **1" NPT**

**3450 rpm**

Pump Model	Power		m <sup>3</sup> /h USGPM	0	0.45	1.36	2.27	2.61
	HP	kW		0	2	6	10	11.5
TP100-7/10	0.5	0.37	TOTAL DYNAMIC HEAD IN FEET	332	330	282	189	136
TP100-7/13	0.75	0.55		422	412	358	229	162
TP100-7/17	1	0.75		522	518	438	279	188
TP100-7/21	1.5	1.1		690	662	578	405	316
TP100-7/26	2	1.5		822	792	677	443	336
TP100-7/28	2	1.5		885	856	718	477	358

### Nett Weights & Dimensions

Pump Model	Dimensions in Inches		Nett Weight (lbs)
	D	H	
TP100-7/10	3.98	18.03	7.50
TP100-7/13	3.98	20.63	8.47
TP100-7/17	3.98	25.75	13.56
TP100-7/21	3.98	29.21	15.39
TP100-7/26	3.98	34.72	18.06
TP100-7/28	3.98	36.46	18.98



Pump Height(H) & Weight(lbs) are approximate.

**These pumps can also be supplied with BSP standard discharge outlet on request.**

All performance data is based on rated input. Tolerance in accordance with ISO 9906 Annex-A.

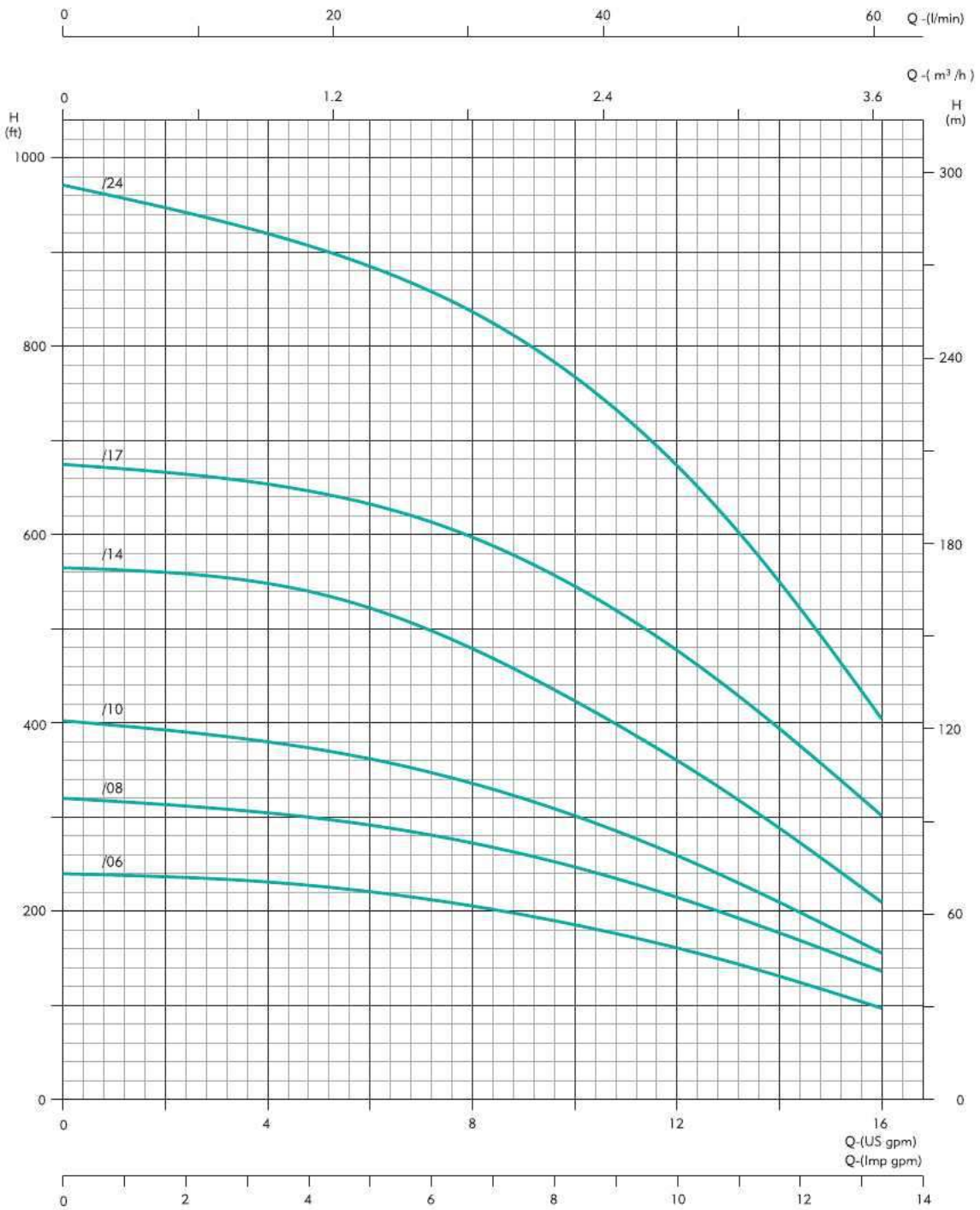
# PERFORMANCE CURVES

## TP SERIES > 4"

Model : **TP 100 - 10**

Outlet Size : **1 1/4" NPT**

**3450 rpm**



Curve tolerance according to ISO : 9906, Annex - A.



## PERFORMANCE DATA

### TP SERIES > 4"

Model : **TP 100 - 10**

Outlet Size : **1 1/4" NPT**

**3450 rpm**

Pump Model	Power		m <sup>3</sup> /h USGPM	0	0.91	1.82	2.73	3.63
	HP	kW		0	4	8	12	16
TP100-10/06	0.5	0.37	TOTAL DYNAMIC HEAD IN FEET	240	230	208	162	98
TP100-10/08	0.75	0.55		320	306	272	216	138
TP100-10/10	1	0.75		403	380	336	259	158
TP100-10/14	1.5	1.1		565	548	479	360	210
TP100-10/17	2	1.5		674	654	598	478	302
TP100-10/24	3	2.2		970	920	818	675	405

### Nett Weights & Dimensions

Pump Model	Dimensions in Inches		Nett Weight (lbs)
	D	H	
TP100-10/06	3.98	14.84	6.22
TP100-10/08	3.98	16.65	6.90
TP100-10/10	3.98	18.50	7.56
TP100-10/14	3.98	23.31	9.30
TP100-10/17	3.98	26.54	13.80
TP100-10/24	3.98	32.91	17.15



Pump Height(H) & Weight(lbs) are approximate.

**These pumps can also be supplied with BSP standard discharge outlet on request.**

All performance data is based on rated input. Tolerance in accordance with ISO 9906 Annex-A.

