

THE TOUGH ONE

Rugged construction coupled with Optimal design parameter make the borehole submersible pump a star performer.



SUBMERSIBLE PUMPS **60 Hz**

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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

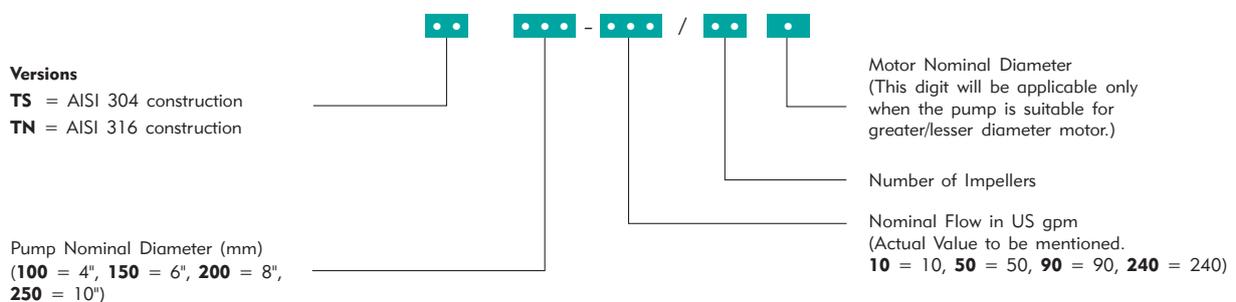
Non-aggressive, non explosive, Pure, cold, Fresh water without abrasives particles having the following characteristics.

a) Temperature	95°F (35°C) (max.)
b) Chlorine ion density	500 ppm (max.)
c) Allowable solids	100 ppm (max.)
d) Specific gravity	1.004 (max.)
e) Hardness (Drinking Water)	300 ppm (max.)
f) Kinematic Viscosity	1mm ² /sec (1cSt) (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			
		4"	6"	8"	10"
Nominal Diameter					
Power Range		0.33 HP - 20 HP	1.5 HP - 100 HP	7.5 HP - 125 HP	15 HP - 300 HP
Speed		3450 rpm	3450 rpm	3450 rpm	3450 rpm
Flow Range	USGPM	1.5 - 90	21 - 605	150 - 630	200 - 1460
	m ³ /h	0.3 - 20	5 - 139	34 - 144	46 - 335
Total Head Range	ft	20 - 3366	10 - 2184	20 - 1400	25 - 1454
	m	6 - 1026	3 - 665	6 - 427	8 - 443
Outlet size		1", 1 1/4", 1 1/2" & 2"	2", 3", & 4"	5"	6"
Max. Operating Pressure		961 PSI (67 bar)	909 PSI (64 bar)	506 PSI (42.8 bar)	506 PSI (42.8 bar)
Sand handling capacity		50g/m ³	50g/m ³	50g/m ³	50g/m ³
Shaft Coupling		Splines	Splines	Splines	* Keyway / Splines

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

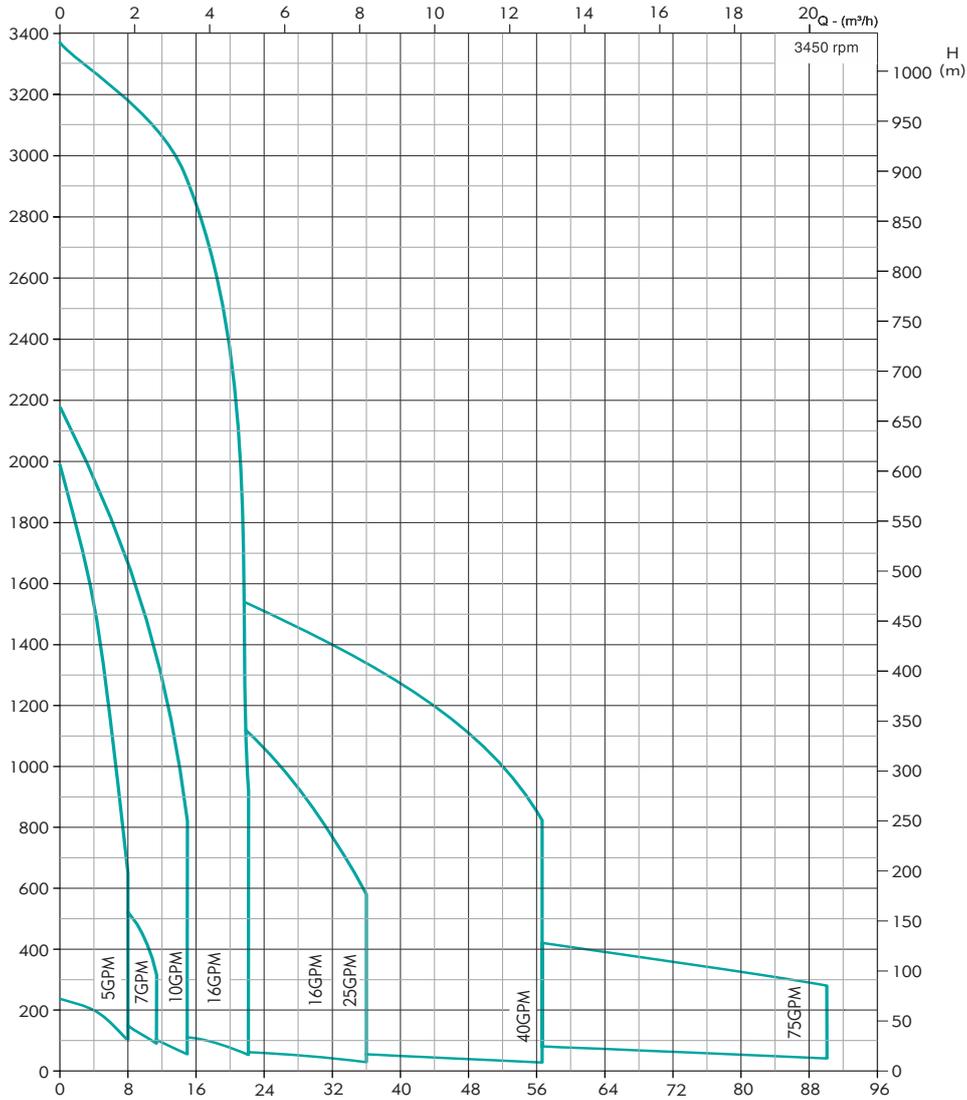
Model Designation BOREHOLE SUBMERSIBLE PUMPS



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

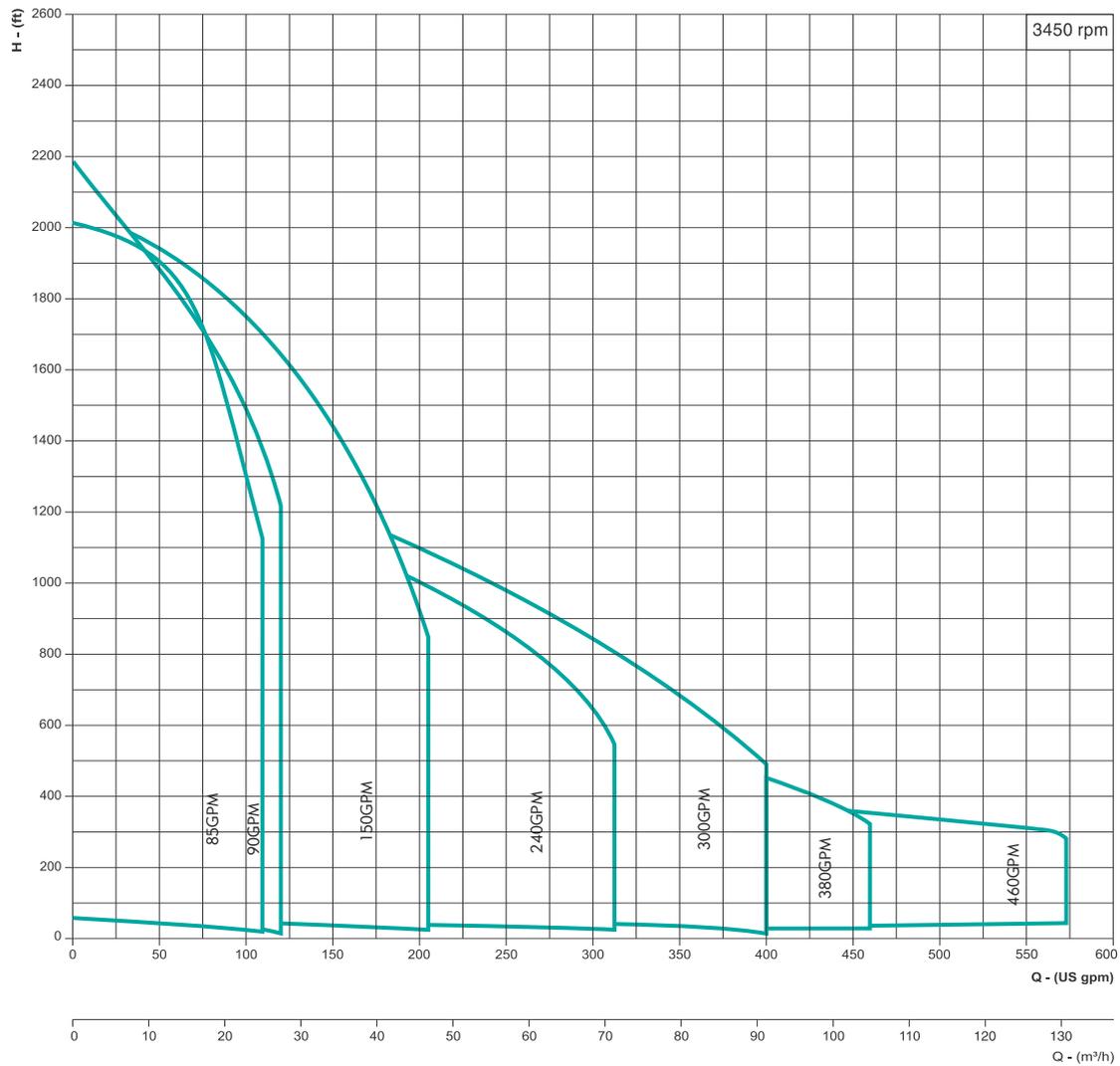


Performance Curve Conditions

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

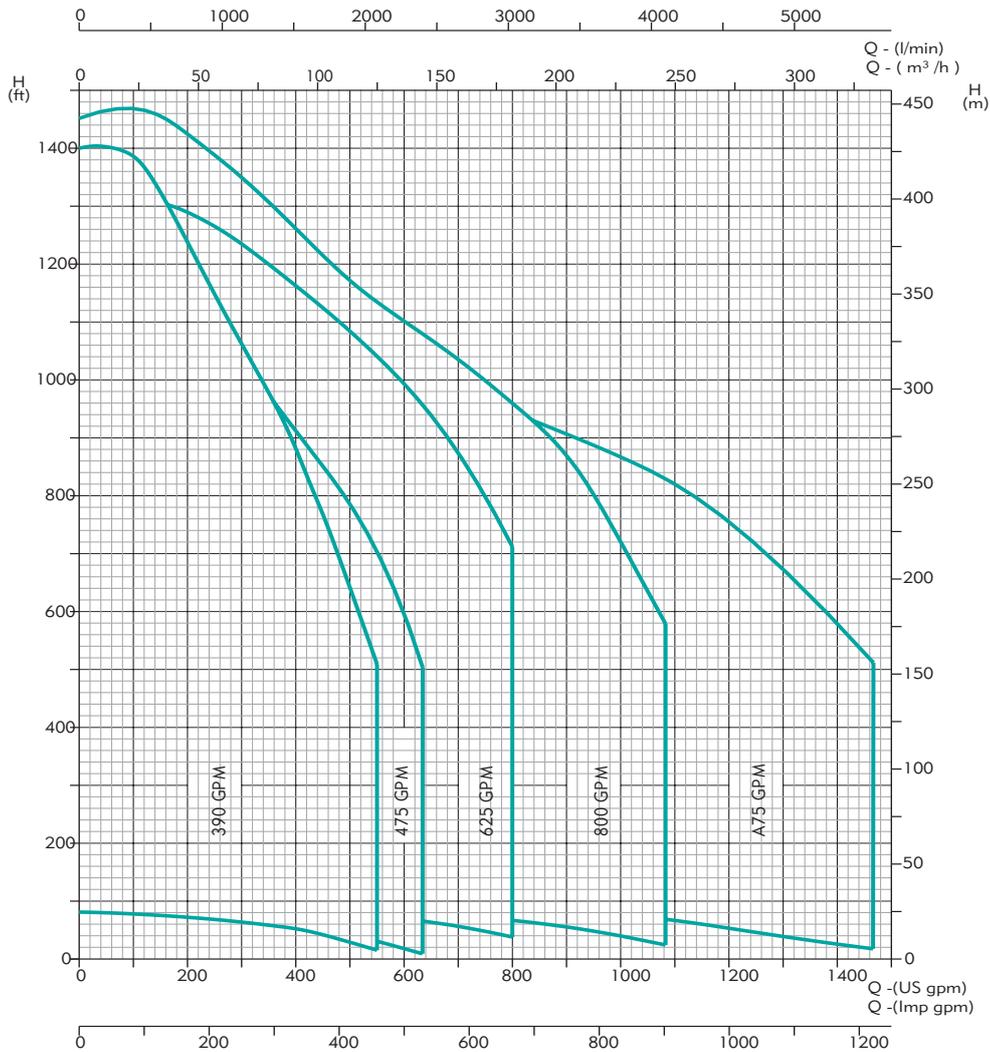


Performance Curve Conditions

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

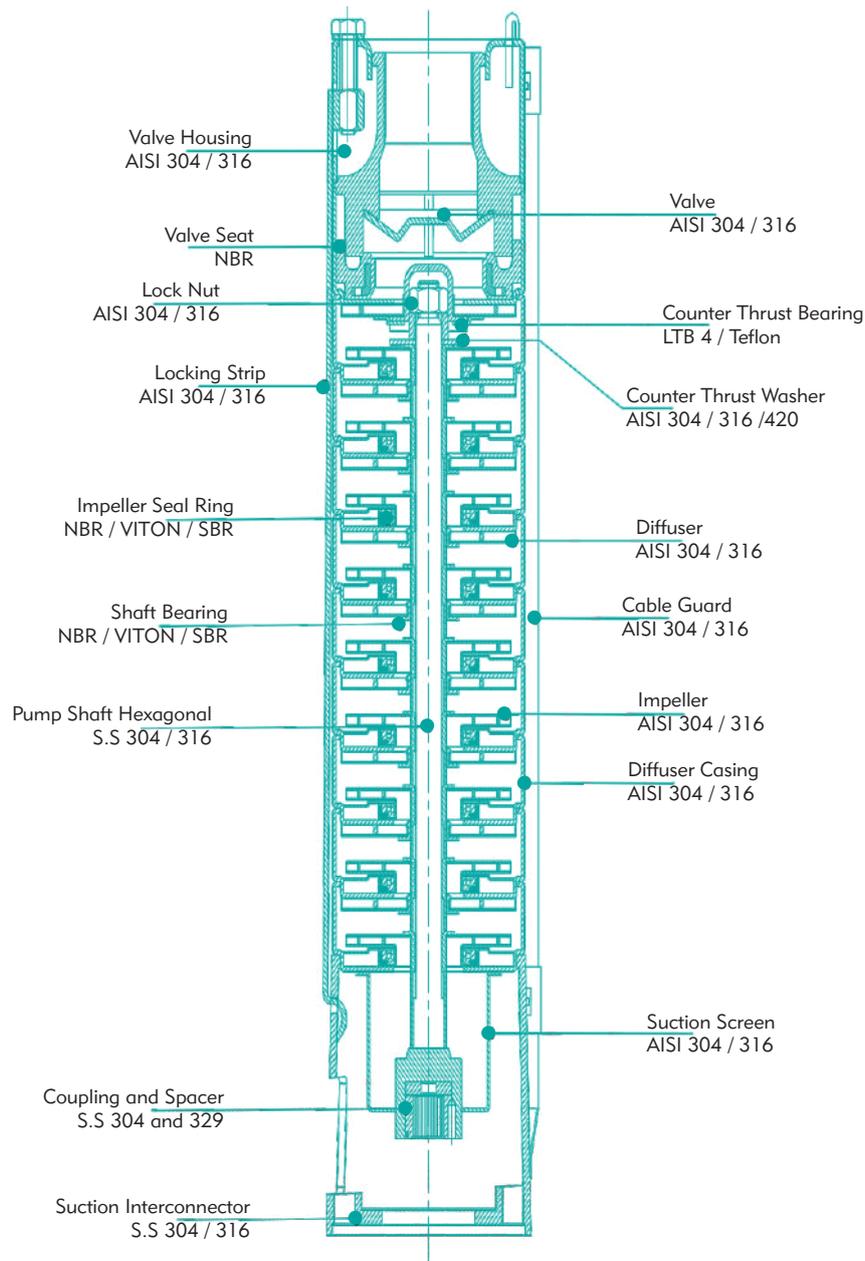
a.	The Performance curves show performance of the pump at rated speed and voltage and @ 10 feet minimum submergence. The speed of motor is approximately : 3450 rpm	e.	Q/H : The curves are inclusive of check valve and suction inter-connector losses at the actual speed.
b.	The measurements were made with 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

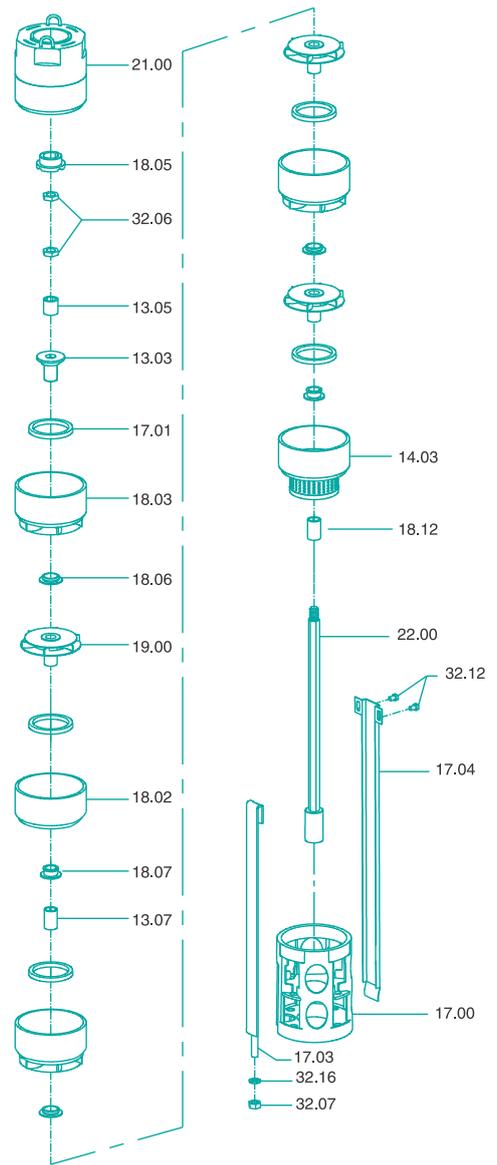
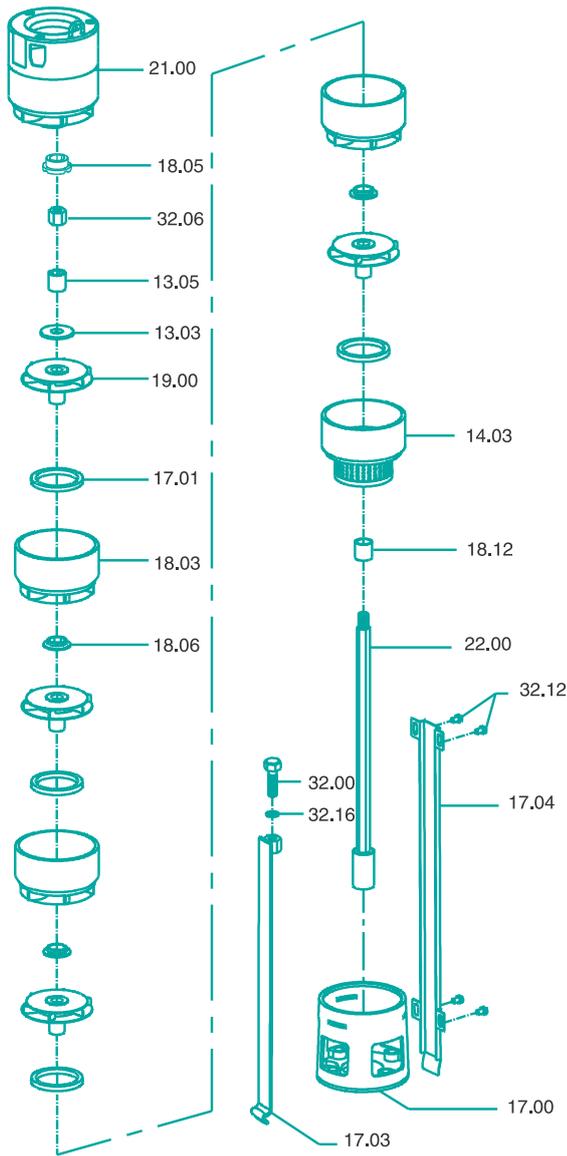


Pump Version - TS = AISI 304 Construction
 Pump Version - TN = AISI 316 Construction
 NEMA mounting dimensions.

EXPLODED VIEW

5 - 16 gpm (Upto 29 Stage)

5 - 16 gpm (30 & Above Stages)



Part No.	Part Name	Part No.	Part Name
13.03	Upthrust Washer	18.06	Bush - Diffuser Chamber
13.05	Sleeve	18.12	Spacer Sleeve
14.03	Chamber-Inlet Screen	19.00	Impeller
17.00	Suction Inter-connector	21.00	Check Valve Housing
17.01	Wearing ring	22.00	Pump Shaft
17.03	Locking Straps	32.00	Bolt
17.04	Cable Guard	32.06	Lock Nut
18.03	Diffuser Chamber	32.12	Screw
18.05	Bush - CT Pad	32.16	Washer

Part No.	Part Name	Part No.	Part Name
13.03	Upthrust Sleeve	18.06	Bush - Diffuser Chamber
13.07	Sleeve - Bracket	18.07	Bush - Bracket
13.05	Sleeve	18.12	Spacer Sleeve
14.03	Chamber-Inlet Screen	19.00	Impeller
17.00	Suction Inter-connector	21.00	Check Valve Housing
17.01	Wearing ring	22.00	Pump Shaft
17.03	Locking Straps	32.06	Lock Nut
17.04	Cable Guard	32.07	Nut
18.02	Chamber - Bracket	32.12	Screw
18.03	Diffuser Chamber	32.16	Washer
18.05	Bush - CT Pad		

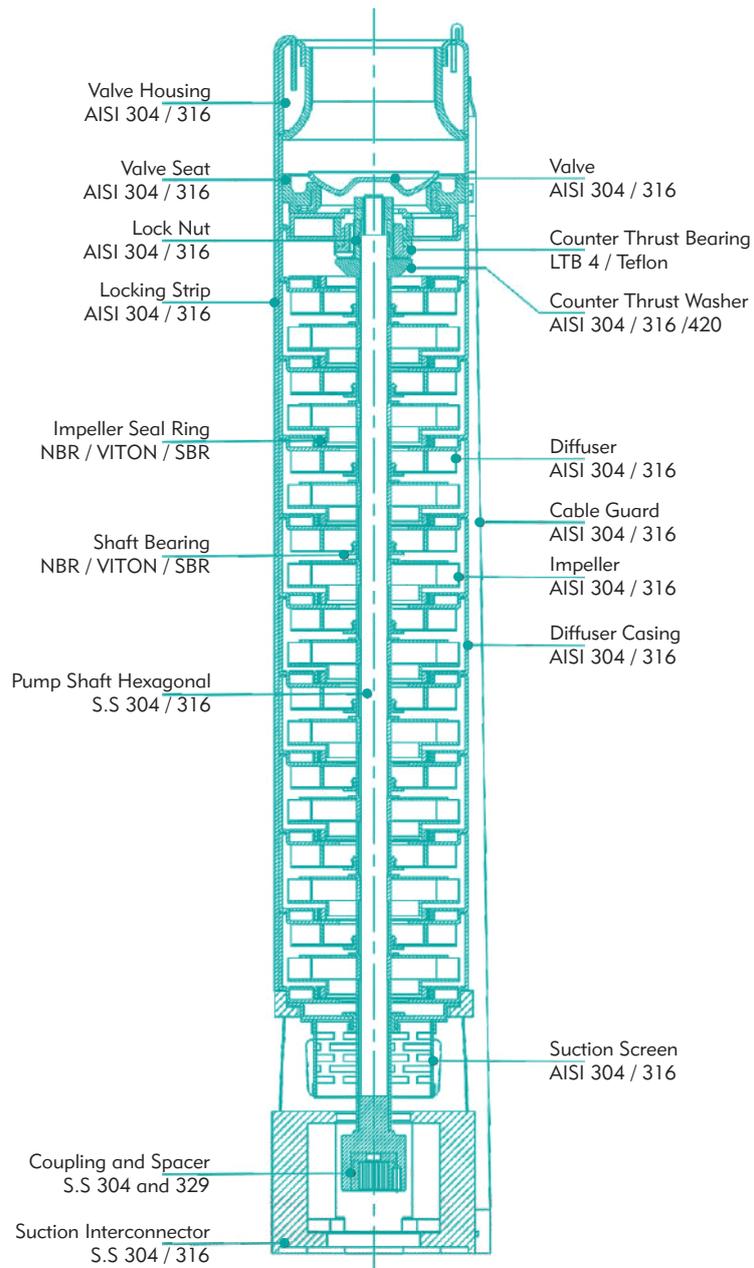
All mounting dimensions are in accordance with NEMA Standards

In view of continuous developments, the given information / descriptions / specifications / illustrations are subject to change without notice.

CONSTRUCTIONAL DATA

16gpm and 40gpm Higher Stage Assembly

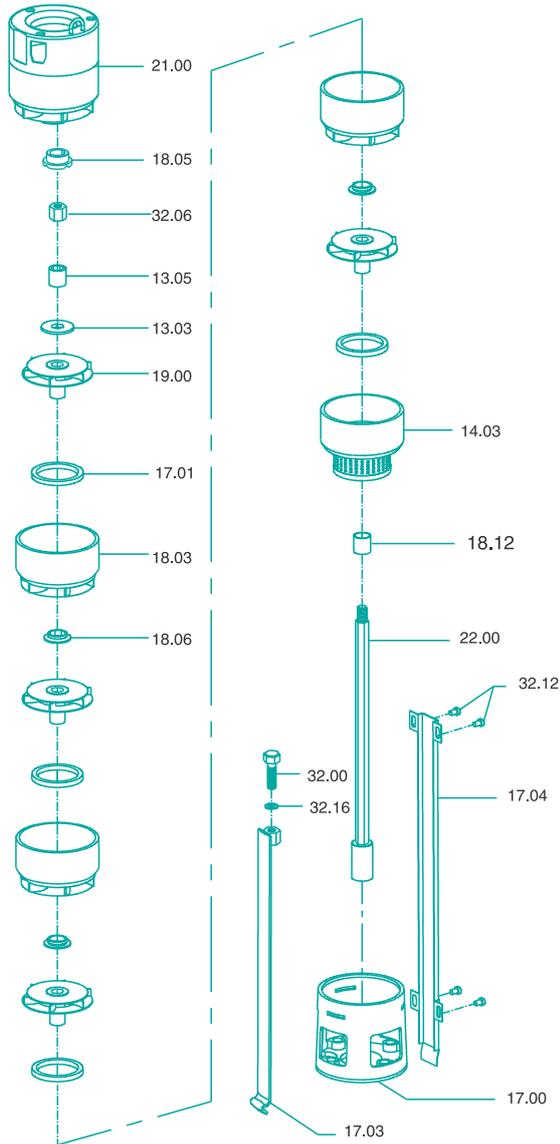
4" > TS Series > Version TS / TN > Constructional Data of Radial Flow Pump



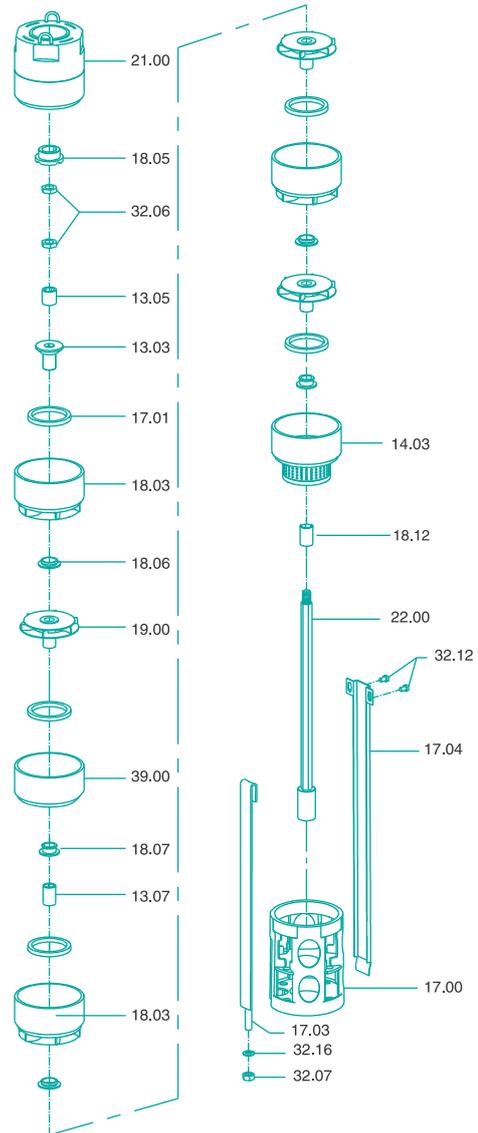
Pump Version - TS = AISI 304 Construction
 Pump Version - TN = AISI 316 Construction
 NEMA mounting dimensions.

EXPLODED VIEW

25 gpm (Upto 25 Stages)



25 gpm (26 & Above Stages)



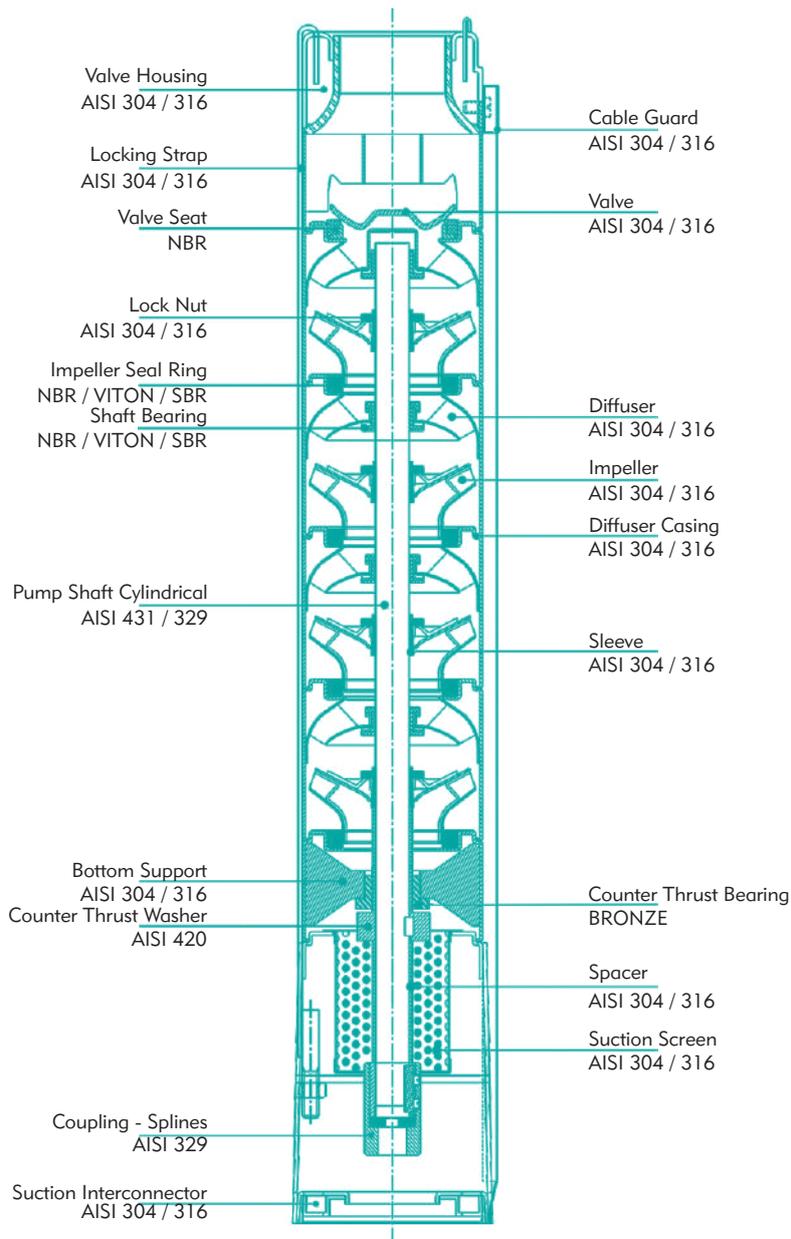
Part No.	Part Name	Part No.	Part Name
13.03	Upthrust Washer	18.06	Bush - Diffuser Chamber
13.05	Sleeve	18.12	Spacer Sleeve
14.03	Chamber-Inlet Screen	19.00	Impeller
17.00	Suction Inter-connector	21.00	Check Valve Housing
17.01	Wearing ring	22.00	Pump Shaft
17.03	Locking Straps	32.00	Bolt
17.04	Cable Guard	32.06	Lock Nut
18.03	Diffuser Chamber	32.12	Screw
18.05	Bush - CT Pad	32.16	Washer

Part No.	Part Name	Part No.	Part Name
13.05	Sleeve	18.07	Bush - Bracket
13.03	Upthrust Washer	18.12	Spacer Sleeve
13.07	Sleeve-Bracket	19.00	Impeller
14.03	Chamber-Inlet Screen	21.00	Check Valve Housing
17.00	Suction Inter-connector	22.00	Pump Shaft
17.01	Wearing ring	32.06	Lock Nut
17.03	Locking Straps	32.07	Nut
17.04	Cable Guard	32.12	Screw
18.03	Diffuser Chamber	32.16	Washer
18.05	Bush - CT Pad	39.00	Chamber - Bracket
18.06	Bush - Diffuser Chamber		

CONSTRUCTIONAL DATA

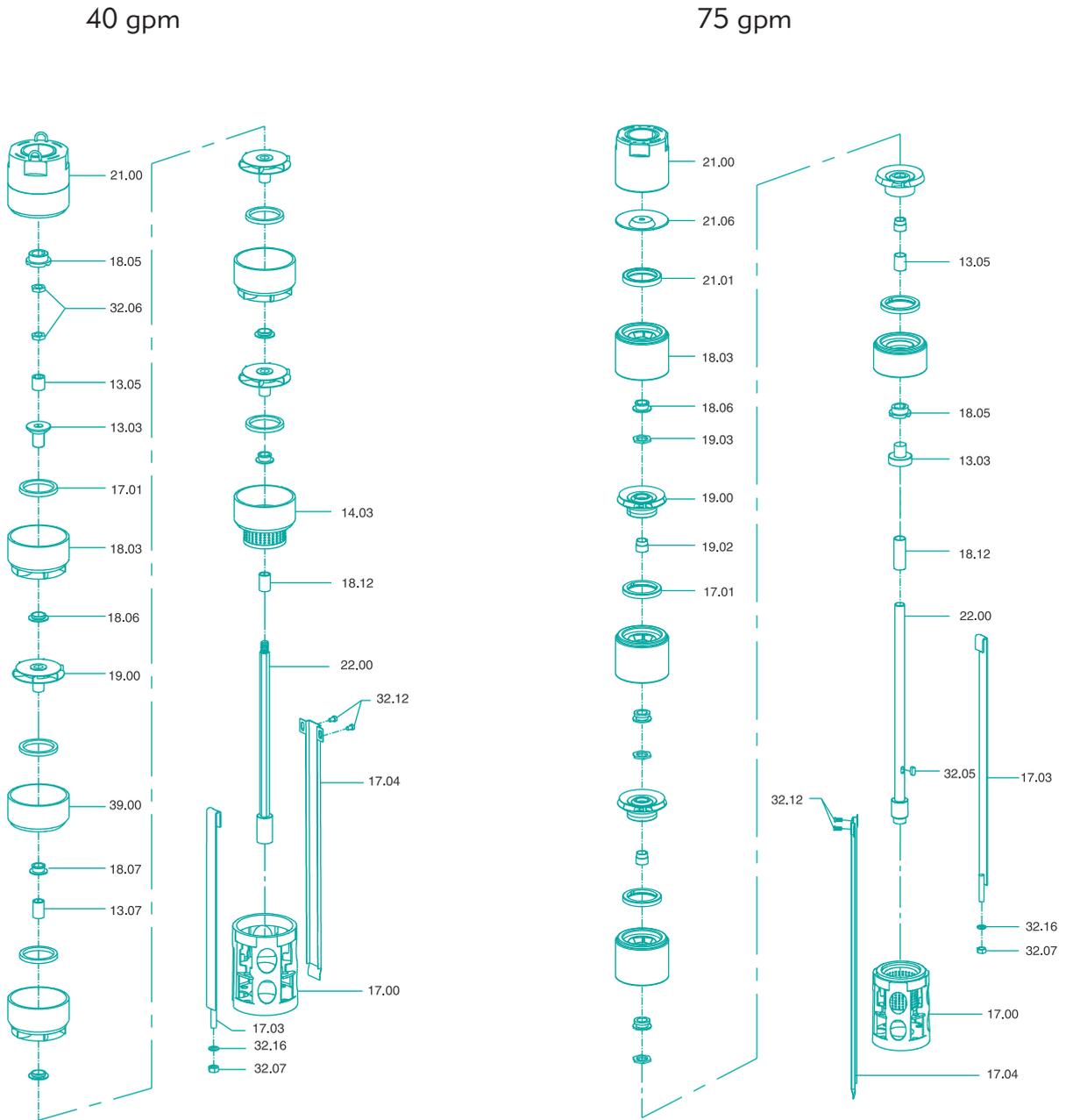
75gpm

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.

