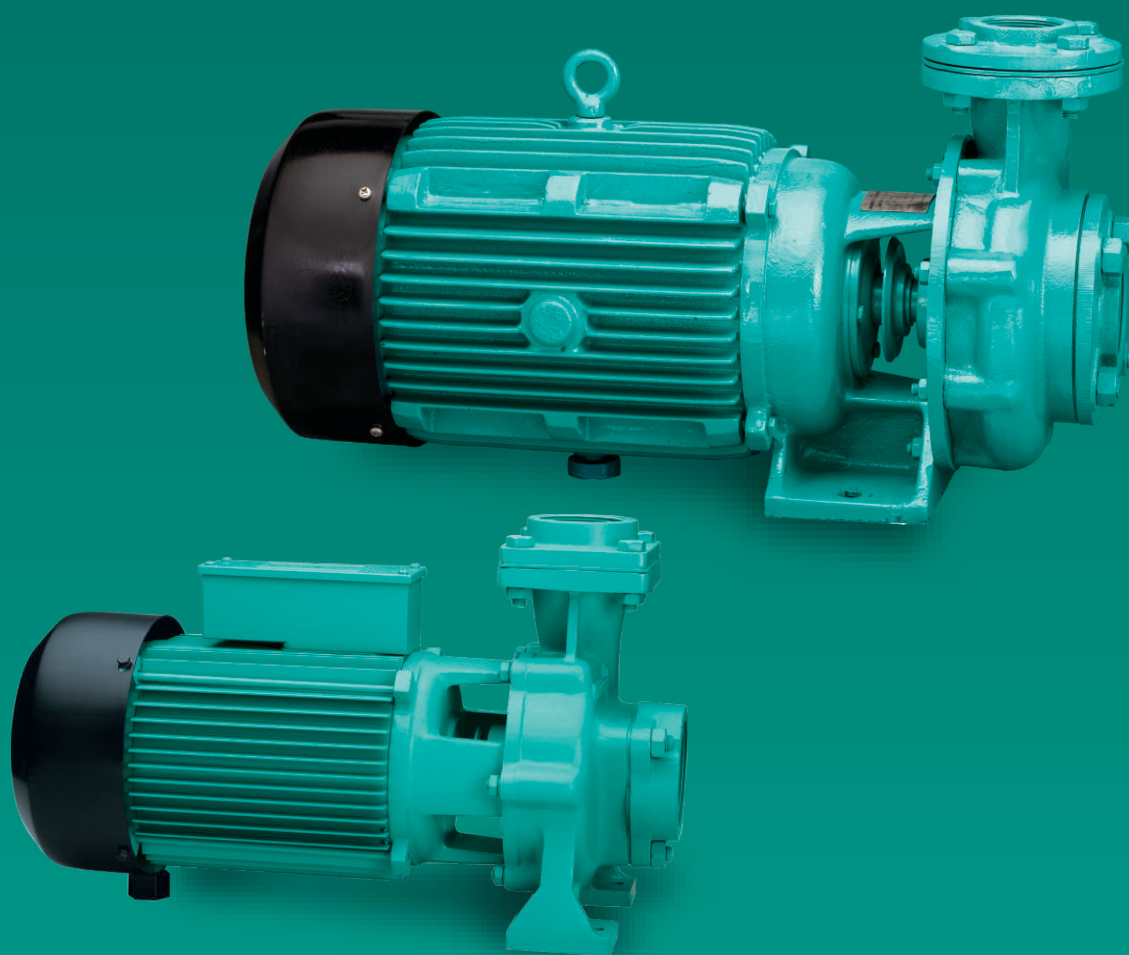


THE HARD WORKING PUMP

The result of superior technology and expertise that has stood the test of time.



CENTRIFUGAL CIRCULATORY PUMPS **TM** - SERIES **50 Hz**

CENTRIFUGAL CIRCULATORY PUMPS > TM - SERIES

Tormac single stage centrifugal pumps are provided with axial suction port and radial discharge port. The pump has back pull-out design. State-of-the-art machinery, most advanced pumping technology and expertise gained over the years are employed in the manufacture of these pumps. Quality raw material, seals, ball bearings and dynamically balanced rotating components are used to ensure long life.

