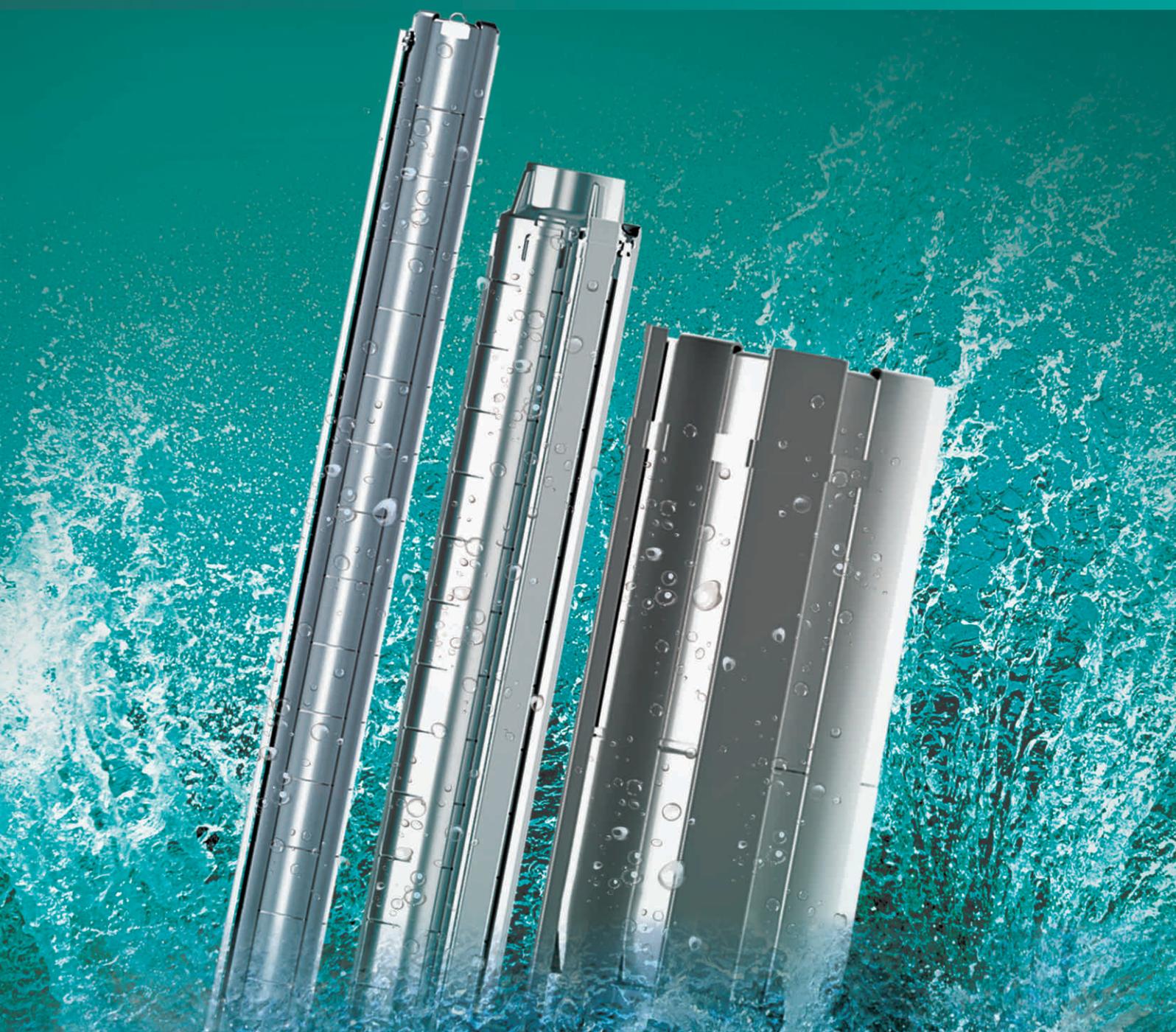




COMPACT, CORROSION-RESISTANT DESIGN WITH PRECISION  
Balanced impellers for maximum hydraulic efficiency.



Products from an ISO 9001 COMPANY



6" SUBMERSIBLE PUMPS - 50 Hz



## INDEX

### **TS SERIES - STAINLESS STEEL SUBMERSIBLE PUMPS**

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## 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, provided with integral check-valve and NEMA standard coupling. These pumps are available with fabricated impellers and diffusers made of AISI 304/316/904L 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

- Fountains
- Irrigation
- Pressure booster systems
- Public, 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, integral check valve
- Corrosion free parts for hygiene
- Low wear and tear
- Perfectly & aesthetically designed and easily serviceable.

## GENERAL DATA

### Pumped Liquids

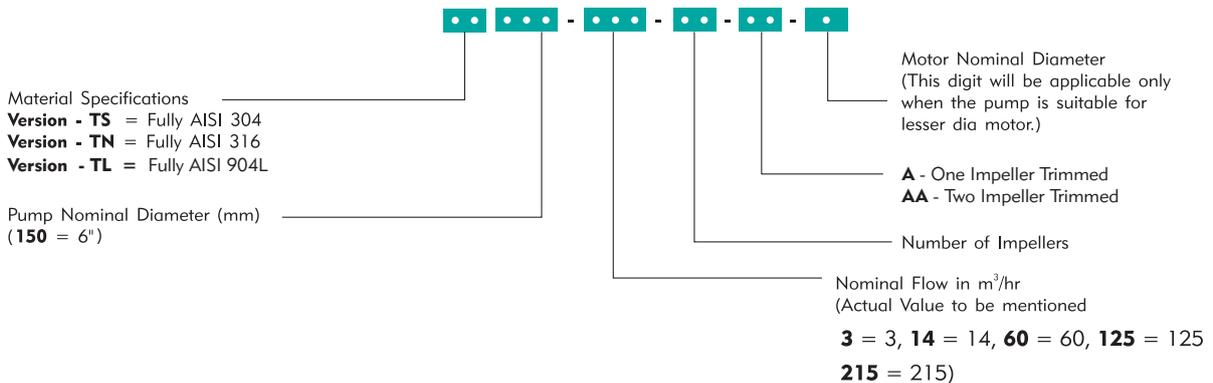
Non-aggressive, non explosive, Pure, cold, fresh water without abrasive particles having the following characteristics.

a) pH	6.5 to 8.5
b) Turbidity	50 ppm silica scale (max.)
c) Kinematic Viscosity	1 mm <sup>2</sup> /s (1cSt) (max.)
d) Hardness (Drinking Water)	300 (max.)
e) Specific gravity	1.004 (max.)
f) Allowable solids	100 ppm (max.)
g) Chlorine ion density	500 ppm (max.)
i) Permissible amount of sand	50 g/m <sup>3</sup> (max.)
h) Temperature (max)	NBR-35°C / Viton-50°C

### Pump Operating Limitations - TS / TN / TL Series

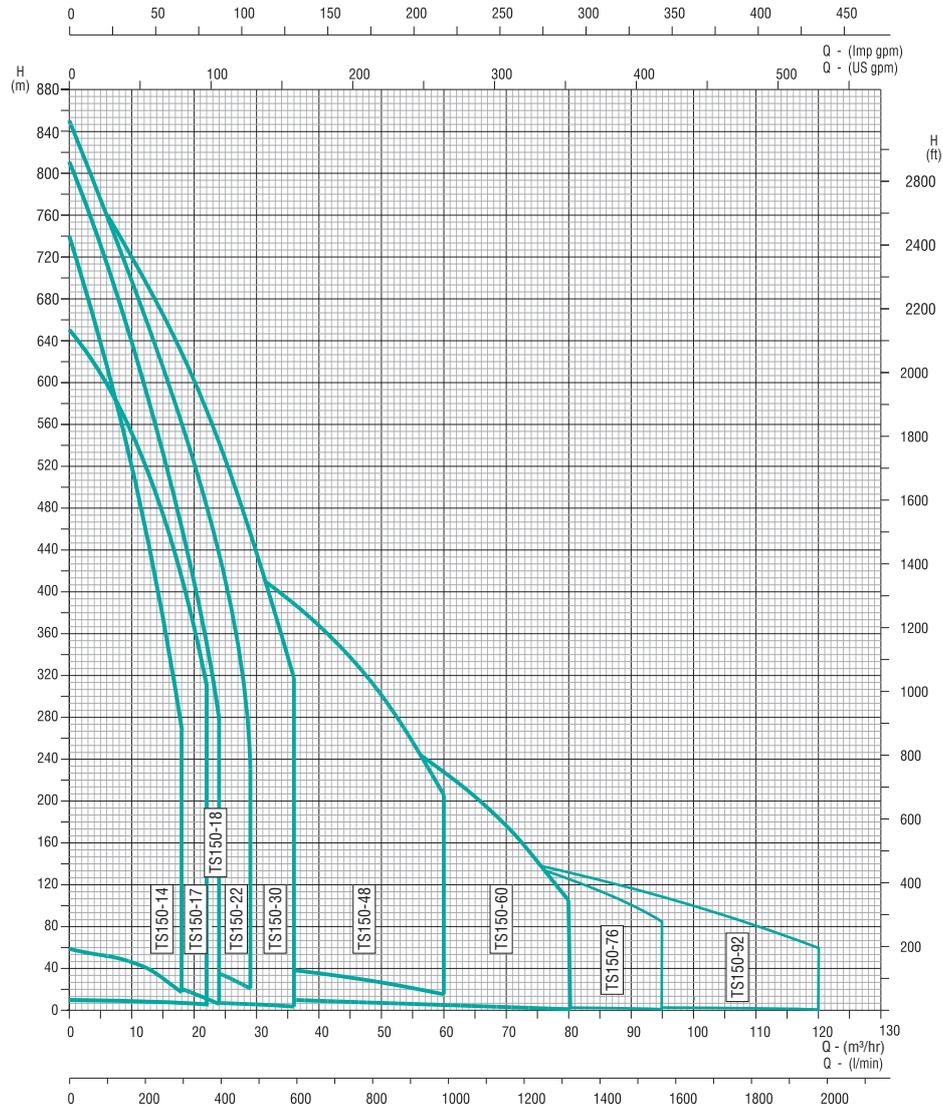
Nominal Diameter		<b>6"</b>
Power Range		0.55kW - 75kW
Speed		2900 rpm
Discharge Range	lpm	116.4 - 2000
	m <sup>3</sup> /hr	7 - 120
Total Head Range	ft	15 - 2788
	m	4.5 - 870
Delivery size in mm		50, 65, 80 & 100
Max. Operating Pressure		8.5 Mpa (85 bar)
Horizontal Installation		Minimum 30° angle
Shaft Coupling		Splines

### Model Classification ➤ Borehole Submersible Pumps



## GENERAL DATA

### Quick Selection > TS Series > Version TS / TN / TL > 6"



Curve tolerance according to ISO 9906:2012, Grade 3B

#### Performance Curve Conditions

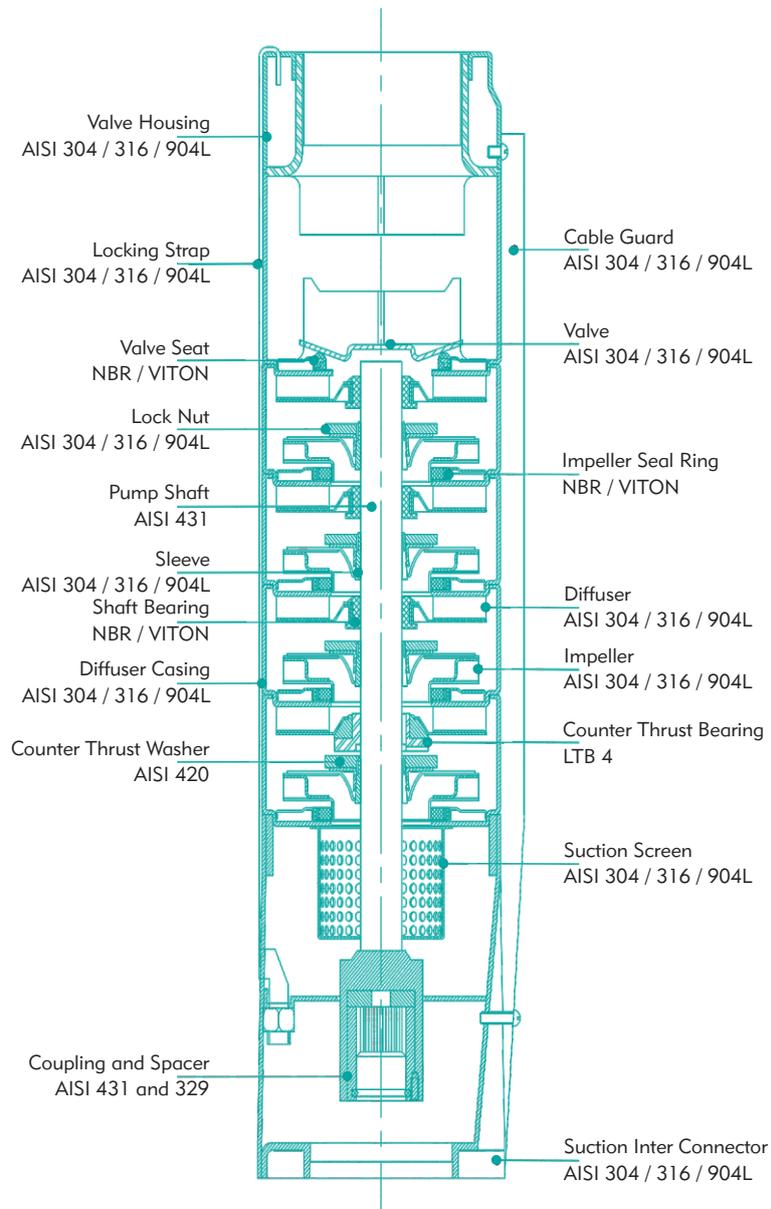
<p>a. The Performance curves show pump performance at rated speed and voltage. (2900 rpm)</p>	<p>e. The head and discharge curves are inclusive of check valve and suction inter-connector losses at the actual speed.</p>
<p>b. The measurements were made with airless water at 20°C. For pumping liquids with a density higher than that of water, motors with correspondingly higher outputs must be used.</p>	<p>f. Efficiency curve: "EFF%" shows pump stage efficiency.</p>
<p>c. Pipe friction losses have not been included in the performance curves and performance tables.</p>	<p>g. Curve tolerance according to ISO : 9906, Annex-A.</p>
<p>d. The bold curves indicate the recommended performance range.</p>	<p>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.,</p>
	<p>i. The given performance are for a specific material of construction of pump.</p>

Available material of construction: TS (AISI 304), TN (AISI 316), TL (AISI 904L).  
The given performance ranges are same for versions TS,TN&TL.

## CONSTRUCTIONAL DATA

**14 - 22 m<sup>3</sup>/hr**

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

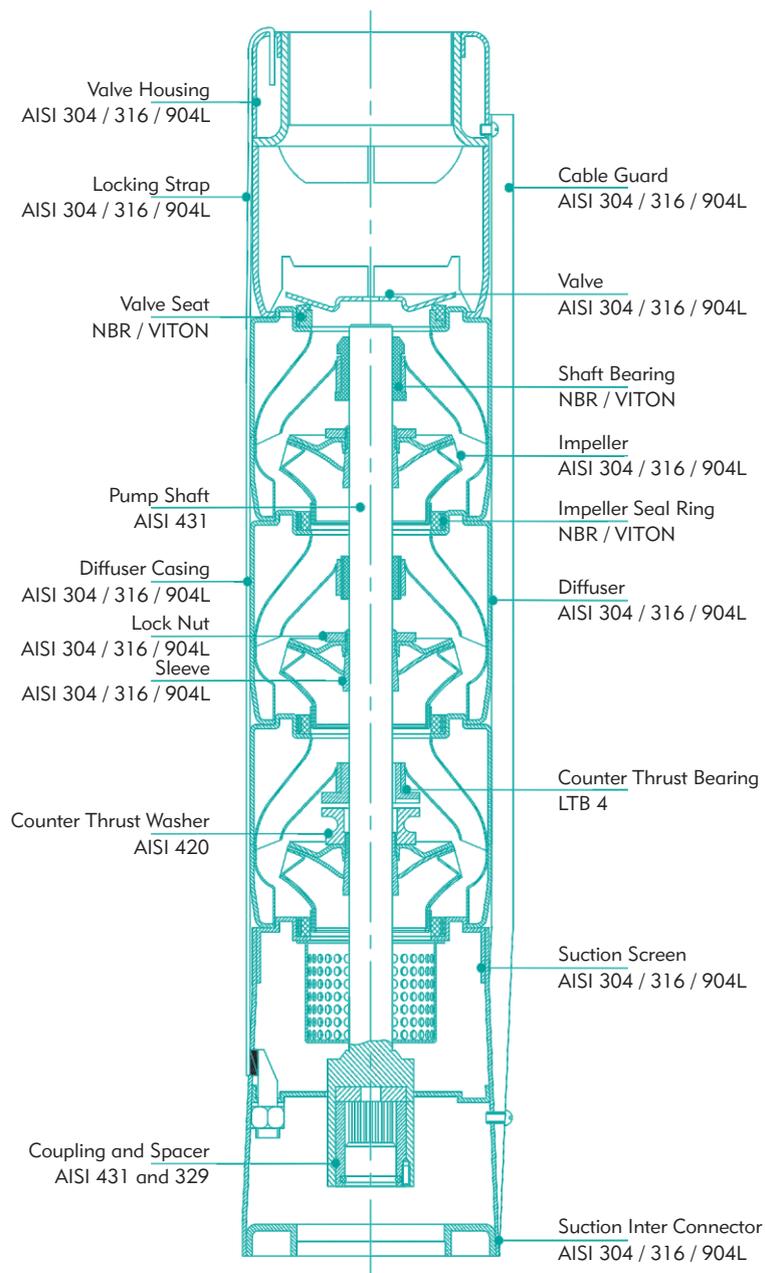


Pump Version - TS = AISI 304 Construction  
 Pump Version - TN = AISI 316 Construction  
 Pump version - TL = AISI 904L Construction  
 NEMA mounting dimensions.