EXPLODED VIEW



Part No.	Part Name
13.03	Upthrust Sleeve
13.05	Sleeve
13.07	Sleeve-Bracket
14.03	Chamber-Inlet Screen
17.00	Suction Inter-connector
17.01	Wear ring
17.03	Locking Straps
17.04	Cable Guard
18.03	Diffuser Chamber
18.05	Bush - CT Pad
18.06	Bush - Diffuser Chamber

Part No.	Part Name
18.07	Bush - Bracket
18.12	Spacer Sleeve
19.00	Impeller
21.00	Check Valve Housing
22.00	Pump Shaft
39.00	Chamber - Bracket
32.06	Lock Nut
32.07	Nut
32.12	Screw
32.16	Washer

Part No.	Part Name
13.03	Upthrust Sleeve
13.05	Sleeve
17.00	Suction Inter-connector
17.01	Wear ring
17.03	Locking Straps
17.04	Cable Guard
18.03	Diffuser Chamber
18.05	Bush - CT Pad
18.06	Bush - Diffuser Chamber
18.12	Spacer Sleeve
19.00	Impeller

Part No.	Part Name
19.02	Split Cone
19.03	Split Cone Nut
21.00	Check Valve Housing
21.01	Check Valve Seat
21.06	Check Valve Disc
22.00	Pump Shaft
32.05	Key
32.07	Nut
32.12	Screw
32.16	Washer

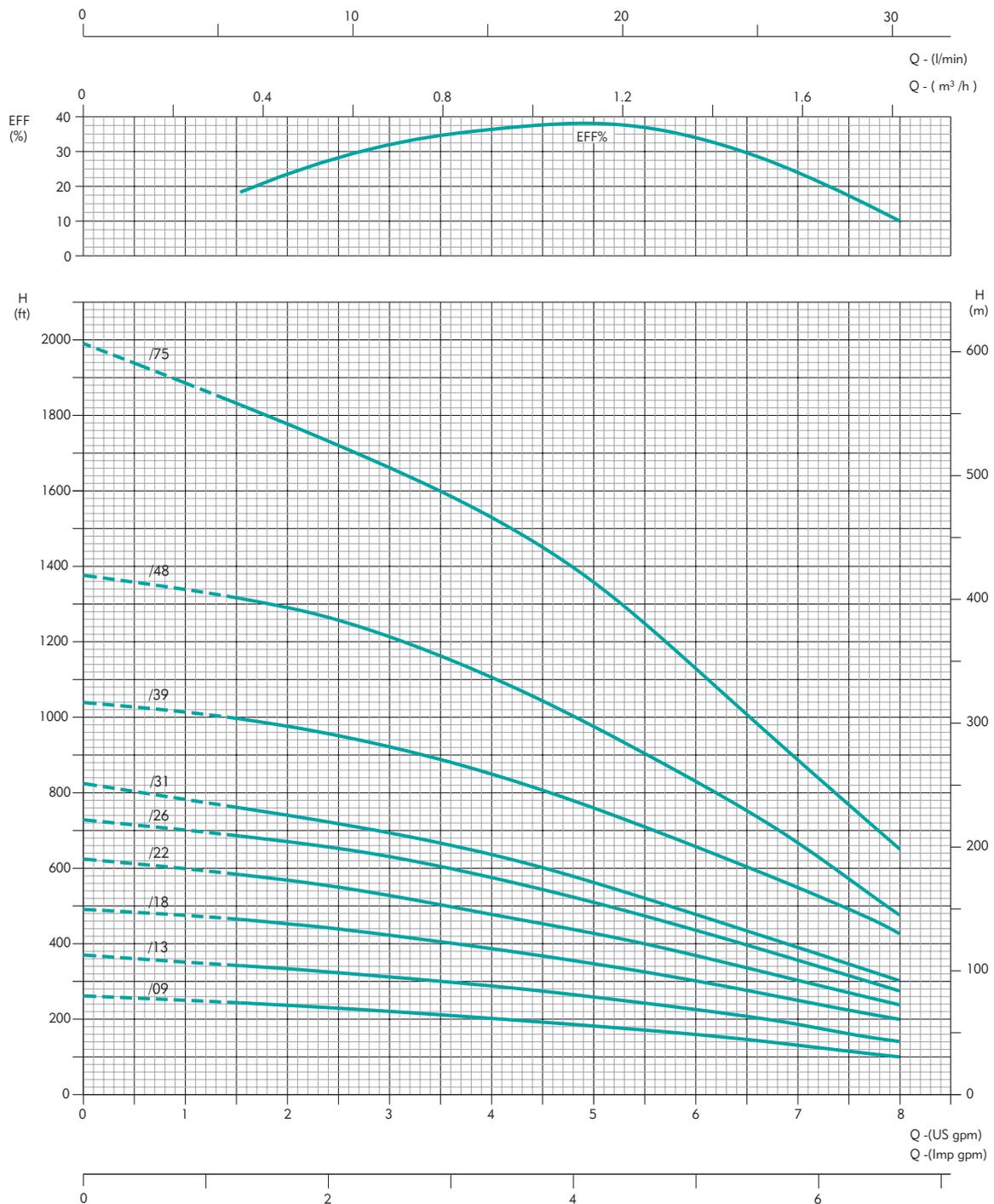
PERFORMANCE CURVES

TS / TN SERIES > 4" > 5 GPM

Model : **TS 100 - 5**

Outlet Size : **1" NPT**

3450 rpm



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

PERFORMANCE DATA

TS / TN SERIES > 4" > 5 GPM

Model : **TS 100 - 5**

Outlet Size : **1" NPT**

3450 rpm

Pump Model	Power		m ³ /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 METER	79	72	61	49	30
TS100-5/13	0.5	0.37		113	102	88	69	43
TS100-5/18	0.75	0.55		149	137	117	91	61
TS100-5/22	1	0.75		190	174	146	113	73
TS100-5/26	1.5	1.1		222	204	175	134	84
TS100-5/31	1.5	1.1		251	226	194	145	91
TS100-5/39	2	1.5		317	297	259	199	130
TS100-5/48	4	3		419	392	337	254	145
TS100-5/75	5	3.75		607	538	468	344	198

* 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	3.82	14.06	8
TS100-5/13	3.82	17.52	10
TS100-5/18	3.82	21.85	14
TS100-5/22	3.82	25.31	17
TS100-5/26	3.82	28.78	20
TS100-5/31	3.82	38.35	23
TS100-5/39	3.82	45.91	33
TS100-5/48	3.82	55.35	40
TS100-5/75	3.82	87.90	71



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.

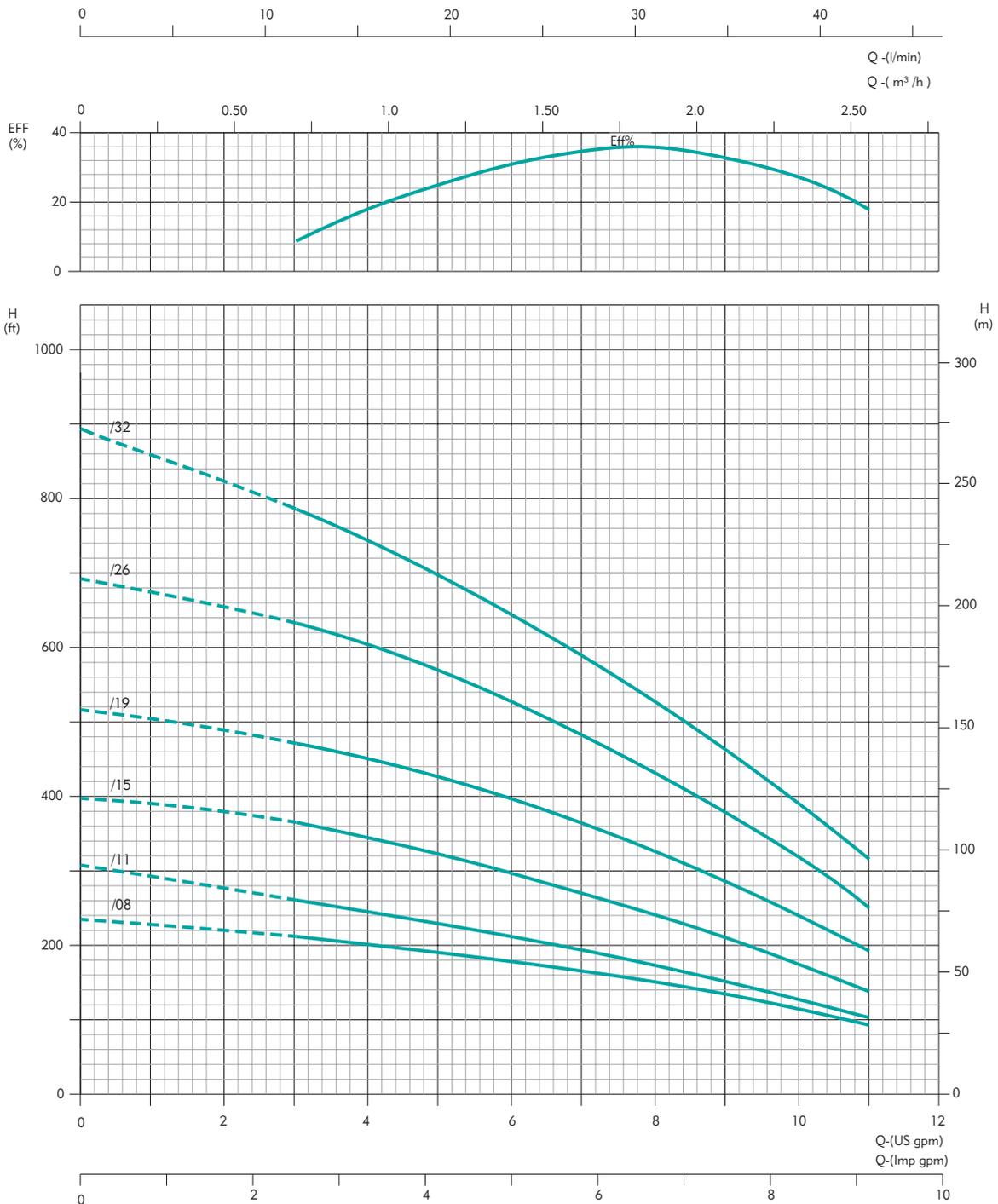
PERFORMANCE CURVES

TS / TN SERIES > 4" > 7 GPM

Model : **TS 100 - 7**

Outlet Size : **1" NPT**

3450 rpm



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

PERFORMANCE DATA

TS / TN SERIES > 4" > 7 GPM

Model : **TS 100 - 7**

Outlet Size : **1" NPT**

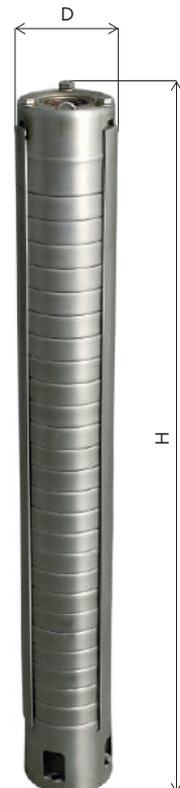
3450 rpm

Pump Model	Power		m ³ /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 METER	72	65	54	41	27
TS100-7/11	0.5	0.37		94	79	65	46	31
TS100-7/15	0.75	0.55		121	111	91	64	42
TS100-7/19	1	0.75		158	144	121	87	59
TS100-7/26	1.5	1.1		210	193	160	115	76
TS100-7/32	2	1.5		271	240	197	141	98

* 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	13.19	8
TS100-7/11	3.82	15.79	9
TS100-7/15	3.82	19.25	12
TS100-7/19	3.82	22.72	14
TS100-7/26	3.82	28.78	20
TS100-7/32	3.82	39.29	24



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.

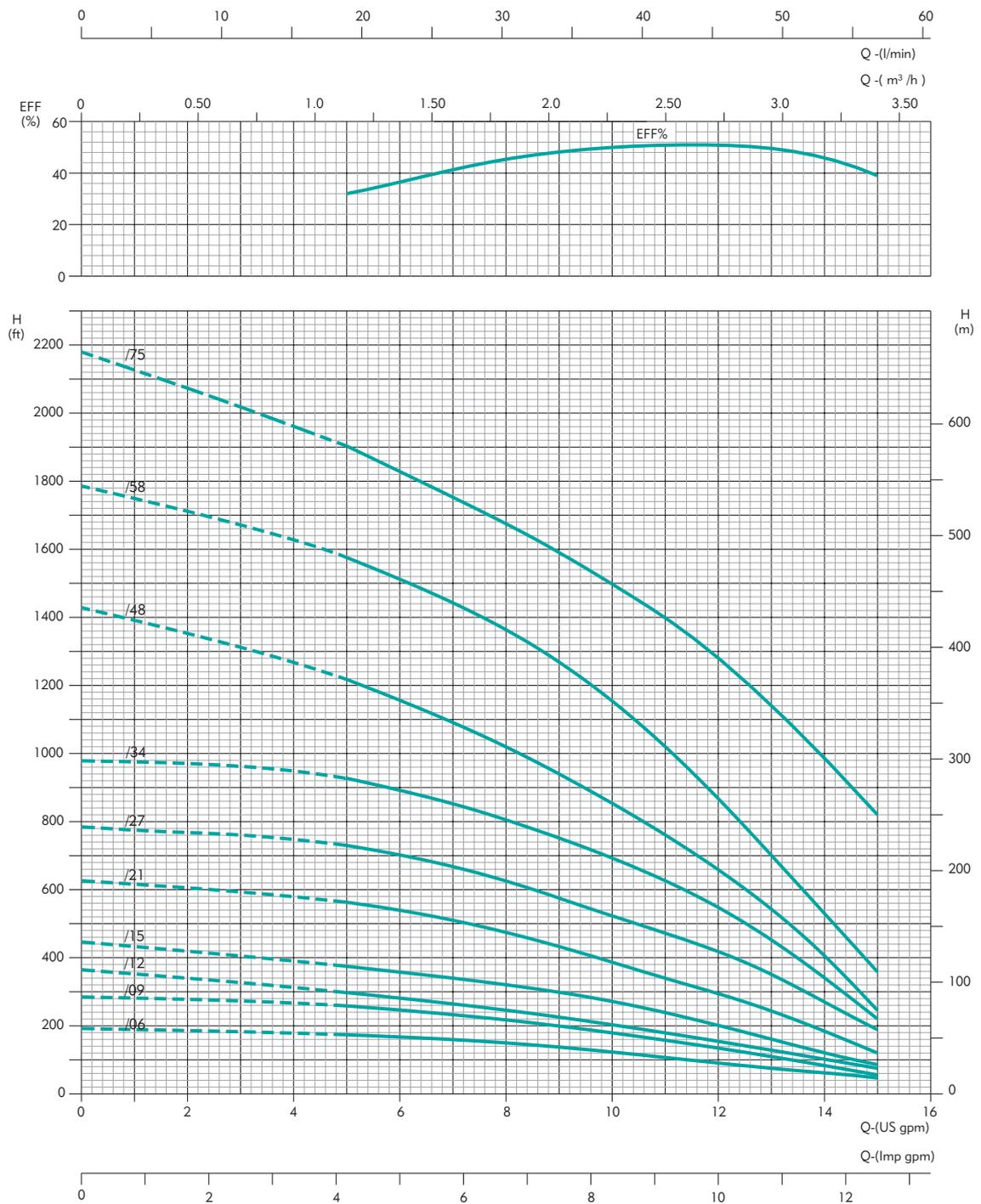
PERFORMANCE CURVES

TS / TN SERIES > 4" > 10 GPM

Model : **TS 100 - 10**

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" > 10 GPM

Model : **TS 100 - 10**

Outlet Size : **1¼" / 1½" NPT**

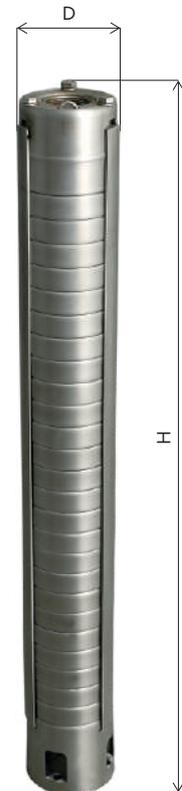
3450 rpm

Pump Model	Motor Power		m ³ /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	0.33/0.5	0.22/0.37	TOTAL DYNAMIC HEAD IN METER	58	52	46	44	37	27	14
TS100-10/09	0.5	0.37		85	76	67	61	55	41	17
TS100-10/12	0.75	0.55		111	85	75	67	61	49	23
TS100-10/15	1	0.75		136	110	98	91	84	61	27
TS100-10/21	1.5	1.1		191	165	146	132	118	91	38
TS100-10/27	2	1.5		240	213	194	178	163	130	57
TS100-10/34	3	2.2		297	273	245	229	213	168	67
TS100-10/48	5/5.5	3.7/4.1		434	354	312	287	259	201	75
TS100-10/58	5/6	3.7/4.5		544	462	419	390	351	264	110
TS100-10/75	10	7.5		664	557	512	485	457	390	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	
TS100-10/06	3.82	11.46	6
TS100-10/09	3.82	14.06	7
TS100-10/12	3.82	16.65	9
TS100-10/15	3.82	19.25	11
TS100-10/21	3.82	24.41	15
TS100-10/27	3.82	29.65	17
TS100-10/34	3.82	41.18	27
TS100-10/48	3.82	54.41	37
TS100-10/58	3.82	63.86	46
TS100-10/75	3.82	85.0	54



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.

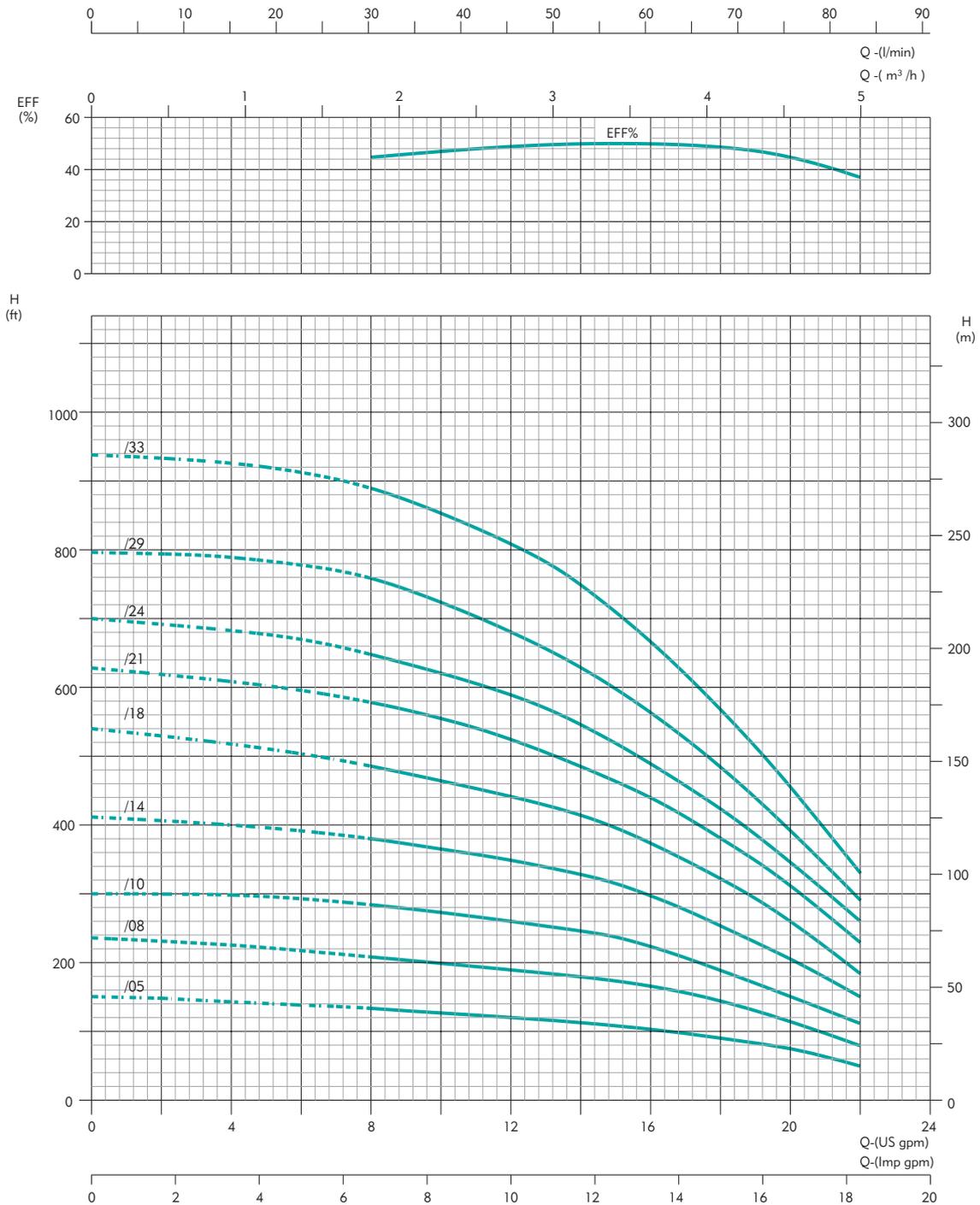
PERFORMANCE CURVES

TS / TN SERIES > 4" > 16 GPM

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" > 16 GPM

Model : **TS 100 - 16**

Outlet Size : **1¼" / 1½" NPT**

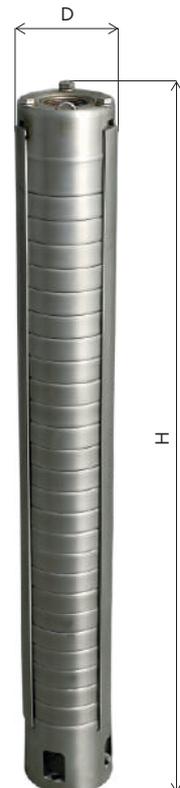
3450 rpm

Pump Model	Power		m ³ /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 METER	46	40	37	35	32	27	24	15
TS100-16/08	0.75	0.55		72	61	58	55	52	44	35	24
TS100-16/10	1	0.75		91	84	79	74	70	58	46	35
TS100-16/14	1.5	1.1		126	111	107	101	91	78	61	47
TS100-16/18	2	1.5		165	142	136	128	116	98	80	55
TS100-16/21	3	2.2		192	171	162	146	134	116	94	70
TS100-16/24	3	2.2		213	189	180	168	149	131	107	79
TS100-16/29	4/5	3/3.7		243	220	207	192	171	148	121	88
TS100-16/33	5	3.7		287	261	247	229	204	174	139	102

* 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	10.59	6
TS100-16/08	3.82	19.00	7
TS100-16/10	3.82	14.92	8
TS100-16/14	3.82	18.39	11
TS100-16/18	3.82	21.85	13
TS100-16/21	3.82	24.45	15
TS100-16/24	3.82	27.05	17
TS100-16/29	3.82	31.38	19
TS100-16/33	3.82	40.24	27



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.

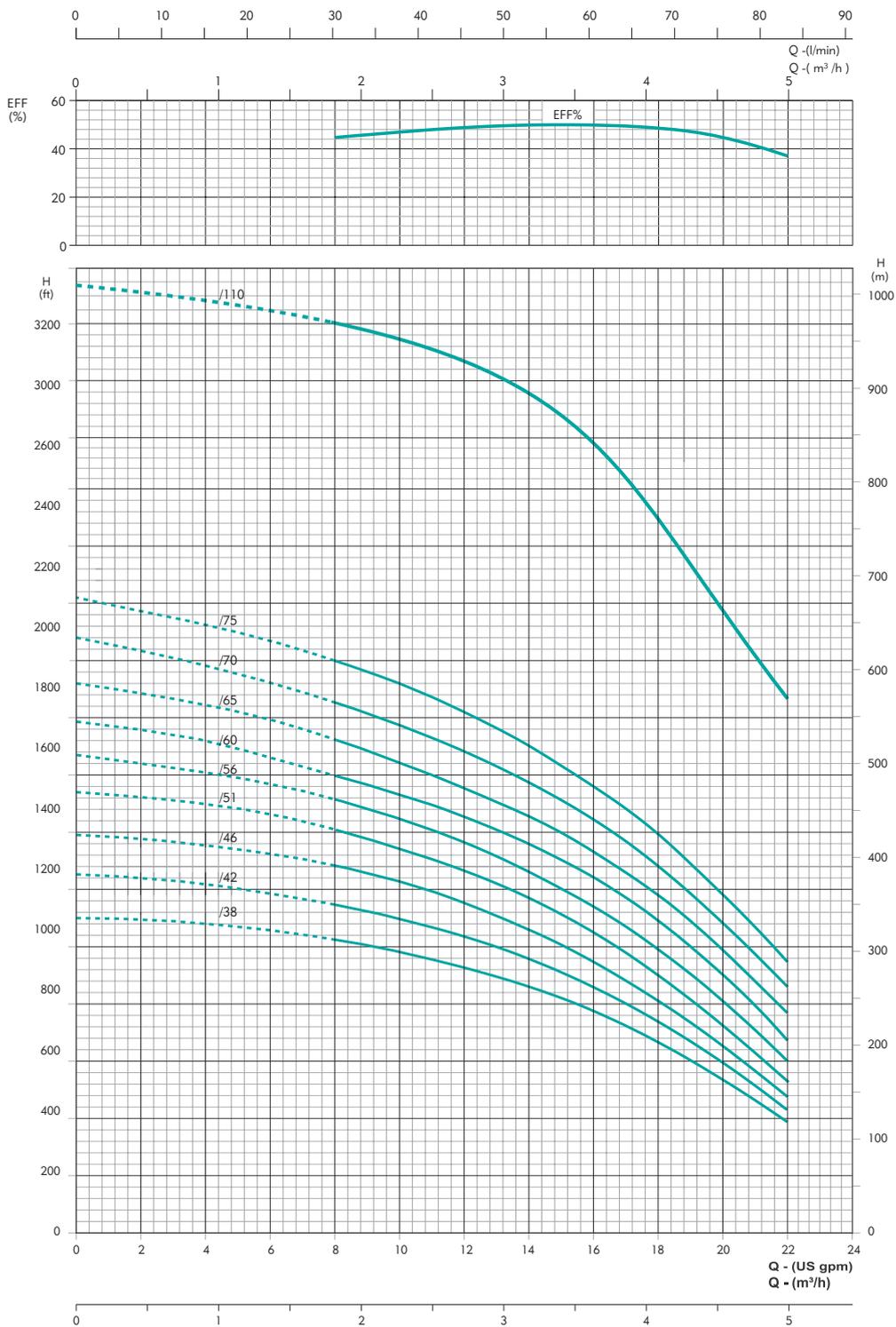
PERFORMANCE CURVES

TS / TN SERIES > 4" > 16 GPM

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" > 16 GPM

Model : **TS 100 - 16**

Outlet Size : **1¼" / 1½" NPT**

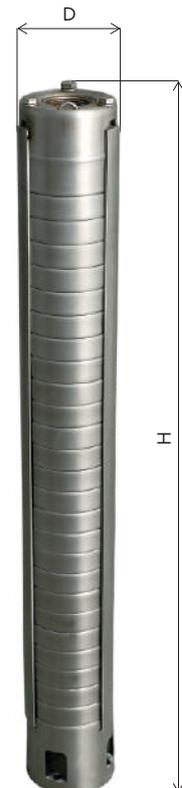
3450 rpm

Pump Model	Power		m ³ /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	5/7.5	3.7/5.5	TOTAL DYNAMIC HEAD IN METER	335	299	283	262	238	205	165	119
TS100-16/42	6 / 7.5	4 / 5.5		382	335	317	293	263	226	183	133
TS100-16/46	6 / 7.5	4 / 5.5		424	375	351	323	288	247	198	146
TS100-16/51	7.5	5.5		470	410	387	357	320	274	221	168
TS100-16/56	7.5	5.5		510	441	417	384	347	302	258	183
TS100-16/60	7.5	5.5		543	468	445	415	379	334	274	207
TS100-16/65	10	7.5		586	494	471	443	406	360	302	235
TS100-16/70	10	7.5		635	541	513	480	441	390	332	262
TS100-16/75	10	7.5		677	585	556	518	475	433	360	290
TS100-16/110	15	11		1026	959	936	901	850	759	664	568

* 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	44.96	30
TS100-16/42	3.82	49.69	34
TS100-16/46	3.82	53.46	36
TS100-16/51	3.82	58.19	39
TS100-16/56	3.82	61.97	43
TS100-16/60	3.82	67.64	46
TS100-16/65	3.82	72.36	52
TS100-16/70	3.82	77.09	55
TS100-16/75	3.82	81.81	59
TS100-16/110	3.82	120.00	86



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.

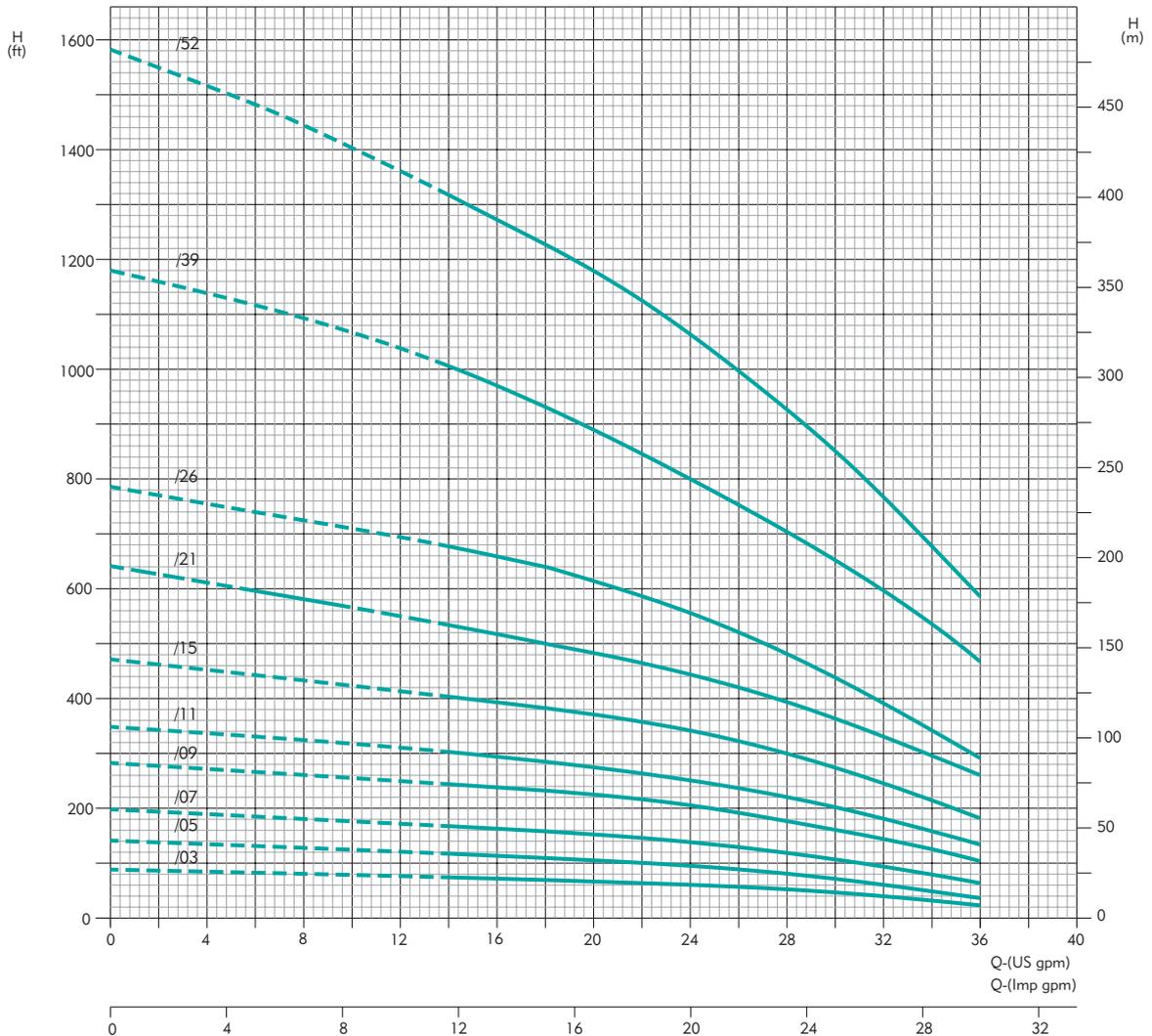
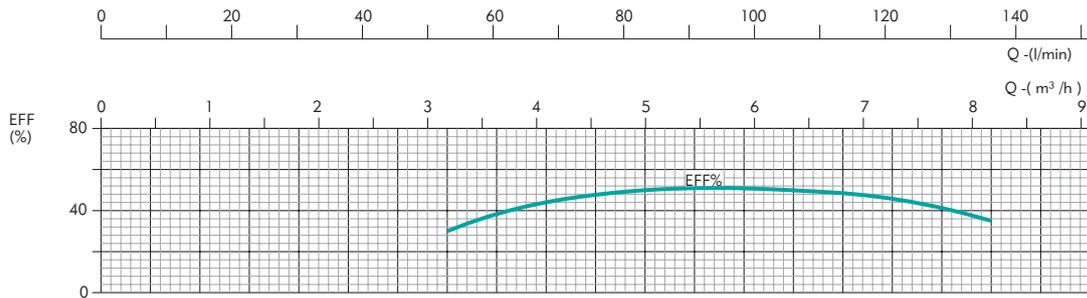
PERFORMANCE CURVES

TS / TN SERIES > 4" > 25 GPM

Model : **TS 100 - 25**

Outlet Size : **1½" NPT**

3450 rpm



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

PERFORMANCE DATA

TS / TN SERIES > 4" > 25 GPM

Model : **TS 100 - 25**

Outlet Size : **1½" NPT**

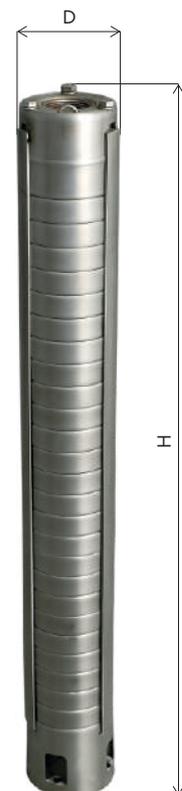
3450 rpm

Pump Model	Power		m ³ /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 METER	27	23	21	20	18	15	12	8
TS100-25/05	0.75	0.55		43	35	35	30	29	24	23	11
TS100-25/07	1	0.75		61	52	49	45	42	37	30	20
TS100-25/09	1.5	1.1		85	76	72	67	61	53	45	32
TS100-25/11	2	1.5		107	91	88	82	75	68	54	41
TS100-25/15	3	2.2		144	122	116	109	102	91	75	55
TS100-25/21	4 / 5	3 / 3.7		195	162	152	143	132	119	102	79
TS100-25/26	5 / 6	3.7 / 4.5		240	206	195	179	165	145	119	91
TS100-25/39	7.5	5.5		360	307	286	258	238	215	182	143
TS100-25/52	10	7.5		482	402	375	343	316	290	233	178

* 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	9.09	5
TS100-25/05	3.82	10.91	6
TS100-25/07	3.82	12.87	7
TS100-25/09	3.82	14.69	9
TS100-25/11	3.82	16.42	10
TS100-25/15	3.82	20.20	12
TS100-25/21	3.82	26.10	15
TS100-25/26	3.82	33.62	21
TS100-25/39	3.82	45.91	31
TS100-25/52	3.82	59.13	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.

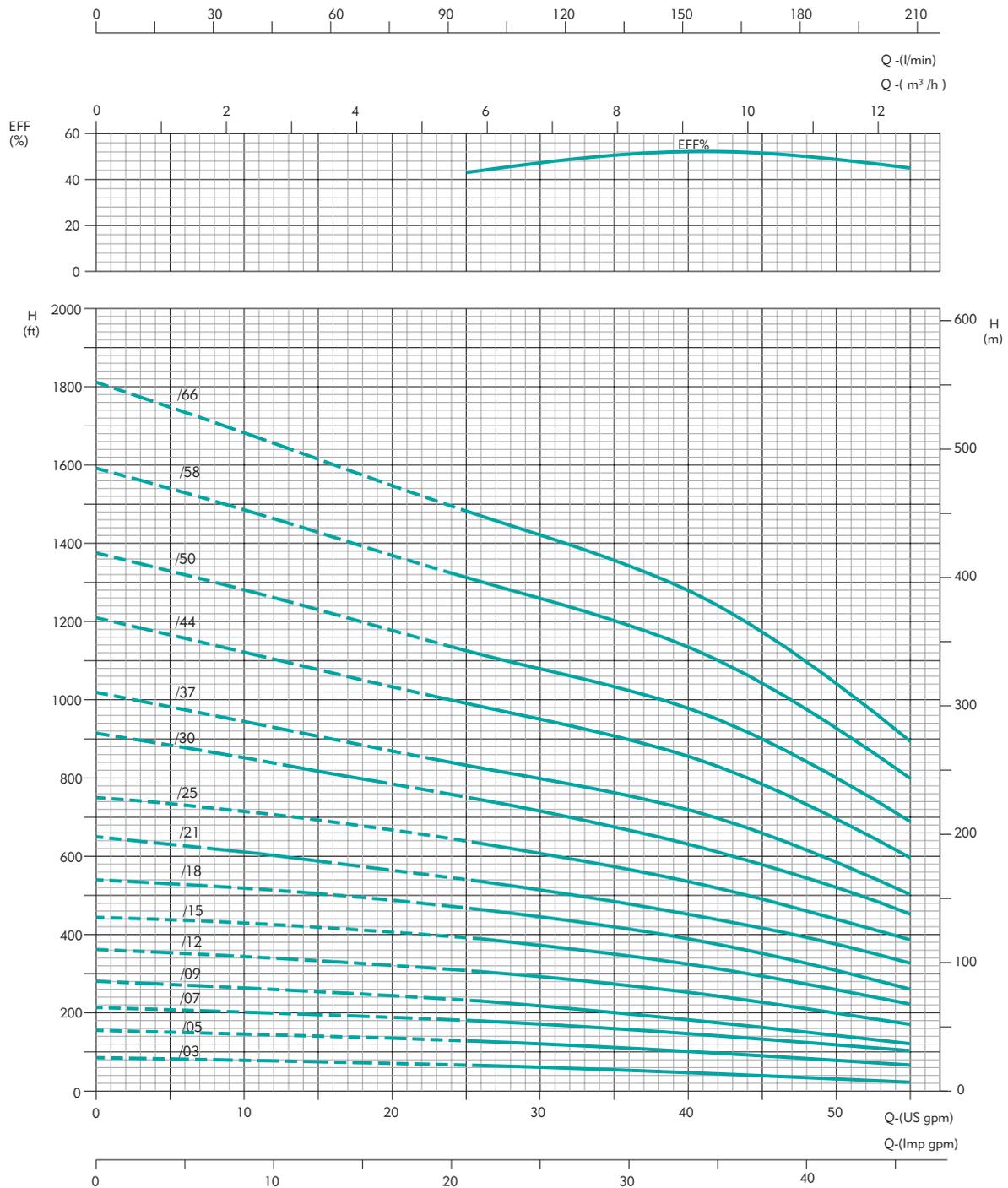
PERFORMANCE CURVES

TS / TN SERIES > 4" > 40 GPM

Model : **TS 100 - 40**

Outlet Size : **2" NPT**

3450 rpm



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

PERFORMANCE DATA

TS / TN SERIES > 4" > 40 GPM

Model : **TS 100 - 40**

Outlet Size : **2" NPT**

3450 rpm

Pump Model	Power		m ³ /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 METER	27	23	19	12	6
TS100-40/05	1.5	1.1		48	43	37	27	18
TS100-40/07	2	1.5		65	59	52	41	30
TS100-40/09	3	2.2		85	78	67	49	38
TS100-40/12	5 / 5.5	3.7 / 4		110	101	90	69	52
TS 100-40/15	0.8	3.7/4.5		134	128	113	90	68
TS100-40/18	7.5	5.5		165	152	137	109	79
TS100-40/21	7.5	5.5		198	162	156	128	99
TS100-40/25	7.5	5.5		229	210	185	151	119
TS100-40/30	10	7.5		279	250	218	178	139
TS100-40/37-6	12.5/15	9.3/11		311	274	244	201	152
TS100-40/44-6	15	11		369	329	290	239	183
TS100-40/50-6	17.5/20	13/15		420	375	361	274	212
TS100-40/58-6	20	15		485	433	387	317	244
TS100-40/66-6	20	15		552	494	433	359	274

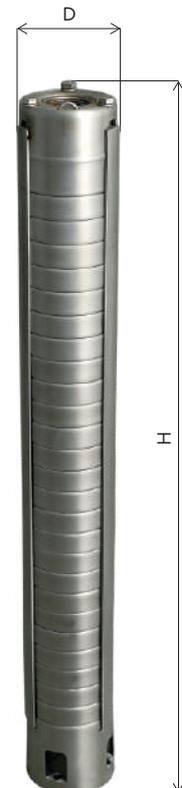
* For AISI 316 replace TS with TN : Performance Data remains same.