Technical data

Power Range	0.37 kW to 2.2 kW in Single Phase 0.37 kW to 15 kW in Three Phase
Versions	(PSC) 230V & Three Phase (DOL), 380-415V, Two Poles, 50Hz, All Single phase motors are incorporated with thermal overload protector
Duty type	S1 (Continuous)
Degree of protection	IP 44 / IP 54
Class of Insulation	'B' / 'F'
Nominal Delivery Size	1" to 4"
Thread type connection	Upto 1 1/2"
Flange type connection	2" & above

Material Specification

Pump Casing	Cast Iron
Impeller	Cast Iron (Optional - Bronze / S.S. 304/316 / Plastic)
Motor Frame	Aluminium / Cast iron
Shaft	S.S. 410 / S.S 304 + Carbon Steel
Sealing	Mechanical Seal (Carbon & Ceramic)

Applications

Domestic water supply

Irrigation

Gardening

Washing Systems

Pressure Boosting

Civil and Industrial applications

Performance & Specifications

Maximum Nominal Flow Rate Upto 600 lpm

Maximum Operating Head upto 36m

Suction Lift Upto 7m

Maximum Liquid Temperature 50°C

Maximum Ambient Temperature 40°C

Maximum Operating Pressure 0.35 Mpa (3.5 bar)

Note: The company reserves the right to modify the technical specification and the illustrations without notice.

GENERAL DATA

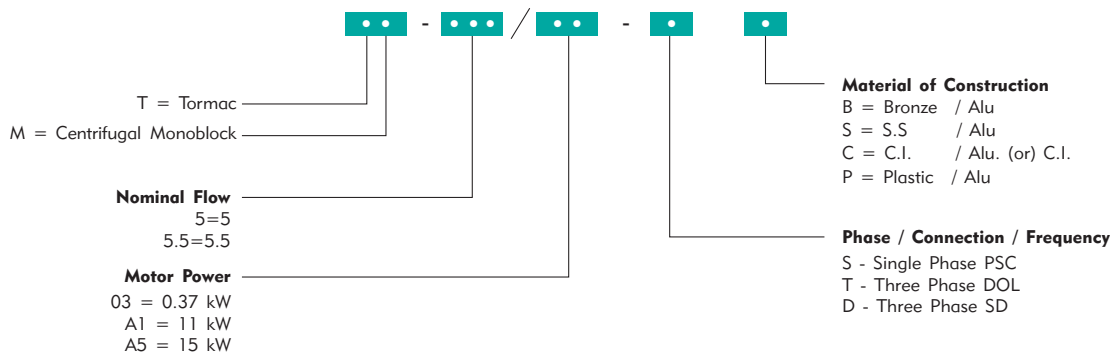
CENTRIFUGAL CIRCULATORY PUMPS > **TM** - SERIES

Liquids Pumped

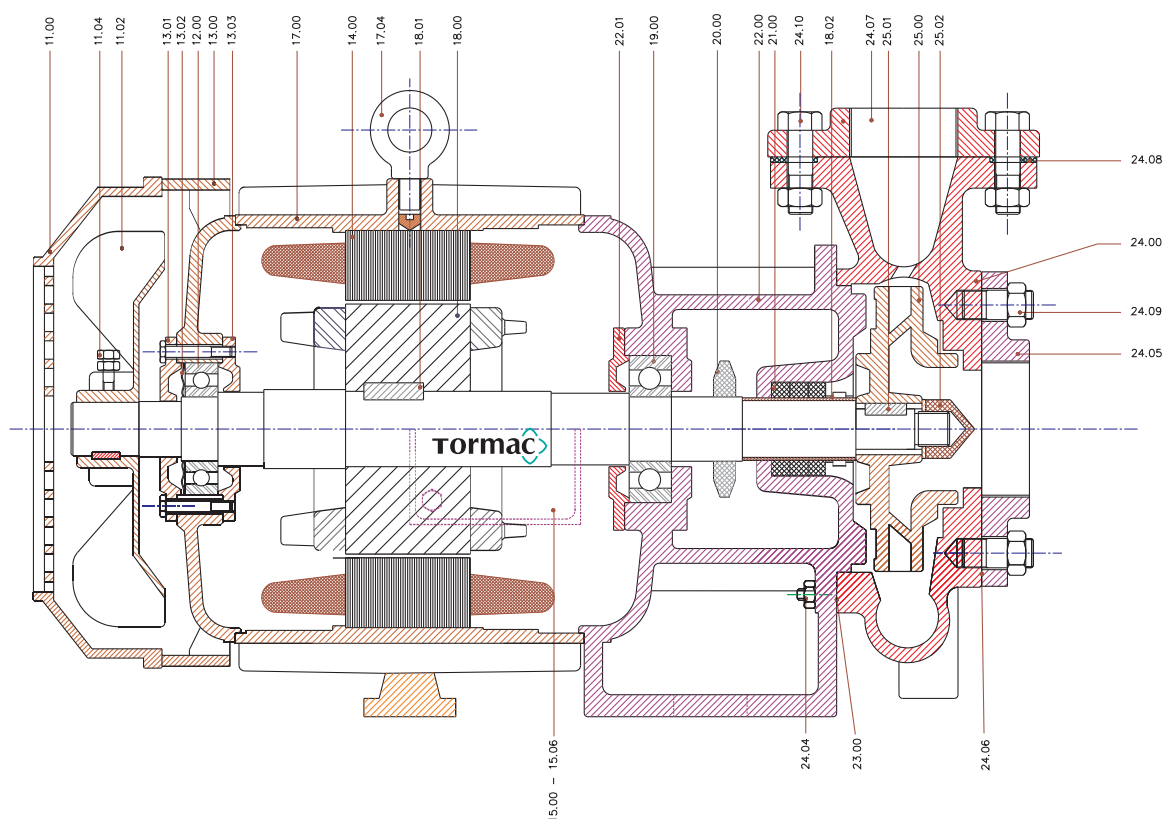
Non-aggressive, Non explosive, Pure, Cold, Fresh water without abrasive particles having the following characteristics.