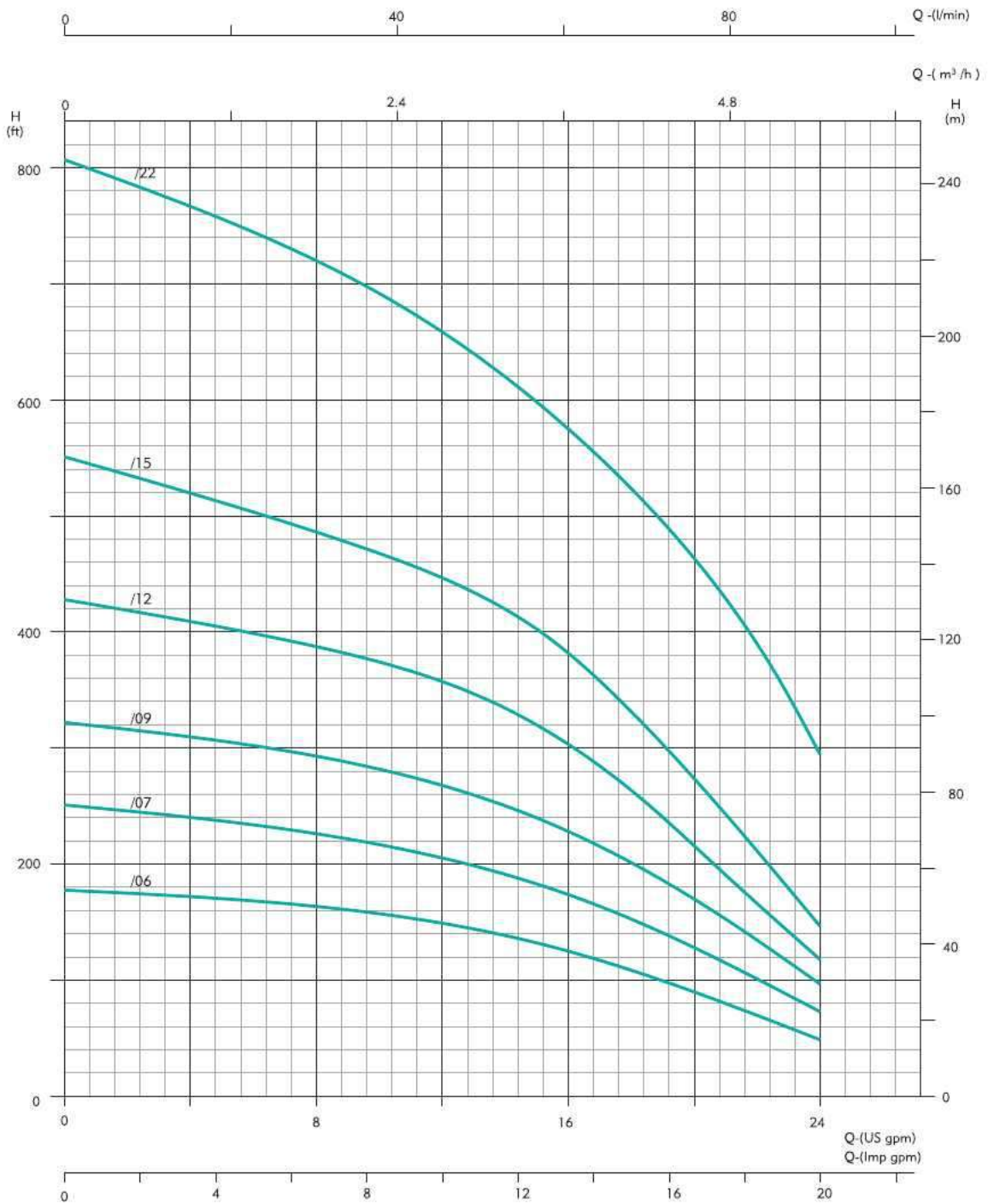
# PERFORMANCE CURVES

## TP SERIES > 4"

Model : **TP 100 - 15**

Outlet Size : **1 1/4" NPT**

**3450 rpm**



Curve tolerance according to ISO : 9906, Annex - A.

## PERFORMANCE DATA

### TP SERIES > 4"

Model : **TP 100 - 15**

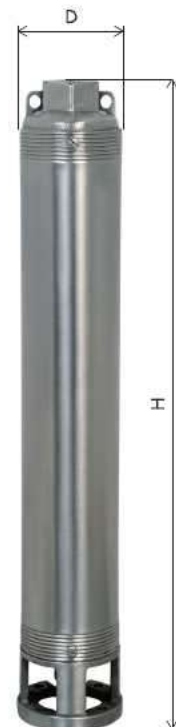
Outlet Size : **1 1/4" NPT**

**3450 rpm**

Pump Model	Power		m <sup>3</sup> /h USGPM	0	0.91	2.73	4.54	5.45
	HP	kW		0	4	12	20	24
TP100-15/06	0.5	0.37	TOTAL DYNAMIC HEAD IN FEET	178	172	148	90	50
TP100-15/07	0.75	0.55		250	240	208	128	72
TP100-15/09	1	0.75		322	310	268	170	96
TP100-15/12	1.5	1.1		428	410	358	216	118
TP100-15/15	2	1.5		550	520	448	274	148
TP100-15/22	3	2.2		806	768	658	464	296

### Nett Weights & Dimensions

Pump Model	Dimensions in Inches		Nett Weight (lbs)
	D	H	
TP100-15/06	3.98	15.71	4.50
TP100-15/07	3.98	16.77	5.25
TP100-15/09	3.98	18.90	6.75
TP100-15/12	3.98	22.05	8.99
TP100-15/15	3.98	26.42	11.24
TP100-15/22	3.98	34.29	16.49



Pump Height(H) & Weight(lbs) are approximate.

**These pumps can also be supplied with BSP standard discharge outlet on request.**

All performance data is based on rated input. Tolerance in accordance with ISO 9906 Annex-A.

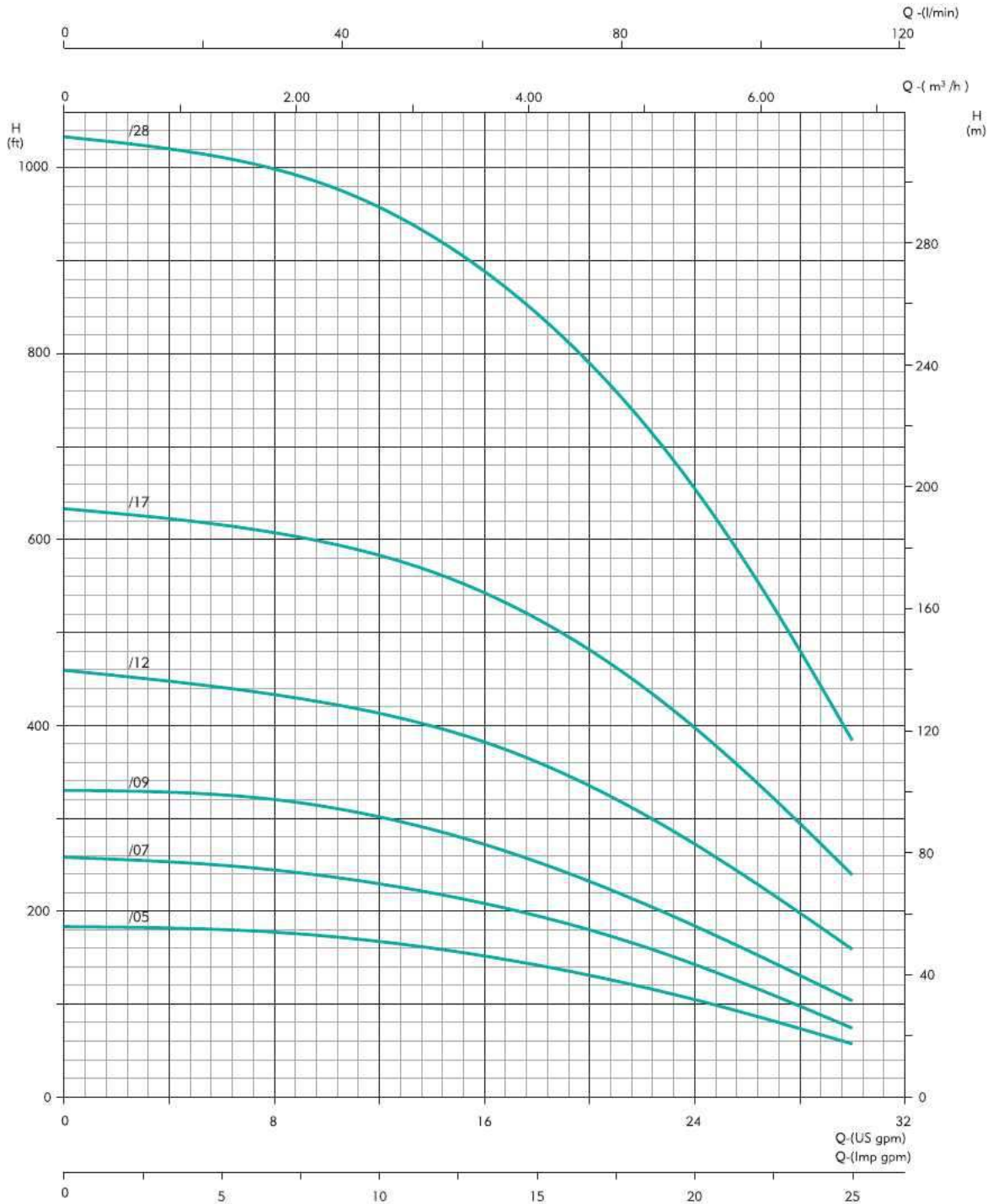
# PERFORMANCE CURVES

## TP SERIES > 4"

Model : **TP 100 - 20**

Outlet Size : **1" NPT**

**3450 rpm**



Curve tolerance according to ISO : 9906, Annex - A.