Nett Weights & Dimensions

Pump Model	Dimensions in Inches		Nett Weight (lbs)
	D	H	
TS100-40/03	3.82	13.31	9
TS100-40/05	3.82	16.14	10
TS100-40/07	3.82	18.98	11
TS100-40/09	3.82	21.81	13
TS100-40/12	3.82	26.06	16
TS100-40/15	3.82	30.31	19
TS100-40/18	3.82	35.57	22
TS100-40/21	3.82	38.74	25
TS100-40/25	3.82	45.35	29
TS100-40/30	3.82	52.44	33
TS100-40/37-6	3.82	62.36	40
TS100-40/44-6	3.82	73.23	49
TS100-40/50-6	3.82	81.73	56
TS100-40/58-6	3.82	93.07	61
TS100-40/66-6	3.82	104.41	67

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.

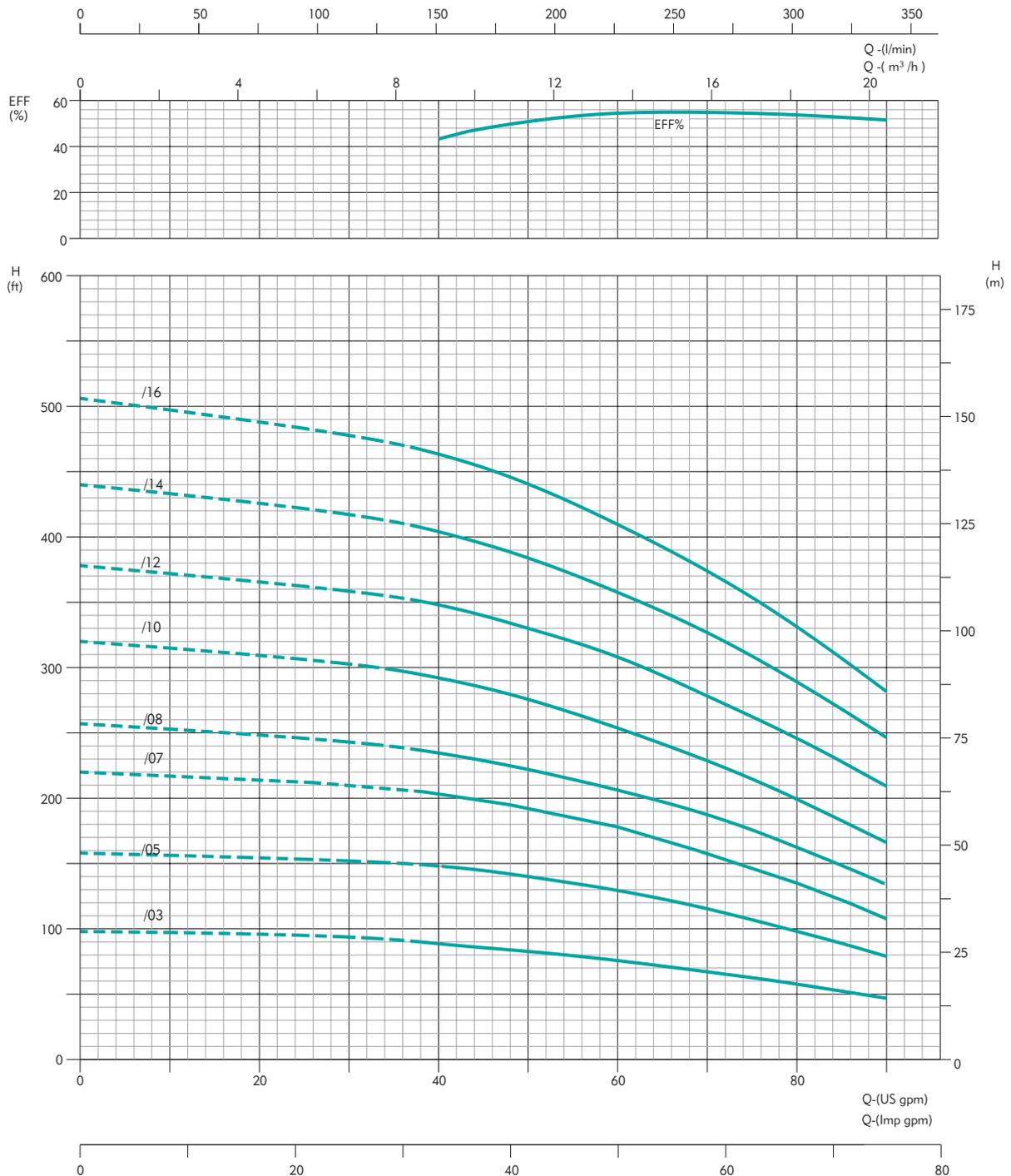
PERFORMANCE CURVES

TS / TN SERIES > 4" > 75 GPM

Model : **TS 100 - 75**

Outlet Size : **2" NPT**

3450 rpm



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

PERFORMANCE DATA

TS / TN SERIES > 4" > 75 GPM

Model : **TS 100 - 75**

Outlet Size : **2" NPT**

3450 rpm

Pump Model	Power		m ³ /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 METER	30	29	23	18	14
TS100-75/05	3	2.2		48	46	40	30	24
TS100-75/07	5/5.5	3.7/4		67	64	53	40	34
TS100-75/08	5/7.5	3.7/5.5		79	74	63	49	41
TS100-75/10	7.5	5.5		98	93	78	61	51
TS100-75/12	7.5/10	5.5/7.5		116	109	94	75	64
TS100-75/14	10	7.5		134	127	109	87	75
TS100-75/16	10	7.5		155	146	125	101	85

* 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	3.82	17.44	11
TS100-75/05	3.82	22.56	14
TS100-75/07	3.82	27.68	17
TS100-75/08	3.82	30.24	18
TS100-75/10	3.82	35.35	22
TS100-75/12	3.82	40.47	25
TS100-75/14	3.82	45.59	28
TS100-75/16	3.82	50.71	31

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

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

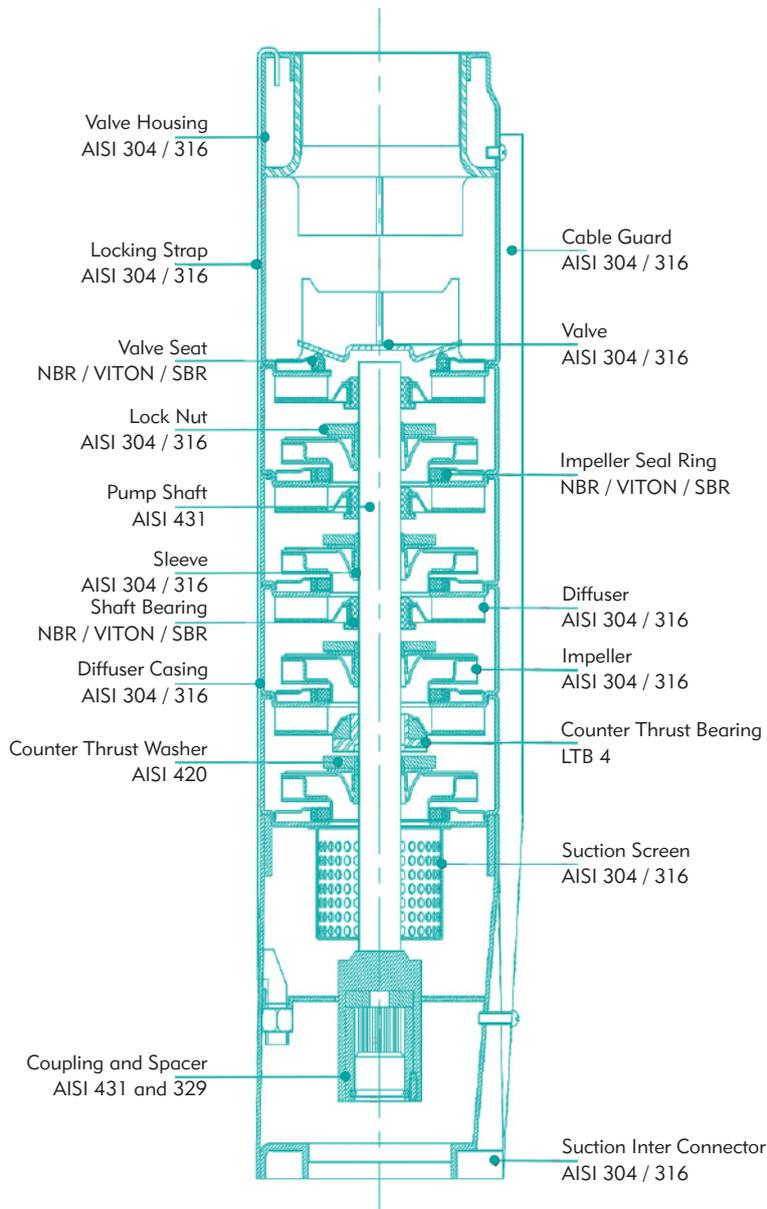
All performance data is based on rated input. Tolerance in accordance with ISO 9906 Annex-A.



CONSTRUCTIONAL DATA

85 - 90 gpm

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

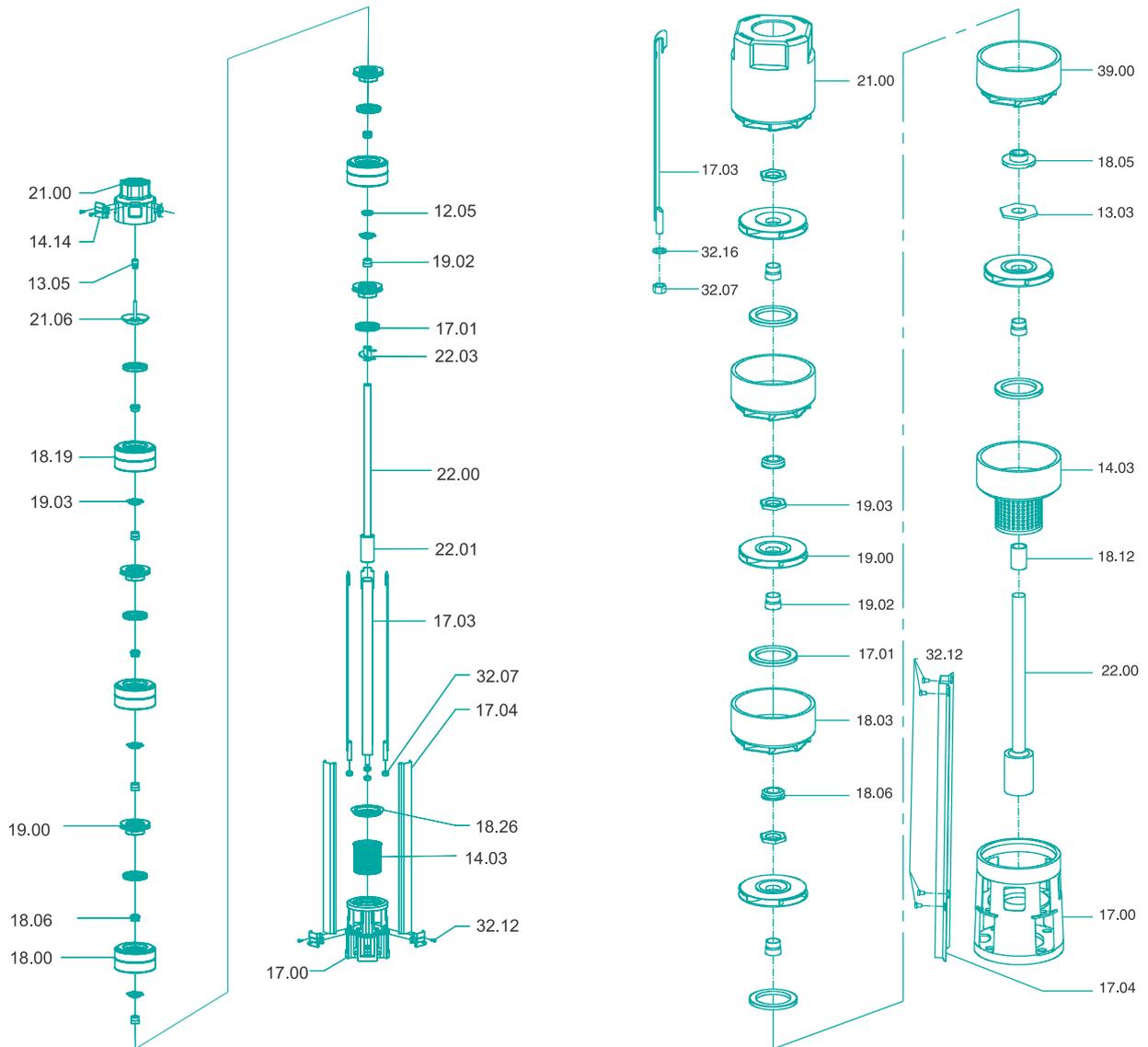


Pump Version - TS = AISI 304 Construction
 Pump Version - TN = AISI 316 Construction
 NEMA mounting dimensions.

EXPLODED VIEW

85 gpm

90 gpm



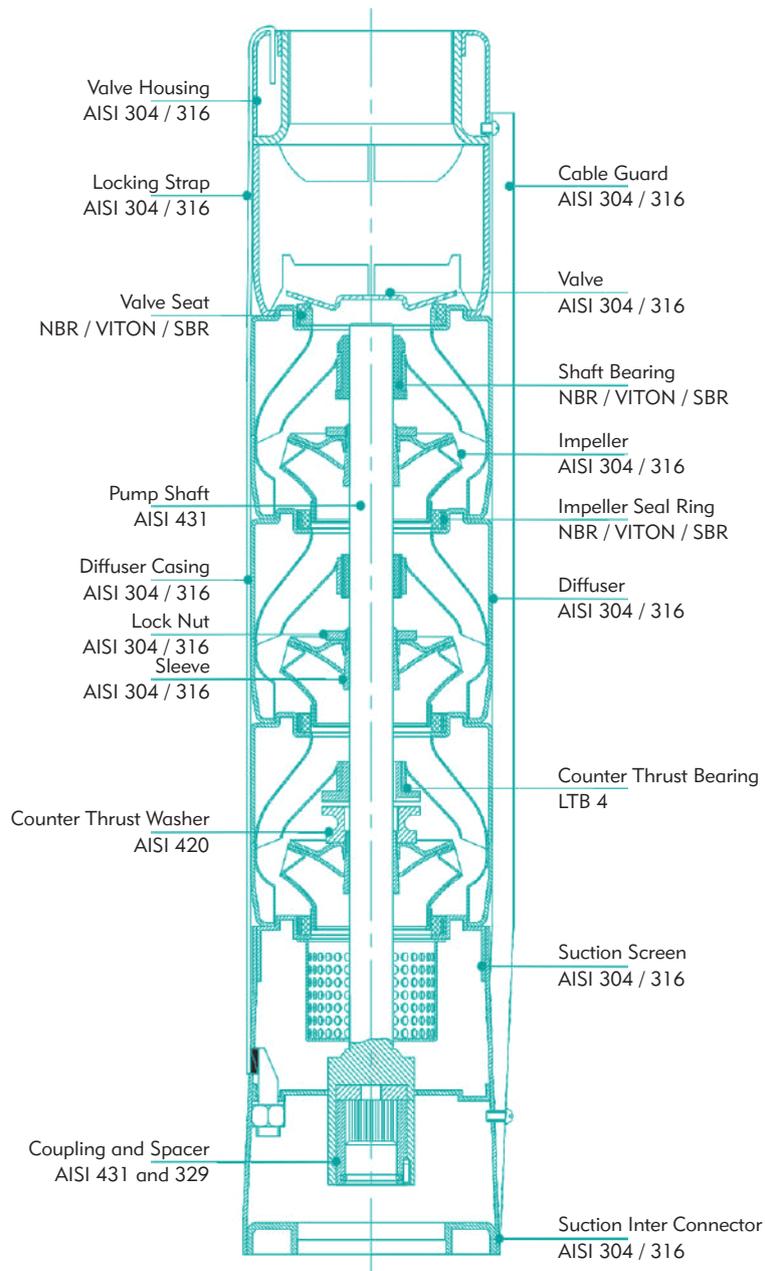
Part No.	Part Name	Part No.	Part Name	Part No.	Part Name	Part No.	Part Name
12.05	Counter Thrust Ring	18.26	Wearing ring Guide	13.03	Upthrust Washer	19.00	Impeller
13.05	Sleeve	19.00	Impeller	14.03	Chamber Inlet Screen	19.02	Split Cone
14.03	Strainer	19.02	Split Cone	17.00	Suction Inter-connector	19.03	Split Cone Nut
14.14	Cable Clamp	19.03	Split Cone Nut	17.01	Wear ring	21.00	Check Valve Housing
17.00	Suction Inter Connector	21.00	Valve Housing	17.03	Locking Straps	22.00	Pump Shaft
17.01	Wearing ring	21.06	Valve Disc	17.04	Cable Guard	32.07	Nut
17.03	Locking Strap-Pump	22.00	Pump Shaft	18.03	Diffuser Chamber	32.12	Screw
17.04	Cable Guard	22.01	Coupling	18.06	Bush - CT Pad	32.16	Washer
18.00	Chamber -Rubber bush	22.03	Priming sleeve	18.05	Bush - Diffuser Chamber	39.00	Chamber - Bracket
18.06	Bush - Rubber	32.06	Lock Nut	18.12	Spacer Sleeve		
18.19	Chamber - Top	32.07	Nut				
		32.12	Screw				

All mountin dimensions are in accordance with NEMA Standards

CONSTRUCTIONAL DATA

150 - 300 gpm

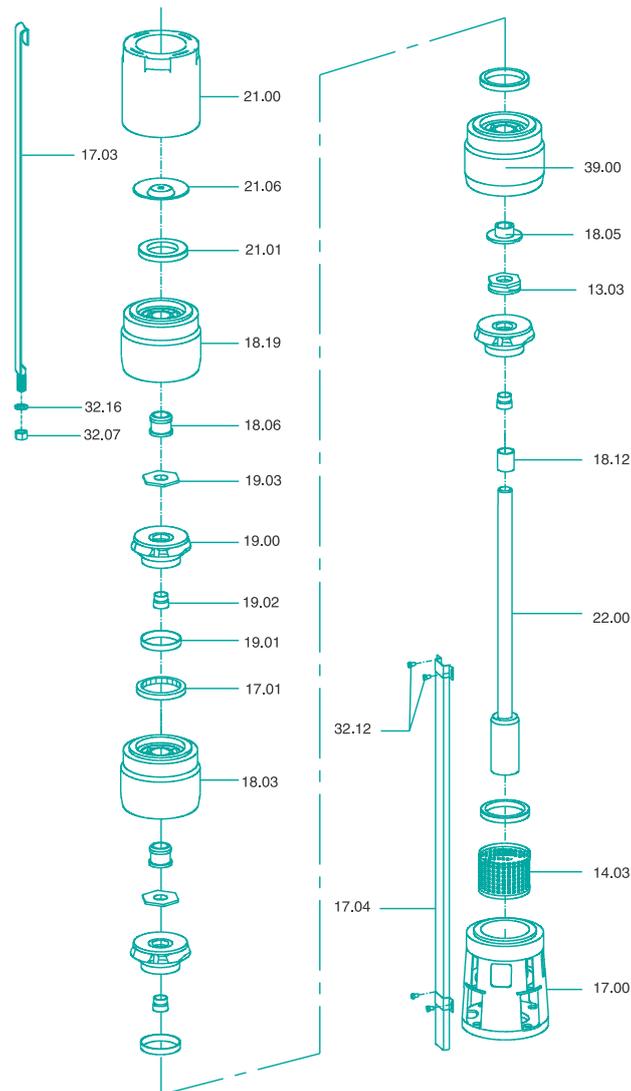
6" > TS Series > Version TS / TN > Constructional Data of Semi - Axial Flow Pump



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

EXPLODED VIEW

150, 240, 300, 380 & 460 gpm



Part No.	Part Name	Part No.	Part Name
13.03	Upthrust Washer	19.01	Neck Ring
14.03	Inlet Screen	19.02	Split Cone
17.00	Suction Inter-connector	19.03	Split Cone Nut
17.01	Wear ring	21.00	Check Valve Housing
17.03	Locking Straps	21.01	Check Valve Seat
17.04	Cable Guard	21.06	Check Valve Disc
18.05	Bush - CT Pad	22.00	Pump Shaft
18.06	Bush - Diffuser Chamber	32.07	Nut
18.03	Diffuser Chamber	32.12	Screw
18.12	Spacer Sleeve	32.16	Washer
18.19	Diffuser Chamber Top	39.00	Chamber - Bracket
19.00	Impeller		

All mounting dimensions are in accordance with NEMA Standards

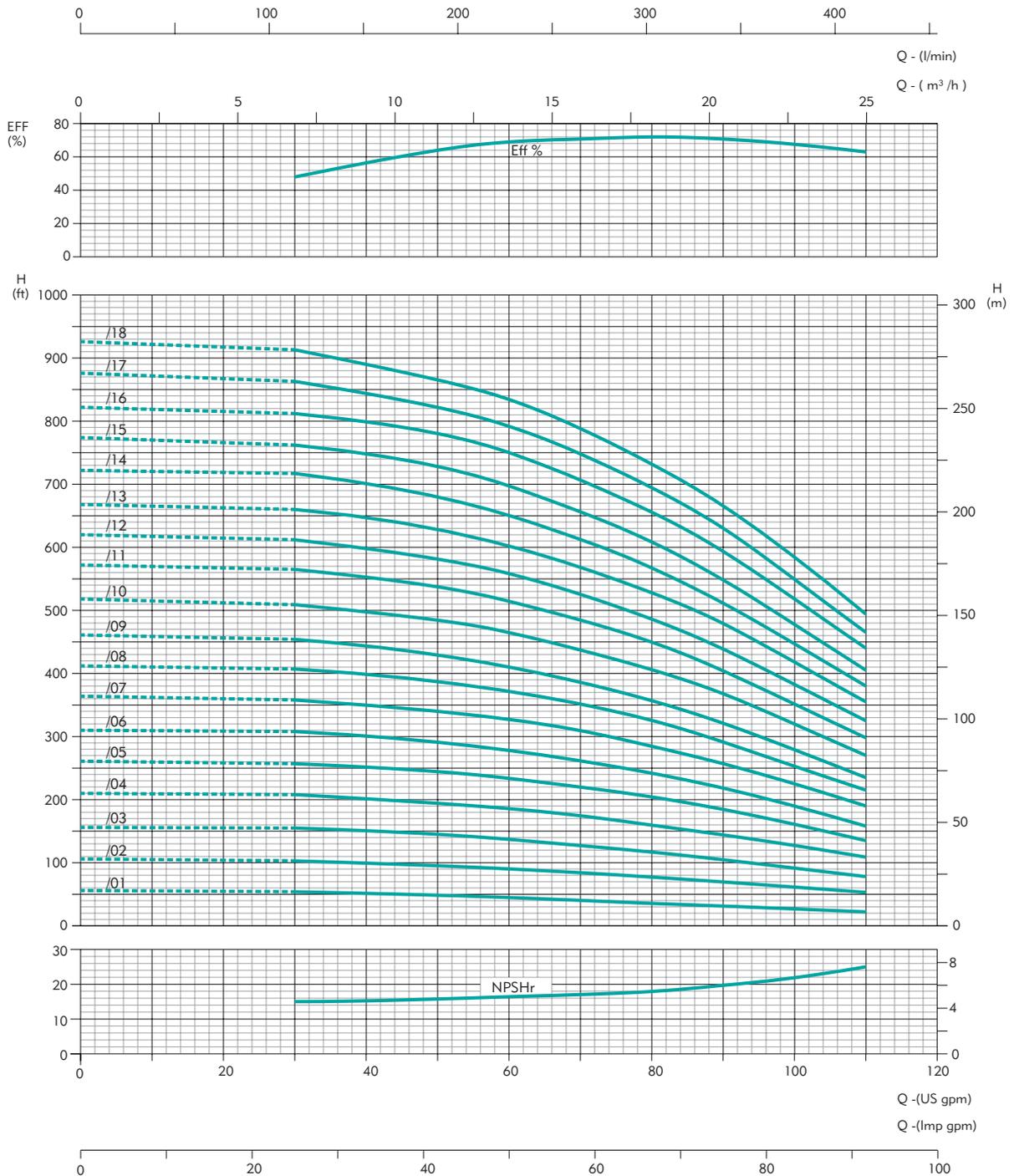
PERFORMANCE CURVES

TS / TN SERIES > 6" > 85 GPM

Model : **TS 150 - 85**

Outlet Size : **2½" / 3" NPT**

3450 rpm



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

PERFORMANCE DATA

TS / TN SERIES > 6" > 85 GPM

Model : **TS 150 - 85**

Outlet Size : **2½" / 3" NPT**

3450 rpm

Pump Model	Power		m ³ /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 METER	17	16	15	14	12	12	11	7
TS150-85/02-4	3	2.2		32	31	30	29	26	24	23	16
TS150-85/03	5	3.7		48	47	45	41	39	36	32	24
TS150-85/04	5	3.7		64	63	59	57	53	48	44	33
TS150-85/05	7.5	5.5		80	78	75	71	67	62	57	41
TS150-85/06	7.5	5.5		94	94	89	84	80	73	67	79
TS150-85/07	10	7.5		111	109	104	100	94	87	78	58
TS150-85/08	10	7.5		126	124	118	113	106	99	88	66
TS150-85/09	10	7.5		141	138	131	125	118	78	99	72
TS150-85/10	15	11		158	155	148	142	139	124	112	82
TS150-85/11	15	11		173	172	164	154	148	131	123	131
TS150-85/12	15	11		189	187	177	170	160	148	134	99
TS150-85/13	15	11		204	201	191	183	173	160	146	108
TS150-85/14	20	15		220	219	208	198	187	174	157	116
TS150-85/15	20	15		236	232	222	213	201	186	162	123
TS150-85/16	20	15		251	247	238	229	215	201	181	134
TS150-85/17	20	15		267	263	251	242	228	212	193	142
TS150-85/18	20	15		282	278	266	255	240	224	202	151

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

Nett Weights & Dimensions

Pump Model	Dimensions in Inches		Nett Weight (lbs)
	D	H	
TS150-85/01	5.7	13	27
TS150-85/02	5.7	15	35
TS150-85/03	5.7	17	35
TS150-85/04	5.7	20	44
TS150-85/05	5.7	22	48
TS150-85/06	5.7	24	53
TS150-85/07	5.7	27	63
TS150-85/08	5.7	30	68
TS150-85/09	5.7	32	77
TS150-85/10	5.7	34	82
TS150-85/11	5.7	37	92
TS150-85/12	5.7	39	97
TS150-85/13	5.7	41	106
TS150-85/14	5.7	44	114
TS150-85/15	5.7	46	119
TS150-85/16	5.7	48	123
TS150-85/17	5.7	51	128
TS150-85/18	5.7	53	133

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.



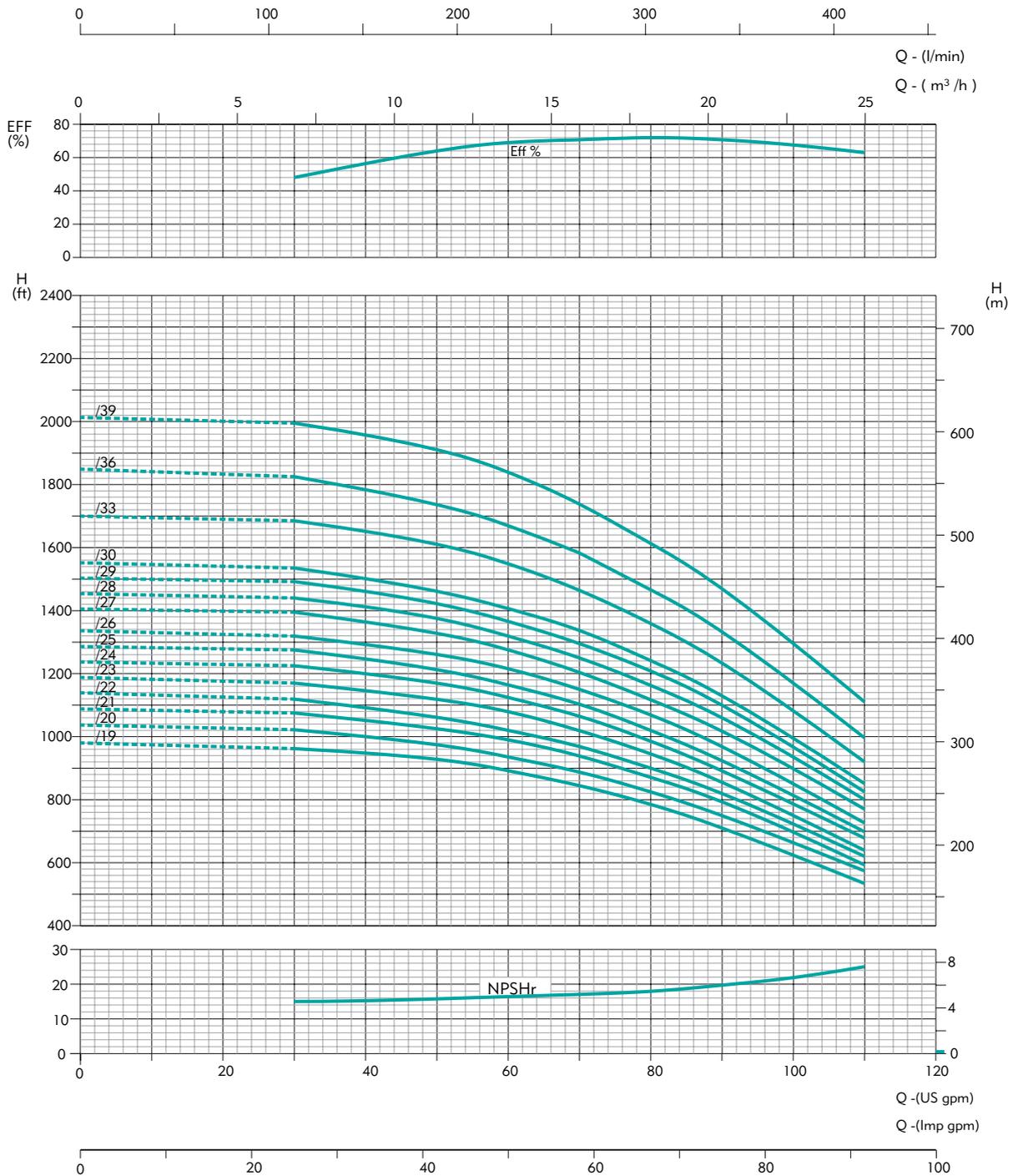
PERFORMANCE CURVES

TS / TN SERIES > 6" > 85 GPM

Model : **TS 150 - 85**

Outlet Size : **2½" / 3" NPT**

3450 rpm



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

PERFORMANCE DATA

TS / TN SERIES > 6" > 85 GPM

Model : **TS 150 - 85**

Outlet Size : **2½" / 3" NPT**

3450 rpm

Pump Model	Power		m ³ /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 METER	299	293	283	272	258	239	217	163
TS150-85/20	25	18.5		316	312	297	285	271	251	229	175
TS150-85/21	25	18.5		332	328	312	302	287	265	243	181
TS150-85/22	25	18.5		347	341	324	311	296	274	251	189
TS150-85/23	30	22		362	361	341	330	311	289	262	195
TS150-85/24	30	22		377	373	357	343	325	301	273	207
TS150-85/25	30	22		392	389	370	355	336	311	282	213
TS150-85/26	30	22		407	402	384	371	351	326	296	221
TS150-85/27	35	26.25		428	425	405	390	367	341	311	235
TS150-85/28	35	26.25		443	439	420	402	381	355	325	244
TS150-85/29	35	26.25		458	455	435	417	396	369	337	251
TS150-85/30	35	26.25		473	468	446	429	408	378	346	259
TS150-85/33	40	30		518	514	492	472	447	414	377	280
TS150-85/36	40	30		564	556	530	510	482	447	406	304
TS150-85/39	50	37		614	608	583	561	530	491	450	338

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

Nett Weights & Dimensions

Pump Model	Dimensions in Inches		Nett Weight (lbs)
	D	H	
TS150-85/19	5.7	55	143
TS150-85/20	5.7	58	152
TS150-85/21	5.7	60	162
TS150-85/22	5.7	63	167
TS150-85/23	5.7	65	172
TS150-85/24	5.7	67	182
TS150-85/25	5.7	70	186
TS150-85/26	5.7	72	191
TS150-85/27	5.7	74	201
TS150-85/28	5.7	77	208
TS150-85/29	5.7	79	213
TS150-85/30	5.7	81	218
TS150-85/33	5.7	88	242
TS150-85/36	5.7	95	261
TS150-85/39	5.7	102	281
TS150-85/42	5.7	-	-

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.

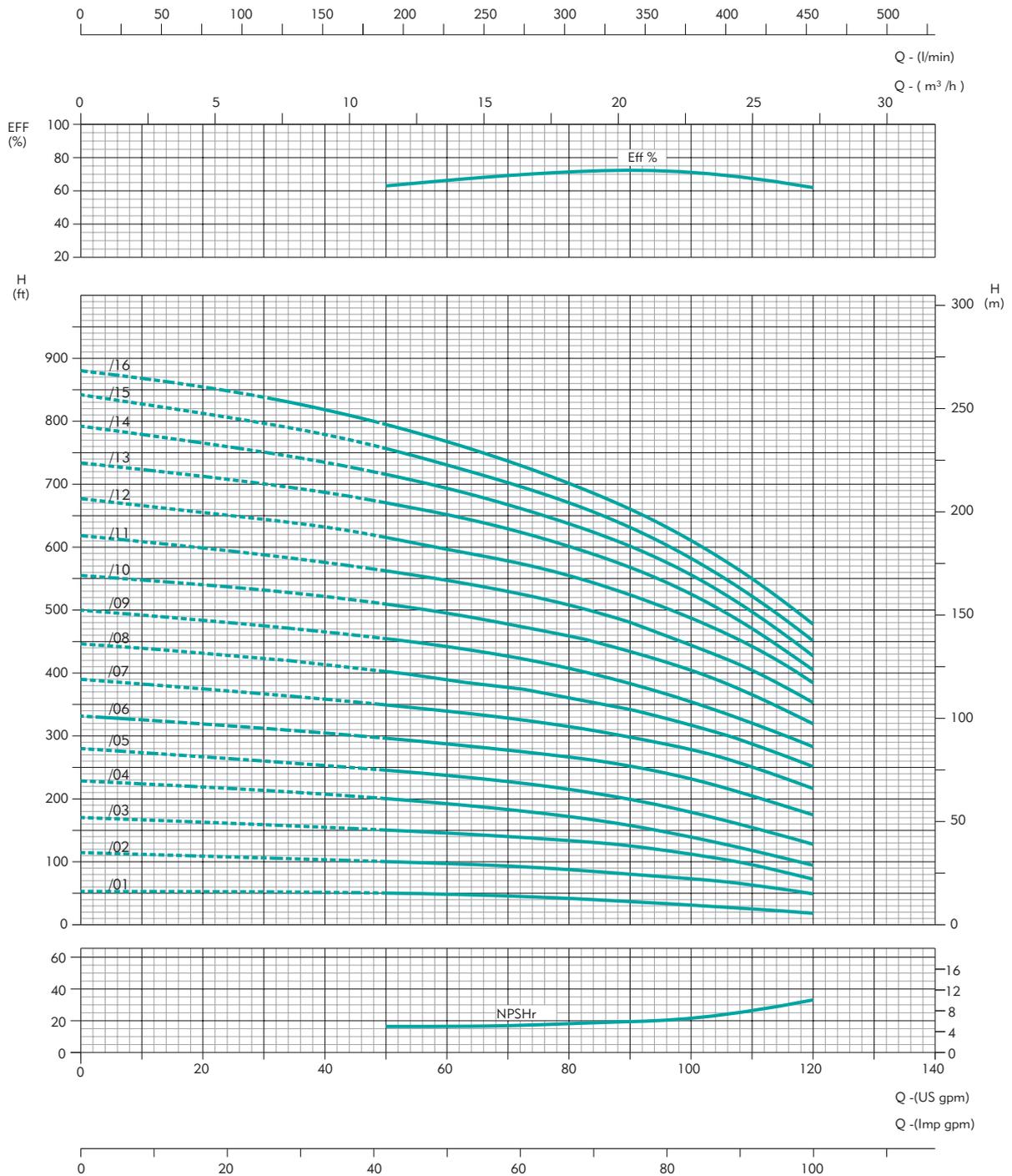
PERFORMANCE CURVES

TS / TN SERIES > 6" > 90 GPM

Model : **TS 150 - 90**

Outlet Size : **3" NPT**

3450 rpm



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

PERFORMANCE DATA

TS / TN SERIES > 6" > 90 GPM

Model : **TS 150 - 90**

Outlet Size : **3" NPT**

3450 rpm

Pump Model	Power		m ³ /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 METER	16	15	14	9	6
TS150-90/02-4	3	2.2		36	30	28	23	15
TS150-90/03	4	3		53	46	42	37	21
TS150-90/04	5.5/5	4/3.75		70	61	53	43	29
TS150-90/05	7.5	5.5		85	76	66	55	39
TS150-90/06	7.5	5.5		101	91	80	70	53
TS150-90/07	10	7.5		119	107	95	85	66
TS150-90/08	10	7.5		137	123	110	96	76
TS150-90/09	12.5/15	9.3/11		152	138	125	108	86
TS150-90/10	15	11		168	156	140	123	98
TS150-90/11	15	11		190	172	155	137	107
TS150-90/12	15	11		206	189	168	149	118
TS150-90/13	17.5/20	13/15		223	205	183	160	123
TS150-90/14	20	15		241	220	194	169	130
TS150-90/15	20	15		256	231	204	178	137
TS150-90/16	20	15		263	243	213	187	145

* 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	5.4	-	12.95	19
TS150-90/02	5.4	-	14.69	19.91
TS150-90/03-4	5.4	-	16.81	22
TS150-90/04	5.4	-	18.54	24
TS150-90/05	5.4	5.7	20.28	26
TS150-90/06	5.4	5.7	22.01	29
TS150-90/07	5.4	5.7	23.74	31
TS150-90/08	5.4	5.7	25.47	33
TS150-90/09	5.4	5.7	27.20	35
TS150-90/10	5.4	5.7	28.94	37
TS150-90/11	5.4	5.7	30.67	39
TS150-90/12	5.4	5.7	32.40	41
TS150-90/13	5.4	5.7	34.13	44
TS150-90/14	5.4	5.7	35.87	46
TS150-90/15	5.4	5.7	37.60	48
TS150-90/16	5.4	5.7	39.33	50

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.

