



THE TOUGH ONE

Rugged construction coupled with optimal design parameters make the Bore Hole Submersible Pump a star performer.



CAST IRON
SUBMERSIBLE PUMPS - **50Hz**

● Products from an ISO 9001 COMPANY

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CS SERIES - CAST IRON SUBMERSIBLE PUMPS

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GENERAL DATA

CAST IRON SUBMERSIBLE PUMPS > CB SERIES

Construction

Tormac cast iron 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 provided with integral check-valve and NEMA standard coupling. These pumps are available with impellers made of bronze, diffusers made up of cast iron and the shaft is made of AISI 410/431. The integral check valve prevents back flow, up thrust and reduces the risk of water hammer which paves the way for trouble free performance. The suction screen is designed with utmost care so as not to reduce the inflow of water and at the same time to prevent damage to the pump and clogging due to the entry of sand and other foreign particles.

Applications

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

Features

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

GENERAL DATA

Pumped Liquids

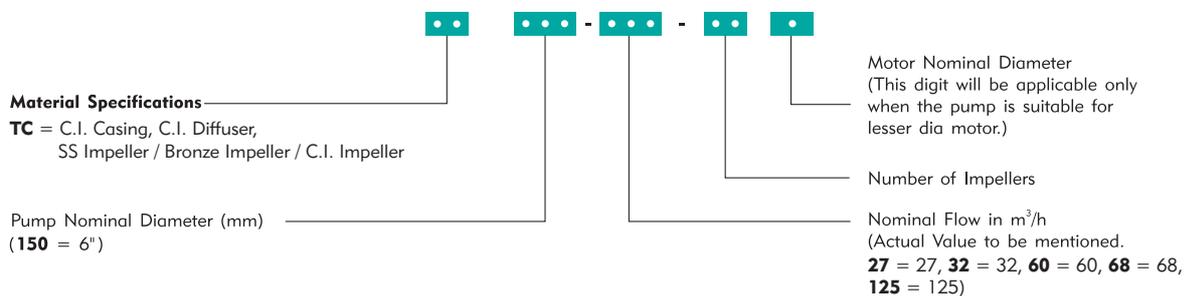
Clean, thin, non-aggressive, non explosive, pure, cold, fresh water without abrasives solid particles or fibre having the following characteristics.

a) pH	6.5 to 8.5
b) Turbidity	50 ppm silica scale (max.)
c) Viscosity	1.75 x 10 ⁶ m ² / sec (max.)
d) Hardness (Drinking Water)	300 (max.)
e) Specific gravity	1.004 (max.)
f) Allowable solids	3000 ppm (max.)
g) Chlorine ion density	500 ppm (max.)
h) Permissible amount of sand	50g / m ³ (max.)
i) Temperature	38°C (max.)

Pump Operating Limitations

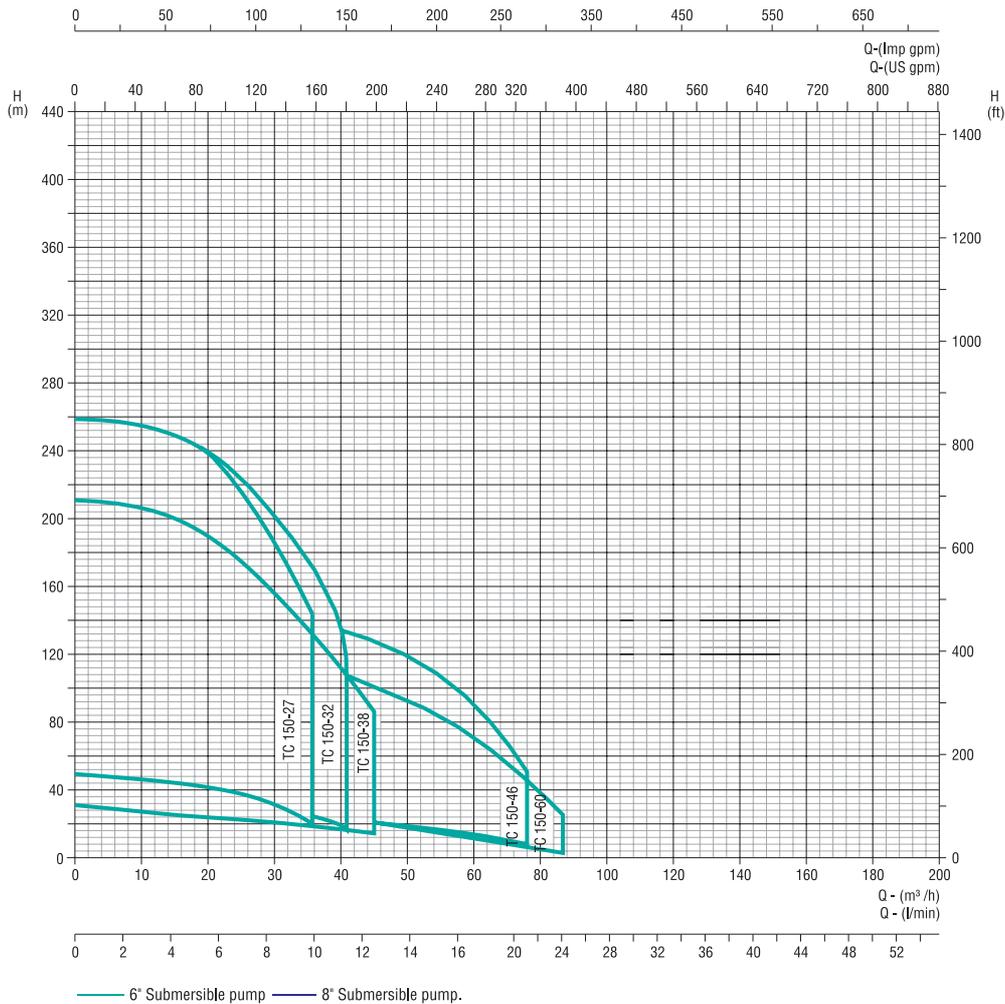
Nominal Diameter		6"
Power Range		3.7kW - 26kW
Speed		2900 rpm
Flow Range	lpm	150 - 1383.3
	m ³ /h	9 - 83
Max. Recommended Head	ft	6.5 - 902
	m	2 - 272
Delivery size in mm		80 & 100
Max. Operating Pressure		2.75 Mpa (27.5 bar)
Horizontal Installation		Minimum - 30° angle