## CONSTRUCTIONAL DATA

**30 - 60 m<sup>3</sup>/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.

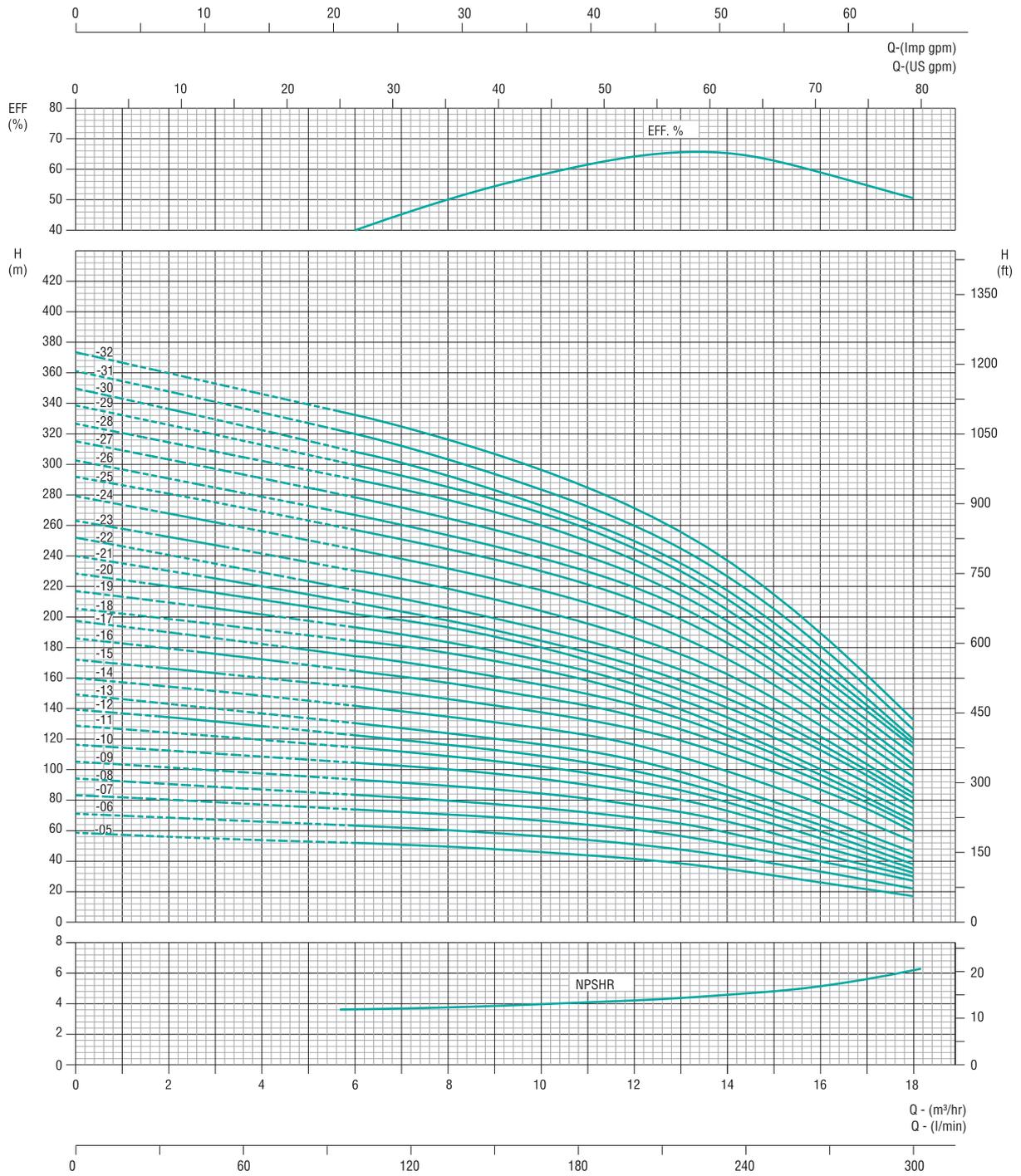
# PERFORMANCE CURVES

## TS / TN / TL SERIES > 6" > 14 m<sup>3</sup>/hr

Model : **TS150-14**

Outlet Size : **2" / 2½"**

**2900 rpm**



Curve tolerance according to ISO 9906:2012, Grade 3B

## PERFORMANCE DATA

### TS / TN / TL SERIES > 6" > 14 m<sup>3</sup>/hr

Model : **TS150-14**

Outlet Size : **2" / 2½"**

**2900 rpm**

Pump Model*	Power		lpm m <sup>3</sup> /hr	0	66.6	100	133.3	166.6	200	233.3	266.6	300
	kW	HP		0	4	6	8	10	12	14	16	18
TS150-14-05	3	4	Total Dynamic Head in Meters	59	54	52	50	46	42	35	26	17
TS150-14-06	3	4		70	66	64	60	56	52	44	33	22
TS150-14-07	3.7	5		82	77	74	71	67	60	52	40	28
TS150-14-08	4	5.5		94	87	84	80	75	68	59	45	31
TS150-14-09	5.5	7.5		104	97	93	90	84	77	66	50	33
TS150-14-10	5.5	7.5		118	108	104	100	94	85	72	56	36
TS150-14-11	5.5	7.5		130	120	115	108	102	92	79	60	38
TS150-14-12	7.5	10		140	128	123	116	109	99	84	64	42
TS150-14-13	7.5	10		150	137	130	124	116	107	88	68	46
TS150-14-14	7.5	10		160	148	142	135	127	116	99	78	53
TS150-14-15	7.5	10		172	160	153	146	137	127	109	87	60
TS150-14-16	9.3	12.5		184	172	164	156	147	135	116	92	64
TS150-14-17	9.3	12.5		196	183	174	166	156	143	123	96	67
TS150-14-18	9.3	12.5		204	192	184	176	166	150	128	100	71
TS150-14-19	9.3	12.5		218	202	189	184	172	156	135	107	75
TS150-14-20	11	15		228	211	202	191	179	163	140	112	79
TS150-14-21	11	15		240	220	209	197	184	168	147	116	83
TS150-14-22	11	15		254	229	219	205	192	176	153	121	90
TS150-14-23	11	15		262	242	236	217	204	186	163	129	96
TS150-14-24	11	15		280	256	244	232	217	199	172	136	96
TS150-14-25	13	17.5		290	269	257	244	230	211	183	144	100
TS150-14-26	13	17.5		302	279	267	254	239	220	190	150	104
TS150-14-27	13	17.5		316	292	278	265	248	228	197	156	110
TS150-14-28	13	17.5		324	302	290	276	260	237	204	161	116
TS150-14-29	13	17.5		338	312	300	285	268	244	212	168	118
TS150-14-30	15	20		350	323	308	292	275	252	218	172	120
TS150-14-31	15	20		360	334	320	304	284	260	227	180	127
TS150-14-32	15	20		374	346	332	316	296	272	236	189	132

\* 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*	Power		Dimensions in mm			Nett Weight (kg)
	kW	HP	D <sub>1</sub>	D <sub>2</sub>	H	
TS150-14-05	3	4	139	-	491	11.0
TS150-14-06	3	4	139	-	530	11.90
TS150-14-07	3.7	5	139	-	569	12.80
TS150-14-08	4	5.5	139	-	608	13.70
TS150-14-09	5.5	7.5	139	-	647	14.60
TS150-14-10	5.5	7.5	139	143	686	15.50
TS150-14-11	5.5	7.5	139	143	725	16.40
TS150-14-12	7.5	10	139	143	764	17.30
TS150-14-13	7.5	10	139	143	803	18.20
TS150-14-14	7.5	10	139	143	842	19.10
TS150-14-15	7.5	10	139	143	881	20.00
TS150-14-16	9.3	12.5	139	143	920	21.00
TS150-14-17	9.3	12.5	139	143	959	22.00
TS150-14-18	9.3	12.5	139	143	998	23.00
TS150-14-19	9.3	12.5	139	143	1037	23.80
TS150-14-20	11	15	139	143	1076	24.50
TS150-14-21	11	15	139	143	1115	25.50
TS150-14-22	11	15	139	143	1154	26.30
TS150-14-23	11	15	139	143	1193	27.20
TS150-14-24	11	15	139	143	1232	28.10
TS150-14-25	13	17.5	139	143	1271	29.00
TS150-14-26	13	17.5	139	143	1310	30.00
TS150-14-27	13	17.5	139	143	1349	30.80
TS150-14-28	13	17.5	139	143	1388	31.70
TS150-14-29	13	17.5	139	143	1427	32.6
TS150-14-30	15	20	139	143	1466	33.50
TS150-14-31	15	20	139	143	1505	34.40
TS150-14-32	15	20	139	143	1544	35.30

Pump Height(H) and Weight(Kg) are approximate.  
All performance data is based on rated input.

D1 - Outer diameter of pump-end suitable for D.O.L motors.  
D2 - Outer diameter of pump-end suitable for S.D motors.



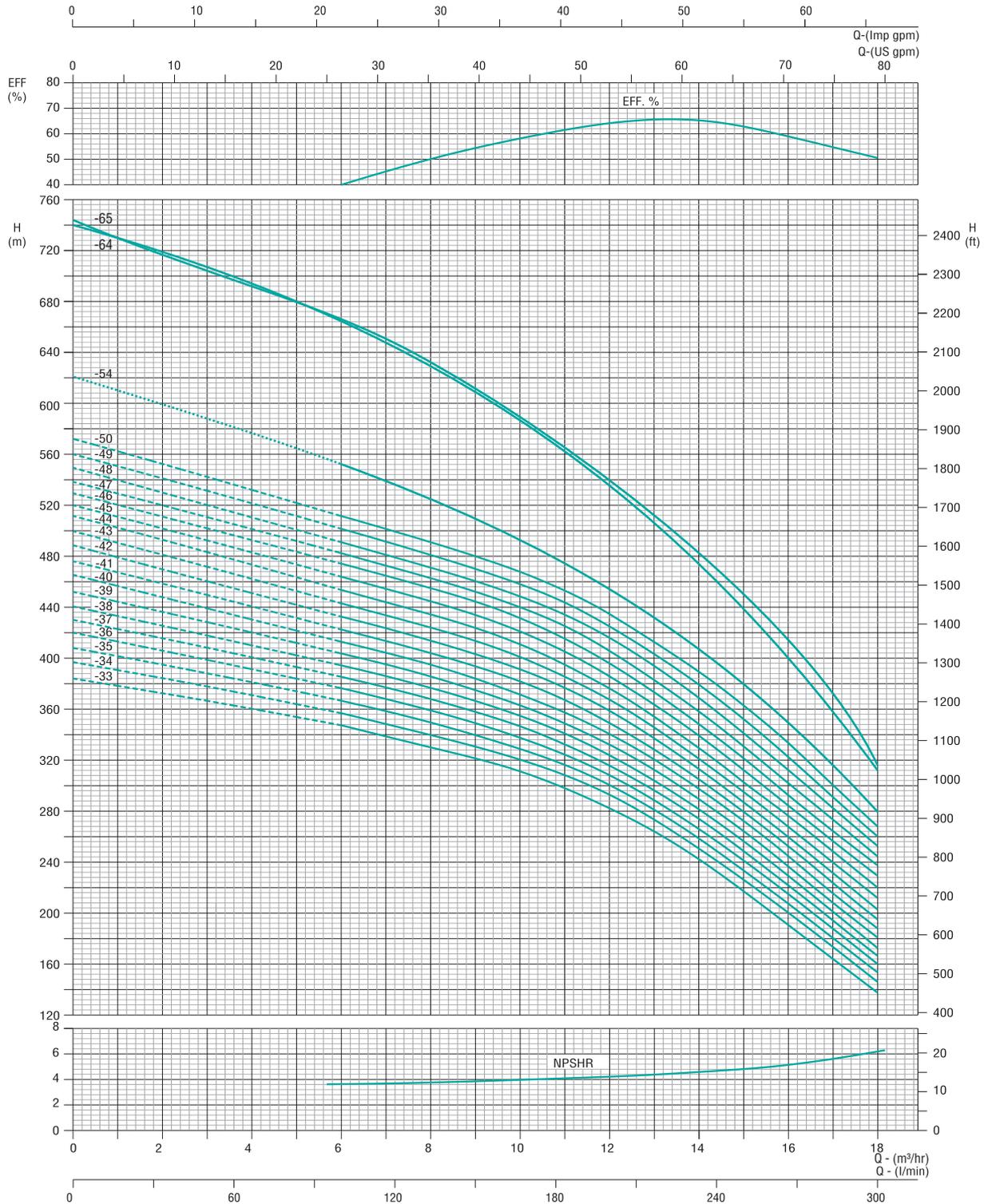
# PERFORMANCE CURVES

## TS / TN / TL SERIES > 6" > 14 m<sup>3</sup>/hr

Model : **TS150-14**

Outlet Size : **2" / 2½"**

**2900 rpm**



Curve tolerance according to ISO 9906:2012, Grade 3B

## PERFORMANCE DATA

### TS / TN / TL SERIES > 6" > 14 m<sup>3</sup>/hr

Model : **TS150-14**

Outlet Size : **2" / 2½"**

**2900 rpm**

Pump Model*	Power		lpm m <sup>3</sup> /hr	0	66.6	100	133.3	166.6	200	233.3	266.6	300
	kW	HP		0	4	6	8	10	12	14	16	18
TS150-14-33	15	20	Total Dynamic Head in Meters	384	350	346	330	310	282	242	192	138
TS150-14-34	18.5	25		396	372	356	340	320	292	251	200	145
TS150-14-35	18.5	25		408	382	367	349	329	300	259	208	154
TS150-14-36	18.5	25		420	392	376	359	337	308	267	216	160
TS150-14-37	18.5	25		430	401	385	368	347	316	275	222	167
TS150-14-38	18.5	25		440	413	395	376	355	324	281	229	172
TS150-14-39	18.5	25		454	420	404	386	363	332	289	237	180
TS150-14-40	18.5	25		464	431	412	395	372	340	298	244	188
TS150-14-41	18.5	25		476	440	422	404	382	348	305	253	195
TS150-14-42	18.5	25		488	451	432	413	391	359	313	260	203
TS150-14-43	22	30		500	462	443	424	400	368	320	268	212
TS150-14-44	22	30		510	473	453	434	411	376	329	276	220
TS150-14-45	22	30		520	483	464	444	420	386	340	284	230
TS150-14-46	22	30		528	492	474	455	432	396	348	292	238
TS150-14-47	22	30		538	501	483	463	440	405	358	302	244
TS150-14-48	22	30		550	511	491	471	448	416	368	312	252
TS150-14-49	22	30		560	522	501	481	458	424	380	322	260
TS150-14-50	22	30		570	532	512	491	468	435	389	333	268
TS150-14-54	26	35		620	576	552	515	494	455	408	350	280
TS150-14-64	45	60		740	690	665	628	585	535	476	400	312
TS150-14-65	45	60	755	690	670	634	590	540	480	417	318	

\* 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*	Power		Dimensions in mm			Nett Weight (kg)
	kW	HP	D <sub>1</sub>	D <sub>2</sub>	H	
TS150-14-33	15	20	139	143	1583	36.50
TS150-14-34	18.5	25	139	143	1622	37.00
TS150-14-35	18.5	25	139	143	1661	38.00
TS150-14-36	18.5	25	139	143	1700	39.00
TS150-14-37	18.5	25	139	143	1739	40.00
TS150-14-38	18.5	25	139	143	1778	40.50
TS150-14-39	18.5	25	139	143	1817	41.50
TS150-14-40	18.5	25	139	143	1856	42.50
TS150-14-41	18.5	25	139	143	1895	43.50
TS150-14-42	18.5	25	139	143	1934	44.50
TS150-14-43	22	30	139	143	1973	45.00
TS150-14-44	22	30	139	143	2012	46.00
TS150-14-45	22	30	139	143	2051	47.00
TS150-14-46	22	30	139	143	2090	48.00
TS150-14-47	22	30	139	143	2129	49.00
TS150-14-48	22	30	139	143	2168	50.00
TS150-14-49	22	30	139	143	2207	50.50
TS150-14-50	22	30	139	143	2246	51.50
TS150-14-54	26	35	139	143	2402	57.50
TS150-14-65	45	60	139	143	2792	70.00
TS150-14-65	45	60	139	143	2836	70.48

Pump Height(H) and Weight(Kg) are approximate.

D1 - Outer diameter of pump-end suitable for D.O.L motors.  
 D2 - Outer diameter of pump-end suitable for S.D motors.

All performance data is based on rated input.



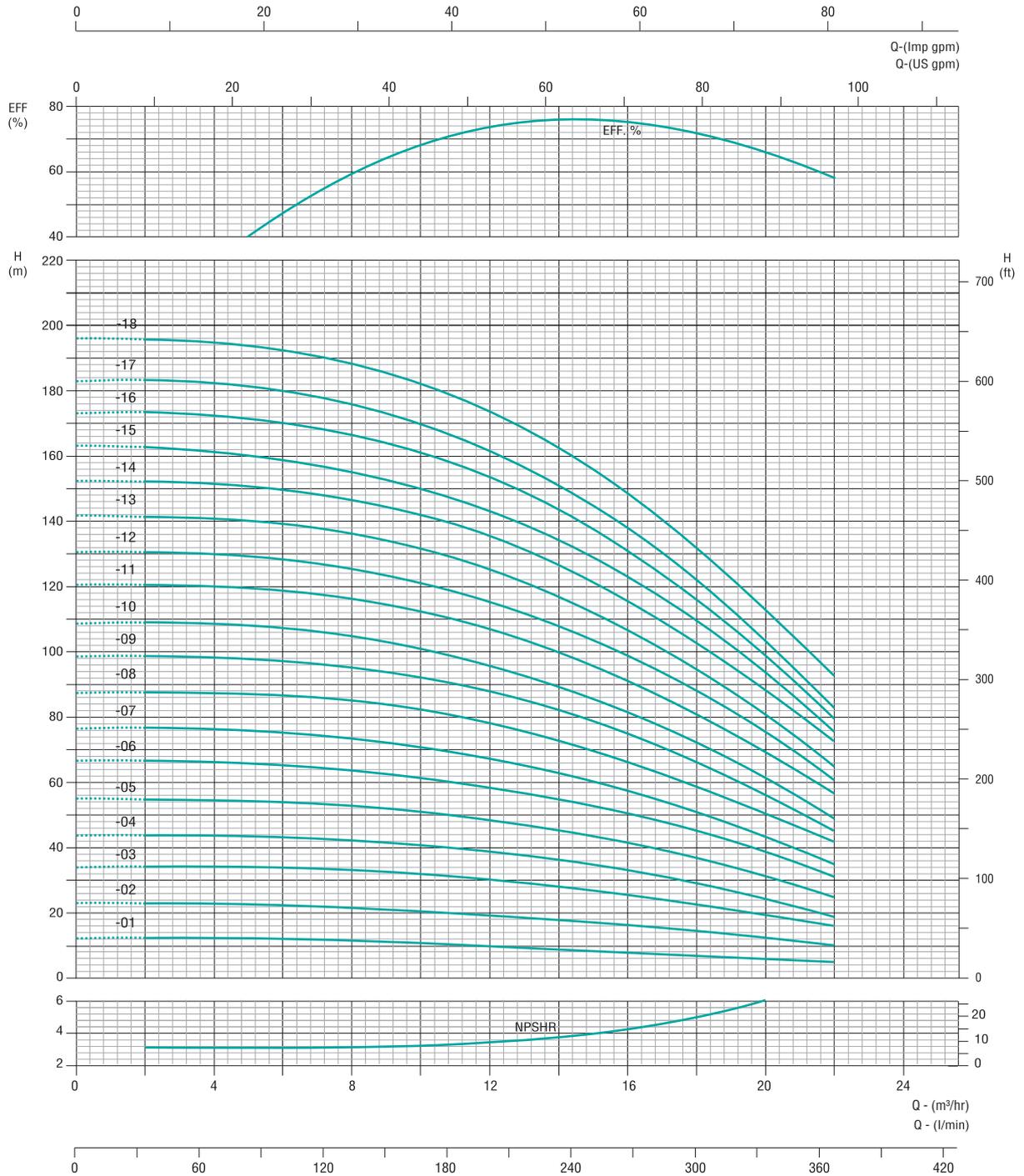
# PERFORMANCE CURVES

## TS / TN / TL SERIES > 6" > 17 m<sup>3</sup>/hr

Model : **TS150-17**

Outlet Size : **2½"/3"**

**2900 rpm**



Curve tolerance according to ISO 9906:2012, Grade 3B

## PERFORMANCE DATA

### TS / TN / TL SERIES > 6" > 17 m<sup>3</sup>/hr

Model : **TS150-17**

Outlet Size : **2½"/3"**

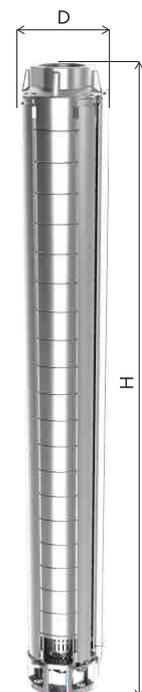
**2900 rpm**

Pump Model*	Power		lpm m <sup>3</sup> /hr	0	66.6	100	183.5	233.4	256.2	333	433.2
	kW	HP		0	4	6	10	14	17	20	22
TS150-17-1	0.55	0.75	Total Dynamic Head in Meters	11	10.75	10.75	10	8	6	5	4
TS150-17-2	1.1	1.5		22	21	20	19	17	14	11	9
TS150-17-3	2.2	3		33	32	31	30	27	23	18	15
TS150-17-4	2.2	3		43	42	41	40	35	30	24	18
TS150-17-5	3	4		54	53	52.2	50	44	38	30	24
TS150-17-6	4	5.5		66	65	64	60	53	47	37	30
TS150-17-7	4	5.5		76	76	75	70	62	53	43	34
TS150-17-8	5.5	7.5		87	86	85	81	72	62	50	41
TS150-17-9	5.5	7.5		98	97	96	91	81	70	56	45
TS150-17-10	5.5	7.5		108	107	106	101	88	77	61	49
TS150-17-11	7.5	10		120	119	118	112	99	86	70	56
TS150-17-12	7.5	10		130	129	128	121	108	93	75	60
TS150-17-13	7.5	10		141	140	139	131	116	100	81	64
TS150-17-14	9.3	12.5		152	151	150	142	126	110	88	71
TS150-17-15	9.3	12.5		163	162	161	151	134	116	94	75
TS150-17-16	9.3	12.5		172	172	171	161	143	123	99	79
TS150-17-17	9.3	12.5		182	182	180	170	150	130	104	82
TS150-17-18	11	15		196	194	193	182	162	140	113	92

\* 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*	Power		Dimensions in mm			Nett Weight (kg)
	kW	HP	D <sub>1</sub>	D <sub>2</sub>	H	
TS150-17-1	0.55	0.75	134	-	342	5.5
TS150-17-2	1.1	1.5	134	-	403	7.3
TS150-17-3	2.2	3	134	-	463	7.1
TS150-17-4	2.2	3	134	-	526	9.1
TS150-17-5	3	4	134	-	584	10
TS150-17-6	4	5.5	134	-	645	11
TS150-17-7	4	5.5	134	-	705	13
TS150-17-8	5.5	7.5	134	-	706	14
TS150-17-9	5.5	7.5	134	-	826	16
TS150-17-10	5.5	7.5	134	-	887	17
TS150-17-11	7.5	10	134	-	947	19
TS150-17-12	7.5	10	134	-	1008	21
TS150-17-13	7.5	10	134	-	1068	22
TS150-17-14	9.3	12.5	142	144	1129	23.5
TS150-17-15	9.3	12.5	142	144	1189	24.5
TS150-17-16	9.3	12.5	142	144	1250	25.5
TS150-17-17	9.3	12.5	142	144	1310	26.5
TS150-17-18	11	15	142	144	1371	27.5



Pump Height(H) and Weight(Kg) are approximate.