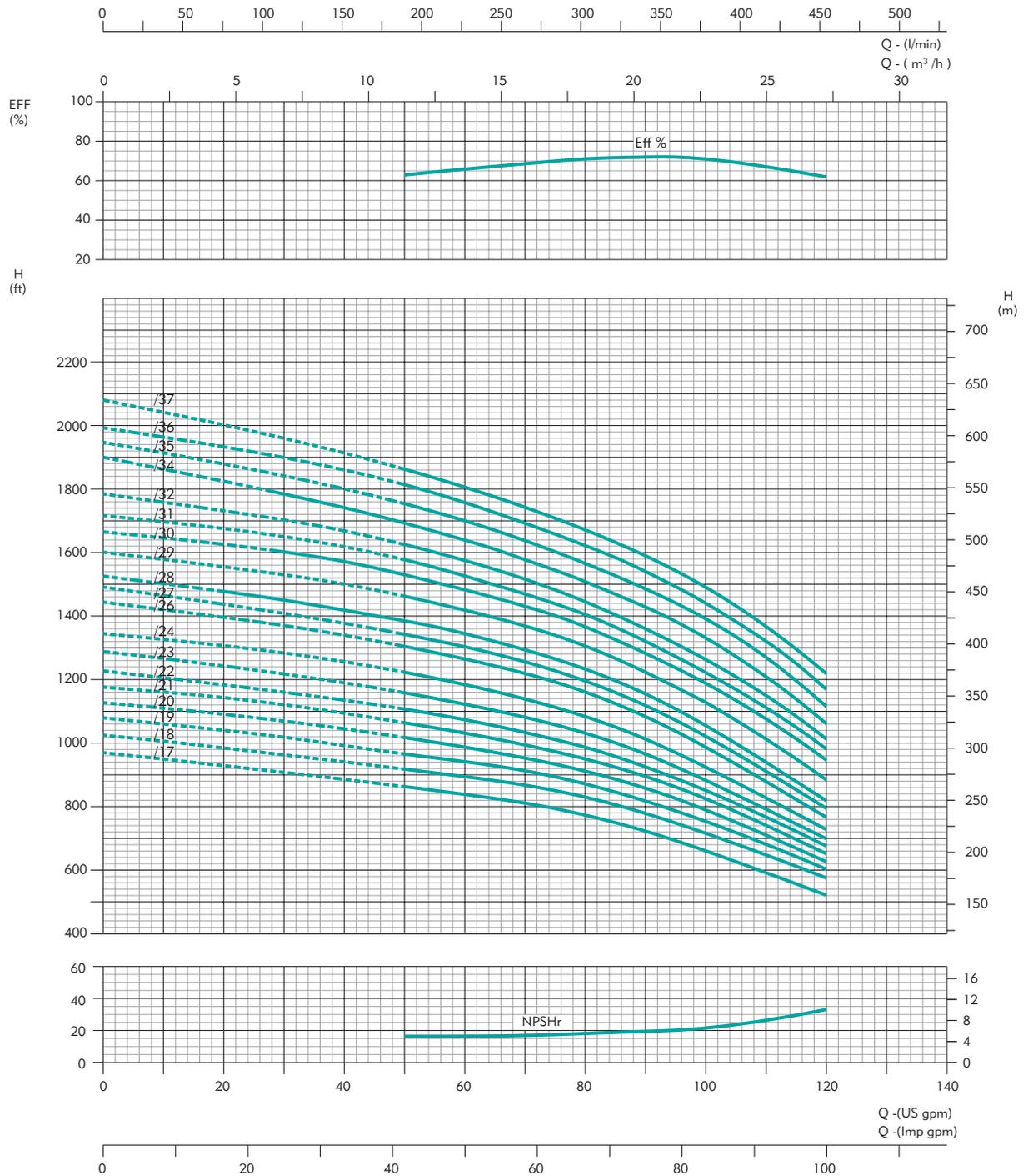
PERFORMANCE CURVES

TS / TN SERIES > 6" > 90 GPM

Model : **TS 150 - 90**

Outlet Size : **3" NPT**

3450 rpm



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

PERFORMANCE DATA

TS / TN SERIES > 6" > 90 GPM

Model : **TS 150 - 90**

Outlet Size : **3" NPT**

3450 rpm

Pump Model	Power		m ³ /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 METER	296	262	236	201	158
TS150-90/18	25	18.5		312	280	253	218	172
TS150-90/19	30	22.5		329	294	265	229	185
TS150-90/20	30	22.5		345	310	278	243	189
TS150-90/21	30	22.5		358	323	290	252	200
TS150-90/22	35	26.25		375	337	301	262	206
TS150-90/23	35	26.25		392	354	315	268	213
TS 150-90/24	35	26.25		410	372	332	282	221
TS150-90/26	35/40	26/30		439	398	355	300	233
TS150-90/27	35/40	26/30		454	410	366	312	243
TS150-90/28	35/40	26/30		463	424	375	320	248
TS150-90/29	40	30		488	446	396	342	271
TS150-90/30	50	30		507	465	415	365	288
TS150-90/31	50	30		522	480	430	373	300
TS150-90/32	50	30		546	494	440	386	308
TS150-90/34	50	37		579	518	460	406	323
TS150-90/35	50	37		594	534	477	426	339
TS150-90/36	60	37	608	552	492	440	357	
TS150-90/37	60	37	635	567	510	457	371	

* 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	5.4	5.7	41.06	52
TS150-90/18	5.4	5.7	42.80	54
TS150-90/19	5.4	5.7	44.53	57
TS150-90/20	5.4	5.7	46.26	59
TS150-90/21	5.4	5.7	47.99	61
TS150-90/22	5.4	5.7	49.72	63
TS150-90/23	5.4	5.7	51.46	65
TS150-90/24	5.4	5.7	53.19	67
TS150-90/26	5.4	5.7	56.65	72
TS150-90/27	5.4	5.7	58.39	74
TS150-90/28	5.4	5.7	60.12	76
TS150-90/29	5.4	5.7	61.85	78
TS150-90/30	5.4	5.7	63.58	80
TS150-90/31	5.4	5.7	65.31	82
TS150-90/32	5.4	5.7	67.05	85
TS150-90/34	5.4	5.7	70.51	89
TS150-90/35	5.4	5.7	72.24	91
TS150-90/36	5.4	5.7	73.98	93
TS150-90/37	5.4	5.7	75.71	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.



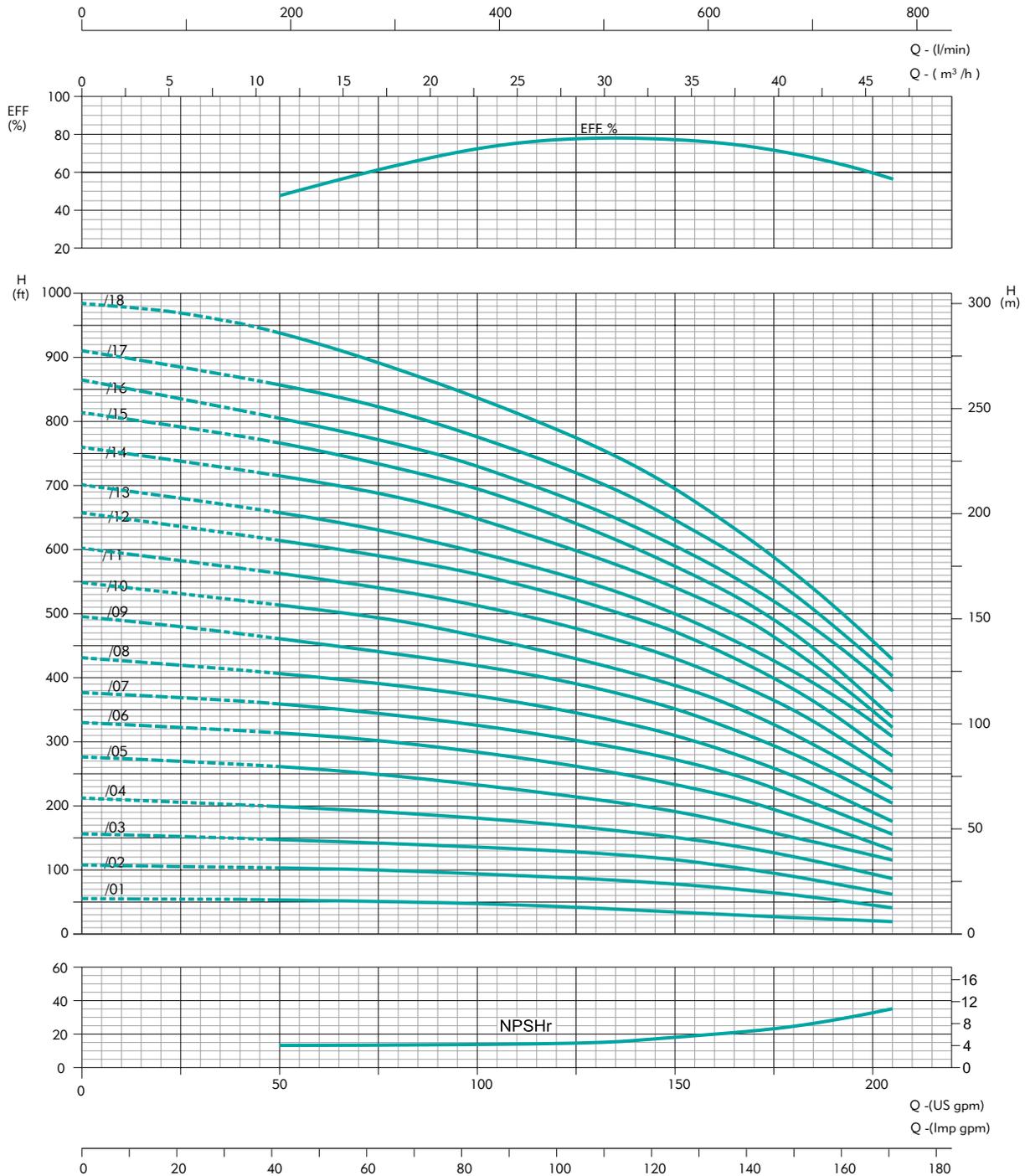
PERFORMANCE CURVES

TS / TN SERIES > 6" > 150 GPM

Model : **TS 150 - 150**

Outlet Size : **3" NPT**

3450 rpm



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

PERFORMANCE DATA

TS / TN SERIES > 6" > 150 GPM

Model : **TS 150 - 150**

Outlet Size : **3" NPT**

3450 rpm

Pump Model	Power		m ³ /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 METER	17	15	15	12	8
TS150-150/02	4	3		33	31	30	24	14
TS150-150/03	5.5/6	4/4.5		48	45	42	36	18
TS150-150/04	7.5	5.5		65	61	55	46	29
TS150-150/05	10	7.5		84	80	71	58	38
TS150-150/06	12.5/15	9.3/11		101	95	87	71	44
TS150-150/07	12.5/15	9.3/11		114	110	99	83	52
TS150-150/08	15	11		131	124	114	95	58
TS150-150/09	17.5/20	13/15		151	140	128	107	68
TS150-150/10	20	15		168	157	142	119	76
TS150-150/11	20	15		183	172	155	131	83
TS150-150/12	25	18.5		200	187	171	143	91
TS150-150/13	25	18.5		213	204	184	155	102
TS150-150/14	25	18.5		232	218	198	165	107
TS150-150/15	30	22		248	233	212	175	111
TS150-150/16	30	22		263	245	223	184	124
TS150-150/17	30	22		278	261	236	197	132
TS150-150/18	35/40	26/30		299	287	255	212	138

* 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	5.4	-	15.20	18
TS150-150/02	5.4	-	18.98	22
TS150-150/03	5.4	-	22.76	26
TS150-150/04	5.4	5.7	26.54	30
TS150-150/05	5.4	5.7	30.31	34
TS150-150/06	5.4	5.7	34.09	39
TS150-150/07	5.4	5.7	37.87	43
TS150-150/08	5.4	5.7	41.65	47
TS150-150/09	5.4	5.7	45.43	51
TS150-150/10	5.4	5.7	49.21	55
TS150-150/11	5.4	5.7	52.99	59
TS150-150/12	5.4	5.7	56.77	63
TS150-150/13	5.4	5.7	60.55	67
TS150-150/14	5.4	5.7	64.33	72
TS150-150/15	5.4	5.7	68.11	76
TS150-150/16	5.4	5.7	71.89	80
TS150-150/17	5.4	5.7	75.67	84
TS150-150/18	5.4	5.7	79.45	88

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.



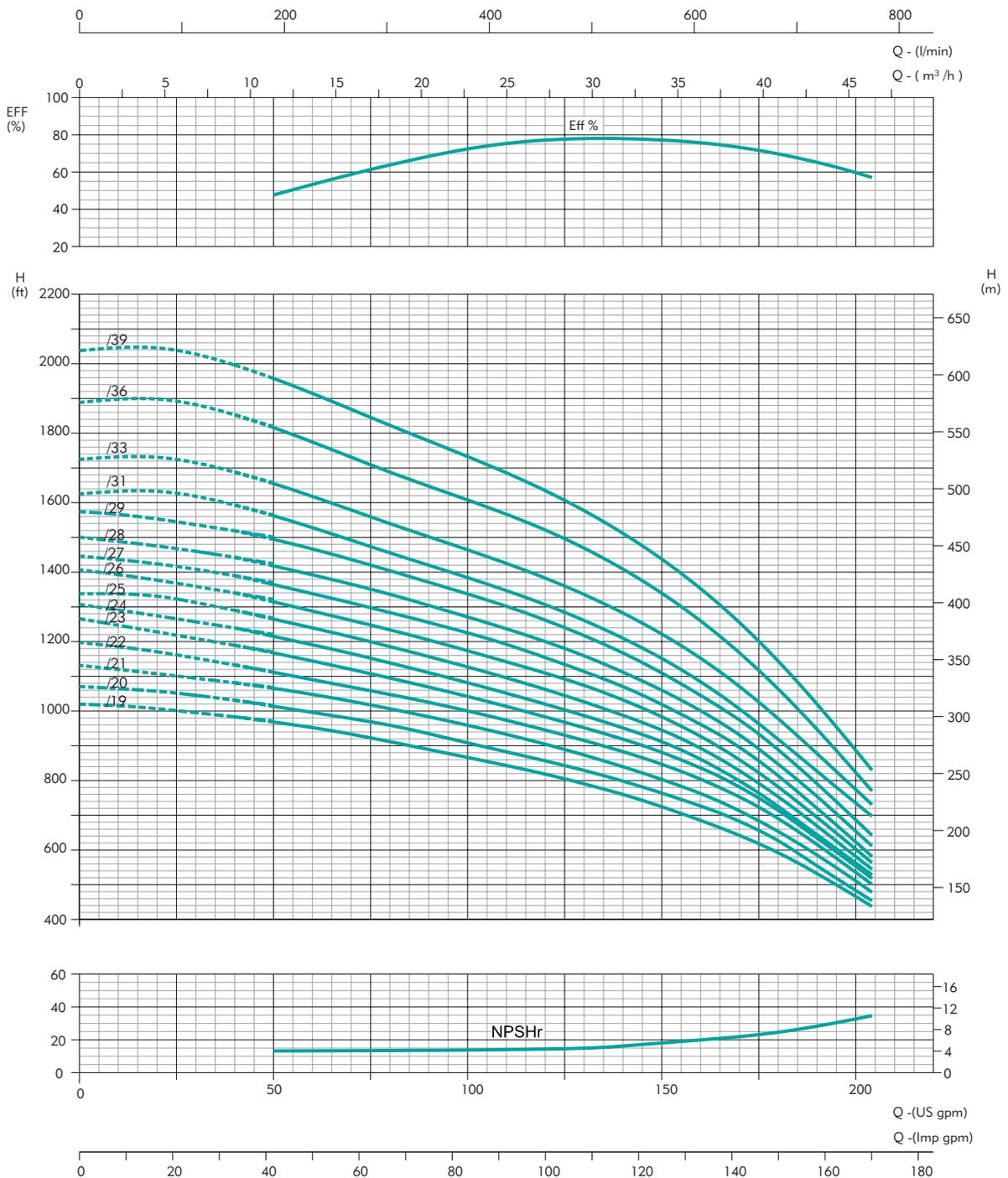
PERFORMANCE CURVES

TS / TN SERIES > 6" > 150 GPM

Model : **TS 150 - 150**

Outlet Size : **3" NPT**

3450 rpm



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

PERFORMANCE DATA

TS / TN SERIES > 6" > 150 GPM

Model : **TS 150 - 150**

Outlet Size : **3" NPT**

3450 rpm

Pump Model	Power		m ³ /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 METER	309	295	265	220	143
TS150-150/20	35/40	26/30		326	308	277	233	147
TS150-150/21	40	30		345	325	293	244	156
TS150-150/22	40	30		365	339	305	258	165
TS150-150/23	40	30		386	356	318	270	168
TS150-150/24	50	37		397	369	331	278	171
TS150-150/25	50	37		408	386	343	289	178
TS150-150/26	50	37		428	401	358	301	183
TS150-150/27	50	37		440	418	373	309	189
TS150-150/28	50	37		457	432	389	326	203
TS150-150/29	60	45		481	457	407	338	210
TS150-150/31	60	45		495	479	421	351	221
TS150-150/33	60	45		526	505	448	372	236
TS150-150/36-8	75	55		576	555	490	410	251
TS150-150/39-8	75	55		623	596	527	436	268

* 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	5.4	5.7	83.23	92
TS150-150/20	5.4	5.7	87.01	97
TS150-150/21	5.4	5.7	90.79	101
TS150-150/22	5.4	5.7	94.57	105
TS150-150/23	5.4	5.7	98.35	109
TS150-150/24	5.4	5.7	102.13	113
TS150-150/25	5.4	5.7	105.91	117
TS150-150/26	5.4	5.7	109.69	122
TS150-150/27	5.4	5.7	113.46	126
TS150-150/28	5.4	5.7	117.24	130
TS150-150/29	5.4	5.7	121.02	134
TS150-150/31	5.4	5.7	128.58	143
TS150-150/33	5.4	5.7	136.14	151
TS150-150/36-8	5.4	5.7	147.48	166
TS150-150/39-8	5.4	5.7	158.82	178

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.



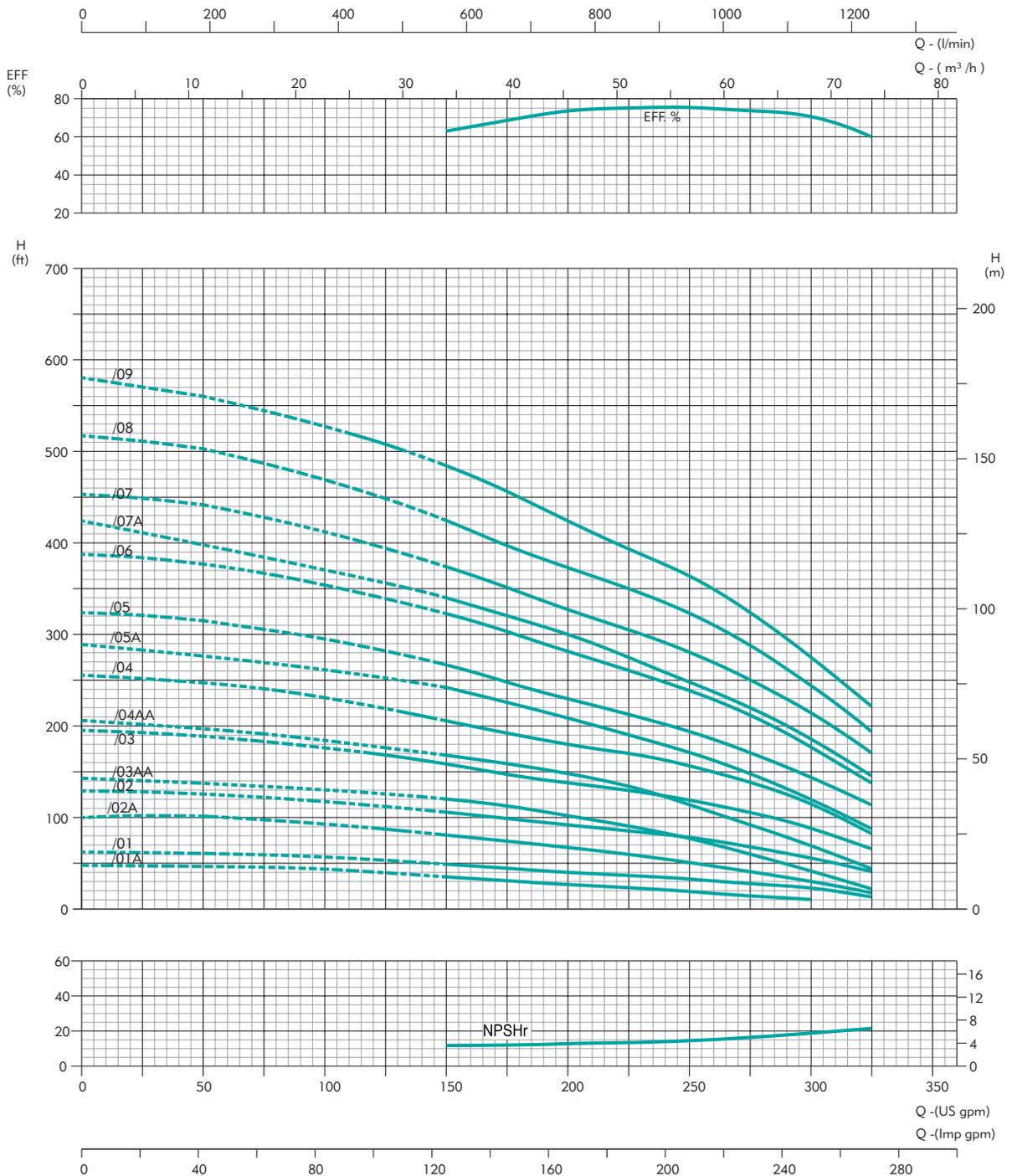
PERFORMANCE CURVES

TS / TN SERIES > 6" > 240 GPM

Model : **TS 150 - 240**

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

3450 rpm



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

PERFORMANCE DATA

TS / TN SERIES > 6" > 240 GPM

Model : **TS 150 - 240**

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

3450 rpm

Pump Model	Power		m ³ /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 METER	15	13	9	3	
TS150-240/01	4	3		16	15	12	7	5
TS150-240/02A	5.5/5	4/4.125		30	24	21	9	5
TS150-240/02	7.5	5.5		38	32	27	17	12
TS150-240/03AA	7.5	5.5		44	37	31	13	7
TS150-240/03	10	7.5		60	49	43	27	16
TS150-240/04AA	10	7.5		63	54	47	21	14
TS150-240/04	12.5/15	9.3/11		78	63	55	35	25
TS150-240/05A	15	11		88	74	64	37	27
TS150-240/05	17.5/20	13/15		98	81	71	44	35
TS150-240/06	20	15		119	99	85	55	42
TS150-240/07A	20	15		129	104	92	57	45
TS150-240/07	25	18.5		137	113	100	66	52
TS150-240/08	25	18.5		158	130	113	75	59
TS150-240/09	30	22		178	149	129	84	67

* 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	6.0	-	15.87	19
TS150-240/01	6.0	-	15.87	19
TS150-240/02A	6.0	-	20.31	24
TS150-240/02	5.8	5.4	20.31	24
TS150-240/03AA	5.8	5.4	24.76	29
TS150-240/03	5.8	5.4	24.76	29
TS150-240/04AA	5.8	5.4	29.21	34
TS150-240/04	5.8	5.4	29.21	34
TS150-240/05A	5.8	5.4	33.66	39
TS150-240/05	5.8	5.4	33.66	39
TS150-240/06	5.8	5.4	38.11	45
TS150-240/07A	5.8	5.4	42.56	50
TS150-240/07	5.8	5.4	42.56	50
TS150-240/08	5.8	5.4	47.01	55
TS150-240/09	5.8	5.4	51.46	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.

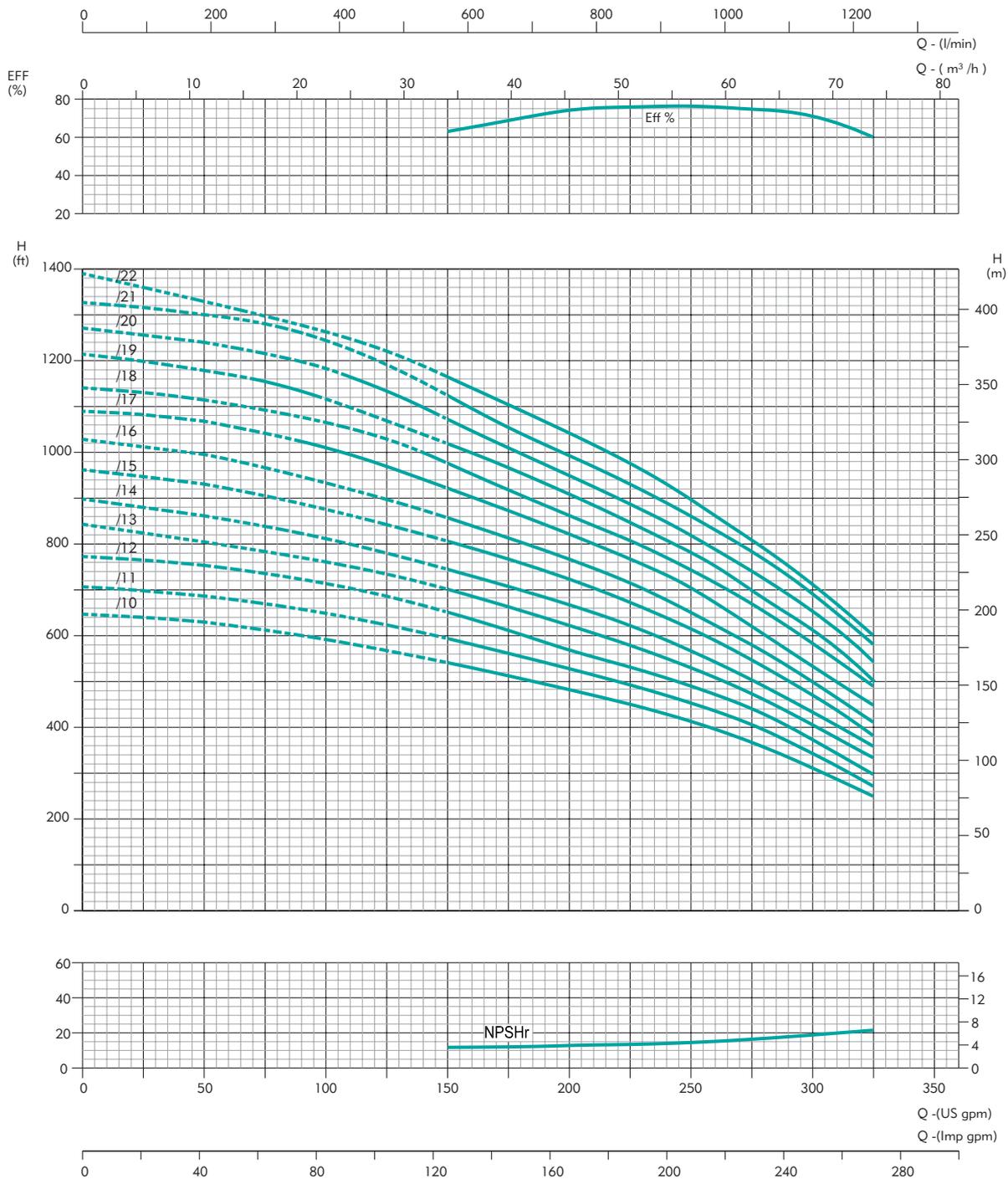
PERFORMANCE CURVES

TS / TN SERIES > 6" > 240 GPM

Model : **TS 150 - 240**

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

3450 rpm



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

PERFORMANCE DATA

TS / TN SERIES > 6" > 240 GPM

Model : **TS 150 - 240**

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

3450 rpm

Pump Model	Power		m ³ /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 METER	195	165	145	94	76
TS150-240/11	35/40	26/30		215	181	159	104	82
TS150-240/12	40	30		236	198	175	100	90
TS150-240/13	40	30		257	213	191	123	99
TS150-240/14	50	37		275	227	204	134	109
TS150-240/15	50	37		293	245	220	144	115
TS150-240/16	50	37		312	262	235	154	125
TS150-240/17	50	37		334	282	251	165	138
TS150-240/18	60	45		347	298	264	177	142
TS150-240/19	60	45		369	311	277	186	159
TS150-240/20	60	45		390	328	288	200	166
TS150-240/21-8	75	55		404	342	304	210	178
TS150-240/22-8	75	55		424	355	318	218	183

* 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	5.8	5.9	55.91	65
TS150-240/11	5.8	5.9	60.35	70
TS150-240/12	5.8	5.9	64.80	75
TS150-240/13	5.8	5.9	69.25	80
TS150-240/14	5.8	5.9	73.70	85
TS150-240/15	5.8	5.9	78.15	90
TS150-240/16	5.8	5.9	82.60	95
TS150-240/17	5.8	5.9	87.05	100
TS150-240/18	5.8	5.9	91.50	105
TS150-240/19	5.8	5.9	95.94	110
TS150-240/20	5.8	5.9	100.39	115
TS150-240/21-8	5.8	5.9	104.84	123
TS150-240/22-8	5.8	5.9	110.20	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.

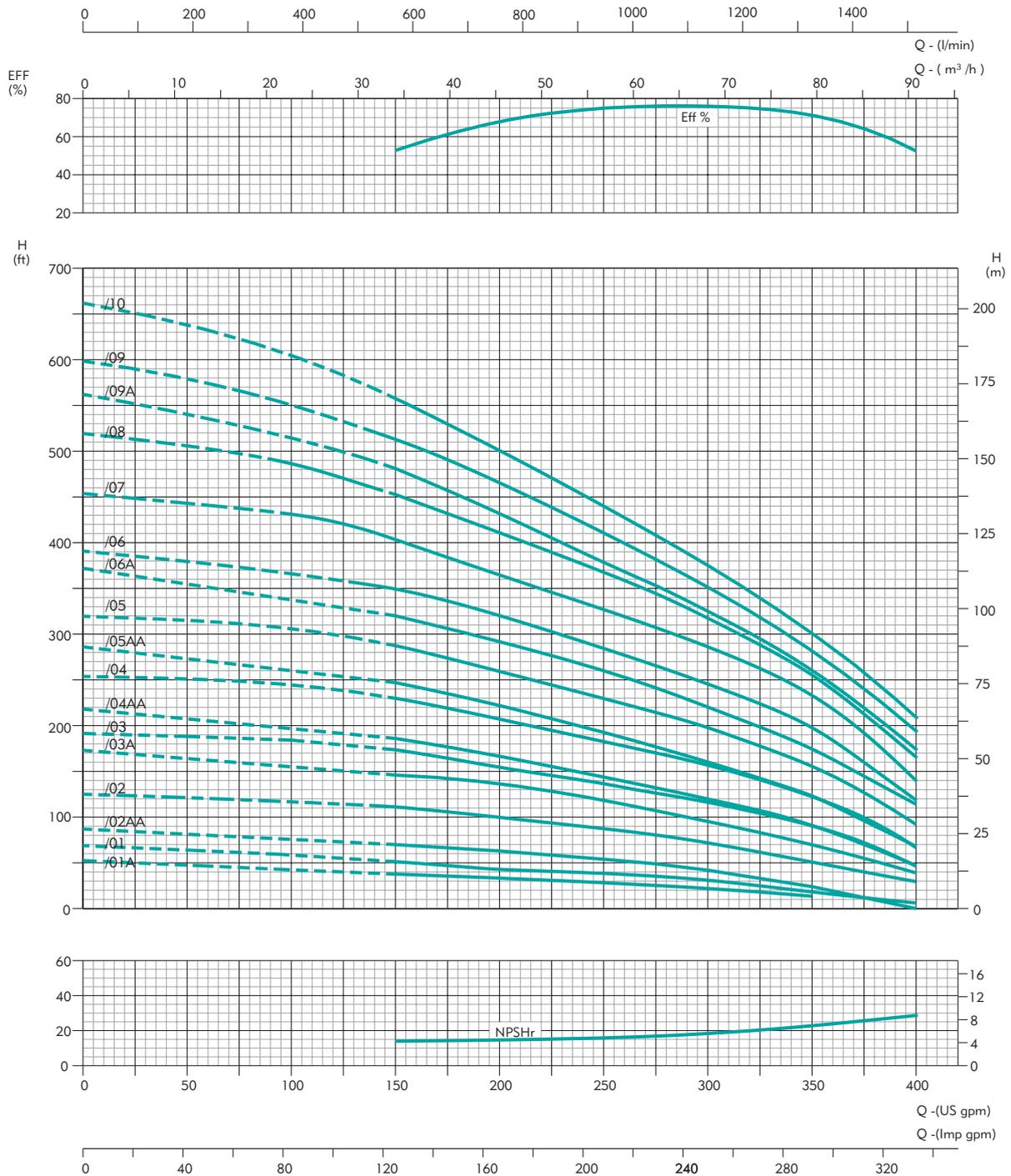
PERFORMANCE CURVES

TS / TN SERIES > 6" > 300 GPM

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" > 300 GPM

Model : **TS 150 - 300**

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

3450 rpm

Pump Model	Power		m ³ /h	0	34	45.42	68.13	90.84
	HP	kW	USGPM	0	150	200	300	400
TS150-300/01 A-4	3	2.2	TOTAL DYNAMIC HEAD IN METER	16	11	11	6	
TS150-300/01	5	3.7		22	15	13	10	2
TS150-300/02AA	5.5	4		27	21	19	13	
TS150-300/02	7.5	5.5		37	34	30	22	9
TS150-300/03A	10	7.5		53	45	42	29	12
TS150-300/03	12.5/15	9.3/11		58	52	47	36	15
TS150-300/04AA	15	11		66	57	50	37	14
TS150-300/04	15	11		77	70	64	48	21
TS150-300/05AA	20	15		87	75	67	49	21
TS150-300/05	17.5/20	13/15		98	87	80	61	29
TS150-300/06A	20	15		113	98	89	67	35
TS150-300/06	20	15		119	107	98	76	37
TS150-300/07	25	18.5		137	123	111	86	43
TS150-300/08	30	22		159	138	126	98	52
TS150-300/09A	30	22		171	147	130	99	53
TS150-300/09	35/40	26/30		183	158	142	107	60
TS150-300/10	35/40	26/30	202	171	152	115	65	

* 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	-	15.87	19
TS150-300/01	5.8	-	15.87	19
TS150-300/02AA	5.8	5.9	20.31	24
TS150-300/02	5.8	5.9	20.31	24
TS150-300/03A	5.8	5.9	24.76	30
TS150-300/03	5.8	5.9	24.76	30
TS150-300/04AA	5.8	5.9	29.21	35
TS150-300/04	5.8	5.9	29.21	35
TS150-300/05AA	5.8	5.9	33.66	40
TS150-300/05	5.8	5.9	33.66	40
TS150-300/06A	5.8	5.9	38.11	45
TS150-300/06	5.8	5.9	38.11	45
TS150-300/07	5.8	5.9	42.56	50
TS150-300/08	5.8	5.9	47.01	56
TS150-300/09A	5.8	5.9	51.46	61
TS150-300/09	5.8	5.9	51.46	61
TS150-300/10	5.8	5.9	55.91	66

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.



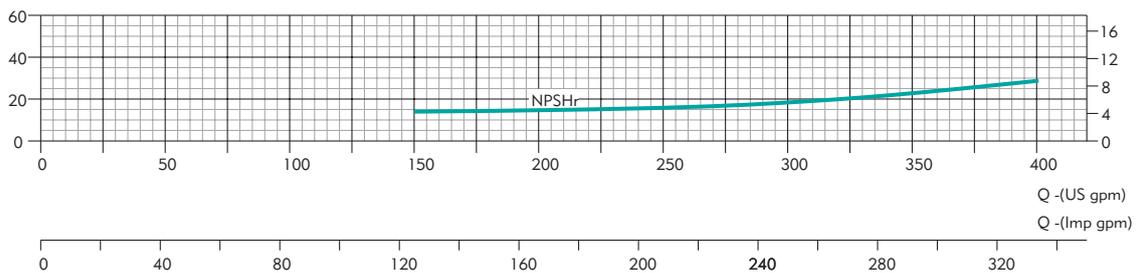
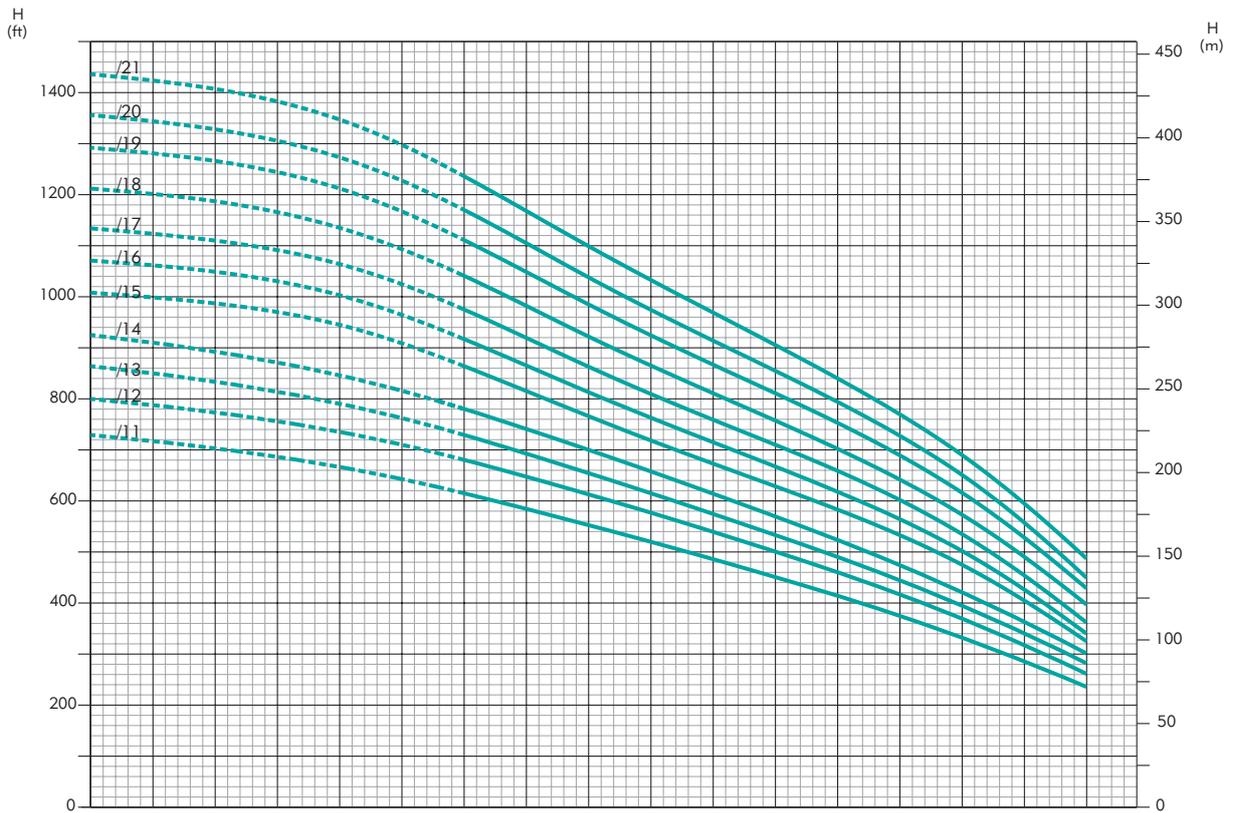
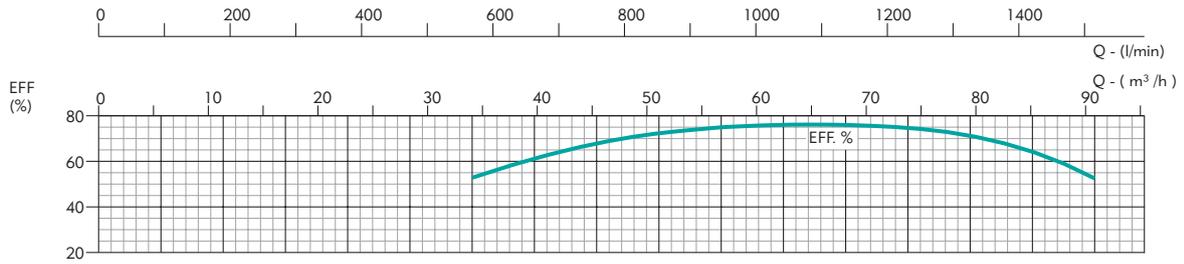
PERFORMANCE CURVES

TS / TN SERIES > 6" > 300 GPM

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" > 300 GPM

Model : **TS 150 - 300**

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

3450 rpm

Pump Model	Power		m ³ /h	0	34	45.42	68.13	90.84
	HP	kW	USGPM	0	150	200	300	400
TS150-300/11	40	30	TOTAL DYNAMIC HEAD IN METER	222	188	168	126	72
TS150-300/12	50	37		244	207	187	127	80
TS150-300/13	50	37		263	223	199	149	85
TS150-300/14	60	45		283	237	213	160	91
TS150-300/15	60	45		306	262	233	178	100
TS150-300/16	60	45		326	280	249	188	105
TS150-300/17	60	45		346	297	264	201	111
TS150-300/18-8	75	55		369	317	282	213	122
TS150-300/19-8	75	55		394	339	299	230	132
TS150-300/20-8	75	55		414	359	317	243	137
TS150-300/21-8	85/100	63/75		439	379	335	256	151

* 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	5.9	60.35	71
TS150-300/12	5.8	5.9	64.80	76
TS150-300/13	5.8	5.9	69.25	82
TS150-300/14	5.8	5.9	73.70	87
TS150-300/15	5.8	5.9	78.15	92
TS150-300/16	5.8	5.9	82.60	97
TS150-300/17	5.8	5.9	87.05	102
TS150-300/18-8	5.8	5.9	91.50	110
TS150-300/19-8	5.8	5.9	95.94	115
TS150-300/20-8	5.8	5.9	100.39	120
TS150-300/21-8	5.8	5.9	104.84	126



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.