Model Classification > BOREHOLE SUBMERSIBLE PUMPS



GENERAL DATA

Quick Selection > CB Series > Version TC > 6"



Performance Curve Conditions

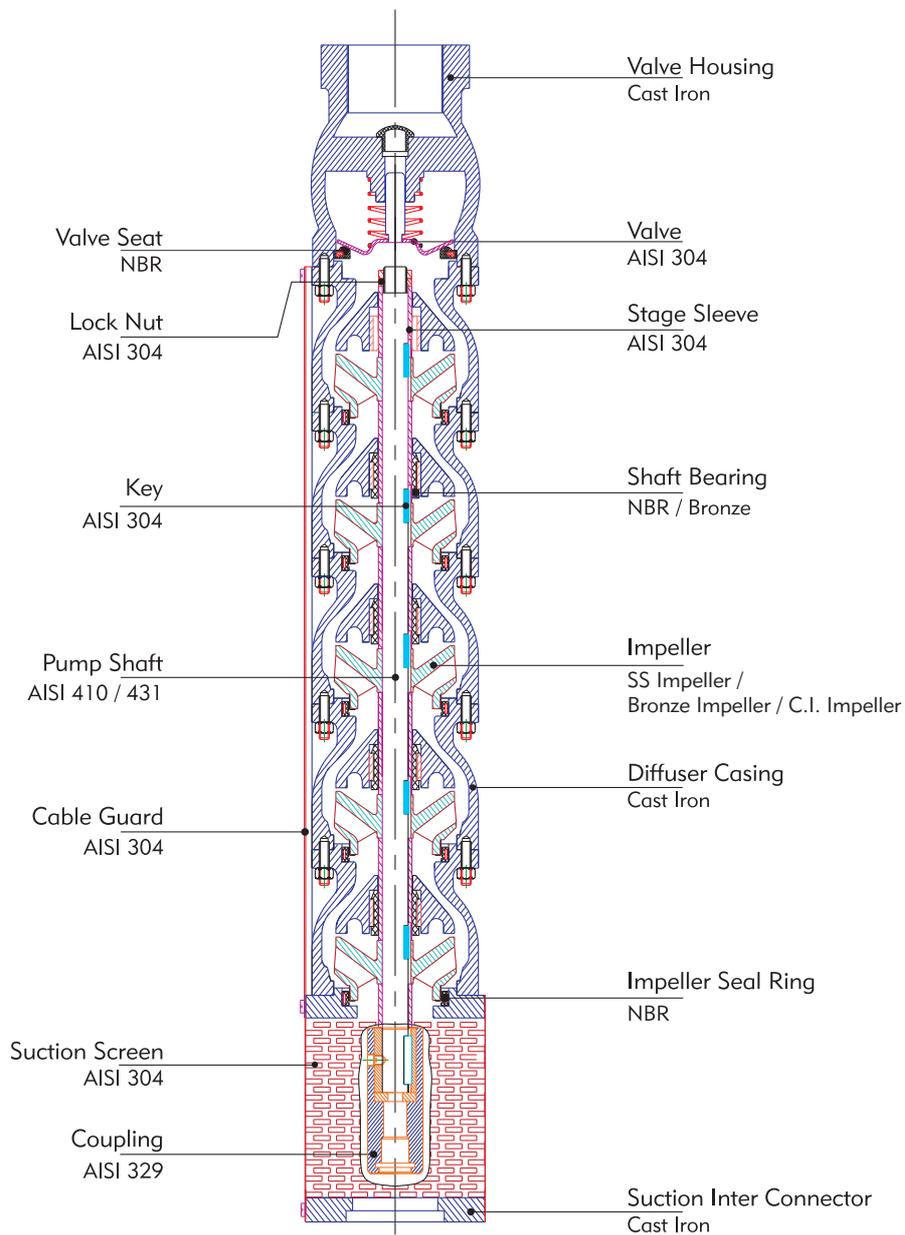
a.	The Performance curves show performance of the pump at rated speed and voltage. (2900 rpm)	e.	The head and discharge curves are inclusive of check valve and suction inter-connector losses at the actual speed.
b.	The measurements were made with airless water at 20°C. For pumping liquids with a density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

Available types of materials of construction : TC

CONSTRUCTIONAL DATA

27 - 60 m³/h

6" > CB Series > Version TC > Constructional Data of Semi - Axial Flow Pump



NEMA mounting dimensions.

