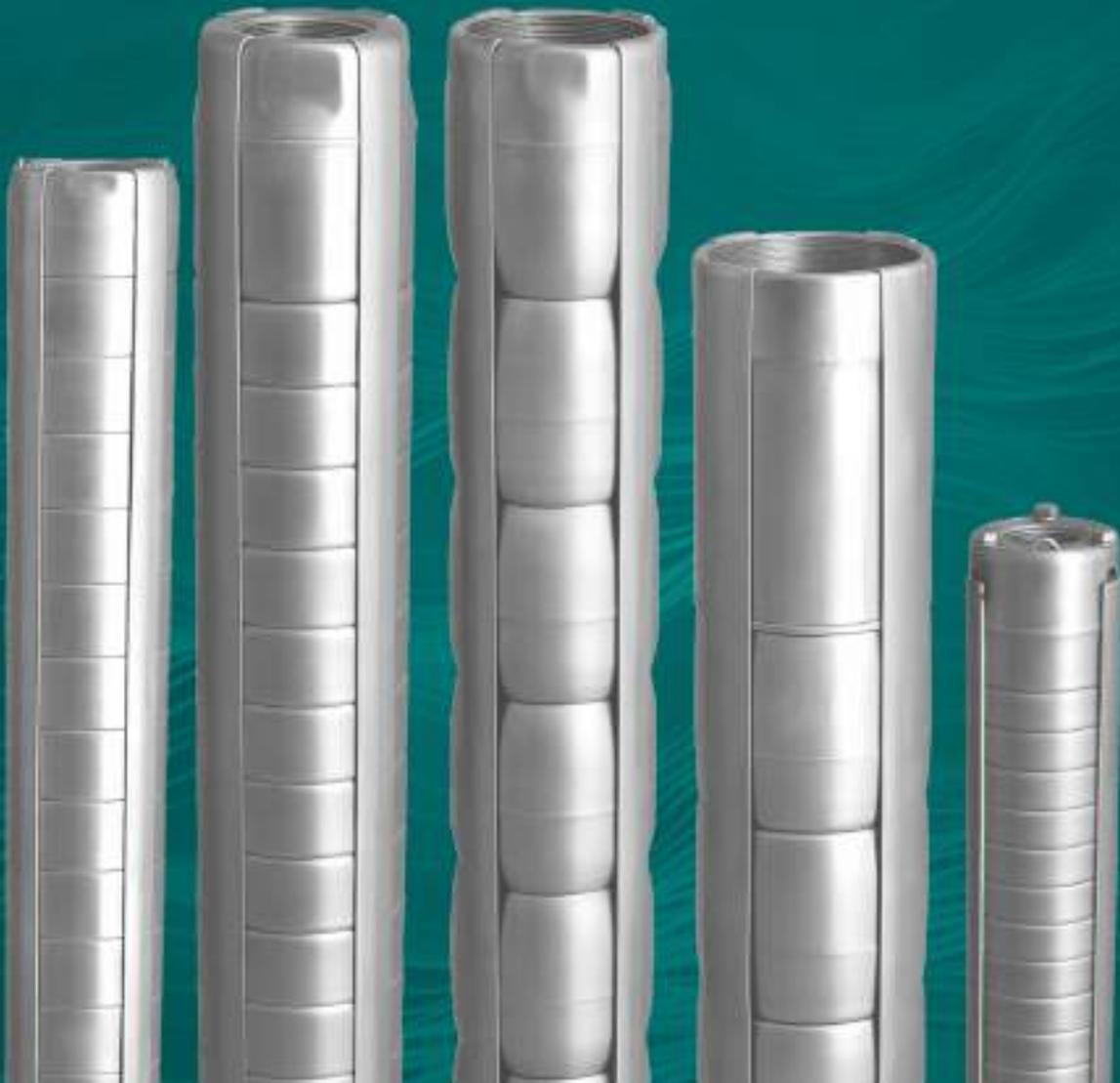




THE HIDDEN POWER BEHIND EVERY CROP



Products from an ISO 9001 COMPANY



SUBMERSIBLE PUMPS - **60 Hz**

INDEX

TS/TN/TL SERIES - STAINLESS STEEL SUBMERSIBLE PUMPS	PAGE NO.
General Data	
Construction, Applications, Features.....	2
Pumped Liquids.....	3
Pump Operating Limitations.....	3
Model Designation.....	3
Quick Selection TS - 100 Series.....	4
Quick Selection TS/TN/TL - 150 Series.....	5
Quick Selection TS/TN/TL - 200 & 250 Series.....	6
4" TS SERIES	
Constructional Data & Exploded View of Radial & Semi - Axial Flow Pump.....	7-9
Performance Curves, Nett Weight & Dimensions	
TS100-5	10-11
TS100-7	12-13
TS100-10.....	14-15
TS100-16	16-17
TS100-25	18-19
TS100-40	20-21
TS100-75	22-23
6" TS/TN/TL SERIES	
Constructional Data & Exploded View of Radial & Semi - Axial Flow Pump.....	26-27
Performance Curves, Nett Weight & Dimensions	
TS150-85	28-31
TS150-90.....	32-35
TS150-150.....	36-39
TS150-240.....	40-43
TS150-300	44-47
TS150-380.....	48-49
TS150-460.....	50-51
8" & 10" TS/TN/TL SERIES	
Constructional Data & Exploded View of Semi Axial Flow Pump.....	52-53
Performance Curves, Nett Weight & Dimensions	
TS200-390.....	54-57
TS200-475.....	58-61
TS250-625.....	62-65
TS250-800.....	66-69
TS250-A75.....	70-71
TP SERIES - THERMOPLASTIC SUBMERSIBLE PUMPS	
Construction, Applications, Features.....	73
Pumped Liquids.....	75
Pump Operating Limitations.....	75
Model Designation.....	75
Quick Selection Chart	76
4" TP SERIES	
Version TP - Constructional data & Exploded View of Radial & Semi - Axial Flow Pump.....	77-79
Performance Curves, Nett Weight & Dimensions	
TP100-5.....	80-81
TP100-7.....	82-83
TP100-10.....	84-85
TP100-15.....	86-87
TP100-20.....	88-89
TP100-25.....	90-91
TP100-40.....	92-93
TP100-50.....	94-95
TP100-70.....	96-97
TP100-90.....	98-99
CHARTS	
Cable Selection Chart	100-101
Conversion Chart	102

GENERAL DATA

STAINLESS STEEL SUBMERSIBLE PUMPS > TS/TN/TL 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/AISI 316/AISI 904L and the shaft is made of AISI 304/316/904L. 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	TS/TN/TL Series		
Nominal Diameter		4"	6"	8"	10"
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 /hr	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).

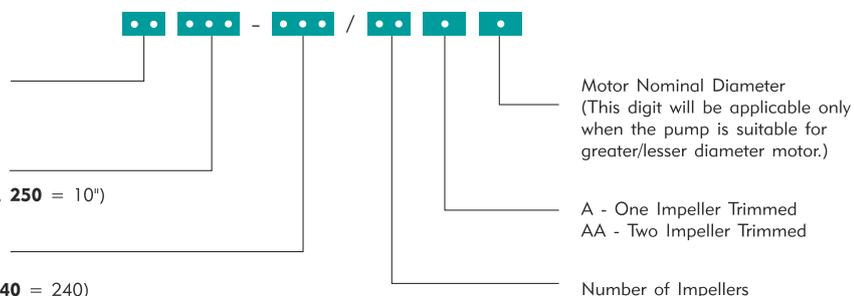
Model Designation Borehole Submersible Pumps

Versions

- TS** = AISI 304 construction
- TN** = AISI 316 construction
- TL** = AISI 904L construction

Pump Nominal Diameter (mm)
(**100** = 4", **150** = 6", **200** = 8", **250** = 10")

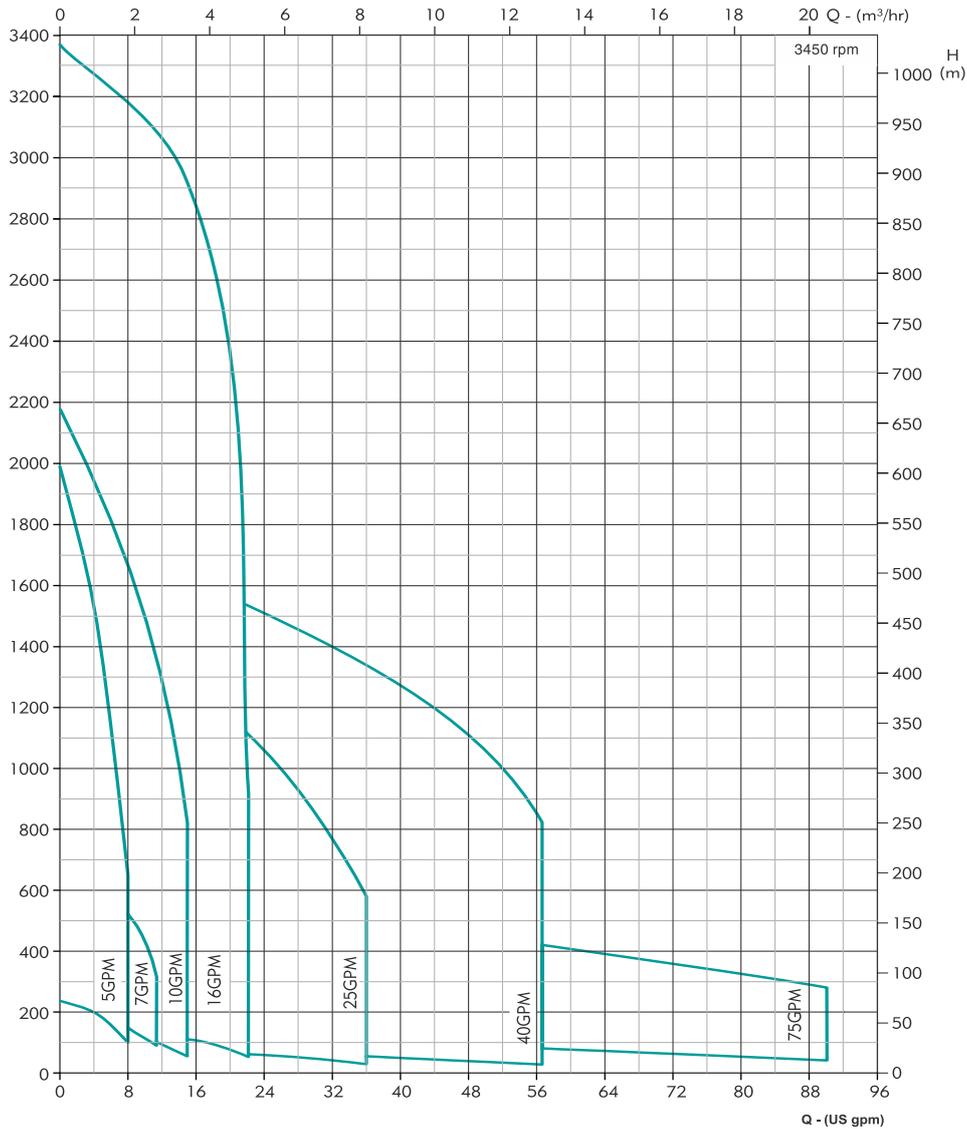
Nominal Flow in US gpm
(Actual Value to be mentioned.)
10 = 10, **50** = 50, **90** = 90, **240** = 240)



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 > TS100 Series > Version TS

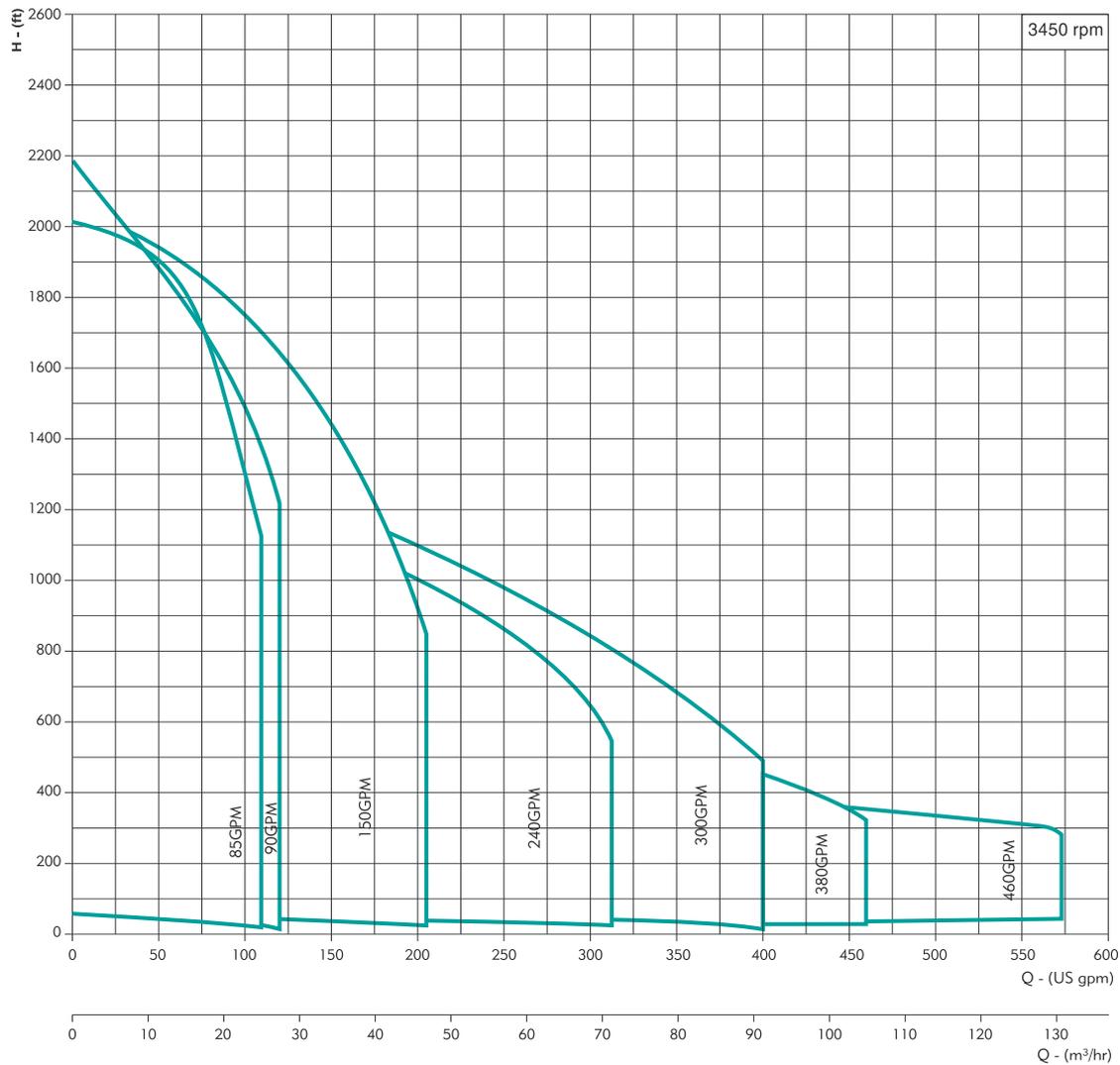


Performance Curve Conditions

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, Grade-3B
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 > TS150 Series > Version TS / TN / TL

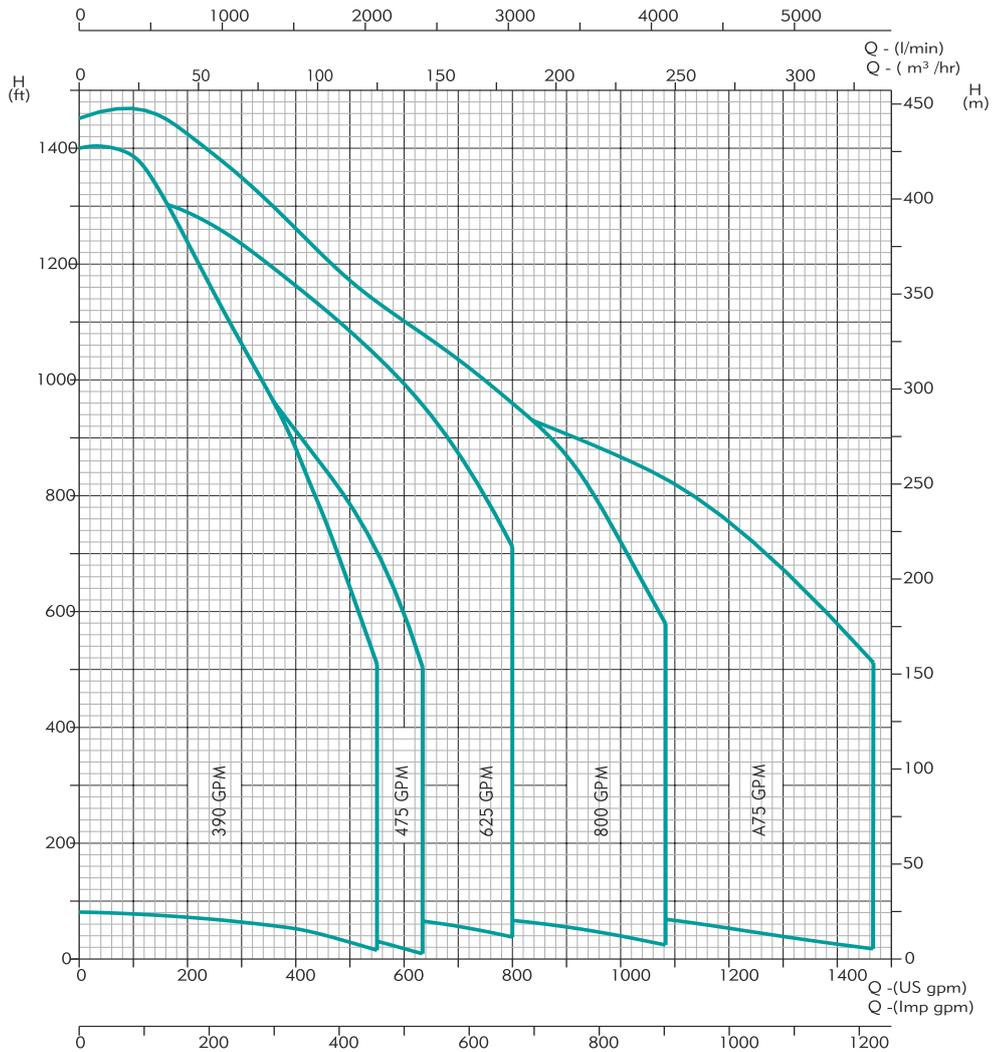


Performance Curve Conditions

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, Grade-3B
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 ➤ TS200 & 250 Series ➤ Version TS / TN / TL



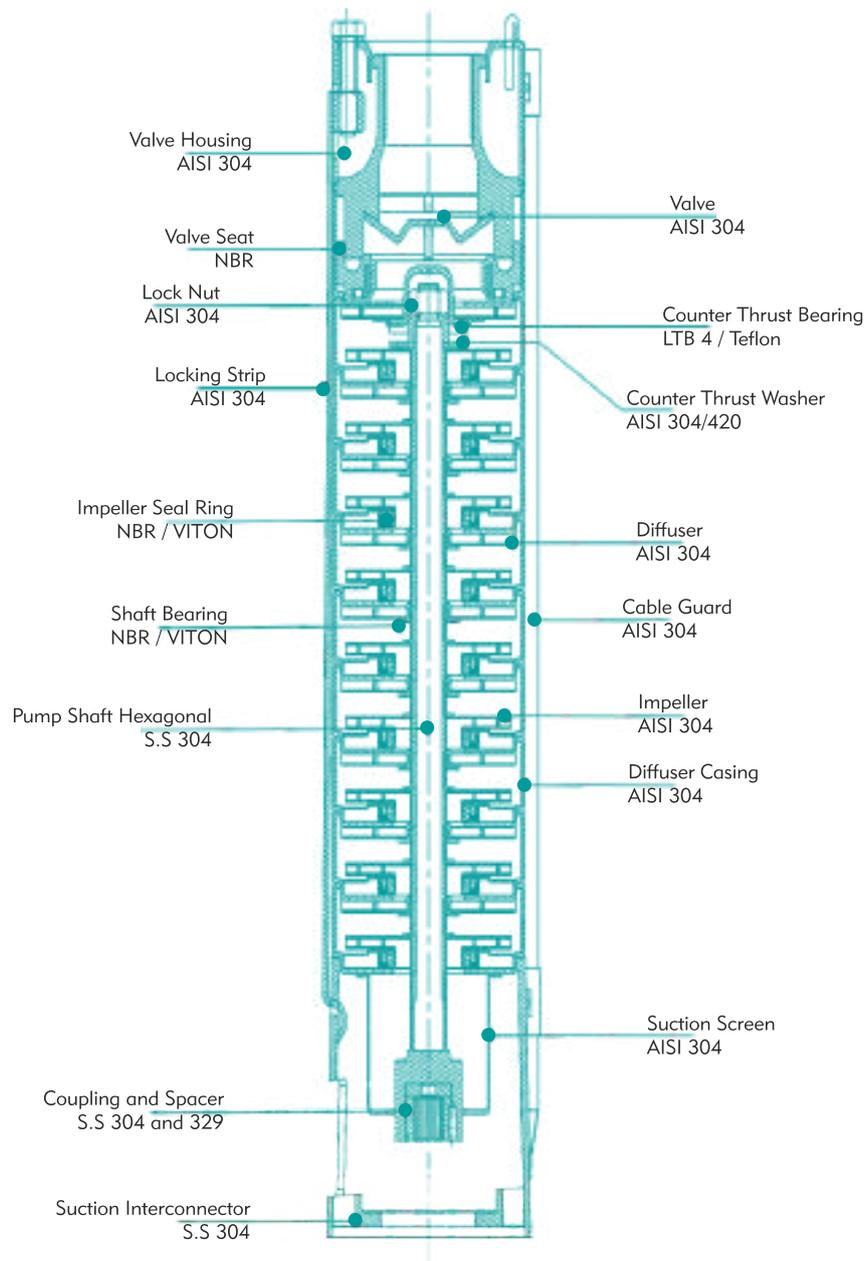
Performance Curve Conditions

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, Grade-3B
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 - 10gpm (1-2m³/hr)

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

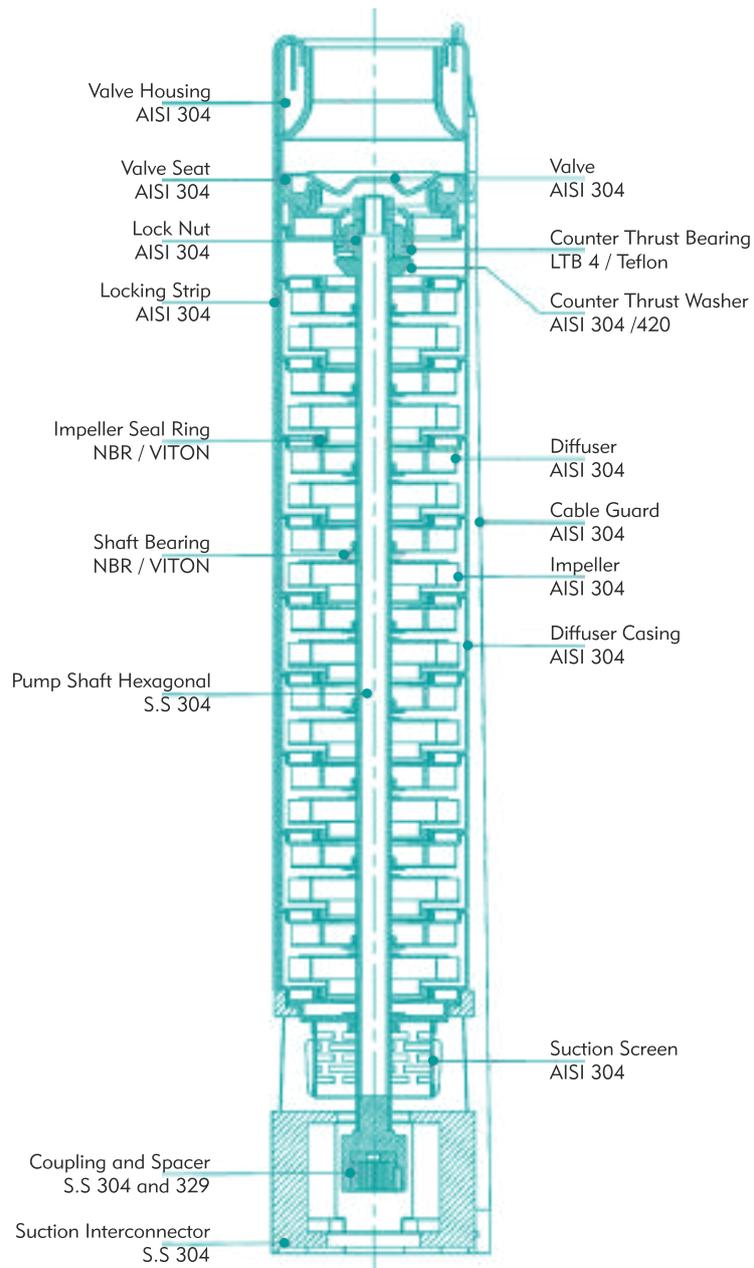


Pump Version - TS = AISI 304 Construction
NEMA mounting dimensions.

CONSTRUCTIONAL DATA

16 - 40gpm (3-8m²/hr)

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

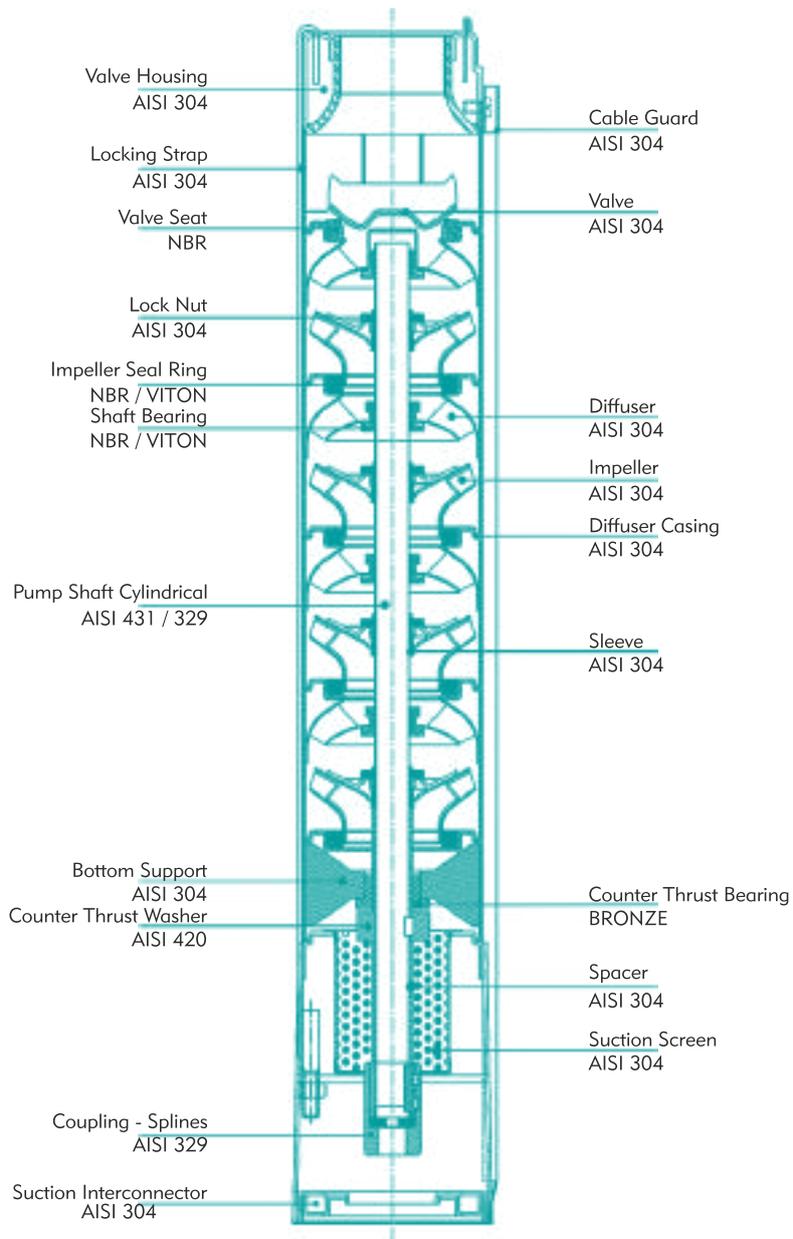


Pump Version - TS = AISI 304 Construction
NEMA mounting dimensions.

CONSTRUCTIONAL DATA

75gpm (14m³/hr)

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



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

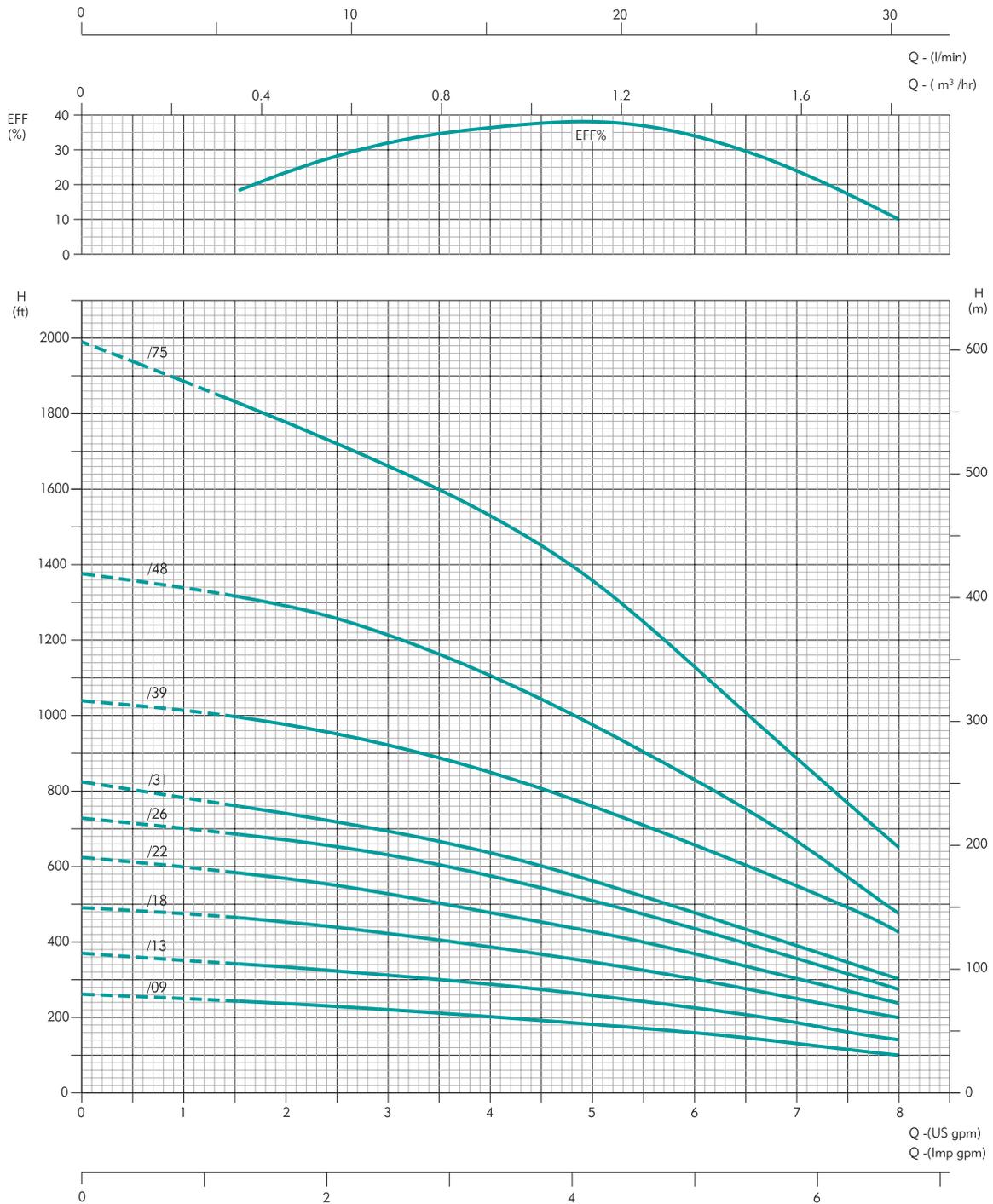
PERFORMANCE CURVES

TS SERIES > 4"

Model : **TS100-5 (1m³/hr)**

Outlet Size : **1" NPT**

3450 rpm



Curve tolerance according to ISO : 9906, Annex - A, Grade-3B.

PERFORMANCE DATA

TS SERIES > 4"

Model : **TS100-5 (1m³/hr)**

Outlet Size : **1" NPT**

3450 rpm

Pump Model	Power		m ³ /hr USGPM	0	0.45	0.91	1.36	1.82
	kW	HP		0	2	4	6	8
TS100-5/09	0.37	0.5	Total Dynamic Head in Meter	79	72	61	49	30
TS100-5/13	0.37	0.5		113	102	88	69	43
TS100-5/18	0.55	0.75		149	137	117	91	61
TS100-5/22	0.75	1		190	174	146	113	73
TS100-5/26	1.1	1.5		222	204	175	134	84
TS100-5/31	1.1	1.5		251	226	194	145	91
TS100-5/39	1.5	2		317	297	259	199	130
TS100-5/48	3	4		419	392	337	254	145
TS100-5/75	3.75	5		607	538	468	344	198

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.

