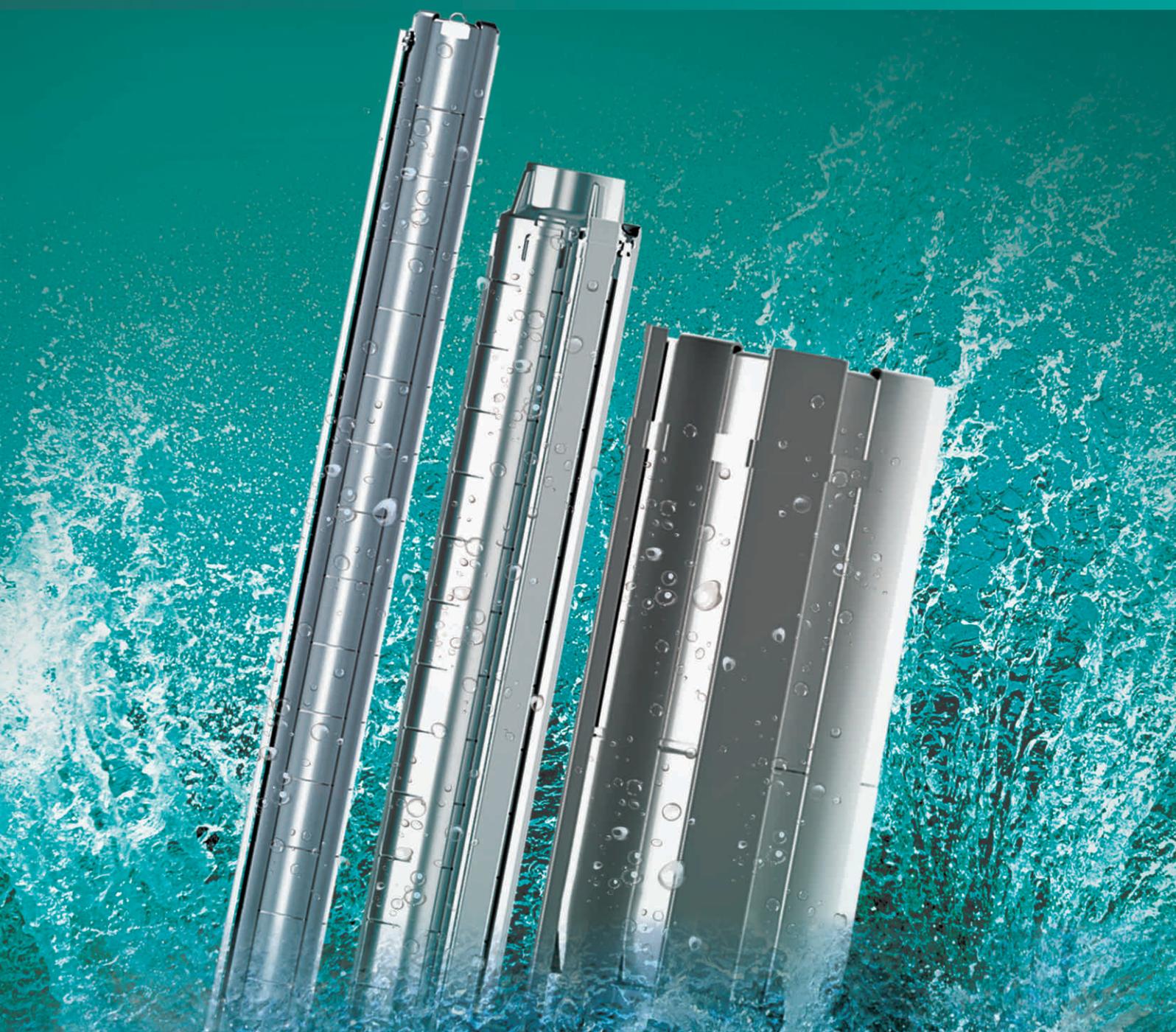




COMPACT, CORROSION-RESISTANT DESIGN WITH PRECISION
Balanced impellers for maximum hydraulic efficiency.



Products from an ISO 9001 COMPANY



THERMOPLASTIC SUBMERSIBLE PUMPS - 50 Hz

INDEX

TP SERIES - THERMOPLASTIC SUBMERSIBLE PUMPS

Construction, Applications & Features	4
Pumped Liquids, Pump Operating Limitations & Model Classification.....	5
Quick Selection : Version TP - 4".....	6
Construction Data of 4" Submersible Pumps.....	7-9
Performance Curves & Data : TP100-1.5 to TP100-18	10-27
Cable Selection Chart	28-29
Conversion Chart.....	30

TP SERIES

GENERAL DATA

THERMOPLASTIC SUBMERSIBLE PUMPS > TP SERIES

Construction

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 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 provide with integral check-valve and NEMA standard coupling. These pumps are available with impeller & diffuser made up of corrosive resistant thermoplastic and the shaft is made of AISI 304. The integral check valve prevent 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 booster systems
- Industrial & Private water supply systems
- Air-conditioning equipments
- Sprinkler systems and Mining water plants
- 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 and aesthetically designed and easily serviceable.

GENERAL DATA

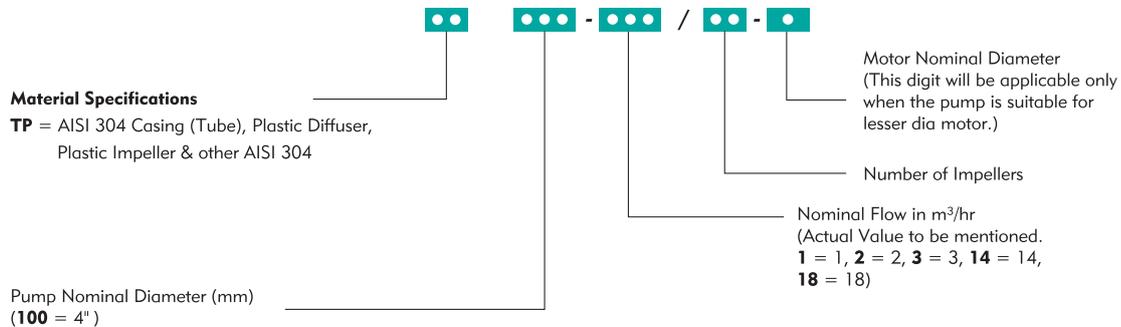
Pumped Liquids

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

a) pH	6.5 to 8.5
b) Turbidity	50 ppm silica scale (max.)
c) Kinematic Viscosity	1 mm ² /S (1cSt) (max.)
d) Hardness (Drinking Water)	300 (max.)
e) Specific gravity	1.004 (max.)
f) Allowable solids	100 g/m ³ (max.)
g) Chlorine ion density	500 ppm (max.)
h) Permissible amount of sand	50 g/m ³ (max.)
l) Temperature	38°C (max.)

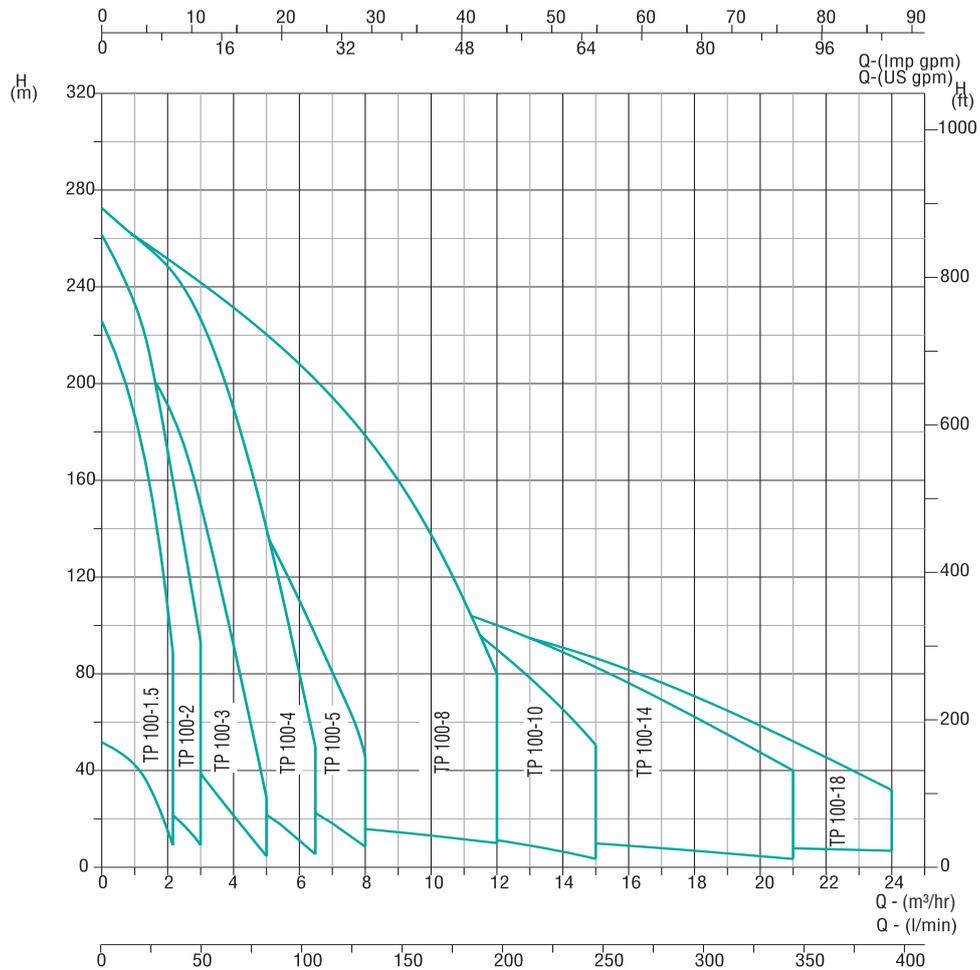
Pump Operating Limitations		TP Series
Nominal Diameter		4"
Power Range		0.37 kW to 7.5 kW
Speed		2900 rpm
Flow Range	lpm	12 - 400
	m ³ /hr	0.75 - 24
Max Recommended Head	ft	13 - 820
	m	4 - 250
Delivery size in mm		32, 40 & 50
Max. Operating Pressure		upto 2.5 Mpa (25 bar)
Horizontal Installation		35°C