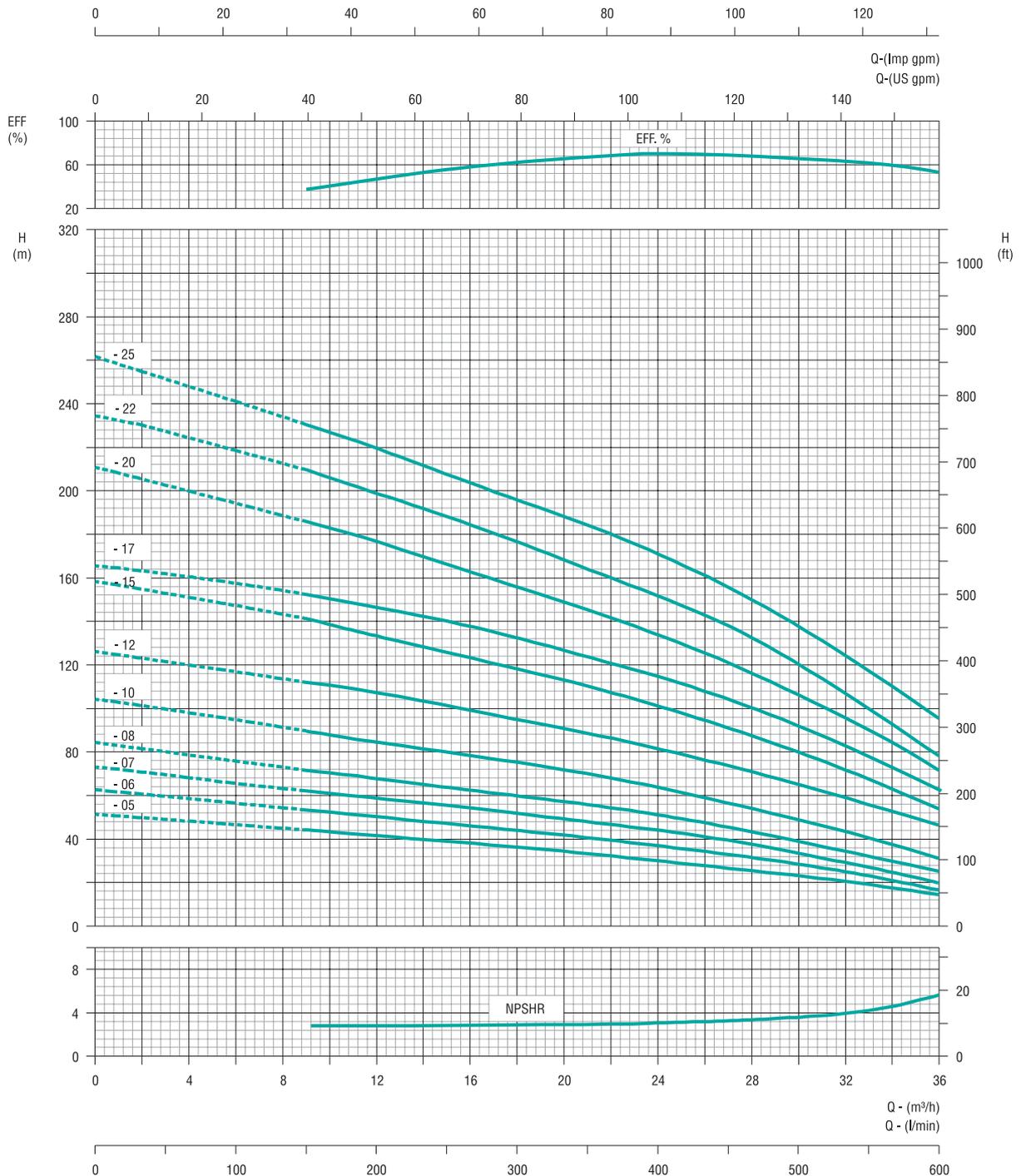
PERFORMANCE CURVES

CB SERIES > 6" > 27 m³/h

Model : **TC 150 - 27**

Outlet Size : **2½" / 3"**

2900 rpm



Curve tolerance as per ISO : 9906, Annex - A. * Performance @ 3m minimum submergence.

PERFORMANCE DATA

CB SERIES > 6" > 27 m³/h

Model : **TC 150 - 27**

Outlet Size : **2½" / 3"**

2900 rpm

Pump Model	Power		lpm m ³ /h	0	133.3	200	266.7	333.3	400.0	450	466.7	533.3	600
	kW	HP		0	8	12	16	20	24	27	28	32	36
TC150-27-05	3.7	5.0	TOTAL DYNAMIC HEAD IN METRES	51	45	42	38	34	30	27	25	20	14
TC150-27-06	4.5	6.0		62	54	50	47	42	37	33	31	25	17
TC150-27-07	5.5	7.5		72	63	59	54	49	43	39	38	29	20
TC150-27-08	5.5	7.5		86	73	68	62	58	52	45	43	34	26
TC150-27-10	7.5	10		104	92	85	78	72	63	57	54	43	31
TC150-27-12	9.3	12.5		126	114	107	99	90	82	73	71	59	47
TC150-27-15	11	15		158	144	133	123	113	101	91	88	72	54
TC150-27-17	13	17.5		165	154	147	138	128	115	103	100	82	62
TC150-27-20	15	20		211	189	177	163	149	134	120	117	95	72
TC150-27-22	18.5	25		234	212	199	184	168	152	138	132	108	79
TC150-27-25	18.5	25		262	234	220	204	189	171	155	150	124	96

Nett Weights & Dimensions

Pump Model	Power		Dimensions in mm		Nett Weight (kg)
	kW	HP	D	H	
TC150-27-05	3.7	5.0	144	806	32.60
TC150-27-06	4.5	6.0	144	896	37.30
TC150-27-07	5.5	7.5	144	986	42.00
TC150-27-08	5.5	7.5	144	1076	48.00
TC150-27-10	7.5	10	144	1256	56.00
TC150-27-12	9.3	12.5	144	1436	62.00
TC150-27-15	11	15	144	1706	74.00
TC150-27-17	13	17.5	144	1886	83.40
TC150-27-20	15	20	144	2156	100.00
TC150-27-22	18.5	25	144	2336	109.40
TC150-27-25	18.5	25	144	2606	115.00



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

All performance data is based on rated input.