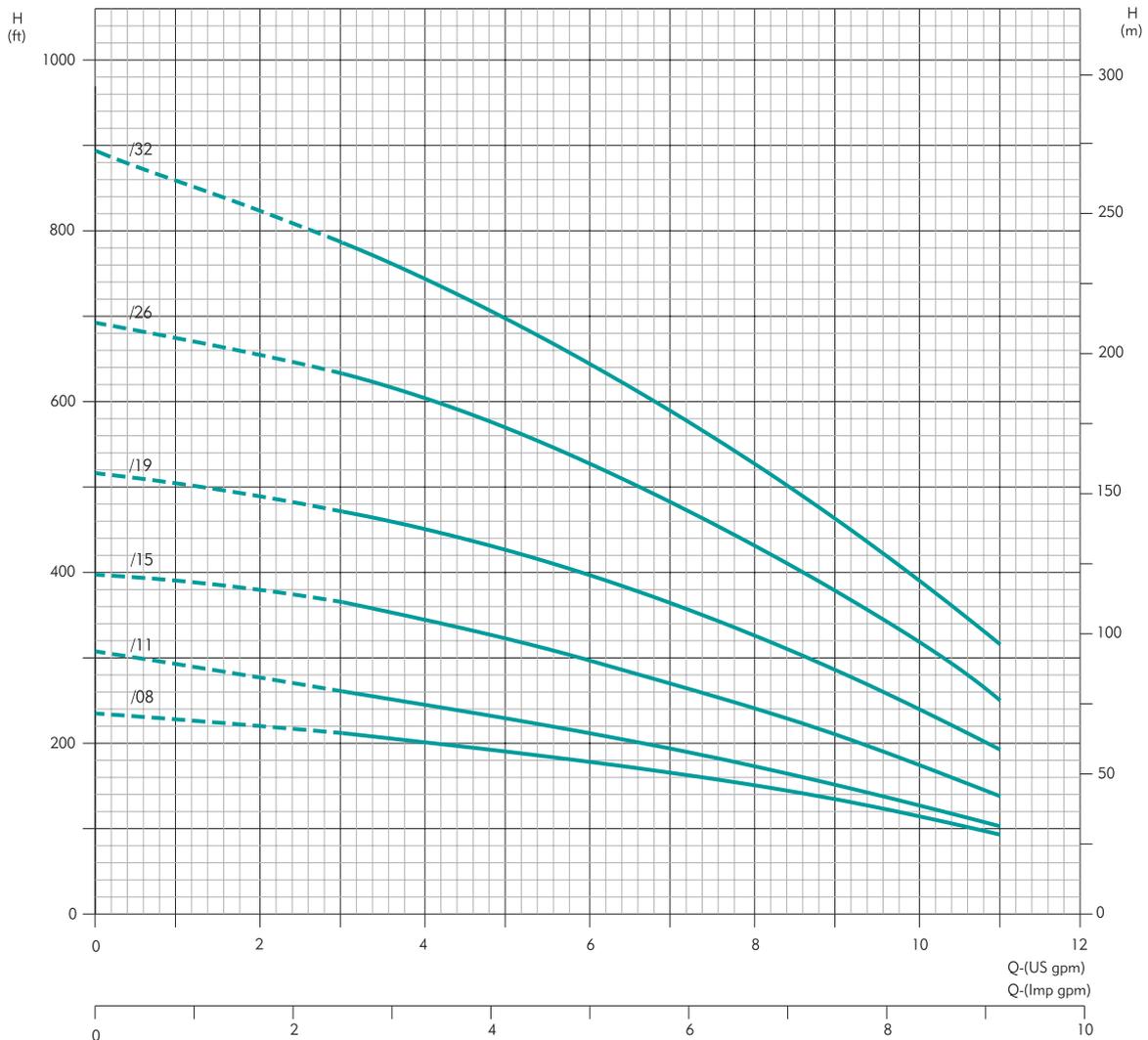
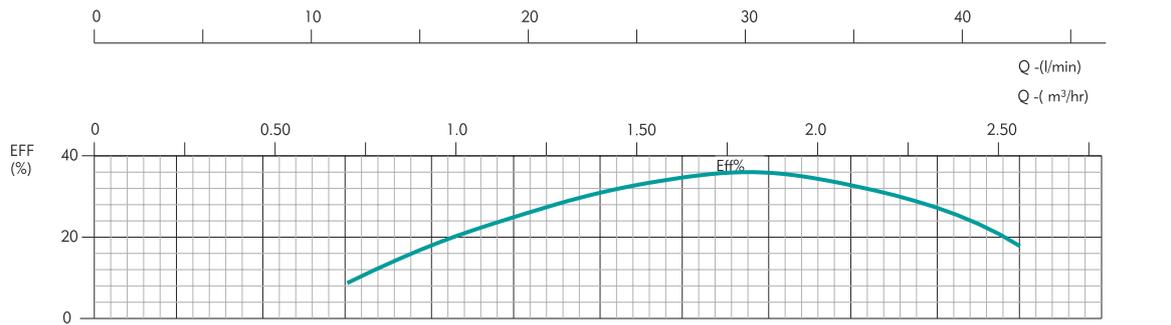
PERFORMANCE CURVES

TS SERIES > 4"

Model : **TS100-7 (1.5m³/hr)**

Outlet Size : **1" NPT**

3450 rpm



Curve tolerance according to ISO : 9906, Annex - A, Grade-3B.

PERFORMANCE DATA

TS SERIES > 4"

Model : **TS100-7 (1.5m³/hr)**

Outlet Size : **1" NPT**

3450 rpm

Pump Model	Power		m ³ /hr USGPM	0	0.68	1.36	2.04	2.50
	kW	HP		0	3	6	9	11
TS100-7/08	0.37	0.5	Total Dynamic Head in Meter	72	65	54	41	27
TS100-7/11	0.37	0.5		94	79	65	46	31
TS100-7/15	0.55	0.75		121	111	91	64	42
TS100-7/19	0.75	1		158	144	121	87	59
TS100-7/26	1.1	1.5		210	193	160	115	76
TS100-7/32	1.5	2		271	240	197	141	98

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.

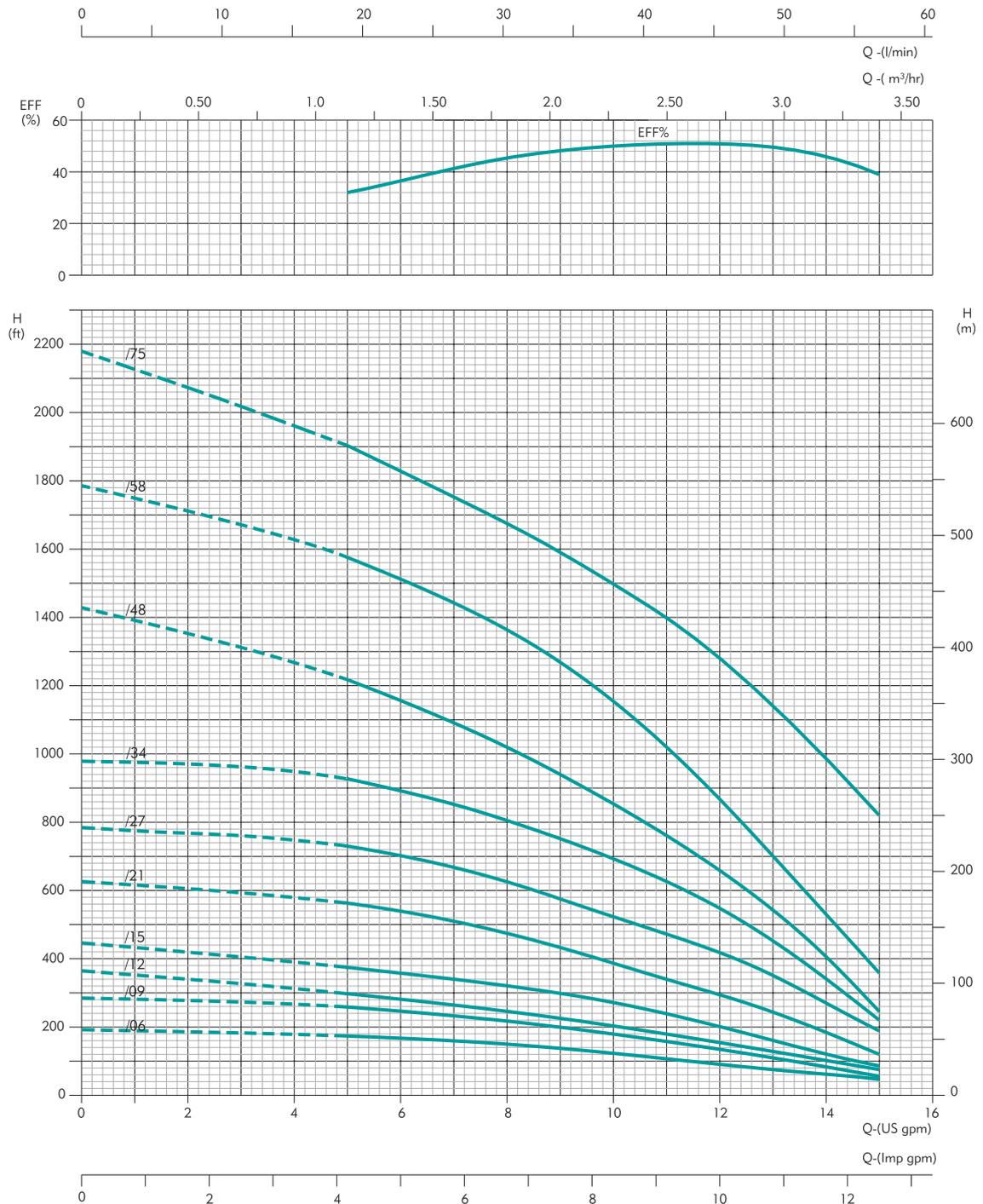
PERFORMANCE CURVES

TS SERIES > 4"

Model : **TS100-10 (2m³/hr)**

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

3450 rpm



Curve tolerance according to ISO : 9906, Annex - A, Grade-3B.

PERFORMANCE DATA

TS SERIES > 4"

Model : **TS100-10 (2m³/hr)**

Outlet Size : **1¼" NPT**

3450 rpm

Pump Model	Motor Power		m ³ /hr USGPM	0	1.36	1.81	1.81	2.27	2.72	3.40
	kW	HP		0	6	8	9	10	12	15
TS100-10/06	0.22	0.33	Total Dynamic Head in Meter	58	52	46	44	37	27	14
TS100-10/09	0.37	0.5		85	76	67	61	55	41	17
TS100-10/12	0.55	0.75		111	85	75	67	61	49	23
TS100-10/15	0.75	1		136	110	98	91	84	61	27
TS100-10/21	1.1	1.5		191	165	146	132	118	91	38
TS100-10/27	1.5	2		240	213	208	192	177	140	57
TS100-10/34	2.2	3		297	273	245	229	213	168	67
TS100-10/48	3.7	5		434	354	312	287	259	201	75
TS100-10/58	3.7	5		544	462	419	390	351	264	110
TS100-10/75	7.5	10		664	557	512	485	457	390	250

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.

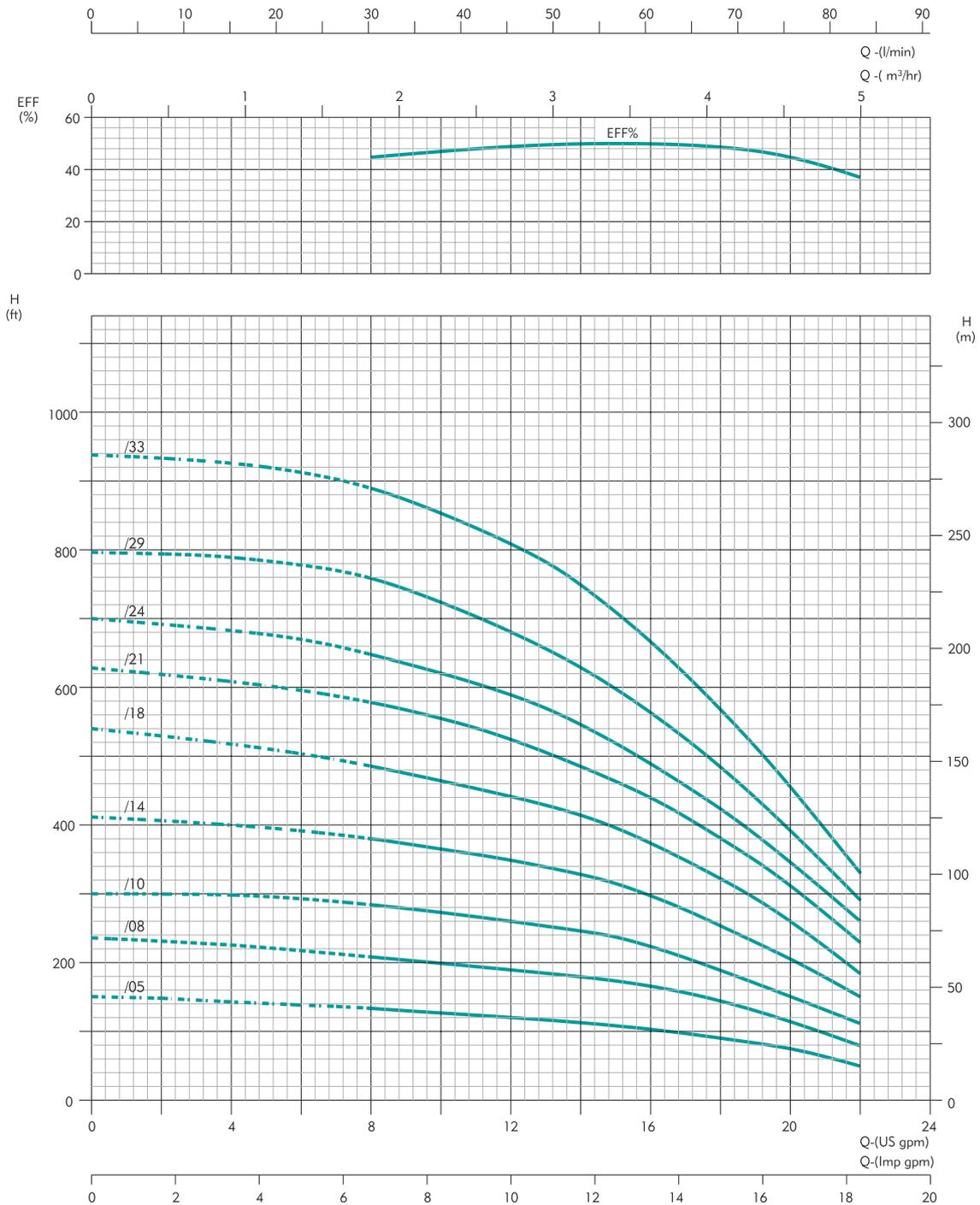
PERFORMANCE CURVES

TS SERIES > 4"

Model : **TS100-16 (3m³/hr)**

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

3450 rpm



Curve tolerance according to ISO : 9906, Annex - A, Grade-3B.

PERFORMANCE DATA

TS SERIES > 4"

Model : **TS100-16 (3m³/hr)**

Outlet Size : **1¼" NPT**

3450 rpm

Pump Model	Power		m ³ /hr USGPM	0	2.27	2.72	3.18	3.6	4.09	4.5	5.00
	kW	HP		0	10	12	14	16	18	20	22
TS100-16/05	0.37	0.5	Total Dynamic Head in Meter	46	40	37	35	32	27	24	15
TS100-16/08	0.55	0.75		72	61	58	55	52	44	35	24
TS100-16/10	0.75	1		91	84	79	74	70	58	46	35
TS100-16/14	1.1	1.5		126	111	107	101	91	78	61	47
TS100-16/18	1.5	2		165	142	136	128	116	98	80	55
TS100-16/21	2.2	3		192	171	162	146	134	116	94	70
TS100-16/24	2.2	3		213	189	180	168	149	131	107	79
TS100-16/29	3	4		243	220	207	192	171	148	121	88
TS100-16/33	3.7	5		287	261	247	229	204	174	139	102

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.

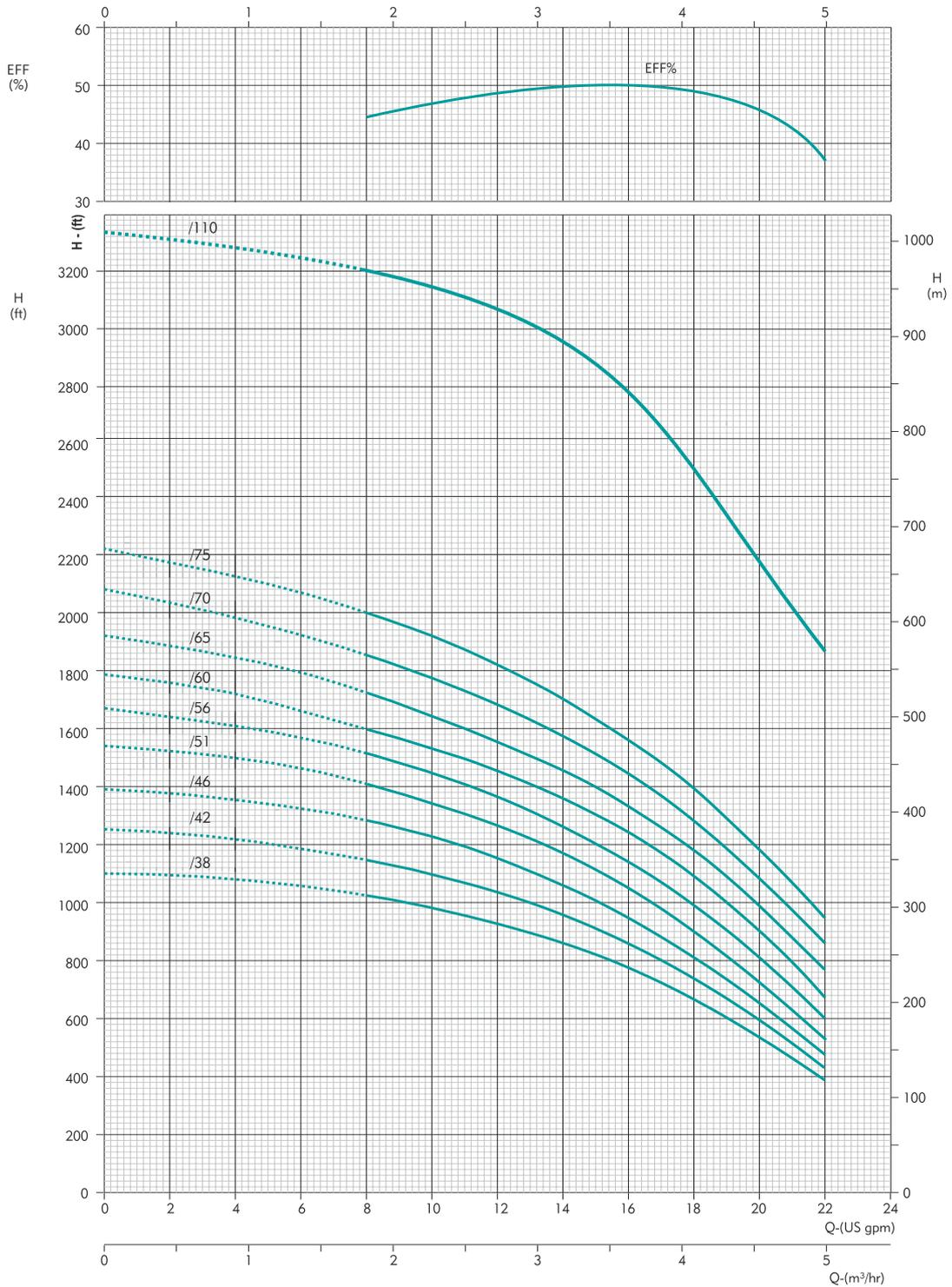
PERFORMANCE CURVES

TS SERIES > 4"

Model : **TS100-16 (3m³/hr)**

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

3450 rpm



Curve tolerance according to ISO : 9906, Annex - A, Grade-3B.

PERFORMANCE DATA

TS SERIES > 4"

Model : **TS100-16 (3m³/hr)**

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

3450 rpm

Pump Model	Power		m ³ /hr USGPM	0	2.27	2.72	3.18	3.60	4.09	4.5	5.00
	kW	HP		0	10	12	14	16	18	20	22
TS100-16/38	3.7	5	Total Dynamic Head in Meter	335	299	283	262	238	205	165	119
TS100-16/42	5.5	7.5		382	335	317	293	263	226	183	133
TS100-16/46	5.5	7.5		424	375	351	323	288	247	198	146
TS100-16/51	5.5	7.5		470	410	387	357	320	274	221	168
TS100-16/56	5.5	7.5		510	441	417	384	347	302	258	183
TS100-16/60	5.5	7.5		543	468	445	415	379	334	274	207
TS100-16/65	7.5	10		586	494	471	443	406	360	302	235
TS100-16/70	7.5	10		635	541	513	480	441	390	332	262
TS100-16/75	7.5	10		677	585	556	518	475	433	360	290
TS100-16/110-6	11	15		1026	959	936	901	850	759	664	568

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
TS100-16/110-6	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.

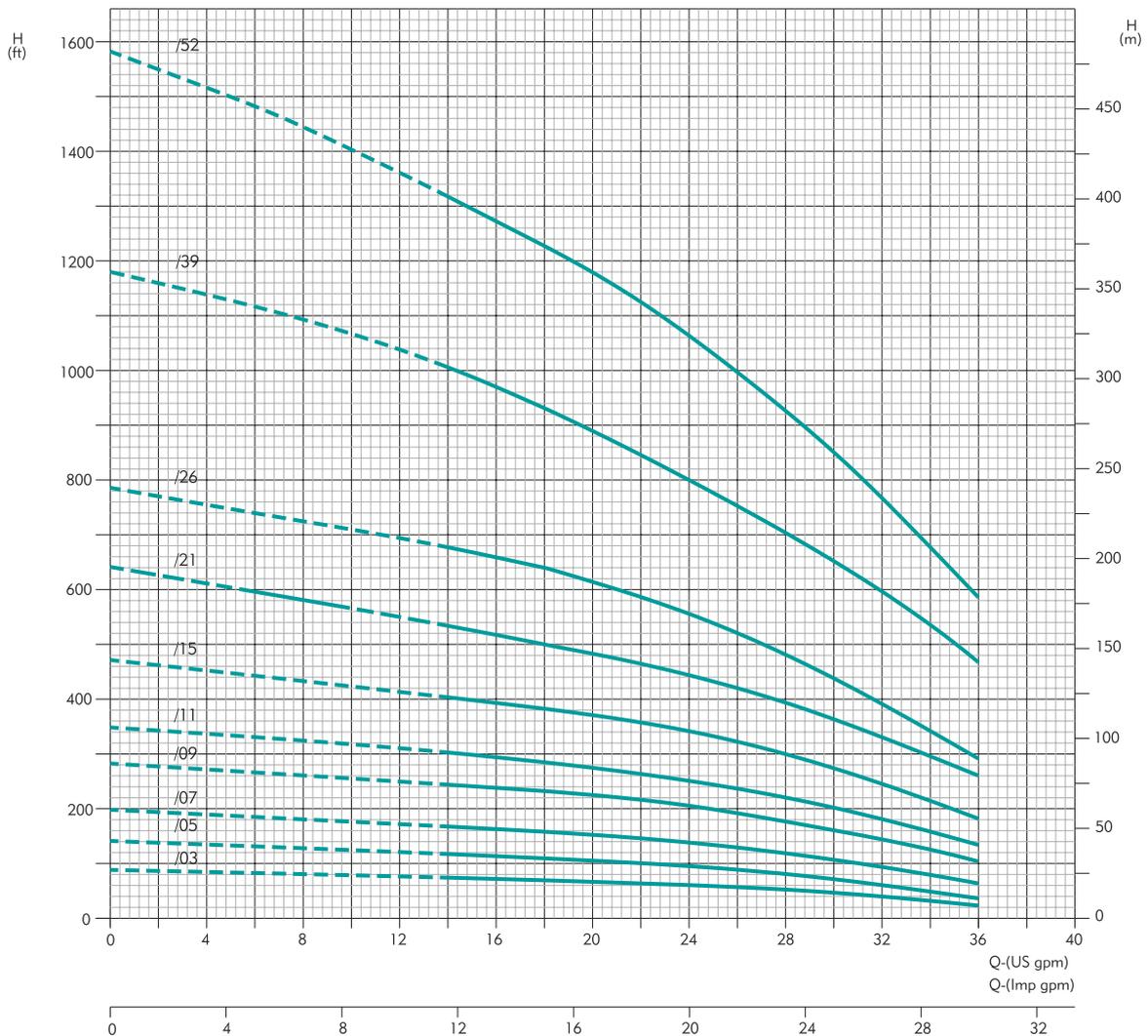
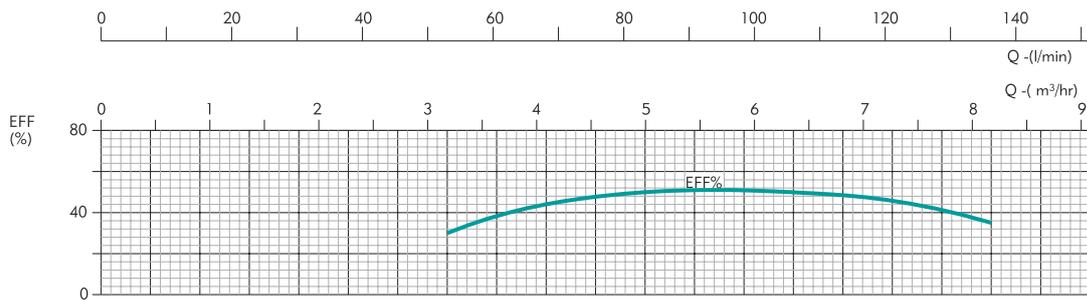
PERFORMANCE CURVES

TS SERIES > 4"

Model : **TS100-25 (5m³/hr)**

Outlet Size : **1½" NPT**

3450 rpm



Curve tolerance according to ISO : 9906, Annex - A, Grade-3B.

PERFORMANCE DATA

TS SERIES > 4"

Model : **TS100-25 (5m³/hr)**

Outlet Size : **1½" NPT**

3450 rpm

Pump Model	Power		m ³ /hr USGPM	0	3.2	4.1	5	5.7	6.4	7.3	8.2
	kW	HP		0	14	18	22	25	28	32	36
TS100-25/03	0.37	0.5	Total Dynamic Head in Meter	27	23	21	20	18	15	12	8
TS100-25/05	0.55	0.75		43	35	35	30	29	24	23	11
TS100-25/07	0.75	1		61	52	49	45	42	37	30	20
TS100-25/09	1.1	1.5		85	76	72	67	61	53	45	32
TS100-25/11	1.5	2		107	91	88	82	75	68	54	41
TS100-25/15	2.2	3		144	122	116	109	102	91	75	55
TS100-25/21	3 / 3.7	4 / 5		195	162	152	143	132	119	102	79
TS100-25/26	3.7 / 4.5	5 / 6		240	206	195	179	165	145	119	91
TS100-25/39	5.5	7.5		360	307	286	258	238	215	182	143
TS100-25/52	7.5	10		482	402	375	343	316	290	233	178

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.

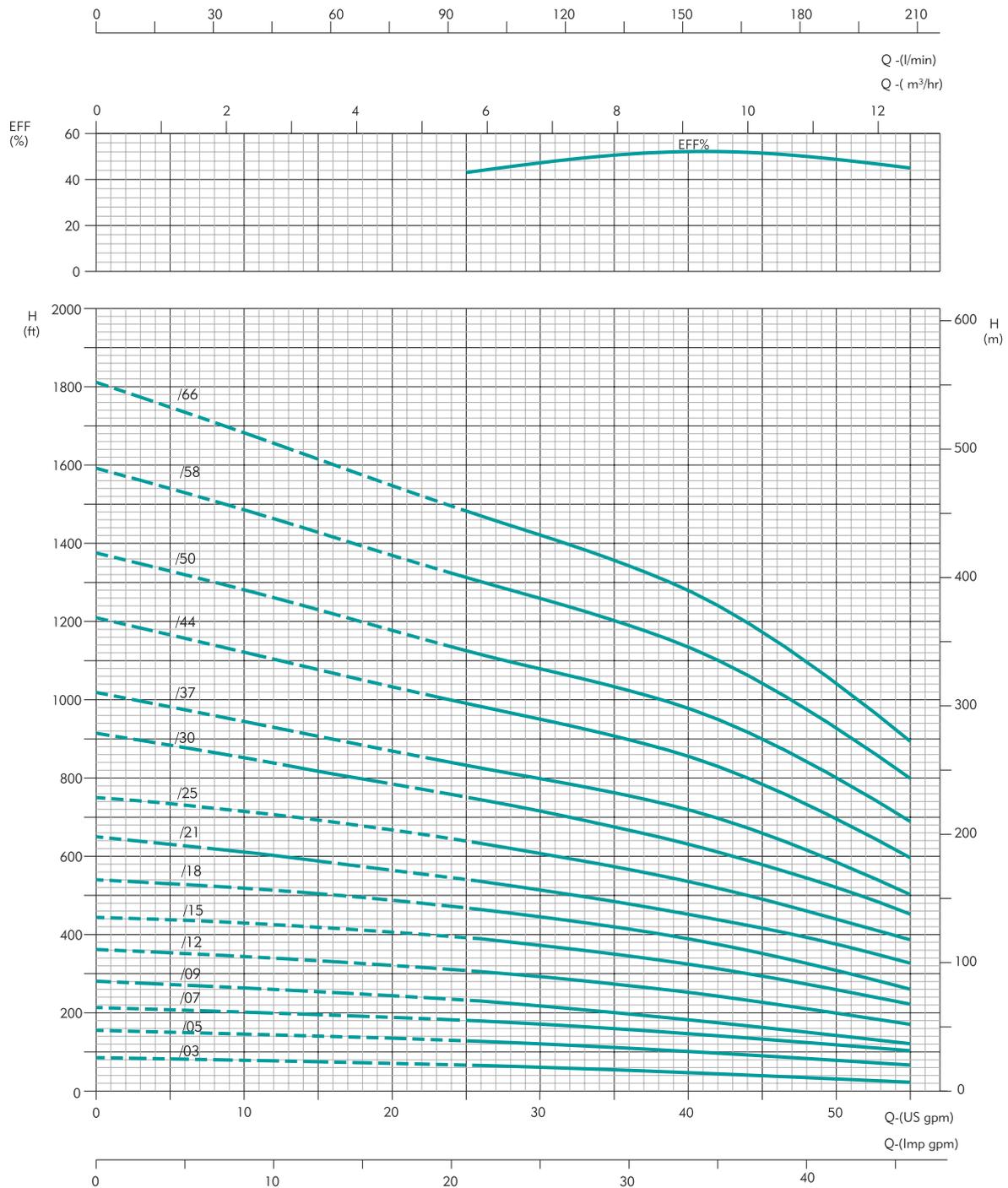
PERFORMANCE CURVES

TS SERIES > 4"

Model : **TS100-40 (8m³/hr)**

Outlet Size : **2" NPT**

3450 rpm



Curve tolerance according to ISO : 9906, Annex - A, Grade-3B.

PERFORMANCE DATA

TS SERIES > 4"

Model : **TS100-40 (8m³/hr)**

Outlet Size : **2" NPT**

3450 rpm

Pump Model	Power		m ³ /hr USGPM	0	3.41	6.81	10.22	12.7
	kW	HP		0	15	30	45	55
TS100-40/03	0.75	1	Total Dynamic Head in Meter	27	23	19	12	6
TS100-40/05	1.1	1.5		48	43	37	27	18
TS100-40/07	1.5	2		65	59	52	41	30
TS100-40/09	2.2	3		85	78	67	49	38
TS100-40/12	3.7/4	5/5.5		110	101	90	69	52
TS 100-40/15	3.7/4.5	5/6		134	128	113	90	68
TS100-40/18	5.5	7.5		165	152	137	109	79
TS100-40/21	5.5	7.5		198	162	156	128	99
TS100-40/25	5.5	7.5		229	210	185	151	119
TS100-40/30	7.5	10		279	250	218	178	139
TS100-40/37-6	11	15		311	274	244	201	152
TS100-40/44-6	11	15		369	329	290	239	183
TS100-40/50-6	15	20		420	375	361	274	212
TS100-40/58-6	15	20		485	433	387	317	244
TS100-40/66-6	15	20		552	494	433	359	274

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.