Model Classification BOREHOLE SUBMERSIBLE PUMPS



GENERAL DATA

Quick Selection > TP Series > Version TP > 4"



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

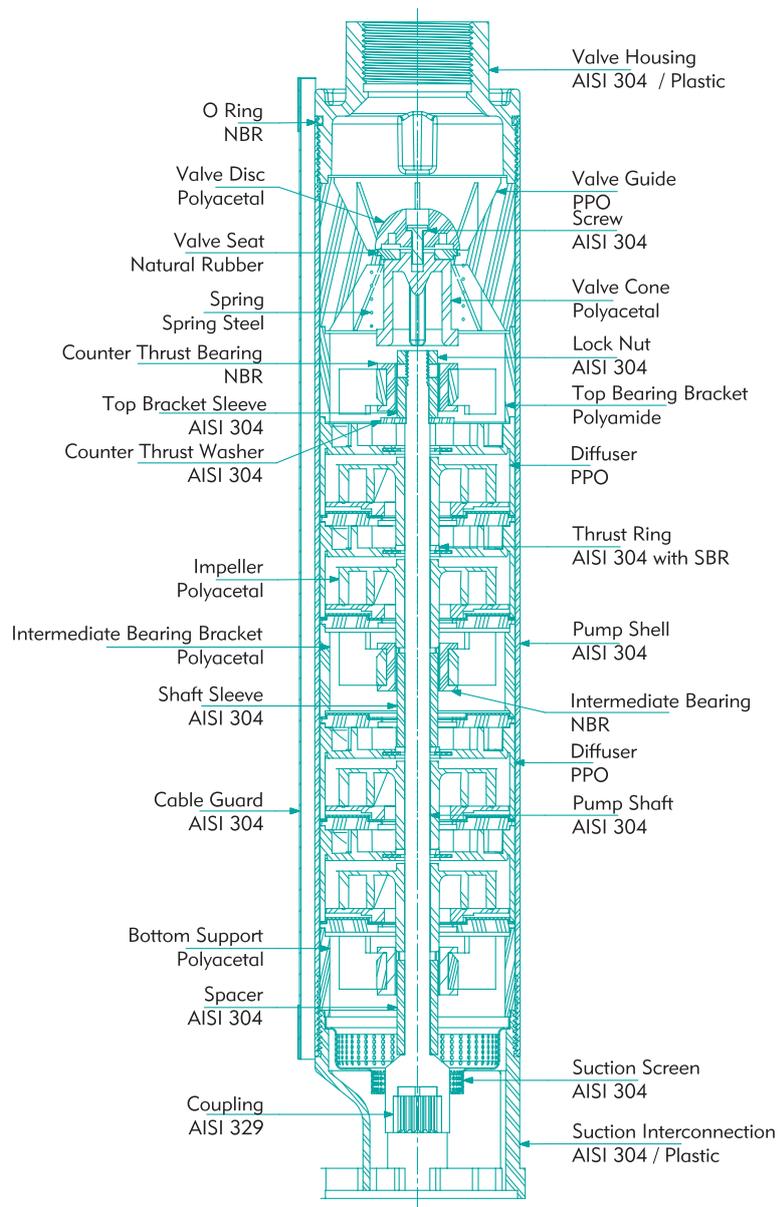
Performance Curve Conditions

a.	The Performance curves show pump performance of the pump at rated speed and voltage. (2900 rpm)	e.	The head and discharge are inclusive of check valve and suction inter-connector losses at the actual speed.
b.	The measurements were made with airless water at 20°C. For pumping liquids with a density higher than that of water, motors with correspondingly higher outputs must be used.	f.	Efficiency curve: ("EFF%") shows pump stage efficiency.
c.	Pipe friction losses have not been included in the performance curves and performance data.	g.	Curve tolerance according to ISO : 9906, Annex-A.
d.	The bold curves indicate the recommended performance range.	h.	The performance are at rated voltage and are only Indicative. Actual discharge depends on availability of water in well, based on strength of water source, height of water column, submergence of pump, etc.,
		i.	The given performance are for a specific materials of construction of pumps.

CONSTRUCTIONAL DATA

1 - 5 m³/hr

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

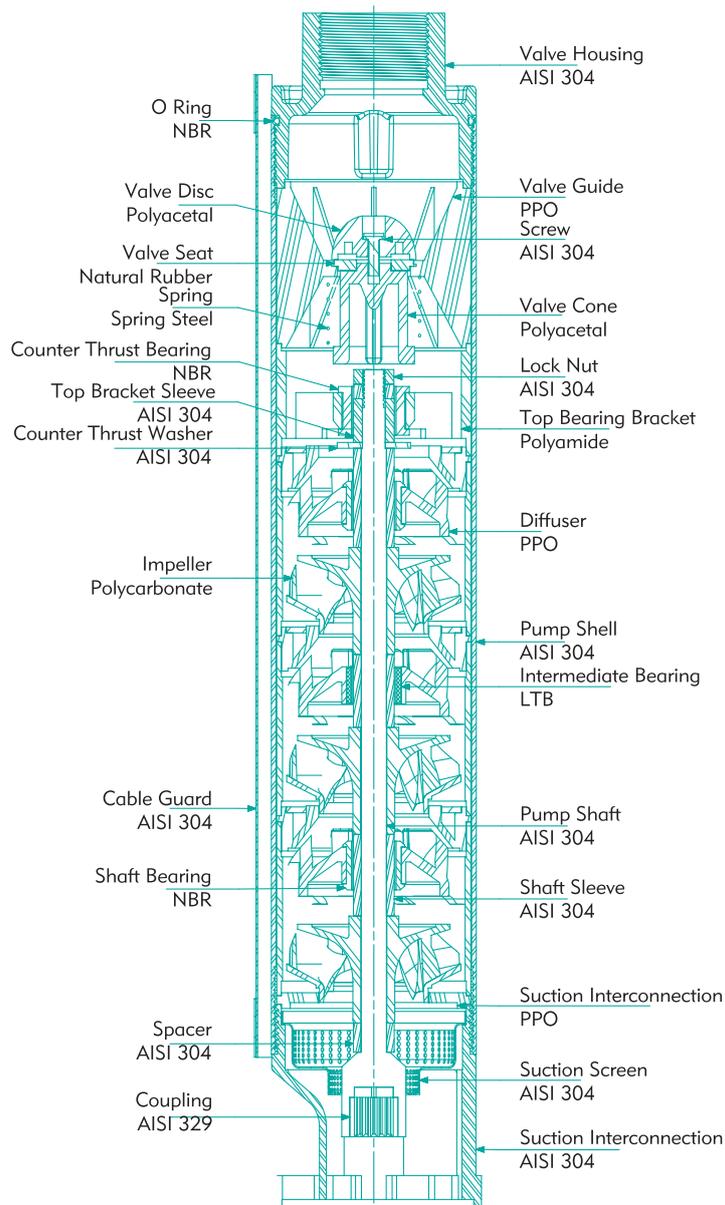


NEMA mounting dimensions.