## PERFORMANCE DATA

### TP SERIES > 4"

Model : **TP 100 - 20**

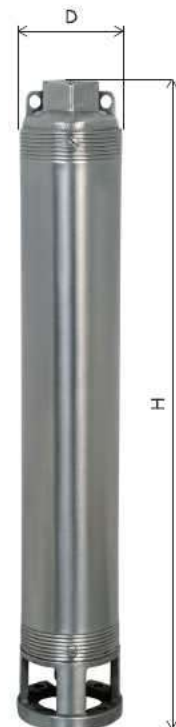
Outlet Size : **1" NPT**

**3450 rpm**

Pump Model	Power		m <sup>3</sup> /h USGPM	0	1.82	3.63	5.45	6.81
	HP	kW		0	8	16	24	30
TP100-20/05	0.75	0.55	TOTAL DYNAMIC HEAD IN FEET	182	178	152	105	58
TP100-20/07	1	0.75		258	244	208	143	76
TP100-20/09	1.5	1.1		330	320	272	185	102
TP100-20/12	2	1.5		460	432	382	272	159
TP100-20/17	3	2.2		630	608	542	398	239
TP100-20/28	5	3.7		1032	998	888	656	382

### Nett Weights & Dimensions

Pump Model	Dimensions in Inches		Nett Weight (lbs)
	D	H	
TP100-20/05	3.98	15.08	3.81
TP100-20/07	3.98	17.36	5.34
TP100-20/09	3.98	19.65	6.86
TP100-20/12	3.98	23.07	9.13
TP100-20/17	3.98	30.43	12.94
TP100-20/28	3.98	44.17	21.32



Pump Height(H) & Weight(lbs) are approximate.

**These pumps can also be supplied with BSP standard discharge outlet on request.**

All performance data is based on rated input. Tolerance in accordance with ISO 9906 Annex-A.

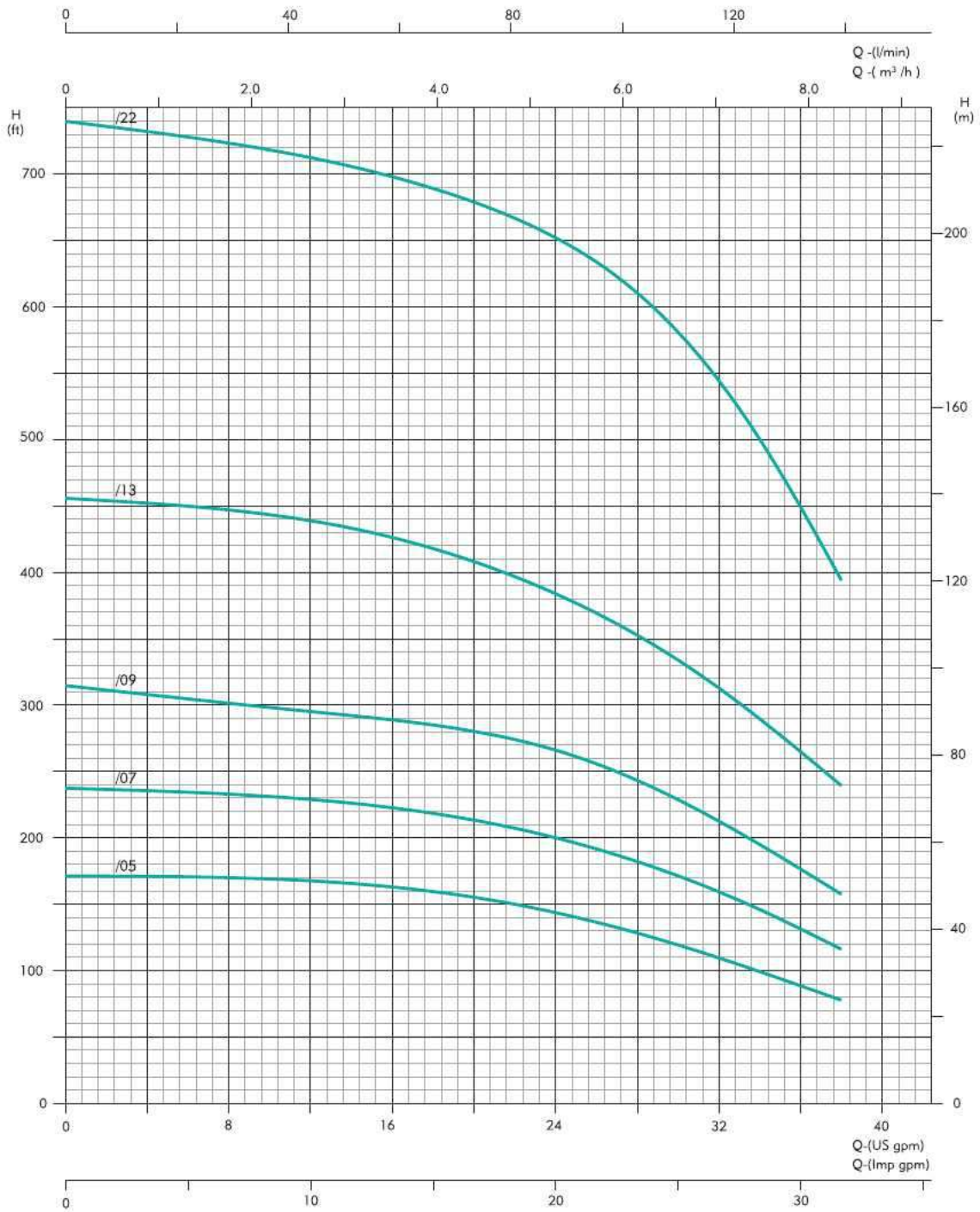
# PERFORMANCE CURVES

## TP SERIES > 4"

Model : **TP 100 - 25**

Outlet Size : **1½" NPT**

**3450 rpm**



Curve tolerance according to ISO : 9906, Annex - A.

## PERFORMANCE DATA

### TP SERIES > 4"

Model : **TP 100 - 25**

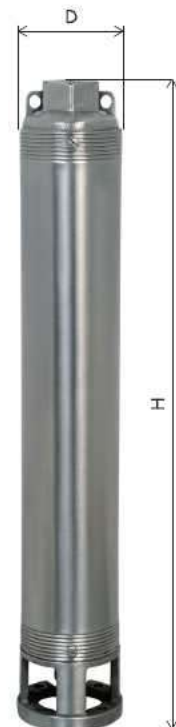
Outlet Size : **1½" NPT**

**3450 rpm**

Pump Model	Power		m <sup>3</sup> /h USGPM	0	1.82	3.63	5.45	7.27	8.18
	HP	kW		0	8	16	24	32	36
TP100-25/05	1	0.75	TOTAL DYNAMIC HEAD IN FEET	172	170	164	144	109	78
TP100-25/07	1.5	1.1		238	234	223	200	158	117
TP100-25/09	2	1.5		315	302	288	266	214	156
TP100-25/13	3	2.2		455	447	425	384	313	239
TP100-25/22	5	3.7		740	723	698	653	545	394

### Nett Weights & Dimensions

Pump Model	Dimensions in Inches		Nett Weight (lbs)
	D	H	
TP100-25/05	3.98	16.61	5.09
TP100-25/07	3.98	19.53	7.12
TP100-25/09	3.98	22.44	9.17
TP100-25/13	3.98	28.23	13.23
TP100-25/22	3.98	42.95	22.40



Pump Height(H) & Weight(lbs) are approximate.