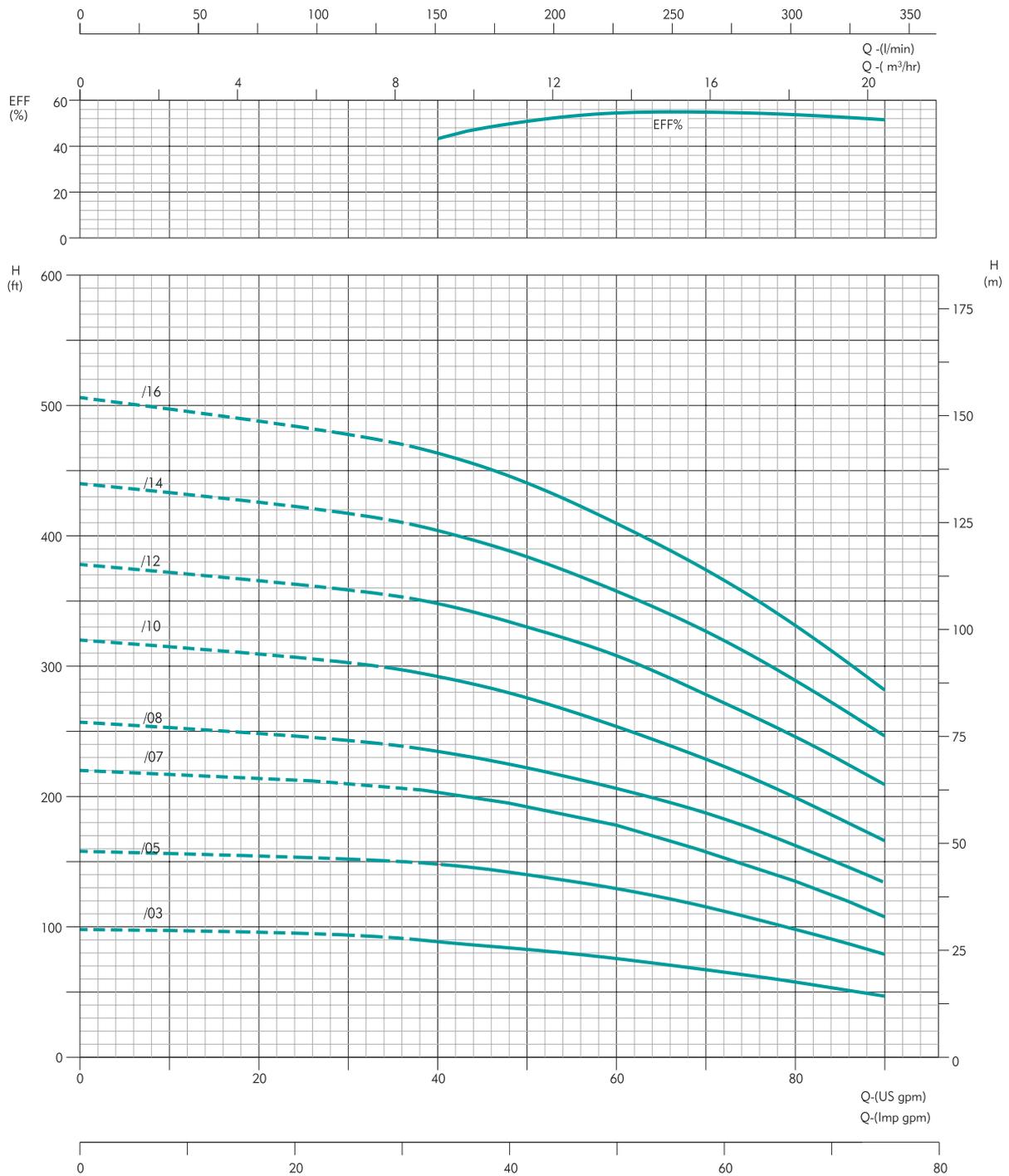
PERFORMANCE CURVES

TS SERIES > 4"

Model : **TS100-75 (14m³/hr)**

Outlet Size : **2" NPT**

3450 rpm



Curve tolerance according to ISO : 9906, Annex - A, Grade-3B.

PERFORMANCE DATA

TS SERIES > 4"

Model : **TS100-75 (14m³/hr)**

Outlet Size : **2" NPT**

3450 rpm

Pump Model	Power		m ³ /hr USGPM	0	6.81	13.63	18.17	20.40
	kW	HP		0	30	60	80	90
TS100-75/03	1.5	2	Total Dynamic Head in Meter	30	29	23	18	14
TS100-75/05	2.2	3		48	46	40	30	24
TS100-75/07	3.7/4	5/5.5		67	64	53	40	34
TS100-75/08	3.7/5.5	5/7.5		79	74	63	49	41
TS100-75/10	5.5	7.5		98	93	78	61	51
TS100-75/12	5.5/7.5	7.5/10		116	109	94	75	64
TS100-75/14	7.5	10		134	127	109	87	75
TS100-75/16	7.5	10		155	146	125	101	85

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

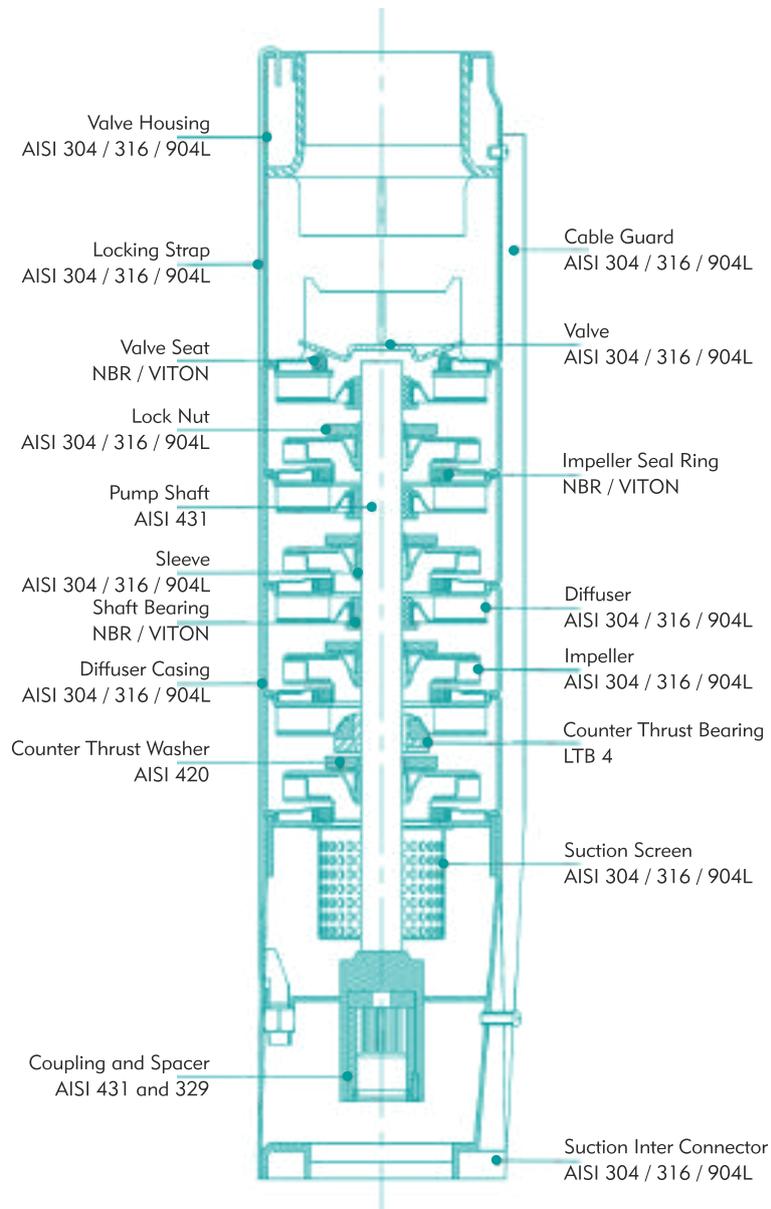


Pump Height(H) & Weight(lbs) are approximate.
These pumps can also be supplied with BSP standard discharge outlet on request.

CONSTRUCTIONAL DATA

85 - 90 gpm (17 - 18 m³/hr)

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

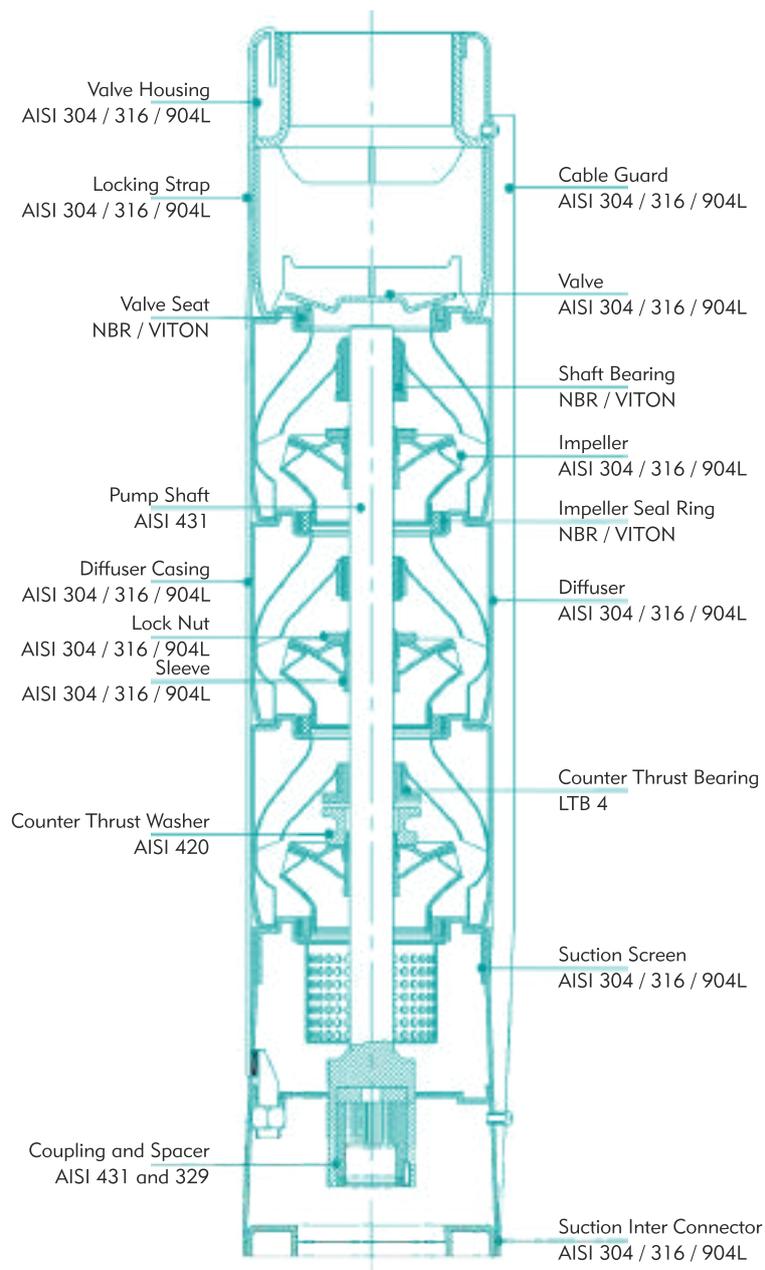


Pump Version - TS = AISI 304 Construction
 Pump Version - TN = AISI 316 Construction
 Pump version - TL = AISI 904L Construction
 NEMA mounting dimensions.

CONSTRUCTIONAL DATA

150 - 300 gpm (30 - 60 m³/hr)

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



Pump Version - TS = AISI 304 Construction
 Pump Version - TN = AISI 316 Construction
 Pump version - TL = AISI 904L Construction
 NEMA mounting dimensions.

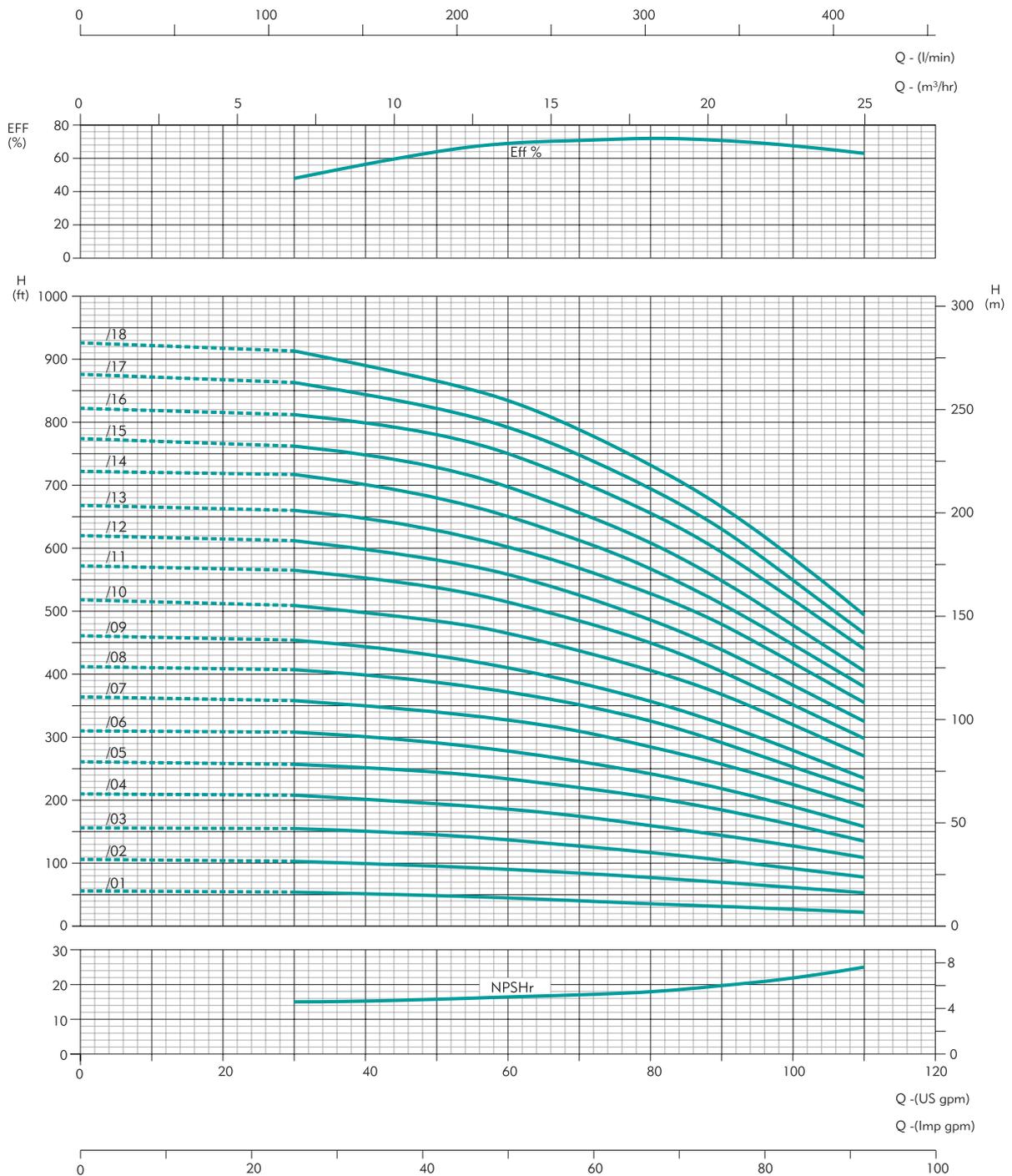
PERFORMANCE CURVES

TS / TN / TL SERIES > 6"

Model : **TS150-85 (17m³/hr)**

Outlet Size : **2½" / 3" NPT**

3450 rpm



Curve tolerance according to ISO : 9906, Annex - A, Grade-3B.

PERFORMANCE DATA

TS / TN / TL SERIES > 6"

Model : **TS150-85 (17m³/hr)**

Outlet Size : **2½" / 3" NPT**

3450 rpm

Pump Model*	Power		m ³ /hr USGPM	0	7	11	14	16	18	20	25
	kW	HP		0	30	50	60	70	80	90	110
TS150-85/01-4	1.1	1.5	Total Dynamic Head in Meter	17	16	15	14	12	12	11	7
TS150-85/02-4	2.2	3		32	31	30	29	26	24	23	16
TS150-85/03	3.7	5		48	47	45	41	39	36	32	24
TS150-85/04	3.7	5		64	63	59	57	53	48	44	33
TS150-85/05	5.5	7.5		80	78	75	71	67	62	57	41
TS150-85/06	5.5	7.5		94	94	89	84	80	73	67	79
TS150-85/07	7.5	10		111	109	104	100	94	87	78	58
TS150-85/08	7.5	10		126	124	118	113	106	99	88	66
TS150-85/09	7.5	10		141	138	131	125	118	78	99	72
TS150-85/10	11	15		158	155	148	142	139	124	112	82
TS150-85/11	11	15		173	172	164	154	148	131	123	131
TS150-85/12	11	15		189	187	177	170	160	148	134	99
TS150-85/13	11	15		204	201	191	183	173	160	146	108
TS150-85/14	12.5	17.5		220	219	208	198	187	174	157	116
TS150-85/15	12.5	17.5		236	232	222	213	201	186	162	123
TS150-85/16	15	20		251	247	238	229	215	201	181	134
TS150-85/17	15	20		267	263	251	242	228	212	193	142
TS150-85/18	15	20		282	278	266	255	240	224	202	151

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

* For AISI 904L replace TS with TL : 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.



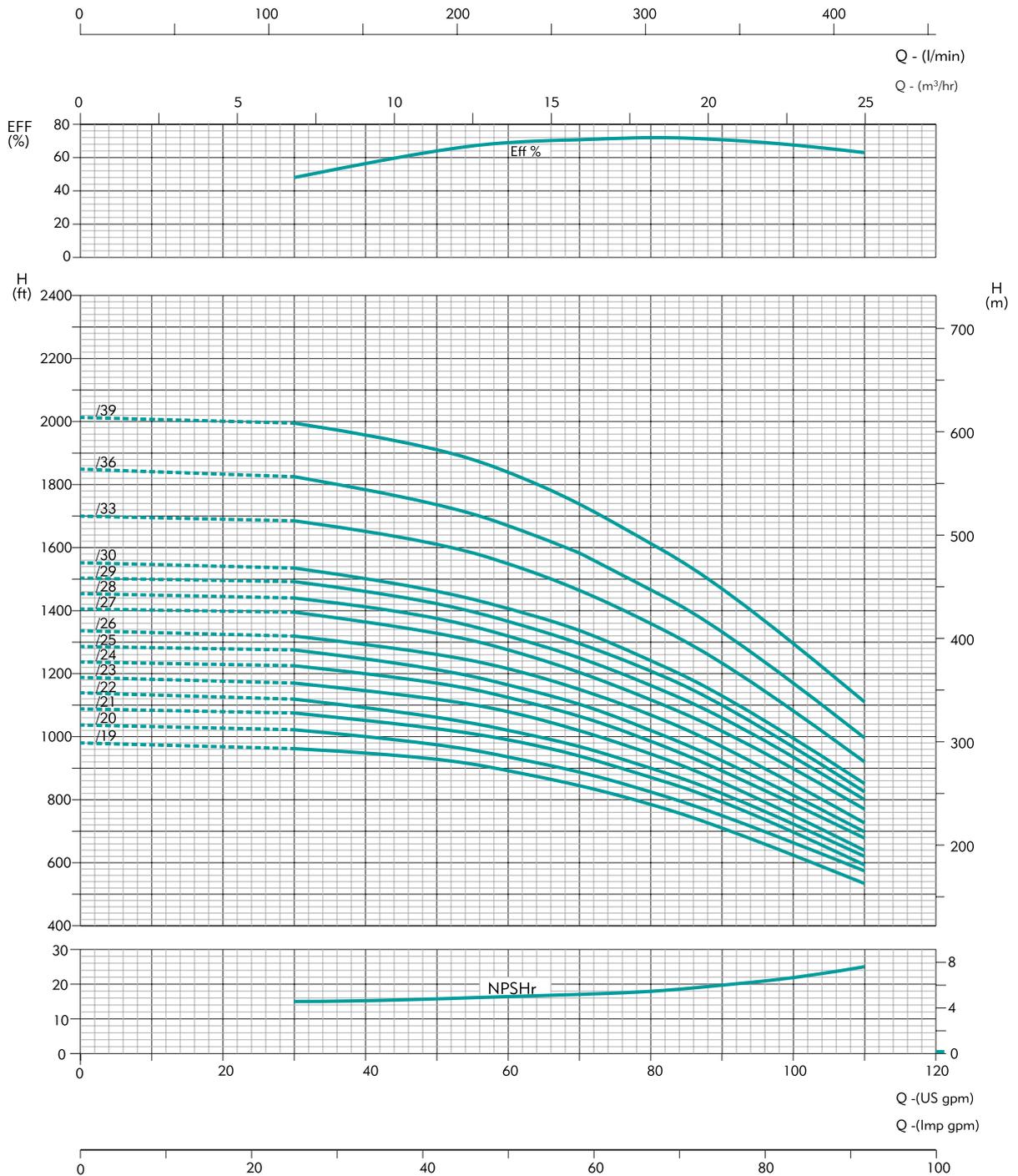
PERFORMANCE CURVES

TS / TN / TL SERIES > 6"

Model : **TS150-85 (17m³/hr)**

Outlet Size : **2½" / 3" NPT**

3450 rpm



Curve tolerance according to ISO : 9906, Annex - A, Grade-3B.

PERFORMANCE DATA

TS / TN / TL SERIES > 6"

Model : **TS150-85 (17m³/hr)**

Outlet Size : **2½" / 3" NPT**

3450 rpm

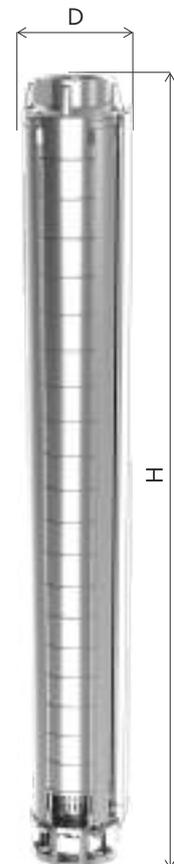
Pump Model*	Power		m ³ /hr USGPM	0	7	11	14	16	18	20	25
	kW	HP		0	30	50	60	70	80	90	110
TS150-85/19	18.5	25	Total Dynamic Head in Meter	299	293	283	272	258	239	217	163
TS150-85/20	18.5	25		316	312	297	285	271	251	229	175
TS150-85/21	18.5	25		332	328	312	302	287	265	243	181
TS150-85/22	18.5	25		347	341	324	311	296	274	251	189
TS150-85/23	22	30		362	361	341	330	311	289	262	195
TS150-85/24	22	30		377	373	357	343	325	301	273	207
TS150-85/25	22	30		392	389	370	355	336	311	282	213
TS150-85/26	22	30		407	402	384	371	351	326	296	221
TS150-85/27	26	35		428	425	405	390	367	341	311	235
TS150-85/28	26	35		443	439	420	402	381	355	325	244
TS150-85/29	26	35		458	455	435	417	396	369	337	251
TS150-85/30	26	35		473	468	446	429	408	378	346	259
TS150-85/33	30	40		518	514	492	472	447	414	377	280
TS150-85/36	30	40		564	556	530	510	482	447	406	304
TS150-85/39	37	50		614	608	583	561	530	491	450	338

* For AISI 316 replace TS with TN : Performance Data remains same.
 * For AISI 904L replace TS with TL : 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.



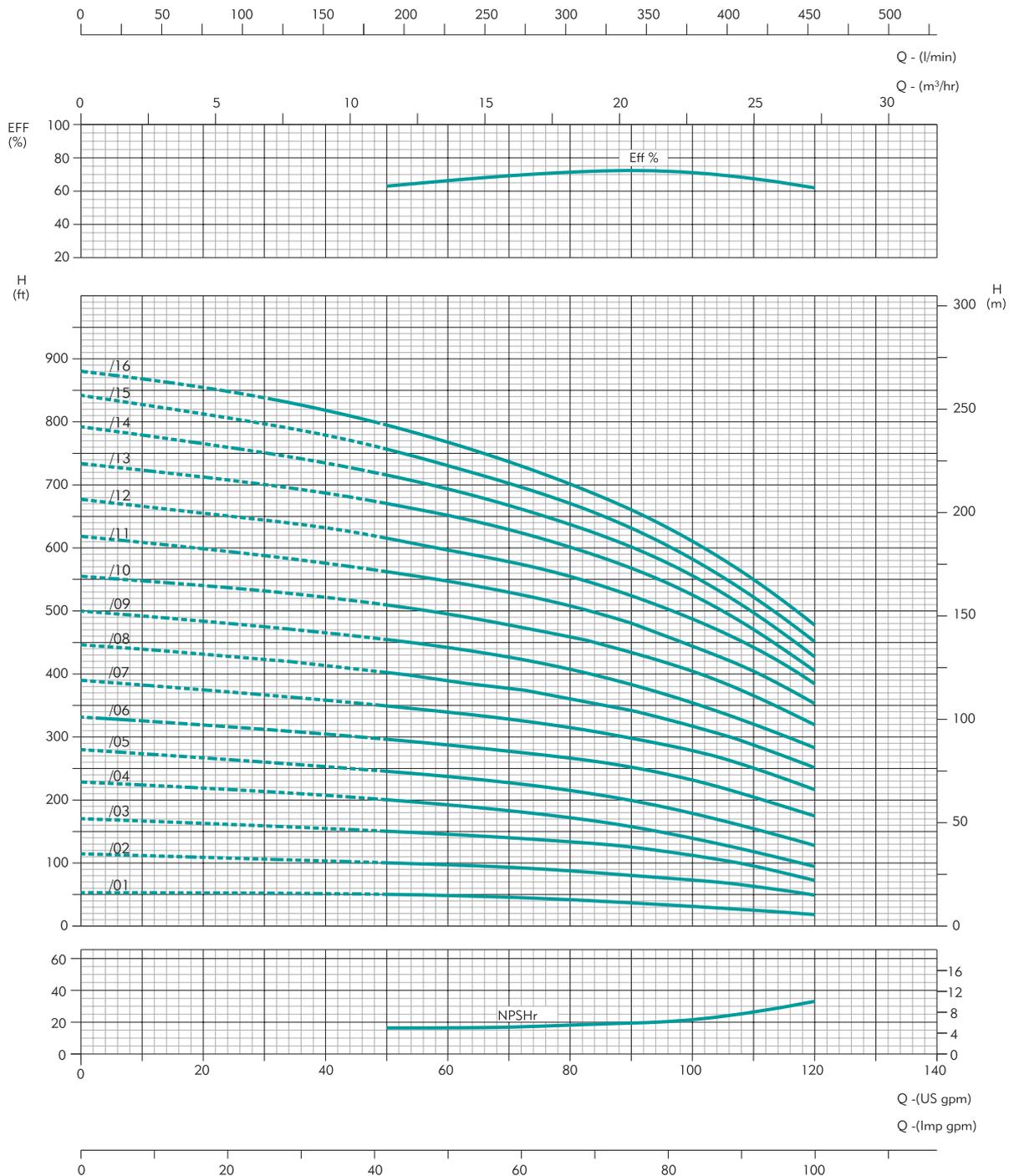
PERFORMANCE CURVES

TS / TN / TL SERIES > 6"

Model : **TS150-90 (18m³/hr)**

Outlet Size : **3" NPT**

3450 rpm



Curve tolerance according to ISO : 9906, Annex - A, Grade-3B.

PERFORMANCE DATA

TS / TN / TL SERIES > 6"

Model : **TS150-90 (18m³/hr)**

Outlet Size : **3" NPT**

3450 rpm

Pump Model*	Power		m ³ /hr USGPM	0	11.00	18.17	23.00	27.00
	kW	HP		0	50	80	100	120
TS150-90/01-4	1.1	1.5	Total Dynamic Head in Meter	16	15	14	9	6
TS150-90/02-4	2.2	3		36	30	28	23	15
TS150-90/03	3	4		53	46	42	37	21
TS150-90/04	3.75	5		70	61	53	43	29
TS150-90/05	5.5	7.5		85	76	66	55	39
TS150-90/06	5.5	7.5		101	91	80	70	53
TS150-90/07	7.5	10		119	107	95	85	66
TS150-90/08	7.5	10		137	123	110	96	76
TS150-90/09	9.3	12.5		152	138	125	108	86
TS150-90/10	11	15		168	156	140	123	98
TS150-90/11	11	15		190	172	155	137	107
TS150-90/12	13	17.5		206	189	168	149	118
TS150-90/13	13	17.5		223	205	183	160	123
TS150-90/14	15	20		241	220	194	169	130
TS150-90/15	15	20		256	231	204	178	137
TS150-90/16	15/18.5	20/25		263	243	213	187	145

* For AISI 316 replace TS with TN : Performance Data remains same.
 * For AISI 904L replace TS with TL : 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.



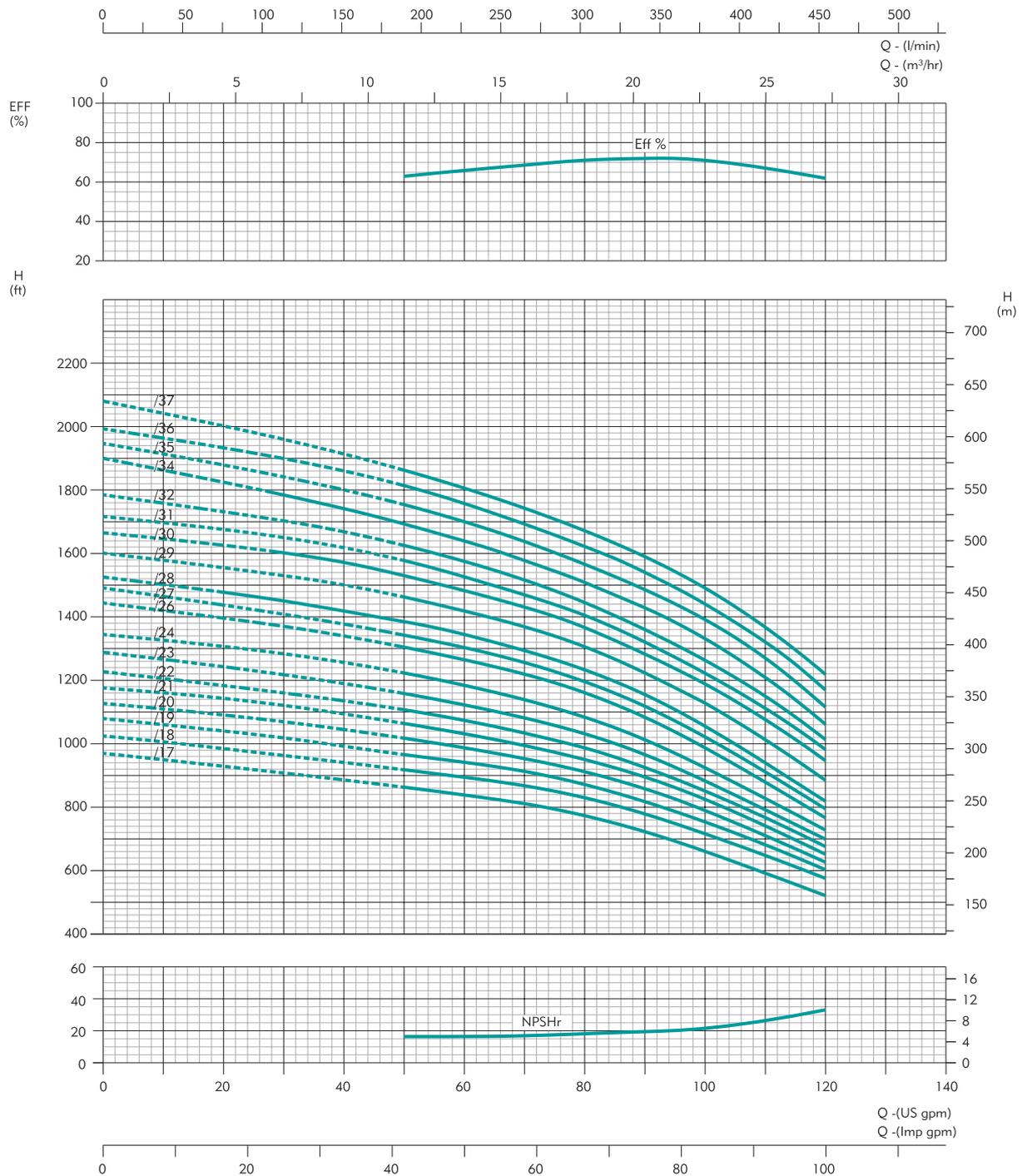
PERFORMANCE CURVES

TS / TN / TL SERIES > 6"

Model : **TS150-90 (18m³/hr)**

Outlet Size : **3" NPT**

3450 rpm



Curve tolerance according to ISO : 9906, Annex - A, Grade-3B.

PERFORMANCE DATA

TS / TN / TL SERIES > 6"

Model : **TS150-90 (18m³/hr)**

Outlet Size : **3" NPT**

3450 rpm

Pump Model*	Power		m ³ /hr USGPM	0	11.00	18.17	23.00	27.00
	kW	HP		0	50	80	100	120
TS150-90/17	18.5	25	Total Dynamic Head in Meter	296	262	236	201	158
TS150-90/18	18.5	25		312	280	253	218	172
TS150-90/19	22	30		329	294	265	229	185
TS150-90/20	22	30		345	310	278	243	189
TS150-90/21	22	30		358	323	290	252	200
TS150-90/22	26	35		375	337	301	262	206
TS150-90/23	26	35		392	354	315	268	213
TS 150-90/24	26	35		410	372	332	282	221
TS150-90/26	26	35		439	398	355	300	233
TS150-90/27	26	35		454	410	366	312	243
TS150-90/28	30	40		463	424	375	320	248
TS150-90/29	30	40		488	446	396	342	271
TS150-90/30	37	50		507	465	415	365	288
TS150-90/31	37	50		522	480	430	373	300
TS150-90/32	37	50		546	494	440	386	308
TS150-90/34	37	50		579	518	460	406	323
TS150-90/35	37	50		594	534	477	426	339
TS150-90/36	40	55	608	552	492	440	357	
TS150-90/37	45	60	635	567	510	457	371	

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

* For AISI 904L replace TS with TL : 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.