CONSTRUCTIONAL DATA

10 m³/hr

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

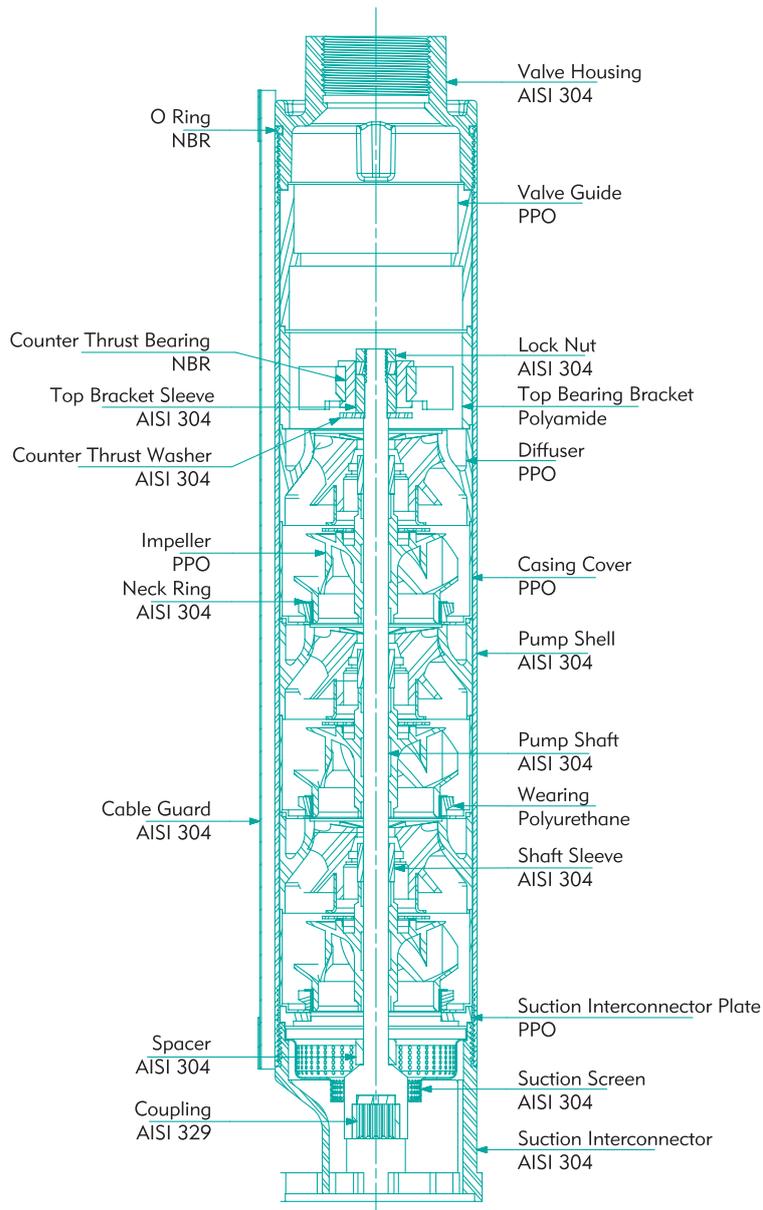


NEMA mounting dimensions.

CONSTRUCTIONAL DATA

14 / 18 m³/hr

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



NEMA mounting dimensions.

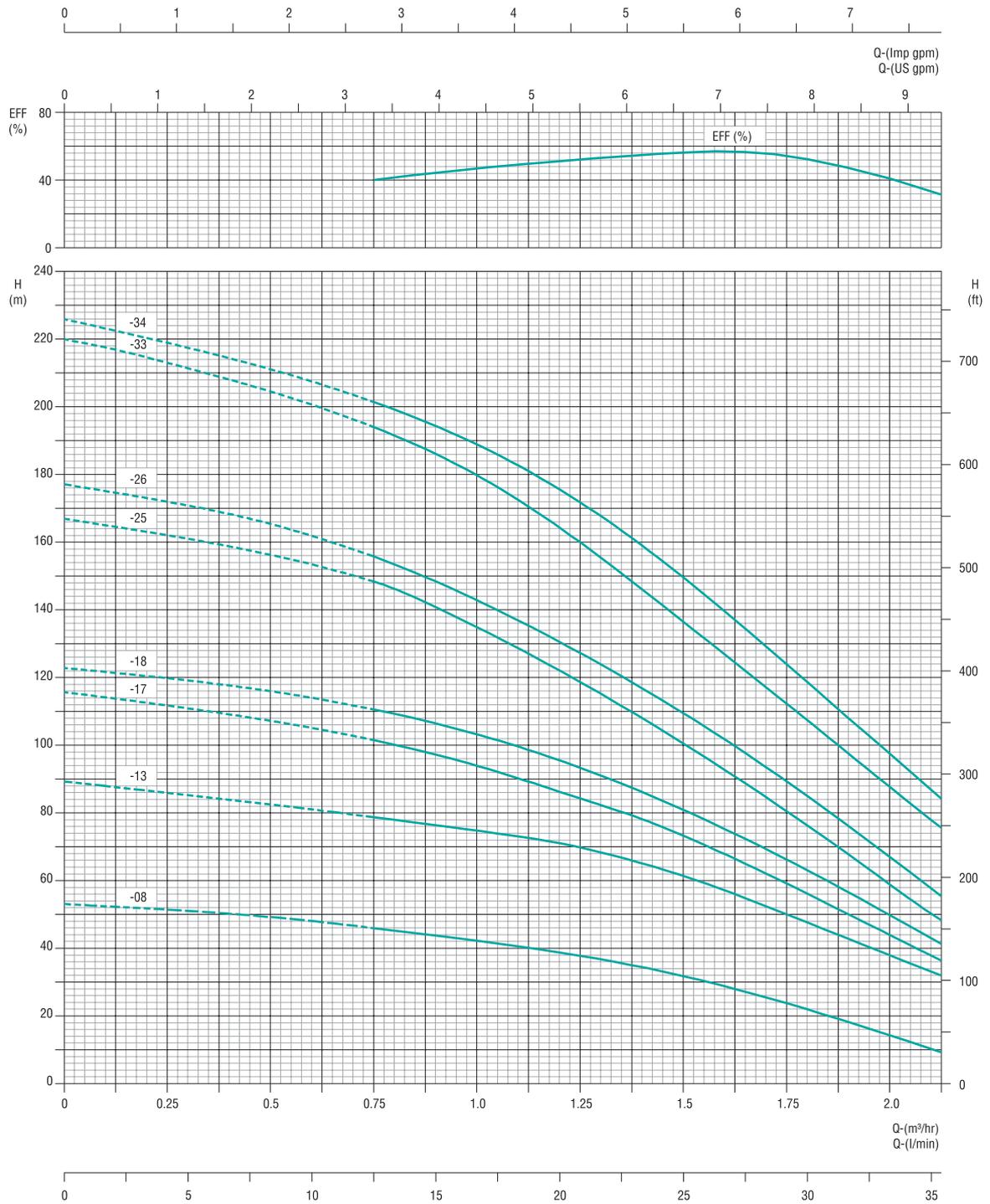
PERFORMANCE CURVES

TP SERIES > 4" > 1.5 m³/hr

Model : **TP100-1.5**

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

2900 rpm



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

PERFORMANCE DATA

TP SERIES > 4" > 1.5 m³/hr

Model : **TP100-1.5**

Outlet Size : 1¼"

2900 rpm

Pump Model	Power		lpm m ³ /hr	0	12.5	16.6	20.8	25	29.1	33.3
	kW	HP		0	0.75	1	1.25	1.50	1.75	2
TP100-1.5-08	0.37	0.5	Total Dynamic Head in Meters	54	46	42	38	32	24	15
TP100-1.5-13	0.55	0.75		89	78	75	70	61	50	38
TP100-1.5-17	0.75	1.0		116	101	94	84	73	59	43
TP100-1.5-18	0.75	1.0		122	111	102	93	81	67	49
TP100-1.5-25	1.1	1.5		166	148	135	118	101	81	59
TP100-1.5-26	1.1	1.5		177	156	143	127	109	89	68
TP100-1.5-33	1.5	2.0		220	199	179	160	136	112	88
TP100-1.5-34	1.5	2.0		226	202	188	172	149	124	98

Nett Weights & Dimensions

Pump Model	Power		Dimensions in mm		Nett Weight (kg)
	kW	HP	D	H	
TP100-1.5-08	0.37	0.5	98	414	3.10
TP100-1.5-13	0.55	0.75	98	524	4.00
TP100-1.5-17	0.75	1.0	98	654	6.20
TP100-1.5-18	0.75	1.0	98	679	6.75
TP100-1.5-25	1.1	1.5	98	860	8.00
TP100-1.5-26	1.1	1.5	98	882	8.25
TP100-1.5-33	1.5	2.0	98	1036	10.00
TP100-1.5-34	1.5	2.0	98	1058	10.20

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



All performance data is based on rated input.