D1 - Outer diameter of pump-end suitable for D.O.L motors.  
 D2 - Outer diameter of pump-end suitable for S.D motors.

All performance data is based on rated input.

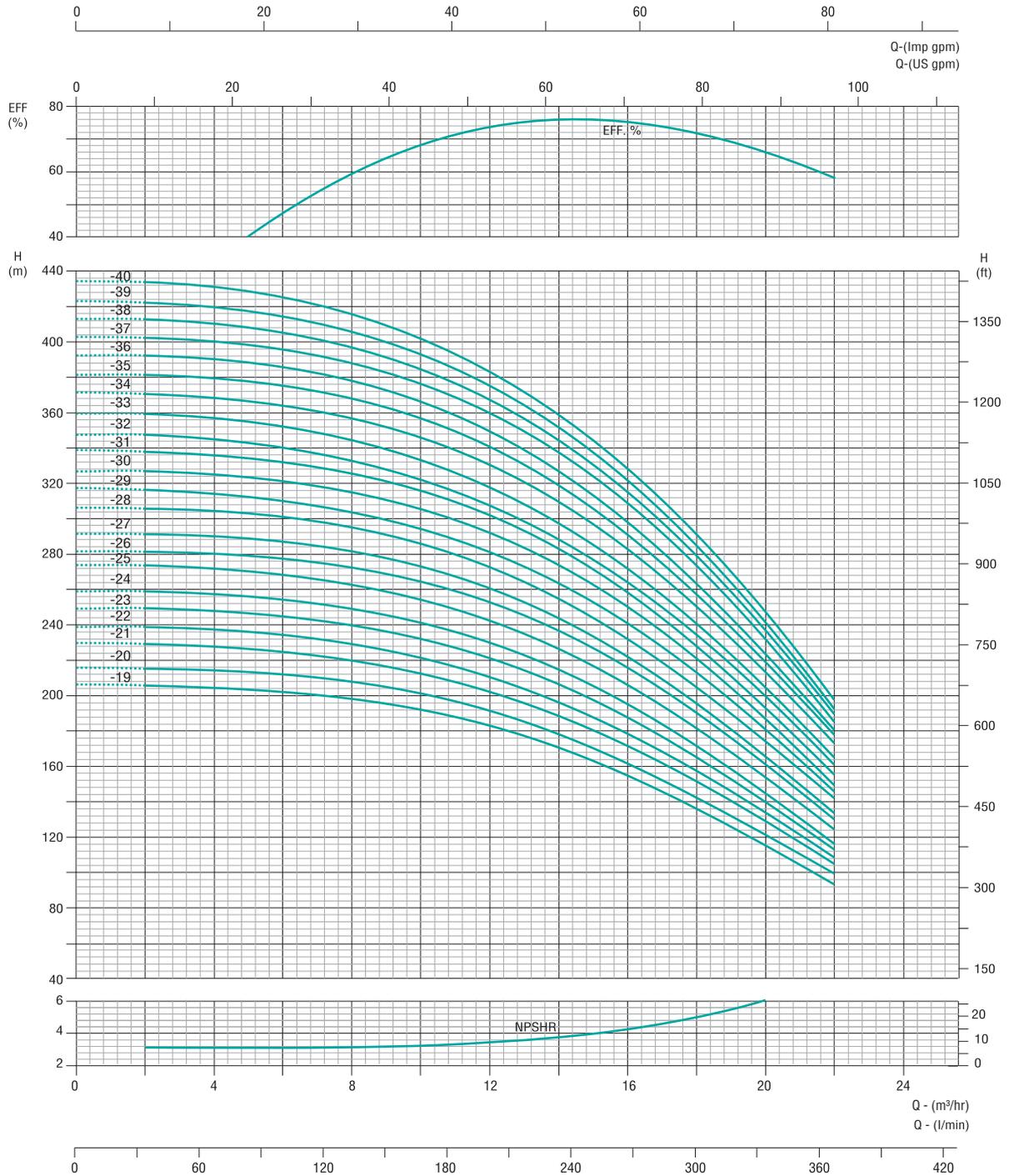
# PERFORMANCE CURVES

## TS / TN / TL SERIES > 6" > 17 m<sup>3</sup>/hr

Model : **TS150-17**

Outlet Size : **2½"/3"**

**2900 rpm**



Curve tolerance according to ISO 9906:2012, Grade 3B

## PERFORMANCE DATA

### TS / TN / TL SERIES > 6" > 17 m<sup>3</sup>/hr

Model : **TS150-17**

Outlet Size : **2½"/3"**

**2900 rpm**

Pump Model*	Power		lpm m <sup>3</sup> /hr	0	66.6	100	183.5	233.4	256.2	333	433.2
	kW	HP		0	4	6	10	14	17	20	22
TS150-17-19	11	15	Total Dynamic Head in Meters	206	204	203	192	169	146	117	94
TS150-17-20	11	15		215	213	212	201	178	153	123	97
TS150-17-21	13	17.5		229	227	224	213	189	165	133	107
TS150-17-22	13	17.5		239	238	235	223	197	171	137	110
TS150-17-23	13	17.5		249	248	244	233	205	178	143	113
TS150-17-24	13	17.5		259	258	255	242	212	184	147	116
TS150-17-25	15	20		272	271	269	253	224	195	157	126
TS150-17-26	15	20		281	280	278	263	233	203	162	131
TS150-17-27	15	20		292	291	288	272	242	208	167	134
TS150-17-28	18.5	25		306	304	301	286	255	223	179	146
TS150-17-29	18.5	25		316	314	311	295	263	230	184	148
TS150-17-30	18.5	25		327	325	321	306	272	236	191	151
TS150-17-31	18.5	25		338	335	332	314	280	243	196	157
TS150-17-32	18.5	25		347	346	341	324	289	251	201	161
TS150-17-33	18.5	25		358	356	352	334	296	257	206	166
TS150-17-34	22	30		371	369	367	347	308	269	215	175
TS150-17-35	22	30		380	378	377	357	317	274	220	178
TS150-17-36	22	30		391	389	387	366	325	281	225	181
TS150-17-37	22	30		401	399	396	374	339	288	233	185
TS150-17-38	22	30		411	408	406	385	341	295	237	188
TS150-17-39	22	30	422	419	416	393	349	301	243	191	
TS150-17-40	22	30	433	429	427	403	358	308	246	198	

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

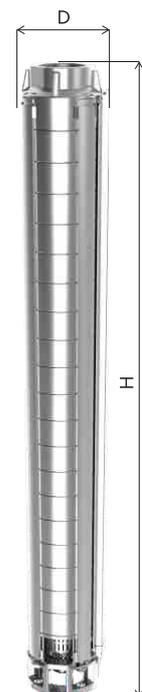
### Nett Weights & Dimensions

Pump Model*	Power		Dimensions in mm			Nett Weight (kg)
	kW	HP	D <sub>1</sub>	D <sub>2</sub>	H	
TS150-17-19	11	15	142	144	1431	29.5
TS150-17-20	11	15	142	144	1492	31.5
TS150-17-21	13	17.5	142	144	1552	33.5
TS150-17-22	13	17.5	142	144	1613	34.5
TS150-17-23	13	17.5	142	144	1673	35.5
TS150-17-24	13	17.5	142	144	1734	37.5
TS150-17-25	15	20	142	144	1794	38.5
TS150-17-26	15	20	142	144	1855	39.5
TS150-17-27	15	20	142	144	1915	41.5
TS150-17-28	18.5	25	142	144	1916	43
TS150-17-29	18.5	25	142	144	2036	44
TS150-17-30	18.5	25	142	144	2097	45
TS150-17-31	18.5	25	142	144	2157	47
TS150-17-32	18.5	25	142	144	2218	48
TS150-17-33	18.5	25	142	144	2278	50
TS150-17-34	22	30	142	144	2334	51
TS150-17-35	22	30	142	144	2394	52
TS150-17-36	22	30	142	144	2460	54
TS150-17-37	22	30	142	144	2520	55
TS150-17-38	22	30	142	144	2381	56
TS150-17-39	22	30	142	144	2641	58
TS150-17-40	22	30	142	144	2702	59

Pump Height(H) and Weight(Kg) are approximate.

D1 - Outer diameter of pump-end suitable for D.O.L motors.  
 D2 - Outer diameter of pump-end suitable for S.D motors.

All performance data is based on rated input.



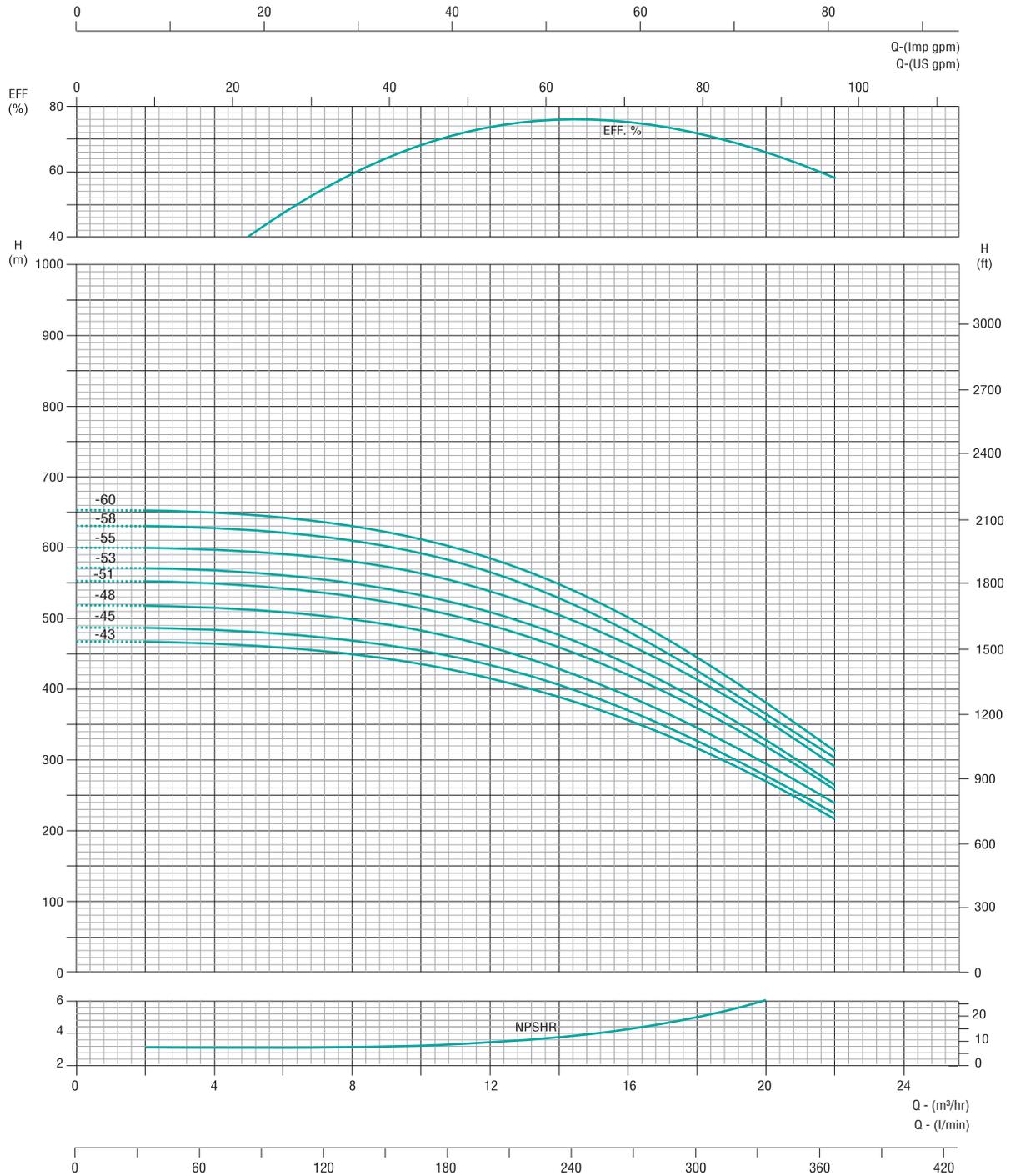
# PERFORMANCE CURVES

## TS / TN / TL SERIES > 6" > 17 m<sup>3</sup>/hr

Model : **TS150-17**

Outlet Size : **2½"/3"**

**2900 rpm**



Curve tolerance according to ISO 9906:2012, Grade 3B

## PERFORMANCE DATA

### TS / TN / TL SERIES > 6" > 17 m<sup>3</sup>/hr

Model : **TS150-17**

Outlet Size : **2½"/3"**

**2900 rpm**

Pump Model*	Power		lpm m <sup>3</sup> /hr	0	66.6	100	183.5	233.4	256.2	333	433.2
	kW	HP		0	4	6	10	14	17	20	22
TS150-17-43	26	35	Total Dynamic Head in Meters	495	467	461	437	388	338	272	217
TS150-17-45	26	35		487	485	481	456	405	349	281	226
TS150-17-48	26	35		518	516	511	484	427	369	298	238
TS150-17-51	30	40		551	547	543	514	456	398	320	256
TS150-17-53	30	40		570	568	563	534	474	408	330	263
TS150-17-55	37	50		599	587	592	563	502	437	358	289
TS150-17-58	37	50		631	629	622	592	527	458	362	302
TS150-17-60	37	50		651	649	640	611	544	474	386	310

\* 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*	Power		Dimensions in mm			Nett Weight (kg)
	kW	HP	D <sub>1</sub>	D <sub>2</sub>	H	
TS150-17-43	26	35	142	144	2883	94.5
TS150-17-45	26	35	142	144	3004	97.5
TS150-17-48	26	35	142	144	3186	103.5
TS150-17-51	30	40	142	144	3367	108.5
TS150-17-53	30	40	142	144	3488	111.5
TS150-17-55	37	50	142	144	3609	114
TS150-17-58	37	50	142	144	3791	120
TS150-17-60	37	50	142	144	3912	123

Pump Height(H) and Weight(Kg) are approximate.

D1 - Outer diameter of pump-end suitable for D.O.L motors.  
 D2 - Outer diameter of pump-end suitable for S.D motors.



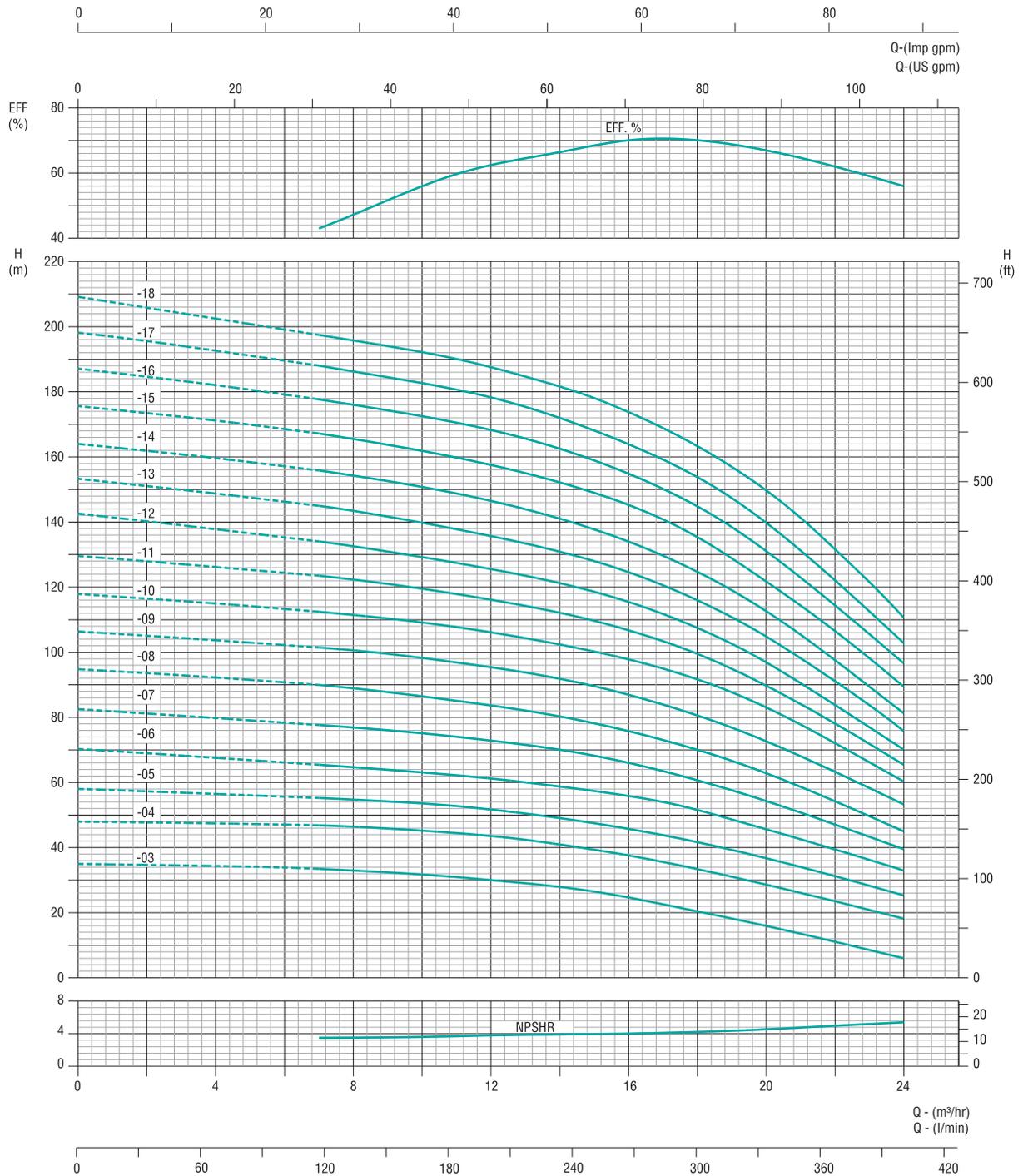
# PERFORMANCE CURVES

## TS / TN / TL SERIES > 6" > 18 m<sup>3</sup>/hr

Model : **TS150-18**

Outlet Size : **2½"**

**2900 rpm**



Curve tolerance according to ISO 9906:2012, Grade 3B

## PERFORMANCE DATA

### TS / TN / TL SERIES > 6" > 18 m<sup>3</sup>/hr

Model : **TS150-18**

Outlet Size : **2½"**

**2900 rpm**

Pump Model*	Power		lpm m <sup>3</sup> /hr	0	100	133.3	166.6	200	233.3	266.6	300	333.3	366.6	400
	kW	HP		0	6	8	10	12	14	16	18	20	22	24
TS150-18-03	2.2	3	Total Dynamic Head in Meters	35	37.5	33	32	30	18	25	20	16	11	6
TS150-18-04	3	4		48	47	46	45	44	41	38	33.5	29	24	18
TS150-18-05	4	5.5		58	56	55	54	52	49	46	42	37	31	25.5
TS150-18-06	4	5.5		70	66	65	63	61	59	56	52	46	40	33
TS150-18-07	5.5	7.5		82	78	77	75	73	70	66	61	54	47	40
TS150-18-08	5.5	7.5		95	91	89	86	84	80	76	70	63	54	45
TS150-18-09	7.5	10		106	102	100	98	96	92	87	80	72.5	63	54
TS150-18-10	7.5	10		118	103	111.5	109	106	102	98	92	83	72	60
TS150-18-11	9.3	12.5		130	125	122	119	116	112	107	100	90	78	66
TS150-18-12	9.3	12.5		142	135.5	133	130	126	122	116	108	97	84	70
TS150-18-13	9.3	12.5		152	146	144	140	136	131	124	116	105	91	76
TS150-18-14	9.3	12.5		164	157	154	151	146.5	141	134	124	112	98	82
TS150-18-15	11	15		175	169	166	162	158	152	145.5	136	122	106	90
TS150-18-16	11	15		188	179	176	172	168	162	155	145	131	104	97
TS150-18-17	13	17.5		198	190	186	183	178	172	164	154	140	122	103
TS150-18-18	13	17.5		209	199	196	192	188	182	174	164	150	132	111

\* 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*	Power		Dimensions in mm			Nett Weight (kg)
	kW	HP	D <sub>1</sub>	D <sub>2</sub>	H	
TS150-18-03	2.2	3	139	-	427	10
TS150-18-04	3	4	139	-	471	11
TS150-18-05	4	5.5	139	-	515	12
TS150-18-06	4	5.5	139	-	559	13
TS150-18-07	5.5	7.5	139	-	603	14
TS150-18-08	5.5	7.5	139	143	647	15
TS150-18-09	7.5	10	139	143	691	16
TS150-18-10	7.5	10	139	143	735	17
TS150-18-11	9.3	12.5	139	143	779	18
TS150-18-12	9.3	12.5	139	143	823	19
TS150-18-13	9.3	12.5	139	143	867	20
TS150-18-14	9.3	12.5	139	143	911	21
TS150-18-15	11	15	139	143	955	22
TS150-18-16	11	15	139	143	999	23
TS150-18-17	13	17.5	139	143	1043	24
TS150-18-18	13	17.5	139	143	1087	25

Pump Height(H) and Weight(Kg) are approximate.