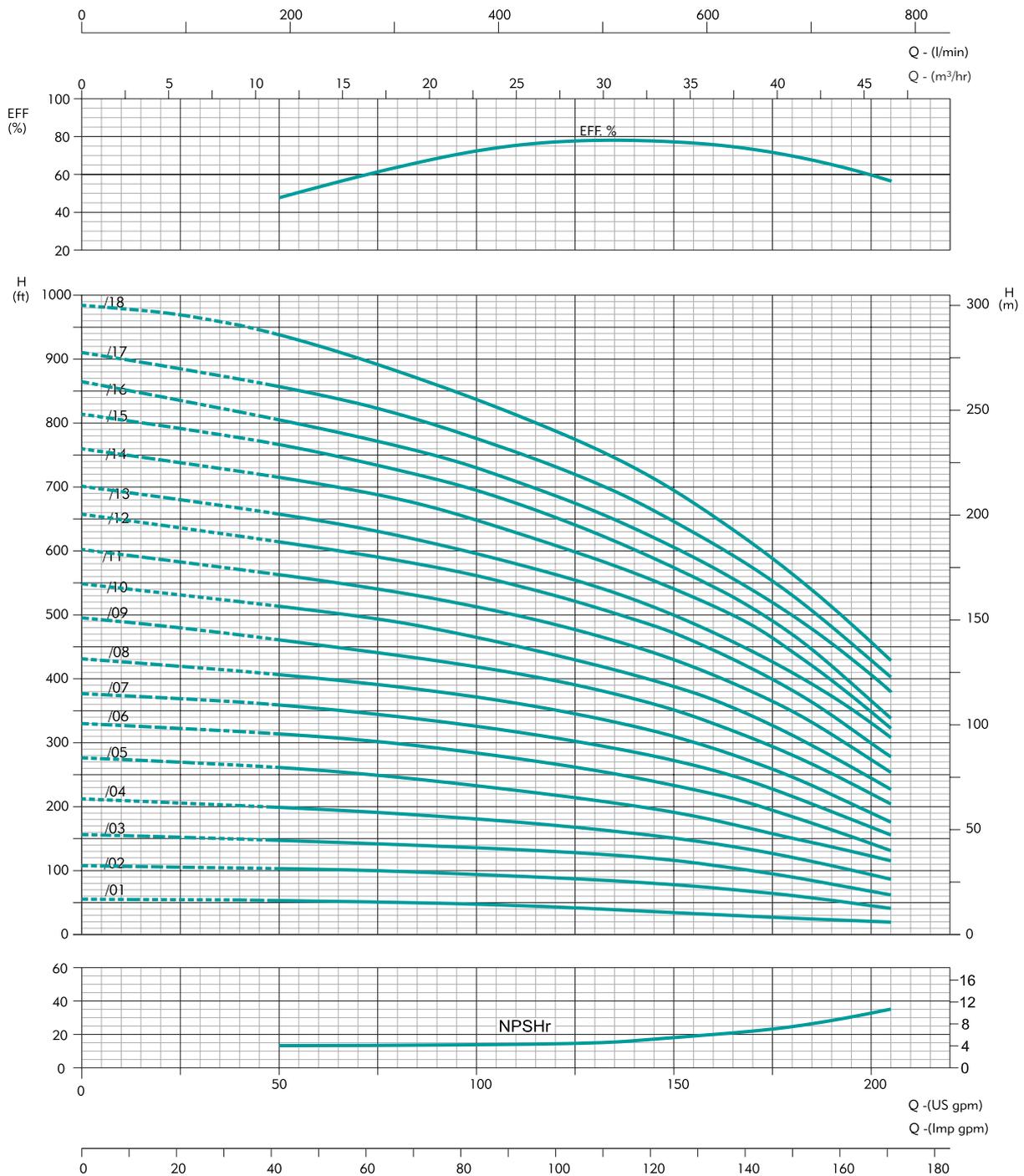
PERFORMANCE CURVES

TS / TN / TL SERIES > 6"

Model : **TS150-150 (30m³/hr)**

Outlet Size : **3" NPT**

3450 rpm



Curve tolerance according to ISO : 9906, Annex - A, Grade-3B.

PERFORMANCE DATA

TS / TN / TL SERIES > 6"

Model : **TS150-150 (30m³/hr)**

Outlet Size : **3" NPT**

3450 rpm

Pump Model*	Power		m ³ /hr USGPM	0	11.36	22.71	34.07	45
	kW	HP		0	50	100	150	200
TS150-150/01-4	1.5	2	Total Dynamic Head in Meter	17	15	15	12	8
TS150-150/02	3	4		33	31	30	24	14
TS150-150/03	4	5.5		48	45	42	36	18
TS150-150/04	5.5	7.5		65	61	55	46	29
TS150-150/05	7.5	10		84	80	71	58	38
TS150-150/06	9.3/11	12.5/15		101	95	87	71	44
TS150-150/07	9.3/11	12.5/15		114	110	99	83	52
TS150-150/08	11	15		131	124	114	95	58
TS150-150/09	13/15	17.5/20		151	140	128	107	68
TS150-150/10	15	20		168	157	142	119	76
TS150-150/11	15	20		183	172	155	131	83
TS150-150/12	18.5	25		200	187	171	143	91
TS150-150/13	18.5	25		213	204	184	155	102
TS150-150/14	18.5	25		232	218	198	165	107
TS150-150/15	22	30		248	233	212	175	111
TS150-150/16	22	30		263	245	223	184	124
TS150-150/17	22	30		278	261	236	197	132
TS150-150/18	26	35		299	287	255	212	138

* For AISI 316 replace TS with TN : Performance Data remains same.
 * For AISI 904L replace TS with TL : 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.



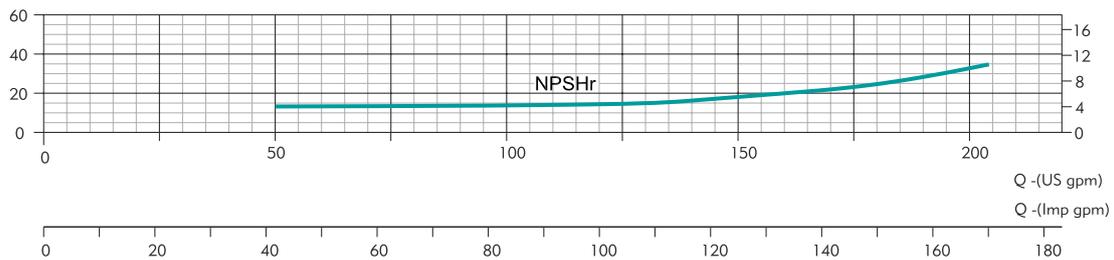
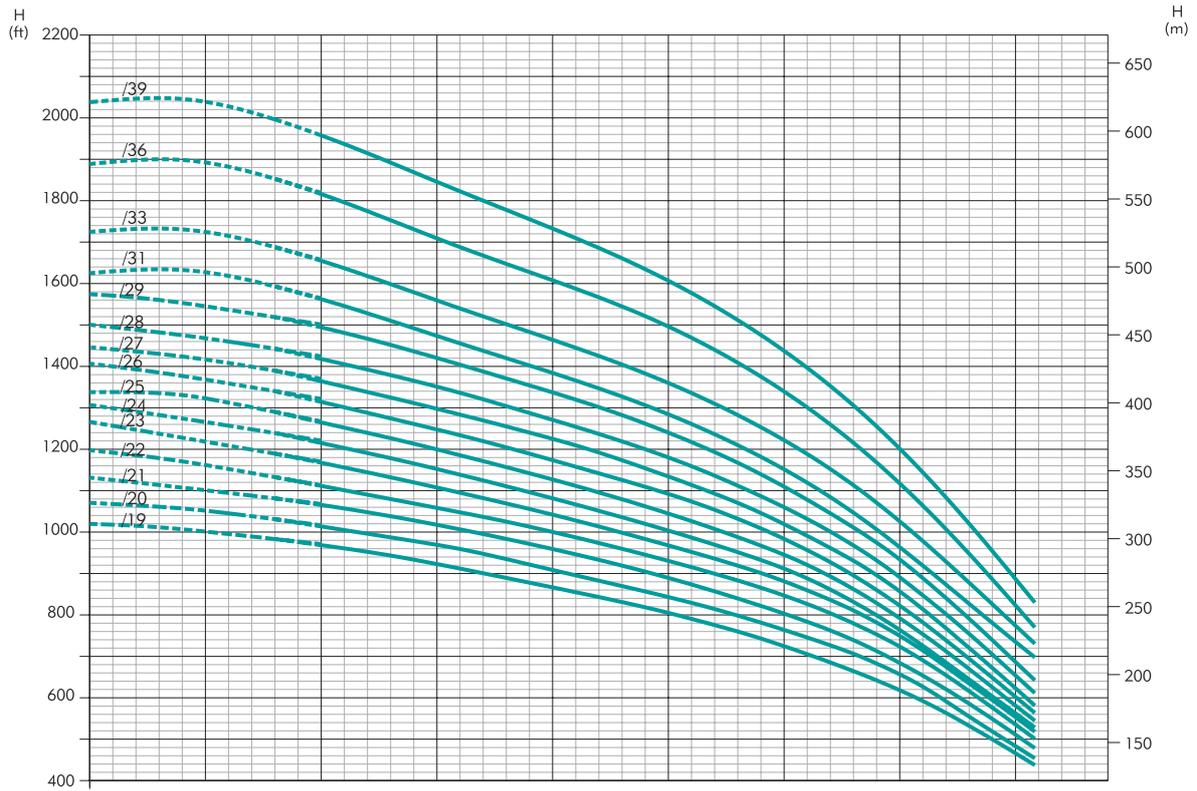
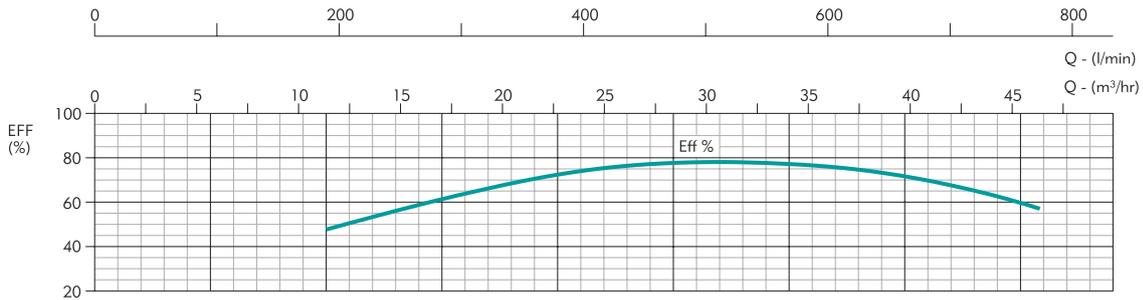
PERFORMANCE CURVES

TS / TN / TL SERIES > 6"

Model : **TS150-150 (30m³/hr)**

Outlet Size : **3" NPT**

3450 rpm



Curve tolerance according to ISO : 9906, Annex - A, Grade-3B.

PERFORMANCE DATA

TS / TN / TL SERIES > 6"

Model : **TS150-150 (30m³/hr)**

Outlet Size : **3" NPT**

3450 rpm

Pump Model*	Power		m ³ /hr USGPM	0	11.36	22.71	34.07	45
	kW	HP		0	50	100	150	200
TS150-150/19	30	40	Total Dynamic Head in Meter	309	295	265	220	143
TS150-150/20	30	40		326	308	277	233	147
TS150-150/21	30	40		345	325	293	244	156
TS150-150/22	30	40		365	339	305	258	165
TS150-150/23	30	40		386	356	318	270	168
TS150-150/24	37	50		397	369	331	278	171
TS150-150/25	37	50		408	386	343	289	178
TS150-150/26	37	50		428	401	358	301	183
TS150-150/27	37	50		440	418	373	309	189
TS150-150/28	37	50		457	432	389	326	203
TS150-150/29	45	60		481	457	407	338	210
TS150-150/31	45	60		495	479	421	351	221
TS150-150/33	45	60		526	505	448	372	236
TS150-150/36-8	55	75		576	555	490	410	251
TS150-150/39-8	55	75		623	596	527	436	268

* For AISI 316 replace TS with TN : Performance Data remains same.
 * For AISI 904L replace TS with TL : 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.



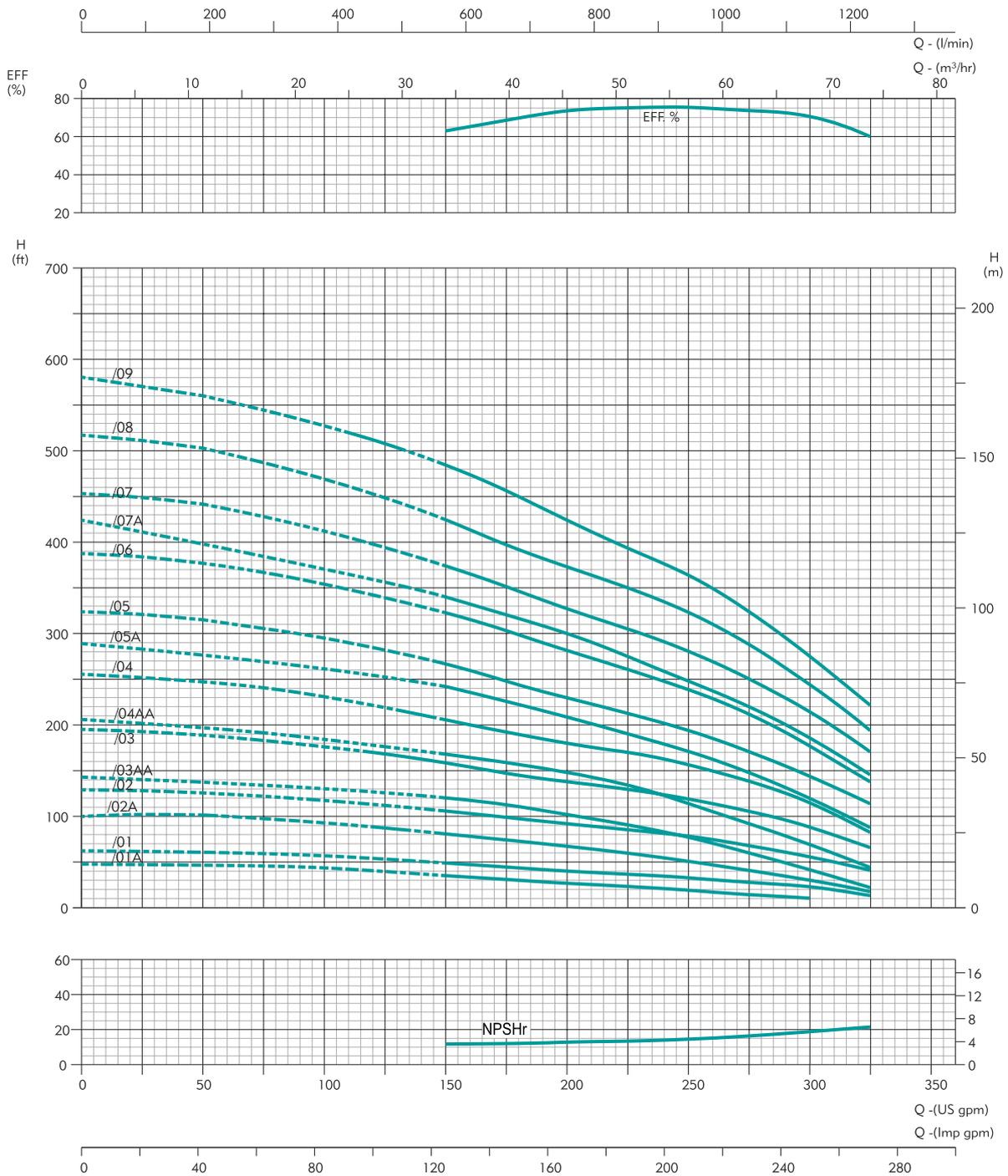
PERFORMANCE CURVES

TS / TN / TL SERIES > 6"

Model : **TS150-240 (48m³/hr)**

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

3450 rpm



Curve tolerance according to ISO : 9906, Annex - A, Grade-3B.

PERFORMANCE DATA

TS / TN / TL SERIES > 6"

Model : **TS150-240 (48m³/hr)**

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

3450 rpm

Pump Model*	Power		m ³ /hr USGPM	0	34	45.42	68.13	73.81
	kW	HP		0	150	200	300	325
TS150-240/01A-4	2.2	3	Total Dynamic Head in Meter	15	13	9	3	-
TS150-240/01-4	3	4		16	15	12	7	5
TS150-240/02A-4	4/3.5	5.5/5		30	24	21	9	5
TS150-240/02-4	5.5	7.5		38	32	27	17	12
TS150-240/03AA-4	5.5	7.5		44	37	31	13	7
TS150-240/03	7.5	10		60	49	43	27	16
TS150-240/04AA	7.5	10		63	54	47	21	14
TS150-240/04	9.3/11	12.5/15		78	63	55	35	25
TS150-240/05A	11	15		88	74	64	37	27
TS150-240/05	13	17.5		98	81	71	44	35
TS150-240/06	15	20		119	99	85	55	42
TS150-240/07A	15	20		129	104	92	57	45
TS150-240/07	18.5	25		137	113	100	66	52
TS150-240/08	18.5	25		158	130	113	75	59
TS150-240/09	22	30		178	149	129	84	67

* For AISI 316 replace TS with TN : Performance Data remains same.
 * For AISI 904L replace TS with TL : Performance Data remains same.
 * A - One Impeller Trimmed
 * AA - Two Impeller Trimmed

Nett Weights & Dimensions

Pump Model*	Dimensions in Inches			Nett Weight (lbs)
	D1	D2	H	
TS150-240/01A-4	6.0	-	15.87	19
TS150-240/01-4	6.0	-	15.87	19
TS150-240/02A-4	6.0	-	20.31	24
TS150-240/02-4	5.8	5.4	20.31	24
TS150-240/03AA-4	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.



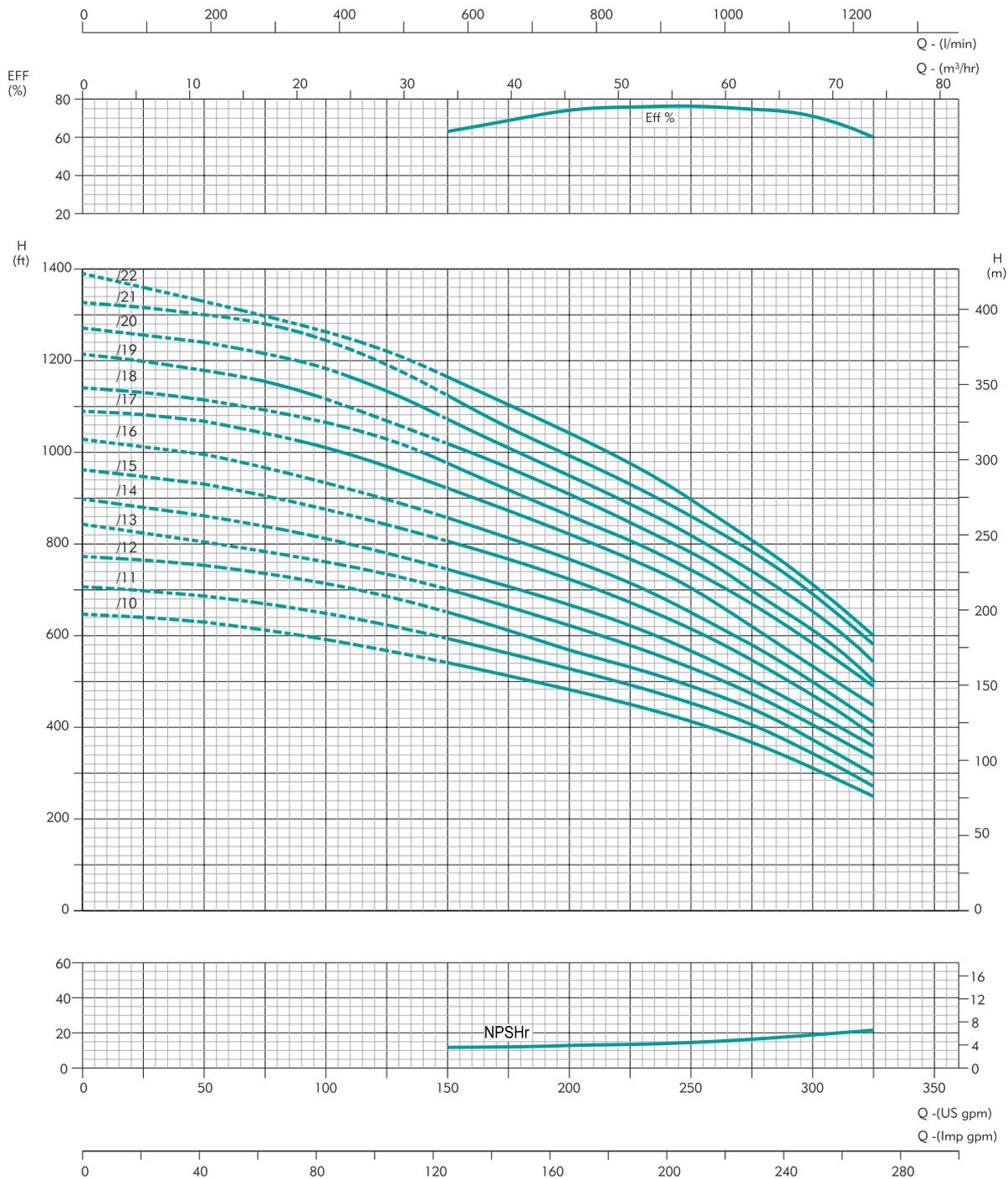
PERFORMANCE CURVES

TS / TN / TL SERIES > 6"

Model : **TS150-240 (48m³/hr)**

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

3450 rpm



Curve tolerance according to ISO : 9906, Annex - A, Grade-3B.

PERFORMANCE DATA

TS / TN / TL SERIES > 6"

Model : **TS150-240 (48m³/hr)**

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

3450 rpm

Pump Model*	Power		m ³ /hr USGPM	0	34	45.42	68.13	73.81
	kW	HP		0	150	200	300	325
TS150-240/10	22	30	Total Dynamic Head in Meter	195	165	145	94	76
TS150-240/11	26	35		215	181	159	104	82
TS150-240/12	30	40		236	198	175	100	90
TS150-240/13	30	40		257	213	191	123	99
TS150-240/14	37	50		275	227	204	134	109
TS150-240/15	37	50		293	245	220	144	115
TS150-240/16	37	50		312	262	235	154	125
TS150-240/17	37	50		334	282	251	165	138
TS150-240/18	45	60		347	298	264	177	142
TS150-240/19	45	60		369	311	277	186	159
TS150-240/20	45	60		390	328	288	200	166
TS150-240/21-8	55	75		404	342	304	210	178
TS150-240/22-8	55	75		424	355	318	218	183

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

* For AISI 904L replace TS with TL : 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.



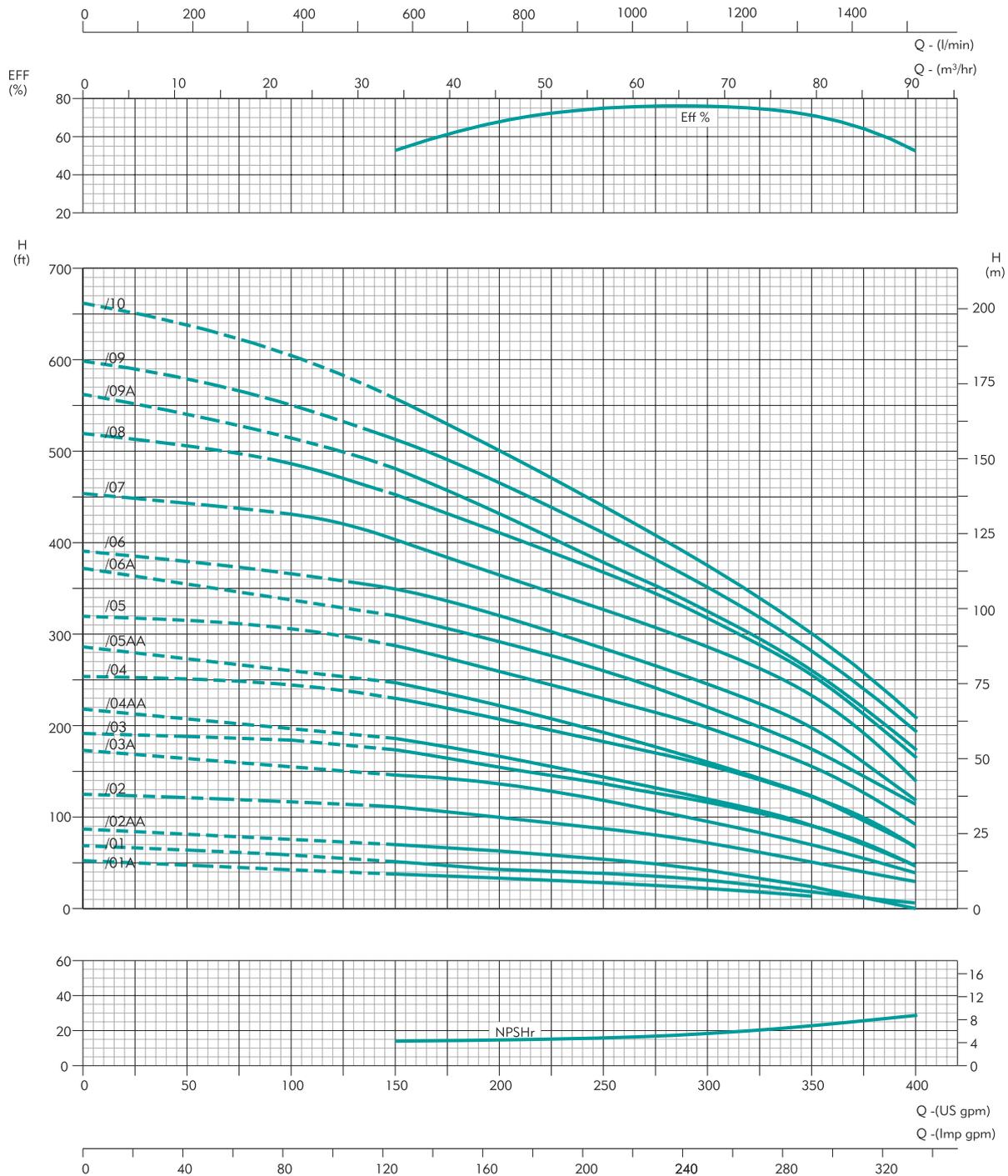
PERFORMANCE CURVES

TS / TN / TL SERIES > 6"

Model : **TS150-300 (60m³/hr)**

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

3450 rpm



Curve tolerance according to ISO : 9906, Annex - A, Grade-3B.

PERFORMANCE DATA

TS / TN / TL SERIES > 6"

Model : **TS150-300 (60m³/hr)**

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

3450 rpm

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

* For AISI 316 replace TS with TN : Performance Data remains same.
 * For AISI 904L replace TS with TL : Performance Data remains same.
 * A - One Impeller Trimmed
 * AA - Two Impeller Trimmed

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.



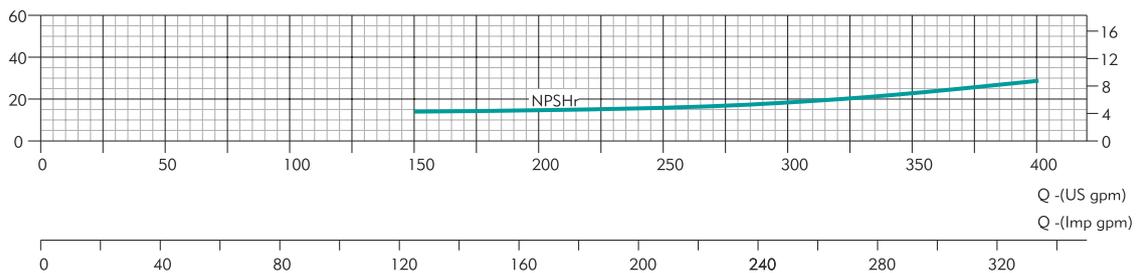
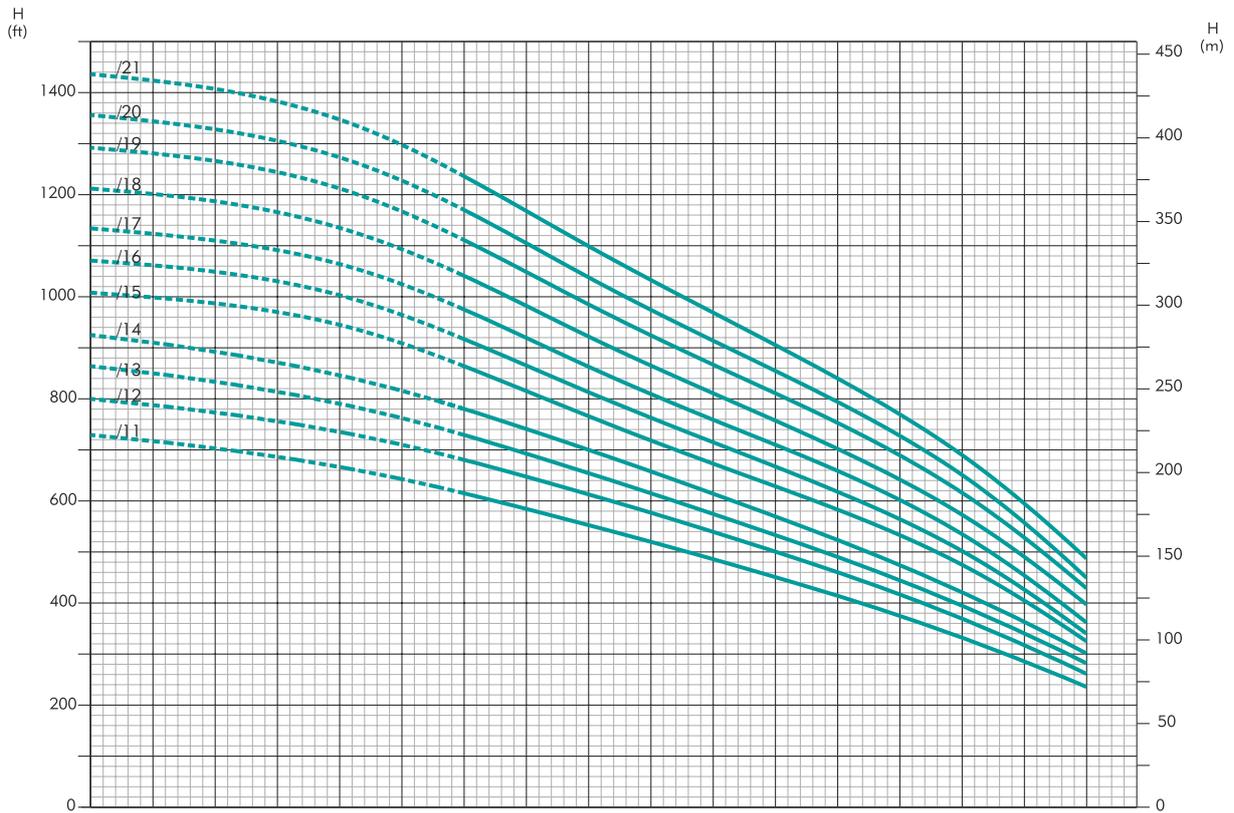
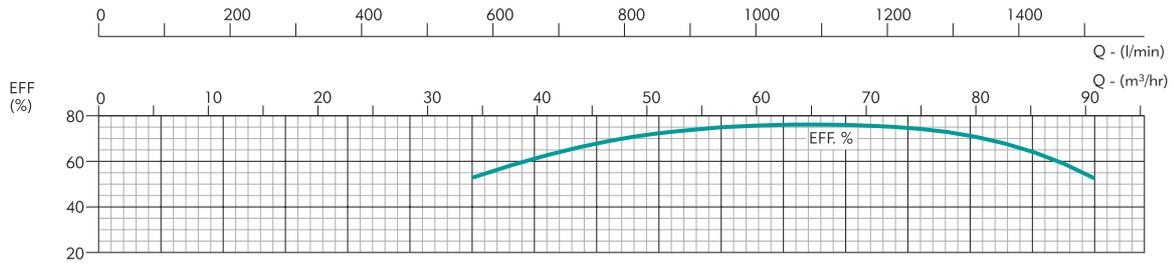
PERFORMANCE CURVES

TS / TN / TL SERIES > 6"

Model : **TS150-300 (60m³/hr)**

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

3450 rpm



Curve tolerance according to ISO : 9906, Annex - A, Grade-3B.

PERFORMANCE DATA

TS / TN / TL SERIES > 6"

Model : **TS150-300 (60m³/hr)**

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

3450 rpm

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

* For AISI 316 replace TS with TN : Performance Data remains same.
 * For AISI 904L replace TS with TL : 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.



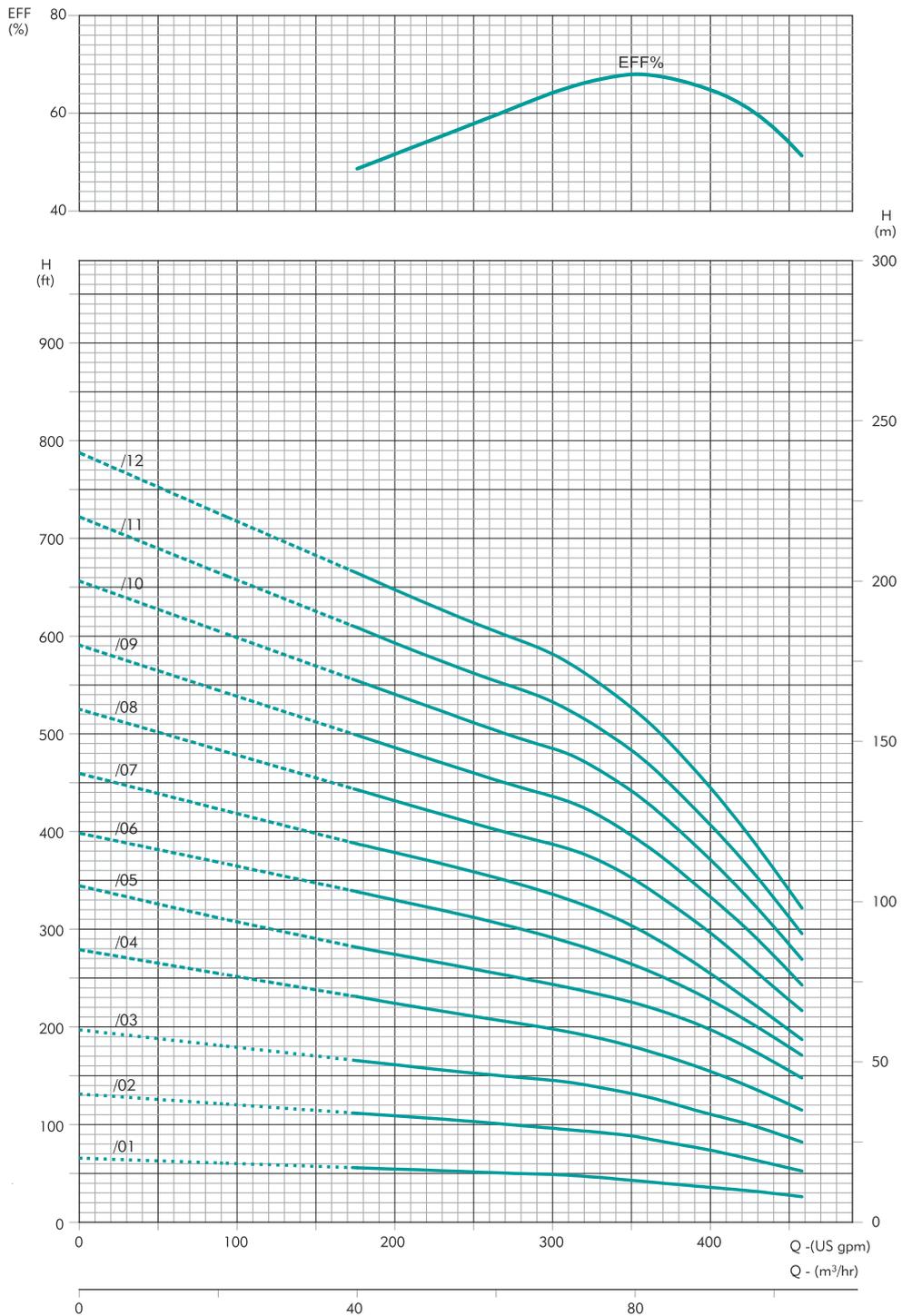
PERFORMANCE CURVES

TS / TN / TL SERIES > 6"

Model : **TS150-380** (76m³/hr)

Outlet Size : **4" NPT**

3450 rpm



Curve tolerance according to ISO : 9906, Annex - A, Grade-3B.