**These pumps can also be supplied with BSP standard discharge outlet on request.**

All performance data is based on rated input. Tolerance in accordance with ISO 9906 Annex-A.

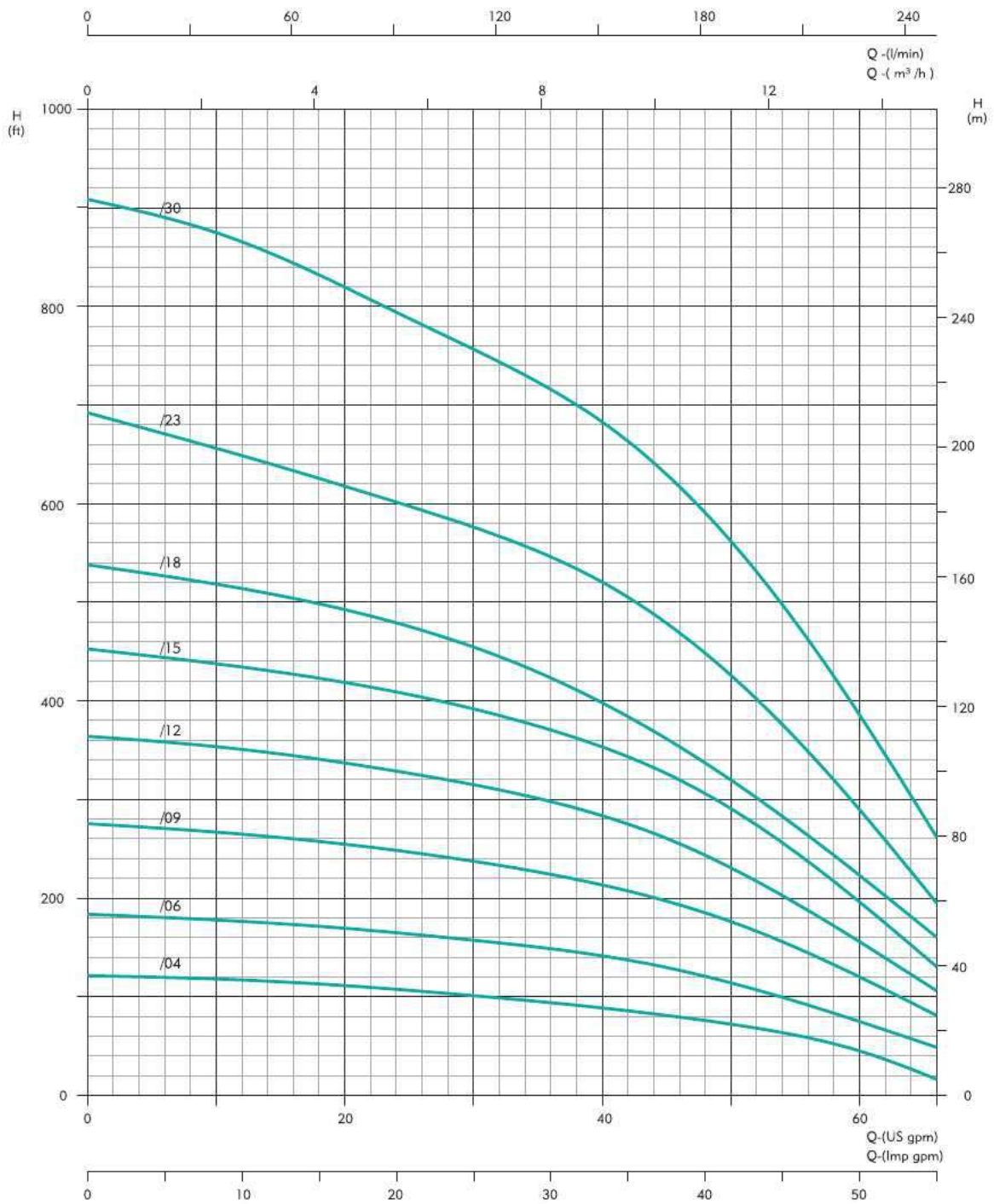
# PERFORMANCE CURVES

## TP SERIES > 4"

Model : **TP 100 - 40**

Outlet Size : **2" NPT**

**3450 rpm**



Curve tolerance according to ISO : 9906, Annex - A.



## PERFORMANCE DATA

### TP SERIES > 4"

Model : **TP 100 - 40**

Outlet Size : **2" NPT**

**3450 rpm**

Pump Model	Power		m <sup>3</sup> /h	0	4.54	9.08	12.26	14.99
	HP	kW	USGPM	0	20	40	54	66
TP100-40/04	1.5	1.1	TOTAL DYNAMIC HEAD IN FEET	120	112	88	64	18
TP100-40/06	2	1.5		182	168	141	98	50
TP100-40/09	3	2.2		276	256	212	156	81
TP100-40/12	4	3		365	338	284	205	104
TP100-40/15	5	3.7		452	418	354	256	130
TP100-40/18	6	4.5		538	492	398	284	160
TP100-40/23	7.5	5.5		690	618	520	375	196
TP100-40/30	10	7.5		909	819	684	496	262

### Nett Weights & Dimensions

Pump Model	Dimensions in Inches		Nett Weight (lbs)
	D	H	
TP100-40/04	3.98	14.72	3.79
TP100-40/06	3.98	17.17	5.67
TP100-40/09	3.98	20.83	8.51
TP100-40/12	3.98	24.49	11.35
TP100-40/15	3.98	29.33	14.18
TP100-40/18	3.98	32.99	17.02
TP100-40/23	3.98	39.09	21.76
TP100-40/30	3.98	48.82	28.37



Pump Height(H) & Weight(lbs) are approximate.

**These pumps can also be supplied with BSP standard discharge outlet on request.**

All performance data is based on rated input. Tolerance in accordance with ISO 9906 Annex-A.