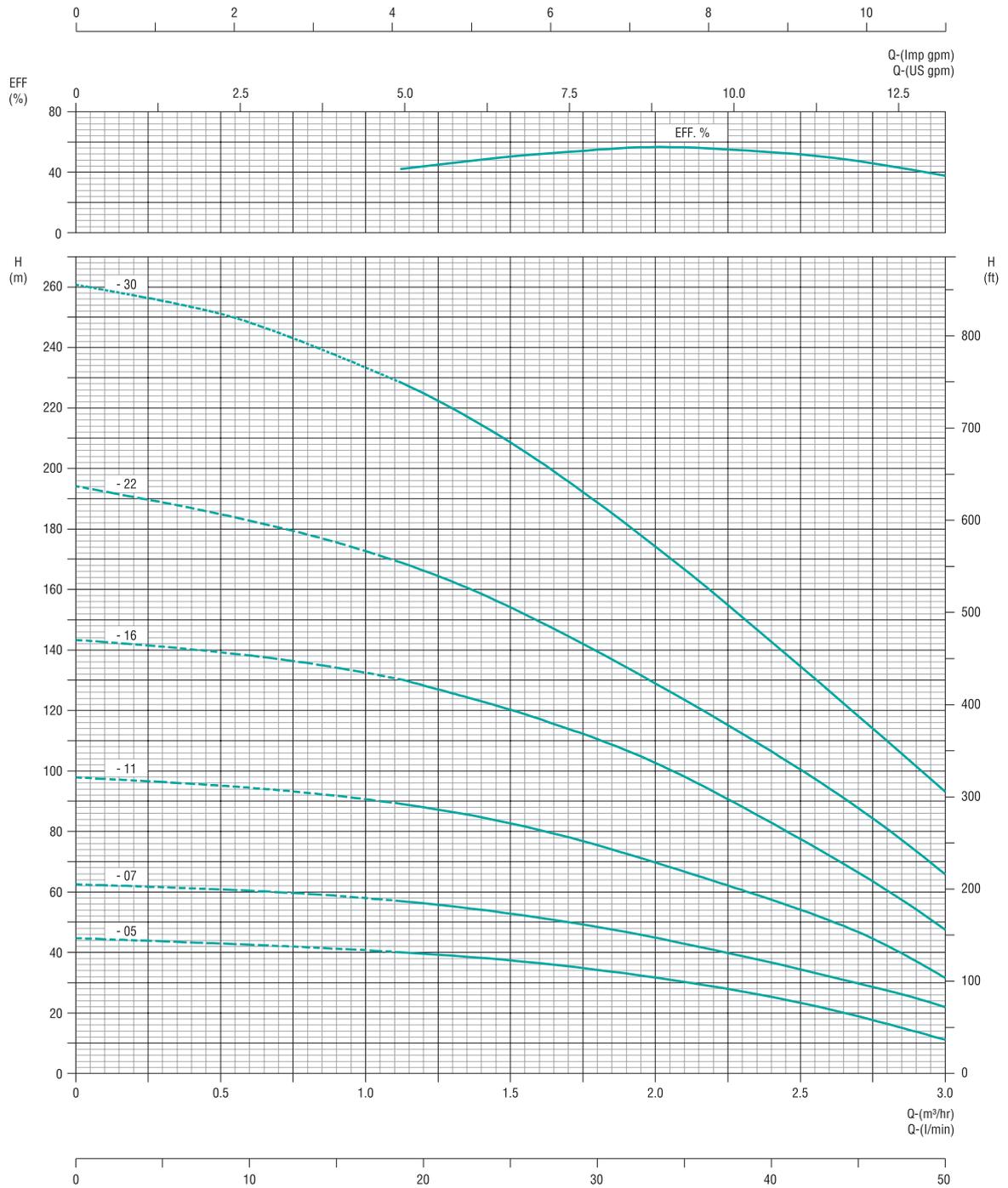
PERFORMANCE CURVES

TP SERIES > 4" > 2 m³/hr

Model : **TP100-2**

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

2900 rpm



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

PERFORMANCE DATA

TP SERIES > 4" > 2 m³/hr

Model : **TP100-2**

Outlet Size : 1 1/4"

2900 rpm

Pump Model	Power		lpm m ³ /hr	0	16.6	25	33.3	41.6	50
	kW	HP		0	1	1.5	2	2.5	3
TP100-2-05	0.37	0.5	Total Dynamic Head in Meters	44	40	38	31	25	13
TP100-2-07	0.55	0.75		62	59	52	45	34	22
TP100-2-11	0.75	1.0		98	90	82	70	53	35
TP100-2-16	1.1	1.5		143	131	119	100	78	48
TP100-2-22	1.5	2.0		194	172	153	129	100	65
TP100-2-30	2.2	3.0		260	232	209	172	135	92

Nett Weights & Dimensions

Pump Model	Power		Dimensions in mm		Nett Weight (kg)
	kW	HP	D	H	
TP100-2-05	0.37	0.5	98	354	2.75
TP100-2-07	0.55	0.75	98	400	3.00
TP100-2-11	0.75	1.0	98	493	3.75
TP100-2-16	1.1	1.5	98	651	6.00
TP100-2-22	1.5	2.0	98	790	7.50
TP100-2-30	2.2	3.0	98	1006	9.50

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



All performance data is based on rated input.

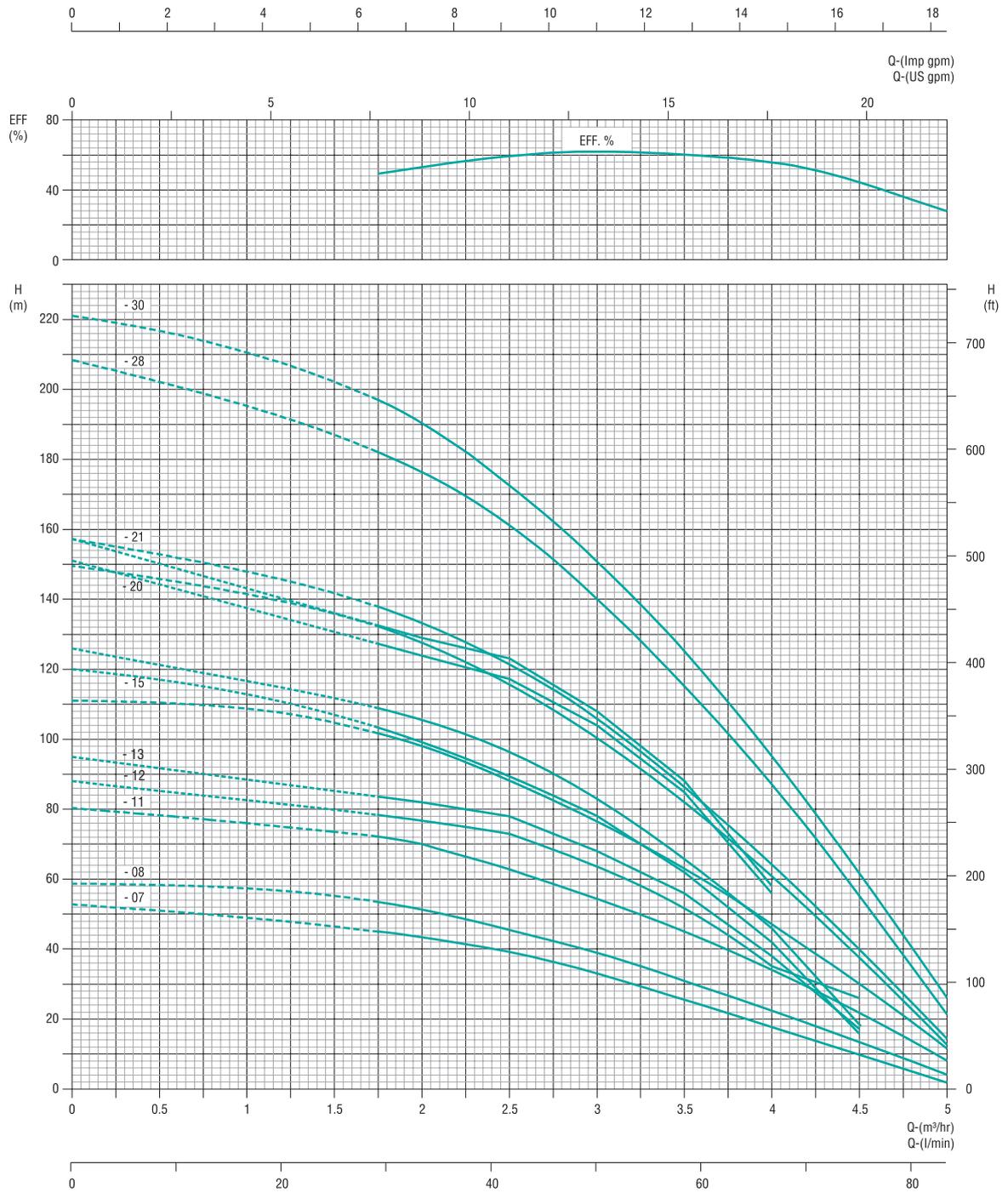
PERFORMANCE CURVES

TP SERIES > 4" > 3 m³/hr

Model : **TP100-3**

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

2900 rpm



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

PERFORMANCE DATA

TP SERIES > 4" > 3 m³/hr

Model : **TP100-3**

Outlet Size : 1¼"

2900 rpm

Pump Model	Power		lpm m ³ /hr	0	33.3	41.6	50	58.3	66.6	75
	kW	HP		0	2	2.5	3	3.5	4	4.5
TP100-3-07	0.55	0.75	Total Dynamic Head in Meters	52	42	38	33	26	18	10
TP100-3-08	0.55	0.75		59	52	45	39	31	22	13
TP100-3-11	0.75	1.0		80	70	62	54	45	34	22
TP100-3-12	0.75	1.0		88	77	73	63	52	35	16
TP100-3-13	0.75	1.0		95	82	78	68	56	38	17
TP100-3-15	1.1	1.5		111	98	88	77	63	48	30
TP100-3-16	1.1	1.5		120	99	90	78	62	42	17
TP100-3-17	1.1	1.5		126	105	96	82	66	46	18
TP100-3-20	1.5	2.0		150	128	116	101	82	61	38
TP100-3-21	1.5	2.0		157	133	121	107	86	63	40
TP100-3-22	1.5	2.0		151	124	117	104	85	56	
TP100-3-23	1.5	2.0		157	129	123	108	88	58	
TP100-3-28	2.2	3.0		208	177	161	141	115	88	55
TP100-3-30	2.2	3.0		221	190	172	151	125	96	62

Nett Weights & Dimensions

Pump Model	Power		Dimensions in mm		Nett Weight (kg)
	kW	HP	D	H	
TP100-3-07	0.55	0.75	98	426	2.50
TP100-3-08	0.55	0.75	98	453	2.75
TP100-3-11	0.75	1.0	98	533	3.75
TP100-3-12	0.75	1.0	98	560	4.07
TP100-3-13	0.75	1.0	98	590	4.22
TP100-3-15	1.1	1.5	98	671	5.25
TP100-3-16	1.1	1.5	98	680	4.82
TP100-3-17	1.1	1.5	98	730	6.69
TP100-3-20	1.5	2.0	98	818	7.00
TP100-3-21	1.5	2.0	98	844	7.25
TP100-3-22	1.5	2.0	98	860	7.44
TP100-3-23	1.5	2.0	98	890	7.75
TP100-3-28	2.2	3.0	98	1063	10.00
TP100-3-30	2.2	3.0	98	1117	10.30



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

All performance data is based on rated input.