D1 - Outer diameter of pump-end suitable for D.O.L motors.  
D2 - Outer diameter of pump-end suitable for S.D motors.



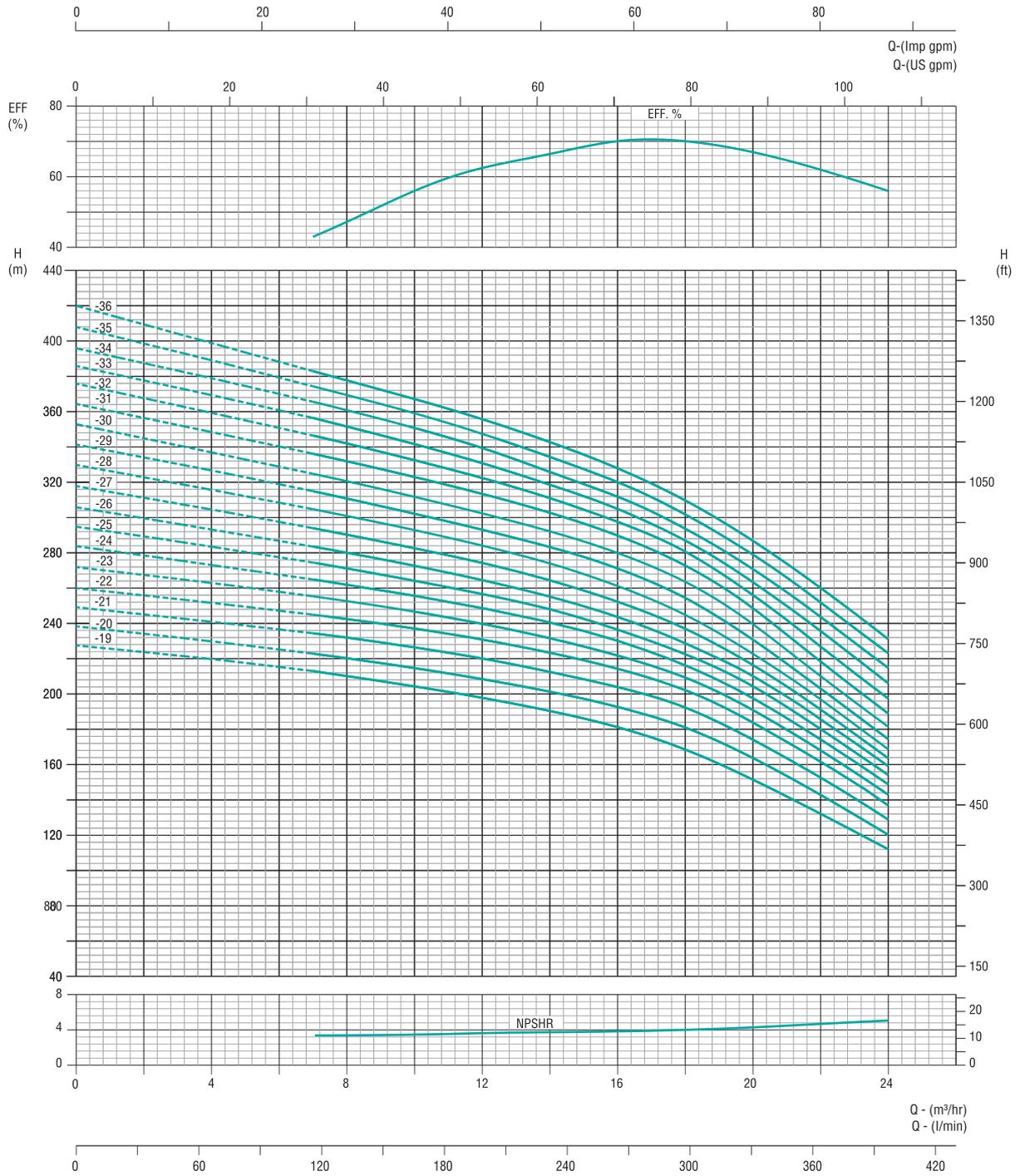
# PERFORMANCE CURVES

## TS / TN / TL SERIES > 6" > 18 m<sup>3</sup>/hr

Model : **TS150-18**

Outlet Size : **2½"**

**2900 rpm**



Curve tolerance according to ISO 9906:2012, Grade 3B

## PERFORMANCE DATA

### TS / TN / TL SERIES > 6" > 18 m<sup>3</sup>/hr

Model : **TS150-18**

Outlet Size : **2½"**

**2900 rpm**

Pump Model*	Power		lpm m <sup>3</sup> /hr	0	100	133.3	166.6	200	233.3	266.6	300	333.3	366.6	400
	kW	HP		0	6	8	10	12	14	16	18	20	22	24
TS150-18-19	13	17.5	Total Dynamic Head in Meters	226	216	210	204	198	190	180	168	152	133	113
TS150-18-20	15	20		238	225	220	215	208	201	192	180	164	144	120
TS150-18-21	15	20		250	236	232	227	220	212	204	192	174	152	129
TS150-18-22	15	20		260	248	242	237	232	224	215	202	184	162	137
TS150-18-23	18.5	25		274	258	252	247	240	232	222	209	191	168	143
TS150-18-24	18.5	25		284	264	262	256	248	240	230	216	197	175	149
TS150-18-25	18.5	25		296	278	271	264	256	248	236	223	204	180	154
TS150-18-26	18.5	25		304	287	280	272	264	256	244	228	210	185	159
TS150-18-27	18.5	25		316	298	290	283	274	264	252	237	216	191	164
TS150-18-28	22	30		330	308	301	292	284	274	261	244	223	197	168
TS150-18-29	22	30		340	319	311	302	292	284	272	255	231	204	175
TS150-18-30	22	30		354	337	329	312	303	292	280	264	240	210	182
TS150-18-31	22	30		364	348	340	323	313	303	290	272	248	219	188
TS150-18-32	22	30		376	360	351	332	323	312	298	280	256	227	198
TS150-18-33	26	35		384	370	361	342	331	320	305	287	264	236	207
TS150-18-34	26	35		396	379	370	351	340	326	312	294	271	244	215
TS150-18-35	26	35		408	389	379	359	348	336	320	302	279	252	223
TS150-18-36	26	35		420	399	388	368	356	343	328	309	287	260	231

\* 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*	Power		Dimensions in mm			Nett Weight (kg)
	kW	HP	D <sub>1</sub>	D <sub>2</sub>	H	
TS150-18-19	13	17.5	139	143	1131	26
TS150-18-20	15	20	139	143	1175	27
TS150-18-21	15	20	139	143	1219	28
TS150-18-22	15	20	139	143	1263	29
TS150-18-23	18.5	25	139	143	1307	30
TS150-18-24	18.5	25	139	143	1351	31
TS150-18-25	18.5	25	139	143	1395	32
TS150-18-26	18.5	25	139	143	1439	33
TS150-18-27	18.5	25	139	143	1483	33
TS150-18-28	22	30	139	143	1527	34
TS150-18-29	22	30	139	143	1571	35
TS150-18-30	22	30	139	143	1615	36
TS150-18-31	22	30	139	143	1659	37
TS150-18-32	22	30	139	143	1703	38
TS150-18-33	26	35	139	143	1747	39
TS150-18-34	26	35	139	143	1791	40
TS150-18-35	26	35	139	143	1835	41
TS150-18-36	26	35	139	143	1879	42

Pump Height(H) and Weight(Kg) are approximate.

D1 - Outer diameter of pump-end suitable for D.O.L motors.  
D2 - Outer diameter of pump-end suitable for S.D motors.



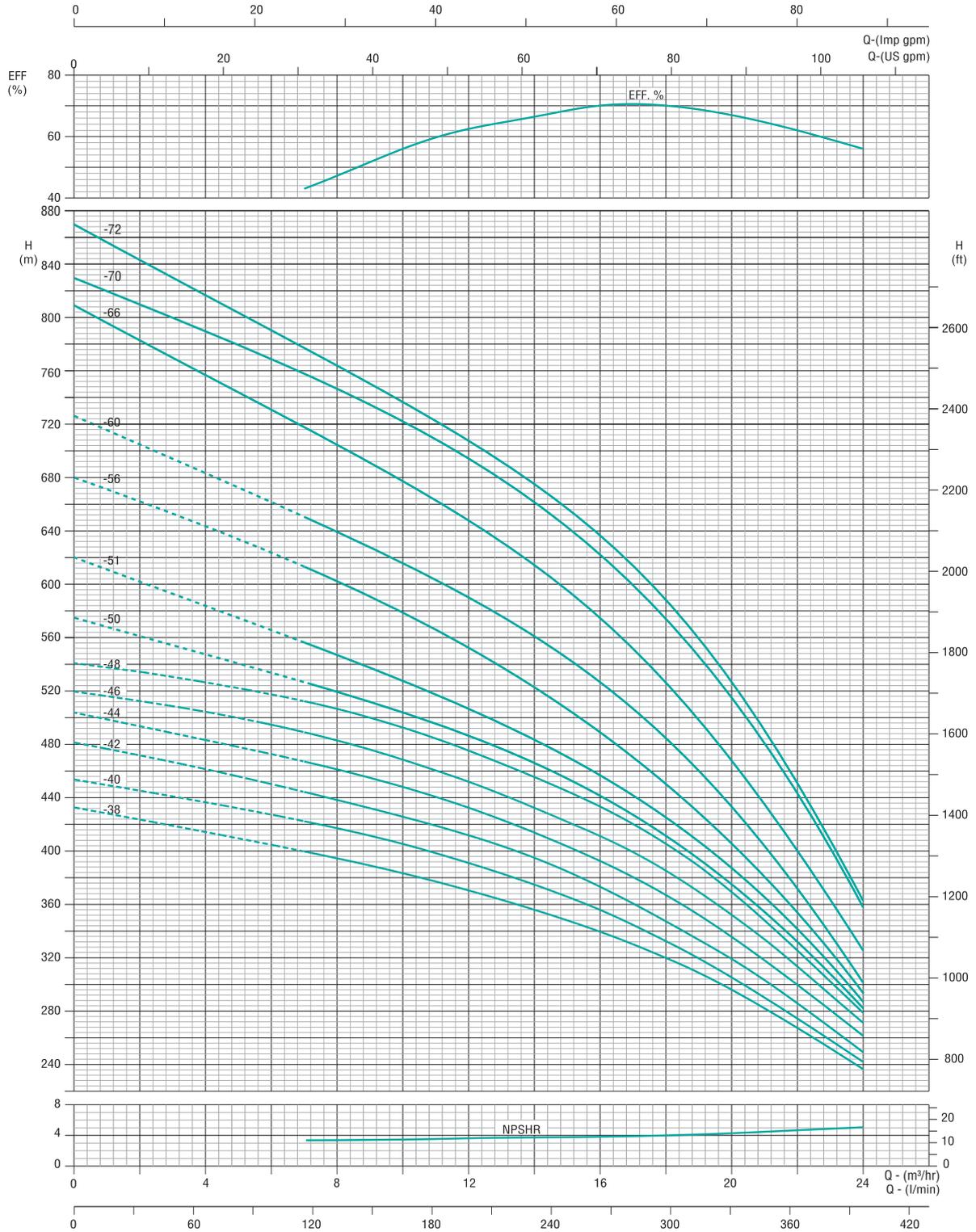
# PERFORMANCE CURVES

## TS / TN / TL SERIES > 6" > 18 m<sup>3</sup>/hr

Model : **TS150-18**

Outlet Size : **2½"**

**2900 rpm**



Curve tolerance according to ISO 9906:2012, Grade 3B

## PERFORMANCE DATA

### TS / TN / TL SERIES > 6" > 18 m<sup>3</sup>/hr

Model : **TS150-18**

Outlet Size : **2½"**

**2900 rpm**

Pump Model*	Power		lpm m <sup>3</sup> /hr	0	100	133.3	166.6	200	233.3	266.6	300	333.6	366.6	400
	kW	HP		0	6	8	10	12	14	16	18	20	22	24
TS150-18-38	26	35	Total Dynamic Head in Meters	432	404	392	384	370	356	340	320	296	268	236
TS150-18-40	30	40		453	427	416	405	391	375	356	332	305	274	244
TS150-18-42	30	40		481	450	438	425	412	395	370	348	320	286	249
TS150-18-44	30	40		504	472	460	448	432	413	392	367	336	300	262
TS150-18-46	30	40		520	495	482	468	452	432	411	386	352	312	272
TS150-18-48	37	50		541	517	506	492	475	456	433	405	368	324	279
TS150-18-50	37	50		575	533	519	503	485	465	441	412	376	330	282
TS150-18-51	37	50		620	567	547	525	506	482	457	426	387	340	287
TS150-18-56	45	60		680	623	601	577	552	523	490	452	406	353	293
TS150-18-60	45	60		726	662	639	614	590	560	527	485	434	373	301
TS150-18-66	45	60		809	730	705	678	652	615	578	525	472	398	325
TS150-18-70-8	55	75		830	770	745	720	690	660	620	578	513	438	355
TS150-18-72-8	55	75		870	790	764	738	708	675	638	590	528	448	363

\* 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*	Power		Dimensions in mm			Nett Weight (kg)
	kW	HP	D <sub>1</sub>	D <sub>2</sub>	H	
TS150-18-38	26	35	139	143	1967	44
TS150-18-40	30	40	139	143	2055	46
TS150-18-42	30	40	139	143	2143	48
TS150-18-44	30	40	139	143	2231	50
TS150-18-46	30	40	139	143	2339	52
TS150-18-48	37	50	139	143	2407	54
TS150-18-50	37	50	139	143	2563	58
TS150-18-51	37	50	139	143	2603	61
TS150-18-56	45	60	139	143	2823	63
TS150-18-60	45	60	139	143	2979	68
TS150-18-66	45	60	139	143	3243	76
TS 150-18-70-8	55	75	139	143	3440	80
TS 150-18-72-8	55	75	139	143	3540	83

Pump Height(H) and Weight(Kg) are approximate.

D1 - Outer diameter of pump-end suitable for D.O.L motors.  
 D2 - Outer diameter of pump-end suitable for S.D motors.

All performance data is based on rated input.



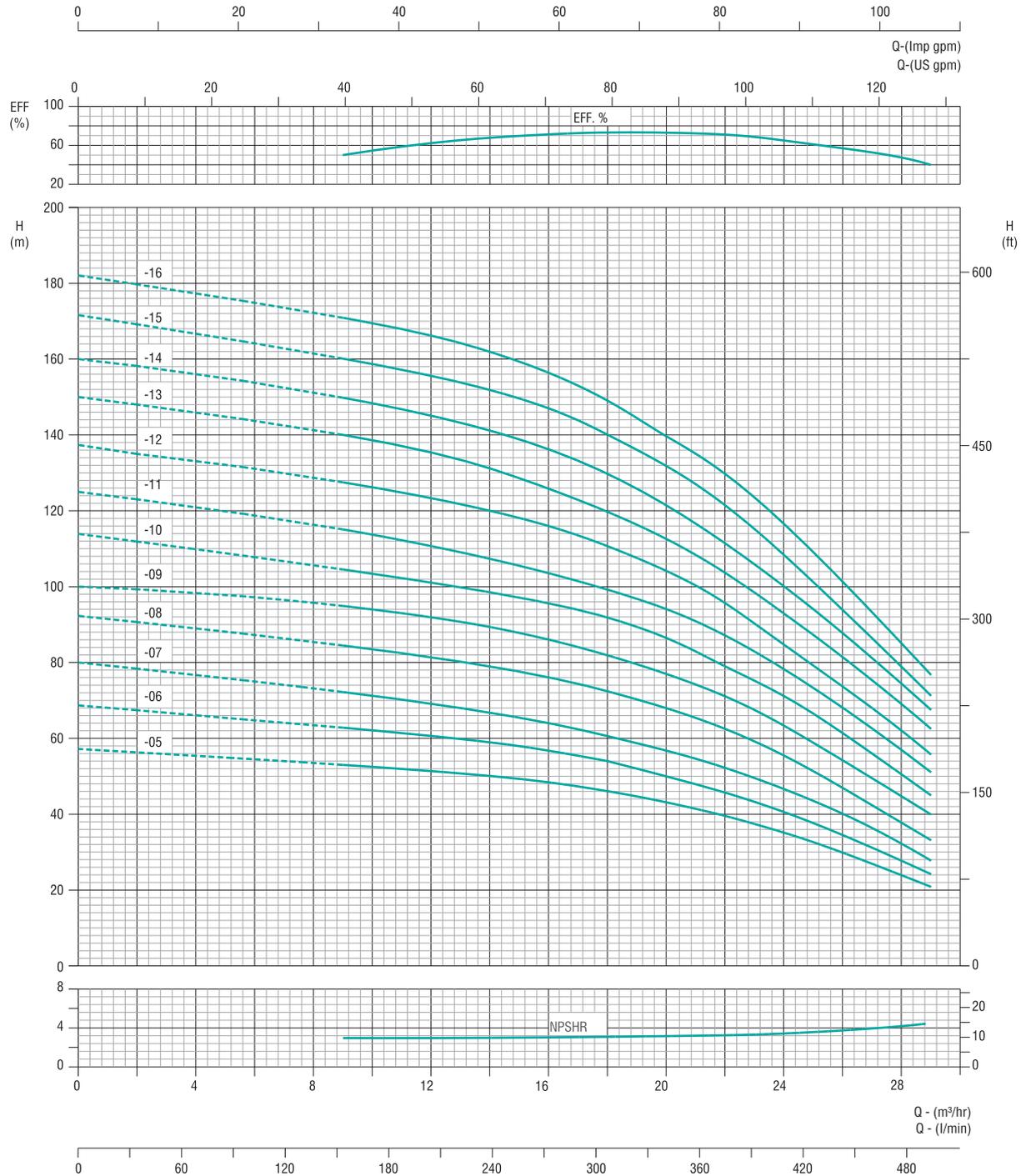
# PERFORMANCE CURVES

## TS / TN / TL SERIES > 6" > 22 m<sup>3</sup>/hr

Model : **TS150-22**

Outlet Size : **2½" / 3"**

**2900 rpm**



Curve tolerance according to ISO 9906:2012, Grade 3B

## PERFORMANCE DATA

### TS / TN / TL SERIES > 6" > 22 m<sup>3</sup>/hr

Model : **TS150-22**

Outlet Size : **2½" / 3"**

**2900 rpm**

Pump Model*	Power		lpm m <sup>3</sup> /hr	0	166.6	200	233.3	266.6	300	333.3	366.6	400	433.3	466.6
	kW	HP		0	10	12	14	16	18	20	22	24	26	28
TS150-22-05	4	5.5	Total Dynamic Head in Meters	57	52	50	49	48	46	43	40	35	30	24
TS150-22-06	5.5	7.5		69	62	60	58	56	54	49	45	41	35	27
TS150-22-07	7.5	10		80	71	69	66	64	60	57	52	47	40	32
TS150-22-08	7.5	10		92	84	81	78	76	72	68	62	55	47	38
TS150-22-09	9.3	12.5		100	94	91	89	86	82	77	71	64	55	45
TS150-22-10	9.3	12.5		114	104	101	98	95	92	86	79	71	61	50
TS150-22-11	9.3	12.5		125	114	110	107	104	100	95	87	78	68	57
TS150-22-12	11	15		137	126	123	120	116	110	105	95	85	74	62
TS150-22-13	11	15		150	139	135	131	125	120	113	104	94	81	69
TS150-22-14	13	17.5		160	148	145	141	136	130	121	111	100	88	75
TS150-22-15	13	17.5		171	159	155	152	147	140	131	121	109	95	80
TS150-22-16	13	17.5		182	169	166	162	156	150	140	130	116	101	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*	Power		Dimensions in mm			Nett Weight (kg)
	kW	HP	D <sub>1</sub>	D <sub>2</sub>	H	
TS150-22-05	4	5.5	139	-	531	12
TS150-22-06	5.5	7.5	139	-	578	13
TS150-22-07	7.5	10	139	143	625	14
TS150-22-08	7.5	10	139	143	672	15
TS150-22-09	9.3	12.5	139	143	719	16
TS150-22-10	9.3	12.5	139	143	766	17
TS150-22-11	9.3	12.5	139?	143	813	18
TS150-22-12	11	15	139	143	860	19
TS150-22-13	11	15	139	143	907	20
TS150-22-14	13	17.5	139	143	954	21
TS150-22-15	13	17.5	139	143	1001	22
TS150-22-16	13	17.5	139	143	1048	23

Pump Height(H) and Weight(Kg) are approximate.