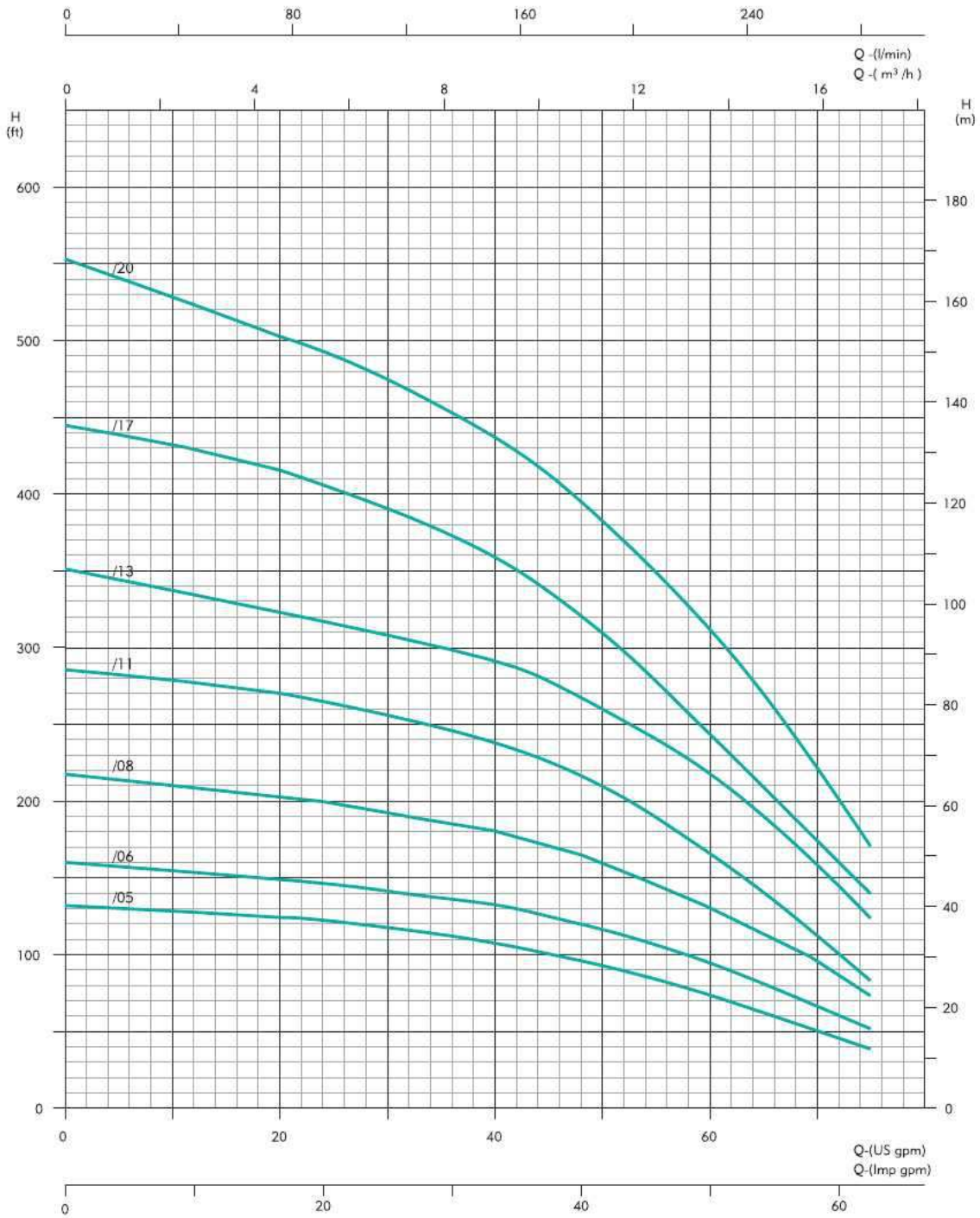
# PERFORMANCE CURVES

## TP SERIES > 4"

Model : **TP 100 - 50**

Outlet Size : **2" NPT**

**3450 rpm**



Curve tolerance according to ISO : 9906, Annex - A.

## PERFORMANCE DATA

### TP SERIES > 4"

Model : **TP 100 - 50**

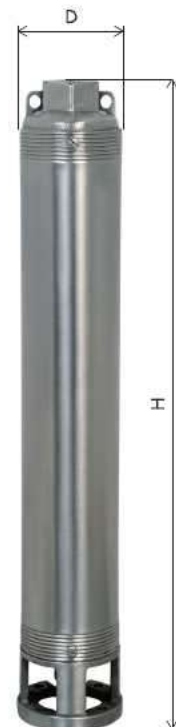
Outlet Size : **2" NPT**

**3450 rpm**

Pump Model	Power		m <sup>3</sup> /h	0	4.54	9.08	13.63	17.03
	HP	kW	USGPM	0	20	40	60	75
TP100-50/05	2	1.5	TOTAL DYNAMIC HEAD IN FEET	132	124	108	74	38
TP100-50/06	2	1.5		160	148	134	94	52
TP100-50/08	3	2.2		216	204	180	132	74
TP100-50/11	5	3.7		285	270	238	166	83
TP100-50/13	5	3.7		352	324	292	218	124
TP100-50/17	7.5	5.5		445	416	358	244	140
TP100-50/20	7.5	5.5		554	504	436	314	170

### Nett Weights & Dimensions

Pump Model	Dimensions in Inches		Nett Weight (lbs)
	D	H	
TP100-50/05	3.98	19.88	7.50
TP100-50/06	3.98	22.13	8.99
TP100-50/08	3.98	26.61	11.99
TP100-50/11	3.98	33.35	16.49
TP100-50/13	3.98	37.83	19.49
TP100-50/17	3.98	46.81	25.49
TP100-50/20	3.98	53.54	29.98



Pump Height(H) & Weight(lbs) are approximate.

**These pumps can also be supplied with BSP standard discharge outlet on request.**

All performance data is based on rated input. Tolerance in accordance with ISO 9906 Annex-A.

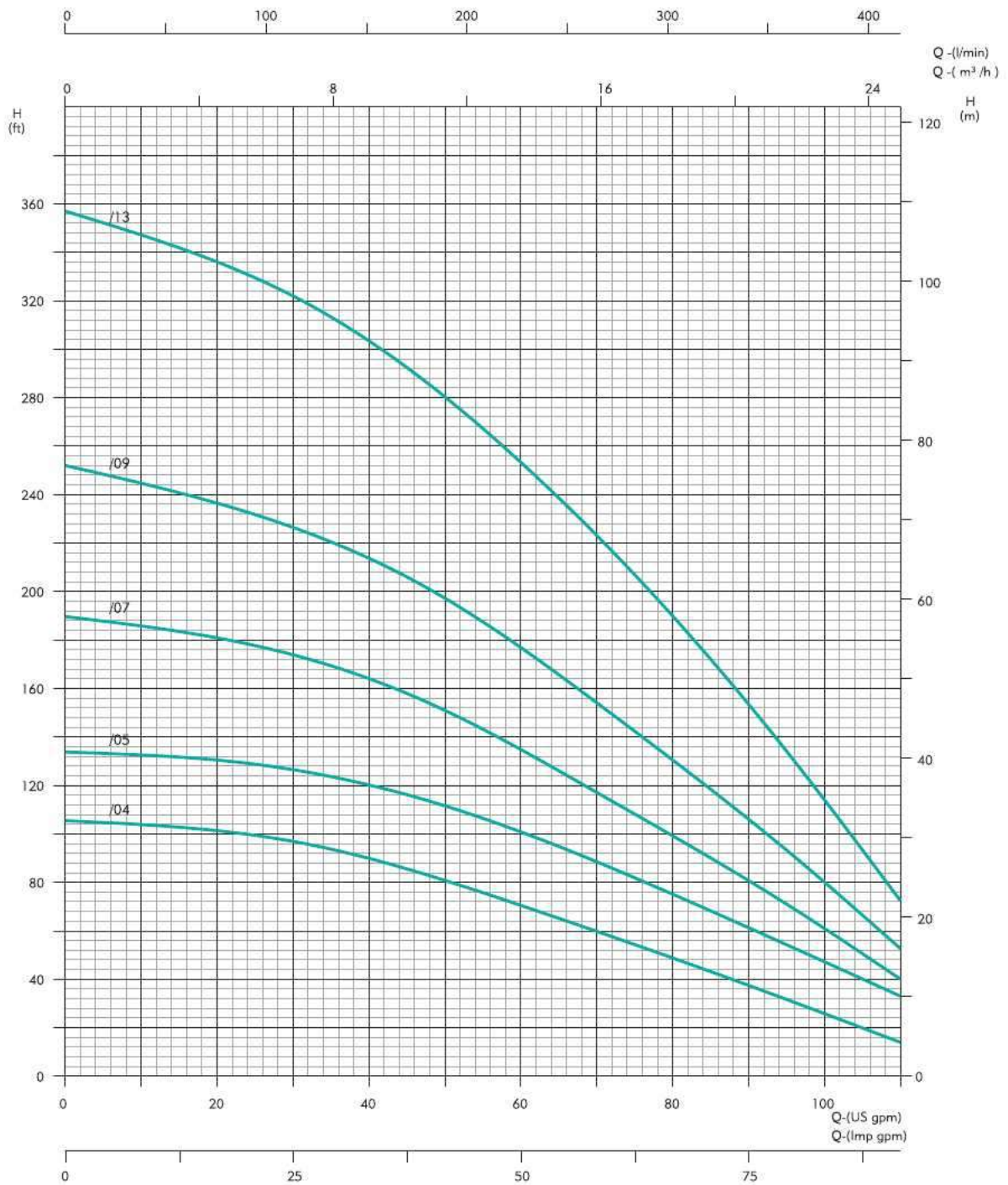
# PERFORMANCE CURVES

## TP SERIES > 4"

Model : **TP 100 - 70**

Outlet Size : **2" NPT**

**3450 rpm**



Curve tolerance according to ISO : 9906, Annex - A.