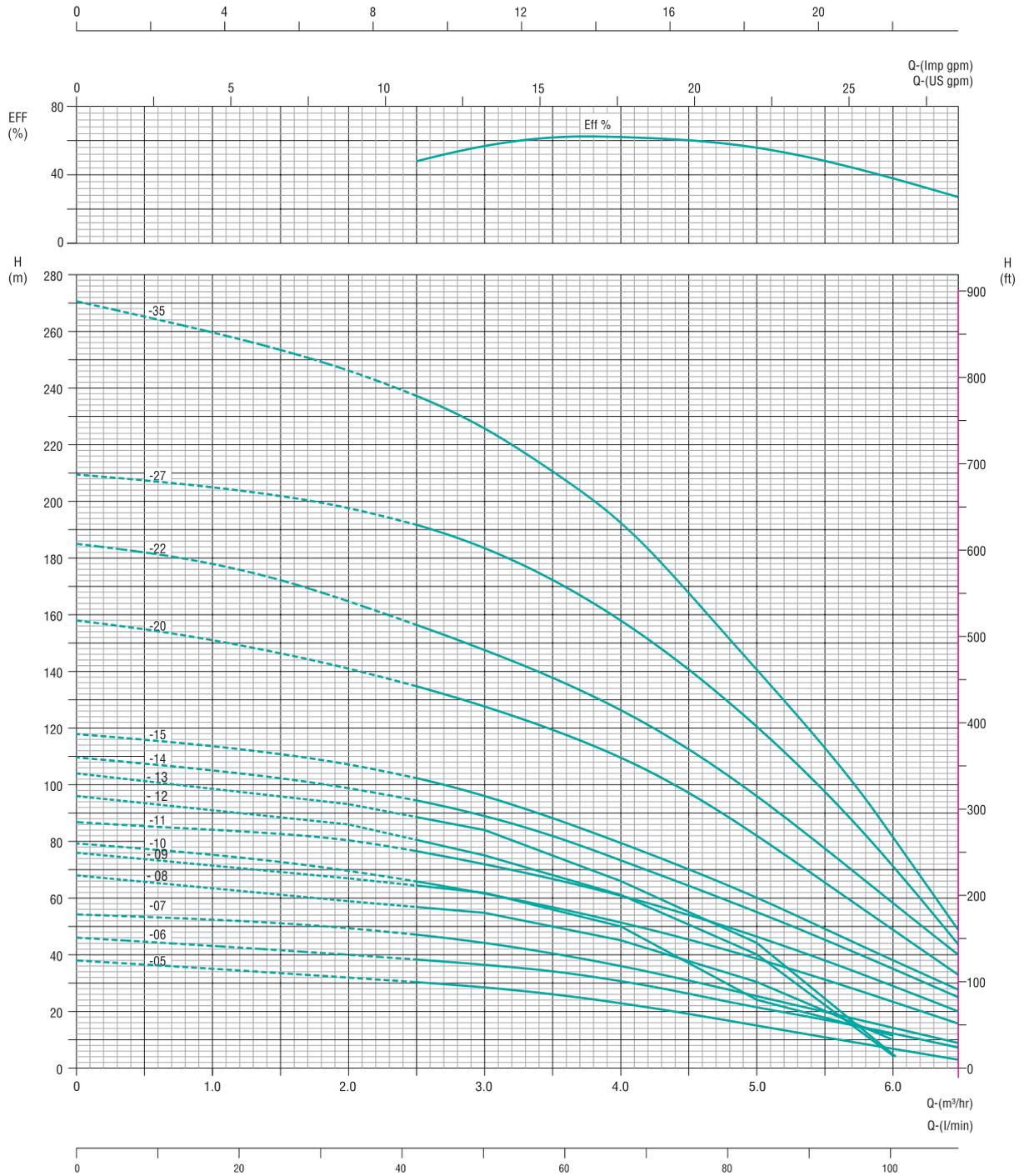
PERFORMANCE CURVES

TP SERIES > 4" > 4 m³/hr

Model : **TP100-4**

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

2900 rpm



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

PERFORMANCE DATA

TP SERIES > 4" > 4 m³/hr

Model : **TP100-4**

Outlet Size : 1¼"

2900 rpm

Pump Model	Power		lpm m ³ /hr	0	33.3	50	66.6	83.4	100	108.3
	kW	HP		0	2	3	4	5	6	6.5
TP100-4-05	0.55	0.75	Total Dynamic Head in Meters	38	32	28	22	15	8	4
TP100-4-06	0.55	0.75		46	40	37	31	21	12	8
TP100-4-07	0.75	1.0		54	49	44	37	25	14	9
TP100-4-08	0.75	1.0		68	59	55	45	31	10	
TP100-4-09	0.75	1.0		76	67	62	51	24	11	
TP100-4-10	1.1	1.5		79	69	62	51	39	22	16
TP100-4-11	1.1	1.5		86	77	72	61	47	29	20
TP100-4-12	1.1	1.5		96	86	77	61	40	4	
TP100-4-13	1.1	1.5		104	93	84	66	44	4	
TP100-4-14	1.5	2.0		110	99	89	73	55	35	26
TP100-4-15	1.5	2.0		118	108	96	79	60	38	28
TP100-4-20	2.2	3.0		158	141	128	110	82	49	34
TP100-4-22	2.2	3.0		185	165	148	128	98	58	40
TP100-4-27	3.0	4.0		210	198	183	159	120	71	44
TP100-4-35	3.7	5.0		270	248	228	192	140	81	49

Nett Weights & Dimensions

Pump Model	Power		Dimensions in mm		Nett Weight (kg)
	kW	HP	D	H	
TP100-4-05	0.55	0.75	98	383	1.75
TP100-4-06	0.55	0.75	98	412	2.10
TP100-4-07	0.75	1.0	98	441	2.45
TP100-4-08	0.75	1.0	98	470	3.40
TP100-4-09	0.75	1.0	98	500	3.60
TP100-4-10	1.1	1.5	98	528	3.50
TP100-4-11	1.1	1.5	98	557	4.90
TP100-4-12	1.1	1.5	98	585	4.20
TP100-4-13	1.1	1.5	98	615	4.38
TP100-4-14	1.5	2.0	98	674	4.90
TP100-4-15	1.5	2.0	98	703	5.25
TP100-4-20	2.2	3.0	98	860	7.00
TP100-4-22	2.2	3.0	98	918	8.00
TP100-4-27	3.0	4.0	98	1093	9.35
TP100-4-35	3.7	5.0	98	1325	12.15



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

All performance data is based on rated input.