PERFORMANCE DATA

TS / TN / TL SERIES > 6"

Model : **TS150-380 (76m³/hr)**

Outlet Size : **4" NPT**

3450 rpm

Pump Model*	Power		m ³ /hr USGPM	0	54	64	70	80	87	90	96	100	104
	kW	HP		0	238	282	308	352	380	396	423	440	458
TS150-380/01	4	5.5	Total Dynamic Head in Meter	20	16	15	15	13	12	11	10	9	8
TS150-380/02	9.3	12.5		40	32	30	29	27	25	23	20	18	16
TS150-380/03	13	17.5		60	47	45	44	40	37	34	31	28	25
TS150-380/04	18.5	25		85	65	62	59	53	50	46	41	37	33
TS150-380/05	22	30		105	80	76	73	67	63	57	51	46	41
TS150-380/06	26	35		121	96	91	88	80	75	69	61	55	49
TS150-380/07	30	40		140	112	105	102	94	84	80	71	64	57
TS150-380/08	37	50		160	126	120	117	107	97	92	81	73	66
TS150-380/09	37	50		180	143	135	132	120	110	103	92	83	74
TS150-380/10	45	60		200	158	150	147	134	123	115	102	92	82
TS150-380/11	45	60		220	174	166	160	147	133	126	112	101	90
TS150-380/12	45	60		240	190	181	175	160	147	138	122	110	98

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

* For AISI 904L replace TS with TL : 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.



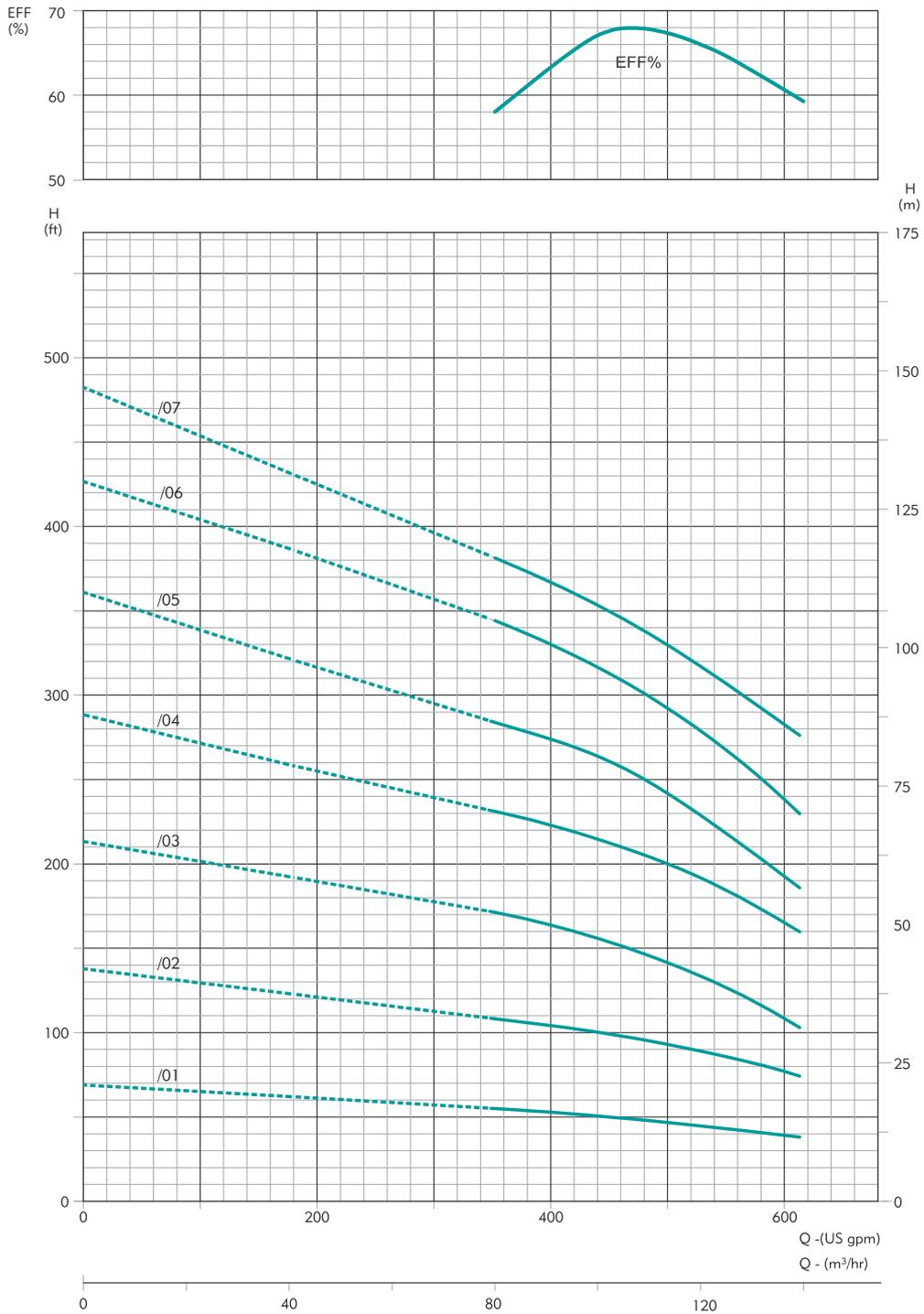
PERFORMANCE CURVES

TS / TN / TL SERIES > 6"

Model : **TS150-460 (92m³/hr)**

Outlet Size : **4" NPT**

3450 rpm



Curve tolerance according to ISO : 9906, Annex - A, Grade-3B.

PERFORMANCE DATA

TS / TN / TL SERIES > 6"

Model : **TS150-460 (92m³/hr)**

Outlet Size : **4" NPT**

3450 rpm

Pump Model*	Power		m ³ /hr USGPM	0	90	100	105.8	110	115	120	125	130
	kW	HP		0	396	440	460	484	506	528	550	572
TS150-460/01	7.5	10	Total Dynamic Head in Meter	21	16	15	15	15	15	14	13	12
TS150-460/02	13	17.5		42	32	31	30	29	28	27	26	23
TS150-460/03	18.5	25		65	50	47	46	44	43	40	38	36
TS150-460/04	26	35		88	67	65	64	62	60	58	56	54
TS150-460/05	30	40		110	84	80	78	76	73	69	66	56
TS150-460/06	37	50		130	101	96	94	91	88	85	82	70
TS150-460/07	45	60		147	111	108	105	102	100	97	94	85

* For AISI 316 replace TS with TN : Performance Data remains same.
 * For AISI 904L replace TS with TL : 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

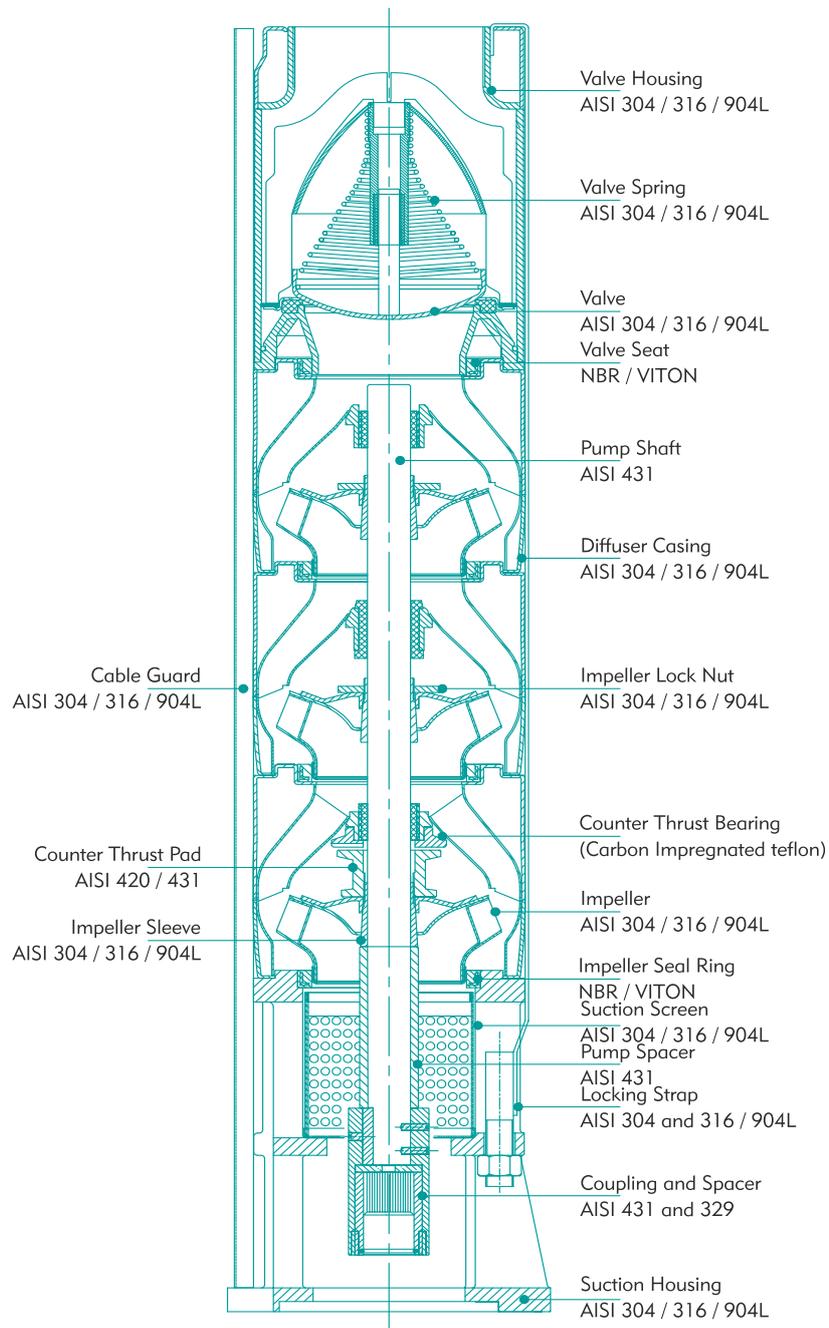
Pump Height(H) & Weight(lbs) are approximate.
 These pumps can also be supplied with BSP standard discharge outlet on request.



CONSTRUCTIONAL DATA

390 / 475 gpm (78 - 95 m³/hr)

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

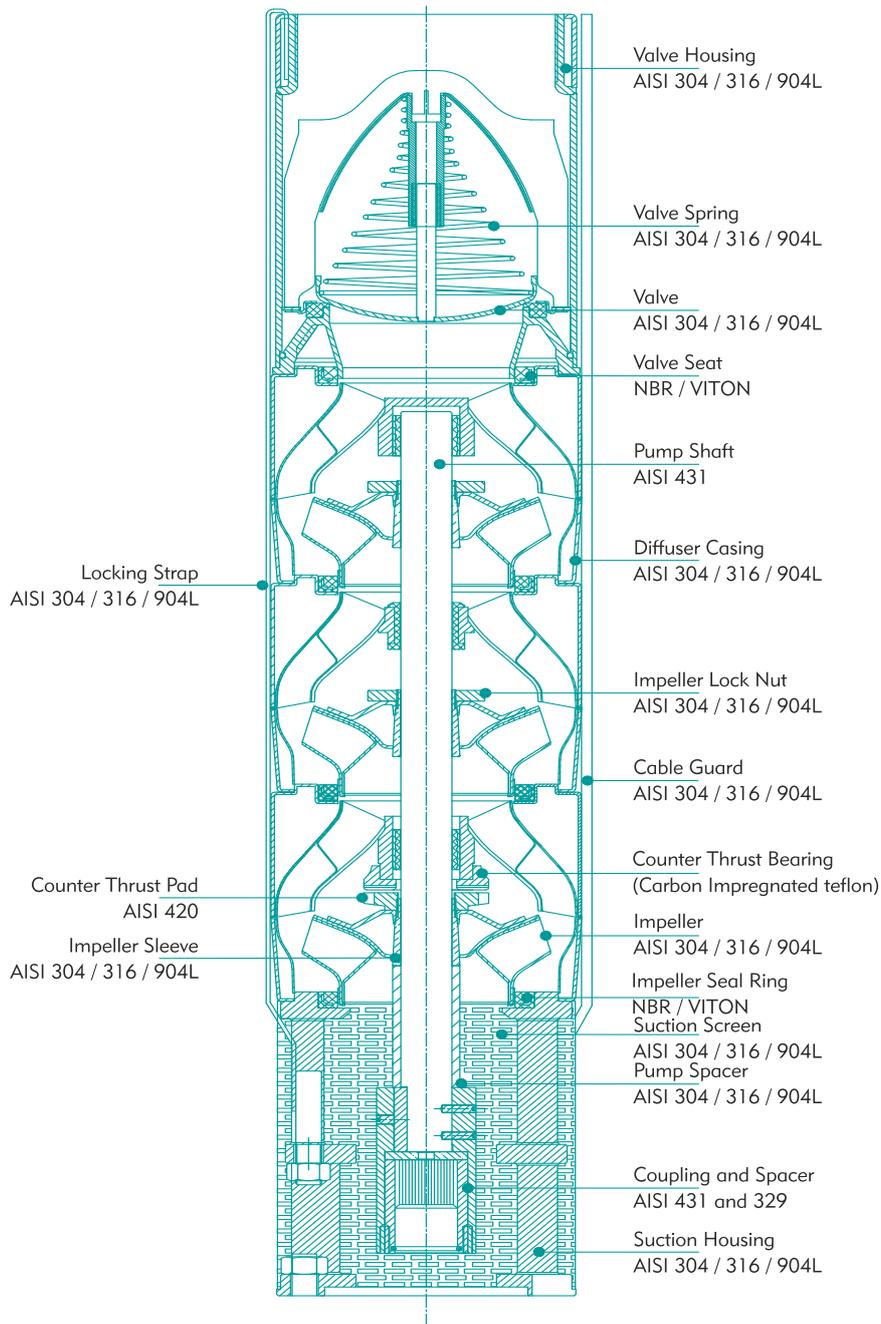


Pump Version - TS = AISI 304 Construction
 Pump Version - TN = AISI 316 Construction
 Pump version - TL = AISI 904L Construction
 NEMA mounting dimensions.

CONSTRUCTIONAL DATA

625, 800 & A75 gpm (125, 160 & 215 m³/hr)

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



Pump Version - TS = AISI 304 Construction

Pump Version - TN = AISI 316 Construction

Pump version - TL = AISI 904L Construction

NEMA mounting dimensions.

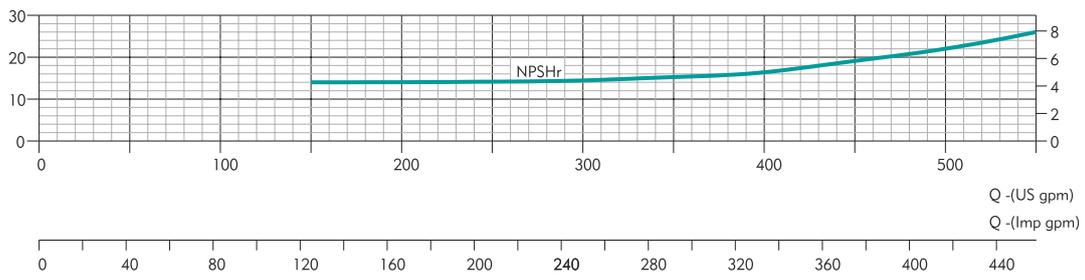
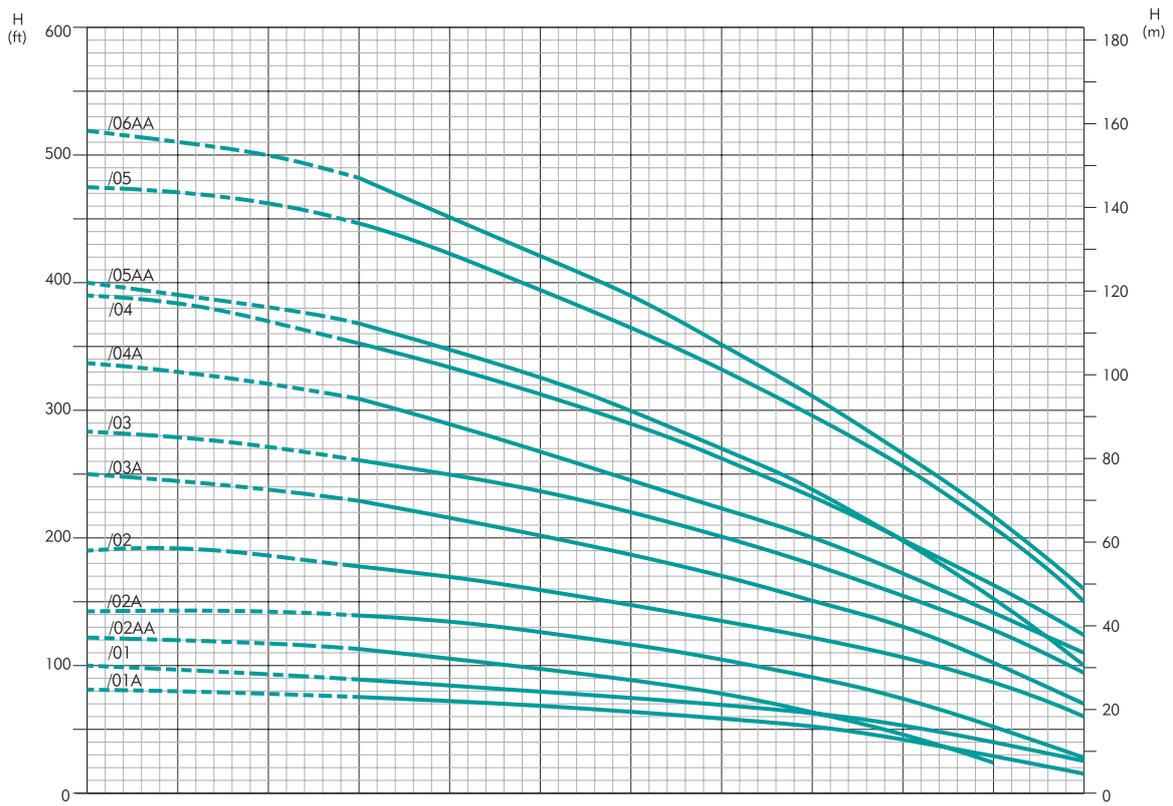
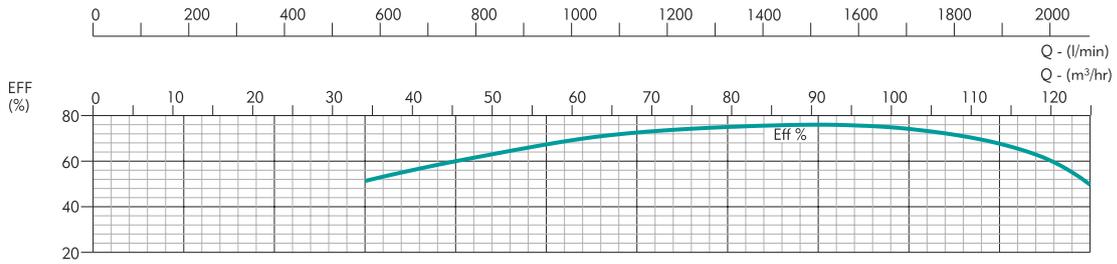
PERFORMANCE CURVES

TS / TN / TL SERIES > 8"

Model : **TS200-390 (78m³/hr)**

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

3450 rpm



Curve tolerance according to ISO : 9906, Annex - A, Grade-3B.

PERFORMANCE DATA

TS / TN / TL SERIES > 8"

Model : **TS200-390 (78m³/hr)**

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

3450 rpm

Pump Model*	Power		m ³ /hr USGPM	0	34	57	68.13	90.84	113.55
	kW	HP		0	150	250	300	400	500
TS200-390/01A-6	5.5	7.5	Total Dynamic Head in Meter	24	23	21	20	16	9
TS200-390/01-6	5.5	7.5		30	27	24	23	20	12
TS200-390/02AA-6	7.5	10		37	34	30	27	19	13
TS200-390/02A-6	11	15		43	42	38	35	27	16
TS200-390/02-6	11	15		58	54	49	45	37	27
TS200-390/03A-6	15	20		76	70	61	55	46	30
TS200-390/03-6	18.5	25		87	79	73	67	54	39
TS200-390/04A-6	18.5	25		103	94	81	75	61	43
TS200-390/04-6	22	30		119	107	95	88	70	49
TS200-390/05AA-6	22	30		122	112	100	91	73	55
TS200-390/05-6	30	40		144	137	121	112	91	64
TS200-390/06AA-6	30	40		158	147	128	119	95	66

* For AISI 316 replace TS with TN : Performance Data remains same.
 * For AISI 904L replace TS with TL : Performance Data remains same.
 * A - One Impeller Trimmed
 * AA - Two Impeller Trimmed

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
TS200-390/06AA-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.



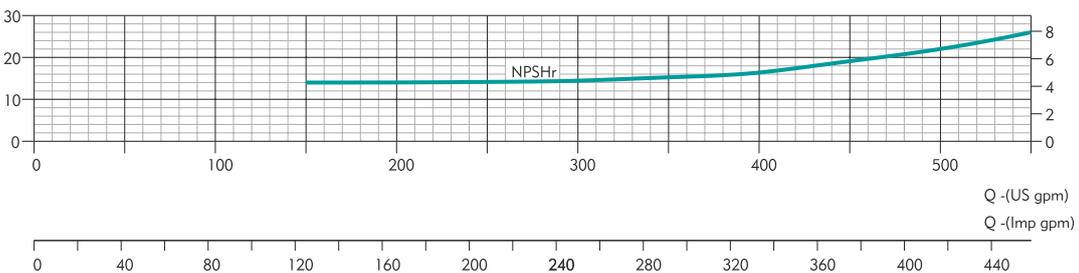
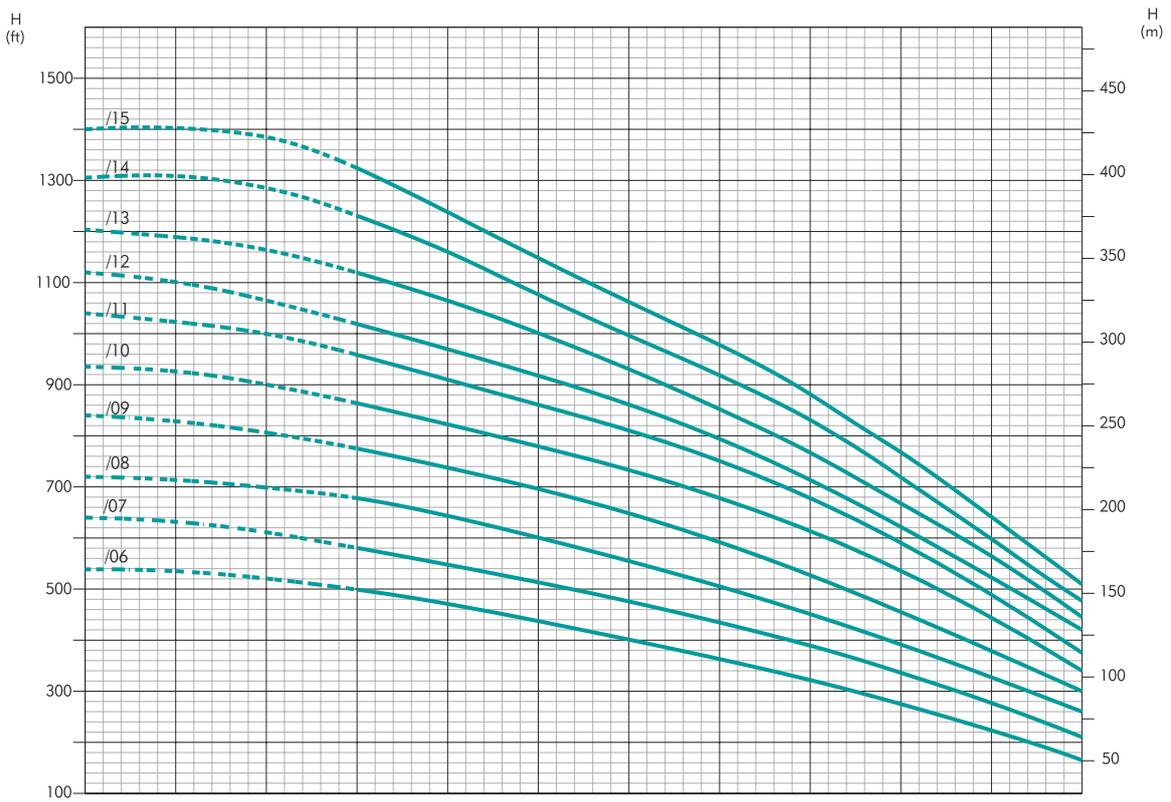
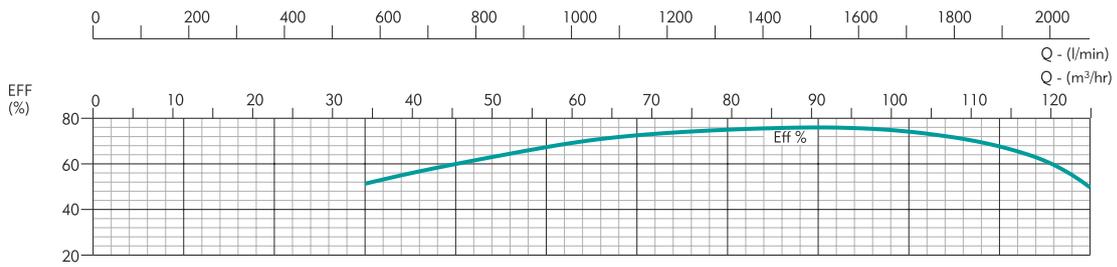
PERFORMANCE CURVES

TS / TN / TL SERIES > 8"

Model : **TS200-390 (78m³/hr)**

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

3450 rpm



PERFORMANCE DATA

TS / TN / TL SERIES > 8"

Model : **TS200-390 (78m³/hr)**

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

3450 rpm

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

* For AISI 316 replace TS with TN : Performance Data remains same.
 * For AISI 904L replace TS with TL : Performance Data remains same.
 * A - One Impeller Trimmed
 * AA - Two Impeller Trimmed

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.



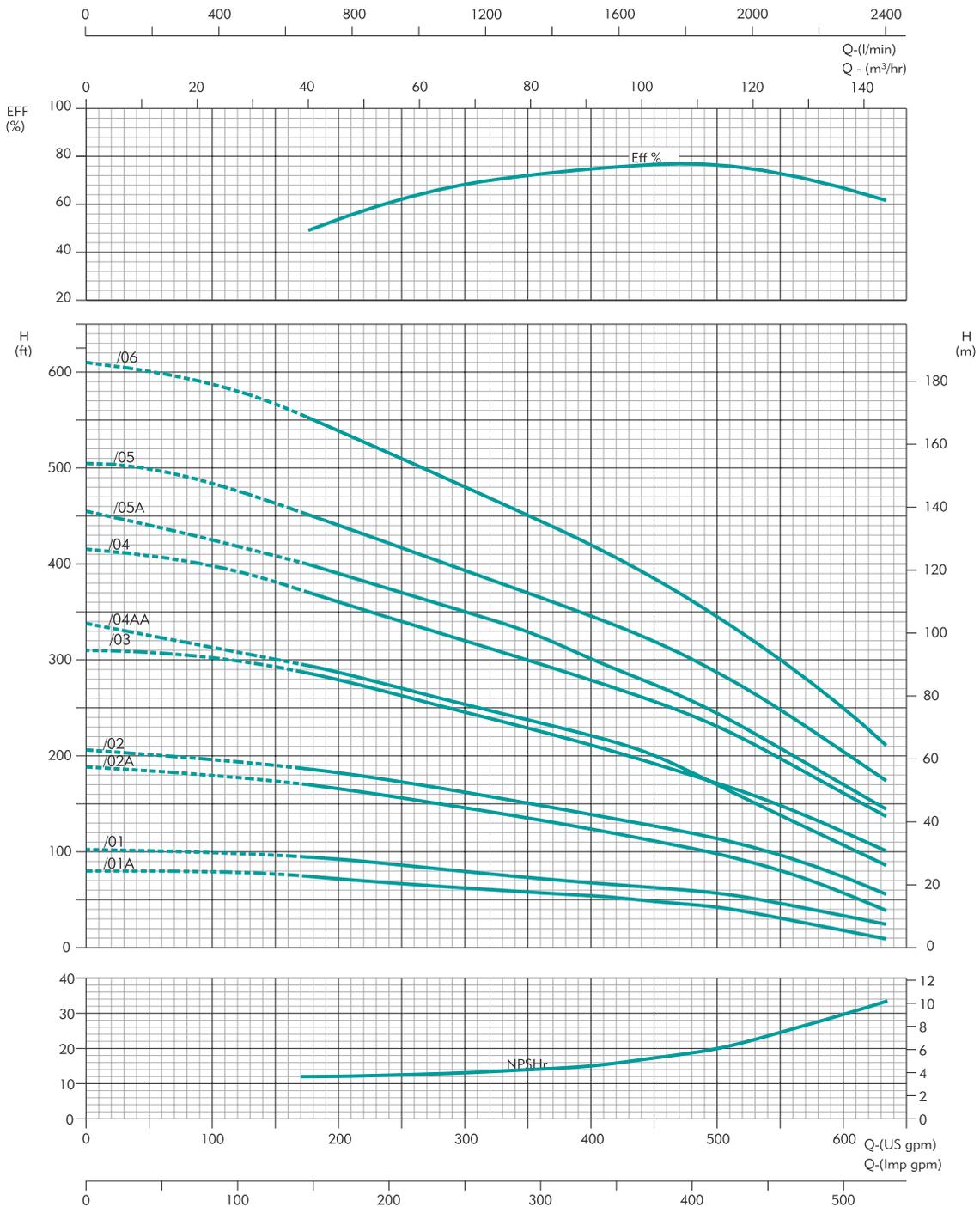
PERFORMANCE CURVES

TS / TN / TL SERIES > 8"

Model : **TS200-475 (95m³/hr)**

Outlet Size : **5" NPT**

3450 rpm



Curve tolerance according to ISO : 9906, Annex - A, Grade-3B.

PERFORMANCE DATA

TS / TN / TL SERIES > 8"

Model : **TS200-475 (95m³/hr)**

Outlet Size : **5" NPT**

3450 rpm

Pump Model*	Power		m ³ /hr USGPM	0	45.42	68.13	90.84	113.55	136
	kW	HP		0	200	300	400	500	600
TS200-475/01A-6	5.5	7.5	Total Dynamic Head in Meter	24	23	19	16	12	6
TS200-475/01-6	7.5	10		31	27	24	22	18	10
TS200-475/02A-6	13/15	17.5/20		57	51	45	39	30	19
TS200-475/02-6	13/15	17.5/20		63	55	50	42	35	23
TS200-475/03-6	22	30		94	85	76	65	37	37
TS200-475/04AA-6	22	30		103	88	77	68	52	33
TS200-475/04-6	30	40		127	110	98	85	69	50
TS200-475/05A-6	30	40		139	119	105	91	75	52
TS200-475/05-6	37	50		154	134	119	106	88	62
TS200-475/06-6	45	60		186	164	146	129	106	76

* For AISI 316 replace TS with TN : Performance Data remains same.
 * For AISI 904L replace TS with TL : Performance Data remains same.
 * A - One Impeller Trimmed
 * AA - Two Impeller Trimmed

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.