## PERFORMANCE DATA

### TP SERIES > 4"

Model : **TP 100 - 70**

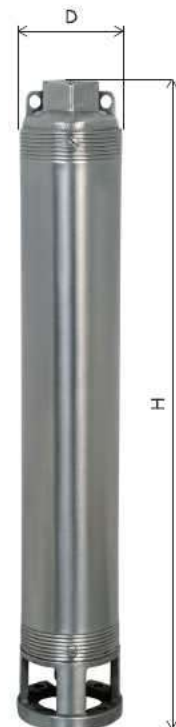
Outlet Size : **2" NPT**

**3450 rpm**

Pump Model	Power		m <sup>3</sup> /h USGPM	0	6.81	13.63	20.44	24.98
	HP	kW		0	30	60	90	110
TP100-70/04	2	1.5	TOTAL DYNAMIC HEAD IN FEET	106	97	70	38	14
TP100-70/05	3	2.2		134	126	101	62	33
TP100-70/07	4	3		190	174	137	81	40
TP100-70/09	5	3.7		252	226	177	106	54
TP100-70/13	7.5	5.5		357	322	254	154	73

### Nett Weights & Dimensions

Pump Model	Dimensions in Inches		Nett Weight (lbs)
	D	H	
TP100-70/04	3.98	21.30	6.83
TP100-70/05	3.98	24.37	8.55
TP100-70/07	3.98	30.51	11.97
TP100-70/09	3.98	36.65	15.39
TP100-70/13	3.98	48.94	22.22



Pump Height(H) & Weight(lbs) are approximate.

**These pumps can also be supplied with BSP standard discharge outlet on request.**

All performance data is based on rated input. Tolerance in accordance with ISO 9906 Annex-A.

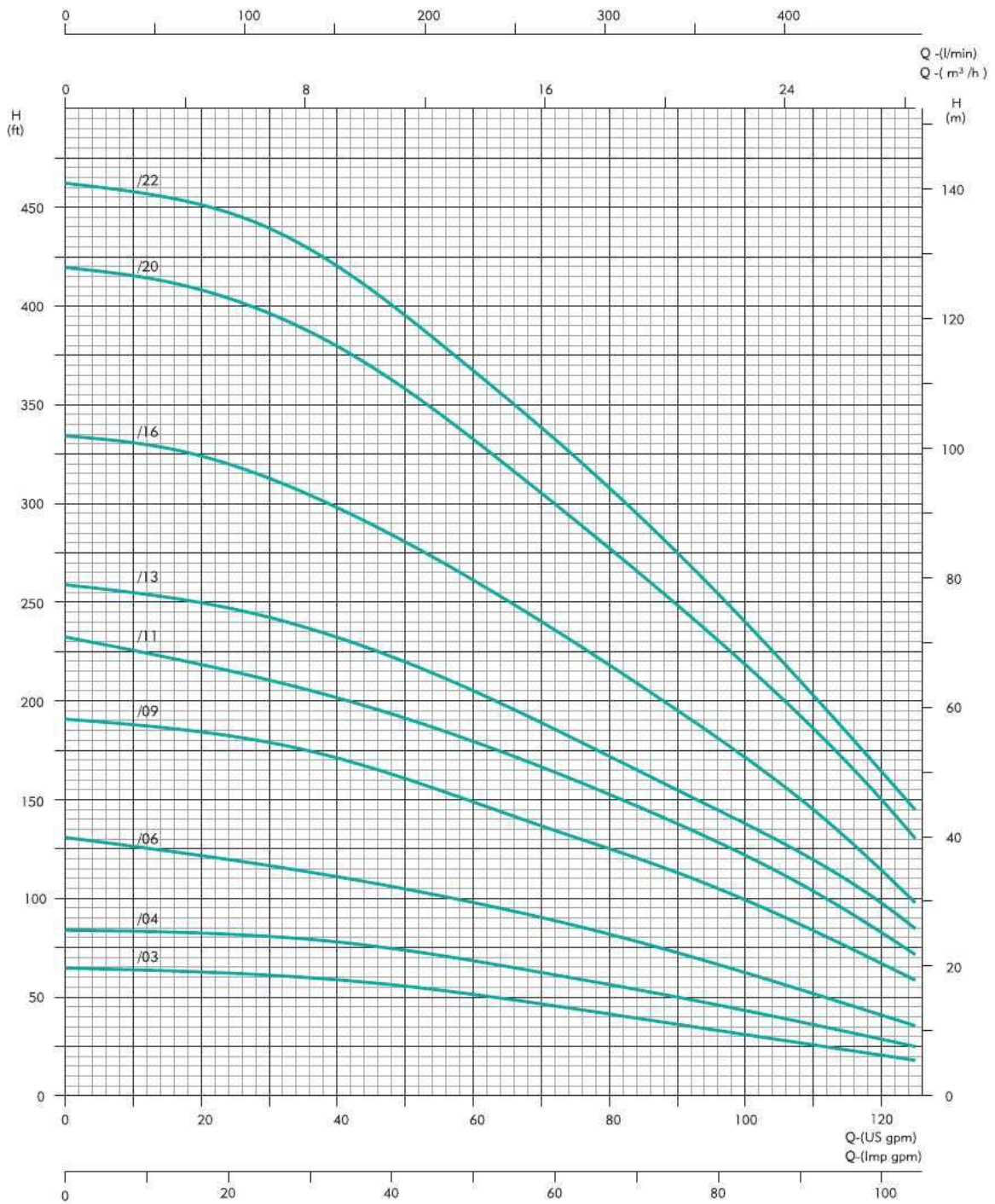
# PERFORMANCE CURVES

## TP SERIES > 4"

Model : **TP 100 - 90**

Outlet Size : **2" NPT**

**3450 rpm**



Curve tolerance according to ISO : 9906, Annex - A.

## PERFORMANCE DATA

### TP SERIES > 4"

Model : **TP 100 - 90**

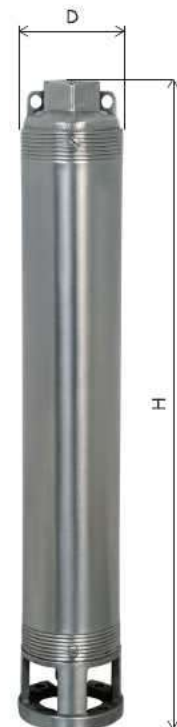
Outlet Size : **2" NPT**

**3450 rpm**

Pump Model	Power		m <sup>3</sup> /h	0	6.81	13.63	20.44	24.98	28.39
	HP	kW	USGPM	0	30	60	90	110	125
TP100-90/03	1.5	1.1	TOTAL DYNAMIC HEAD IN FEET	65	62	52	37	26	18
TP100-90/04	2	1.5		84	81	68	50	37	25
TP100-90/06	3	2.2		132	117	98	73	52	35
TP100-90/09	4	3		191	178	148	113	84	58
TP100-90/11	5	3.7		233	211	179	138	104	72
TP100-90/13	6	4.5		258	243	205	154	119	84
TP100-90/16	7.5	5.5		334	313	262	195	145	97
TP100-90/20	10	7.5		419	397	333	248	186	130
TP100-90/22	10	7.5		463	438	367	275	203	144

### Nett Weights & Dimensions

Pump Model	Dimensions in Inches		Nett Weight (lbs)
	D	H	
TP100-90/03	3.98	17.17	4.63
TP100-90/04	3.98	19.96	6.17
TP100-90/06	3.98	25.51	9.26
TP100-90/09	3.98	33.86	13.89
TP100-90/11	3.98	39.41	16.98
TP100-90/13	3.98	44.96	20.06
TP100-90/16	3.98	53.31	24.69
TP100-90/20	3.98	64.45	30.86
TP100-90/22	3.98	70.00	33.95



Pump Height(H) & Weight(lbs) are approximate.

**These pumps can also be supplied with BSP standard discharge outlet on request.**

All performance data is based on rated input. Tolerance in accordance with ISO 9906 Annex-A.

## FRICTION LOSS CHART

Permissible ranges of volume rates of flow in l/s through Galvanized Steel Pipe to limit Friction Losses to 10 Percent of the Pipe Length.