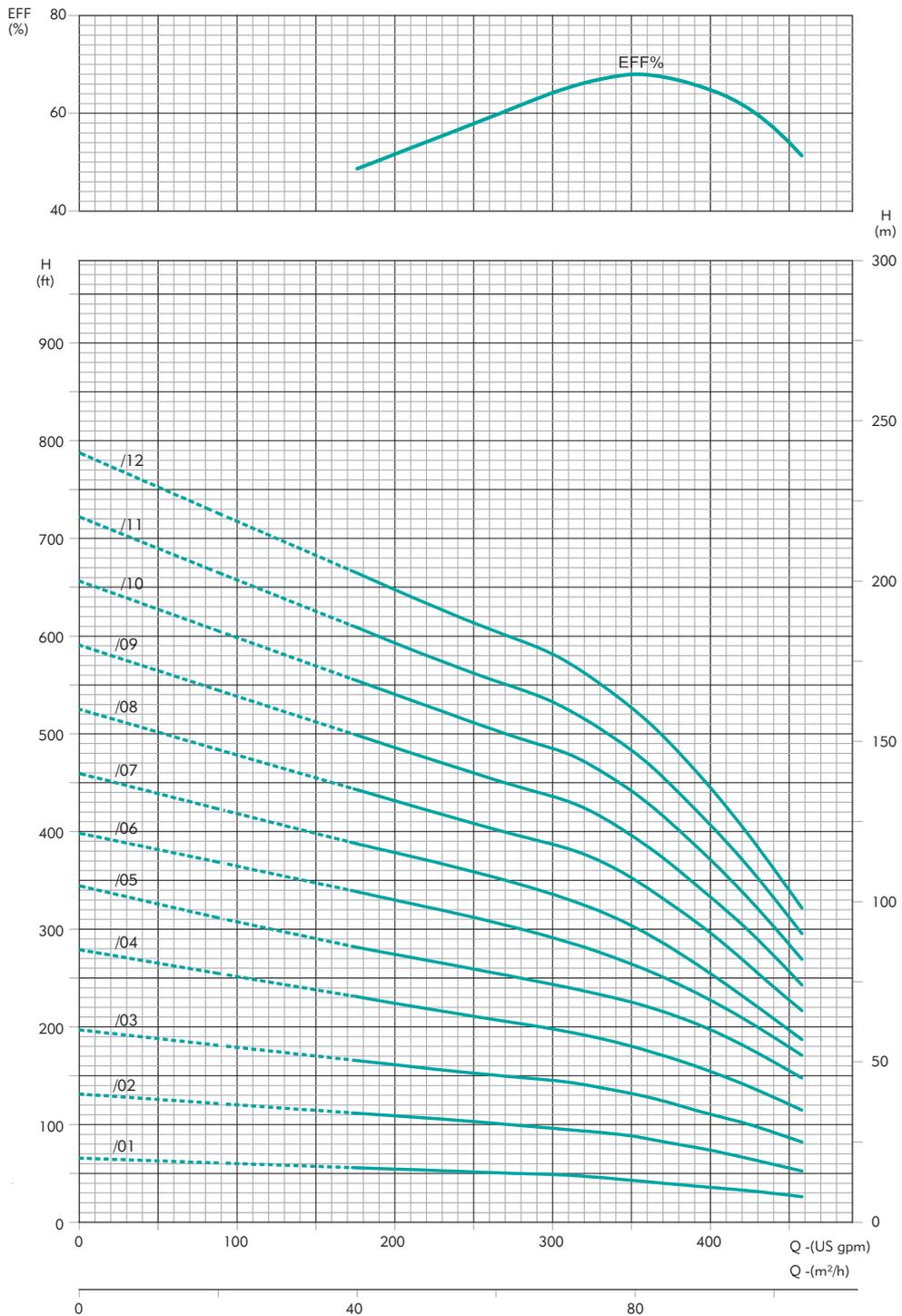
PERFORMANCE CURVES

TS / TN SERIES > 6" > 380 GPM

Model : **TS 150 - 380**

Outlet Size : **4" NPT**

3450 rpm



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

PERFORMANCE DATA

TS / TN SERIES > 6" > 380 GPM

Model : **TS 150 - 380**

Outlet Size : **4" NPT**

3450 rpm

Pump Model	Power		m ³ /h USGPM	0	54	54	54	54	54	54	54	54	54
	HP	kW		0	238	238	238	238	238	238	238	238	238
TS150-380/01	5.5	4	TOTAL DYNAMIC HEAD IN METER	66	52	49	49	43	39	36	33	30	26
TS150-380/02	12.5	9.3		131	105	98	95	89	82	75	66	59	52
TS150-380/03	17.5	13		197	154	148	144	131	121	112	102	92	82
TS150-380/04	25	18.5		279	213	203	194	174	164	151	134	121	108
TS150-380/05	30	22		344	262	249	239	220	207	187	167	151	134
TS150-380/06	35	26		397	315	298	289	262	246	226	200	180	161
TS150-380/07	40	30		459	367	344	335	308	276	262	233	210	187
TS150-380/08	50	37		525	413	394	384	351	318	302	266	239	216
TS150-380/09	50	37		590	469	443	433	394	361	338	302	272	243
TS150-380/10	60	45		656	518	492	482	440	403	377	335	302	269
TS150-380/11	60	45		722	571	544	525	482	443	413	367	331	295
TS150-380/12	60	45		787	623	594	574	525	482	453	400	361	321

* 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	
TS150-380/01	5.96	6.02	18	24.25
TS150-380/02	5.96	6.02	23.7	30.87
TS150-380/03	5.96	6.02	29.3	37.48
TS150-380/04	5.96	6.02	35	44.1
TS150-380/05	5.96	6.02	40.7	50.7
TS150-380/06	5.96	6.02	46.3	57.3
TS150-380/07	5.96	6.02	52	63.94
TS150-380/08	5.96	6.02	57.7	70.56
TS150-380/09	5.96	6.02	63.3	77.18
TS150-380/10	5.96	6.02	69	83.8
TS150-380/11	5.96	6.02	74.7	90.4
TS150-380/12	5.96	6.02	80.3	97.02



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.

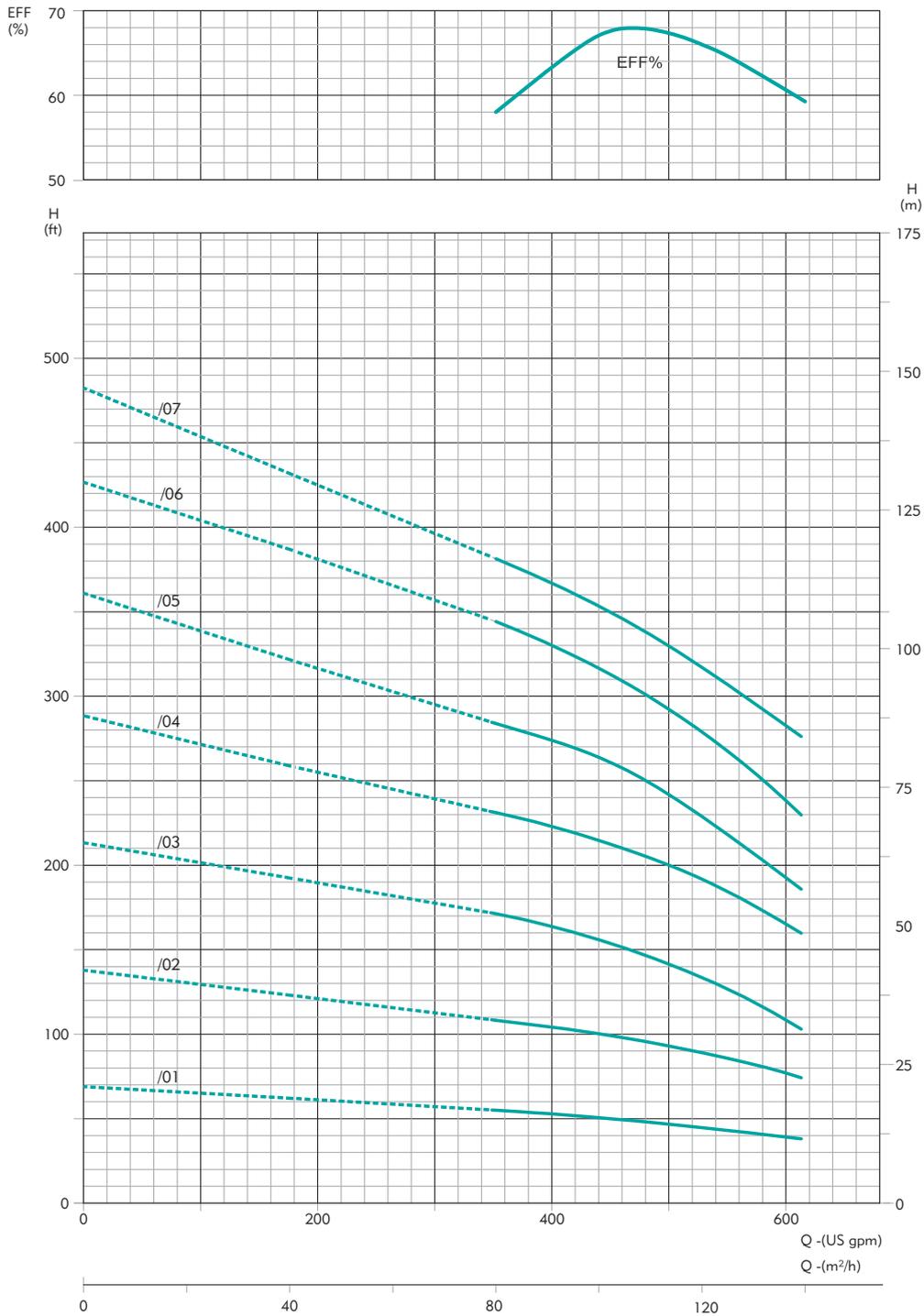
PERFORMANCE CURVES

TS / TN SERIES > 6" > 460 GPM

Model : **TS 150 - 460**

Outlet Size : **4" NPT**

3450 rpm



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

PERFORMANCE DATA

TS / TN SERIES > 6" > 460 GPM

Model : **TS 150 - 460**

Outlet Size : **4" NPT**

3450 rpm

Pump Model	Power		m ³ /h USGPM	0	90	100	105.8	110	115	120	125	130
	HP	kW		0	396	440	460	484	506	528	550	572
TS150-460/01	10	7.5	TOTAL DYNAMIC HEAD IN FEET	69	52	49	49	49	48	46	43	39
TS150-460/02	17.5	13		138	105	102	98	95	92	89	85	75
TS150-460/03	25	18.5		213	164	154	151	144	141	131	125	118
TS150-460/04	35	26		289	220	213	210	203	197	190	184	177
TS150-460/05	40	30		361	276	262	256	249	239	226	216	184
TS150-460/06	50	37		426	331	315	308	298	289	279	269	230
TS150-460/07	60	45		482	364	354	344	335	328	318	308	279

* 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	
TS150-460/01	5.96	6.02	18	24.25
TS150-460/02	5.96	6.02	23.7	30.87
TS150-460/03	5.96	6.02	29.3	37.48
TS150-460/04	5.96	6.02	35	44.1
TS150-460/05	5.96	6.02	40.7	50.7
TS150-460/06	5.96	6.02	46.3	57.3
TS150-460/07	5.96	6.02	52	63.94



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

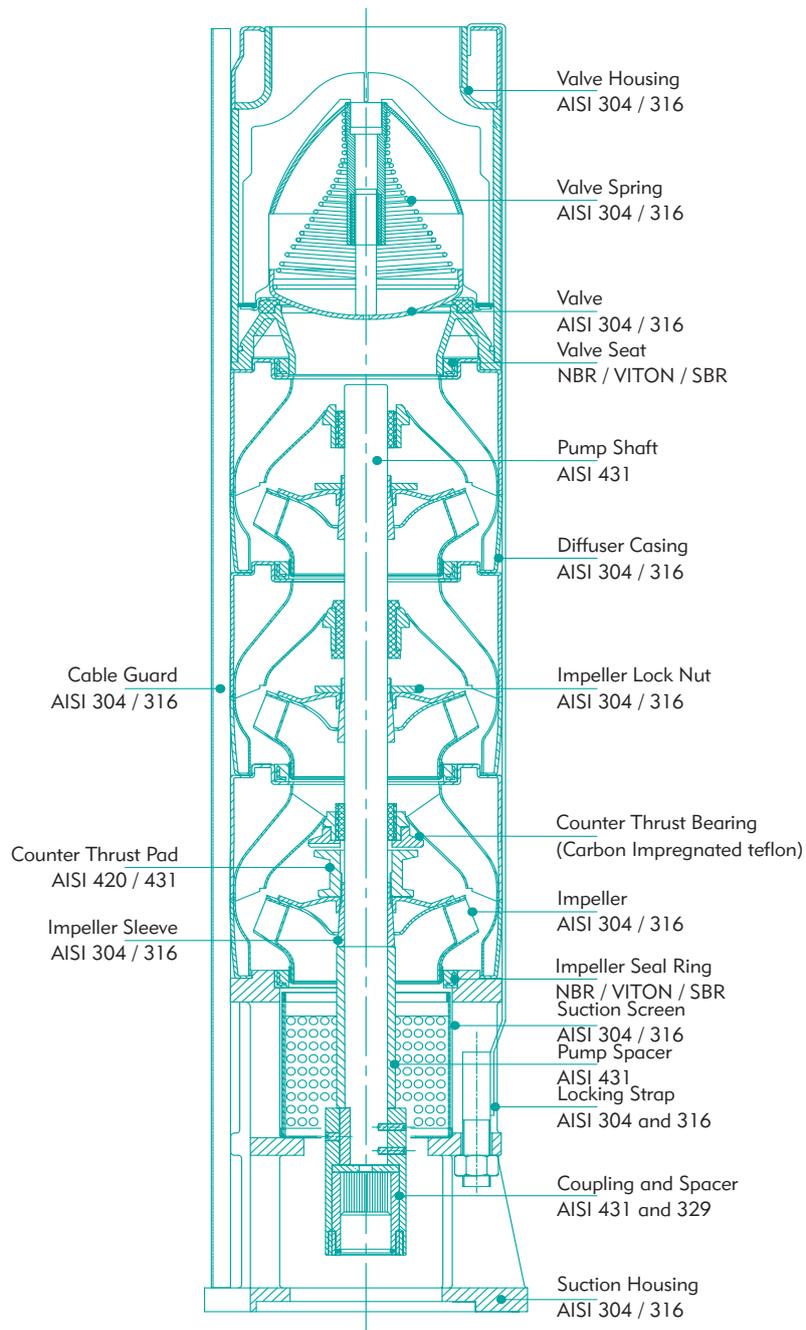
These pumps can also be supplied with BSP standard discharge outlet on request.

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

CONSTRUCTIONAL DATA

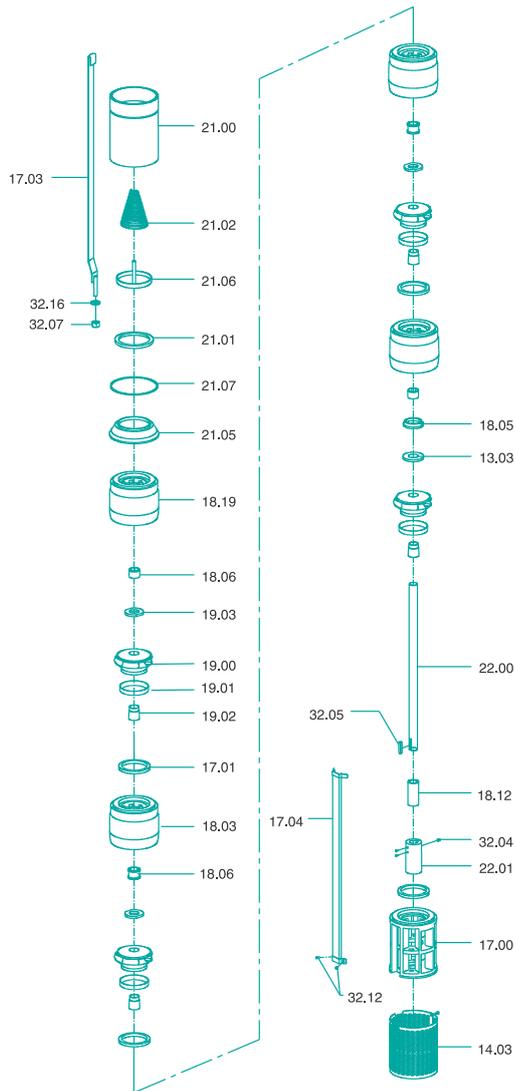
390 / 475 gpm

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



EXPLODED VIEW

390, 475, 625, 800 & 1075 gpm



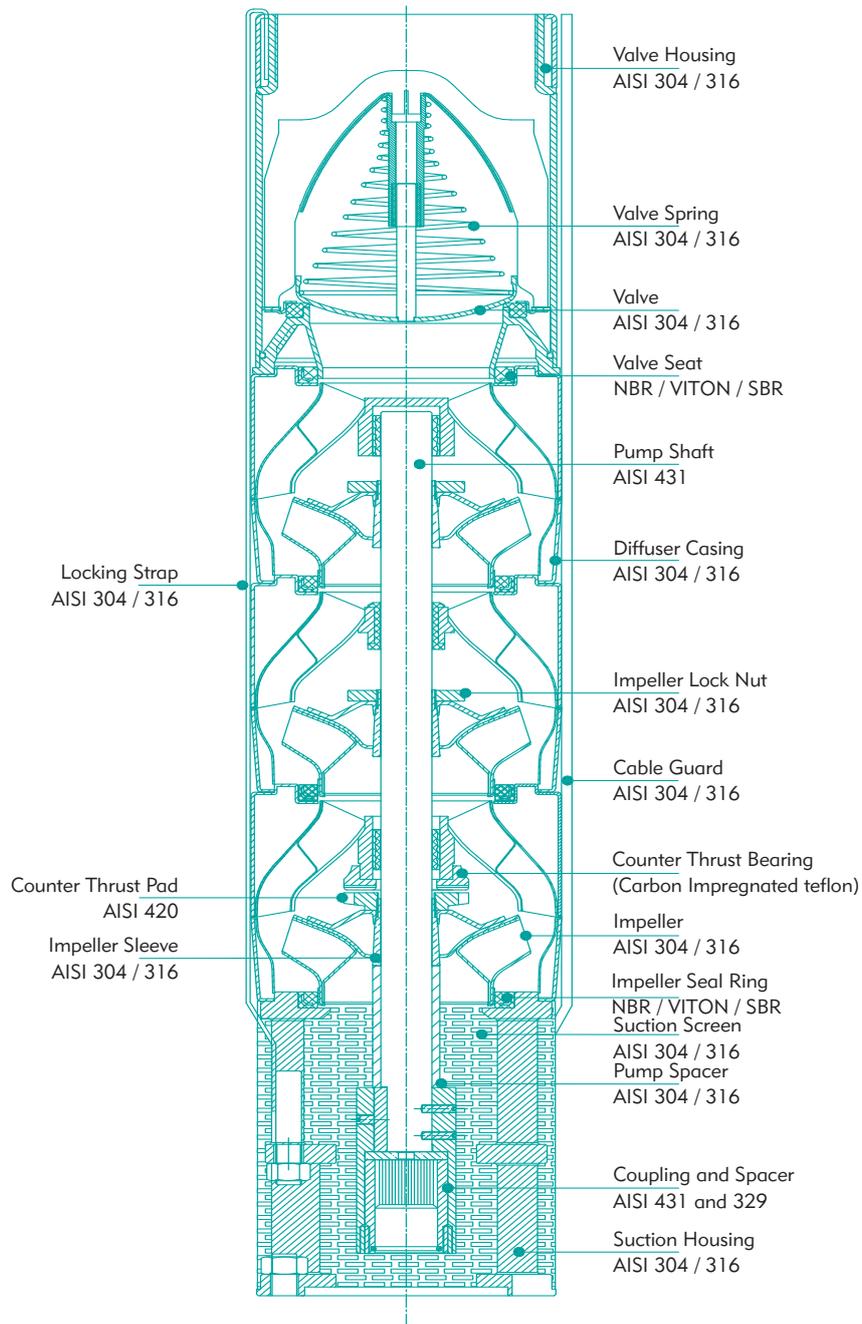
Part No.	Part Name	Part No.	Part Name
13.03	Upthrust Washer	19.03	Split Cone Nut
14.03	Inlet Screen	21.00	Check Valve Housing
17.00	Suction Inter-connector	21.01	Check Valve Seat
17.01	Wear ring	21.02	Check Valve Spring
17.03	Locking Straps	21.05	Check Valve bracket
17.04	Cable Guard	21.06	Check valve Disc
18.03	Diffuser Chamber	21.07	O-Ring
18.05	Bush - CT Pad	22.00	Pump Shaft
18.06	Bush - Diffuser Chamber	22.01	* Coupling
18.12	Spacer Sleeve	32.04	Crub Screw
18.19	Diffuser Chamber Top	32.05	Key
19.01	Neck Ring	32.07	Nut
19.02	Split Cone	32.12	Screw
19.00	Impeller	32.16	Washer

* Upto 125HP - Splines coupling
 150HP & Above - Keyway coupling (standard)
 Splines coupling (optional)

CONSTRUCTIONAL DATA

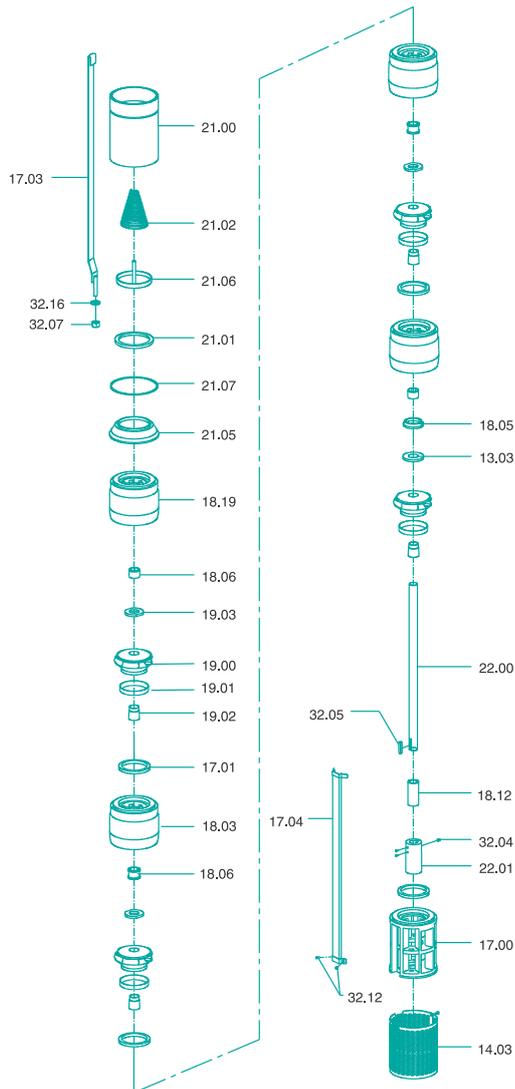
625, 800 & A75 gpm

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



EXPLODED VIEW

390, 475, 625, 800 & 1075 gpm



Part No.	Part Name	Part No.	Part Name
13.03	Upthrust Washer	19.03	Split Cone Nut
14.03	Inlet Screen	21.00	Check Valve Housing
17.00	Suction Inter-connector	21.01	Check Valve Seat
17.01	Wear ring	21.02	Check Valve Spring
17.03	Locking Straps	21.05	Check Valve bracket
17.04	Cable Guard	21.06	Check valve Disc
18.03	Diffuser Chamber	21.07	O-Ring
18.05	Bush - CT Pad	22.00	Pump Shaft
18.06	Bush - Diffuser Chamber	22.01	* Coupling
18.12	Spacer Sleeve	32.04	Crub Screw
18.19	Diffuser Chamber Top	32.05	Key
19.01	Neck Ring	32.07	Nut
19.02	Split Cone	32.12	Screw
19.00	Impeller	32.16	Washer

* Upto 125HP - Splines coupling
 150HP & Above - Keyway coupling (standard)
 Splines coupling (optional)

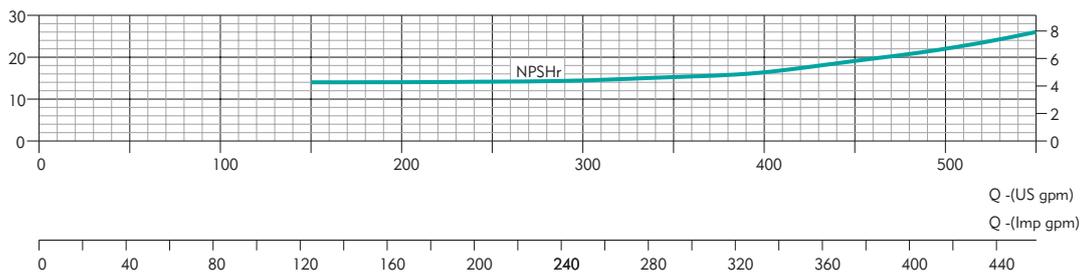
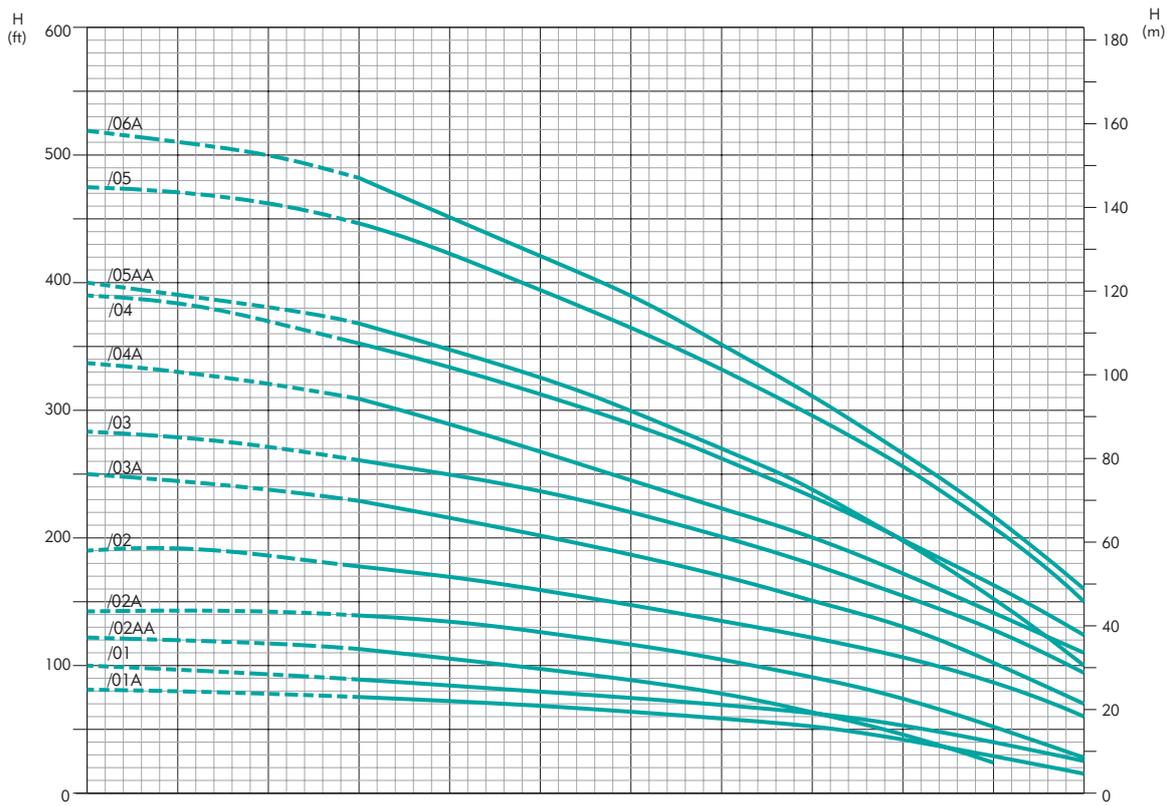
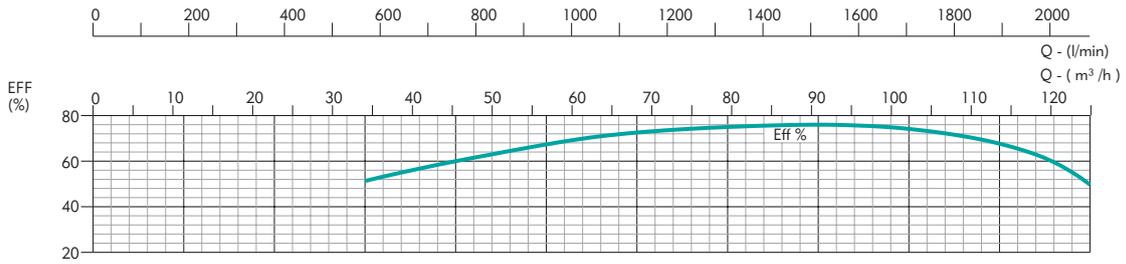
PERFORMANCE CURVES

TS / TN SERIES > 8" > 390 GPM

Model : **TS 200 - 390**

Outlet Size : **4"/5" NPT**

3450 rpm



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

PERFORMANCE DATA

TS / TN SERIES > 8" > 390 GPM

Model : **TS 200 - 390**

Outlet Size : **4"/5" NPT**

3450 rpm

Pump Model	Power		m ³ /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	24	23	21	20	16	9
TS200-390/01-	7.5	5.5		30	27	24	23	20	12
TS200-390/02AA-6	10	7.5		37	34	30	27	19	13
TS200-390/02A-6	15	11		43	42	38	35	27	16
TS200-390/02-6	15	11		58	54	49	45	37	27
TS200-390/03A-6	20	15		76	70	61	55	46	30
TS200-390/03-6	25	18.5		87	79	73	67	54	39
TS200-390/04A-6	25	18.5		103	94	81	75	61	43
TS200-390/04-6	30	22		119	107	95	88	70	49
TS200-390/05AA-6	30	22		122	112	100	91	73	55
TS200-390/05-6	40	30		144	137	121	112	91	64
TS200-390/06A-6	40	30		158	147	128	119	95	66

* 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	
TS200-390/01A-6	6.8	7.0	21.81	48
TS200-390/01-6	6.8	7.0	21.81	48
TS200-390/02AA-6	6.8	7.0	26.85	56
TS200-390/02A-6	6.8	7.0	26.85	56
TS200-390/02-6	6.8	7.0	26.85	56
TS200-390/03A-6	6.8	7.0	31.89	65
TS200-390/03-6	6.8	7.0	31.89	65
TS200-390/04A-6	6.8	7.0	36.93	73
TS200-390/04-6	6.8	7.0	36.93	73
TS200-390/05AA-6	6.8	7.0	41.97	81
TS200-390/05-6	6.8	7.0	41.97	81
TS200-390/06A-6	6.8	7.0	47.01	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.

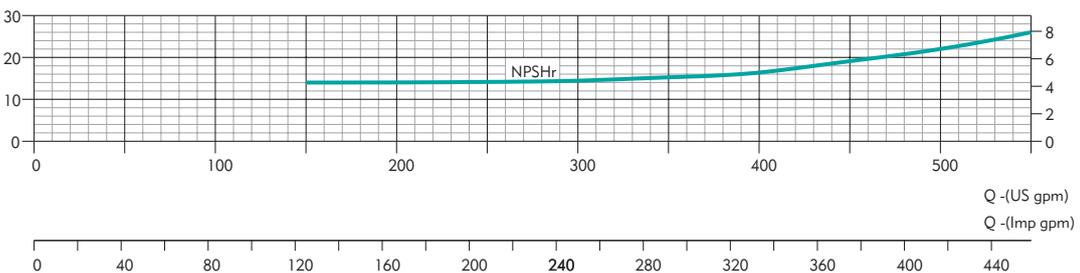
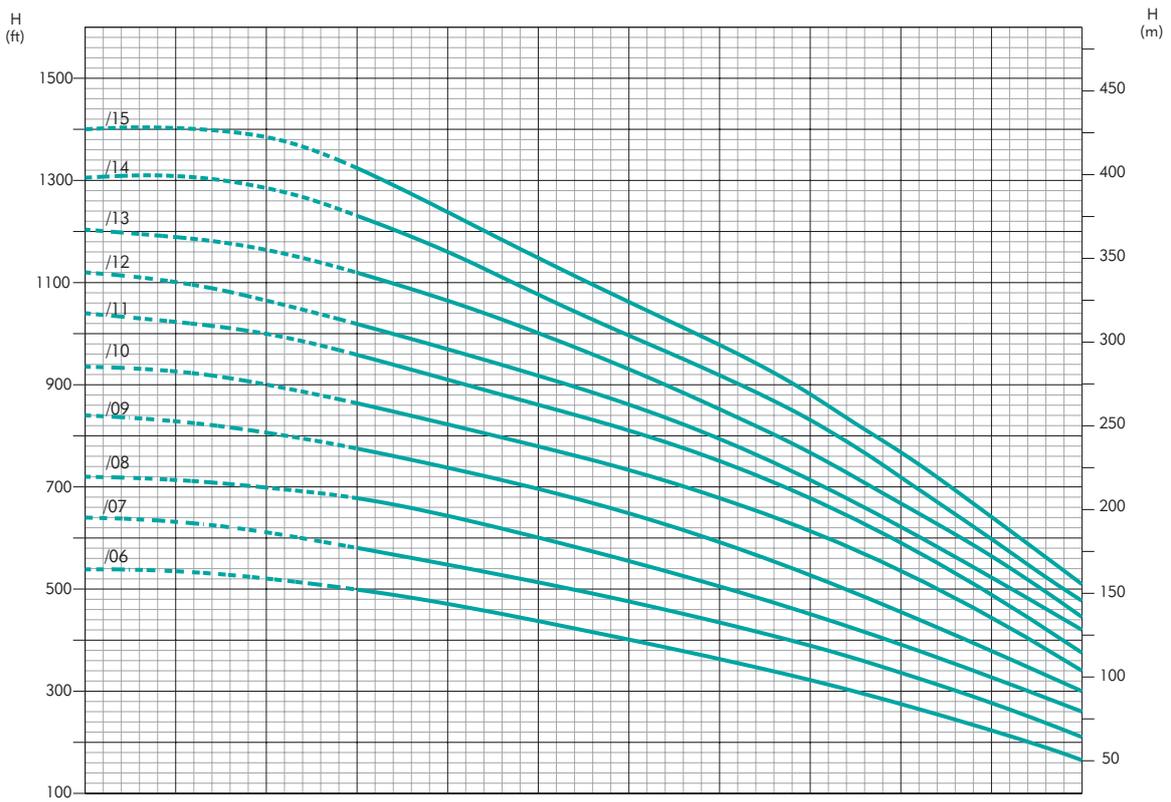
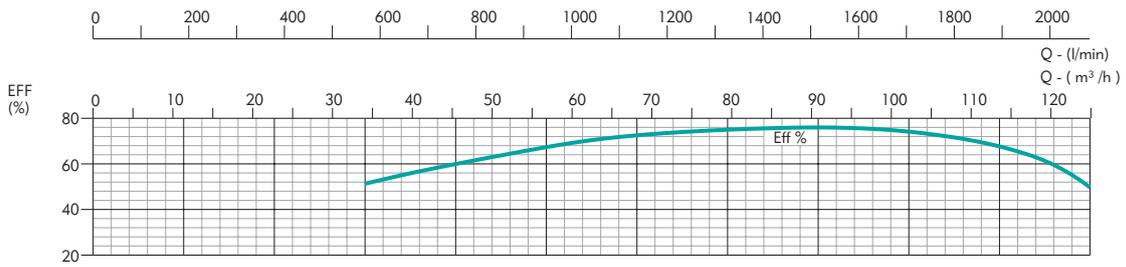
PERFORMANCE CURVES

TS / TN SERIES > 8" > 390 GPM

Model : **TS 200 - 390**

Outlet Size : **4"/5" NPT**

3450 rpm



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

PERFORMANCE DATA

TS / TN SERIES > 8" > 390 GPM

Model : **TS 200 - 390**

Outlet Size : **4"/5" NPT**

3450 rpm

Pump Model	Power		m ³ /h	0	34	57	68.13	90.84	113.55
	HP	kW	USGPM	0	150	250	300	400	500
TS200-390/06-6	50	37	TOTAL DYNAMIC HEAD IN FEET	165	152	134	122	97	67
TS200-390/07-6	60	45		194	178	158	145	121	84
TS200-390/08-6	60	45		218	208	183	169	137	99
TS200-390/09	75	55		257	237	213	198	159	116
TS200-390/10	75	55		286	265	237	225	187	137
TS200-390/11	85/100	63/75		317	293	263	247	209	151
TS200-390/12	100	75		343	312	280	262	218	160
TS200-390/13	100	75		366	341	305	283	235	171
TS200-390/14	125	93		397	373	328	304	255	183
TS200-390/15	125	93		427	402	351	323	268	198

* 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	
TS200-390/06-6	6.8	7.0	47.01	90
TS200-390/07-6	6.8	7.0	52.05	98
TS200-390/08-6	6.8	7.0	57.09	107
TS200-390/09	6.8	7.0	62.13	115
TS200-390/10	6.8	7.0	67.17	123
TS200-390/11	6.8	7.0	72.20	131
TS200-390/12	6.8	7.0	77.24	139
TS200-390/13	6.8	7.0	82.28	147
TS200-390/14	6.8	7.0	87.32	156
TS200-390/15	6.8	7.0	92.36	164



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.