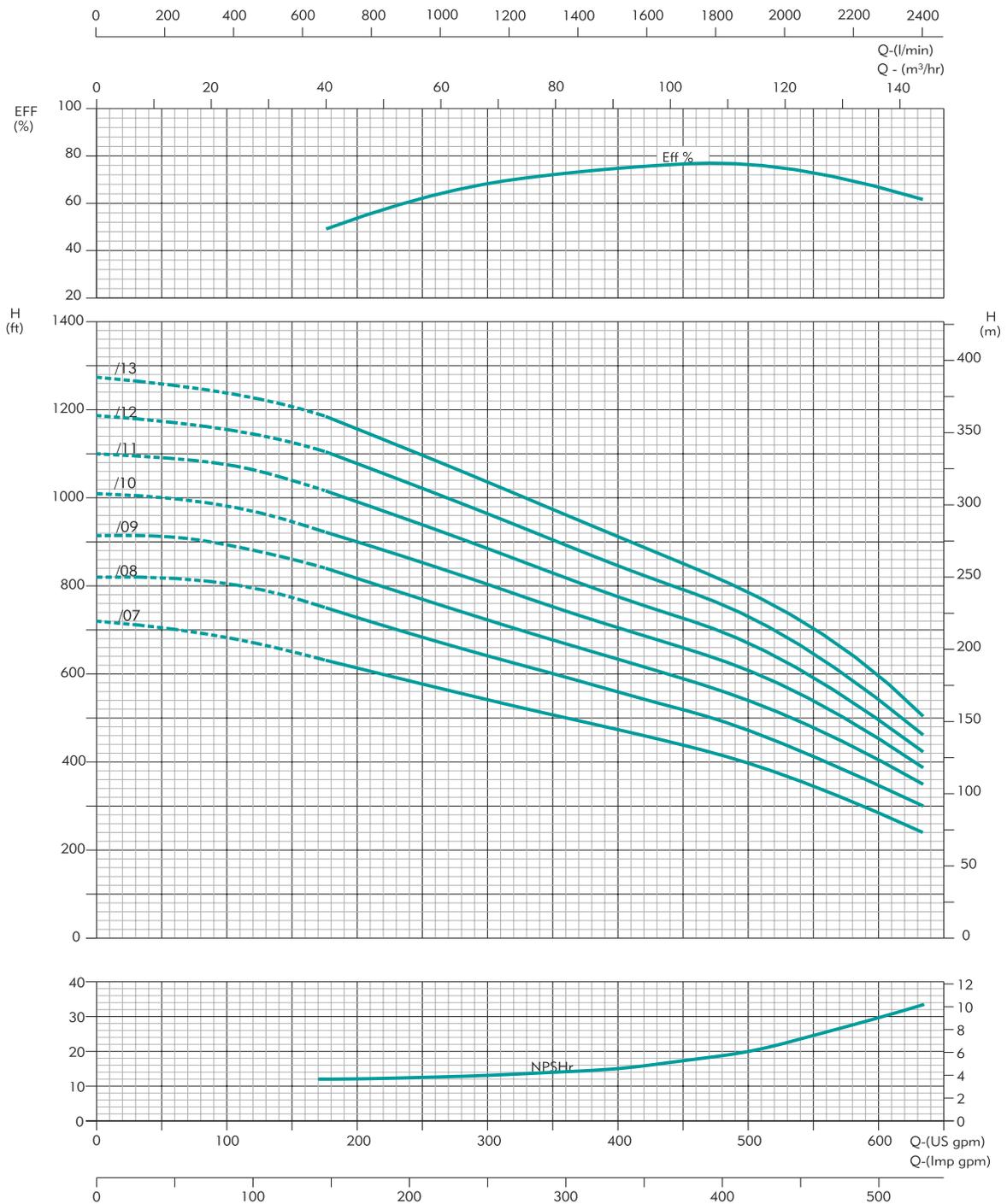
PERFORMANCE CURVES

TS / TN / TL SERIES > 8"

Model : **TS200-475 (95m³/hr)**

Outlet Size : **5" NPT**

3450 rpm



Curve tolerance according to ISO : 9906, Annex - A, Grade-3B.

PERFORMANCE DATA

TS / TN / TL SERIES > 8"

Model : **TS200-475 (95m³/hr)**

Outlet Size : **5" NPT**

3450 rpm

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

* For AISI 316 replace TS with TN : Performance Data remains same.
 * For AISI 904L replace TS with TL : Performance Data remains same.
 * A - One Impeller Trimmed
 * AA - Two Impeller Trimmed

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.



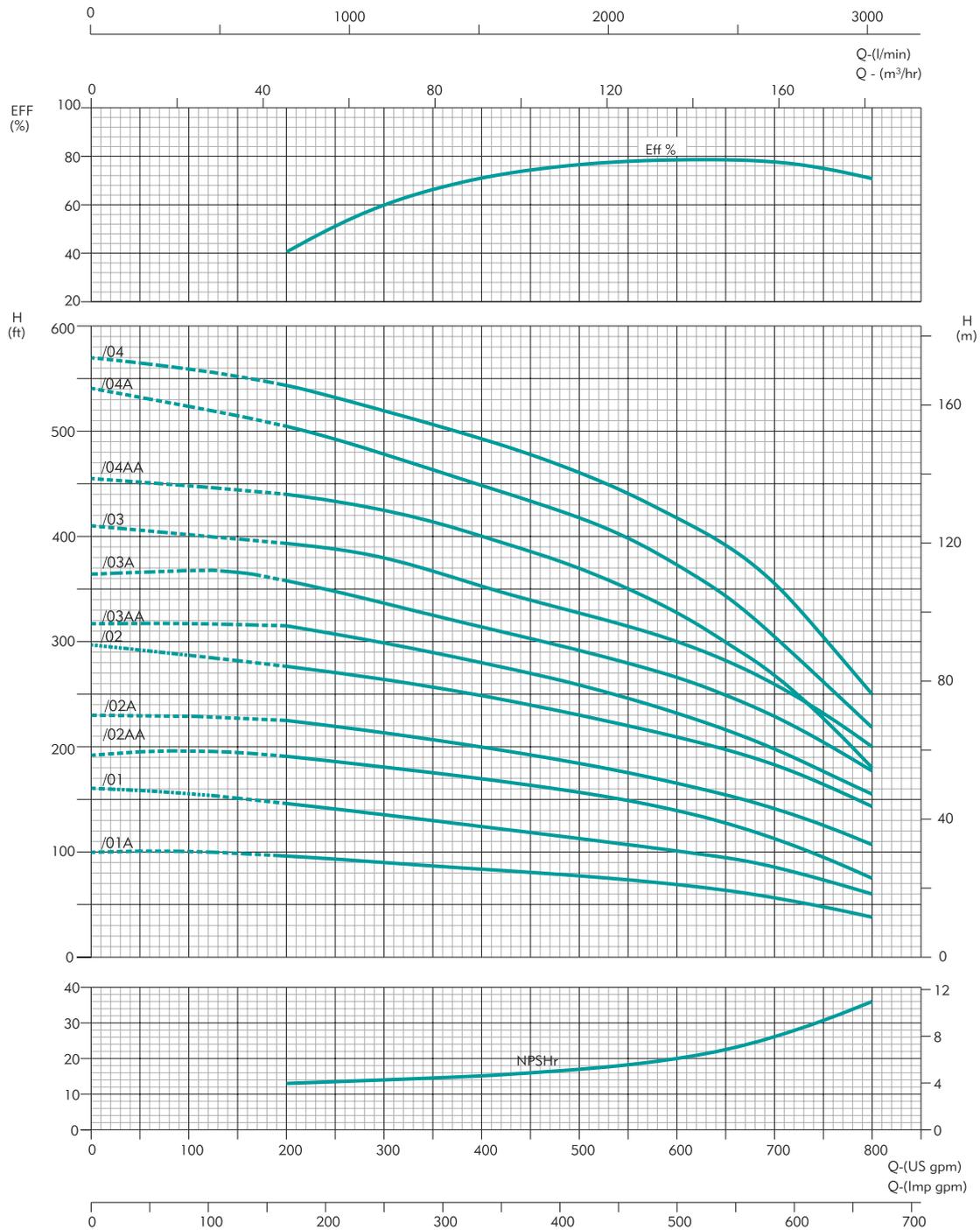
PERFORMANCE CURVES

TS / TN / TL SERIES > 10"

Model : **TS250-625 (125m³/hr)**

Outlet Size : **6" NPT**

3450 rpm



Curve tolerance according to ISO : 9906, Annex - A, Grade-3B.

PERFORMANCE DATA

TS / TN / TL SERIES > 10"

Model : **TS250-625 (125m³/hr)**

Outlet Size : **6" NPT**

3450 rpm

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

* For AISI 316 replace TS with TN : Performance Data remains same.
 * For AISI 904L replace TS with TL : Performance Data remains same.
 * A - One Impeller Trimmed
 * AA - Two Impeller Trimmed

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.



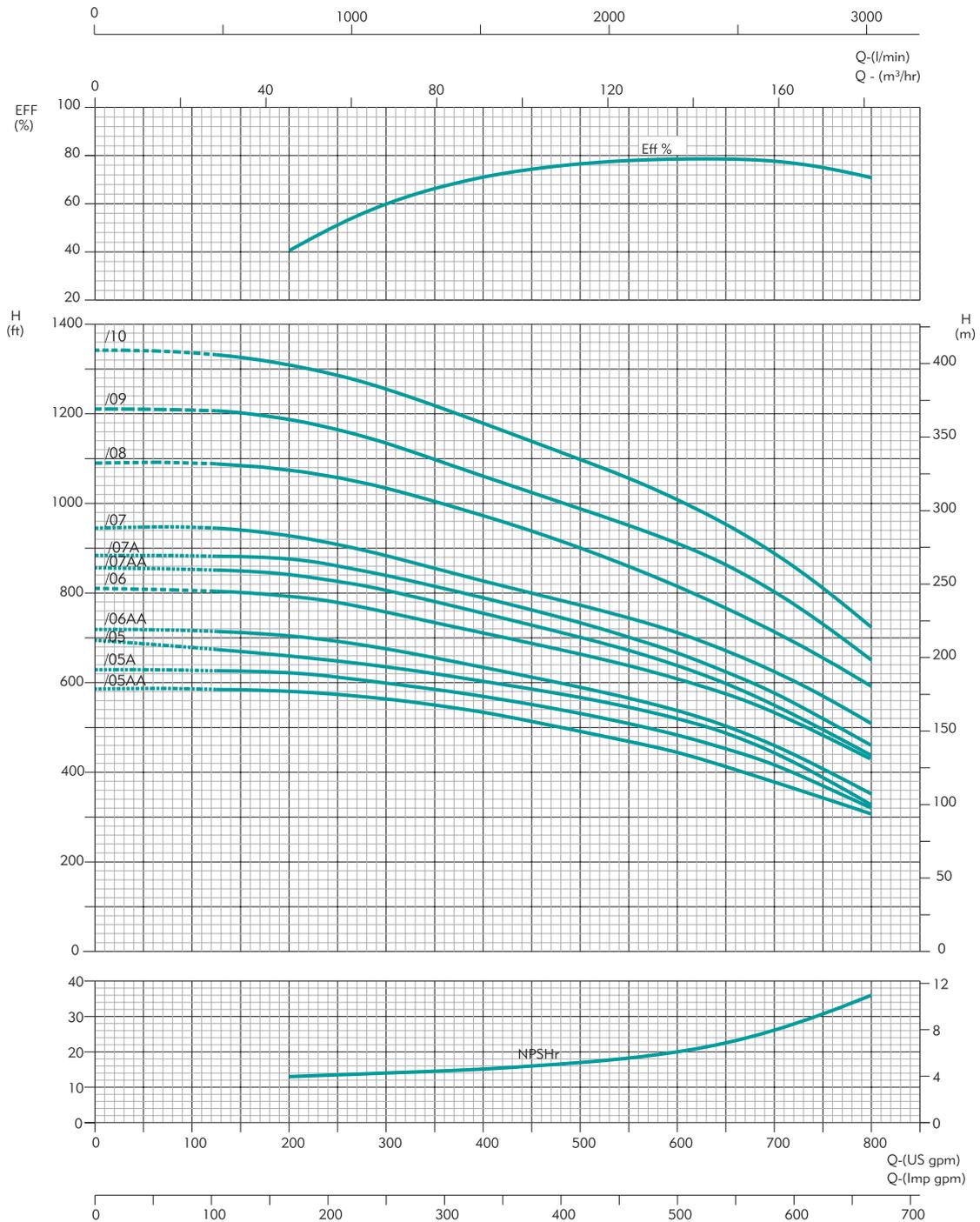
PERFORMANCE CURVES

TS / TN / TL SERIES > 10"

Model : **TS250-625 (125m³/hr)**

Outlet Size : **6" NPT**

3450 rpm



Curve tolerance according to ISO : 9906, Annex - A, Grade-3B.

PERFORMANCE DATA

TS / TN / TL SERIES > 10"

Model : **TS250-625 (125m³/hr)**

Outlet Size : **6" NPT**

3450 rpm

Pump Model*	Power		m ³ /hr USGPM	0	45.42	90.84	136	159	181.68
	kW	HP		0	200	400	600	700	800
TS250-625/05AA-8	75	100	Total Dynamic Head in Meter	179	178	163	136	116	94
TS250-625/05A-8	75	100		192	191	174	148	128	98
TS250-625/05-8	75	100		212	201	184	158	135	99
TS250-625/06AA-8	75	100		219	214	193	164	140	107
TS250-625/06-8	93	125		247	242	216	186	163	131
TS250-625/07AA-8	93	125		262	256	230	194	168	134
TS250-625/07A	110	150		269	269	241	204	177	140
TS250-625/07	110	150		288	282	252	216	190	155
TS250-625/08	132	175		332	327	296	248	217	181
TS250-625/09	132	175		369	361	323	279	246	200
TS250-625/10	150	200		409	399	360	307	271	221

* For AISI 316 replace TS with TN : Performance Data remains same.
 * For AISI 904L replace TS with TL : Performance Data remains same.
 * A - One Impeller Trimmed
 * AA - Two Impeller Trimmed

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.



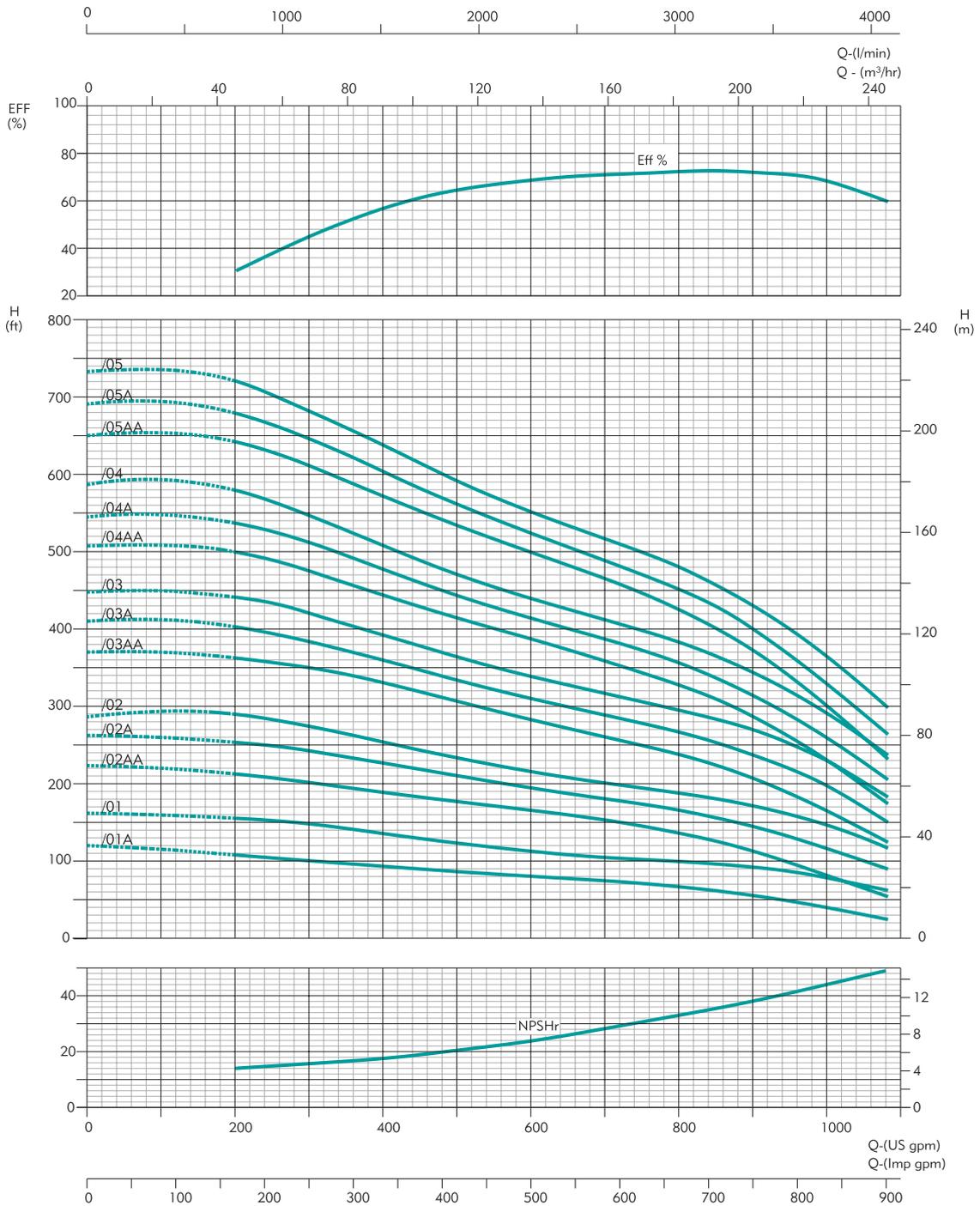
PERFORMANCE CURVES

TS / TN / TL SERIES > 10"

Model : **TS250-800 (160m³/hr)**

Outlet Size : **6" NPT**

3450 rpm



Curve tolerance according to ISO : 9906, Annex - A, Grade-3B.

PERFORMANCE DATA

TS / TN / TL SERIES > 10"

Model : **TS250-800 (160m³/hr)**

Outlet Size : **6" NPT**

3450 rpm

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

* For AISI 316 replace TS with TN : Performance Data remains same.
 * For AISI 904L replace TS with TL : Performance Data remains same.
 * A - One Impeller Trimmed
 * AA - Two Impeller Trimmed

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.



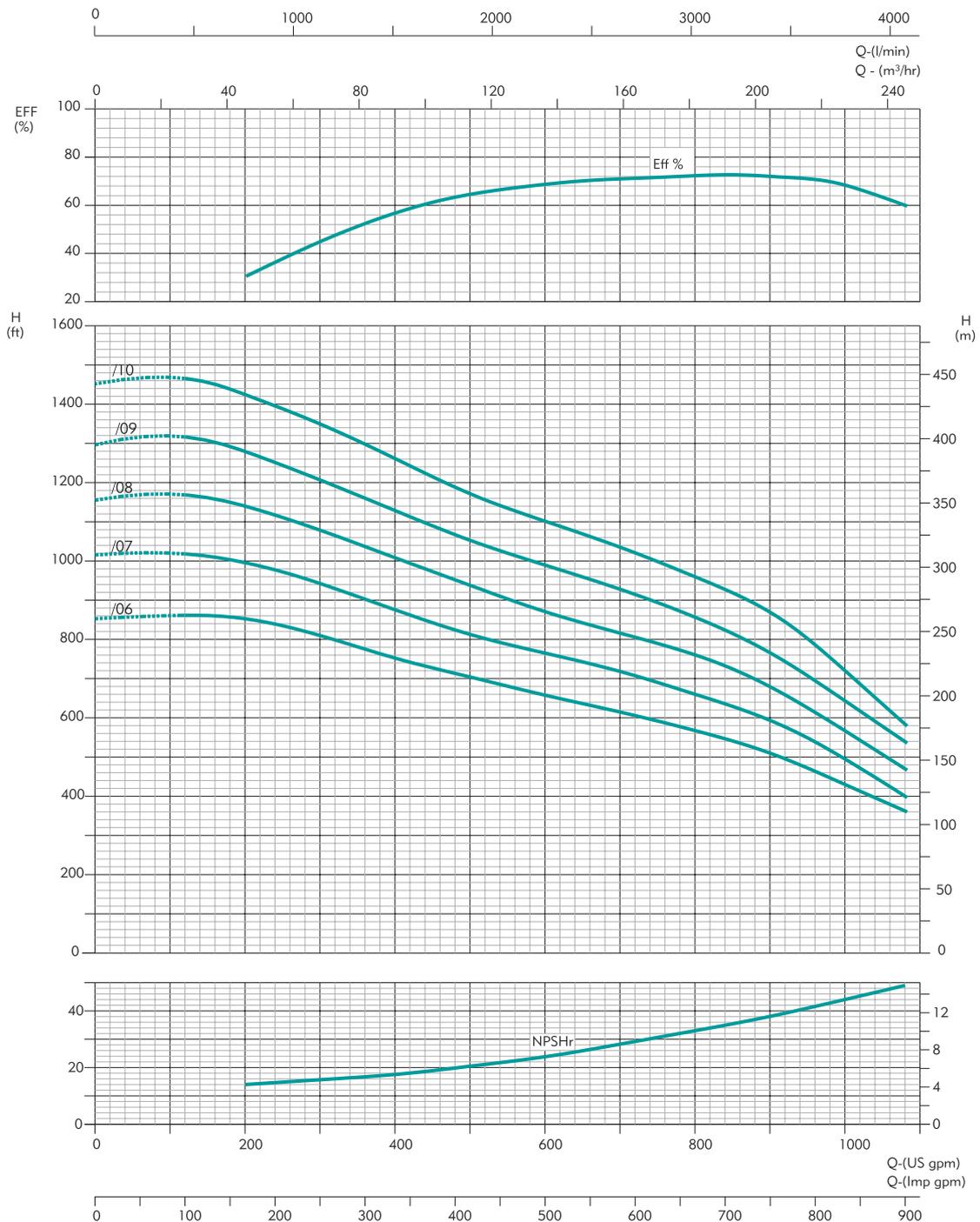
PERFORMANCE CURVES

TS / TN / TL SERIES > 10"

Model : **TS250-800 (160m³/hr)**

Outlet Size : **6" NPT**

3450 rpm



Curve tolerance according to ISO : 9906, Annex - A, Grade-3B.

PERFORMANCE DATA

TS / TN / TL SERIES > 10"

Model : **TS250-800 (160m³/hr)**

Outlet Size : **6" NPT**

3450 rpm

Pump Model*	Power		m ³ /hr USGPM	0	45.42	90.84	136	181.68	245.94
	kW	HP		0	200	400	600	800	1083
TS250-800/06	110	150	Total Dynamic Head in Meter	260	259	228	202	172	111
TS250-800/07	132	175		310	301	265	234	201	122
TS250-800/08	150	200		352	347	308	265	232	143
TS250-800/09	170	225		396	391	343	300	262	165
TS250-800/10	187	250		443	434	384	335	292	178

* For AISI 316 replace TS with TN : Performance Data remains same.
 * For AISI 904L replace TS with TL : Performance Data remains same.
 * A - One Impeller Trimmed
 * AA - Two Impeller Trimmed

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.



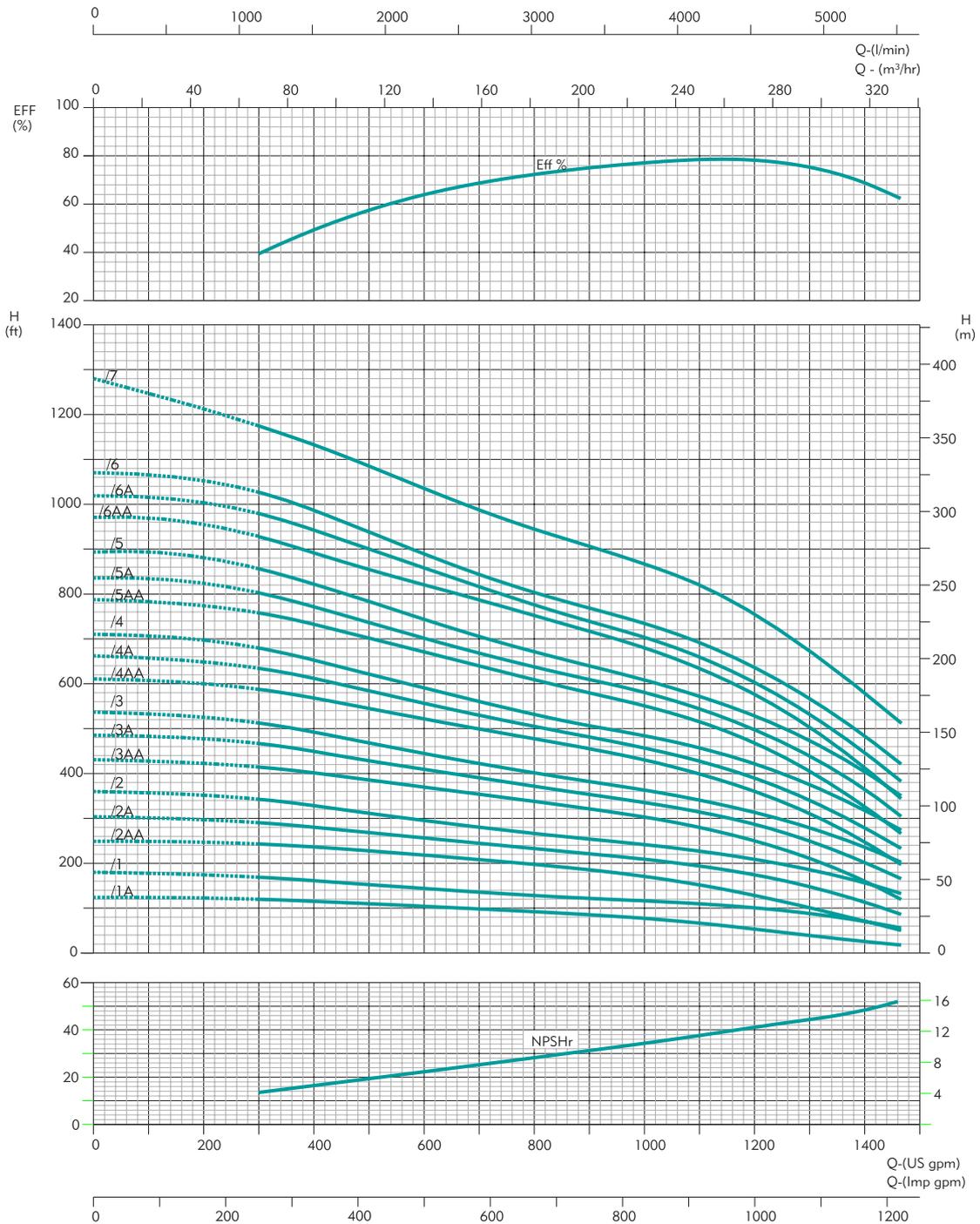
PERFORMANCE CURVES

TS / TN / TL SERIES > 10"

Model : **TS250-A75 (215m³/hr)**

Outlet Size : **6" NPT**

3450 rpm



Curve tolerance according to ISO : 9906, Annex - A, Grade-3B.

PERFORMANCE DATA

TS / TN / TL SERIES > 10"

Model : **TS250-A75 (215m³/hr)**

Outlet Size : **6" NPT**

3450 rpm

Pump Model*	Power		m ³ /hr USGPM	0	45.42	136	181.68	273	318
	kW	HP		0	200	600	800	1200	1400
TS250-A75/01A-6	22	30	Total Dynamic Head in Meter	37	36	32	27	16	8
TS250-A75/01-6	30	40		55	53	43	40	30	21
TS250-A75/02AA-8	45	60		76	76	68	61	40	21
TS250-A75/02A-8	55	75		92	91	79	71	53	34
TS250-A75/02-8	75	100		110	107	90	81	64	48
TS250-A75/03AA-8	75	100		131	128	113	103	76	48
TS250-A75/03A-8	93	125		148	146	125	113	87	61
TS250-A75/03-8	93	125		164	160	136	122	96	72
TS250-A75/04AA	110	150		186	183	158	145	110	76
TS250-A75/04A	110	150		201	198	169	154	119	85
TS250-A75/04	110	150		216	213	180	163	128	98
TS250-A75/05AA	130	175		240	236	204	186	146	101
TS250-A75/05A	130	175		255	251	215	194	152	111
TS250-A75/05	150	200		272	268	226	204	162	123
TS250-A75/06AA	170	225		296	291	250	230	175	126
TS250-A75/06A	187	250		311	307	262	236	184	136
TS250-A75/06	187	250		326	321	271	245	194	148
TS250-A75/07	220	300		390	370	316	287	230	175

* For AISI 316 replace TS with TN : Performance Data remains same.
 * For AISI 904L replace TS with TL : Performance Data remains same.
 * A - One Impeller Trimmed
 * AA - Two Impeller Trimmed

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.



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 /hr	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

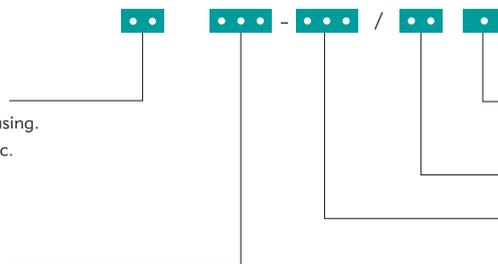


Model Designation ➤ Borehole Submersible Pumps

Versions

TP = AISI 304 - Pump shell,
Suction Inter-connector & Valve housing.
Impellers & Diffusers - Thermoplastic.

Pump Nominal Diameter (mm)
(**100** = 4")



Motor Nominal Diameter
(This digit will be applicable only when the pump is suitable for greater/lesser diameter motor.)

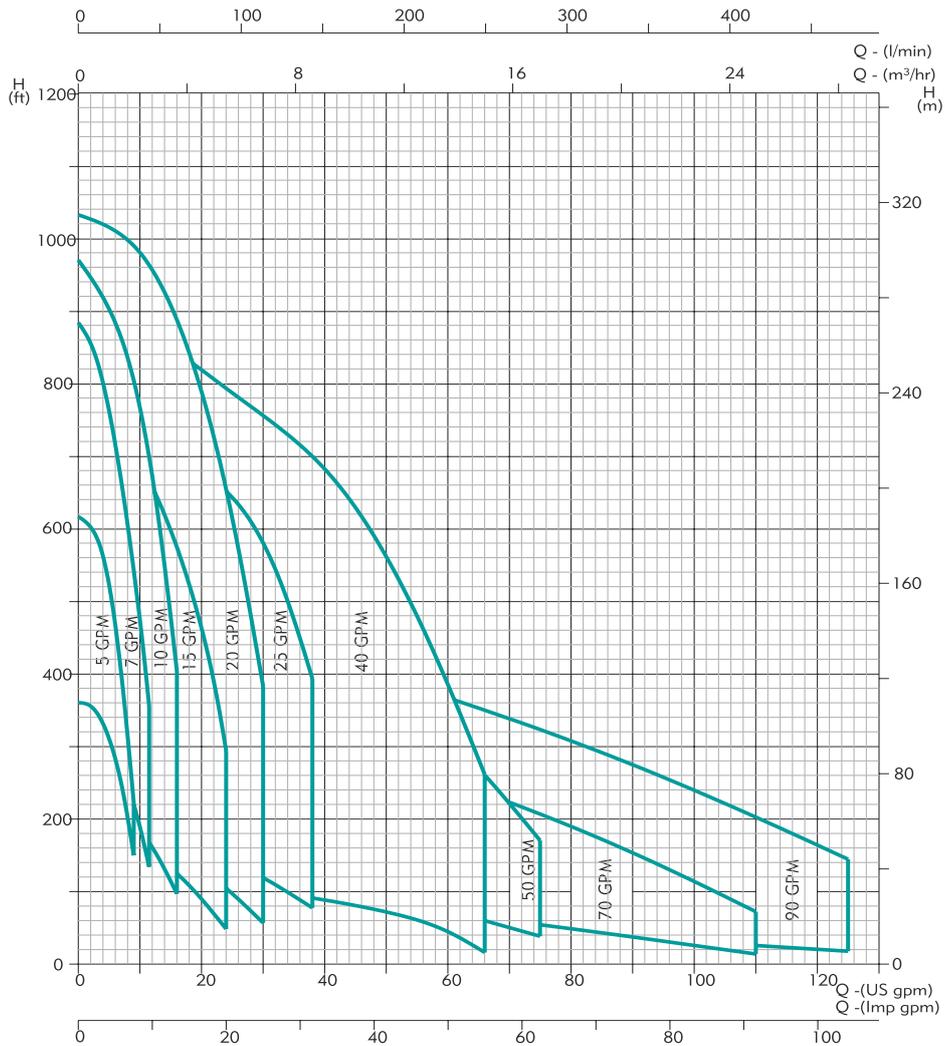
Number of Impellers

Nominal Flow in US gpm
(Actual Value to be mentioned.
10 = 10, **50** = 50, **70** = 70)

Pump	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



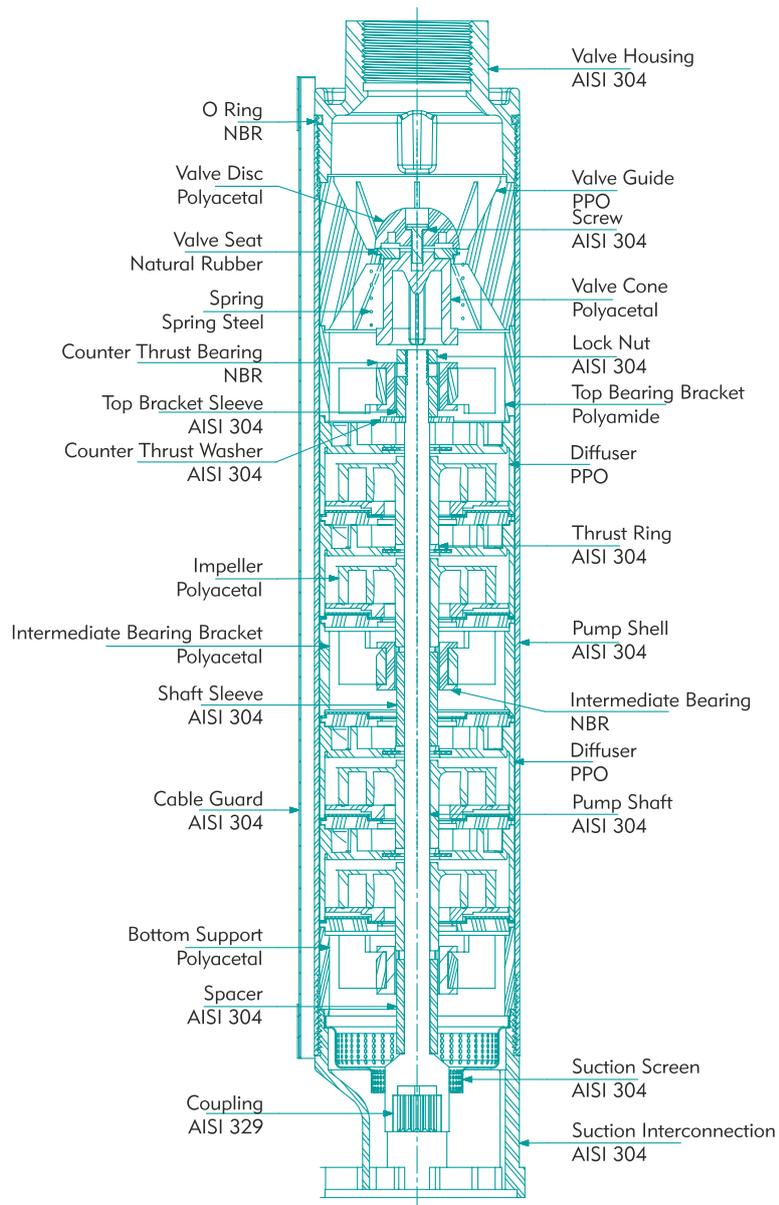
Performance Curve Conditions

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, Grade-3B.
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 (1 - 4 m³/hr)

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

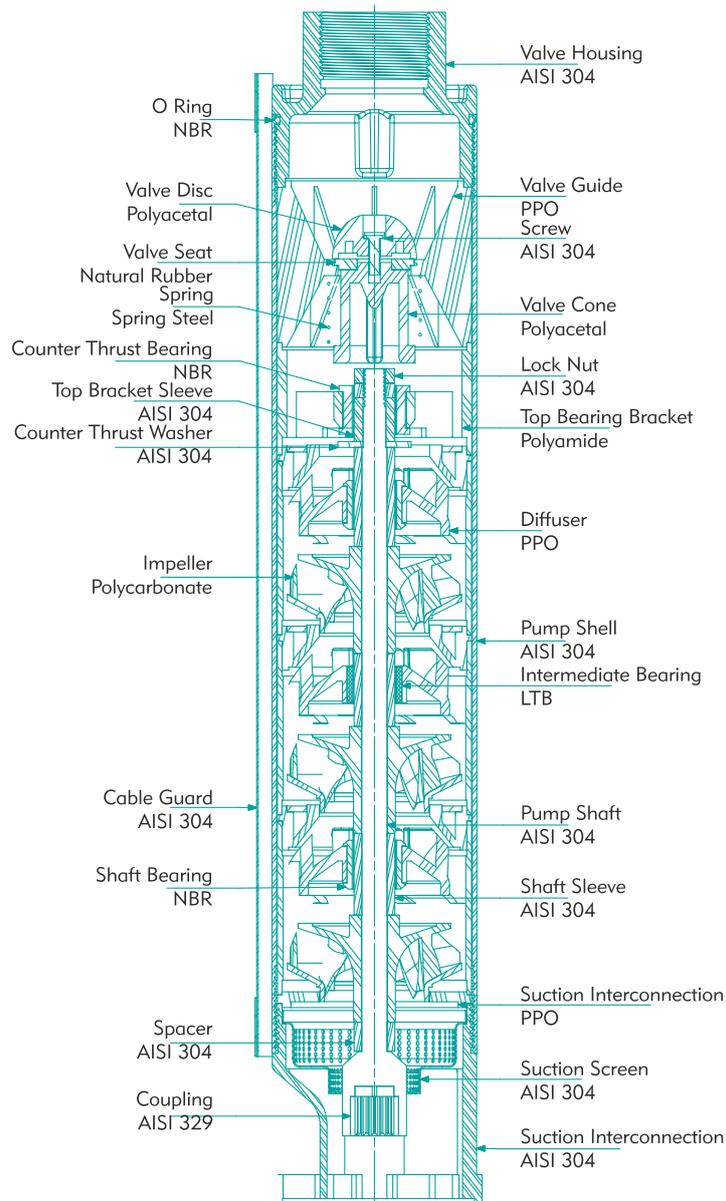


NEMA mounting dimensions.