D1 - Outer diameter of pump-end suitable for D.O.L motors.  
D2 - Outer diameter of pump-end suitable for S.D motors.



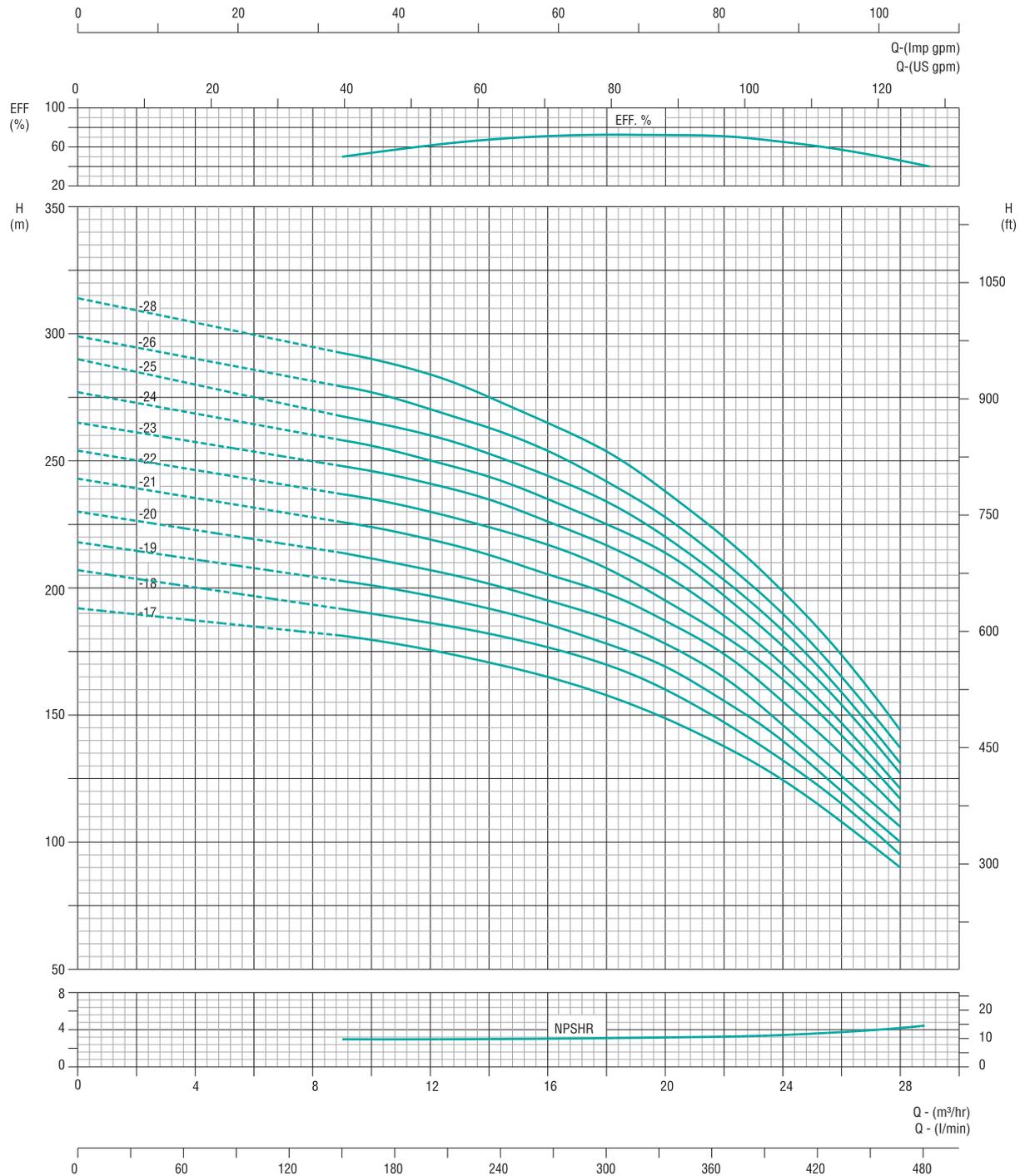
# PERFORMANCE CURVES

## TS / TN / TL SERIES > 6" > 22 m<sup>3</sup>/hr

Model : **TS150-22**

Outlet Size : **2½" / 3"**

**2900 rpm**



Curve tolerance according to ISO 9906:2012, Grade 3B

## PERFORMANCE DATA

### TS / TN / TL SERIES > 6" > 22 m<sup>3</sup>/hr

Model : **TS150-22**

Outlet Size : **2½" / 3"**

**2900 rpm**

Pump Model*	Power		lpm m <sup>3</sup> /hr	0	166.6	200	233.3	266.6	300	333.3	366.6	400	433.3	466.6
	kW	HP		0	10	12	14	16	18	20	22	24	26	28
TS150-22-17	13	17.5	Total Dynamic Head in Meters	192	180	175	171	165	158	149	138	125	108	90
TS150-22-18	15	20		207	190	186	182	176	170	160	147	132	115	95
TS150-22-19	15	20		218	201	196	192	185	178	169	155	140	120	100
TS150-22-20	18.5	25		230	212	207	202	195	188	178	165	146	126	106
TS150-22-21	18.5	25		243	224	219	213	205	198	187	174	155	135	112
TS150-22-22	18.5	25		254	235	230	224	217	208	195	181	164	142	117
TS150-22-23	18.5	25		265	246	241	235	226	217	205	189	170	147	121
TS150-22-24	22	30		277	256	250	244	235	225	214	197	177	154	127
TS150-22-25	22	30		290	265	260	253	244	234	220	203	183	159	131
TS150-22-26	22	30		299	277	270	263	254	242	228	210	190	165	137
TS150-22-28	26	35		314	290	284	275	265	254	238	220	199	174	144

\* 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*	Power		Dimensions in mm			Nett Weight (kg)
	kW	HP	D <sub>1</sub>	D <sub>2</sub>	H	
TS150-22-17	13	17.5	137	143	1095	24
TS150-22-18	15	20	137	143	1142	25
TS150-22-19	15	20	137	143	1189	26
TS150-22-20	18.5	25	137	143	1236	27
TS150-22-21	18.5	25	137	143	1283	28
TS150-22-22	18.5	25	137	143	1330	28
TS150-22-23	18.5	25	137	143	1377	29
TS150-22-24	22	30	137	143	1424	30
TS150-22-25	22	30	137	143	1471	31
TS150-22-26	22	30	137	143	1518	32
TS150-22-28	26	35	137	143	1612	34

Pump Height(H) and Weight(Kg) are approximate.

D1 - Outer diameter of pump-end suitable for D.O.L motors.  
 D2 - Outer diameter of pump-end suitable for S.D motors.



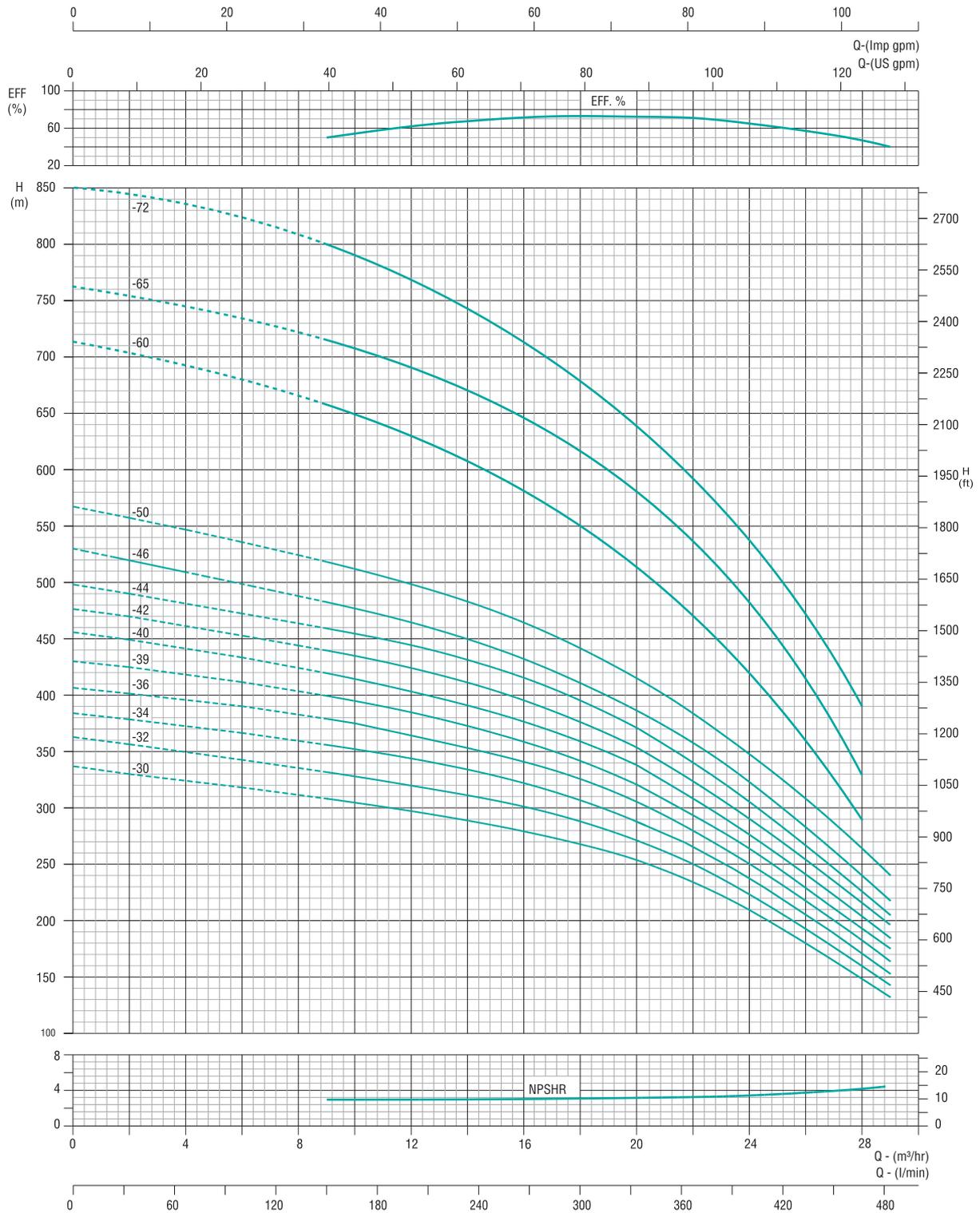
# PERFORMANCE CURVES

## TS / TN / TL SERIES > 6" > 22 m<sup>3</sup>/hr

Model : **TS150-22**

Outlet Size : **2½" / 3"**

**2900 rpm**



Curve tolerance according to ISO 9906:2012, Grade 3B

## PERFORMANCE DATA

### TS / TN / TL SERIES > 6" > 22 m<sup>3</sup>/hr

Model : **TS150-22**

Outlet Size : **2½" / 3"**

**2900 rpm**

Pump Model*	Power		lpm m <sup>3</sup> /hr	0	166.6	200	233.3	266.6	300	333.3	366.6	400	433.3	466.6
	kW	HP		0	10	12	14	16	18	20	22	24	26	28
TS150-22-30	26	35	Total Dynamic Head in Meters	338	305	298	290	280	269	253	234	210	180	149
TS150-22-32	26	35		362	329	320	310	300	289	270	250	222	192	160
TS150-22-34	26	35		382	351	344	333	321	308	289	267	238	205	170
TS150-22-36	30	40		406	375	364	352	340	326	305	280	250	218	181
TS150-22-38	30	40		430	395	385	372	360	341	320	293	263	230	192
TS150-22-40	37	50		455	414	402	390	378	360	339	309	277	240	203
TS150-22-42	37	50		476	434	423	410	397	378	352	323	290	253	216
TS150-22-44	37	50		498	454	444	430	415	397	370	340	305	268	228
TS150-22-46	37	50		535	482	470	458	440	419	390	359	322	280	240
TS150-22-50	45	60		568	511	499	482	454	440	415	383	349	309	263
TS150-22-60	55	75		714	650	630	606	581	552	518	472	416	358	290
TS150-22-65-8	55	75		762	708	690	668	645	618	583	538	480	411	330
TS150-22-72-8	55	75		850	790	765	740	710	680	642	595	535	465	390

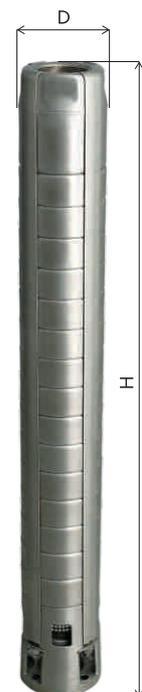
\* For AISI 316 replace TS with TN : Performance Data remains same.  
 \* For AISI 904L replace TS with TL : Performance Data remains same.

### Nett Weights & Dimensions

Pump Model*	Power		Dimensions in mm			Nett Weight (kg)
	kW	HP	D <sub>1</sub>	D <sub>2</sub>	H	
TS150-22-30	26	35	139	143	1706	36
TS150-22-32	26	35	139	143	1800	38
TS150-22-34	26	35	139	143	1894	40
TS150-22-36	30	40	139	143	1988	42
TS150-22-38	30	40	139	143	2082	44
TS150-22-40	37	50	139	143	2176	46
TS150-22-42	37	50	139	143	2270	48
TS150-22-44	37	50	139	143	2364	50
TS150-22-46	37	50	139	143	2458	52
TS150-22-50	45	60	139	143	2646	56
TS150-22-60	55	75	139	143	3136	67
TS150-22-65-8	55	75	139	143	3381	72
TS150-22-72-8	55	75	139	143	3760	79

Pump Height(H) and Weight(Kg) are approximate.

D1 - Outer diameter of pump-end suitable for D.O.L motors.  
 D2 - Outer diameter of pump-end suitable for S.D motors.



All performance data is based on rated input.

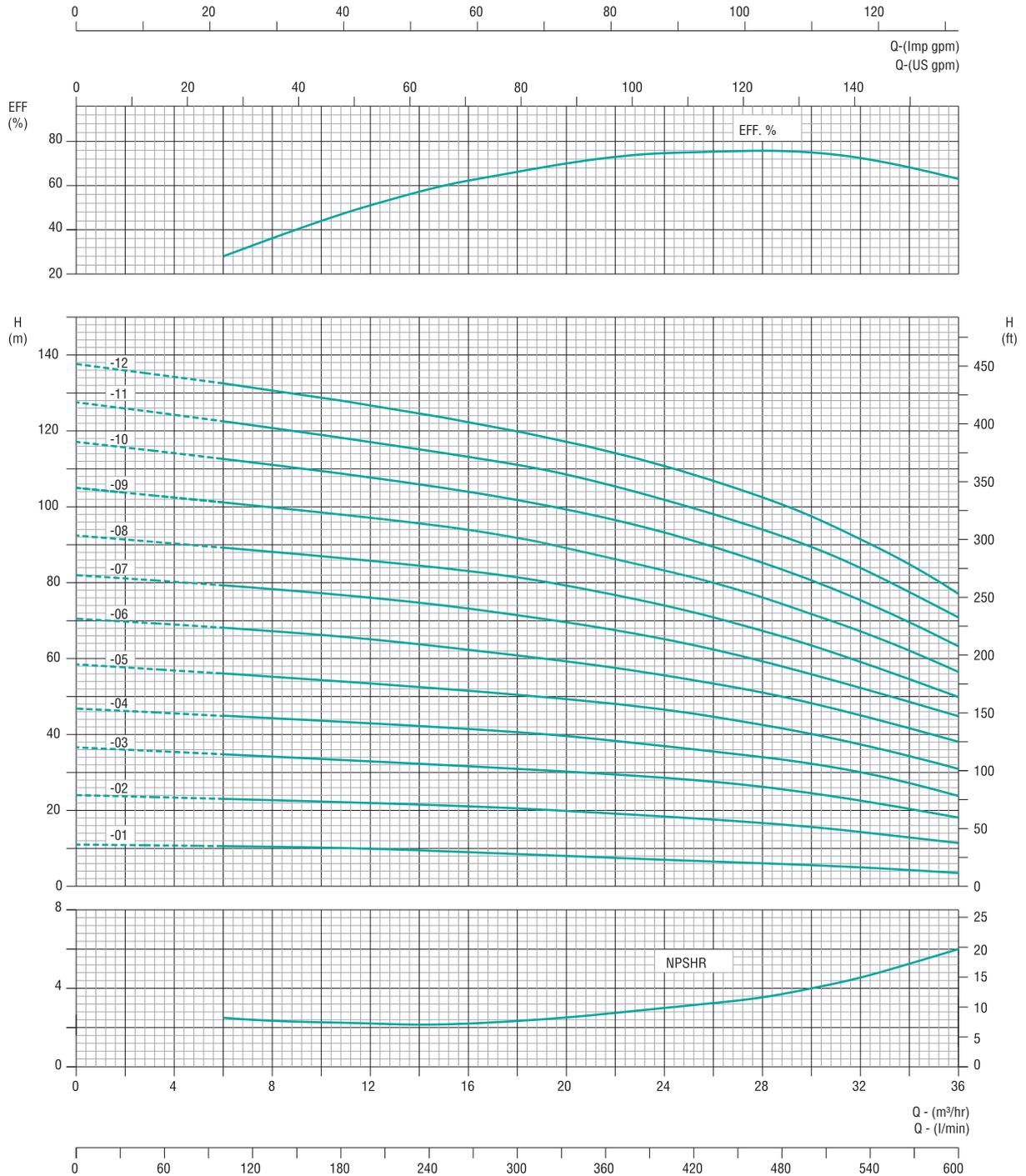
# PERFORMANCE CURVES

## TS / TN / TL SERIES > 6" > 30 m<sup>3</sup>/hr

Model : **TS150-30**

Outlet Size : **3"**

**2900 rpm**



Curve tolerance according to ISO 9906:2012, Grade 3B

## PERFORMANCE DATA

### TS / TN / TL SERIES > 6" > 30 m<sup>3</sup>/hr

Model : **TS150-30**

Outlet Size : **3"**

**2900 rpm**

Pump Model*	Power		lpm m <sup>3</sup> /hr	0	133.3	200	266.6	333.3	400	433.3	500	533.3	566.6	600
	kW	HP		0	8	12	16	20	24	26	30	32	34	36
TS150-30-01	1.5	2	Total Dynamic Head in Meters	11	10.5	10	9	8	7	6.5	6	5	4	3.5
TS150-30-02	2.2	3		24	22.8	22	21	20	18.5	17.9	15.9	14	13	11
TS150-30-03	3	4		36.5	34	33	31.8	30	28.5	27.8	24.5	22.8	20.5	18
TS150-30-04	4	5.5		47	44	43	41.8	39.8	37	35.8	32.5	30	27	24
TS150-30-05	5.5	7.5		58.5	55	53.8	51.8	49	46.5	45	40	37	34	31
TS150-30-06	5.5	7.5		70.5	67	65	62	59	55.8	53.5	48	45	42	38
TS150-30-07	7.5	10		82	78	76	73	69	65	62	56	52	48.5	45
TS150-30-08	7.5	10		92.5	88	86	83	79	74	71	63.5	59	54.5	50
TS150-30-09	9.3	12.5		105	100	97	94	89	83	80	72	67	62	57
TS150-30-10	9.3	12.5		117	111	108	104	99	93	89.5	81	75.5	70	63
TS150-30-11	9.3	12.5		127	121	117	113	108.5	102	98	89.5	84	78	71
TS150-30-12	11	15		137	131	127	122.5	117	111	107	98	91.5	85	77

\* 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*	Power		Dimensions in mm			Nett Weight (kg)
	kW	HP	D <sub>1</sub>	D <sub>2</sub>	H	
TS150-30-01	1.5	2	136	-	386	8
TS150-30-02	2.2	3	136	-	482	10
TS150-30-03	3	4	136	-	578	12
TS150-30-04	4	5.5	136	-	674	14
TS150-30-05	5.5	7.5	136	140	770	16
TS150-30-06	5.5	7.5	136	140	866	17
TS150-30-07	7.5	10	136	140	962	19
TS150-30-08	7.5	10	136?	140	1058	21
TS150-30-09	9.3	12.5	136	140	1154	23
TS150-30-10	9.3	12.5	136	140	1250	25
TS150-30-11	9.3	12.5	136	140	1346	27
TS150-30-12	11	15	136	140	1442	29

Pump Height(H) and Weight(Kg) are approximate.