a) pH	6.5 to 8.5
b) Turbidity	50 ppm silica scale (max.)
c) Viscosity	$1.75 \times 10^6 \text{ m}^2/\text{sec}$ (max.)
d) Hardness (Drinking Water)	300 ppm (max.)
e) Specific gravity	1.004 (max.)
f) Allowable solids	3000 ppm (max.)
g) Chlorine ion density	500 ppm (max.)
h) Temperature	91.4° F (max)

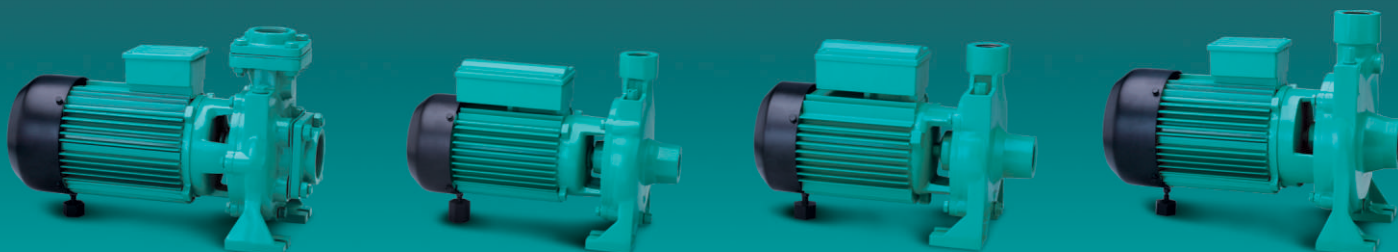
Model Designation > CENTRIFUGAL CIRCULATORY PUMPS



GENERAL ASSEMBLY DRAWING OF SINGLE STAGE CENTRIFUGAL MONOBLOCK PUMPSET



11.00 Cooling fan cover	15.01 Terminal box	18.02 Rotor bush	24.06 Suction flange washer
11.02 Cooling fan	15.02 Terminal end with lead wire	19.00 Ball bearing (front)	24.07 Delivery flange
11.04 Cooling fan bolt and nut	15.03 Terminal board	20.00 Deflector (water cutting ring)	24.08 Delivery flange washer
12.00 Ball bearing (Rear)	15.04 Gasket	21.00 Mechanical seal	24.09 Suction flange stud and nut
13.00 Driving cap / back cover	15.05 Wiring gland	22.00 Bracket / front cover	24.10 Delivery flange bolt & nut
13.01 Back cover outer cap	15.06 Screw / Bolt	22.01 Front cover inner cap	25.00 Closed impeller
13.02 Wave washer	17.00 Motor frame	23.00 Gasket (pump casing)	25.01 Impeller key
13.03 Back cover inner cap	17.04 Eye bolt	24.00 Pump casing	25.02 Impeller nut
14.00 Winded stator	18.00 Rotor - Shaft	24.04 Stud and nut (seating)	
15.00 Terminal box cover	18.01 Rotor key	24.05 Suction flange	