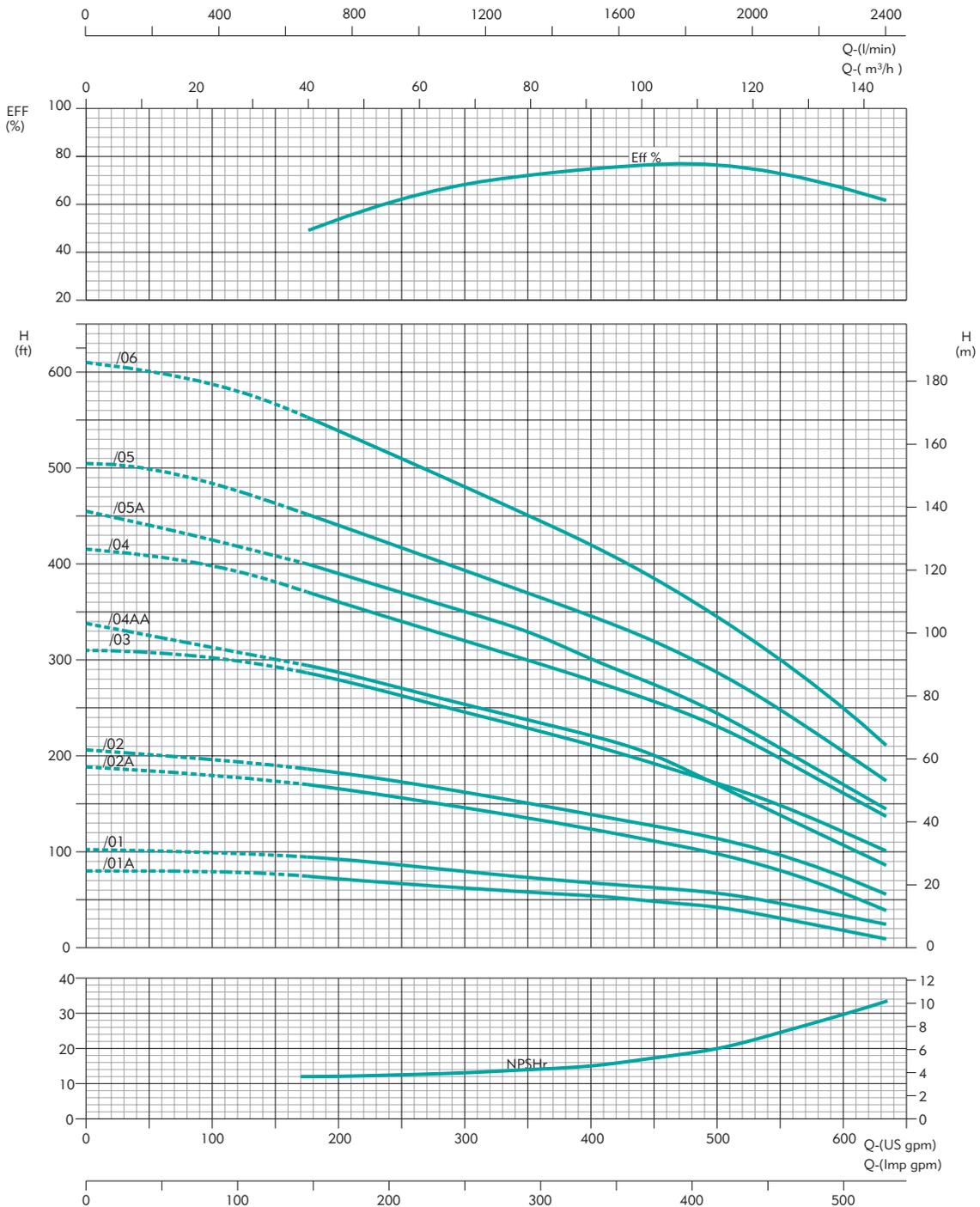
PERFORMANCE CURVES

TS / TN SERIES > 8" > 475 GPM

Model : **TS 200 - 475**

Outlet Size : **5" NPT**

3450 rpm



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

PERFORMANCE DATA

TS / TN SERIES > 8" > 475 GPM

Model : **TS 200 - 475**

Outlet Size : **5" NPT**

3450 rpm

Pump Model	Power		m ³ /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	24	23	19	16	12	6
TS200-475/01-6	10	7.5		31	27	24	22	18	10
TS200-475/02A-6	17.5/20	13/15		57	51	45	39	30	19
TS200-475/02-6	17.5/20	13/15		63	55	50	42	35	23
TS200-475/03-6	30	22		94	85	76	65	37	37
TS200-475/04AA-6	30	22		103	88	77	68	52	33
TS200-475/04-6	40	30		127	110	98	85	69	50
TS200-475/05A-6	40	30		139	119	105	91	75	52
TS200-475/05-6	50	37		154	134	119	106	88	62
TS200-475/06-6	60	45		186	164	146	129	106	76

* 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	
TS200-475/01A-6	6.8	7.0	21.81	49
TS200-475/01-6	6.8	7.0	21.81	49
TS200-475/02A-6	6.8	7.0	26.85	57
TS200-475/02-6	6.8	7.0	26.85	57
TS200-475/03-6	6.8	7.0	31.89	65
TS200-475/04AA-6	6.8	7.0	36.93	73
TS200-475/04-6	6.8	7.0	36.93	73
TS200-475/05A-6	6.8	7.0	41.97	82
TS200-475/05-6	6.8	7.0	41.97	82
TS200-475/06-6	6.8	7.0	47.01	91



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.

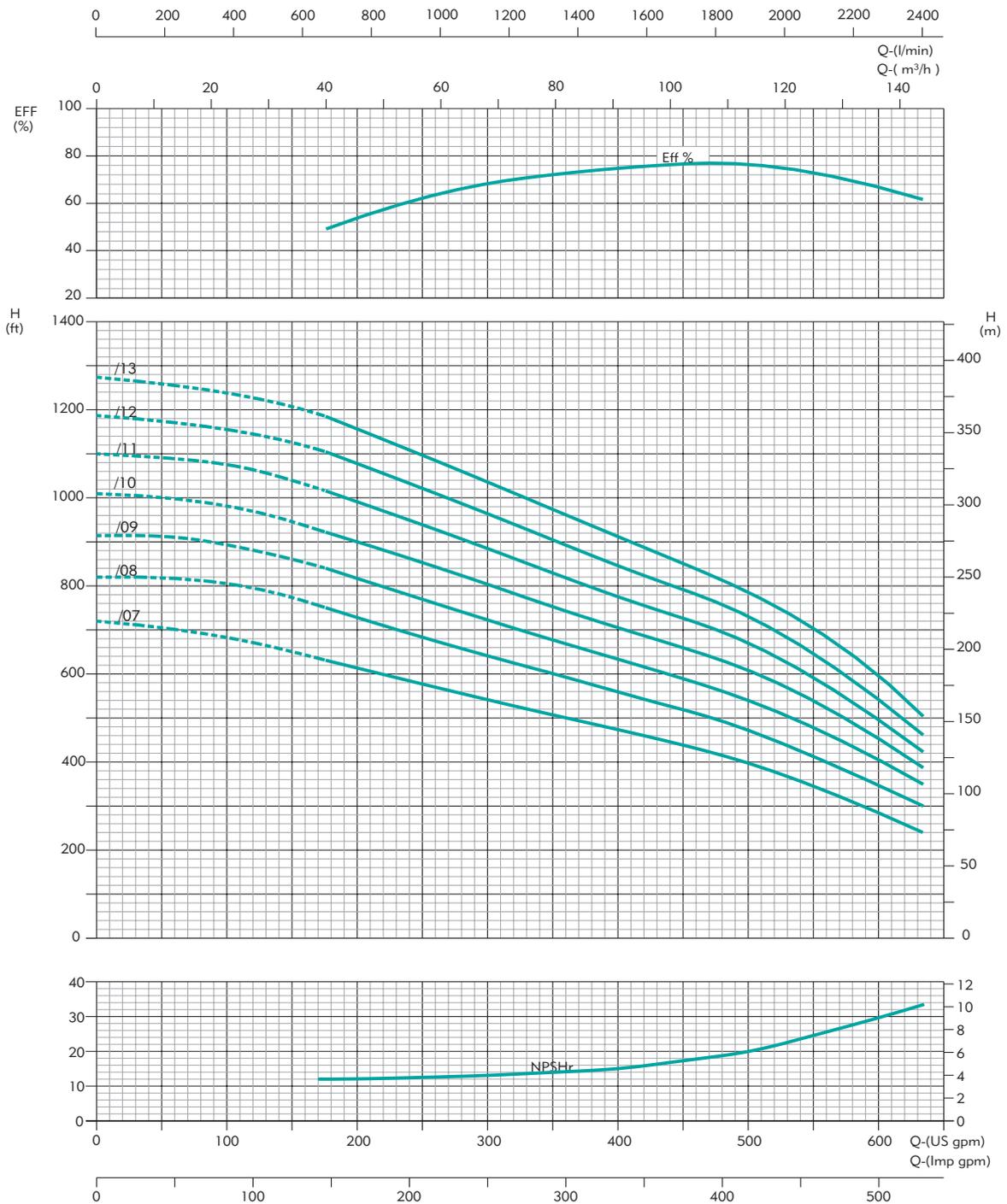
PERFORMANCE CURVES

TS / TN SERIES > 8" > 475 GPM

Model : **TS 200 - 475**

Outlet Size : **5" NPT**

3450 rpm



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

PERFORMANCE DATA

TS / TN SERIES > 8" > 475 GPM

Model : **TS 200 - 475**

Outlet Size : **5" NPT**

3450 rpm

Pump Model	Power		m ³ /h	0	45.42	68.13	90.84	113.55	136
	HP	kW	USGPM	0	200	300	400	500	600
TS200-475/07-6	60	45	TOTAL DYNAMIC HEAD IN FEET	219	187	165	145	121	86
TS200-475/08	75	55		249	221	196	171	145	106
TS200-475/09	100	75		278	249	221	194	165	123
TS200-475/10	100	75		308	274	245	216	186	137
TS200-475/11	100	75		335	303	268	237	205	152
TS200-475/12	125	93		362	332	294	259	221	167
TS200-475/13	125	93		390	356	317	279	237	182

* 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	
TS200-475/07-6	6.8	7.0	52.05	100
TS200-475/08	6.8	7.0	57.09	108
TS200-475/09	6.8	7.0	62.13	117
TS200-475/10	6.8	7.0	67.17	125
TS200-475/11	6.8	7.0	72.20	134
TS200-475/12	6.8	7.0	77.24	142
TS200-475/13	6.8	7.0	82.28	151



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.

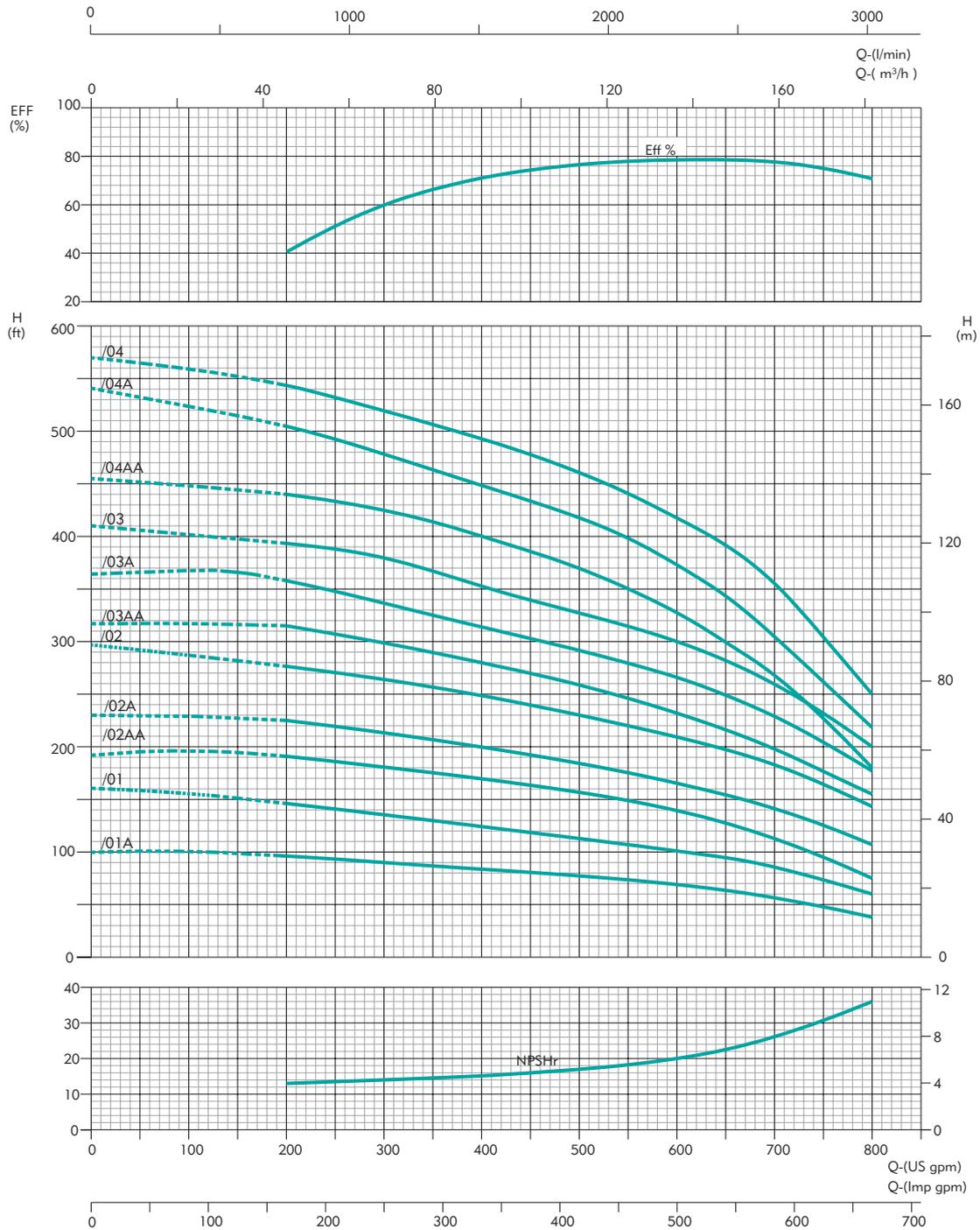
PERFORMANCE CURVES

TS / TN SERIES > 10" > 625 GPM

Model : **TS 250 - 625**

Outlet Size : **6" NPT**

3450 rpm



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

PERFORMANCE DATA

TS / TN SERIES > 10" > 625 GPM

Model : **TS 250 - 625**

Outlet Size : **6" NPT**

3450 rpm

Pump Model	Power		m ³ /h	0	45.42	90.84	136	159	181.68
	HP	kW	USGPM	0	200	400	600	700	800
TS250-625/01A-6	15	11	TOTAL DYNAMIC HEAD IN FEET	30	29	27	21	17	12
TS250-625/01-6	25	18.5		52	45	38	31	26	19
TS250-625/02AA-6	30	22		59	58	52	42	34	26
TS250-625/02A-6	30	22		70	69	60	50	43	33
TS250-625/02-6	40	30		91	84	76	64	55	44
TS250-625/03AA-8	50	37		97	96	85	71	60	47
TS250-625/03A-8	50	37		111	109	96	81	70	54
TS250-625/03-8	60	45		125	120	107	91	79	61
TS250-625/04AA-8	75	55		139	138	122	102	82	56
TS250-625/04A-8	75	55		165	154	137	114	93	67
TS250-625/04-8	85/100	63/75		174	166	150	127	108	76

* 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	
TS250-625/01A-6	8.3	8.5	25.35	68
TS250-625/01-6	8.3	8.5	25.35	68
TS250-625/02AA-6	8.3	8.5	31.42	81
TS250-625/02A-6	8.3	8.5	31.42	81
TS250-625/02-6	8.3	8.5	31.42	81
TS250-625/03AA-8	8.3	8.5	37.48	95
TS250-625/03A-8	8.3	8.5	37.48	95
TS250-625/03-8	8.3	8.5	37.48	95
TS250-625/04AA-8	8.3	8.5	43.54	108
TS250-625/04A-8	8.3	8.5	43.54	108
TS250-625/04-8	8.3	8.5	43.54	108

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.



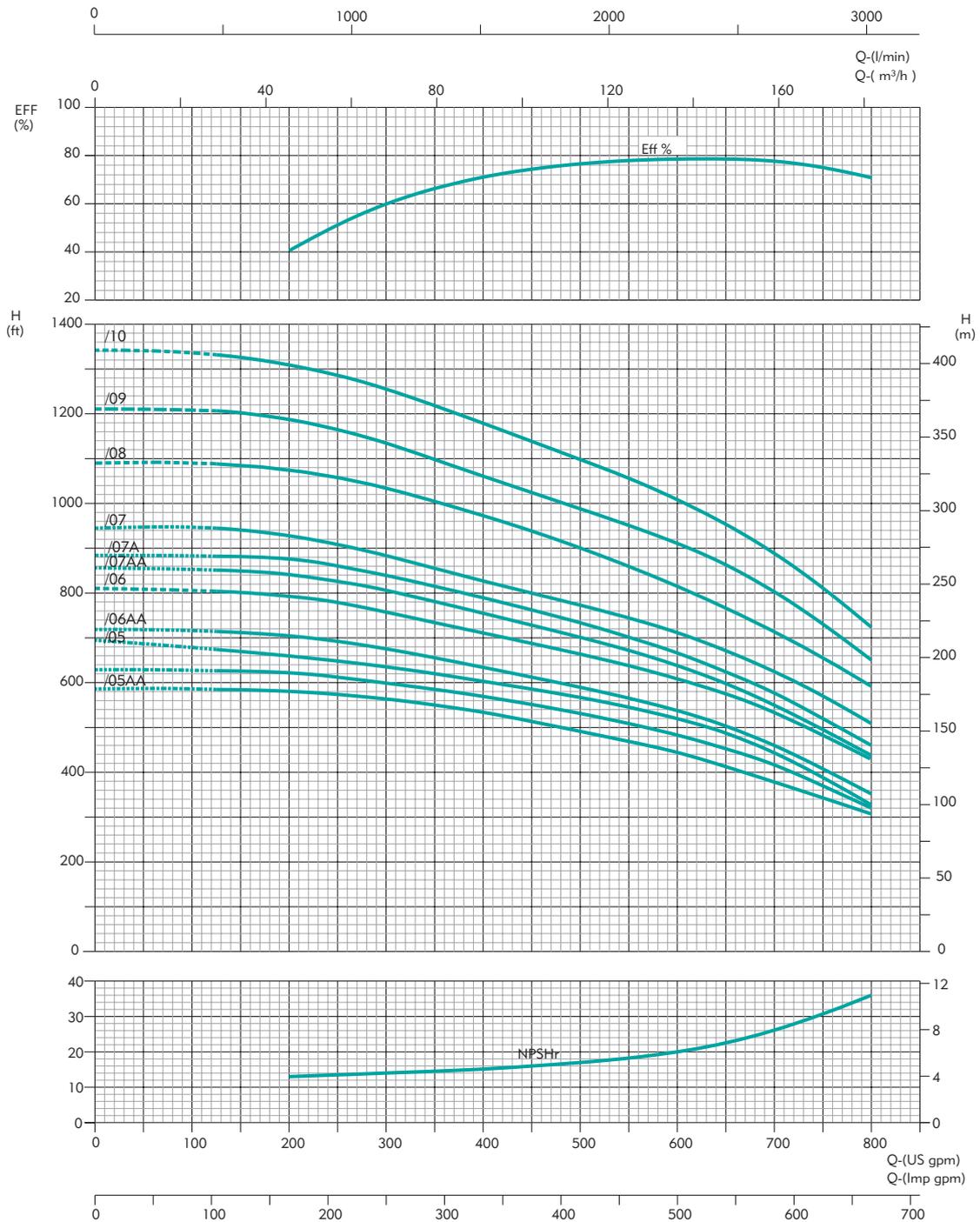
PERFORMANCE CURVES

TS / TN SERIES > 10" > 625 GPM

Model : **TS 250 - 625**

Outlet Size : **6" NPT**

3450 rpm



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

PERFORMANCE DATA

TS / TN SERIES > 10" > 625 GPM

Model : **TS 250 - 625**

Outlet Size : **6" NPT**

3450 rpm

Pump Model	Power		m ³ /h	0	45.42	90.84	136	159	181.68
	HP	kW	USGPM	0	200	400	600	700	800
TS250-625/05AA-8	100	75	TOTAL DYNAMIC HEAD IN FEET	179	178	163	136	116	94
TS250-625/05A-8	100	75		192	191	174	148	128	98
TS250-625/05-8	100	75		212	201	184	158	135	99
TS250-625/06AA-8	100	75		219	214	193	164	140	107
TS250-625/06-8	125	93		247	242	216	186	163	131
TS250-625/07AA-8	125	93		262	256	230	194	168	134
TS250-625/07A	150	110		269	269	241	204	177	140
TS250-625/07	150	110		288	282	252	216	190	155
TS250-625/08	175	132		332	327	296	248	217	181
TS250-625/09	175	132		369	361	323	279	246	200
TS250-625/10	200	150		409	399	360	307	271	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	
TS250-625/05AA-8	8.3	8.5	49.61	122
TS250-625/05A-8	8.3	8.5	49.61	122
TS250-625/05-8	8.3	8.5	49.61	122
TS250-625/06AA-8	8.3	8.5	55.67	135
TS250-625/06-8	8.3	8.5	55.67	135
TS250-625/07AA-8	8.3	8.5	61.73	149
TS250-625/07A	8.3	8.5	61.73	149
TS250-625/07	8.3	8.5	61.73	149
TS250-625/08	8.3	8.5	67.80	162
TS250-625/09	8.3	8.5	73.86	176
TS250-625/10	8.3	8.5	79.92	189

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.



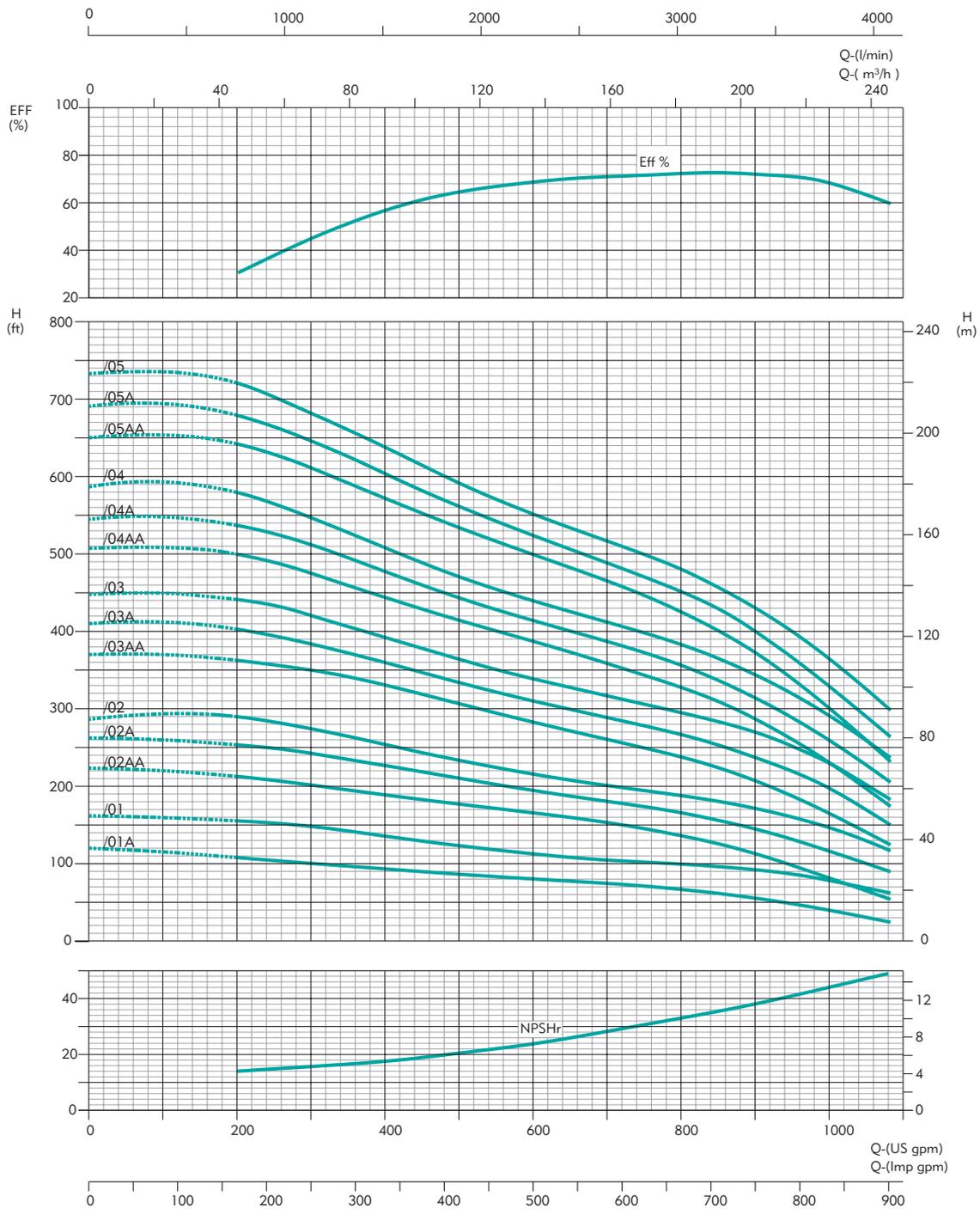
PERFORMANCE CURVES

TS / TN SERIES > 10" > 800 GPM

Model : **TS 250 - 800**

Outlet Size : **6"**

3450 rpm



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

PERFORMANCE DATA

TS / TN SERIES > 10" > 800 GPM

Model : **TS 250 - 800**

Outlet Size : **6"**

3450 rpm

Pump Model	Power		m ³ /h	0	45.42	90.84	136	181.68	245.94
	HP	kW	USGPM	0	200	400	600	800	1083
TS250-800/01A-6	20	15	TOTAL DYNAMIC HEAD IN FEET	37	33	28	24	20	8
TS250-800/01-6	30	22		49	48	41	34	30	19
TS250-800/02AA-6	35/40	26/30		68	65	57	50	41	16
TS250-800/02A-8	50	37		80	77	69	59	50	27
TS250-800/02-8	50	37		87	88	77	66	58	36
TS250-800/03AA-8	60	45		113	111	101	86	73	38
TS250-800/03A-8	75	55		125	123	110	94	81	46
TS250-800/03-8	75	55		137	135	119	103	90	55
TS250-800/04AA-8	100	75		155	152	135	118	100	53
TS250-800/04A-8	100	75		166	164	146	126	109	63
TS250-800/04-8	100	75		179	177	155	134	117	73
TS250-800/05AA-8	125	93		198	196	174	152	130	71
TS250-800/05A-8	125	93		210	207	184	159	137	80
TS250-800/05-8	125	93		223	219	194	168	146	91

* 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	
TS250-800/01A-6	8.3	8.6	25.43	67
TS250-800/01-6	8.3	8.6	25.43	67
TS250-800/02AA-6	8.3	8.6	31.57	80
TS250-800/02A-8	8.3	8.6	31.57	80
TS250-800/02-8	8.3	8.6	31.57	80
TS250-800/03AA-8	8.3	8.6	37.72	94
TS250-800/03A-8	8.3	8.6	37.72	94
TS250-800/03-8	8.3	8.6	37.72	94
TS250-800/04AA-8	8.3	8.6	43.86	108
TS250-800/04A-8	8.3	8.6	43.86	108
TS250-800/04-8	8.3	8.6	43.86	108
TS250-800/05AA-8	8.3	8.6	50.00	123
TS250-800/05A-8	8.3	8.6	50.00	123
TS250-800/05-8	8.3	8.6	50.00	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.



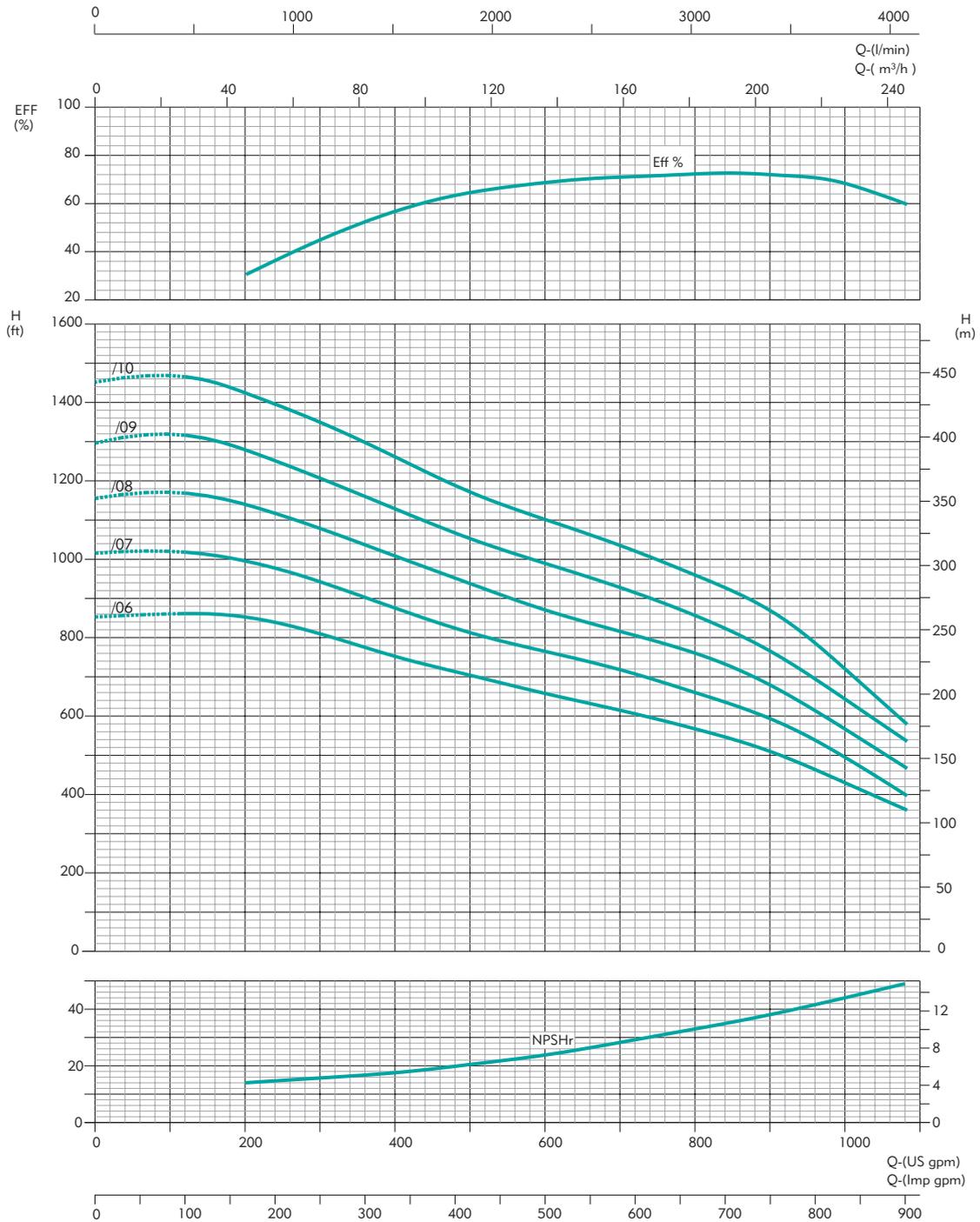
PERFORMANCE CURVES

TS / TN SERIES > 10" > 800 GPM

Model : **TS 250 - 800**

Outlet Size : **6"**

3450 rpm



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

PERFORMANCE DATA

TS / TN SERIES > 10" > 800 GPM

Model : **TS 250 - 800**

Outlet Size : **6"**

3450 rpm

Pump Model	Power		m ³ /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	260	259	228	202	172	111
TS250-800/07	175	132		310	301	265	234	201	122
TS250-800/08	200	150		352	347	308	265	232	143
TS250-800/09	225/250	170/187		396	391	343	300	262	165
TS250-800/10	250	187		443	434	384	335	292	178

* 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	
TS250-800/06	8.3	8.6	56.14	136
TS250-800/07	8.3	8.6	62.28	150
TS250-800/08	8.3	8.6	68.43	164
TS250-800/09	8.3	8.6	74.57	184
TS250-800/10	8.3	8.6	80.71	198



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.

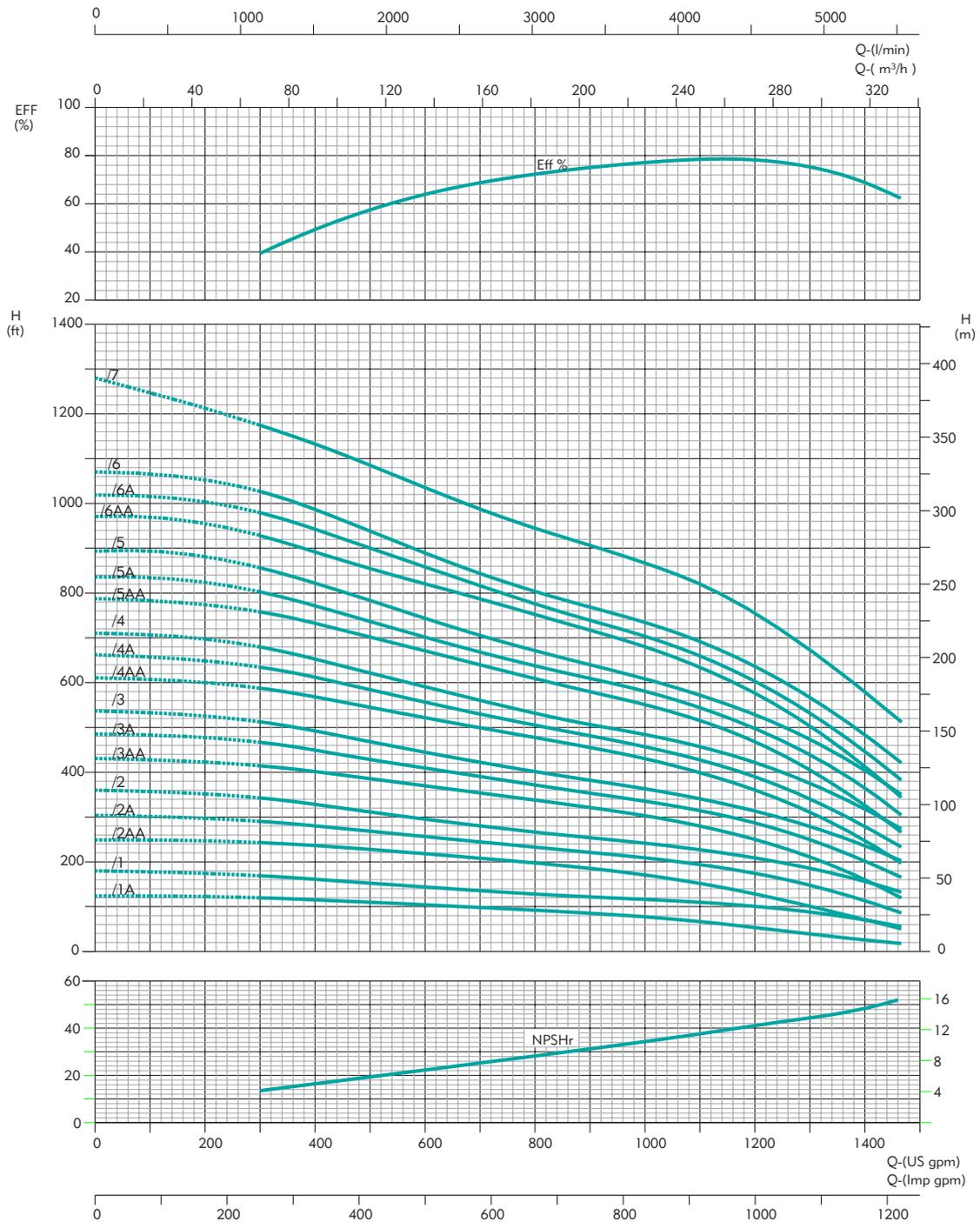
PERFORMANCE CURVES

TS / TN SERIES > 10" > A75 GPM

Model : **TS 250 - A75**

Outlet Size : **6"**

3450 rpm



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

PERFORMANCE DATA

TS / TN SERIES > 10" > A75 GPM

Model : **TS 250 - A75**

Outlet Size : **6"**

3450 rpm

Pump Model	Power		m ³ /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	37	36	32	27	16	8
TS250-A75/01-6	40	30		55	53	43	40	30	21
TS250-A75/02AA-8	60	45		76	76	68	61	40	21
TS250-A75/02A-8	75	55		92	91	79	71	53	34
TS250-A75/02-8	100	75		110	107	90	81	64	48
TS250-A75/03AA-8	100	75		131	128	113	103	76	48
TS250-A75/03A-8	125	93		148	146	125	113	87	61
TS250-A75/03-8	125	93		164	160	136	122	96	72
TS250-A75/04AA	150	110		186	183	158	145	110	76
TS250-A75/04A	150	110		201	198	169	154	119	85
TS250-A75/04	150	110		216	213	180	163	128	98
TS250-A75/05AA	175	130		240	236	204	186	146	101
TS250-A75/05A	175	130		255	251	215	194	152	111
TS250-A75/05	200	150		272	268	226	204	162	123
TS250-A75/06AA	225/250	170/187		296	291	250	230	175	126
TS250-A75/06A	250	187		311	307	262	236	184	136
TS250-A75/06	250	187		326	321	271	245	194	148
TS250-A75/07	300	220		390	370	316	287	230	175

* 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	
TS250-A75/01A-6	9.7	10.0	31	118
TS250-A75/01-6	9.7	10.0	31	118
TS250-A75/02AA-8	9.7	10.0	38	145
TS250-A75/02A-8	9.7	10.0	38	145
TS250-A75/02-8	9.7	10.0	38	145
TS250-A75/03AA-8	9.7	10.0	45	173
TS250-A75/03A-8	9.7	10.0	45	173
TS250-A75/03-8	9.7	10.0	45	173
TS250-A75/04AA	9.7	10.0	52	201
TS250-A75/04A	9.7	10.0	52	201
TS250-A75/04	9.7	10.0	52	201
TS250-A75/05AA	9.7	10.0	59	228
TS250-A75/05A	9.7	10.0	59	228
TS250-A75/05	9.7	10.0	59	228
TS250-A75/06AA	9.7	10.0	66	256
TS250-A75/06A	9.7	10.0	66	256
TS250-A75/06	9.7	10.0	66	256
TS250-A75/07	9.7	10.0	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

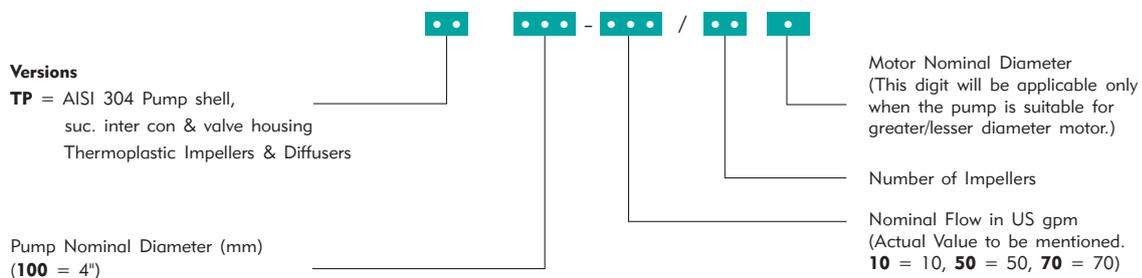
Pumped Liquids

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

a) Temperature	95°F (35°C) (max.)
b) Chlorine ion density	100 ppm (max.)
c) Allowable solids	50 ppm (max.)
d) Specific gravity	1.004 (max.)
e) Hardness (Drinking Water)	300 ppm (max.)
f) Kinematic Viscosity	1 mm ² /sec (1cSt) (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		TP Series
Nominal Diameter		4"
Power Range		0.5 - 10 HP
Speed		3450 rpm
Flow Range	USGPM	3 - 120
	m ³ /h	0.7 - 27
Total Head Range	ft	15 - 1035
	m	4.5 - 315
Outlet size		1 1/4", 1 1/2" & 2"
Max. Operating Pressure		426 (30 bar)
Sand handling capacity		100g/m ³
Shaft Coupling		Splines