D1 - Outer diameter of pump-end suitable for D.O.L motors.  
 D2 - Outer diameter of pump-end suitable for S.D motors.



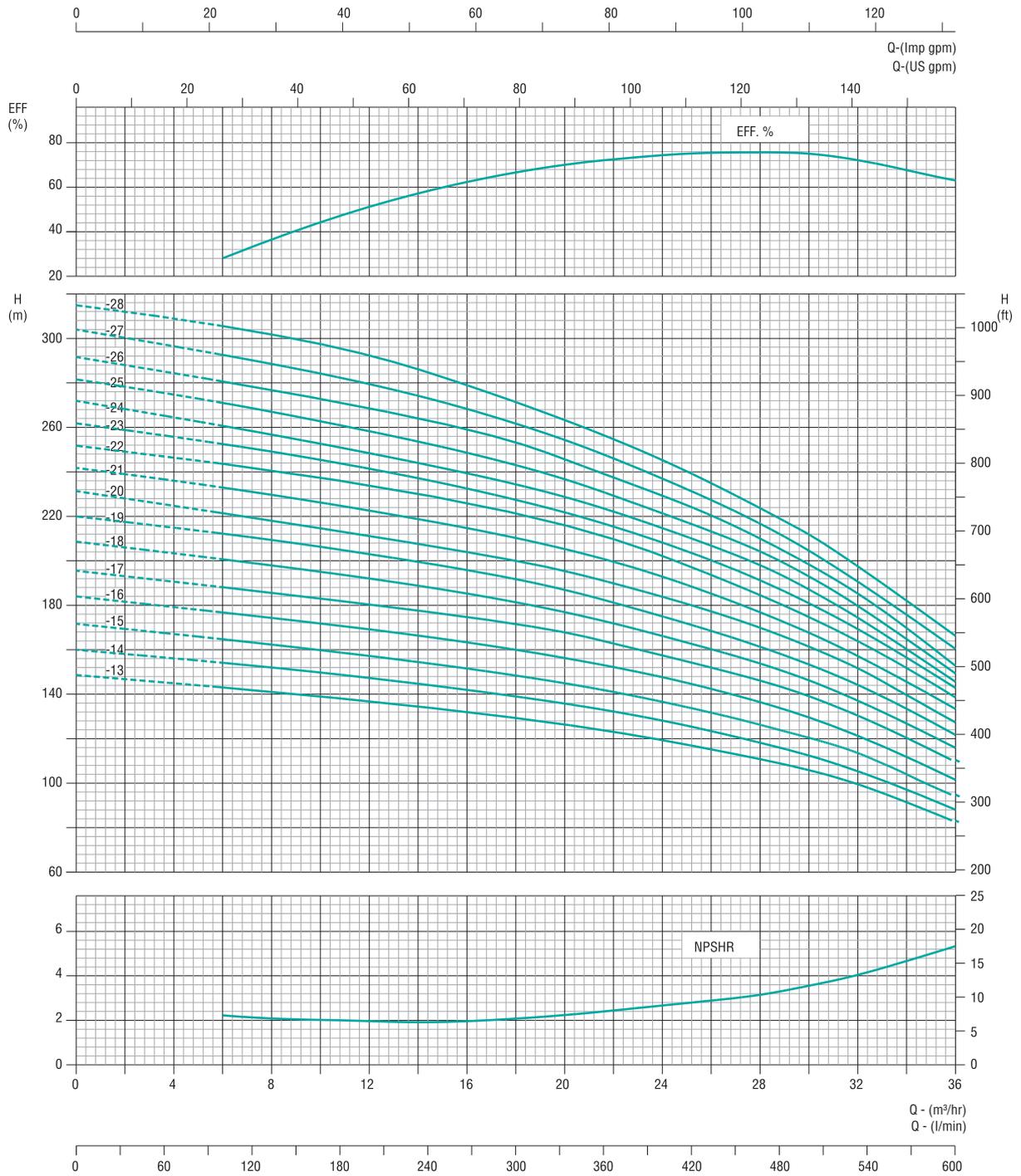
# PERFORMANCE CURVES

## TS / TN / TL SERIES > 6" > 30 m<sup>3</sup>/hr

Model : **TS150-30**

Outlet Size : **3"**

**2900 rpm**



Curve tolerance according to ISO 9906:2012, Grade 3B

## PERFORMANCE DATA

### TS / TN / TL SERIES > 6" > 30 m<sup>3</sup>/hr

Model : **TS150-30**

Outlet Size : **3"**

**2900 rpm**

Pump Model*	Power		lpm m <sup>3</sup> /hr	0	133.3	200	266.6	333.3	400	433.3	500	533.3	566.6	600
	kW	HP		0	8	12	16	20	24	26	30	32	34	36
TS150-30-13	11	15	Total Dynamic Head in Meters	148	142	137	132	127	119	115	106	100	92	83
TS150-30-14	13	17.5		160	152	148	142	136	128	124	112	105	97	88
TS150-30-15	13	17.5		172	163	157	152	145	136	132	120	114	104	94
TS150-30-16	15	20		184	175	169	164	156	148	143	130	121	112	102
TS150-30-17	15	20		196	186	180	174	168	158	152	139	130	120	110
TS150-30-18	18.5	25		208	198	192	185	177	166	160	146	137	127	116
TS150-30-19	18.5	25		220	210	203	196	187	175	168	154	144	134	122
TS150-30-20	18.5	25		232	218	211	204	196	184	177	162	152	140	128
TS150-30-21	18.5	25		242	230	223	215	206	193	185	168	157	146	134
TS150-30-22	22	30		252	240	234	226	216	202	194	175	164	152	139
TS150-30-23	22	30		262	249	242	232	222	208	200	180	169	156	143
TS150-30-24	22	30		272	257	248	240	228	215	207	188	175	160	146
TS150-30-25	22	30		282	267	258	248	236	222	213	193	180	165	150
TS150-30-26	22	30		292	277	268	259	246	230	220	199	185	170	154
TS150-30-27	26	35		304	288	280	268	254	237	228	204	191	176	160
TS150-30-28	26	35		315	302	292	279	264	246	235	212	198	182	166

\* 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*	Power		Dimensions in mm			Nett Weight (kg)
	kW	HP	D <sub>1</sub>	D <sub>2</sub>	H	
TS150-30-13	11	15	136	140	1538	30
TS150-30-14	13	17.5	136	140	1634	33
TS150-30-15	13	17.5	136	140	1730	34
TS150-30-16	15	20	136	140	1826	36
TS150-30-17	15	20	136	140	1922	38
TS150-30-18	18.5	25	136	140	2018	40
TS150-30-19	18.5	25	136	140	2114	42
TS150-30-20	18.5	25	136	140	2210	44
TS150-30-21	18.5	25	136	140	2306	46
TS150-30-22	22	30	136	140	2402	48
TS150-30-23	22	30	136	140?	2498	49
TS150-30-24	22	30	136	140	2594	51
TS150-30-25	22	30	136	140	2690	53
TS150-30-26	22	30	136	140	2786	55
TS150-30-27	26	35	136	140	2882	57
TS150-30-28	26	35	136	140	2978	59

Pump Height(H) and Weight(Kg) are approximate.

D1 - Outer diameter of pump-end suitable for D.O.L motors.  
 D2 - Outer diameter of pump-end suitable for S.D motors.



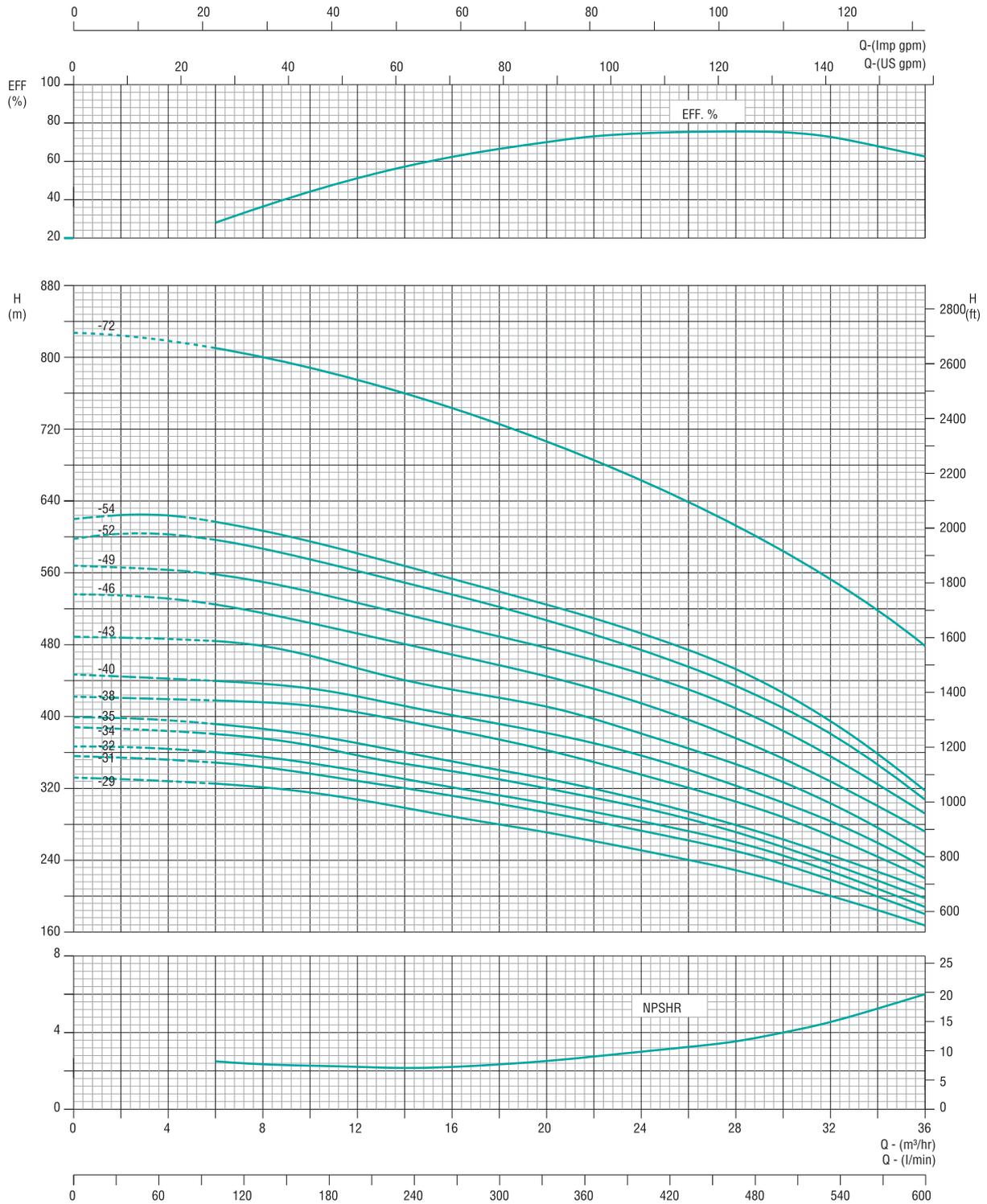
# PERFORMANCE CURVES

## TS / TN / TL SERIES > 6" > 30 m<sup>3</sup>/hr

Model : **TS150-30**

Outlet Size : **3"**

**2900 rpm**



Curve tolerance according to ISO 9906:2012, Grade 3B

## PERFORMANCE DATA

### TS / TN / TL SERIES > 6" > 30 m<sup>3</sup>/hr

Model : **TS150-30**

Outlet Size : **3"**

**2900 rpm**

Pump Model*	Power		lpm m <sup>3</sup> /hr	0	133.3	200	266.6	333.3	400	433.3	500	533.3	566.6	600
	kW	HP		0	8	12	16	20	24	26	30	32	34	36
TS150-30-29	26	35	Total Dynamic Head in Meters	330	323	307	287	270	250	240	214	198	183	175
TS150-30-31	26	35		356	343	328	312	293	273	262	233	215	200	190
TS150-30-32	30	40		366	355	338	322	304	283	272	245	225	207	200
TS150-30-34	30	40		388	375	357	340	320	298	286	255	234	210	207
TS150-30-35	30	40		400	387	370	350	331	307	293	263	244	222	217
TS150-30-38	37	50		420	417	405	385	363	336	320	290	263	247	232
TS150-30-40	37	50		446	437	423	401	382	357	341	304	280	260	245
TS150-30-43	37	50		489	477	453	430	412	381	365	326	300	276	261
TS150-30-46-8	45	60		535	515	492	467	445	415	397	352	323	300	286
TS150-30-49-8	45	60		568	550	527	501	477	447	430	384	352	325	308
TS150-30-52-8	55	75		600	587	562	535	507	473	455	409	375	346	327
TS150-30-54-8	55	75		620	607	581	553	525	492	477	426	390	360	338
TS150-30-72-8	75	100		870	793	778	739	705	658	608	583	548	500	459

\* 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*	Power		Dimensions in mm			Nett Weight (kg)
	kW	HP	D <sub>1</sub>	D <sub>2</sub>	H	
TS150-30-29	26	35	136	140	3074	61
TS150-30-31	26	35	136	140	3266	65
TS150-30-32	30	40	136	140	3362	67
TS150-30-34	30	40	136	140	3554	70
TS150-30-35	30	40	136	140	3650	72
TS150-30-38	37	50	136	140	3938	78
TS150-30-40	37	50	136	140	4130	82
TS150-30-43	37	50	136	140	4418	87
TS150-30-46-8	45	60	136	140	4706	93
TS150-30-49-8	45	60	136	140	4994	98
TS150-30-52-8	55	75	136	140	5282	106
TS150-30-54-8	55	75	136	140	5474	112
TS150-30-72-8	75	100	136	140	7299	150

Pump Height(H) and Weight(Kg) are approximate.

D1 - Outer diameter of pump-end suitable for D.O.L motors.  
 D2 - Outer diameter of pump-end suitable for S.D motors.



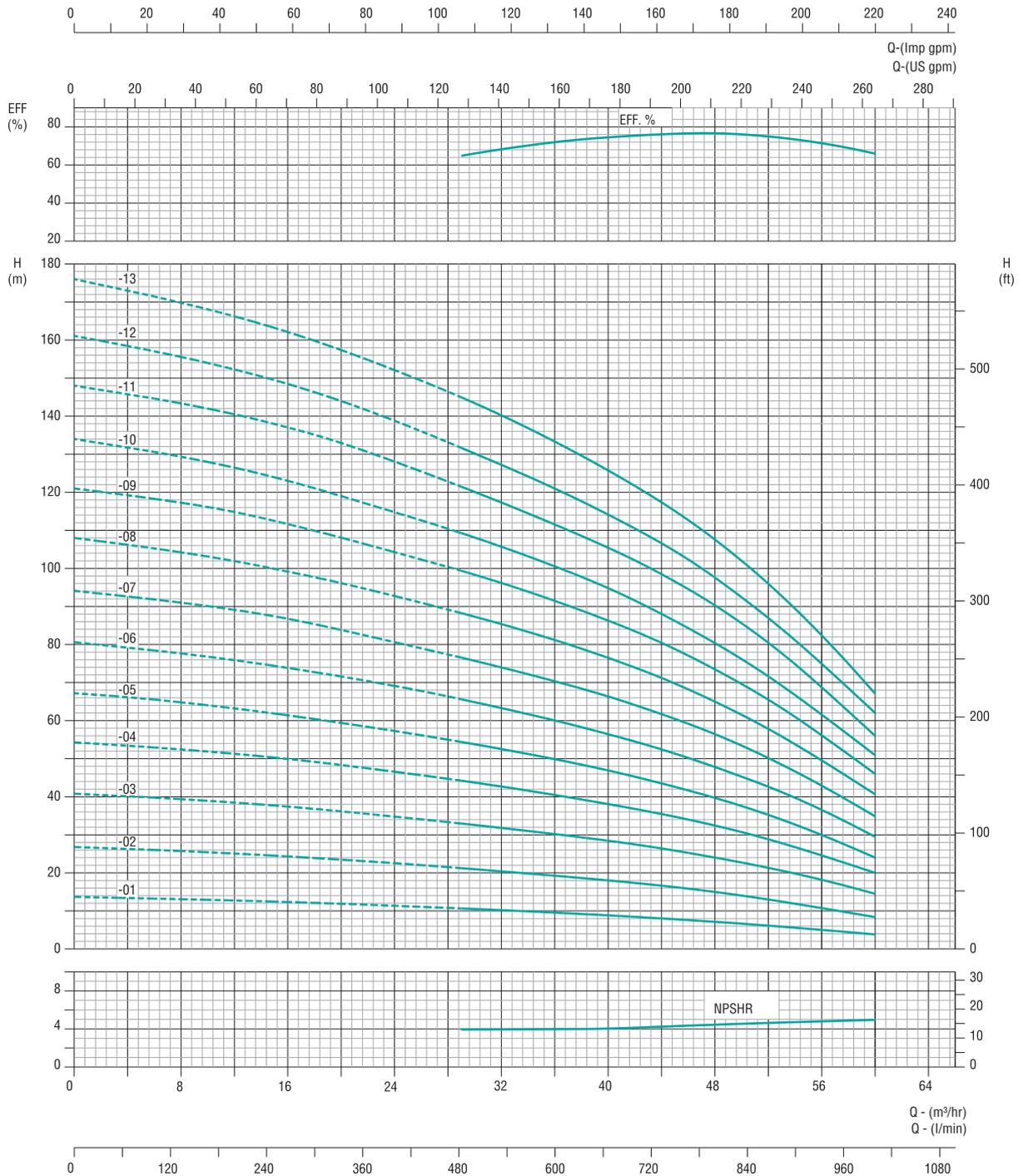
# PERFORMANCE CURVES

## TS / TN / TL SERIES > 6" > 48 m<sup>3</sup>/hr

Model : **TS150-48**

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

**2900 rpm**



Curve tolerance according to ISO 9906:2012, Grade 3B

## PERFORMANCE DATA

### TS / TN / TL SERIES > 6" > 48 m<sup>3</sup>/hr

Model : **TS150-48**

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

**2900 rpm**

Pump Model*	Power		lpm m <sup>3</sup> /hr	0	166.6	333.2	500	666.4	733	800	833	933	1000
	kW	HP		0	10	20	30	40	44	48	50	56	60
TS150-48-01	2.2	3	Total Dynamic Head in Meters	13.5	13	12	10.5	9	8	7	6.8	5	3.8
TS150-48-02	3	4		26.8	25.5	23.5	21	18	16.5	15	14	11	8.5
TS150-48-03	5.5	7.5		40.8	39	36	32.5	28.5	26	24	23	18	14.5
TS150-48-04	7.5	10		54.2	52	48.2	43.8	38	35.5	32	30.8	24	20
TS150-48-05	7.5	10		67	64	59.5	53.8	47	44	40	37.8	30	24
TS150-48-06	9.3	12.5		80.5	77	71.5	65	56.5	52	48	45.5	36	29.8
TS150-48-07	11	15		94	90	84	75.8	66.2	62	56	53.5	42.5	35
TS150-48-08	13	17.5		108	103	96	87.3	76.5	71	65	61.8	50	41
TS150-48-09	15	20		121	116	108	98.2	86.2	80	74	69.8	56	46
TS150-48-10	15	20		134	128	119	108	95	88	80	76	61	51
TS150-48-11	18.5	25		148	142	133	120	105.5	98.5	90	85.8	68	56
TS150-48-12	18.5	25		161	154	144	130	114	106	98	92.2	74	62
TS150-48-13	22	30		176	168	157.5	143.5	125.8	117.5	108	102	82	67.5

\* 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*	Power		Dimensions in mm			Nett Weight (kg)
	kW	HP	D <sub>1</sub>	D <sub>2</sub>	H	
TS150-48-01	2.2	3	145	-	403	9
TS150-48-02	3	4	145	-	516	11
TS150-48-03	5.5	7.5	145	147	629	13
TS150-48-04	7.5	10	145	147	742	16
TS150-48-05	7.5	10	145	147	855	18
TS150-48-06	9.3	12.5	145	147	968	20
TS150-48-07	11	15	145	147	1081	22
TS150-48-08	13	17.5	145	147	1194	25
TS150-48-09	15	20	145	147	1307	27
TS150-48-10	15	20	145	147	1420	29
TS150-48-11	18.5	25	145	147	1533	32
TS150-48-12	18.5	25	145	147	1646	34
TS150-48-13	22	30	145	147	1759	36

Pump Height(H) and Weight(Kg) are approximate. D1 - Outer diameter of pump-end suitable for D.O.L motors. (4" Outlet=147mm)  
D2 - Outer diameter of pump-end suitable for S.D motors. (4" Outlet=152mm)



All performance data is based on rated input.