Grade →	Light	Medium	Heavy
Nominal pipe dia in mm ↓	Rate of flow in lps	Rate of flow in lps	Rate of flow in lps
40	1.90 - 2.74	1.79 - 2.67	1.59 - 2.41
50	2.74 - 5.24	2.67 - 4.95	2.41 - 4.54
65	5.24 - 9.97	4.95 - 9.80	4.54 - 9.17
80	9.97 - 15.54	9.80 - 14.97	9.17 - 14.20
100	15.54 - 30.84	14.97 - 30.0	14.20 - 28.67
125	-	30.0 - 52.50	28.67 - 51.37
150	-	52.50 - 84.18	51.37 - 82.63

Permissible ranges of volume rates of flow in l/s through RPVC Pipe to limit Friction Losses to 10 Percent of the Pipe Length.

Grade →	Class (0.25Mpa)	Class (0.4Mpa)	Class (0.6Mpa)
Nominal pipe dia in mm ↓	Rate of flow in lps	Rate of flow in lps	Rate of flow in lps
40	-	-	Up to 2.04
50	-	-	2.04 - 3.70
63	-	3.80 - 7.24	3.70 - 6.77
75	-	7.24 - 11.47	6.77 - 10.76
90	11.50 - 19.58	11.47 - 18.50	10.76 - 17.41
110	19.58 - 33.25	18.59 - 31.71	17.41 - 29.75
125	33.25 - 46.63	31.71 - 44.33	29.75 - 41.44
140	46.63 - 62.92	44.33 - 59.79	41.44 - 55.97
160	62.92 - 89.28	59.79 - 84.95	55.97 - 79.76



## FRICTION LOSS CHART

Friction loss in metres for 10 metres long new steel galvanized pipe (C=40)

Nominal Pipe Outer dia in mm / inches	25/ 1"	32/ 1¼"	40/ 1½"	50/ 2"	65/ 2½"	80/ 3"	100/ 4"	125/ 5"	150/ 6"
Volume rate of flow lps									
0.50	0.364								
1.00	1.315	0.341							
1.25	1.988	0.516	0.246						
1.60	3.140	0.814	0.388						
2.00		1.231	0.587						
2.50		1.861	0.888	0.282					
3.2		2.940	1.402	0.446	0.126				
4.0			2.120	0.674	0.190				
5.0			3.205	1.019	0.288				
8.0				2.433	0.887	0.313			
10.0				3.678	1.038	0.474	0.131		
12.5					1.570	0.716	0.198		
16					2.479	1.131	0.312	0.111	
20					3.747	1.710	0.472	0.167	
25						2.585	0.713	0.253	0.106
32						4.033	1.127	0.400	0.157
40							1.704	0.605	0.252
50							2.576	0.914	0.351
60								1.281	0.534
80								0.182	0.910
100								3.299	1.376
125									0.051

## FRICTION LOSS CHART

Friction loss in metres for 10 metres long new RPVC pipe (C= 150)

Nominal Pipe Outer dia in mm / inches	40/ 1½"	50/ 2"	63/ 2½"	75/ 3"	90/ 3½"	110/ 4¼"	125/ 5"	140/ 5½"	160/ 6¼"
Volume rate of flow lps									
0.50	0.074								
1.00	0.268								
1.25	0.405	0.131							
1.60	0.640	0.211							
2.00	0.967	0.310							
2.50	1.462	0.483	0.150						
3.20	2.309	0.762	0.250	0.106					
4.0	3.491	1.153	0.377	0.160					
5.0		1.742	0.571	0.242					
8.0		4.161	1.363	0.577	0.237				
10.0			2.060	0.873	0.358	0.133			
12.5			3.114	1.319	0.542	0.201			
16			4.919	2.084	0.856	0.317	0.172		
20				3.151	1.293	0.479	0.260		
25					1.955	0.725	0.392	0.225	0.117
32					3.089	1.145	0.620	0.355	0.184
40						1.731	0.937	0.537	0.279
50						2.617	1.416	0.812	0.421
60						3.008	1.985	1.138	0.590
80							3.382	1.939	1.006
100								2.931	1.521
125									2.299

## CABLE SELECTION CHART

1 PH, 110 V, 2/3 wire motors, maximum length of copper cable in feet.

HP	CABLE SIZE IN AMERICAN WIRE GAGE													MCM	
	14	12	10	8	6	4	3	2	1	0	00	000	0000	250	300
1/2	95	151	239	381	604	963	1213	1529	1928	2429	3065	3865	4873		
3/4	75	119	190	302	479	764	962	1213	1529	1926	2431	3065	3865		
1	68	108	172	274	434	692	872	1099	1386	1746	2203	2778	3503		
1½	54	87	138	219	347	554	697	879	1108	1397	1762	2222	2802		

1 PH, 220 V, 2/3 wire motors, maximum length of copper cable in feet.

HP	CABLE SIZE IN AMERICAN WIRE GAGE													MCM	
	14	12	10	8	6	4	3	2	1	0	00	000	0000	250	300
1/2	345	550	1390	2203	3515	4427	5584	7038	8868						
3/4	262	417	1055	1672	2668	3360	4238	5342	6731	8493					
1	203	324	819	1297	2069	2607	3288	4144	5221	6588					
1½	177	282	712	1129	1800	2268	2860	3605	4542	5731					
2	165	262	664	1052	1677	2113	2665	3359	4232	5340					
3	122	195	492	780	1244	1567	1976	2491	3139	3960					
5			313	496	791	996	1256	1583	1995	2518					

3 PH, 460 V, 3 wire motors, maximum length of copper cable in feet.

HP	CABLE SIZE IN AMERICAN WIRE GAGE													MCM Copper wire size				
	14	12	10	8	6	4	3	2	1	0	00	000	0000	250	300	350	400	500
0.5	3770	6020	9460															
0.75	2730	4350	6850															
1	2300	3670	5770	9070														
1.5	1700	3710	4270	6730														
2	1300	2070	3270	5150	8050													
3	1000	1600	2520	3970	6200													
4	748	1190	1891	3011	4771													
5	590	950	1500	2360	3700	5750												
5.5	557	887	1409	2243	3554	5669												
6	510	812	1290	2054	3255	4933												
7.5	420	680	1070	1690	2640	4100	5100	6260	7180									
10	310	500	790	1250	1960	3050	3800	4680	5750	7050								
12.5		410	651	1036	1642	2619	3299	4086	4963	6136	7593							
15		340	540	850	1340	2090	2600	3200	3930	4810	5900	7110						
20			410	650	1030	1610	2000	2470	3040	3730	4580	5530						
25				530	830	1300	1620	1990	2450	3010	3700	4470	5430					
30				430	680	1070	1330	1640	2030	2490	3060	3700	4500	5128	5850			
35					580	926	1145	1418	1753	2124	2680	3177	3835	4264	4960			
40					500	790	980	1210	1490	1830	2250	2710	3192	3720	4242			
50						640	800	980	1210	1480	1810	2190	2650	2998	3409	3830	4171	4842
60						540	670	830	1020	1250	1540	1850	2240	2532	2881	3230	3529	4188
75								680	840	1030	1260	1520	1850	2088	2390	2688	2940	3428
85									745	919	1136	1371	1652	1884	2127	2291	2491	2909
100									620	760	940	1130	1380	1550	1782	2000	2182	2540
110											696	877	1048	1107	1364	1447	1531	1860
125											740	890	1000	1209	1381	1549	1691	1949
150												760	920	1040	1182	1330	1452	1680
175													810	921	1052	1181	1292	1501
200														802	910	1018	1122	1300
225															764	886	984	1132
250																755	886	984
300																623	755	837

The given cable lengths are the maximum one from POWER TO MOTOR, Exceeding the lengths mentioned will void warranty.