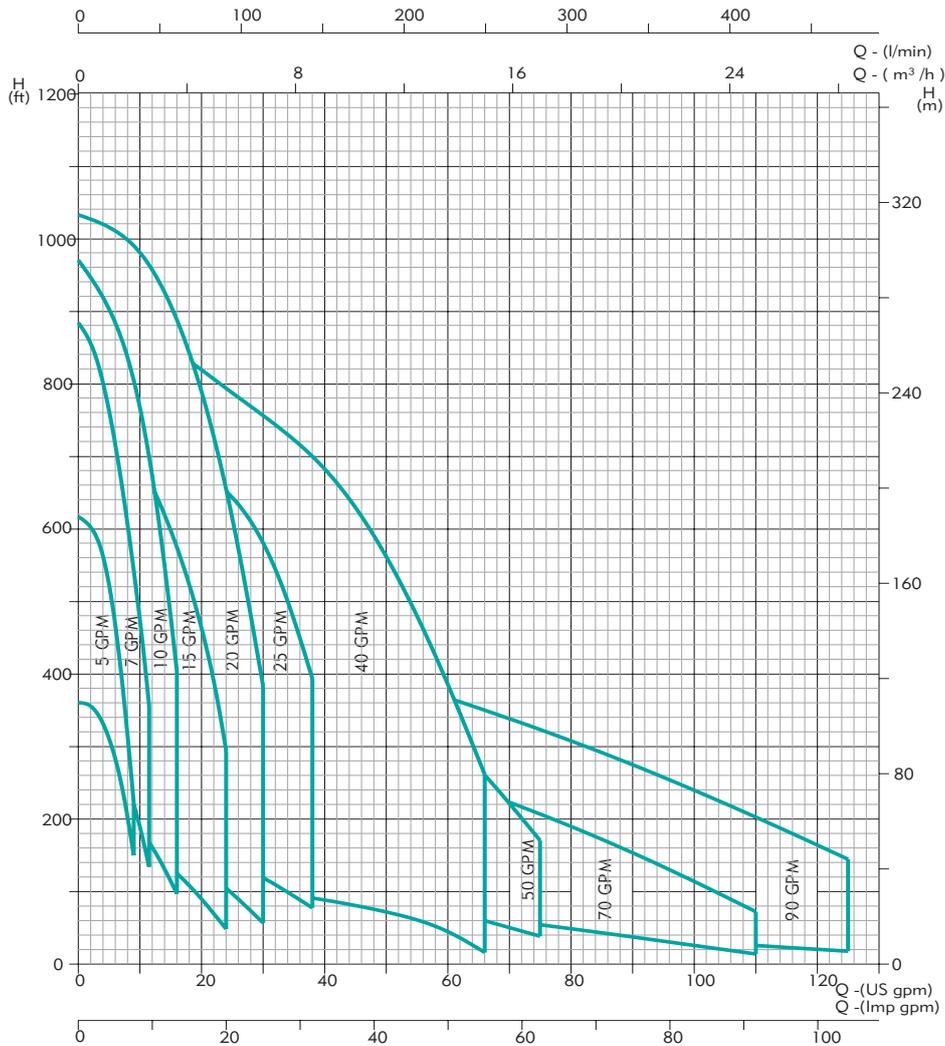
Model Designation BOREHOLE SUBMERSIBLE PUMPS



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)

GENERAL DATA

Quick Selection ➤ TP 100 Series



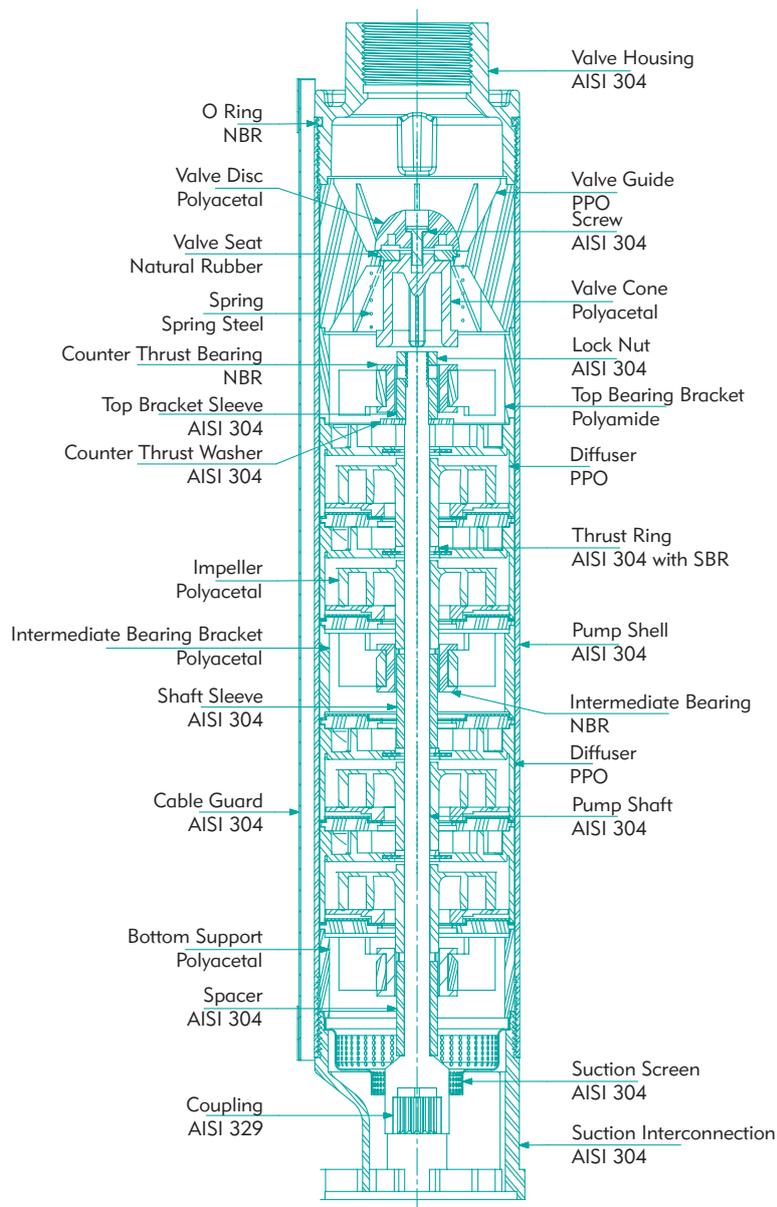
Performance Curve Conditions

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

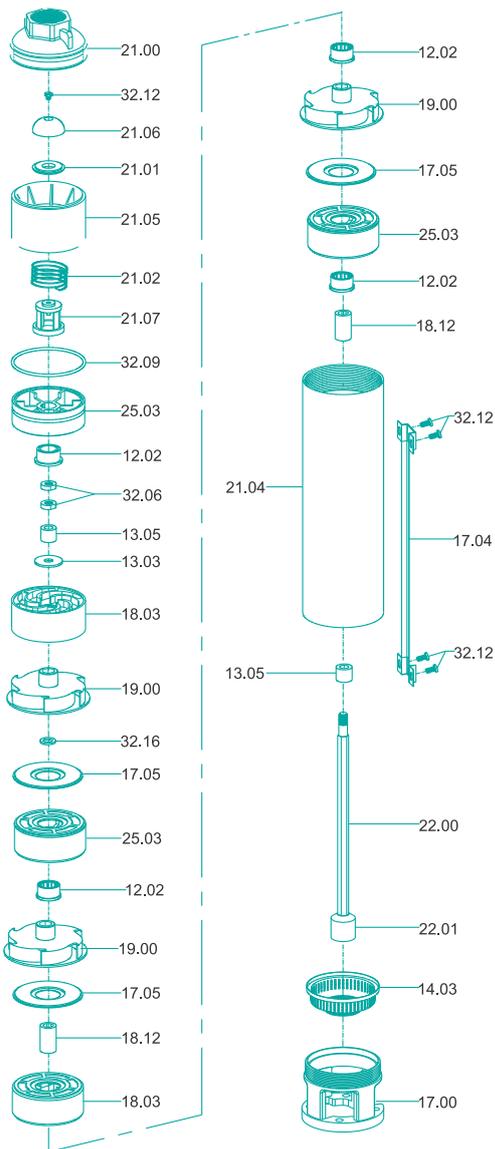
4" > TP Series > Version TP > Constructional Data of Radial Flow Pump



Pump Version - TS = AISI 304 Construction

Pump Version - TN = AISI 316 Construction

NEMA mounting dimensions.



Part No.	Description
12.02	Bush-LTB
13.03	Up Thrust Washer
13.05	Sleeve
14.03	Strainer
17.00	Suction Inter Connector
17.04	Cable Guard
17.05	Casing Top Plate
18.03	Diffuser

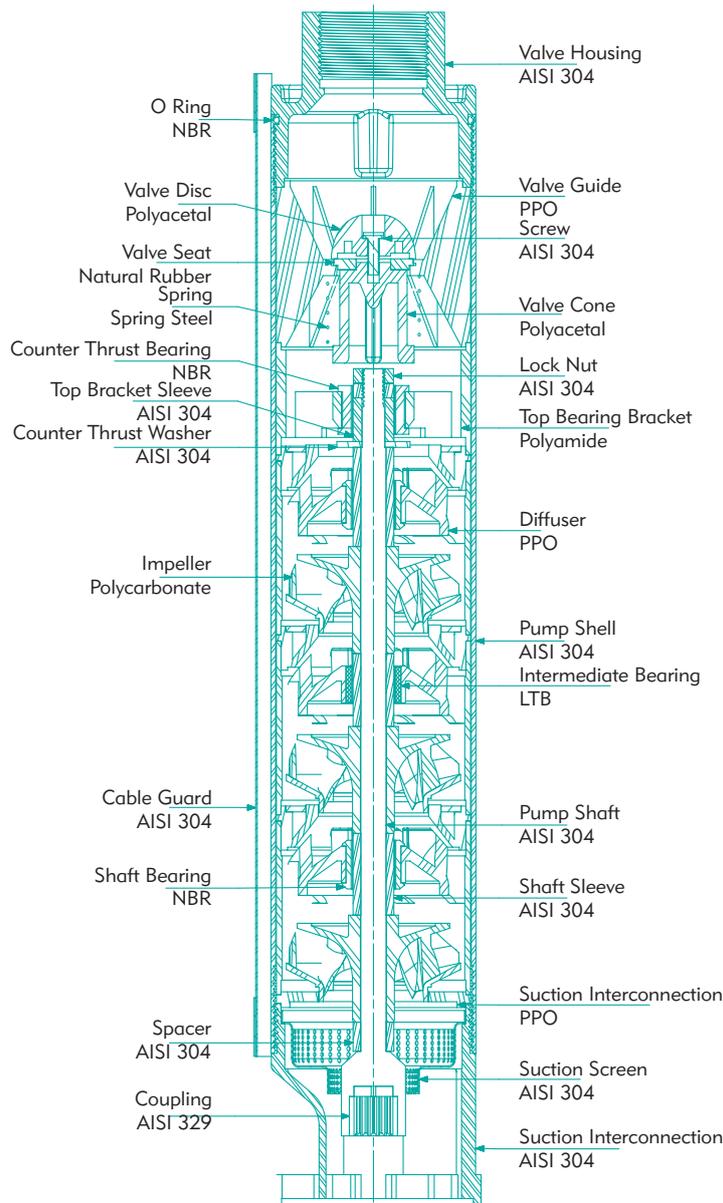
Part No.	Description
18.12	Spacer
19.00	Impeller
21.00	Valve Housing
21.01	Valve Seat
21.02	Valve Spring
21.04	Pump Shell
21.05	Valve Bracket
21.06	Valve Disc

Part No.	Description
21.07	Valve
22.00	Pump Shaft
22.01	Coupling
25.03	Bracket
32.06	Lock Nut
32.09	O-Ring
32.12	Screw
32.16	Washer

CONSTRUCTIONAL DATA

40 gpm

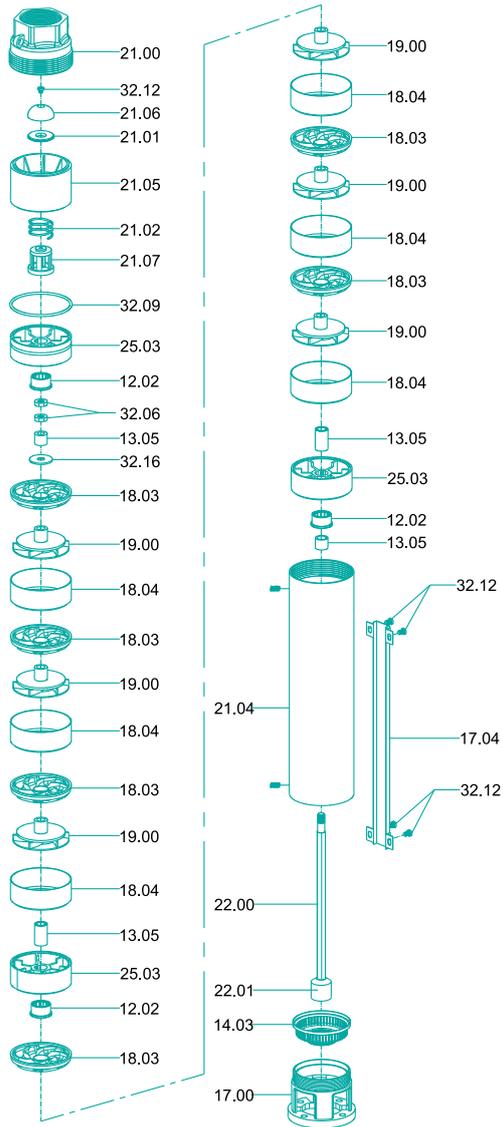
4" > TP Series > Version TP > Constructional Data of Radial Flow Pump



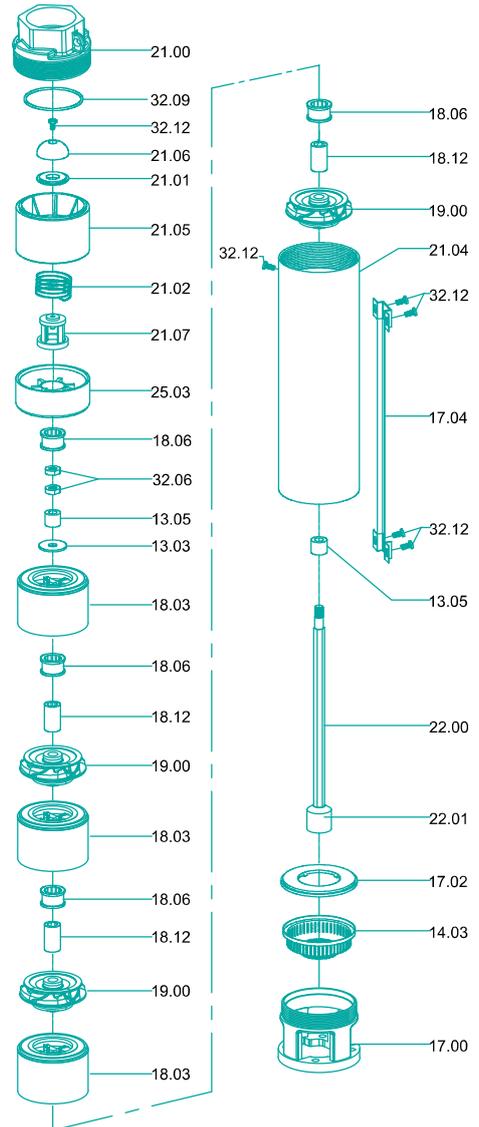
Pump Version - TS = AISI 304 Construction
 Pump Version - TN = AISI 316 Construction
 NEMA mounting dimensions.

EXPLODED VIEW

40 gpm



50 gpm



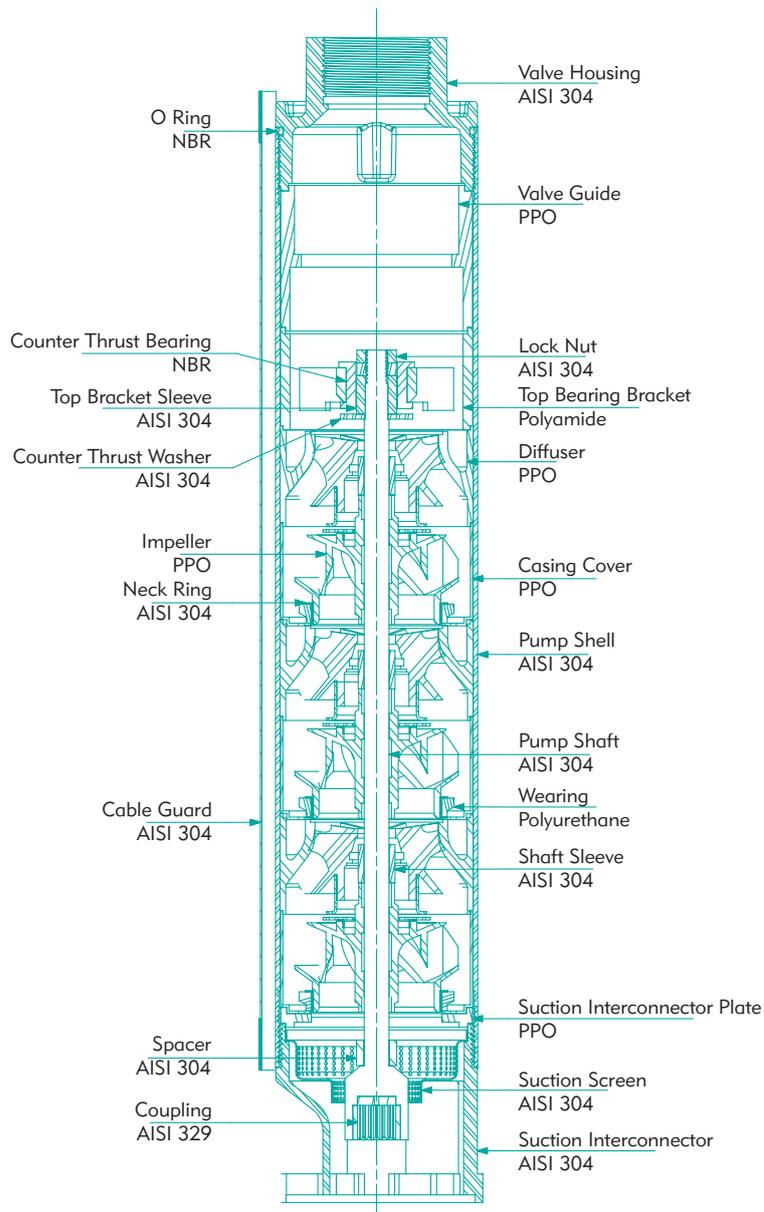
Part No.	Description	Part No.	Description	Part No.	Description
12.02	Bush-LTB	19.00	Impeller	21.07	Valve
13.05	Sleeve	21.00	Valve Housing	22.00	Pump Shaft
14.03	Strainer	21.01	Valve Seat	22.01	Coupling
17.00	Suction Inter Connector	21.02	Valve Spring	25.03	Bracket
17.04	Cable Guard	21.04	Pump Shell	32.06	Lock Nut
18.03	Diffuser	21.05	Valve Bracket	32.09	O-Ring
18.04	Chamber Cover	21.06	Valve Disc	32.12	Screw
				32.16	Washer

Part No.	Description	Part No.	Description	Part No.	Description
13.03	Up Thrust Washer	18.03	Diffuser	21.06	Valve Disc
13.05	Sleeve	18.06	Bush-Rubber	21.07	Suction valve
14.03	Strainer	18.12	Spacer	22.00	Pump Shaft
17.00	Suction Inter Connector	19.00	Impeller	22.01	Coupling
17.02	Suction inter Connector	21.00	Valve Housing	25.03	Bracket
17.04	Cable Guard	21.01	Valve Seat	32.06	Lock Nut
		21.02	Valve Spring	32.12	Screw
		21.04	Pump Shell	32.09	O Ring
		21.05	Valve Bracket		

CONSTRUCTIONAL DATA

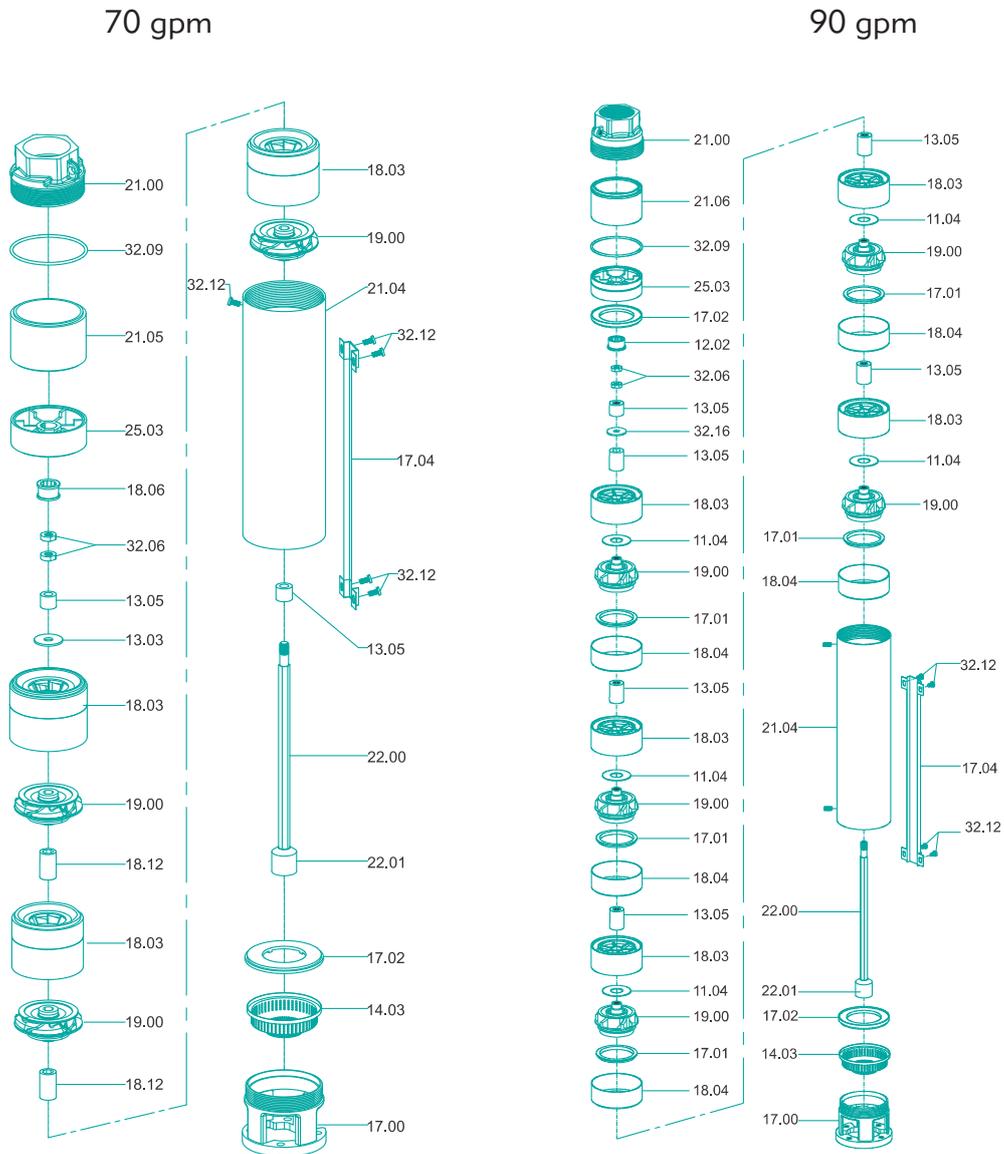
50 - 90 gpm

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.

EXPLODED VIEW



S4P-70 & 90 models are not provided with internal Check valve / Non return valve (NRV), so external Check valve / Non return valve (NRV), must be fitted to the pump outlet to avoid back spin and water hammer effect.

Part No.	Description
12.02	Bush-LTB
13.03	Up Thrust Washer
13.05	Sleeve
14.03	Strainer
17.00	Suction Inter Connector
17.04	Cable Guard
11.04	Thrust Pad
18.03	Diffuser
17.01	Wearing Ring

Part No.	Description
18.12	Spacer
19.00	Impeller
21.00	Valve Housing
21.01	Valve Seat
21.02	Valve Spring
21.04	Pump Shell
21.05	Valve Bracket
21.06	Valve Disc
18.04	Chamber Cover

Part No.	Description
21.07	Valve
22.00	Pump Shaft
22.01	Coupling
25.03	Bracket
32.06	Lock Nut
32.09	O-Ring
32.12	Screw
32.16	Washer
17.02	Suction Inter Connector Plate

All mounting dimensions are in accordance with NEMA Standards.

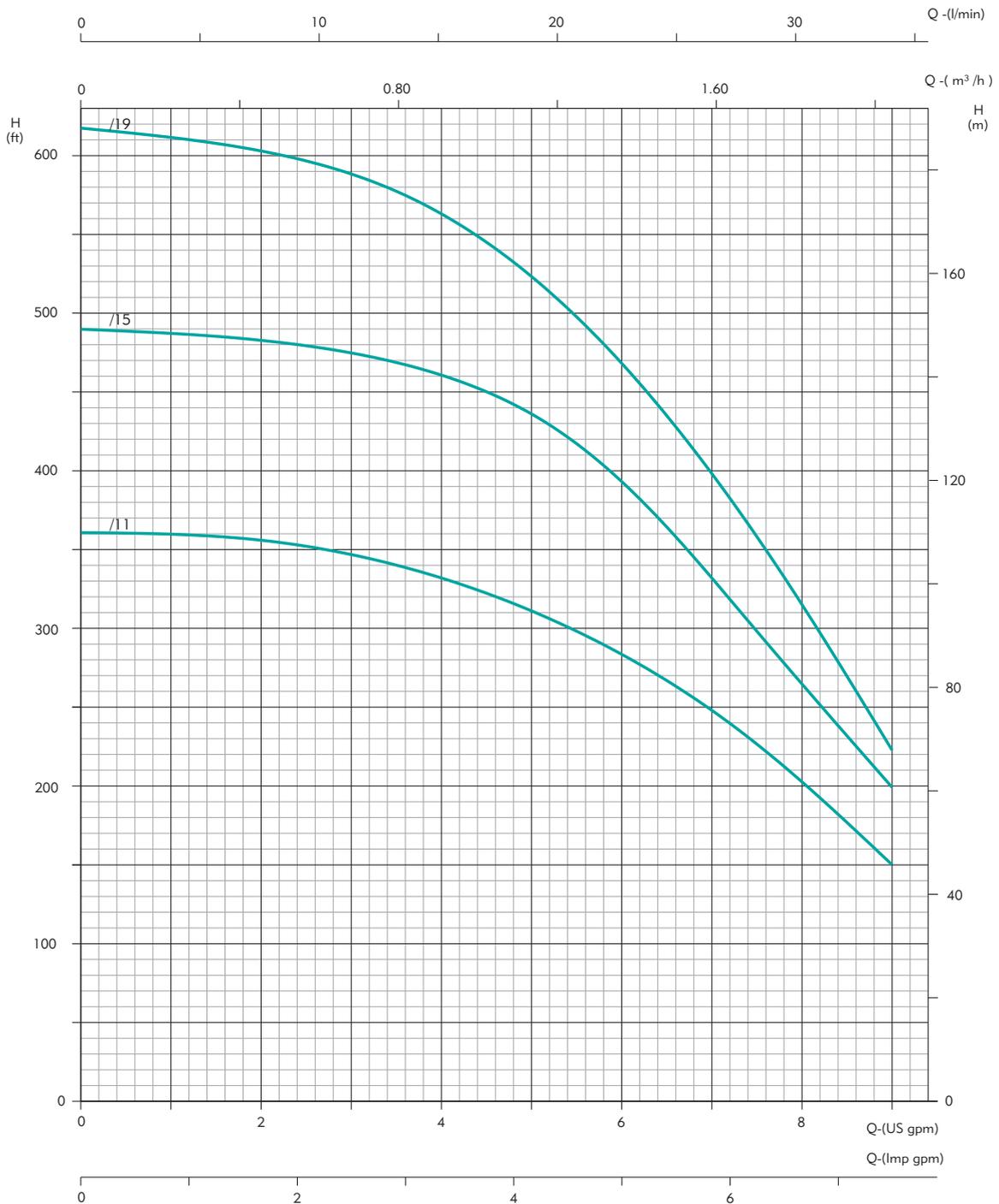
PERFORMANCE CURVES

TP SERIES > 4" > 5 GPM

Model : **TP 100 - 5**

Outlet Size : **1¼" NPT**

3450 rpm



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

PERFORMANCE DATA

TP SERIES > 4" > 5 GPM

Model : **TP 100 - 5**

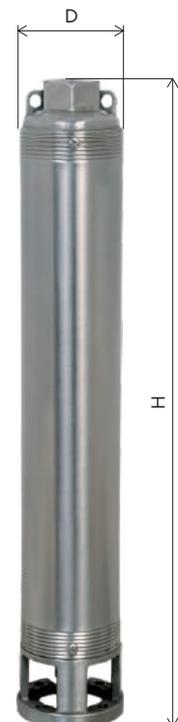
Outlet Size : **1 1/4" NPT**

3450 rpm

Pump Model	Power		m ³ /h	0	0.45	0.91	1.36	1.80
	HP	kW	USGPM	0	2	4	6	8
TP100-5/11	0.5	0.37	TOTAL DYNAMIC HEAD IN METER	110	108	101	86	46
TP100-5/15	0.75	0.55		149	144	140	120	61
TP100-5/19	1	0.75		188	184	172	142	68

Nett Weights & Dimensions

Pump Model	Dimensions in Inches		Nett Weight (lbs)
	D	H	
TP100-5/11	3.9	17	10
TP100-5/15	3.9	22	11
TP100-5/19	3.9	25	14



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.

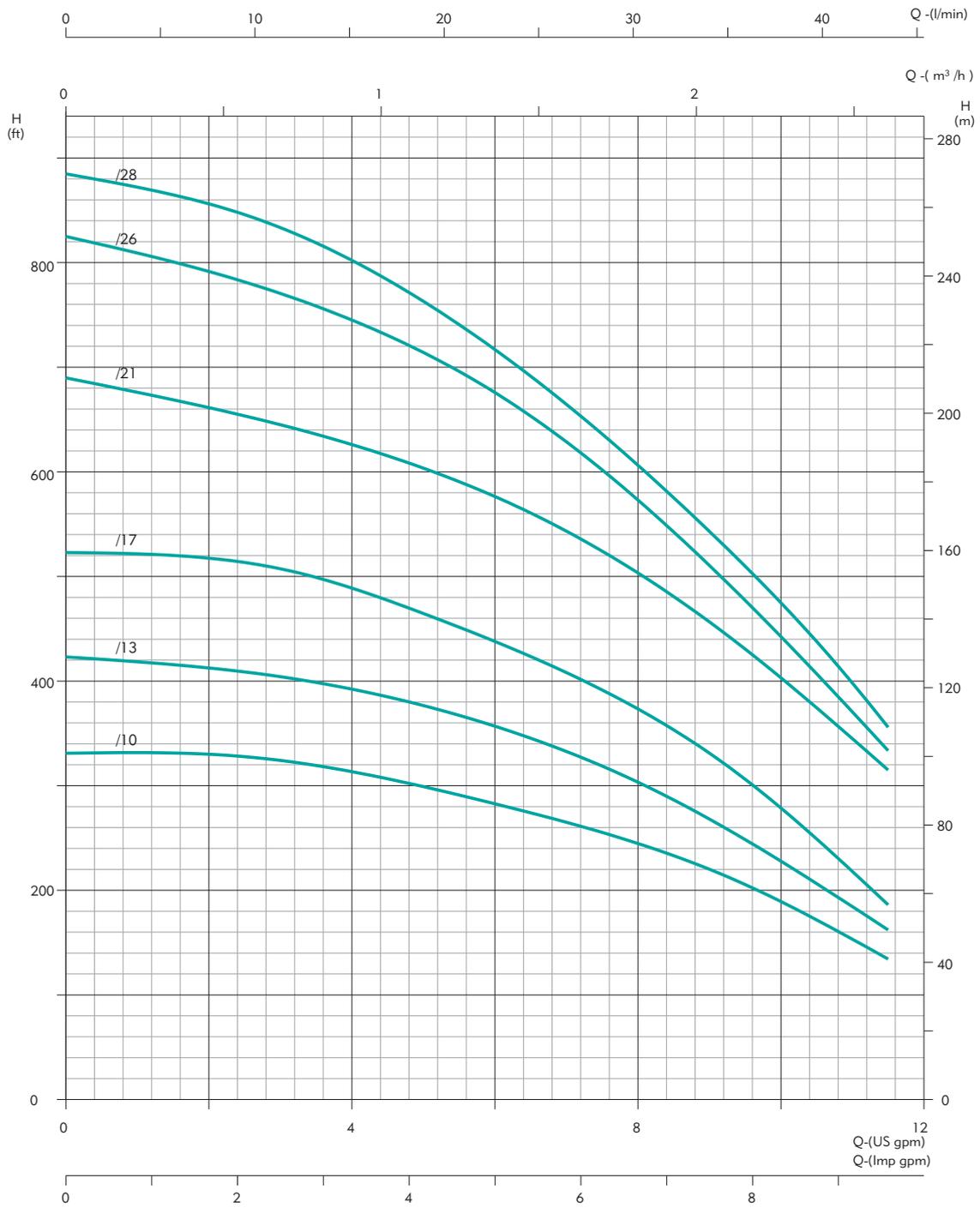
PERFORMANCE CURVES

TP SERIES > 4" > 7 GPM

Model : **TP 100 - 7**

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

3450 rpm



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

PERFORMANCE DATA

TP SERIES > 4" > 7 GPM

Model : **TP 100 - 7**

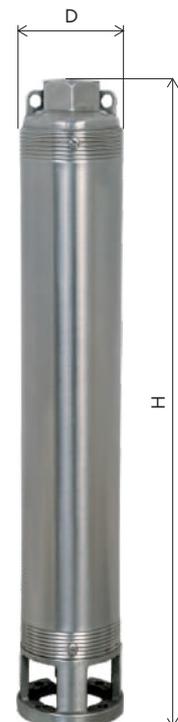
Outlet Size : **1" NPT**

3450 rpm

Pump Model	Power		m ³ /h	0	0.45	1.36	2.27	2.61
	HP	kW	USGPM	0	2	6	10	11.5
TP100-7/10	0.5	0.37	TOTAL DYNAMIC HEAD IN METER	101	101	86	58	41
TP100-7/13	0.75	0.55		129	126	109	70	49
TP100-7/17	1	0.75		159	158	134	85	57
TP100-7/21	1	0.75		210	202	176	123	96
TP100-7/26	2	1.5		251	241	206	135	102
TP100-7/28	2	1.5		270	261	219	145	109

Nett Weights & Dimensions

Pump Model	Dimensions in Inches		Nett Weight (lbs)
	D	H	
TP100-7/10	3.9	18	10
TP100-7/13	3.9	21	12
TP100-7/17	3.9	26	13
TP100-7/21	3.9	29	16
TP100-7/26	3.9	35	19
TP100-7/28	3.9	36	20



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.

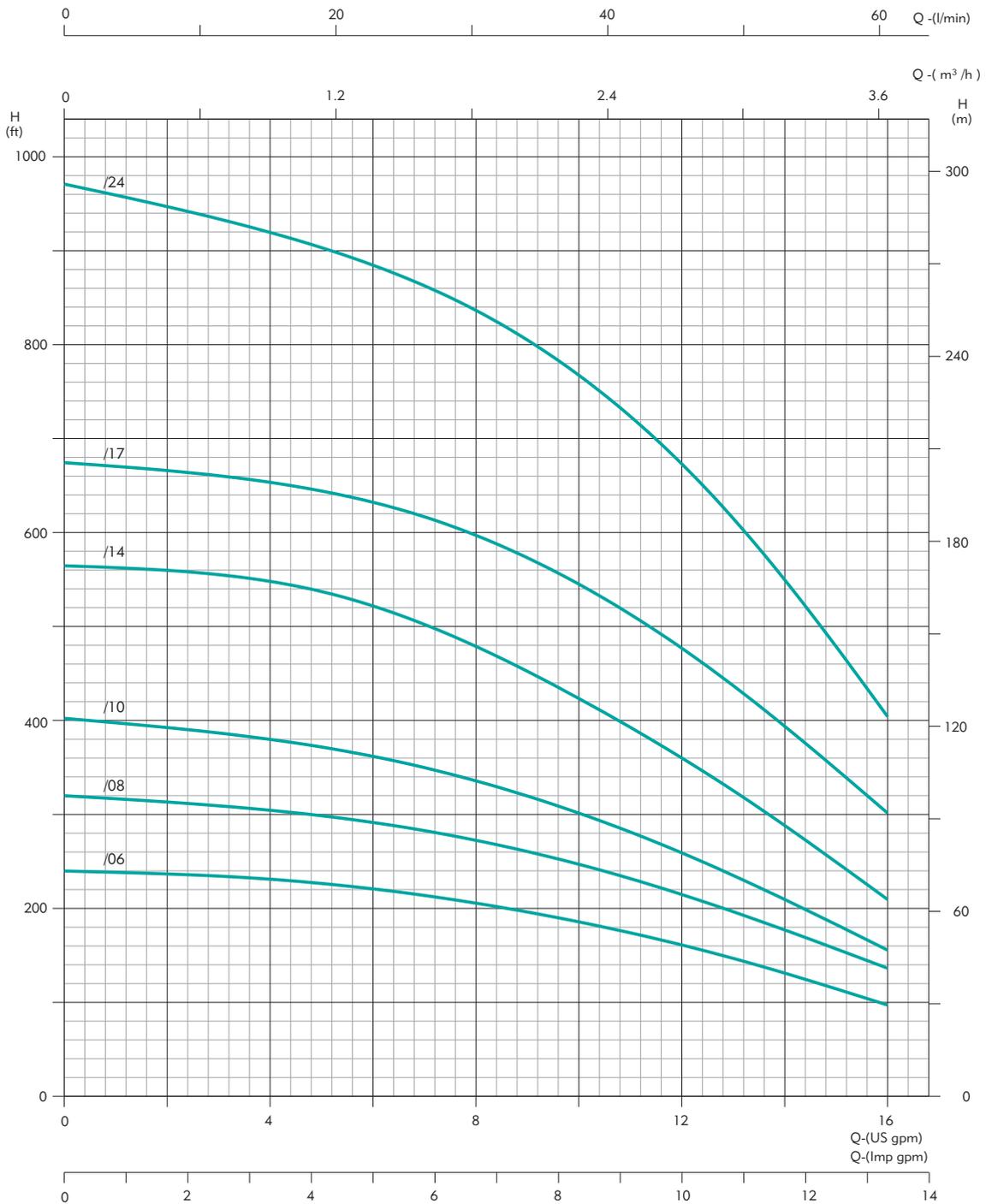
PERFORMANCE CURVES

TP SERIES > 4" > 10 GPM

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" > 10 GPM

Model : **TP 100 - 10**

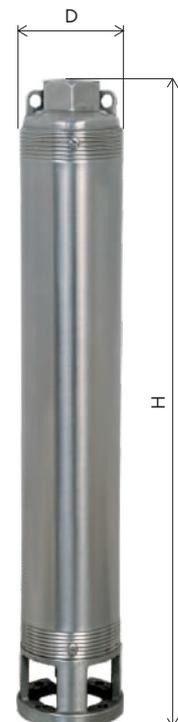
Outlet Size : **1¼" NPT**

3450 rpm

Pump Model	Power		m ³ /h	0	0.91	1.82	2.73	3.63
	HP	kW	USGPM	0	4	8	12	16
TP100-10/06	0.5	0.37	TOTAL DYNAMIC HEAD IN METER	73	70	63	49	30
TP100-10/08	0.75	0.55		98	93	83	66	42
TP100-10/10	1	0.75		123	116	102	79	48
TP100-10/14	1.5	1.1		172	167	146	110	64
TP100-10/17	2	1.5		205	199	182	146	92
TP100-10/24	3	2.2		296	280	255	206	123

Nett Weights & Dimensions

Pump Model	Dimensions in Inches		Nett Weight (lbs)
	D	H	
TP100-10/06	3.9	15	8
TP100-10/08	3.9	17	9
TP100-10/10	3.9	19	10
TP100-10/14	3.9	23	13
TP100-10/17	3.9	27	16
TP100-10/24	3.9	33	18



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.