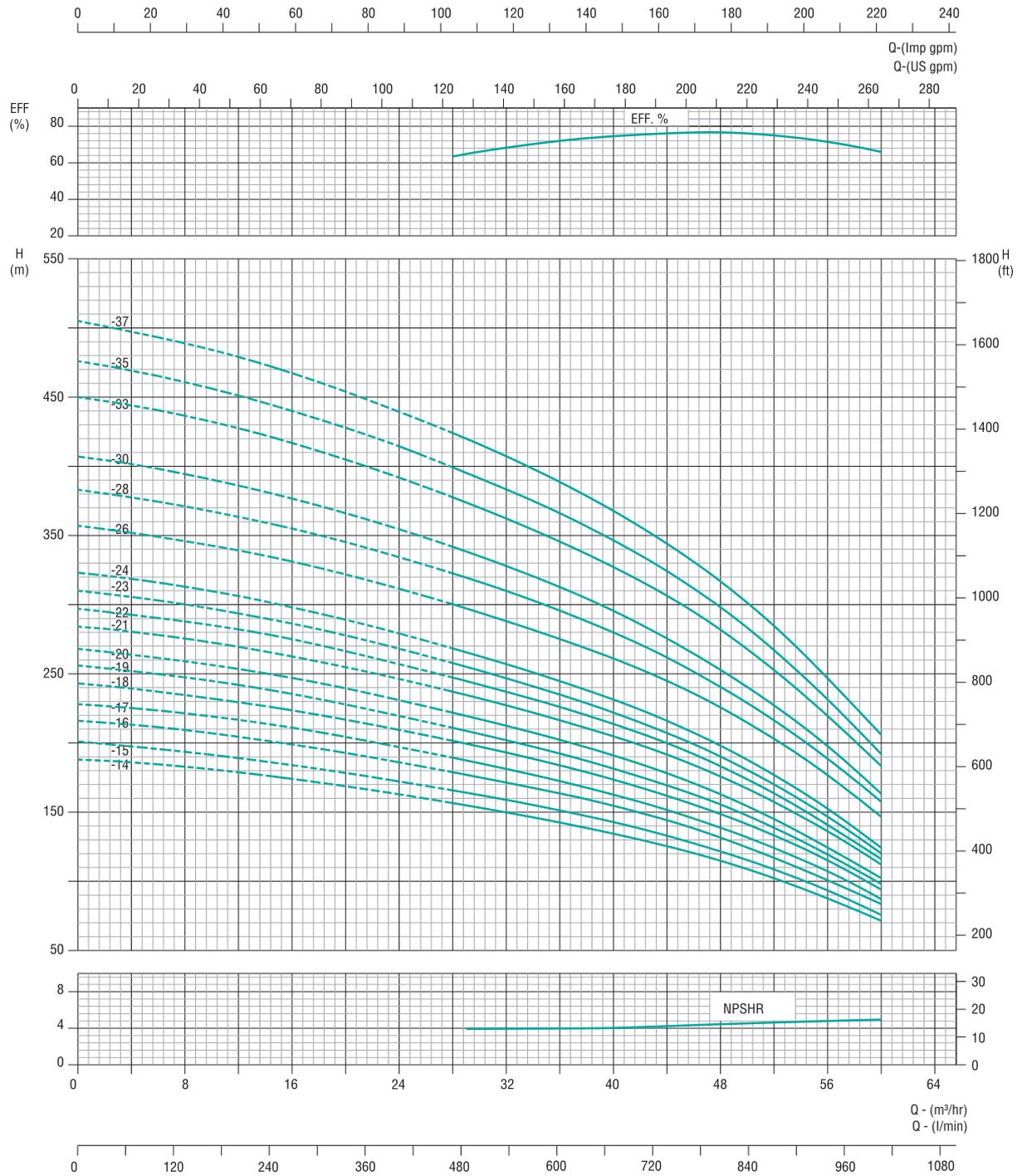
# PERFORMANCE CURVES

## TS / TN / TL SERIES > 6" > 48 m<sup>3</sup>/hr

Model : **TS150-48**

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

**2900 rpm**



Curve tolerance according to ISO 9906:2012, Grade 3B

## PERFORMANCE DATA

### TS / TN / TL SERIES > 6" > 48 m<sup>3</sup>/hr

Model : **TS150-48**

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

**2900 rpm**

Pump Model*	Power		lpm m <sup>3</sup> /hr	0	166.6	333.2	500	666.4	733	800	833	933	1000
	kW	HP		0	10	20	30	40	44	48	50	56	60
TS150-48-14	22	30	Total Dynamic Head in Meters	188	179	168	153	135	130	115	109	89	72
TS150-48-15	22	30		201	192	178	163	143	132	121	115	94	76
TS150-48-16	26	35		216	207	193	175	154	144	131	125	100	84
TS150-48-17	26	35		228	219	204	186	162	151	139	132	109	88
TS150-48-18	30	40		243	233	217	197	174	161	149	141	116	95
TS150-48-19	30	40		256	245	228	206	182	170	155	148	120	99
TS150-48-20	30	40		268	256	240	217	191	179	163	154	125	103
TS150-48-21	37	500		284	273	255	233	205	181	176	167	136	113
TS150-48-22	37	50		297	285	266	243	214	200	182	174	140	117
TS150-48-23	37	50		310	297	278	253	222	207	190	180	148	121
TS150-48-24	37	50		323	310	289	263	231	216	199	188	152	124
TS150-48-26-8	45	60		357	343	323	295	261	245	226	215	179	148
TS150-48-28-8	45	60		383	367	345	316	280	261	240	229	190	159
TS 150-48-30-8	45	60		407	390	366	335	295	276	251	240	199	164
TS 150-48-33-8	55	75		450	433	405	370	328	308	281	268	220	184
TS 150-48-35-8	55	75		476	456	428	392	347	325	299	283	231	193
TS 150-48-37-8	63	85		505	484	454	416	368	345	319	301	249	207

\* 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*	Power		Dimensions in mm			Nett Weight (kg)
	kW	HP	D <sub>1</sub>	D <sub>2</sub>	H	
TS150-48-14	22	30	142	147	1872	38
TS150-48-15	22	30	142	147	1985	41
TS150-48-16	26	35	142	147	2098	43
TS150-48-17	26	35	142	147	2211	45
TS150-48-18	30	40	142	147	2324	48
TS150-48-19	30	40	142	147	2437	50
TS150-48-20	30	40	142	147	2550	52
TS150-48-21	37	500	142	147	2663	54
TS150-48-22	37	50	142	147	2776	57
TS150-48-23	37	50	142	147	2889	59
TS150-48-24	37	50	142	147	3002	61
TS150-48-26-8	45	60	142	147	3228	66
TS150-48-28-8	45	60	142	147	3454	70
TS 150-48-30-8	45	60	142	147	3680	75
TS 150-48-33-8	55	75	142	147	4019	84
TS 150-48-35-8	55	75	142	147	4245	89
TS 150-48-37-8	63	85	142	147	4471	93

Pump Height(H) and Weight(Kg) are approximate.  
 All performance data is based on rated input.

D1 - Outer diameter of pump-end suitable for D.O.L motors (4" outlet = 147 mm).  
 D2 - Outer diameter of pump-end suitable for S.D motors (4" outlet = 152 mm). 26 thru 37 stage pumpend can also be supplied suitable for 8" motors (187 mm).



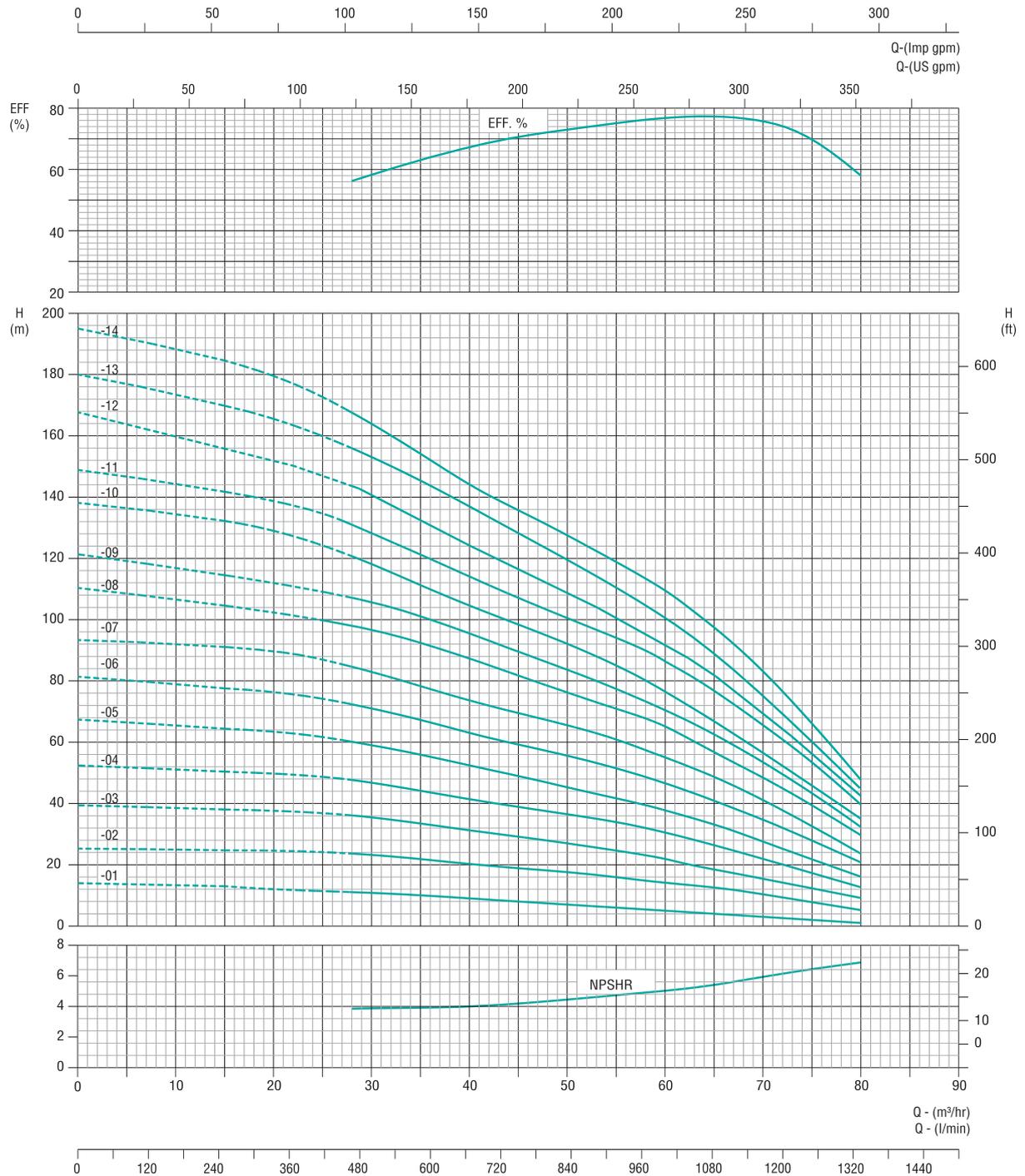
# PERFORMANCE CURVES

## TS / TN / TL SERIES > 6" > 60 m<sup>3</sup>/hr

Model : **TS150-60**

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

**2900 rpm**



Curve tolerance according to ISO 9906:2012, Grade 3B

## PERFORMANCE DATA

### TS / TN / TL SERIES > 6" > 60 m<sup>3</sup>/hr

Model : **TS150-60**

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

**2900 rpm**

Pump Model*	Power		lpm m <sup>3</sup> /hr	0	250	333.3	500	666.6	833	1000	1166	1333
	kW	HP		0	15	20	30	40	50	60	70	80
TS150-60-01	2.2	3	Total Dynamic Head in Meters	14	13	12	11	9	7	5	3	1
TS150-60-02	4	5.5		26	25	24	23	20	17	14	10	5
TS150-60-03	5.5	7.5		39	38	37	35	32	27	22	15	9
TS150-60-04	7.5	10		52	51	50	47	42	37	31	22	13
TS150-60-05	9.3	12.5		67	64	63	59	53	45	37	28	16
TS150-60-06	11	15		82	78	76	71	63	56	47	35	21
TS150-60-07	13	17.5		94	91	89	83	73	66	55	41	24
TS150-60-08	15	20		110	104	102	97	87	76	65	48	30
TS150-60-09	18.5	25		122	114	112	106	95	84	70	54	33
TS150-60-10	18.5	25		138	133	128	118	105	92	76	57	35
TS150-60-11	22	30		148	142	138	128	114	101	86	65	40
TS150-60-12	22	30		167	156	152	141	124	109	92	69	43
TS150-60-13	26	35		180	170	165	153	137	120	100	75	45
TS150-60-14	26	35		195	184	179	164	144	128	110	83	48

\* 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*	Power		Dimensions in mm			Nett Weight (kg)
	kW	HP	D <sub>1</sub>	D <sub>2</sub>	H	
TS150-60-01	2.2	3	145	-	403	6
TS150-60-02	4	5.5	145	-	516	11
TS150-60-03	5.5	7.5	145	149	629	13
TS150-60-04	7.5	10	145	149	742	16
TS150-60-05	9.3	12.5	145	149	855	18
TS150-60-06	11	15	145	149	968	21
TS150-60-07	13	17.5	145	149	1081	23
TS150-60-08	15	20	145	149	1194	25
TS150-60-09	18.5	25	145	149	1307	28
TS150-60-10	18.5	25	145	149	1420	30
TS150-60-11	22	30	145	149	1533	32
TS150-60-12	22	30	145	149	1646	35
TS150-60-13	26	35	145	149	1759	37
TS150-60-14	26	35	145	149	1872	39

Pump Height(H) and Weight(Kg) are approximate.  
All performance data is based on rated input.

D1 - Outer diameter of pump-end suitable for D.O.L motors (4" outlet = 147 mm).  
D2 - Outer diameter of pump-end suitable for S.D motors (4" outlet = 152 mm).



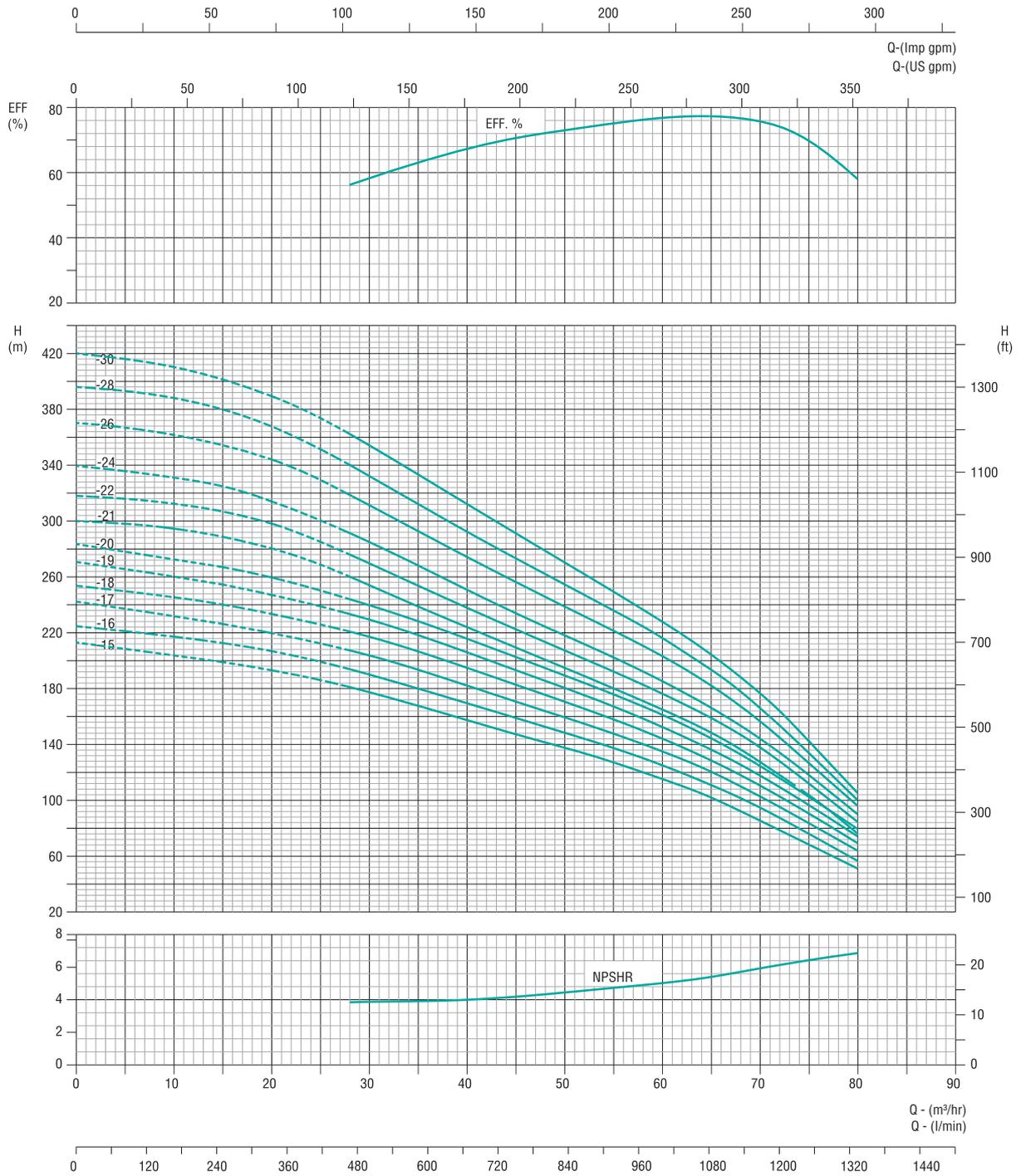
# PERFORMANCE CURVES

## TS / TN / TL SERIES > 6" > 60 m<sup>3</sup>/hr

Model : **TS150-60**

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

**2900 rpm**



Curve tolerance according to ISO 9906:2012, Grade 3B

## PERFORMANCE DATA

### TS / TN / TL SERIES > 6" > 60 m<sup>3</sup>/hr

Model : **TS150-60**

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

**2900 rpm**

Pump Model*	Power		lpm m <sup>3</sup> /hr	0	250	333.3	500	666.6	833	1000	1166	1333
	kW	HP		0	15	20	30	40	50	60	70	80
TS150-60-15	26	35	Total Dynamic Head in Meters	212	198	194	177	157	137	117	85	52
TS150-60-16	30	40		220	213	207	188	167	147	127	89	57
TS150-60-17	30	40		242	227	222	205	183	160	138	107	63
TS150-60-18	37	50		252	240	233	212	189	176	142	112	67
TS150-60-19	37	50		270	254	248	231	206	181	152	116	74
TS150-60-20	37	50		282	276	267	259	216	189	162	124	80
TS150-60-21	37	50		300	288	281	254	223	195	165	126	77
TS150-60-22-8	45	60		318	306	298	270	238	207	176	138	84
TS150-60-24-8	45	60		339	324	314	285	251	218	186	144	90
TS150-60-26-8	55	75		370	354	344	312	275	239	204	156	96
TS150-60-28-8	55	75		396	378	367	332	293	255	216	161	101
TS150-60-30-8	55	75		420	402	390	354	312	270	228	176	107

\* 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*	Power		Dimensions in mm			Nett Weight (kg)
	kW	HP	D <sub>1</sub>	D <sub>2</sub>	H	
TS150-60-15	26	35	145	149	1985	42
TS150-60-16	30	40	145	149	2098	44
TS150-60-17	30	40	145	149	2211	46
TS150-60-18	37	50	145	149	2324	49
TS150-60-19	37	50	145	149	2437	51
TS150-60-20	37	50	145	149	2550	53
TS 150-60-21	37	50	145	149	2663	56
TS 150-60-22-8	45	60	145	149	2776	58
TS 150-60-24-8	45	60	145	149	3002	63
TS 150-60-26-8	55	75	145	149	3228	70
TS 150-60-28-8	55	75	145	149	3454	74
TS 150-60-30-8	55	75	145	149	3680	79

Pump Height(H) and Weight(Kg) are approximate.  
 All performance data is based on rated input.