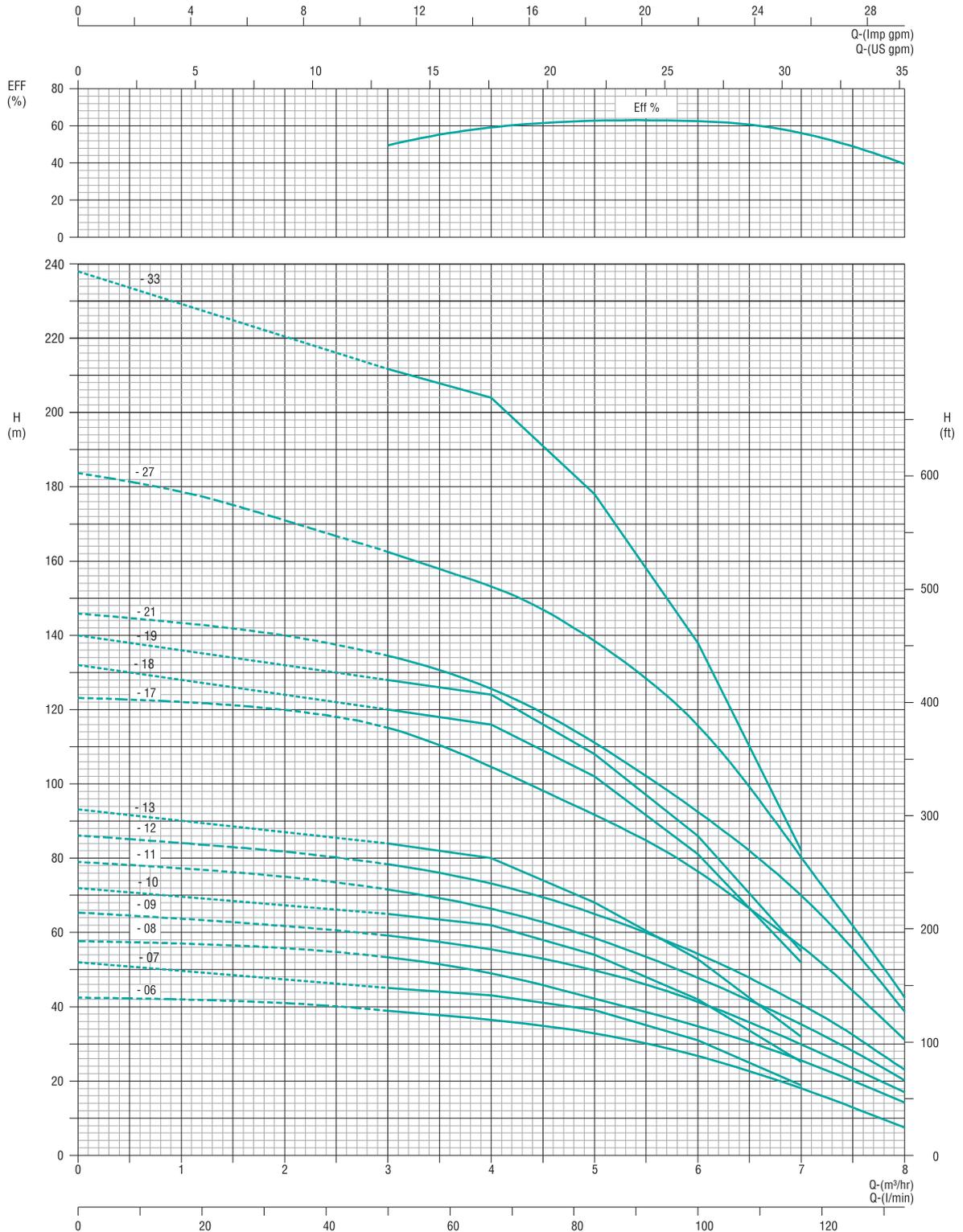
PERFORMANCE CURVES

TP SERIES > 4" > 5 m³/hr

Model : **TP100-5**

Outlet Size : **1½"**

2900 rpm



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

PERFORMANCE DATA

TP SERIES > 4" > 5 m³/hr

Model : **TP100-5**

Outlet Size : 1½"

2900 rpm

Pump Model	Power		lpm m ³ /hr	0	50	66.6	83.4	100	116.6
	kW	HP		0	3	4	5	6	7
TP100-5-06	0.75	1.0	Total Dynamic Head in Meters	42	39	37	32	27	9
TP100-5-07	0.75	1.0		52	45	43	39	31	19
TP100-5-08	1.1	1.5		58	53	49	42	34	15
TP100-5-09	1.1	1.5		65	59	55	50	41	17
TP100-5-10	1.1	1.5		72	65	62	54	42	25
TP100-5-11	1.5	2.0		79	72	67	58	48	20
TP100-5-12	1.5	2.0		86	78	73	65	55	25
TP100-5-13	1.5	2.0		93	84	80	68	53	32
TP100-5-17	2.2	3.0		123	115	105	91	76	31
TP100-5-18	2.2	3.0		132	120	116	102	81	52
TP100-5-19	2.2	3.0		140	128	124	108	86	55
TP100-5-21	3.0	4.0		145	135	126	111	92	39
TP100-5-27	3.7	5.0		195	174	169	144	112	69
TP100-5-33	4.0	5.5		238	212	204	178	138	82

Nett Weights & Dimensions

Pump Model	Power		Dimensions in mm		Nett Weight (kg)
	kW	HP	D	H	
TP100-5-06	0.75	1.0	98	459	3.0
TP100-5-07	0.75	1.0	98	500	3.59
TP100-5-08	1.1	1.5	98	533	3.75
TP100-5-09	1.1	1.5	98	570	4.20
TP100-5-10	1.1	1.5	98	610	3.99
TP100-5-11	1.5	2.0	98	643	5.10
TP100-5-12	1.5	2.0	98	680	5.60
TP100-5-13	1.5	2.0	98	720	7.53
TP100-5-17	2.2	3.0	98	907	7.90
TP100-5-18	2.2	3.0	98	915	8.74
TP100-5-19	2.2	3.0	98	970	9.11
TP100-5-21	3.0	4.0	98	1054	10.00
TP100-5-27	3.7	5.0	98	1300	10.91
TP100-5-33	4.0	5.5	98	1515	13.33



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

All performance data is based on rated input.

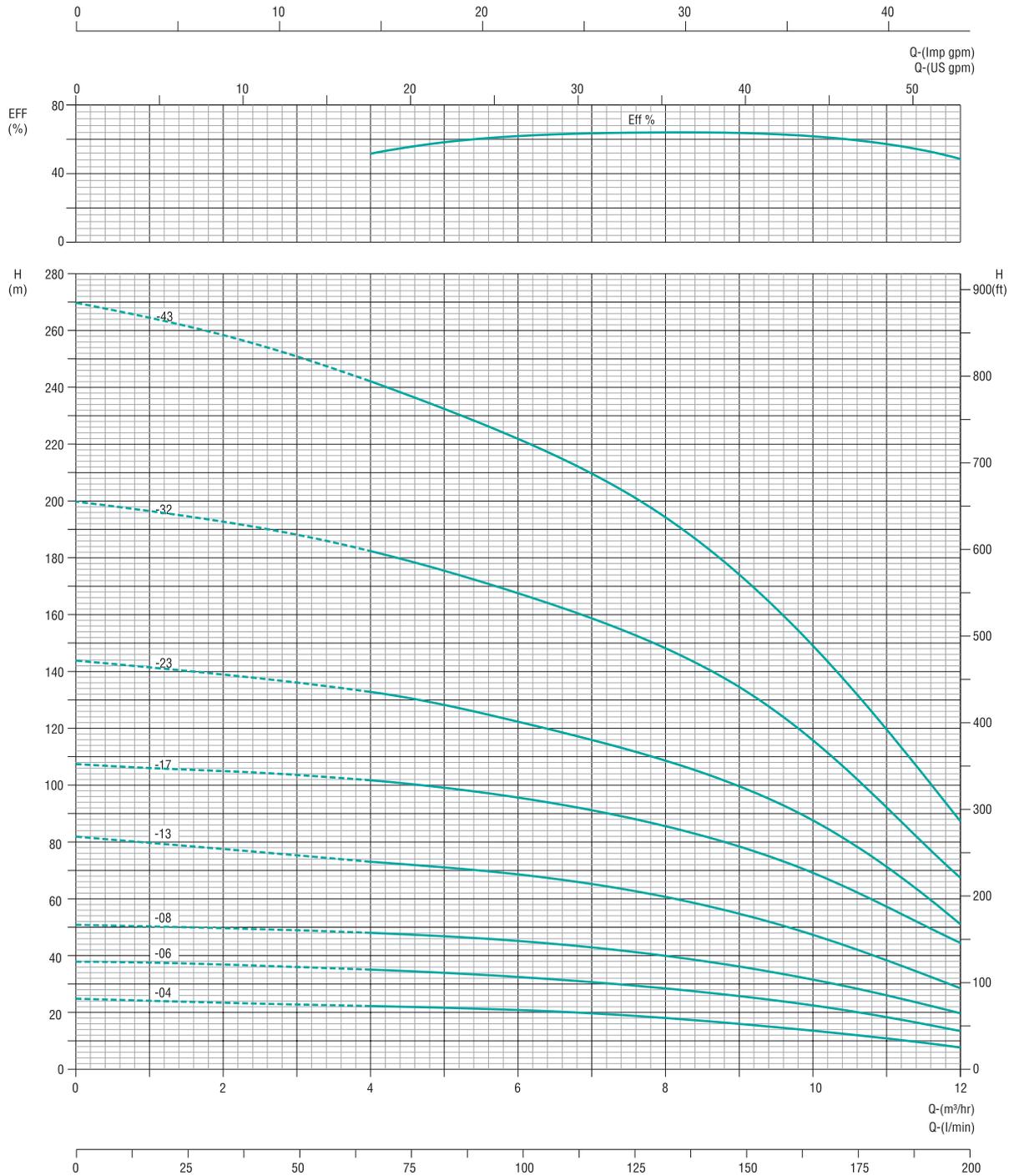
PERFORMANCE CURVES

TP SERIES > 4" > 8 m³/hr

Model : **TP100-8**

Outlet Size : **2"**

2900 rpm



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

PERFORMANCE DATA

TP SERIES > 4" > 8 m³/hr

Model : **TP100-8**

Outlet Size : **2"**

2900 rpm

Pump Model	Power		lpm m ³ /hr	0	66.6	100	133.2	166.8	200
	kW	HP		0	4	6	8	10	12
TP100-8-04	0.75	1.0	Total Dynamic Head in Meters	25	21	20	19	14	8
TP100-8-06	1.1	1.5		38	35	32	28	22	13
TP100-8-08	1.5	2.0		51	48	45	40	31	20
TP100-8-13	2.2	3.0		82	72	69	61	48	29
TP100-8-17	3.0	4.0		108	101	96	85	69	43
TP100-8-23	4.0	5.5		143	132	122	109	88	52
TP100-8-32	5.5	7.5		200	182	168	148	116	68
TP100-8-43	7.5	10		270	242	221	193	149	88

Nett Weights & Dimensions

Pump Model	Power		Dimensions in mm		Nett Weight (kg)
	kW	HP	D	H	
TP100-8-04	0.75	1.0	98	374	4
TP100-8-06	1.1	1.5	98	436	4
TP100-8-08	1.5	2.0	98	498	3
TP100-8-13	2.2	3.0	98	653	7
TP100-8-17	3.0	4.0	98	807	8
TP100-8-23	4.0	5.5	98	993	10
TP100-8-32	5.5	7.5	98	1302	13
TP100-8-43	7.5	10	98	1643	18

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



All performance data is based on rated input.