CONSTRUCTIONAL DATA

40 gpm (8 m³/hr)

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

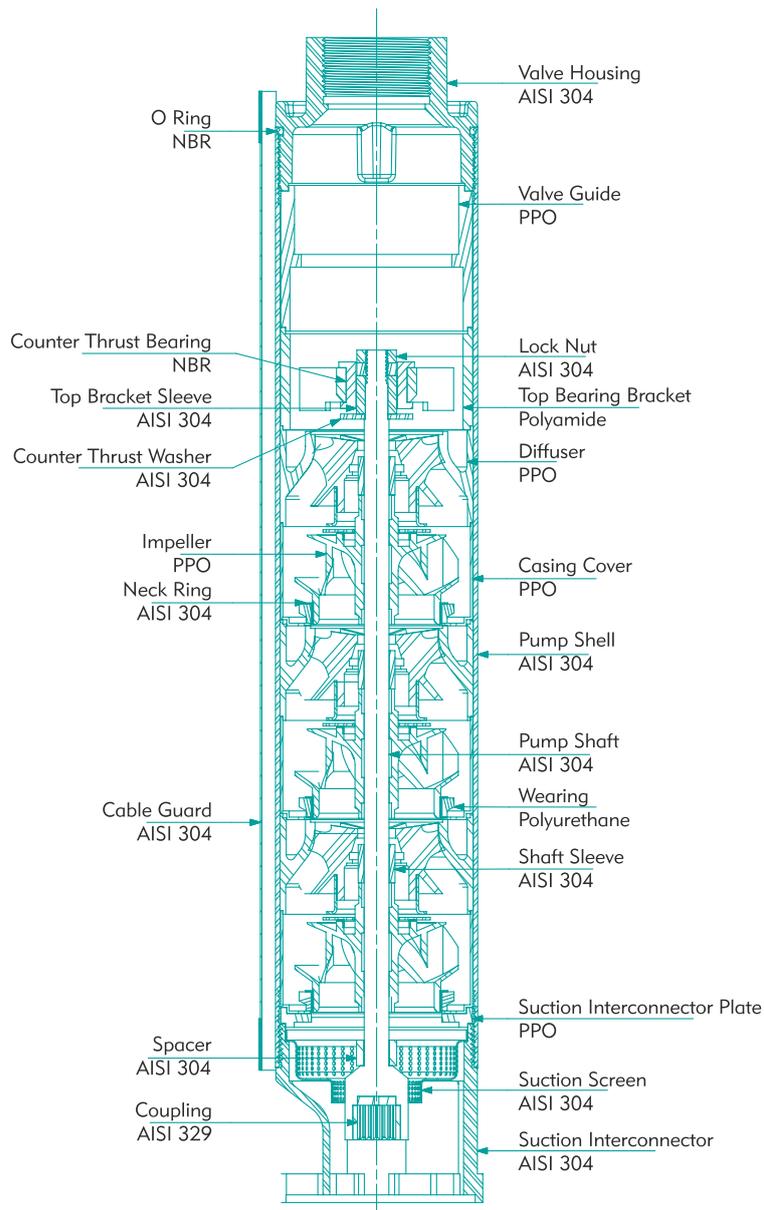


NEMA mounting dimensions.

CONSTRUCTIONAL DATA

50 - 90 gpm (10 - 18 m³/hr)

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



NEMA mounting dimensions.

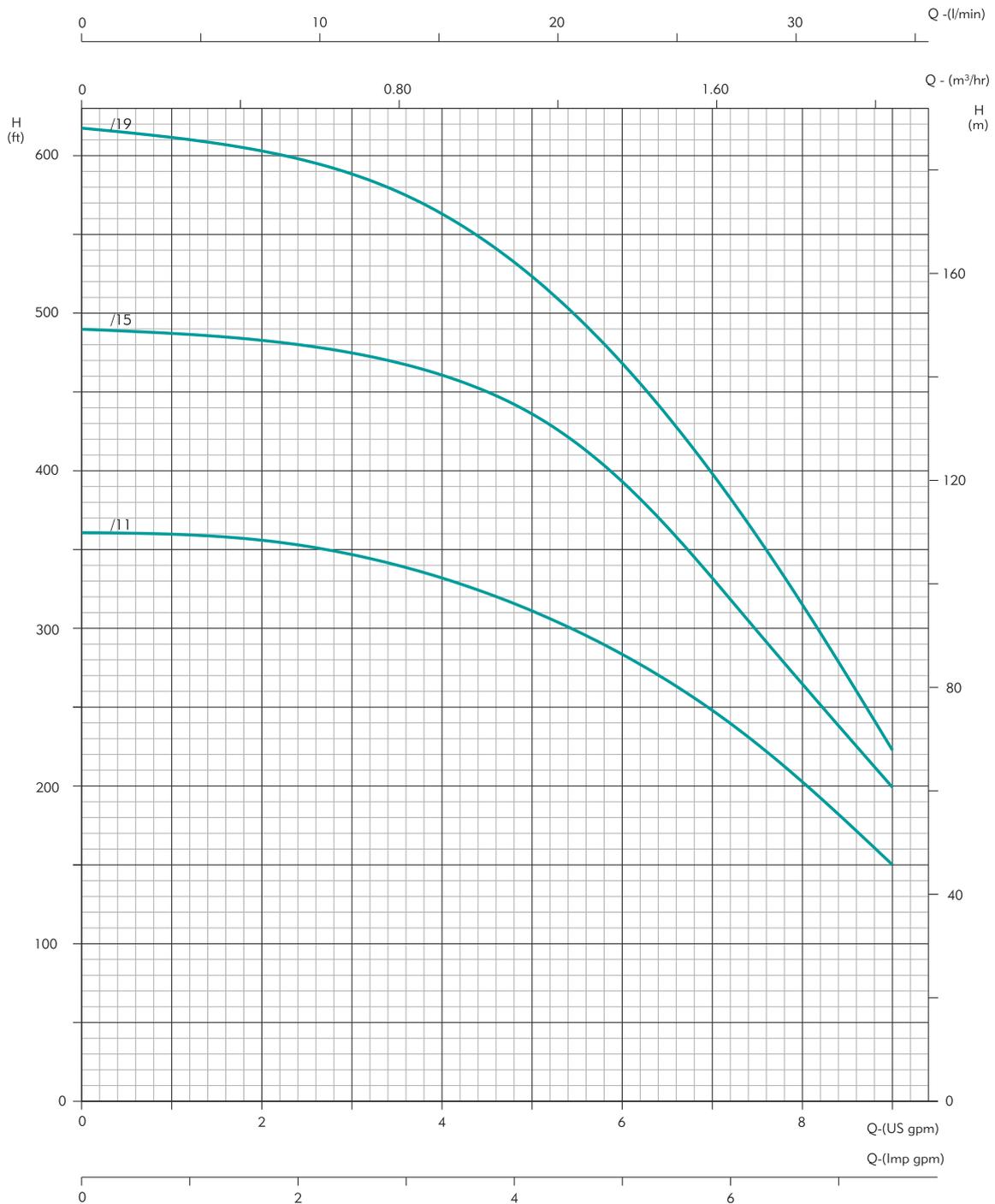
PERFORMANCE CURVES

TP SERIES > 4"

Model : **TP100-5 (1m³/hr)**

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

3450 rpm



Curve tolerance according to ISO : 9906, Annex - A, Grade-3B.

PERFORMANCE DATA

TP SERIES > 4"

Model : **TP100-5 (1m³/hr)**

Outlet Size : **1¼" NPT**

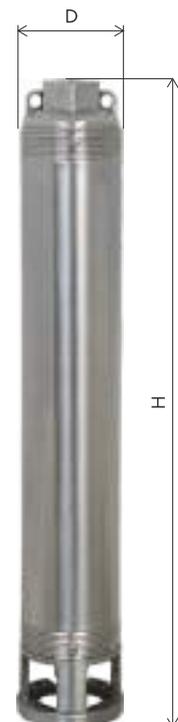
3450 rpm

Pump Model	Power		m ³ /hr USGPM	0	0.45	0.91	1.36	1.80
	kW	HP		0	2	4	6	8
TP100-5/11	0.37	0.5	Total Dynamic Head In Meter	110	108	101	86	46
TP100-5/15	0.55	0.75		149	144	140	120	61
TP100-5/19	0.75	1		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.



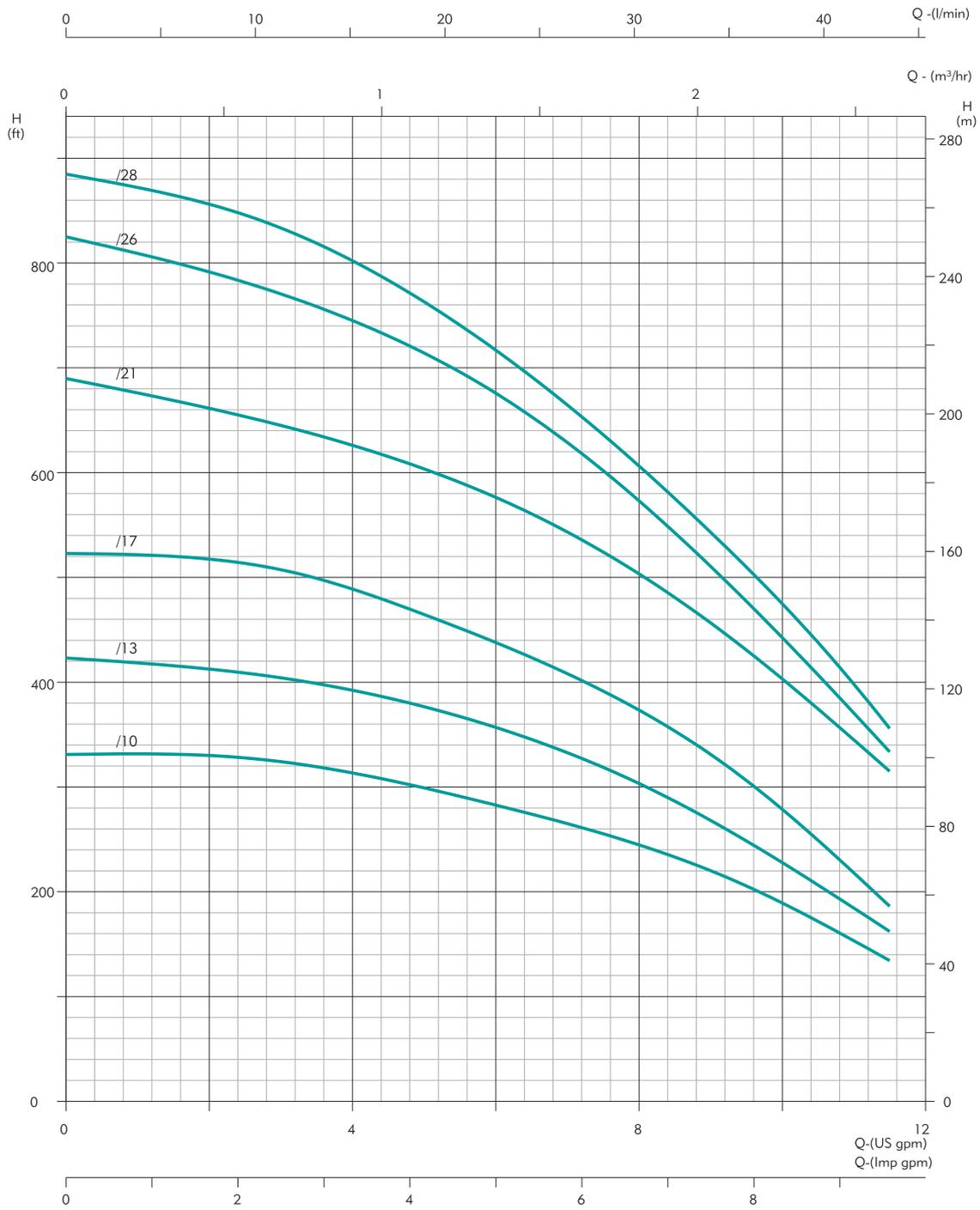
PERFORMANCE CURVES

TP SERIES > 4"

Model : **TP100-7 (1.5m³/hr)**

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

3450 rpm



Curve tolerance according to ISO : 9906, Annex - A, Grade-3B.

PERFORMANCE DATA

TP SERIES > 4"

Model : **TP100-7 (1.5m³/hr)**

Outlet Size : **1" NPT**

3450 rpm

Pump Model	Power		m ³ /hr USGPM	0	0.45	1.36	2.27	2.61
	kW	HP		0	2	6	10	11.5
TP100-7/10	0.37	0.5	Total Dynamic Head in Meter	101	101	86	58	41
TP100-7/13	0.55	0.75		129	126	109	70	49
TP100-7/17	0.75	1		159	158	134	85	57
TP100-7/21	0.75	1		210	202	176	123	96
TP100-7/26	1.5	2		251	241	206	135	102
TP100-7/28	1.5	2		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.



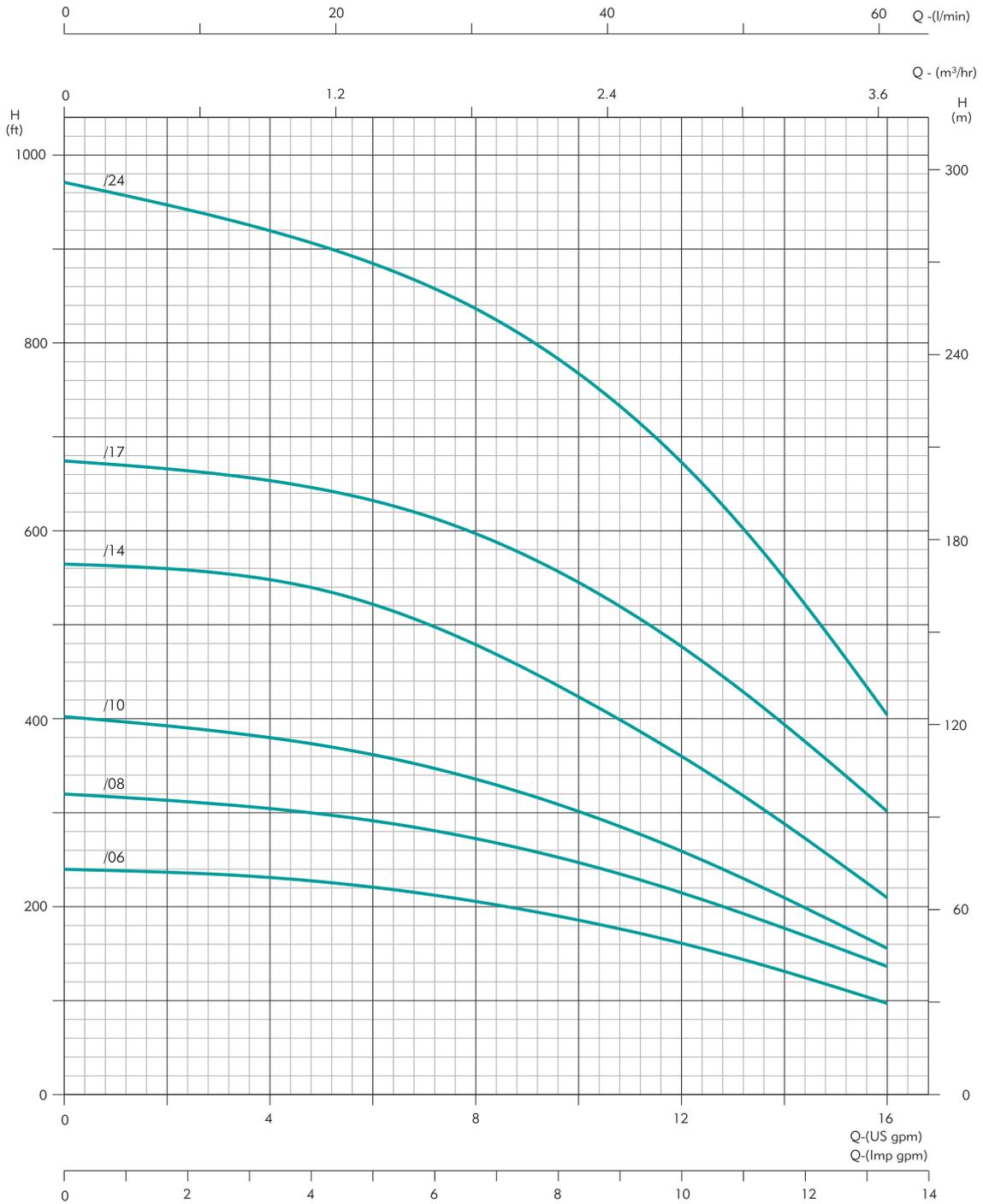
PERFORMANCE CURVES

TP SERIES > 4"

Model : **TP100-10 (2m³/hr)**

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

3450 rpm



Curve tolerance according to ISO : 9906, Annex - A, Grade-3B.

PERFORMANCE DATA

TP SERIES > 4"

Model : **TP100-10 (2m³/hr)**

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

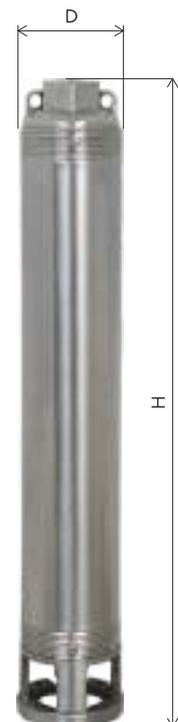
3450 rpm

Pump Model	Power		m ³ /hr USGPM	0	0.91	1.82	2.73	3.63
	kW	HP		0	4	8	12	16
TP100-10/06	0.37	0.5	Total Dynamic Head in Meter	73	70	63	49	30
TP100-10/08	0.55	0.75		98	93	83	66	42
TP100-10/10	0.75	1		123	116	102	79	48
TP100-10/14	1.1	1.5		172	167	146	110	64
TP100-10/17	1.5	2		205	199	182	146	92
TP100-10/24	2.2	3		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.



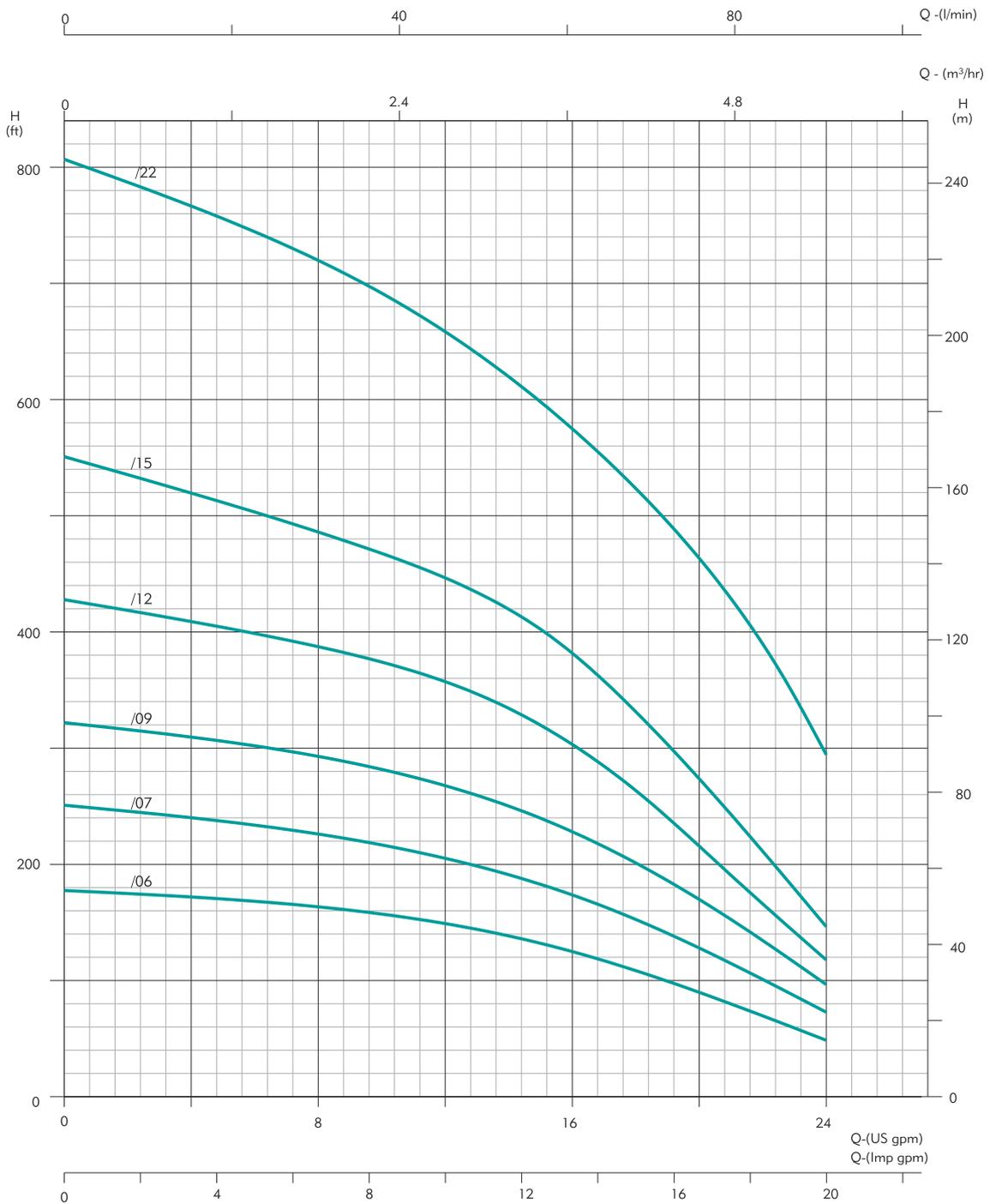
PERFORMANCE CURVES

TP SERIES > 4"

Model : **TP100-15 (3m³/hr)**

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

3450 rpm



Curve tolerance according to ISO : 9906, Annex - A, Grade-3B.

PERFORMANCE DATA

TP SERIES > 4"

Model : **TP100-15 (3m³/hr)**

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

3450 rpm

Pump Model	Power		m ³ /hr USGPM	0	0.91	2.73	4.54	5.45
	kW	HP		0	4	12	20	24
TP100-15/05	0.37	0.5	Total Dynamic Head in Meter	54	52	45	27	15
TP100-15/07	0.55	0.75		76	73	63	39	22
TP100-15/09	0.75	1		98	94	82	52	29
TP100-15/12	1.1	1.5		130	125	109	66	36
TP100-15/15	1.5	2		168	158	137	84	45
TP100-15/22	2.2	3		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.



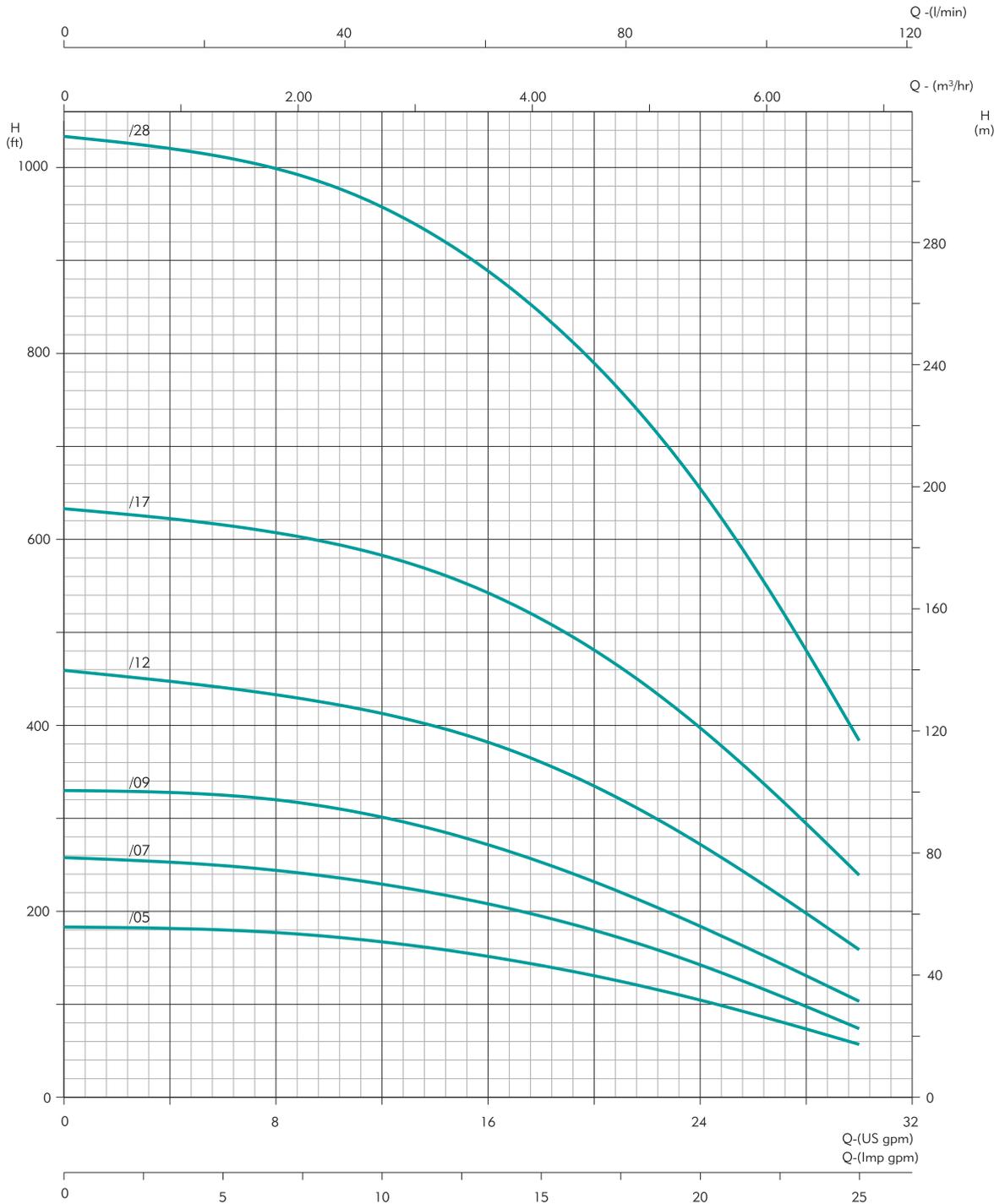
PERFORMANCE CURVES

TP SERIES > 4"

Model : **TP100-20 (4m³/hr)**

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

3450 rpm



Curve tolerance according to ISO : 9906, Annex - A, Grade-3B.

PERFORMANCE DATA

TP SERIES > 4"

Model : **TP100-20 (4m³/hr)**

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

3450 rpm

Pump Model	Power		m ³ /hr USGPM	0	1.82	3.63	5.45	6.81
	kW	HP		0	8	16	24	30
TP100-20/05	0.37	0.5	Total Dynamic Head in Meter	55	54	46	32	18
TP100-20/07	0.5	0.75		79	74	63	44	23
TP100-20/09	0.75	1		101	98	83	56	31
TP100-20/12	1.1	1.5		140	132	116	83	48
TP100-20/17	1.5	2		192	185	165	121	73
TP100-20/28	2.25	3		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.



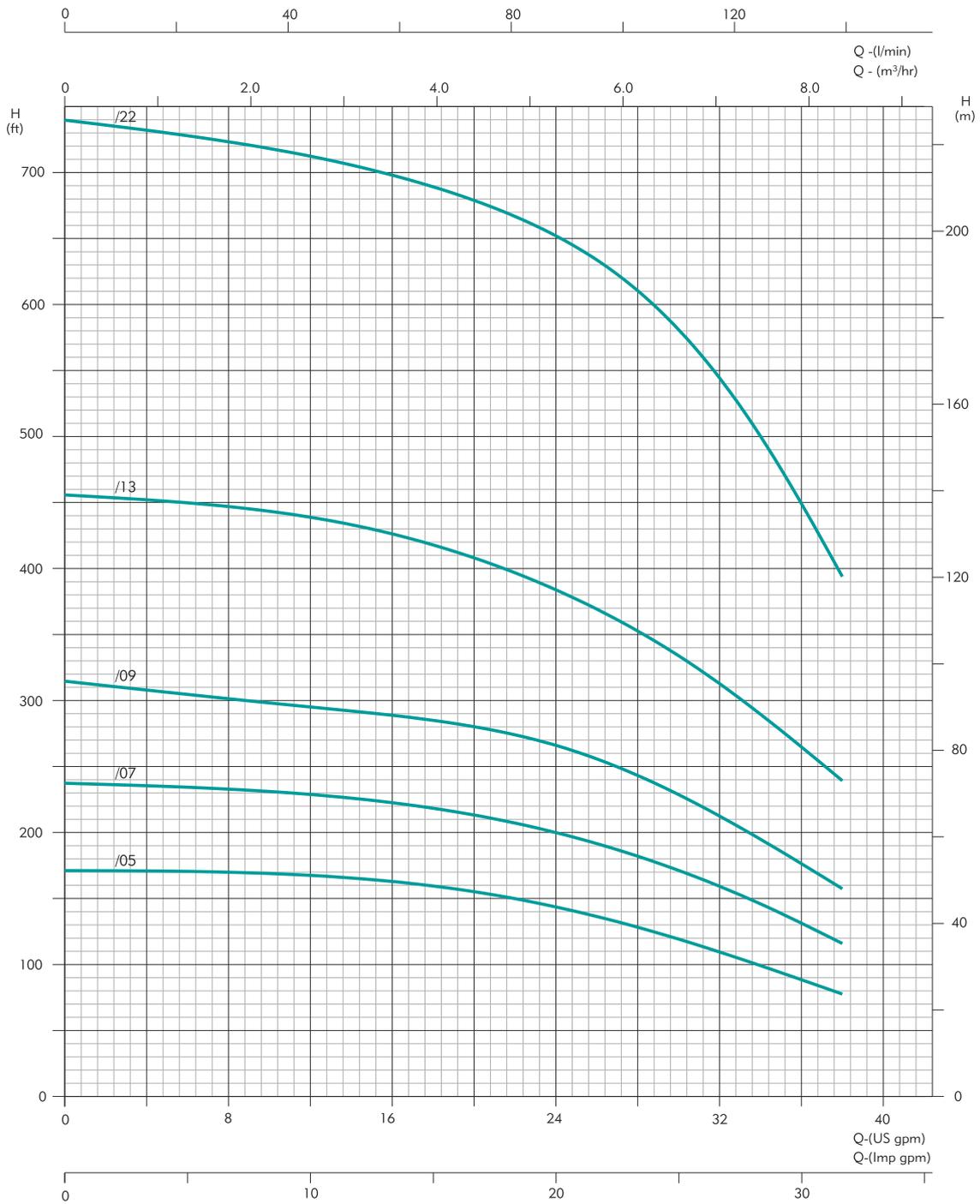
PERFORMANCE CURVES

TP SERIES > 4"

Model : **TP100-25 (5m³/hr)**

Outlet Size : **1½" NPT**

3450 rpm



Curve tolerance according to ISO : 9906, Annex - A, Grade-3B.