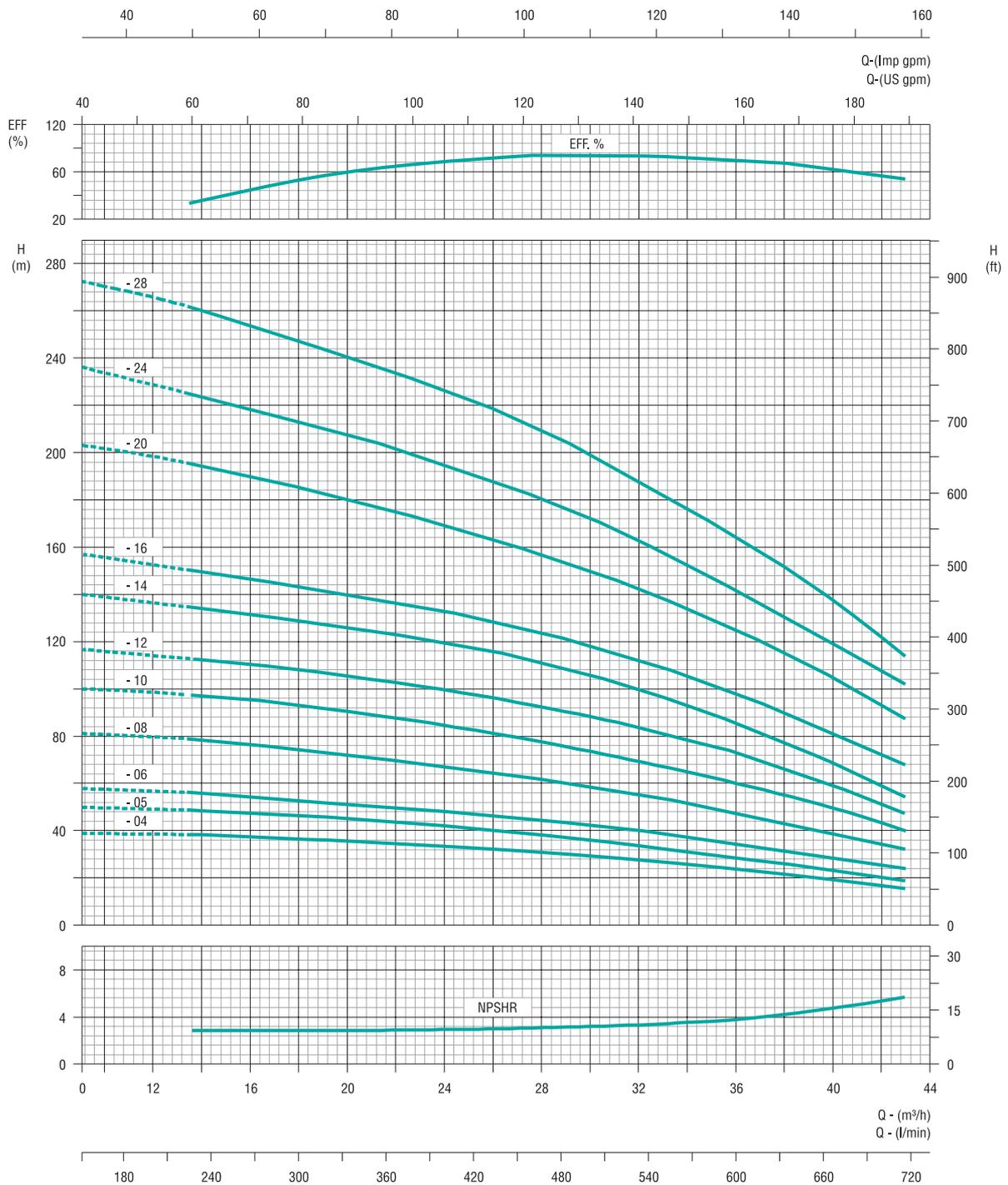
PERFORMANCE CURVES

CB SERIES > 6" > 32 m³/h

Model : **TC 150 - 32**

Outlet Size : **2½" / 3"**

2900 rpm



Curve tolerance as per ISO : 9906, Annex - A. * Performance @ 3m minimum submergence.