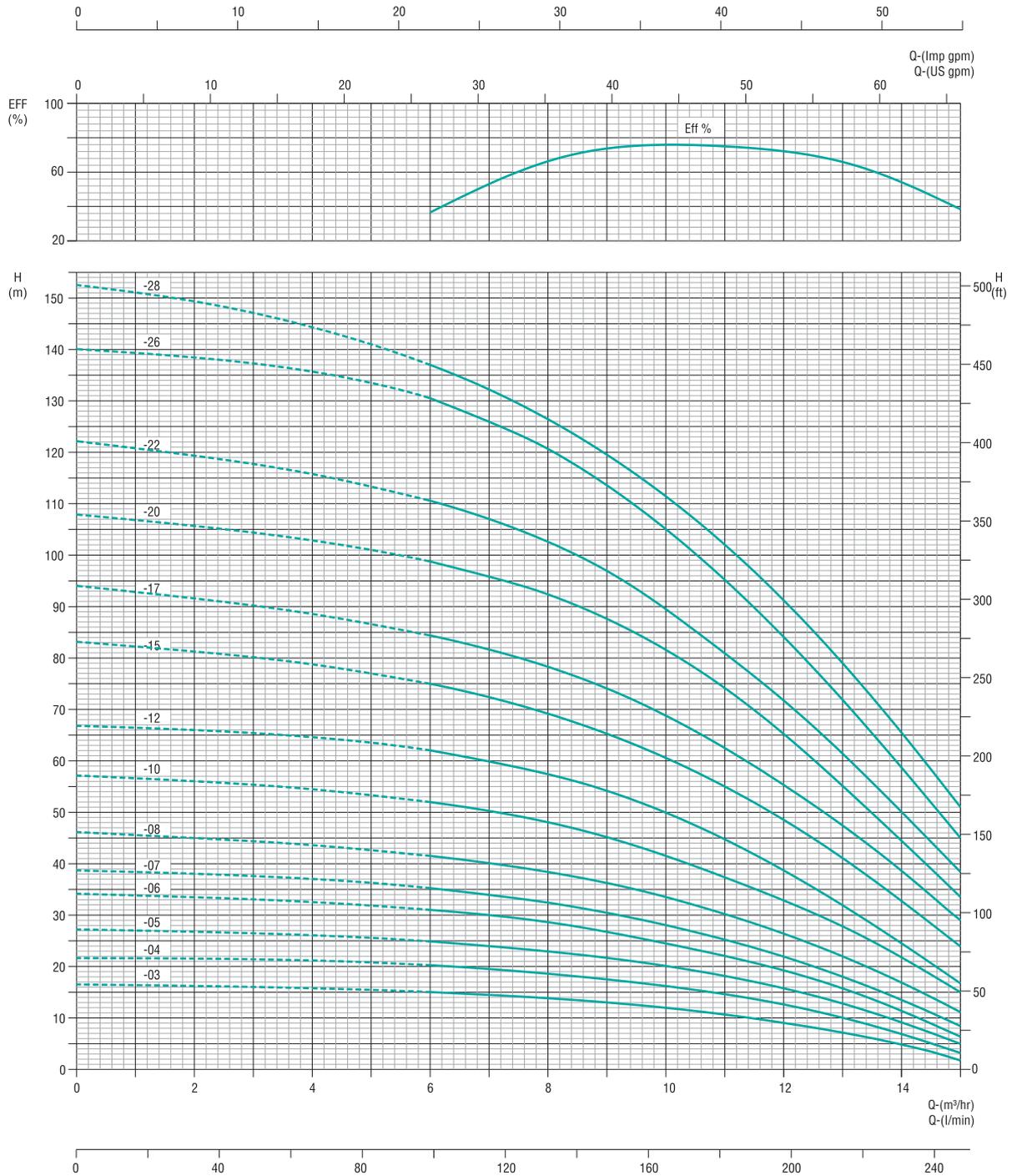
PERFORMANCE CURVES

TP SERIES > 4" > 10 m³/hr

Model : **TP100-10**

Outlet Size : **2"**

2900 rpm



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

PERFORMANCE DATA

TP SERIES > 4" > 10 m³/hr

Model : **TP100-10**

Outlet Size : **2"**

2900 rpm

Pump Model	Power		lpm m ³ /hr	0	66.6	100	133.3	166.6	200	233.4
	kW	HP		0	4	6	8	10	12	14
TP100-10-03	0.75	1.0	Total Dynamic Head in Meters	17	16	15	14	12	9	5
TP100-10-04	0.75	1.0		22	21	20	18	16	13	7
TP100-10-05	1.1	1.5		27	26	25	23	20	16	9
TP100-10-06	1.1	1.5		34	33	31	28	24	19	12
TP100-10-07	1.5	2.0		39	37	35	33	28	22	14
TP100-10-08	1.5	2.0		46	43	42	38	33	27	17
TP100-10-10	2.2	3.0		57	54	52.5	48	42	33	22
TP100-10-12	2.2	3.0		66	64	62.5	57	50	39	25
TP100-10-15	3.0	4.0		83	78	75	69	61	48	33
TP100-10-17	3.0	4.0		94	88	84	78	69	55	39
TP100-10-20	4.0	5.5		107	102	98	92.5	82	65	45
TP100-10-22	4.0	5.5		122	116	111	102.5	90	72	50
TP100-10-26	5.5	7.5		140	136	130	122	107	85	59
TP100-10-28	5.5	7.5		153	144	137	127	112	91	65

Nett Weights & Dimensions

Pump Model	Power		Dimensions in mm		Nett Weight (kg)
	kW	HP	D	H	
TP100-10-03	0.75	1.0	98	448	3
TP100-10-04	0.75	1.0	98	450	3
TP100-10-05	1.1	1.5	98	562	4
TP100-10-06	1.1	1.5	98	570	5
TP100-10-07	1.5	2.0	98	676	5
TP100-10-08	1.5	2.0	98	690	6
TP100-10-10	2.2	3.0	98	790	8
TP100-10-12	2.2	3.0	98	904	9
TP100-10-15	3.0	4.0	98	1075	11
TP100-10-17	3.0	4.0	98	1189	13
TP100-10-20	4.0	5.5	98	1360	15
TP100-10-22	4.0	5.5	98	1474	17
TP100-10-26	5.5	7.5	98	1702	20
TP100-10-28	5.5	7.5	98	1816	21



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

All performance data is based on rated input.