PERFORMANCE DATA

TP SERIES > 4"

Model : **TP100-25 (5m³/hr)**

Outlet Size : **1½" NPT**

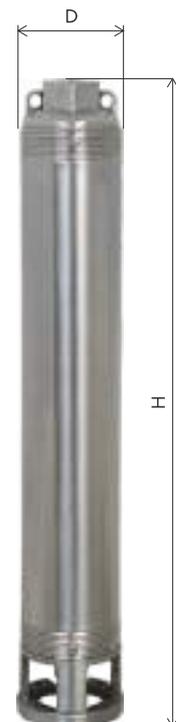
3450 rpm

Pump Model	Power		m ³ /hr USGPM	0	1.82	3.63	5.45	7.27	8.18
	kW	HP		0	8	16	24	32	36
TP100-25/05	0.75	1	Total Dynamic Head in Meter	52	52	50	44	33	24
TP100-25/07	1.1	1.5		73	71	68	61	48	36
TP100-25/09	1.5	2		96	92	88	81	65	48
TP100-25/13	2.2	3		139	136	130	117	95	73
TP100-25/22	3.7	5		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.



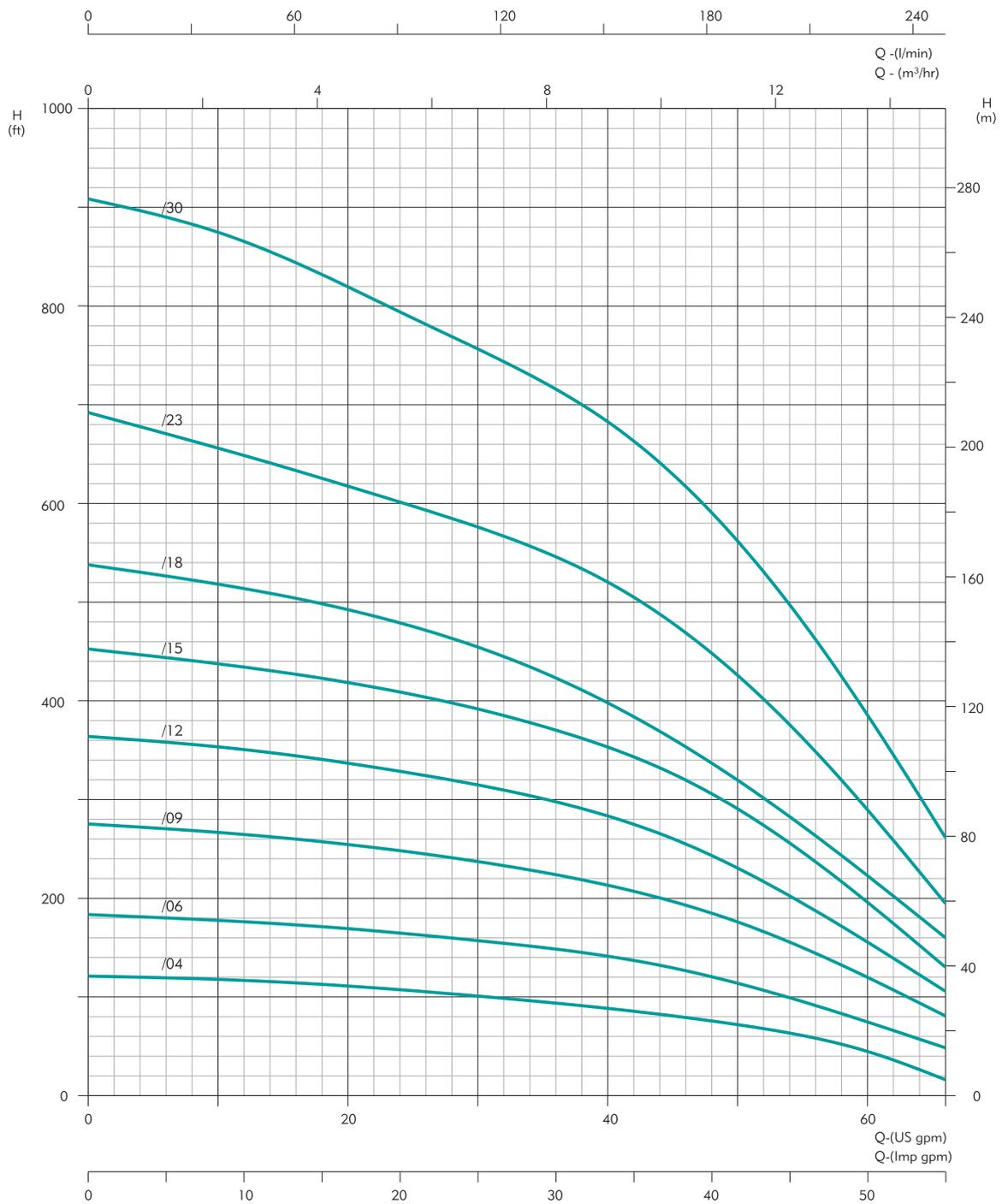
PERFORMANCE CURVES

TP SERIES > 4"

Model : **TP100-40 (8m³/hr)**

Outlet Size : **2" NPT**

3450 rpm



Curve tolerance according to ISO : 9906, Annex - A, Grade-3B.

PERFORMANCE DATA

TP SERIES > 4"

Model : **TP100-40 (8m³/hr)**

Outlet Size : **2" NPT**

3450 rpm

Pump Model	Power		m ³ /hr USGPM	0	4.54	9.08	12.26	14.99
	kW	HP		0	20	40	54	66
TP100-40/04	1.1	1.5	Total Dynamic Head in Meter	37	34	27	20	5
TP100-40/06	1.5	2		55	51	43	30	15
TP100-40/09	2.2	3		84	78	65	48	25
TP100-40/12	3	4		111	103	87	62	32
TP100-40/15	3.7	5		138	127	108	78	40
TP100-40/18	4.5	6		164	150	121	87	49
TP100-40/23	5.5	7.5		210	188	158	114	60
TP100-40/30	7.5	10		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.



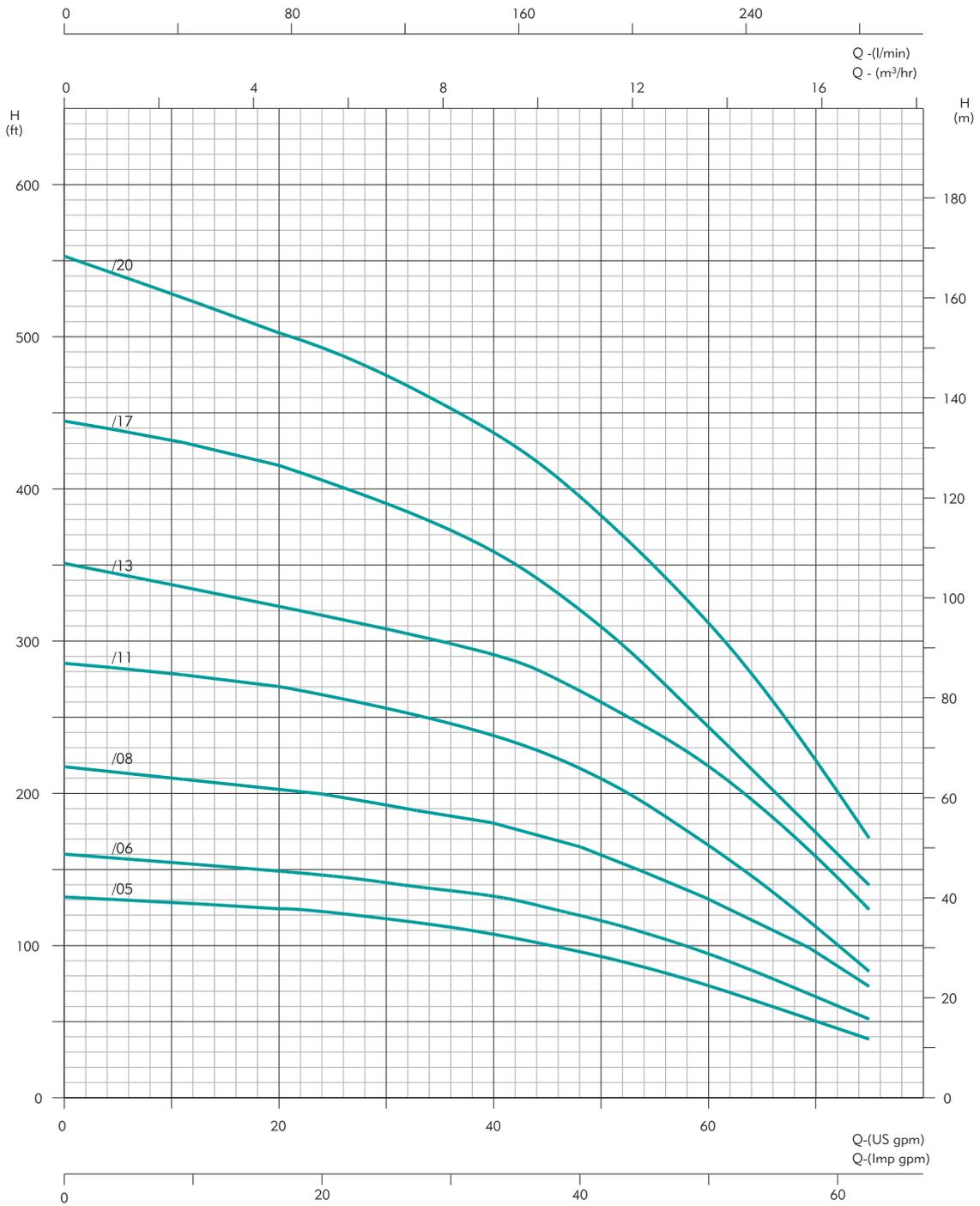
PERFORMANCE CURVES

TP SERIES > 4"

Model : **TP100-50 (10m³/hr)**

Outlet Size : **2" NPT**

3450 rpm



Curve tolerance according to ISO : 9906, Annex - A, Grade-3B.

PERFORMANCE DATA

TP SERIES > 4"

Model : **TP100-50 (10m³/hr)**

Outlet Size : **2" NPT**

3450 rpm

Pump Model	Power		m ³ /hr USGPM	0	4.54	9.08	13.63	17.03
	kW	HP		0	20	40	60	75
TP100-50/05	1.5	2	Total Dynamic Head in Meter	40	38	33	23	12
TP100-50/06	1.5	2		49	45	41	29	16
TP100-50/08	2.2	3		66	62	55	40	23
TP100-50/11	3.7	5		87	82	73	51	25
TP100-50/13	3.7	5		107	99	89	66	38
TP100-50/17	5.5	7.5		136	127	109	74	43
TP100-50/20	5.5	7.5		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.



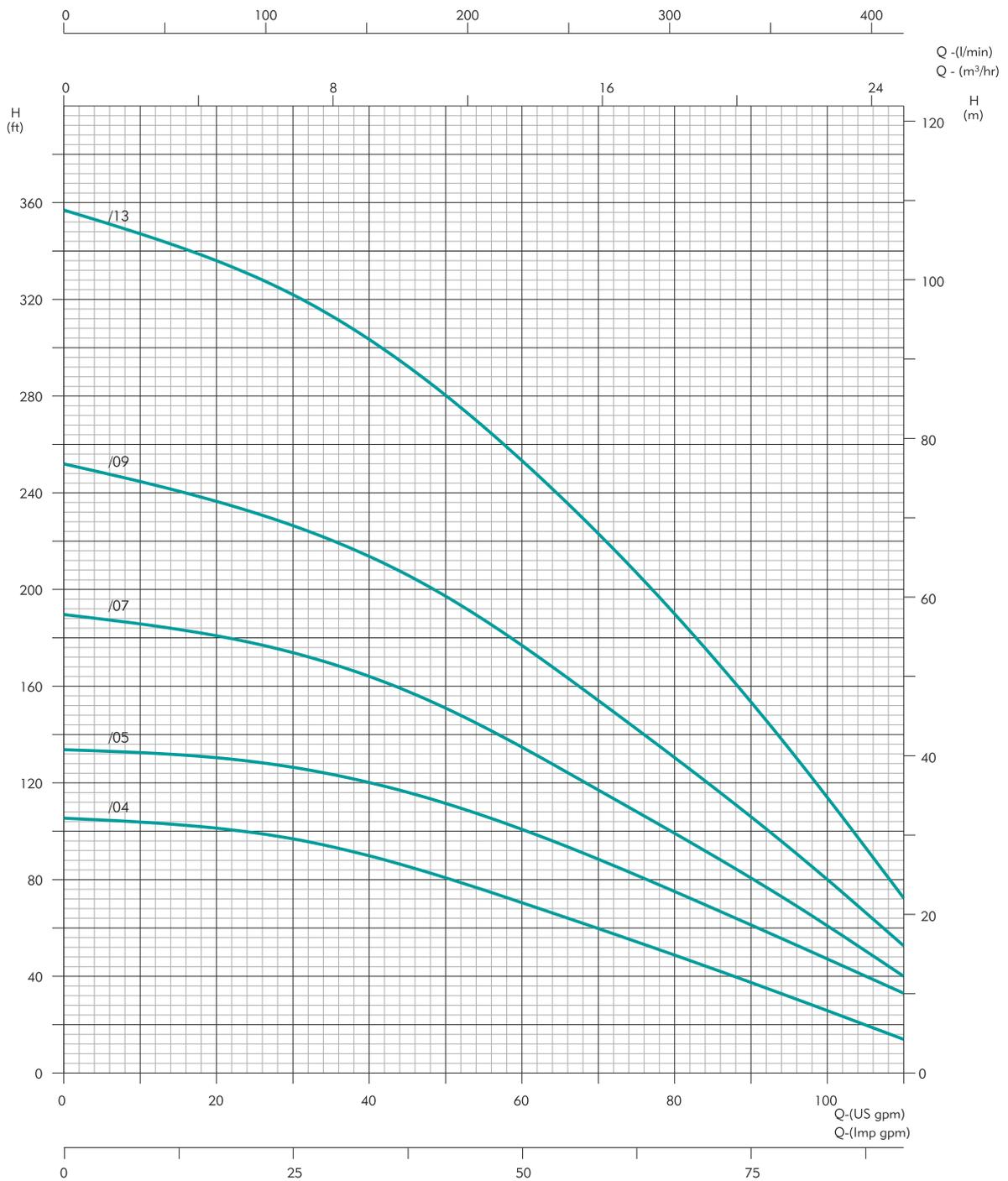
PERFORMANCE CURVES

TP SERIES > 4"

Model : **TP100-70 (14m³/hr)**

Outlet Size : **2" NPT**

3450 rpm



Curve tolerance according to ISO : 9906, Annex - A, Grade-3B.

PERFORMANCE DATA

TP SERIES > 4"

Model : **TP100-70 (14m³/hr)**

Outlet Size : **2" NPT**

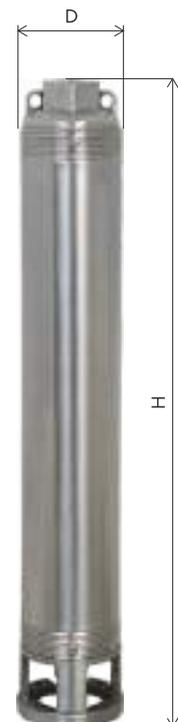
3450 rpm

Pump Model	Power		m ³ /hr USGPM	0	6.81	13.63	20.44	24.98
	kW	HP		0	30	60	90	110
TP100-70/04	1.5	2	Total Dynamic Head in Meter	32	30	21	12	4
TP100-70/05	2.2	3		41	38	31	19	10
TP100-70/07	3	4		58	53	42	25	12
TP100-70/09	3.7	5		77	69	54	32	16
TP100-70/13	5.5	7.5		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.



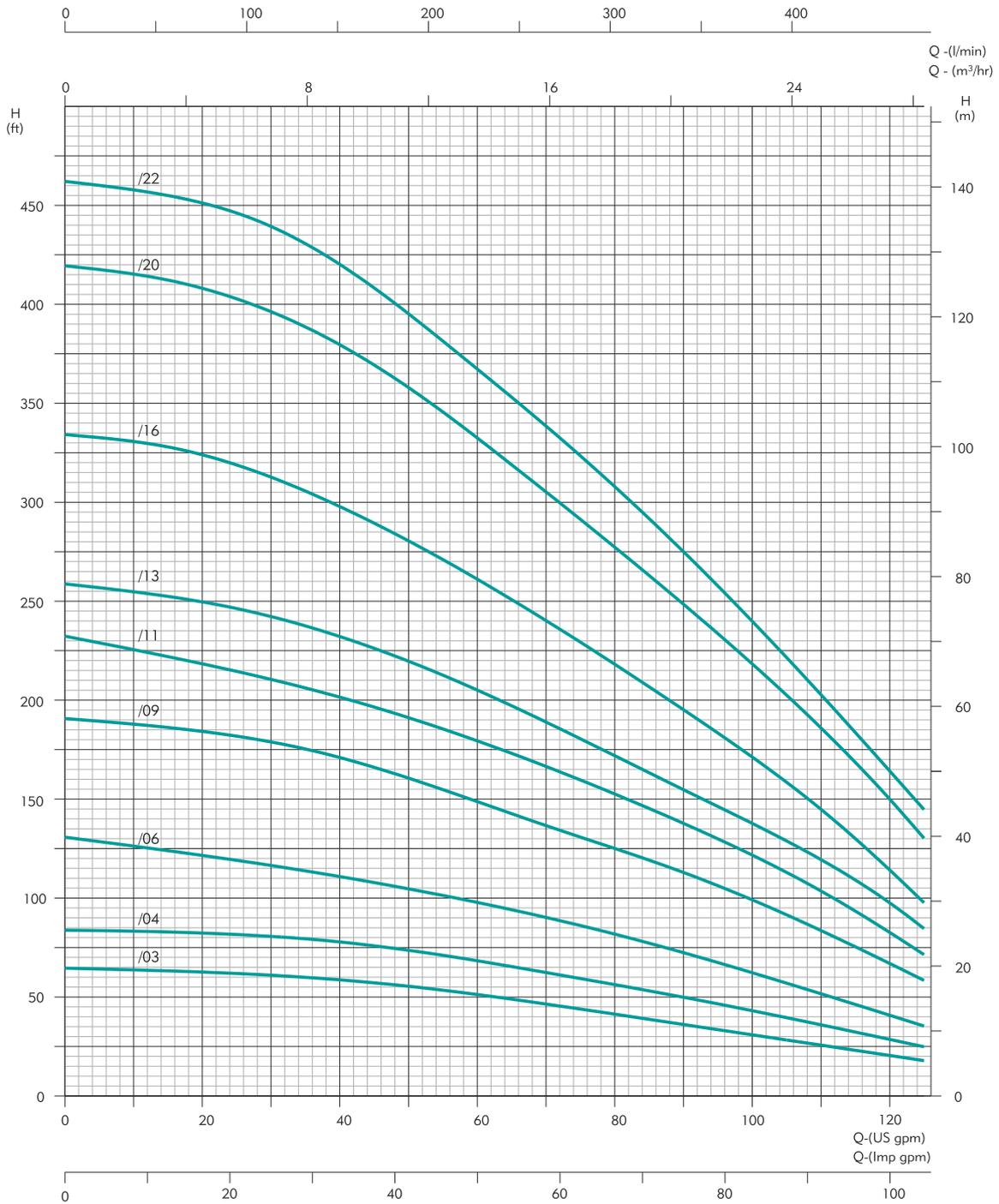
PERFORMANCE CURVES

TP SERIES > 4"

Model : **TP100-90 (18m³/hr)**

Outlet Size : **2" NPT**

3450 rpm



Curve tolerance according to ISO : 9906, Annex - A, Grade-3B.

PERFORMANCE DATA

TP SERIES > 4"

Model : **TP100-90** (18m³/hr)

Outlet Size : **2" NPT**

3450 rpm

Pump Model	Power		m ³ /hr USGPM	0	6.81	13.63	20.44	24.98	28.39
	kW	HP		0	30	60	90	110	125
TP100-90/03	1.1	1.5	Total Dynamic Head in Meter	20	19	16	11	8	5
TP100-90/04	1.5	2		26	25	21	15	11	8
TP100-90/06	2.2	3		40	36	30	22	16	11
TP100-90/09	3	4		58	54	45	34	26	18
TP100-90/11	3.7	5		71	64	55	42	32	22
TP100-90/13	4.5	6		79	74	62	47	36	26
TP100-90/16	5.5	7.5		102	95	80	59	44	30
TP100-90/20	7.5	10		128	121	101	76	57	40
TP100-90/22	7.5	10		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.



CABLE SELECTION CHART

For Single Phase 2/3 wire motors, Maximum Length of Copper Cable

Motor Rating		Cable Size in American Wire Gauge										Maximum Length in Meter
Volts	HP	14	12	10	8	6	4	3	2	1	1/0	
230 Volt 60Hz	0.5	105	168	424	671	1071	1349	1702	2145	2703		
	0.75	80	127	322	510	813	1024	1292	1628	2052	2589	
	1	62	99	250	395	631	795	1002	1263	1591	2008	
	1.5	54	86	217	344	549	691	872	1099	1384	1747	
	2	50	80	202	321	511	644	812	1024	1290	1628	
	3	37	59	150	238	379	478	602	759	957	1207	
5	-	-	95	151	241	304	383	482	608	767		

For Three Phase 3 wire (DOL) Motors, Maximum Length of Copper Cable - Single cable per phase

Motor Rating		Cable Size in American Wire Gauge												Maximum Length in Meter	
Volts	HP	14	12	10	8	6	4	3	2	1	1/0	2/0	3/0		4/0
230 Volt 60Hz	0.5	257	409	649	1034	1638									
	0.75	185	295	468	745	1181	1883								
	1	145	230	366	582	923	1472	1855							
	1.5	109	173	276	439	696	1109	1398	1762						
	2	83	132	210	334	529	844	1063	1340	1689					
	3	66	105	168	267	423	675	850	1072	1351	1703	2149			
	4	47	74	120	191	302	482	607	766	965	1216	1535			
	5	34	54	86	137	217	346	436	550	693	873	1102	1390	1752	
	6	29	16	73	116	184	294	370	466	588	740	934	1178	1485	
	7.5		38	61	97	154	245	309	390	491	619	781	985	1242	
	10		30	48	76	121	193	243	306	386	486	614	774	976	
	12.5			41	65	103	165	207	262	329	415	524	661	833	
	15			34	55	86	138	173	219	276	347	439	553	697	
	17			30	47	74	118	149	188	237	299	377	475	599	
	20				41	66	105	132	166	210	265	334	421	530	
	25				34	54	86	109	137	173	218	275	347	437	
	30					46	73	92	116	147	185	233	294	371	
35					33	52	66	84	105	133	167	211	266		
40						45	56	71	89	113	142	179	226		
50						40	50	63	79	100	126	159	201		

For Three Phase 3 wire (SD) Motors, Maximum Length of Copper Cable - Single cable per phase

Motor Rating		Cable Size in American Wire Gauge												Maximum Length in Meter	
Volts	HP	14	12	10	8	6	4	3	2	1	1/0	2/0	3/0		4/0
230 Volt 60Hz	0.5	539	858	1363	2170	3439									
	0.75	389	619	983	1565	2480	3955								
	1	304	484	768	1223	1939	3092	3895							
	1.5	229	365	579	922	1461	2330	2935	3701						
	2	174	277	440	701	1111	1771	2231	2815	3548					
	3	139	222	352	561	888	1417	1785	2252	2838	3576	4512			
	4	0	0	251	401	635	1012	1275	1608	2027	2554	3223			
	5	71	114	180	287	456	727	916	1155	1455	1834	2314	2918	3679	
	6	30	96	153	244	386	616	776	979	1234	1555	1962	2474	3119	
	7.5		80	128	204	323	515	649	819	1032	1300	1641	2069	2609	
	10		63	101	160	254	405	510	643	811	1022	1289	1626	2050	
	12.5			86	137	217	346	436	549	692	872	1100	1388	1750	
	15			72	114	181	289	364	460	579	730	921	1161	1464	
	17.5			62	98	156	249	313	395	498	627	792	998	1259	
	20				87	138	220	277	350	441	555	701	884	1114	
	25				72	114	181	228	288	363	457	577	728	917	
	30					97	154	194	245	308	389	490	618	780	
35					69	110	139	175	221	279	351	443	559		
40						94	118	149	188	237	298	376	475		
50						83	105	132	166	210	265	334	421		

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

CABLE SELECTION CHART

For Three Phase 3 wire (DOL) Motors, Maximum Length of Copper Cable - Single cable per phase

Motor Rating		Cable Size in American Wire Gauge																		
Volts	HP	14	12	10	8	6	4	3	2	1	1/0	2/0	3/0	4/0	250	300	350	400	500	
380 Volt 60Hz	0.5	724	1152	1829	2913	4616														
	0.75	573	912	1448	2306	3654														
	1	382	608	966	1537	2436														
	1.5	287	456	724	1153	1827														
	2	237	377	599	954	1512														
	3	191	304	483	769	1218														
	4	145	0	366	582	923														
	5		166	263	419	664														
	6		140	223	355	562	897													
	7.5		114	181	288	457	728													
	10		88	139	222	351	561													
	12.5		73	116	184	292	466													
	15			98	156	248	395	498												
	17.5			89	141	223	357	484												
	20				110	175	291	397	577											
	25				98	155	247	300	378	476										
	30					130	207	281	354	447	563									
	35						184	249	314	396	499									
	40						153	193	244	270	340	430	542							
	50						123	155	195	246	272	344	394	497						
	60							145	183	188	237	300	361	433						
	75								170	168	212	243	307	387						
	85								157	156	196	225	284	358						
	100									134	168	212	267	297	270					
	125										135	170	215	270	246	323				
	150											163	205	259	228	286				
	175													201	201	216	303			
	200														152	197	227			
225															150	230	243	329		
250																175	185	250		
300																	168	178	240	
350																		155	209	
400																			132	179

For Three Phase 3 wire (SD) Motors, Maximum Length of Copper Cable - Single cable per phase

Motor Rating		Cable Size in American Wire Gauge																			
Volts	HP	14	12	10	8	6	4	3	2	1	1/0	2/0	3/0	4/0	250	300	350	400	500		
380 Volt 60Hz	0.5	1519	2419	3842	6117	9693															
	0.8	1203	1915	2980	4842	7673															
	1	802	1277	2028	3228	5116															
	1.5	601	957	1521	2421	3837															
	2	498	792	1259	2004	3175															
	3	401	638	1014	1614	2558															
	4	304	484	768	1223	1939															
	5		348	553	881	1395															
	6		294	468	745	1180	1883														
	7.5		239	380	605	959	1530														
	10		184	292	466	738	1177														
	12.5		153	243	387	614	979														
	15			206	328	520	830	1045													
	17.5			186	296	469	749	1016													
	20				231	367	611	833	1212												
	25				205	326	520	629	794	1000											
	30					273	435	590	745	938	1183										
	35						386	523	660	832	1048										
	40						322	406	512	568	715	903	1138								
	50						258	325	409	516	572	722	828	1044							
	60							305	385	396	499	629	757	910							
	75								357	354	446	511	644	813							
	85								330	327	412	472	596	751							
	100									280	353	445	562	623	517						
	125										283	357	450	568	479	679					
	150											342	431	543	423	600					
	175													423	320	454	636				
	200															414	477				
225																315	483	511	690		
250																	367	389	525		
300																		353	374	504	
350																			325	439	
400																				278	375

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

CABLE SELECTION CHART

For Three Phase 3 wire (DOL) Motors, Maximum Length of Copper Cable - Single cable per phase

Motor Rating		Cable Size in American Wire Gauge																		
Volts	HP	14	12	10	8	6	4	3	2	1	1/0	2/0	3/0	4/0	250	300	350	400	500	
460 Volt 60Hz	0.5	1149	1835	2883																
	0.75	832	1326	2088																
	1	701	1119	1759	2765															
	1.5	518	1131	1301	2051															
	2	396	631	997	1570	2454														
	3	305	488	768	1210	1890														
	4	228	0	576	918	1454														
	5	180	290	457	719	1128	1728													
	5.5	170	270	429	684	1083	1504													
	6	155	247	393	626	992	1250													
	7.5	128	207	326	515	805	930	1554	1908	2188										
	10	94	152	241	381	597	798	1158	1426	1753	2149									
	12.5		125	198	316	500	637	1006	1245	1513	1870	2314								
	15		104	165	259	408	491	792	975	1198	1466	1798	2167							
	20			125	198	314	396	610	753	927	1137	1396	1686							
	25				162	253	326	494	607	747	917	1128	1362	1655						
	30				131	207	282	405	500	619	759	933	1128	1372	1563	1783				
	35					177	241	349	432	534	647	817	968	1169	1409	1512				
	40					152	195	299	369	454	558	686	826	973	1134	1293				
	50						165	244	299	369	451	552	668	808	914	1039	1167	1271	1476	
	60							204	253	311	381	469	564	683	772	878	985	1076	1277	
	75								207	256	314	384	463	564	636	728	819	896	1045	
	85									227	280	346	418	504	574	648	698	759	887	
	100									189	232	287	344	421	472	543	610	665	774	
	110											212	267	319	337	416	441	467	567	
	125												226	271	305	369	421	472	515	594
	150													232	280	317	360	405	443	512
	175														247	281	321	360	394	458
	200															244	277	310	342	396
	225																	270	300	345
250																	230	270	300	
300																	190	230	255	
350																	150	190	210	
400																	110	150	160	
450																	100	105	142	
500																	88	93	126	
550																	80	85	115	
600																	72	76	102	

For Three Phase 3 wire (SD) Motors, Maximum Length of Copper Cable - Single cable per phase

Motor Rating		Cable Size in American Wire Gauge																		
Volts	HP	14	12	10	8	6	4	3	2	1	1/0	2/0	3/0	4/0	250	300	350	400	500	
460 Volt 60Hz	0.5	268	433	686	1052	1692	2627													
	0.75	226	360	572	911	1444	2304													
	1	208	330	524	835	1323	2110													
	1.5	192	311	488	771	1207	1875	2332	2862											
	2	140	229	360	570	896	1393	1737	2140	2627										
	3	112	178	283	451	715	1140	1437	1811	2283										
	4	94	0	247	387	613	954	1189	1463	1768	2198	2697								
	5	70	116	186	296	469	735	914	1128	1390	1704	2094	2527							
	5.5	58	94	149	241	378	594	741	908	1119	1375	1692	2042							
	6		76	125	195	311	488	607	750	927	1137	1399	1692							
	7.5			102	162	257	411	517	652	822	1036	1307	1525							
	10			91	146	229	360	448	552	680	835	1027	1244							
	12.5				113	180	293	366	448	552	677	826	1000							
	15				98	152	247	305	378	466	570	704	844							
	20					128	201	247	311	384	469	576	695							
	25						176	222	279	352	409	515	650	2481						
	30						152	186	232	283	347	430	515	2057	2344	2661				
	35							155	195	246	310	391	450	1818	2079	2213				
	40							143	180	223	268	338	405	1503	1704	1942				
	50								155	192	235	290	347	1210	1375	1564	1750	1911	2216	
	60									168	207	253	305	1024	1161	1320	1481	1618	1984	
	75										180	223	268	844	960	1097	1234	1347	1573	
	85											190	230	750	820	997	1086	1149	1496	
	100												180	631	713	817	917	1000	1164	
	110													568	621	756	882	933	1008	
	125													457	558	634	713	777	896	
	150													421	479	546	610	664	771	
	175													372	424	482	543	594	692	
	200													326	369	421	472	515	600	
	225													280	320	380	430	475	560	
250													250	290	340	390	435	520		
300													220	260	300	340	395	480		
350													190	220	260	290	350	440		
400														190	220	240	310	400		
450														125	178	208	220	297		
500														111	158	184	194	262		
550														101	144	168	177	239		
600														90	128	149	158	213		

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

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 (SS 304, SS 316 & SS 904L), Submersible Motors (CI, SS 304, SS 316 & SS 904L - HT on optional), Starters & Control Panels, Centrifugal Monoblock Pumps, End Suction Pumps, Close Coupled Pumps, Horizontal Split Case Pumps, Horizontal & Vertical Multistage Pumps, Inline Booster Systems, Sewage, Drainage & Dewatering Pumps, Induction Motors, Submersible Cables, Riser Pipes and Column Pipes.

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.

Naargo Industries Private Limited,

REG. OFFICE : No. 8/116, Ground Floor, Athipalayam Road, Chinnavedampatti,
Coimbatore North - 641049, Tamil Nadu, India. Tel : +91 978 6522622,
E-mail : tormac@tormacpumps.com, Web : www.tormacpumps.com