PERFORMANCE DATA

CB SERIES > 6" > 32 m³/h

Model : **TC 150 - 32**

Outlet Size : **2½" / 3"**

2900 rpm

Pump Model	Power		lpm m ³ /h	0	200.0	266.6	333.3	400.0	450	466.7	600	666.6	716.4
	kW	HP		0	12	16	20	24	27	28	36	40	43
TC150-32-04	3.7	5.0	TOTAL DYNAMIC HEAD IN METRES	39	38	37	36	32	31	32	23	19	15
TC150-32-05	4.5	6.0		51	49	48	45	41	38	36.5	29	22	19
TC150-32-06	5.5	7.5		58	56	54	51	48	45	44	35	28	25
TC150-32-08	7.5	10		81	78	76	72	67	63	62.5	49	39	32
TC150-32-10	9.3	12.5		100	97	95	90	85	78	76	60	50	40
TC150-32-12	11	15		118	112	110	105	100	92	94	73	59	48
TC150-32-14	13	17.5		140	134	131	127	120	111	112	85	67	52
TC150-32-16	15	20		158	153	147	140	132	123	124	98	80	67
TC150-32-20	18.5	25		202	198	190	180	170	157	156	125	105	89
TC150-32-24	22	30		236	230	218	210	195	180	180	141	119	101
TC150-32-28	26	35		272	268	253	240	227	210	208	164	138	112

Nett Weights & Dimensions

Pump Model	Power		Dimensions in mm		Nett Weight (kg)
	kW	HP	D	H	
TC150-32-04	3.7	5.0	144	716	28.40
TC150-32-05	4.5	6.0	144	806	32.60
TC150-32-06	5.5	7.5	144	896	37.30
TC150-32-08	7.5	10	144	1076	48.00
TC150-32-10	9.3	12.5	144	1256	56.00
TC150-32-12	11	15	144	1436	62.00
TC150-32-14	13	17.5	144	1616	68.00
TC150-32-16	15	20	144	1796	78.00
TC150-32-20	18.5	25	144	2156	100.00
TC150-32-24	22	30	144	2516	122.00
TC150-32-28	26	35	144	2876	144.00



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

All performance data is based on rated input.

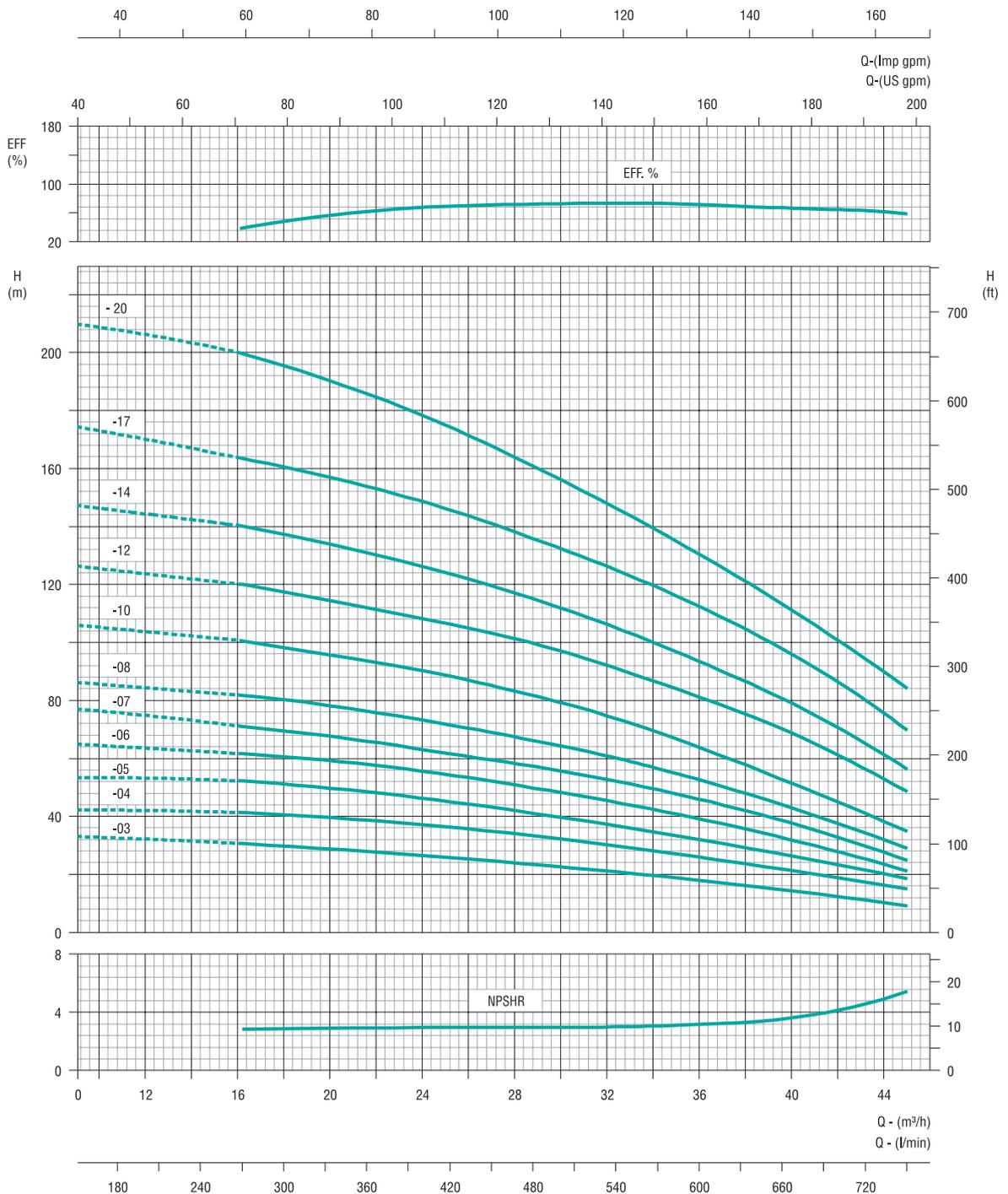
PERFORMANCE CURVES

CB SERIES > 6" > 38 m³/h

Model : **TC 150 - 38**

Outlet Size : **3"**

2900 rpm



Curve tolerance as per ISO : 9906, Annex - A. * Performance @ 3m minimum submergence.