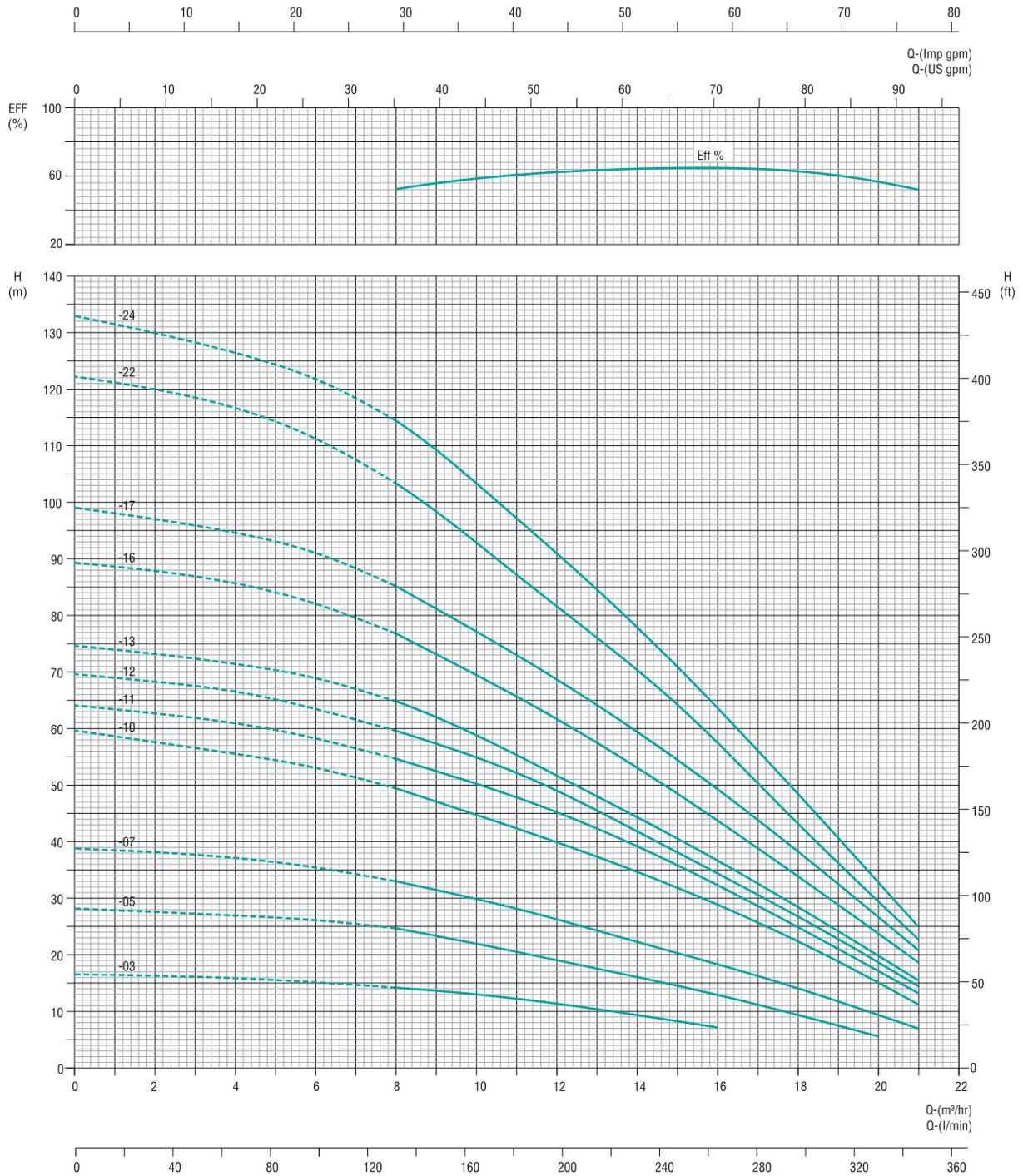
PERFORMANCE CURVES

TP SERIES > 4" > 14 m³/hr

Model : **TP100-14**

Outlet Size : **2"**

2900 rpm



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

PERFORMANCE DATA

TP SERIES > 4" > 14 m³/hr

Model : **TP100-14**

Outlet Size : **2"**

2900 rpm

Pump Model	Power		lpm m ³ /hr	0	133.2	166.8	200	233.4	266.4	300	333.6
	kW	HP		0	8	10	12	14	16	18	20
TP100-14-03	0.75	1.0	Total Dynamic Head in Meters	17	14	13	12	9	7	-	-
TP100-14-05	1.1	1.5		28	24	22	19	16	14	9	6
TP100-14-07	1.5	2.0		38	33	30	26	22	18	14	9
TP100-14-10	2.2	3.0		59	49	45	40	34	29	22	15
TP100-14-11	2.2	3.0		64	59	50	45	39	33	25	17
TP100-14-12	3.0	4.0		69	59	55	48	43	34	27	18
TP100-14-13	3.0	4.0		74	65	58	52	44	36	29	20
TP100-14-16	3.7	5.0		89	77	69	62	53	44	34	24
TP100-14-17	3.7	5.0		98	85	77	68	59	49	38	27
TP100-14-22	5.5	7.5		123	104	93	82	70	57	43	29
TP100-14-24	5.5	7.5		134	114	104	92	78	64	49	33

Nett Weights & Dimensions

Pump Model	Power		Dimensions in mm		Nett Weight (kg)
	kW	HP	D	H	
TP100-14-03	0.75	1	98	463	3
TP100-14-05	1.1	1.5	98	610	4
TP100-14-07	1.5	2	98	775	6
TP100-14-10	2.2	3	98	1009	9
TP100-14-11	2.2	3	98	1087	10
TP100-14-12	3	4	98	1165	10
TP100-14-13	3	4	98	1243	11
TP100-14-16	3.7	5	98	1477	14
TP100-14-17	3.7	5	98	1555	14
TP100-14-22	5.5	7.5	98	1945	29
TP100-14-24	5.5	7.5	98	2101	33

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



All performance data is based on rated input.

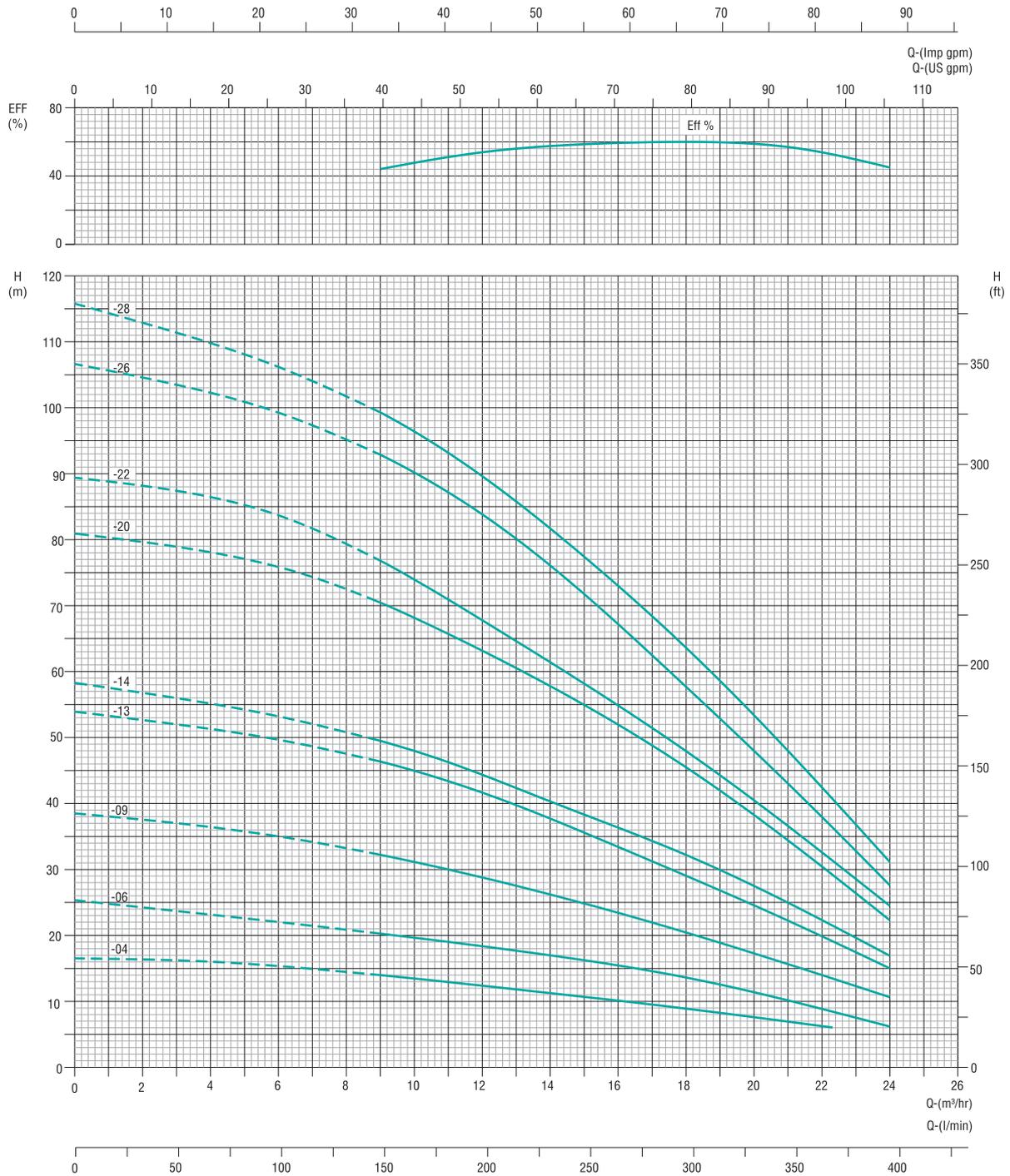
PERFORMANCE CURVES

TP SERIES > 4" > 18 m³/hr

Model : **TP100-18**

Outlet Size : **2"**

2900 rpm



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

PERFORMANCE DATA

TP SERIES > 4" > 18 m³/hr

Model : **TP100-18**

Outlet Size : **2"**

2900 rpm

Pump Model	Power		lpm m ³ /hr	0	166.8	199.8	231.6	264.4	300	333.6	366.6
	kW	HP		0	10	12	14	16	18	20	22
TP100-18-04	1.1	1.5	Total Dynamic Head in Meters	17	14	13	11	10	9	8	6
TP100-18-06	1.5	2.0		26	19	18	17	16	14	11	9
TP100-18-09	2.2	3.0		38	31	29	27	24	21	17	14
TP100-18-13	3.7	5.0		54	45	42	38	34	28	24	20
TP100-18-14	4.0	5.5		58	48	44	41	37	33	27	23
TP100-18-20	5.5	7.5		81	68	63	57	52	46	38	30
TP100-18-22	5.5	7.5		89	74	71	61	55	48	41	32
TP100-18-26	7.5	10.0		106	90	87	76	67	57	47	38
TP100-18-28	7.5	10.0		116	97	89	82	73	64	54	43

Nett Weights & Dimensions

Pump Model	Power		Dimensions in mm		Nett Weight (kg)
	kW	HP	D	H	
TP100-18-04	1.1	1.5	98	407	4
TP100-18-06	1.5	2.0	98	648	5
TP100-18-09	2.2	3.0	98	860	7
TP100-18-13	3.7	5.0	98	1142	10
TP100-18-14	4.0	5.5	98	1213	11
TP100-18-20	5.5	7.5	98	1687	16
TP100-18-22	5.5	7.5	98	1778	18
TP100-18-26	7.5	10	98	2060	19
TP100-18-28	7.5	10	98	2201	22

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



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							
380 - 415 VOLT 50Hz	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 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 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 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 ⁻⁶	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,

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