## CABLE SELECTION CHART

3Ph, 460V, 3 WIRE (DOL) MOTORS, MAXIMUM LENGTH OF COPPER CABLE IN FEET

HP	CABLE SIZE IN AMERICAN WIRE GAGE													MCM Copper wire size					
	14	12	10	8	6	4	3	2	1	0	00	000	0000	250	300	350	400	500	
0.5	880	1420	2250	3450	5550	8620													
0.75	743	1182	1878	2990	4739	7559													
1	681	1083	1720	2739	4340	6923													
1.5	630	1020	1600	2530	3960	6150	7650	9390											
2	460	750	1180	1870	2940	4570	5700	7020	8620										
3	368	585	930	1480	2345	3741	4713	5943	7491										
4	310	510	810	1270	2010	3130	3900	4800	5800	7210	8850								
5	230	380	610	970	1540	2410	3000	3700	4560	5590	6870	8290							
5.5	190	310	490	790	1240	1950	2430	2980	3670	4510	5550	6700							
6		250	410	640	1020	1600	1990	2460	3040	3730	4590	5550							
7.5			335	533	844	1347	1697	2140	2697	3398	4288	5002							
10			300	480	750	1180	1470	1810	2230	2740	3370	4080							
12.5				370	590	960	1200	1470	1810	2220	2710	3280							
15				320	500	810	1000	1240	1530	1870	2310	2770							
20					420	660	810	1020	1260	1540	1890	2280							
25						577	727	916	1155	1341	1691	2133	8140						
30						500	610	760	930	1140	1410	1690	6750	7690	8730				
35							507	640	806	1016	1282	1478	5965	6822	7259				
40							470	590	730	880	1110	1330	4930	5590	6370				
50								510	630	770	950	1140	3970	4510	5130	5740	6270	7270	
60									550	680	830	1000	3360	3810	4330	4860	5310	6510	
75										590	730	880	2770	3150	3600	4050	4420	5160	
85											623	755	2459	2691	3272	3563	3771	4909	
100												591	2070	2340	2680	3010	3280	3820	
110													1863	2039	2480	2893	3061	3307	
125													1500	1830	2080	2340	2550	2940	
150													1380	1570	1790	2000	2180	2530	
175													1220	1390	1580	1780	1950	2270	
200													1070	1210	1380	1550	1690	1970	
225													919	1050	1247	1411	1558	1837	
250													820	951	1116	1280	1427	1706	
300													722	853	984	1116	1296	1575	

## CONVERSION CHART

### FLOW RATE

litre per second l/s	litre per minute l/min	cubic meter per hour m <sup>3</sup> /h	cubic foot per hour ft <sup>3</sup> /h	cubic foot per minute ft <sup>3</sup> /min	Imp.gallon per minute Imp.gal./min	US gallon per minute Us gal./min	Us barrel per day Is barrel/d (Petroleum)
1	60	3.6	127.133	2.1189	13.2	15.85	543.439
0.017	1	0.06	2.1189	0.0353	0.22	0.264	9.057
0.278	16.667	1	35.3147	0.5886	3.666	4.403	150.955
0.008	0.472	0.0283	1	0.0167	0.104	0.125	4.275
0.472	28.317	1.6990	60	1	6.229	7.480	256.475
0.076	4.546	0.2728	9.6326	0.1605	1	1.201	41.175
0.063	3.785	0.2271	8.0209	0.1337	0.833	1	34.286
0.002	0.110	0.0066	0.2339	0.0039	0.024	0.029	1

### LIQUID

Cubic meter m <sup>3</sup>	litre l	Milli litre ml	Imp. gallon Imp. Gal	US gallon US gal	cubic foot ft <sup>3</sup>
1	1000	1 x 10 <sup>6</sup>	220	264.2	35.3147
0.001	1	1000	0.22	0.2642	0.0353
1 x 10 <sup>-6</sup>	0.001	1	2.2 x 10 <sup>-4</sup>	2.642 x 10 <sup>-4</sup>	3.53 x 10 <sup>-9</sup>
0.00455	4.546	4546	1	1.201	0.1605
0.00378	3.785	3785	0.8327	1	0.1337
0.0283	28.317	28317	6.2288	7.4805	1

### LIQUID HEAD AND PRESSURE

newton per square meter N/m <sup>2</sup> (Pa)	kilo pascal kPa	bar	kilogram force per square centimeter Kgf/cm <sup>2</sup>	pound force per square inch psi	foot for water ft H <sub>2</sub> O	meter of water m H <sub>2</sub> O	millimeter of mercury mm Hg	inch of mercury in Hg
1	0.001	1 x 10 <sup>-5</sup>	1.02 x 10 <sup>-5</sup>	1.45 x 10 <sup>-4</sup>	3.35 x 10 <sup>-4</sup>	1.02 x 10 <sup>-4</sup>	0.0075	2.95 x 10 <sup>-4</sup>
1000	1	0.01	0.0102	0.145	0.335	0.102	7.5	0.295
1 x 10 <sup>5</sup>	100	1	1.02	14.5	33.52	10.2	750.1	29.53
98,067	98.07	0.981	1	14.22	32.81	10	735.6	28.96
6895	6.895	0.069	0.0703	1	2.31	0.703	51.72	2.036
2984	2.984	0.03	0.0305	0.433	1	0.305	22.42	0.882
9789	9.789	0.098	0.1	1.42	3.28	1	73.42	2.891
133.3	0.133	0.0013	0.0014	0.019	0.045	0.014	1	0.039
3386	3.386	0.0338	0.0345	0.491	1.133	0.0345	25.4	1

### LENGTH

millimeter mm	centimeter cm	meter m	inch in	foot ft	yard yd
1	0.1	0.001	0.0394	0.0033	0.0011
10	1	0.01	0.3937	0.0328	0.0109
1000	100	1	39.3701	3.2808	1.0936
25.4	2.54	0.0254	1	0.0833	0.0278
304.8	30.48	0.3048	12	1	0.3333
914.4	91.44	0.9144	36	3	1

1 Kilometer = 1000 metres = 0.62137 miles 1 mile = 1609.37 metres = 1.60934 kilometers

### MASS

kilogram kg	pound lb	hundred weight (cwt)	tonne t	ton long tn	short ton sh tn
1	2.205	0.0197	0.001	9.84 x 10 <sup>-4</sup>	0.0011
0.454	1	0.0089	4.54 x 10 <sup>-4</sup>	4.46 x 10 <sup>-4</sup>	5.0 x 10 <sup>-4</sup>
50.802	112	1	0.0508	0.05	0.056
1000	2204.6	19.684	1	0.9842	1.1023
1016	2240	20	1.0161	1	1.102
907.2	2000	17.857	0.9072	0.8929	1

### TEMPERATURE

To Convert From	To	Use Formula
Temperature Celsius, tc	Temperature Kelvin, tk	K = tc + 273.15
Temperature Fahrenheit, tf	Temperature Kelvin, tk	K = (tf + 459.67 / 1.8)
Temperature Celsius, tc	Temperature Fahrenheit, tf	F = 1.8 tc + 32
Temperature Fahrenheit, tf	Temperature Celsius, tc	C = (tf - 32) / 1.8
Temperature Kelvin, tk	Temperature Celsius, tc	C = tk - 273.15
Temperature Kelvin, tk	Temperature Fahrenheit, tf	F = 1.8tk - 459.67







## T H E P O W E R B E H I N D T H E F O R C E

Naargo Industries Private Limited, one of the leading manufacturers of latest state of art, large range of pumps and motors, is managed by veterans who are in the pump industry for almost half a century. The products are employed in various applications like irrigation, domestic, civil construction, de-watering etc; The Company has a strong distribution network in India for sales & service and a strong global presence.

Quality is the key factor in Naargo's products. The expansive infrastructure and environment accredited with ISO 9001 quality certification, latest engineering softwares, high-tech machinery, futuristic pumping technology and high caliber workforce facilitate the production of flawless and efficient products on par with international standards under the brand name of "Tormac". The well equipped R & D wing stays alive to the changing global trends and comes out with viable solutions for innovative product development and upgradation.

The Products currently available include Stainless Steel Submersible Pumps, 4" Thermoplastic Submersible Pumps, 6" & 8" Cast Iron Submersible Pumps, Submersible Motors and Controls, Centrifugal Pumps, Inline Booster Pumps, Jet Self-priming Pumps and Peripheral Pumps.

The power, performance and endurance of the products backed by the uncompromising teamwork and value systems will certainly propel the company's growth towards new horizons in the pump industry.

IC-SPS-A/18-E3

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**Tormac**  
P U M P S

\* Tormak has pointed as Tormac.