PERFORMANCE DATA

CB SERIES > 6" > 38 m³/h

Model : **TC 150 - 38**

Outlet Size : **3"**

2900 rpm

Pump Model	Power		lpm m ³ /h	0	266.6	333.3	400.0	466.7	533.3	600.0	666.6	733.3
	kW	HP		0	16	20	24	28	32	36	40	44
TC150-38-03	3.7	5.0	TOTAL DYNAMIC HEAD IN METRES	32.5	31	29	26.5	24	21.5	18	14.5	10
TC150-38-04	4.5	6.0		42.5	41.5	39.8	37	34	30	26	21.5	16.5
TC150-38-05	5.5	7.5		53.5	52	50	46	42	37.5	32	26.5	18
TC150-38-06	7.5	10		65	61.5	59	55.5	51	45	39.5	32	22
TC150-38-07	7.5	10		77	71.5	68	63	58	53	45.5	38	25
TC150-38-08	9.3	12.5		86	82	78	73.5	67.5	61	52.5	43	29
TC150-38-10	11	15		106	100.5	95.5	90	83.5	75	63.5	51.5	35
TC150-38-12	13	17.5		126	120	114.5	103.5	101.5	92.5	81.5	64	49
TC150-38-14	15	20		147	140	134	126	117	106	94	79	56
TC150-38-17	18.5	25		174	164	156.5	148	138.5	126	113	95.5	70
TC150-38-20	22	30		210	200	190	178	164	148	130	111	85

Nett Weights & Dimensions

Pump Model	Power		Dimensions in mm		Nett Weight (kg)
	kW	HP	D	H	
TC150-38-03	3.7	5.0	144	666	31.20
TC150-38-04	4.5	6.0	144	766	37.00
TC150-38-05	5.5	7.5	144	866	42.80
TC150-38-06	7.5	10	144	966	48.60
TC150-38-07	7.5	10	144	1066	53.00
TC150-38-08	9.3	12.5	144	1166	58.80
TC150-38-10	11	15	144	1366	70.40
TC150-38-12	13	17.5	144	1566	82.00
TC150-38-14	15	20	144	1766	93.60
TC150-38-17	18.5	25	144	2066	111.00
TC150-38-20	22	30	144	2366	128.00



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

All performance data is based on rated input.

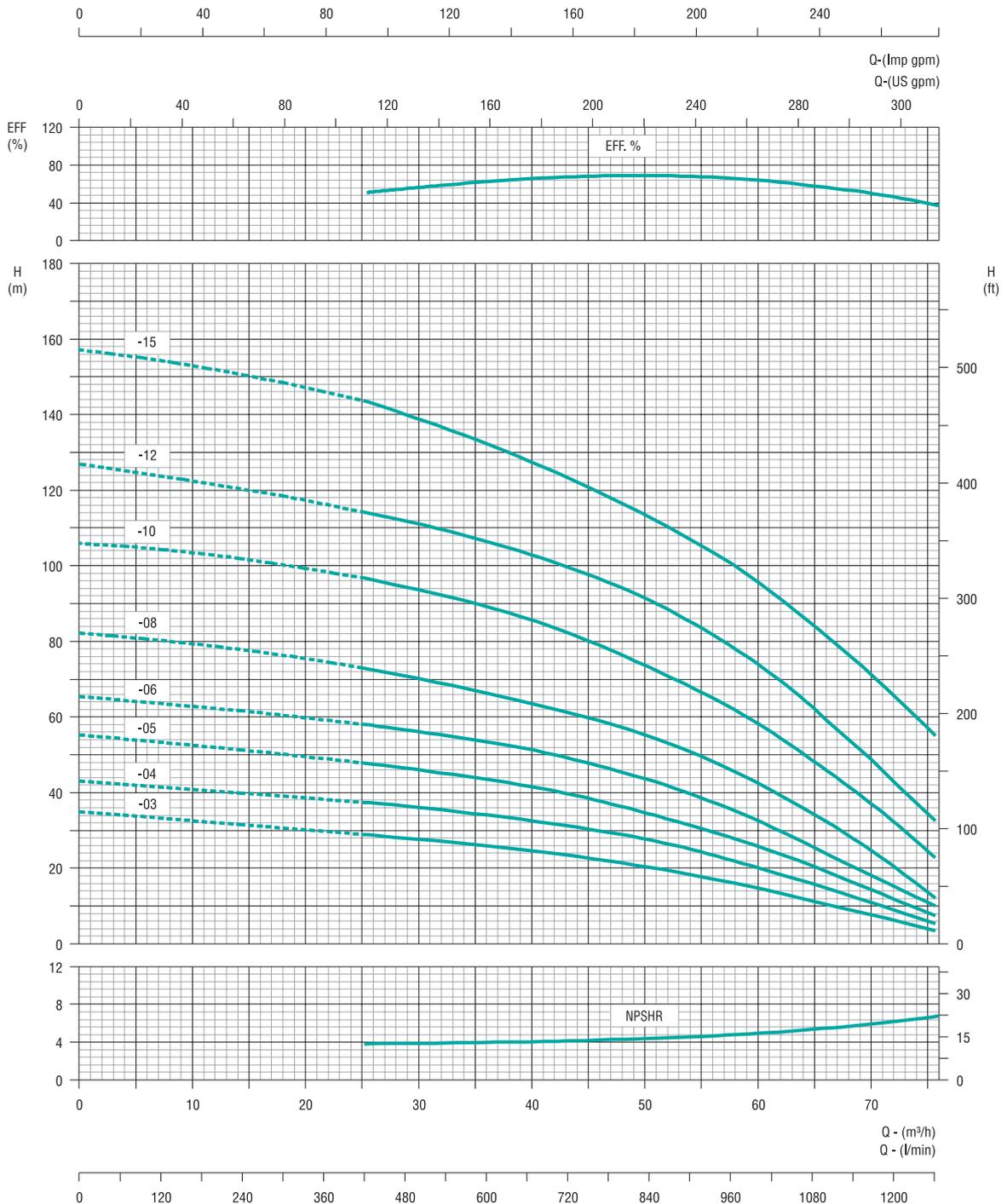
PERFORMANCE CURVES

CB SERIES > 6" > 46 m³/h

Model : **TC 150 - 46**

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

2900 rpm



Curve tolerance as per ISO : 9906, Annex - A. * Performance @ 3m minimum submergence.