D1 - Outer diameter of pump-end suitable for D.O.L motors (4" outlet = 147 mm).  
 D2 - Outer diameter of pump-end suitable for S.D motors (4" outlet = 152 mm). 22 thru 30 stages pumped can also be supplied suitable for 8" (187mm) motors



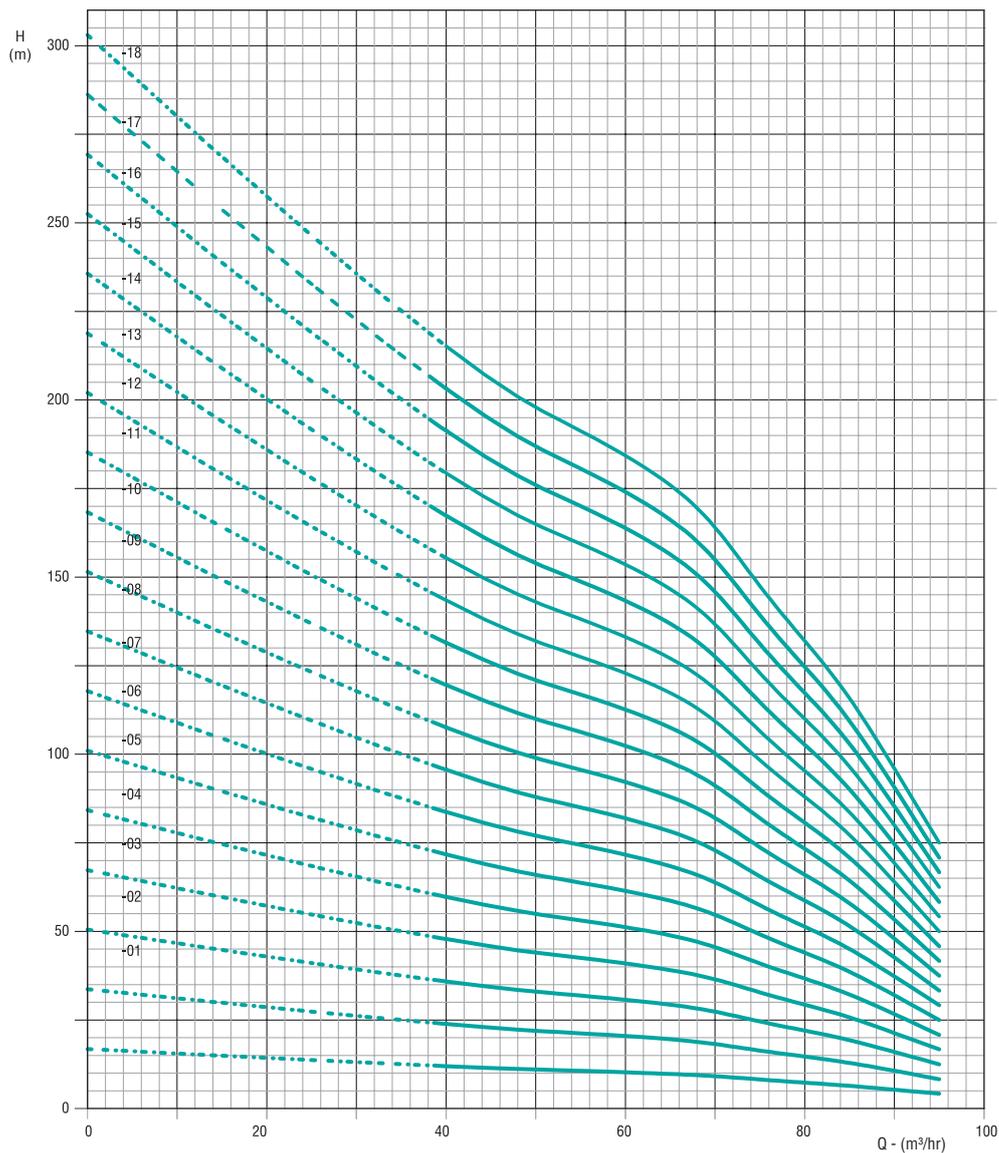
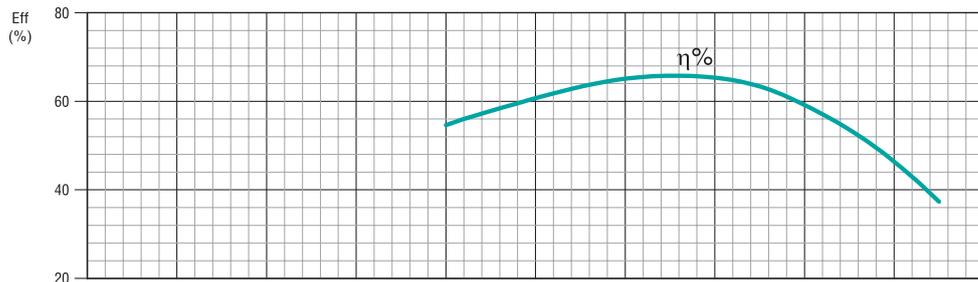
# PERFORMANCE CURVES

## TS / TN / TL SERIES > 6" > 76 m<sup>3</sup>/hr

Model : **TS150-76**

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

**2900 rpm**



Curve tolerance according to ISO 9906:2012, Grade 3B

## PERFORMANCE DATA

### TS / TN / TL SERIES > 6" > 76 m<sup>3</sup>/hr

Model : **TS150-76**

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

**2900 rpm**

Pump Model*	Power		lpm m <sup>3</sup> /hr	0	666.6	916.6	1083.3	1166.6	1266.5	1333.3	1416.6	1500	1583.5
	kW	HP		0	40	55	65	70	76	80	85	90	95
TS150-76-01	3	4	Total Dynamic Head in Meters	17	12	11	10	9	8	7	7	5	4
TS150-76-02	5.5	7.5		34	23	21	20	18	16	15	13	11	8
TS150-76-03	7.5	10		51	35	32	30	28	24	22	20	16	13
TS150-76-04	11	15		67	47	43	39	37	32	29	26	21	17
TS150-76-05	13	17.5		84	58	53	49	46	40	37	33	27	21
TS150-76-06	15	20		101	70	64	59	55	48	44	39	32	25
TS150-76-07	18.5	25		118	82	75	69	64	56	51	46	37	29
TS150-76-08	18.5	25		135	93	85	79	73	64	59	52	43	33
TS150-76-09	22	30		152	105	96	89	83	73	66	59	48	38
TS150-76-10	26	35		168	117	107	98	92	80	73	65	53	42
TS150-76-11	30	40		185	128	117	108	101	88	81	72	59	46
TS150-76-12	30	40		202	140	128	118	110	96	88	78	64	50
TS150-76-13	37	50		219	152	139	128	119	105	95	85	69	54
TS150-76-14	37	50		236	163	149	138	128	112	103	91	75	58
TS150-76-15	37	50		253	175	160	148	138	120	110	98	80	63
TS150-76-16	45	60		269	187	171	157	147	129	117	104	85	67
TS150-76-17	45	60		286	198	181	167	156	136	125	111	91	71
TS150-76-18	45	60		303	210	192	177	165	144	132	117	96	75

\* 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*	Power		Dimensions in mm			Nett Weight (kg)
	kW	HP	D <sub>1</sub>	D <sub>2</sub>	H	
TS150-76-01	3	4	149	153	457	11.00
TS150-76-02	5.5	7.5	149	153	601	14.00
TS150-76-03	7.5	10	149	153	745	17.00
TS150-76-04	11	15	149	153	889	20.00
TS150-76-05	13	17.5	149	153	1033	23.00
TS150-76-06	15	20	149	153	1177	26.00
TS150-76-07	18.5	25	149	153	1321	29.00
TS150-76-08	18.5	25	149	153	1465	32.00
TS150-76-09	22	30	149	153	1609	35.00
TS150-76-10	26	35	149	153	1753	38.00
TS150-76-11	30	40	149	153	1897	41.00
TS150-76-12	30	40	149	153	2041	44.00
TS150-76-13	37	50	149	153	2185	47.00
TS150-76-14	37	50	149	153	2329	50.00
TS150-76-15	37	50	149	153	2473	54.00
TS150-76-16	45	60	149	153	2617	57.00
TS150-76-17	45	60	149	153	2761	60.00
TS150-76-18	45	60	149	153	2905	63.00

Pump Height(H) and Weight(Kg) are approximate.

D1 - Outer diameter of pump-end suitable for D.O.L motors.  
D2 - Outer diameter of pump-end suitable for S.D motors.



All performance data is based on rated input.

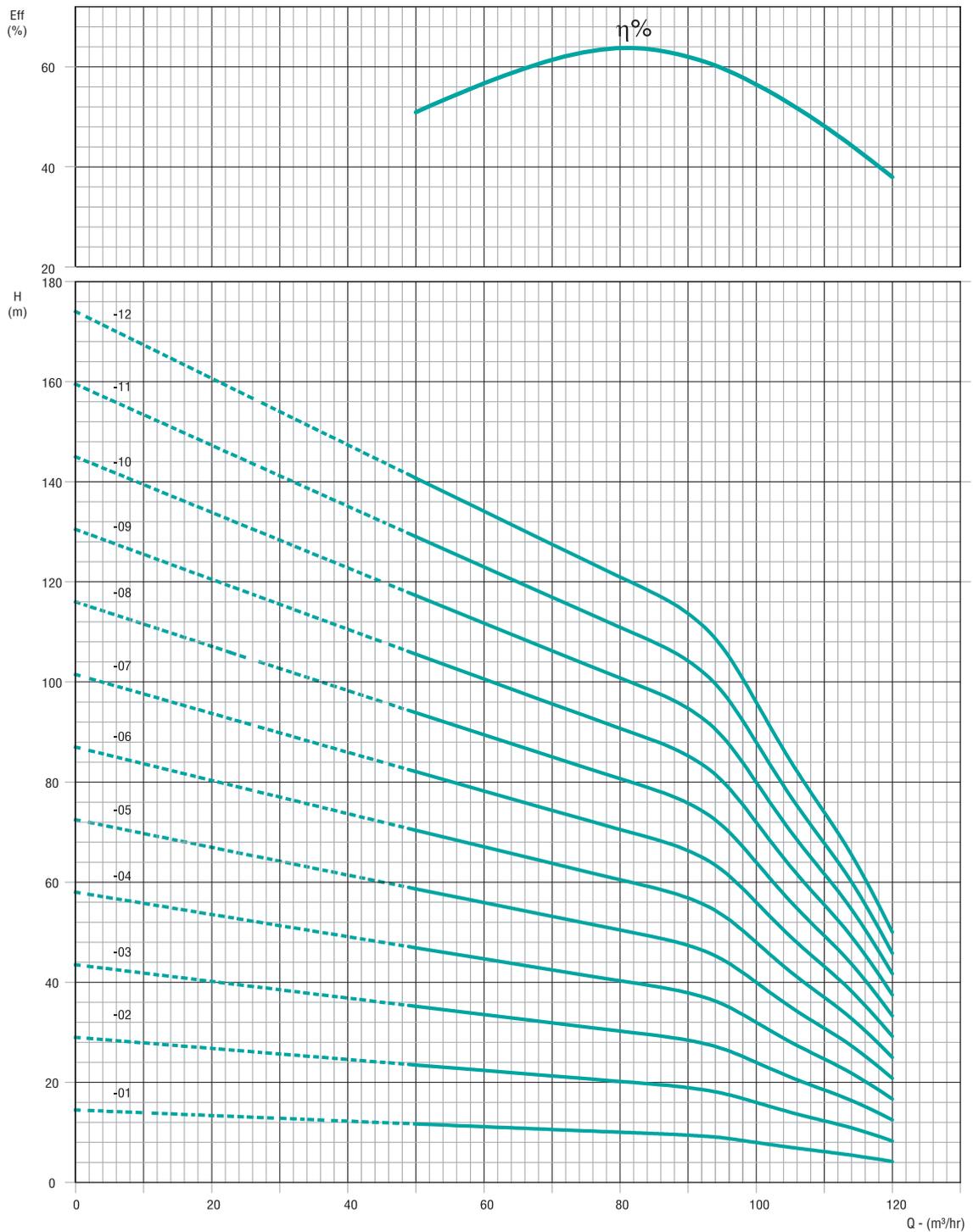
# PERFORMANCE CURVES

## TS / TN / TL SERIES > 6" > 92 m<sup>3</sup>/hr

Model : **TS150-92**

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

**2900 rpm**



Curve tolerance according to ISO 9906:2012, Grade 3B

## PERFORMANCE DATA

### TS / TN / TL SERIES > 6" > 92 m<sup>3</sup>/hr

Model : **TS150-92**

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

**2900 rpm**

Pump Model*	Power		lpm m <sup>3</sup> /hr	0	1250	1416.6	1500	1583.5	1666.6	1750	1833.3	1916.6	2000
	kW	HP		0	75	85	90	95	100	105	110	115	120
TS150-92-01	4	5.5	Total Dynamic Head in Meters	15	10	10	10	9	8	7	6	5	4
TS150-92-02	7.5	10		29	21	20	19	18	16	14	12	11	8
TS150-92-03	11	15		44	31	30	29	27	24	21	19	16	13
TS150-92-04	15	20		58	41	39	38	36	32	28	25	21	17
TS150-92-05	18.5	25		73	52	49	48	45	40	35	31	27	21
TS150-92-06	22	30		87	62	59	57	54	48	42	37	32	25
TS150-92-07	26	35		102	72	69	67	63	56	49	43	37	29
TS150-92-08	30	40		116	83	79	76	72	64	56	49	43	33
TS150-92-09	37	50		131	93	89	86	81	72	63	56	48	38
TS150-92-10	37	50		145	103	98	95	90	80	70	62	53	42
TS150-92-11	45	60		160	114	108	105	99	88	77	68	59	46
TS150-92-12	45	60		174	124	118	114	108	96	84	74	64	50

\* 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*	Power		Dimensions in mm			Nett Weight (kg)
	kW	HP	D <sub>1</sub>	D <sub>2</sub>	H	
TS150-92-01	4	5.5	149	153	457	11
TS150-92-02	7.5	10	149	153	601	14
TS150-92-03	11	15	149	153	745	17
TS150-92-04	15	20	149	153	889	20
TS150-92-05	18.5	25	149	153	1033	23
TS150-92-06	22	30	149	153	1177	26
TS150-92-07	26	35	149	153	1321	29
TS150-92-08	30	40	149	153	1465	32
TS150-92-09	37	50	149	153	1609	35
TS150-92-10	37	50	149	153	1753	38
TS150-92-11	45	60	149	153	1897	41
TS150-92-12	45	60	149	153	2041	44

Pump Height(H) and Weight(Kg) are approximate.

D1 - Outer diameter of pump-end suitable for D.O.L motors.  
D2 - Outer diameter of pump-end suitable for S.D motors.



All performance data is based on rated input.



## CABLE SELECTION CHART

For Three Phase 6 wire (S.D.) Motor Maximum Length of Copper Cable

Motor Rating			Cable Size In American Wire Gauge																				
VOLTS	kW	HP	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630		
<b>380 - 415 VOLT 50Hz</b>	5.5	7.5	91	143	234	351	572	896	1377	1884													
	7.5	10	65	104	169	260	403	650	974	1338													
	9.3	12.5		91	143	221	364	572	870	1182	1624												
	11	15		78	130	182	299	481	714	974	1377	1832											
	13	17.5			104	143	260	403	611	844	1156	1533											
	15	20			91	130	221	351	533	740	1026	1364	1741										
	18.5	25				104	182	273	429	585	799	1065	1364	1624									
	22	30					156	234	364	494	688	922	1169	1403	1650								
	26	35					130	195	299	403	572	792	1000	1221	1429	1650							
	30	40					117	169	273	364	520	675	870	1013	1208	1390	1624						
	37	50						143	221	299	416	546	701	831	974	1117	1312	1494					
	45	60							182	247	338	468	598	727	870	1013	1208	1377					
	55	75								208	286	377	494	611	714	831	987	1137					
	63	85								188	260	299	442	546	637	740	870	1000					
	75	100									208	286	377	455	533	611	727	831	974				
	93	125									170	234	299	364	429	494	585	662	779				
	110	150											260	312	377	429	520	598	701	786			
	130	175											221	266	325	377	442	520	598	688	760		
	150	200												234	279	325	390	455	539	604	669		
	166	225													234	286	338	390	455	520	578		
185	250														260	312	364	429	481	539			
220	300															247	286	331	372	410			
260	350																247	286	325	357			
300	400																	214	247	273	312		

Maximum Length in Meters

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

## Liquid

Cubic meter m <sup>3</sup>	litre l	Milli litre ml	Imp. gallon Imp. Gal	US gallon US gal	cubic foot ft <sup>3</sup>
1	1000	1 x 10 <sup>6</sup>	220	264.2	35.3147
0.001	1	1000	0.22	0.2642	0.0353
1 x 10 <sup>-6</sup>	0.001	1	2.2 X 10 <sup>-4</sup>	2.642 x 10 <sup>-4</sup>	3.53 x 10 <sup>-5</sup>
0.00455	4.546	4546	1	1.201	0.1605
0.00378	3.785	3785	0.8327	1	0.1337
0.0283	28.317	28317	6.2288	7.4805	1

## Liquid Head and Pressure

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

## Length

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

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

## Mass

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

## Temperature

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





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

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

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

The Products currently available include Stainless Steel Submersible Pumps (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.

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