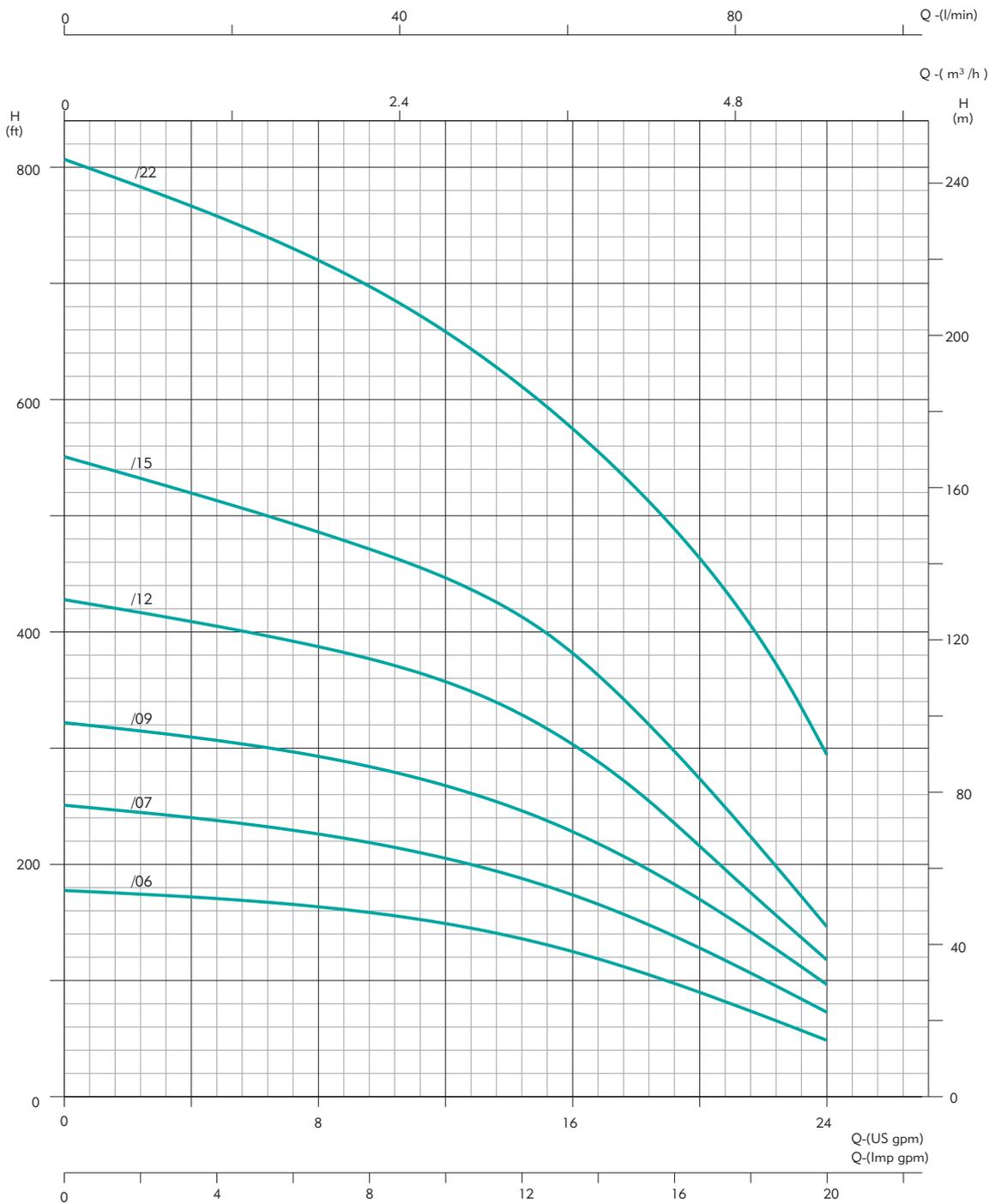
PERFORMANCE CURVES

TP SERIES > 4" > 15 GPM

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" > 15 GPM

Model : **TP 100 - 15**

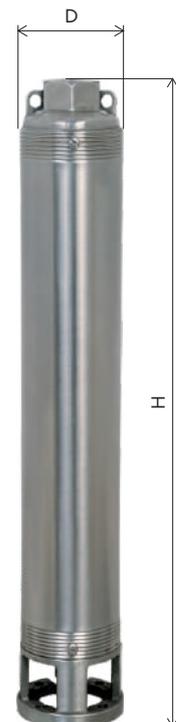
Outlet Size : **1¼" NPT**

3450 rpm

Pump Model	Power		m ³ /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 METER	54	52	45	27	15
TP100-15/07	0.75	0.55		76	73	63	39	22
TP100-15/09	1	0.75		98	94	82	52	29
TP100-15/12	1.5	1.1		130	125	109	66	36
TP100-15/15	2	1.5		168	158	137	84	45
TP100-15/22	3	2.2		246	234	201	141	90

Nett Weights & Dimensions

Pump Model	Dimensions in Inches		Nett Weight (lbs)
	D	H	
TP100-15/05	3.9	15	8
TP100-15/07	3.9	17	10
TP100-15/09	3.9	19	10
TP100-15/12	3.9	22	12
TP100-15/15	3.9	26	14
TP100-15/22	3.9	34	19



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.

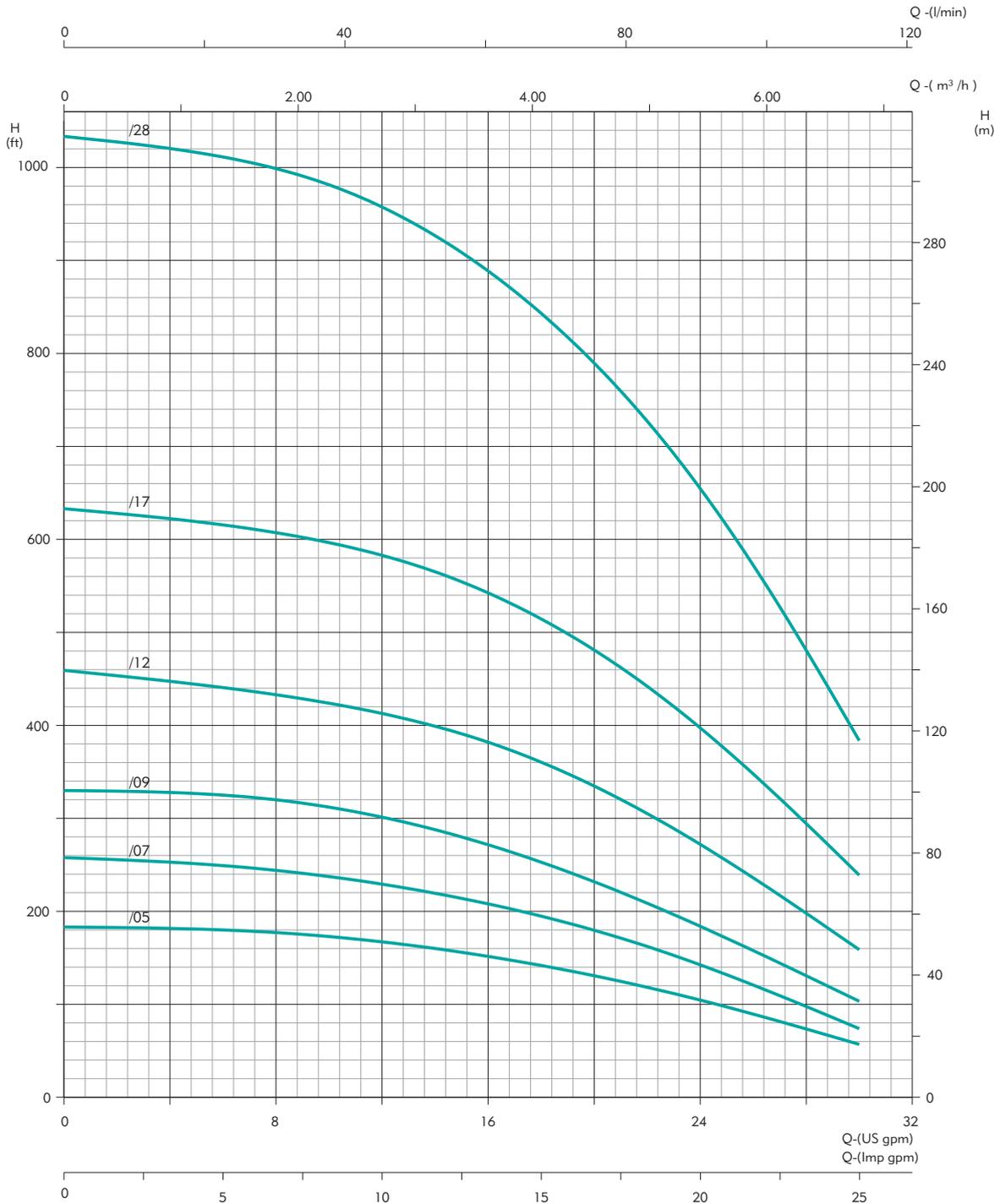
PERFORMANCE CURVES

TP SERIES > 4" > 20 GPM

Model : **TP 100 - 20**

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

3450 rpm



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

PERFORMANCE DATA

TP SERIES > 4" > 20 GPM

Model : **TP 100 - 20**

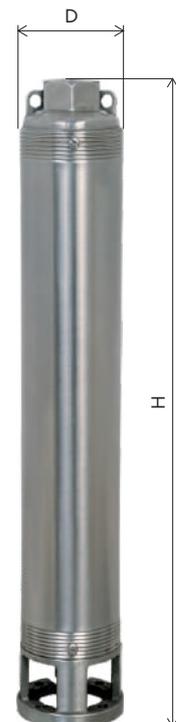
Outlet Size : **1¼" NPT**

3450 rpm

Pump Model	Power		m ³ /h	0	1.82	3.63	5.45	6.81
	HP	kW	USGPM	0	8	16	24	30
TP100-20/05	0.5	0.375	TOTAL DYNAMIC HEAD IN METER	55	54	46	32	18
TP100-20/07	0.75	0.5625		79	74	63	44	23
TP100-20/09	1	0.75		101	98	83	56	31
TP100-20/12	1.75	1.3125		140	132	116	83	48
TP100-20/17	2	1.5		192	185	165	121	73
TP100-20/28	3	2.25		315	304	271	200	116

Nett Weights & Dimensions

Pump Model	Dimensions in Inches		Nett Weight (lbs)
	D	H	
TP100-20/05	3.9	15	8
TP100-20/07	3.9	17	10
TP100-20/09	3.9	20	10
TP100-20/12	3.9	23	12
TP100-20/17	3.9	30	14
TP100-20/28	3.9	44	21



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.

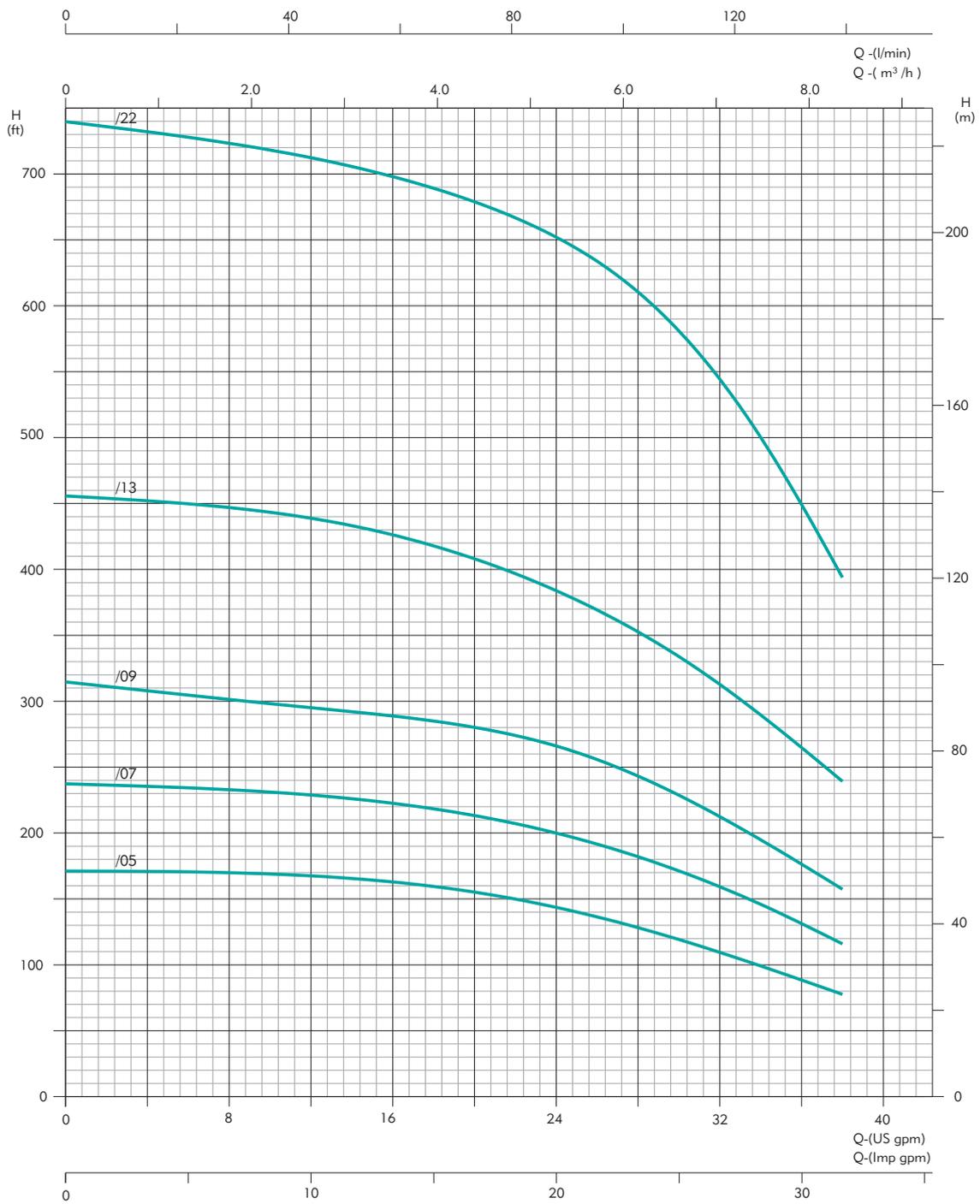
PERFORMANCE CURVES

TP SERIES > 4" > 25 GPM

Model : **TP 100 - 25**

Outlet Size : **1½" NPT**

3450 rpm



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

PERFORMANCE DATA

TP SERIES > 4" > 25 GPM

Model : **TP 100 - 25**

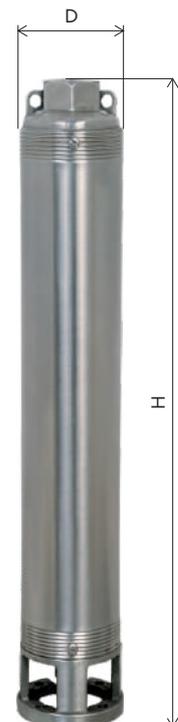
Outlet Size : **1½" NPT**

3450 rpm

Pump Model	Power		m ³ /h	0	1.82	3.63	5.45	7.27	8.18
	HP	kW	USGPM	0	8	16	24	32	36
TP100-25/05	1	0.75	TOTAL DYNAMIC HEAD IN METER	52	52	50	44	33	24
TP100-25/07	1.5	1.1		73	71	68	61	48	36
TP100-25/09	2	1.5		96	92	88	81	65	48
TP100-25/13	3	2.2		139	136	130	117	95	73
TP100-25/22	5	3.7		226	220	213	199	166	120

Nett Weights & Dimensions

Pump Model	Dimensions in Inches		Nett Weight (lbs)
	D	H	
TP100-25/05	3.9	17	8
TP100-25/07	3.9	20	10
TP100-25/09	3.9	22	11
TP100-25/13	3.9	28	15
TP100-25/22	3.9	43	23



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.

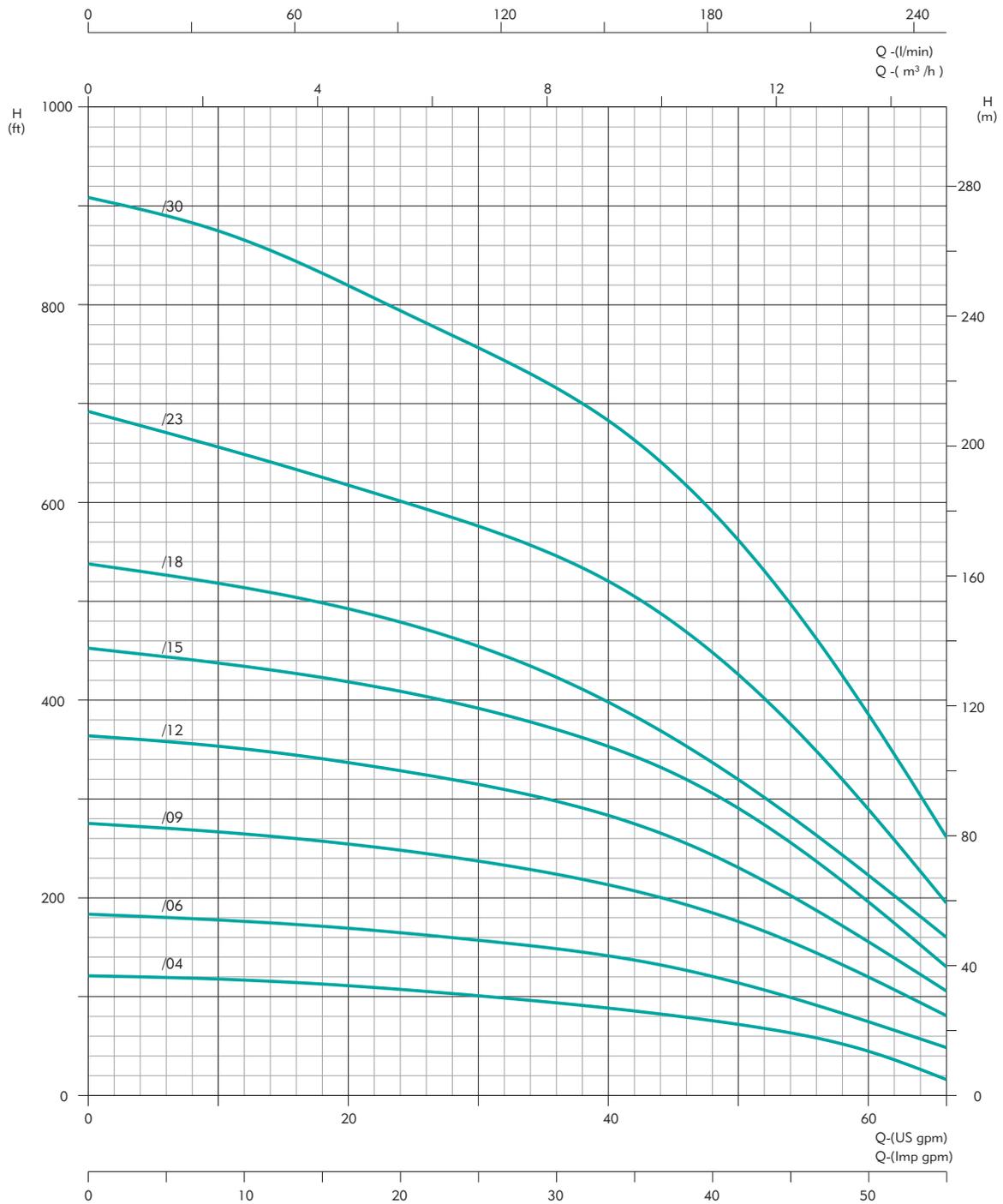
PERFORMANCE CURVES

TP SERIES > 4" > 40 GPM

Model : **TP 100 - 40**

Outlet Size : **2" NPT**

3450 rpm



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

PERFORMANCE DATA

TP SERIES > 4" > 40 GPM

Model : **TP 100 - 40**

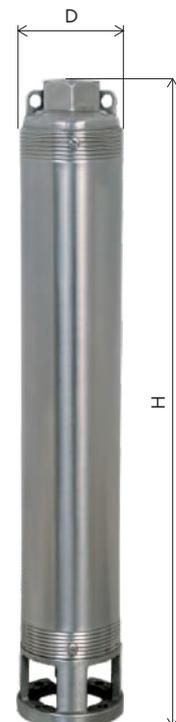
Outlet Size : **2" NPT**

3450 rpm

Pump Model	Power		m ³ /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 METER	37	34	27	20	5
TP100-40/06	2	1.5		55	51	43	30	15
TP100-40/09	3	2.2		84	78	65	48	25
TP100-40/12	4	3		111	103	87	62	32
TP100-40/15	5	3.7		138	127	108	78	40
TP100-40/18	6	4.5		164	150	121	87	49
TP100-40/23	7.5	5.5		210	188	158	114	60
TP100-40/30	10	7.5		277	250	208	151	80

Nett Weights & Dimensions

Pump Model	Dimensions in Inches		Nett Weight (lbs)
	D	H	
TP100-40/04	3.9	15	8
TP100-40/06	3.9	17	10
TP100-40/09	3.9	21	12
TP100-40/12	3.9	24	14
TP100-40/15	3.9	29	16
TP100-40/18	3.9	33	18
TP100-40/23	3.9	39	22
TP100-40/30	3.9	49	28



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.

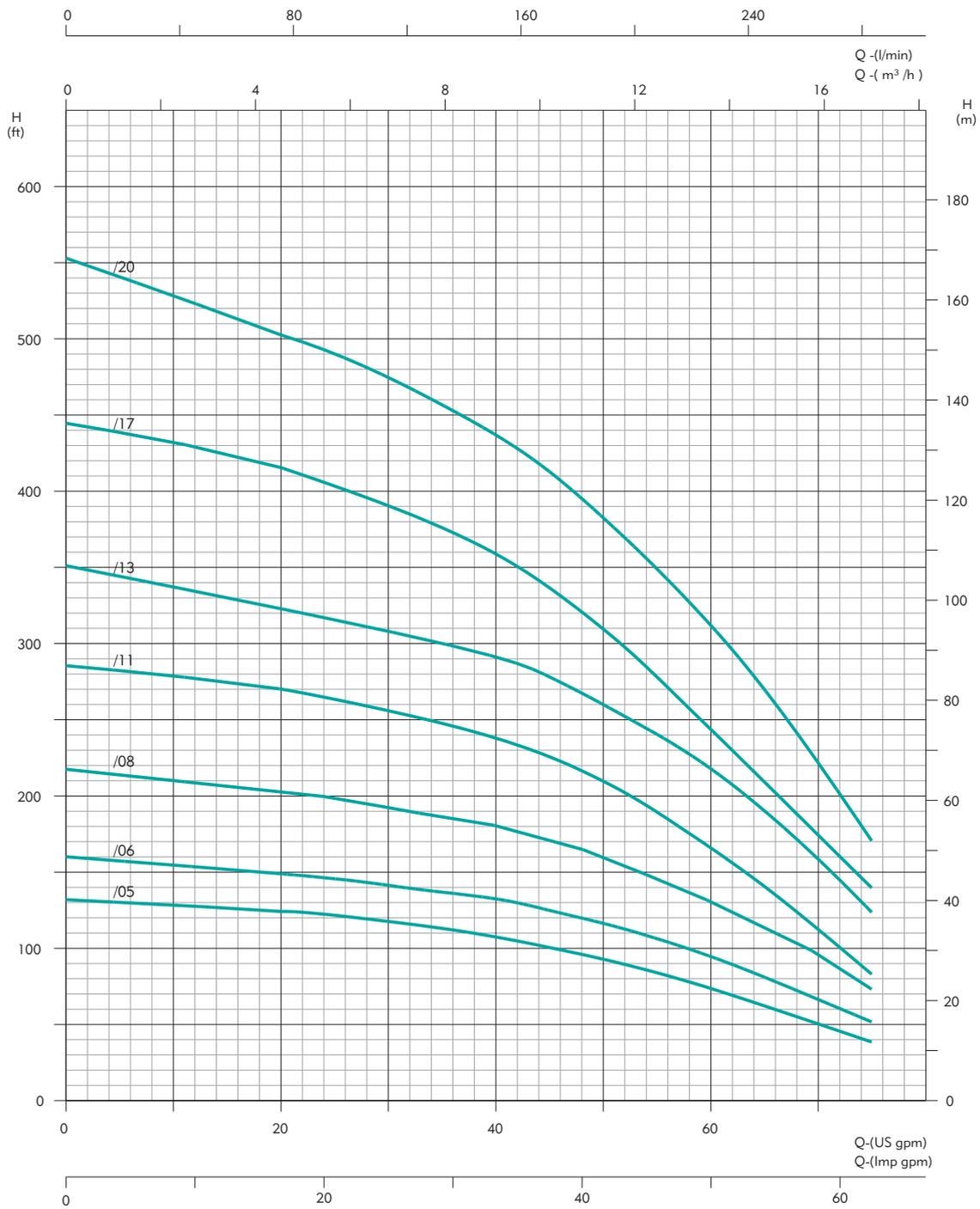
PERFORMANCE CURVES

TP SERIES > 4" > 50 GPM

Model : **TP 100 - 50**

Outlet Size : **2" NPT**

3450 rpm



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

PERFORMANCE DATA

TP SERIES > 4" > 50 GPM

Model : **TP 100 - 50**

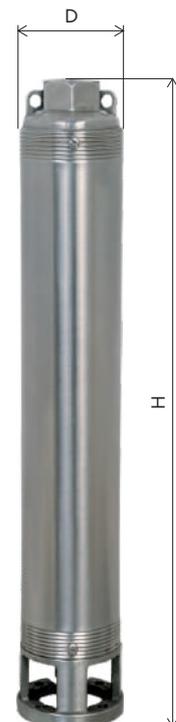
Outlet Size : **2" NPT**

3450 rpm

Pump Model	Power		m ³ /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 METER	40	38	33	23	12
TP100-50/06	2	1.5		49	45	41	29	16
TP100-50/08	3	2.2		66	62	55	40	23
TP100-50/11	5	3.7		87	82	73	51	25
TP100-50/13	5	3.7		107	99	89	66	38
TP100-50/17	7.5	5.5		136	127	109	74	43
TP100-50/20	7.5	5.5		169	154	133	96	52

Nett Weights & Dimensions

Pump Model	Dimensions in Inches		Nett Weight (lbs)
	D	H	
TP100-50/05	3.9	20	9
TP100-50/06	3.9	22	11
TP100-50/08	3.9	27	13
TP100-50/11	3.9	33	17
TP100-50/13	3.9	38	19
TP100-50/17	3.9	47	23
TP100-50/20	3.9	54	25



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.

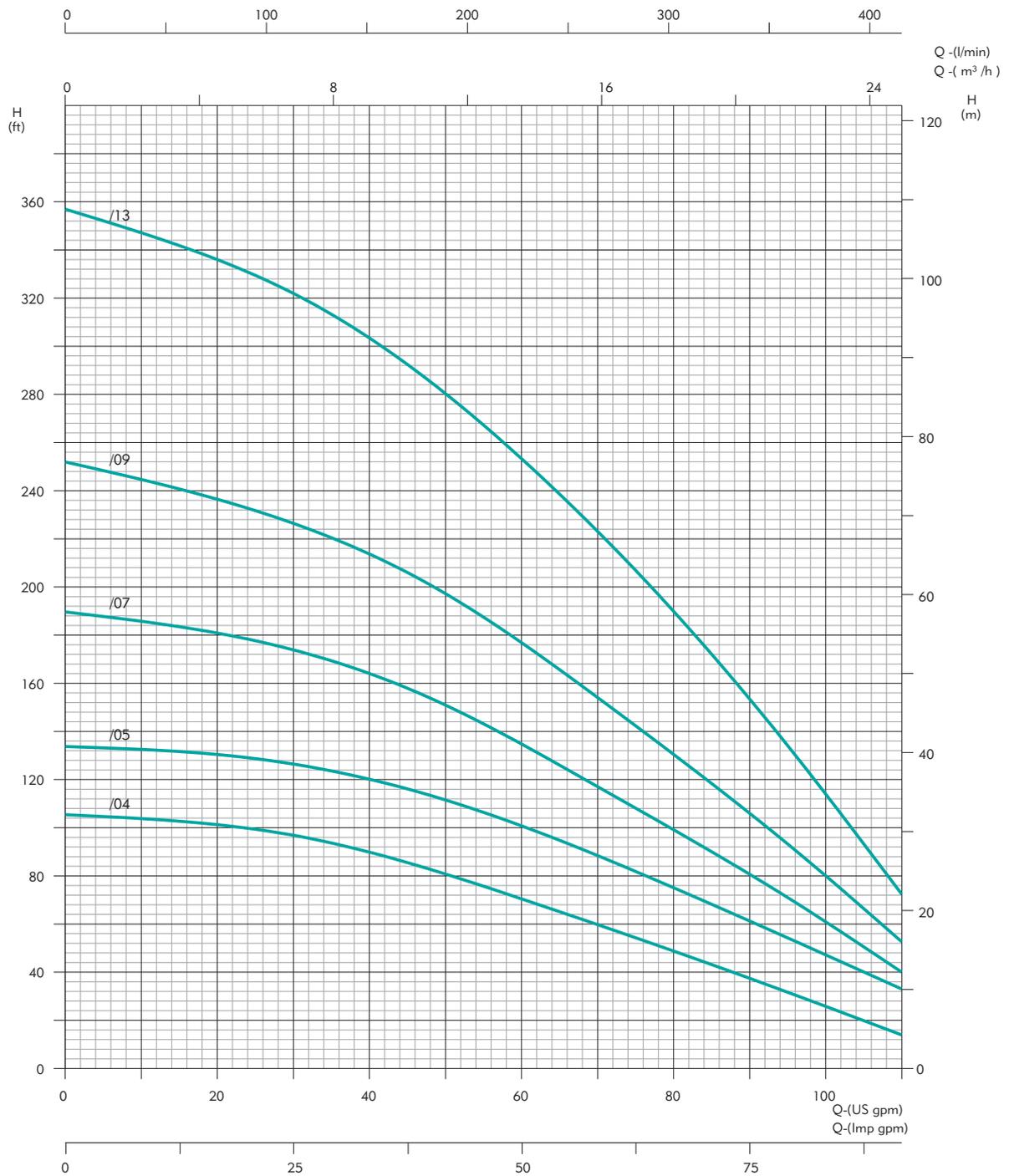
PERFORMANCE CURVES

TP SERIES > 4" > 70 GPM

Model : **TP 100 - 70**

Outlet Size : **2" NPT**

3450 rpm



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

PERFORMANCE DATA

TP SERIES > 4" > 70 GPM

Model : **TP 100 - 70**

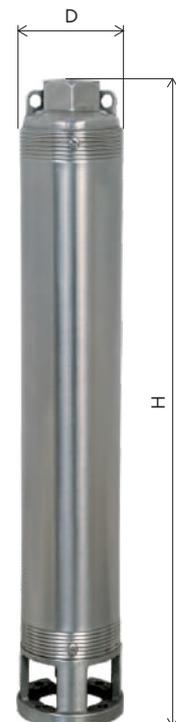
Outlet Size : **2" NPT**

3450 rpm

Pump Model	Power		m ³ /h	0	6.81	13.63	20.44	24.98
	HP	kW	USGPM	0	30	60	90	110
TP100-70/04	2	1.5	TOTAL DYNAMIC HEAD IN METER	32	30	21	12	4
TP100-70/05	3	2.2		41	38	31	19	10
TP100-70/07	4	3		58	53	42	25	12
TP100-70/09	5	3.7		77	69	54	32	16
TP100-70/13	7.5	5.5		109	98	77	47	22

Nett Weights & Dimensions

Pump Model	Dimensions in Inches		Nett Weight (lbs)
	D	H	
TP100-70/04	3.9	21	9
TP100-70/05	3.9	24	12
TP100-70/07	3.9	31	17
TP100-70/09	3.9	37	22
TP100-70/13	3.9	49	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.

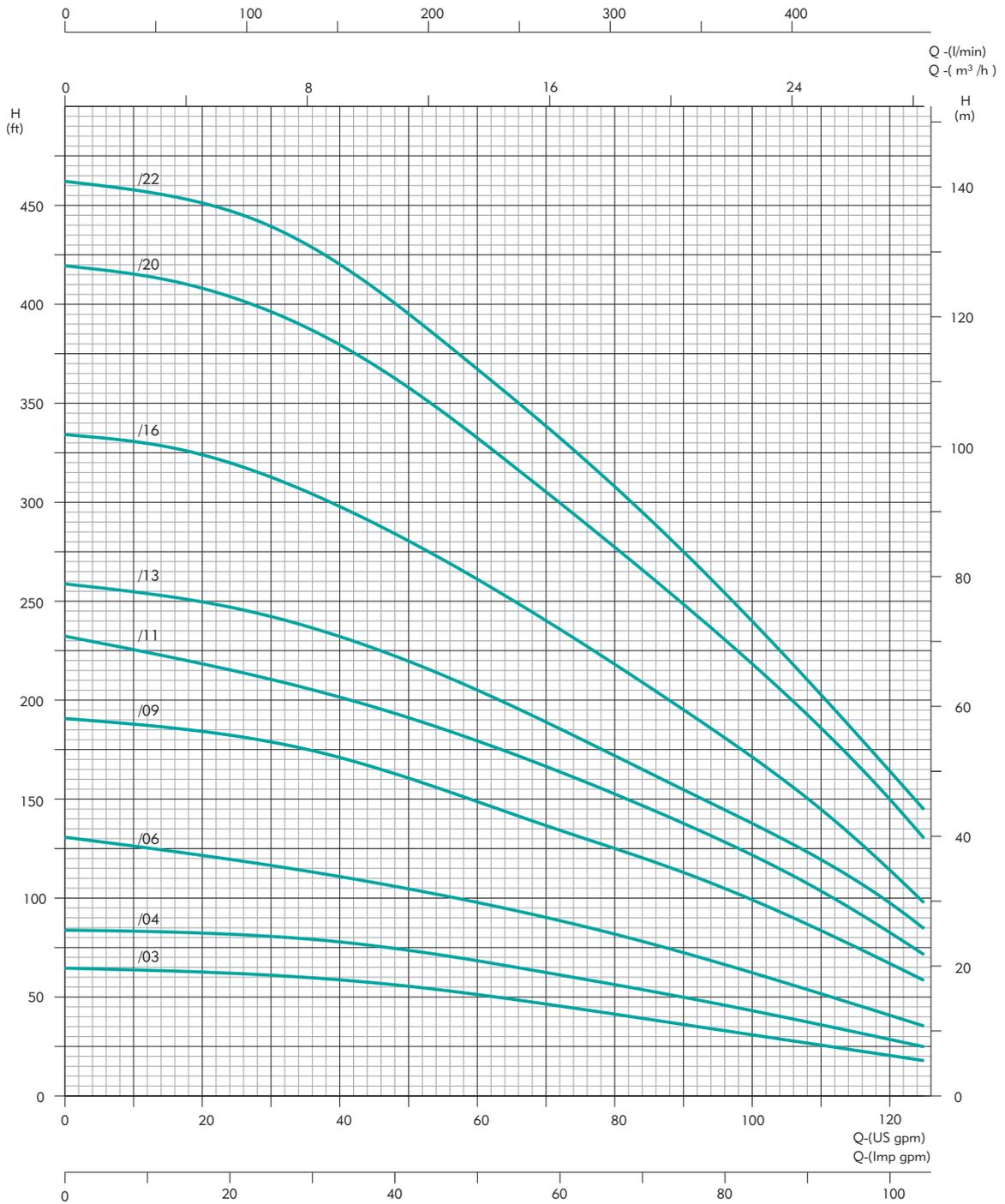
PERFORMANCE CURVES

TP SERIES > 4" > 90 GPM

Model : **TP 100 - 90**

Outlet Size : **2" NPT**

3450 rpm



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

PERFORMANCE DATA

TP SERIES > 4" > 90 GPM

Model : **TP 100 - 90**

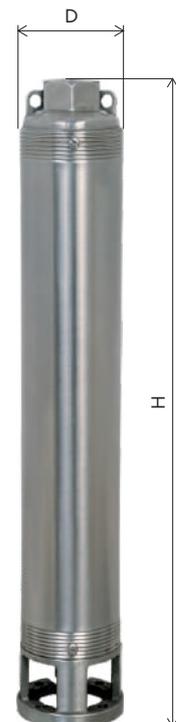
Outlet Size : **2" NPT**

3450 rpm

Pump Model	Power		m ³ /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 METER	20	19	16	11	8	5
TP100-90/04	2	1.5		26	25	21	15	11	8
TP100-90/06	3	2.2		40	36	30	22	16	11
TP100-90/09	4	3		58	54	45	34	26	18
TP100-90/11	5	3.7		71	64	55	42	32	22
TP100-90/13	6	4.5		79	74	62	47	36	26
TP100-90/16	7.5	5.5		102	95	80	59	44	30
TP100-90/20	10	7.5		128	121	101	76	57	40
TP100-90/22	10	7.5		141	134	112	84	62	44

Nett Weights & Dimensions

Pump Model	Dimensions in Inches		Nett Weight (lbs)
	D	H	
TP100-90/03	3.98	17	10
TP100-90/04	3.98	20	11
TP100-90/06	3.98	26	13
TP100-90/09	3.98	34	17
TP100-90/11	3.98	39	20
TP100-90/13	3.98	45	22
TP100-90/16	3.98	53	26
TP100-90/20	3.98	64	30
TP100-90/22	3.98	70	34



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 ³ /h	cubic foot per hour ft ³ /h	cubic foot per minute ft ³ /min	Imp.gallon per minute Imp.gal./min	US gallon per minute Us gal./min	Us barrel per day ls 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 ³	litre l	Milli litre ml	Imp. gallon Imp. Gal	US gallon US gal	cubic foot ft ³
1	1000	1 x 10 ⁶	220	264.2	35.3147
0.001	1	1000	0.22	0.2642	0.0353
1 x 10 ⁻⁵	0.001	1	2.2 x 10 ⁻⁴	2.642 x 10 ⁻⁴	3.53 x 10 ⁻⁵
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 ² (Pa)	kilo pascal kPa	bar	kilogram force per square centimeter Kgf/cm ²	pound force per square inch psi	foot for water ft H ₂ O	meter of water m H ₂ O	millimeter of mercury mm Hg	inch of mercury in Hg
1	0.001	1 x 10 ⁻⁵	1.02 x 10 ⁻⁵	1.45 x 10 ⁻⁴	3.35 x 10 ⁻⁴	1.02 x 10 ⁻⁴	0.0075	2.95 x 10 ⁻⁴
1000	1	0.01	0.0102	0.145	0.335	0.102	7.5	0.295
1 x 10 ⁻⁵	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 ⁻⁴	0.0011
0.454	1	0.0089	4.54 x 10 ⁻⁴	4.46 x 10 ⁻⁴	5.0 x 10 ⁻⁴
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.

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Tormac
P U M P S