PERFORMANCE DATA

CB SERIES > 6" > 46 m³/h

Model : **TC 150 - 46**

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

2900 rpm

Pump Model	Power		lpm m ³ /h	0	333.3	500.0	666.6	833.4	1000.0	1116.6
	kW	HP		0	25	30	40	50	60	70
TC150-46-03	4.5	6.0	TOTAL DYNAMIC HEAD IN METRES	35	29	27.5	24.8	20.5	14.8	7.5
TC150-46-04	5.5	7.5		43	37	36	32.5	28	20	11
TC150-46-05	7.5	10		55	47	46	41.5	35	25.5	14
TC150-46-06	9.3	12.5		65	58	56	51.5	43.5	32.5	18
TC150-46-08	11	15		82	73	70	63.5	55	42	24.5
TC150-46-10	15	20		106	97	93.5	86	73.5	58.5	37
TC150-46-12	18.5	25		126	114	111.5	103	92	74	48.5
TC150-46-15	22	30		157	144	138.5	127	113.5	95	71

Nett Weights & Dimensions

Pump Model	Power		Dimensions in mm		Nett Weight (kg)
	kW	HP	D	H	
TC150-46-03	4.5	6.0	144	698	34.50
TC150-46-04	5.5	7.5	144	808	38.50
TC150-46-05	7.5	10	144	918	42.50
TC150-46-06	9.3	12.5	144	1028	47.00
TC150-46-08	11	15	144	1248	56.00
TC150-46-10	15	20	144	1468	65.00
TC150-46-12	18.5	25	144	1688	74.00
TC150-46-15	22	30	144	2018	87.50



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

All performance data is based on rated input.

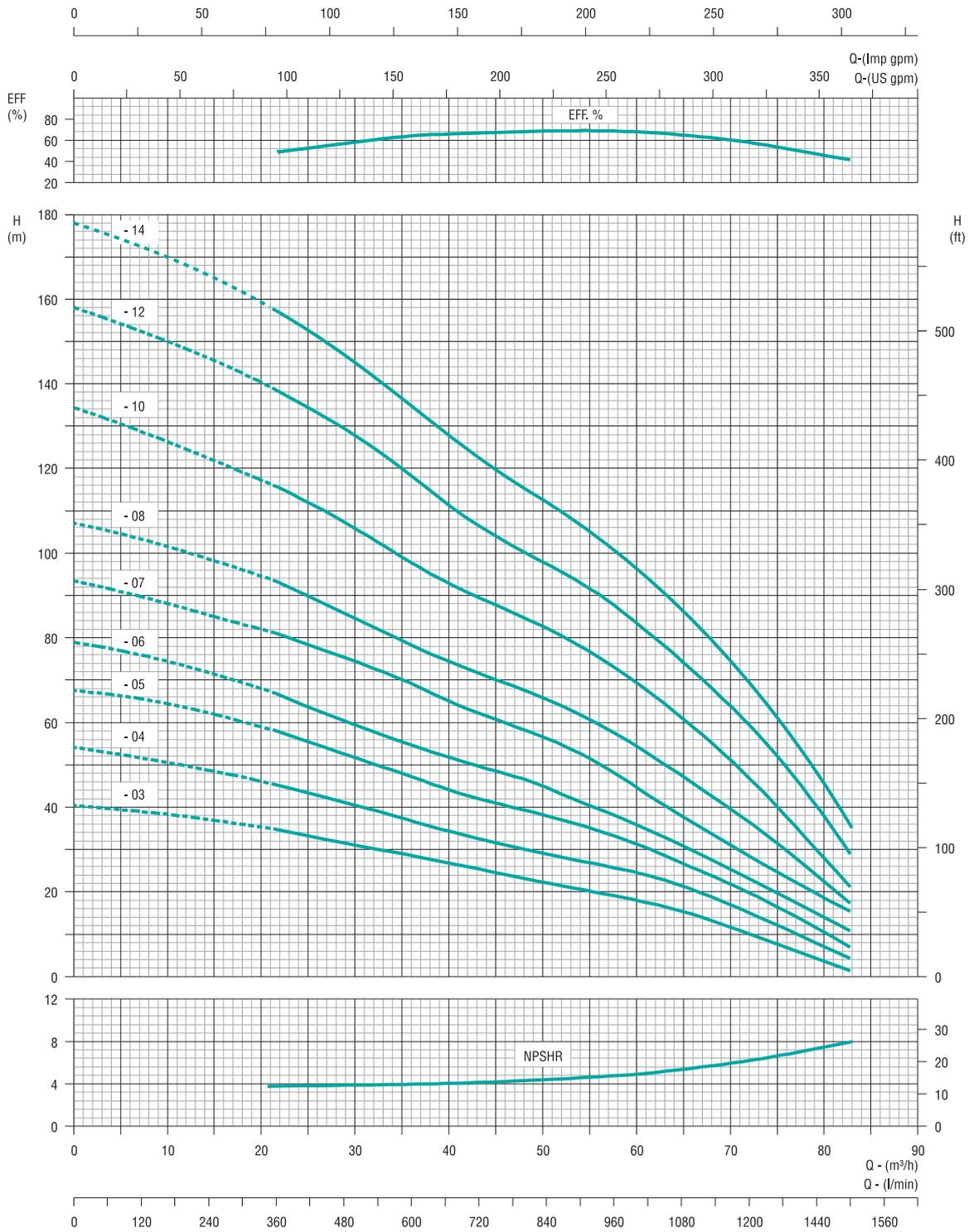
PERFORMANCE CURVES

CB SERIES > 6" > 60 m³/h

Model : **TC 150 - 60**

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

2900 rpm



Curve tolerance as per ISO : 9906, Annex - A. * Performance @ 3m minimum submergence.

PERFORMANCE DATA

CB SERIES > 6" > 60 m³/h

Model : **TC 150 - 60**

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

2900 rpm

Pump Model	Power		lpm m ³ /h	0	333.3	500.0	666.7	833.4	1000.0	1166.7	1378.0
	kW	HP		0	20	30	40	50	60	70	83
TC150-60-03	5.5	7.5	TOTAL DYNAMIC HEAD IN METRES	40	35.5	31.5	27	22.5	18	12	3.5
TC150-60-04	7.5	10		54	46.5	40.5	34.5	29	24.8	16	5
TC150-60-05	9.3	12.5		67	59	52	44	38	31.5	22	7.5
TC150-60-06	11	15		79	68	59	52	45	36	25	11
TC150-60-07	13	17.5		93	82	74.5	65	57	45	31	16
TC150-60-08	15	20		107	94.5	84.8	74.5	66	54.8	39.8	18
TC150-60-10	18.5	25		134	117	106	92.5	82.5	69.8	51.5	21
TC150-60-12	22	30		158	140	127.5	111.5	97.5	83.5	64	29
TC150-60-14	26	35		178	159	146	127	112	96	74	35

Nett Weights & Dimensions

Pump Model	Power		Dimensions in mm		Nett Weight (kg)
	kW	HP	D	H	
TC150-60-03	5.5	7.5	144	698	35.00
TC150-60-04	7.5	10	144	808	40.00
TC150-60-05	9.3	12.5	144	918	45.50
TC150-60-06	11	15	144	1028	51.00
TC150-60-07	13	17.5	144	1138	56.50
TC150-60-08	15	20	144	1248	63.20
TC150-60-10	18.5	25	144	1468	74.10
TC150-60-12	22	30	144	1688	87.00
TC150-60-14	26	35	144	1900	99.00

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 SQUARE MILLIMETRES																			
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										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

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

FRICTION LOSS CHART

Friction loss in metres for 10 metres long new steel galvanized pipe (C=140)

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

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

Nominal Pipe Outer dia in mm / inches	40/ 1½"	50/ 2"	63/ 2½"	75/ 3"	90/ 3½"	110/ 4¼"	125/ 5"	140/ 5½"	160/ 6¼"
Volume rate of flow lps									
0.50	0.074								
1.00	0.268								
1.25	0.405	0.131							
1.60	0.640	0.211							
2.00	0.967	0.310							
2.50	1.462	0.483	0.150						
3.20	2.309	0.762	0.250	0.106					
4.0	3.491	1.153	0.377	0.160					
5.0		1.742	0.571	0.242					
8.0		4.161	1.363	0.577	0.237				
10.0			2.060	0.873	0.358	0.133			
12.5			3.114	1.319	0.542	0.201			
16			4.919	2.084	0.856	0.317	0.172		
20				3.151	1.293	0.479	0.260		
25					1.955	0.725	0.362	0.225	0.117
32					3.089	1.145	0.020	0.355	0.184
40						1.731	0.937	0.537	0.279
50						2.617	1.416	0.812	0.421
60						3.008	1.985	1.138	0.590
80							3.382	1.939	1.006
100								2.931	1.521
125									2.299

FRICTION LOSS CHART

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

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

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

Grade →	Class (0.25Mpa)	Class (0.4Mpa)	Class (0.6Mpa)
Nominal pipe dia in mm ↓	Rate of flow in lps	Rate of flow in lps	Rate of flow in lps
40	-	-	Up to 2.04
50	-	-	2.04 - 3.70
63	-	3.80 - 7.24	3.70 - 6.77
75	-	7.24 - 11.47	6.77 - 10.76
90	1.50 - 19.58	11.47 - 18.50	10.76 - 17.41
110	19.58 - 33.25	18.59 - 31.71	17.41 - 29.75
125	33.25 - 46.63	31.71 - 44.33	29.75 - 41.44
140	46.63 - 62.92	44.33 - 59.79	41.44 - 55.97
160	62.92 - 89.28	59.79 - 84.95	55.97 - 79.76

CONVERSION CHART

FLOW RATE

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

LIQUID

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

LIQUID HEAD AND PRESSURE

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

LENGTH

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

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

MASS

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

TEMPERATURE

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



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

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

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

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

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

Naargo Industries Private Limited,

No. 2, Gem Garden, Athipalayam Junction, Ganapathy, Coimbatore - 641 006, INDIA.

Tel : +91 978 6522622, Fax : +91 422 2531956

email : tormac@tormacpumps.com web : www.tormacpumps.com

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