TM - SERIES > Performance Data > Cast Iron Impeller

PUMP MODEL		Motor Power		Nominal Pump Size in inches (Inlet x outlet)	Total Head in Metres																	
Single Phase 230V-PSC type	Three Phase 380-415V				kW	HP	9	10	12	14	15	16	18	20	22	23	24	26	27	28	30	32
		Discharge in lpm																				
TM-5.4/03-SC	TM-5.4/03-TC	0.37	0.5	1 x 1	115.8	109.8	95	74	60	46	33.6 (17m)	0 (18.5m)										
TM-5/03-SC	TM-5/03-TC	0.37	0.5	1 x 1			108	97	91	83.4	66	48	33.6 (21m)	0 (23.5m)								
TM-7/05-SC	TM-7/05-TC	0.55	0.75	1 x 1				133	128.4	124.8	114	99.6	79.8	67.8	55.8	31.2	18.9	0 (28.5m)				
TM-7/07-SC	TM-7/07-TC	0.75	1.0	1 x 1						139.8	132.6	124.2	114	108.6	102	82.2	69.6	58.2	33	0 (33m)		
TM-8/11-SC	TM-8/11-TC	1.1	1.5	1 x 1								135	130.8	129	127.2	121.2	117	111.6	96.6	75	33.6	0

PUMP MODEL		Motor Power		Nominal Pump Size in inches (Inlet x outlet)	Total Head in Metres													
Single Phase 230V-PSC type	Three Phase 380-415V				10	12	14	16	18	20	22	24	26	28	30	32	34	36
		Discharge in lpm																
TM-5/05-SCL	TM-5/05-TCL	0.55	0.7	1 x 1		108	98	85	70	48	20							
TM-7/07-SCL	TM-7/07-TCL	0.75	1.0	1 x 1			133	124	115	100	80	56	32					

PUMP MODEL		Motor Power		Nominal Pump Size in inches (Inlet x outlet)	Total Head in Metres													
Single Phase 230V-PSC type	Three Phase 380-415V				10	12	14	15	16	18	20	22	23	24	26	27	28	30
		kW	HP		Discharge in lpm													
TM-9/07-SC	TM-9/07-TC	0.75	1.0	1¼ x 1		208	186	174.6	163.2	141	114	83.4	67.2	51	36 (25m)	0 (27.5m)		

PUMP MODEL		Motor Power		Nominal Pump Size in inches (Inlet x Outlet)	Total Head in Metres																	
Single Phase 230V-PSC type	Three Phase 380-415V				12	14	15	16	18	20	22	23	24	26	27	28	30	32	34	36	38	40
		kW	HP		Discharge in lpm																	
TM-13/07-SC	TM-13/07-TC	0.75	1.0	1½ x 1¼	258	236	217.2	195	149.4	90	52.2	0 (22.5m)										
TM-13/11-SC	TM-13/11-TC	1.1	1.5	1½ x 1¼					236.4	221.4	204	195.6	186	162	118.2	69	45.6 (31m)	0 (33m)				

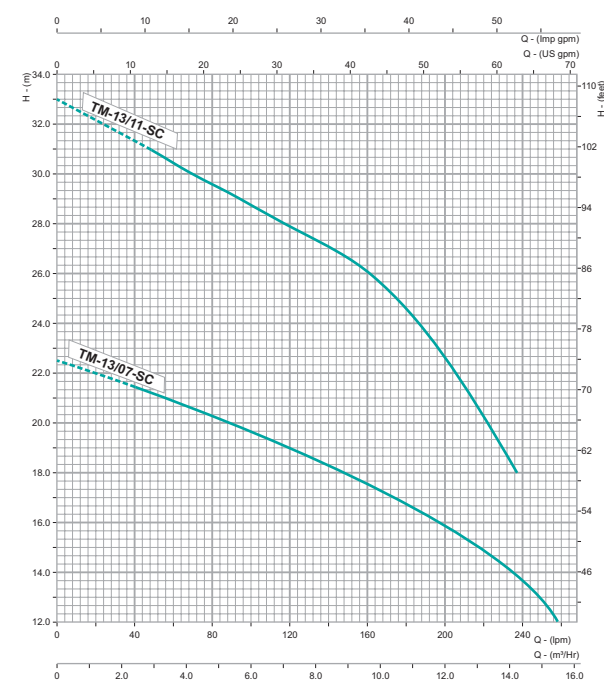
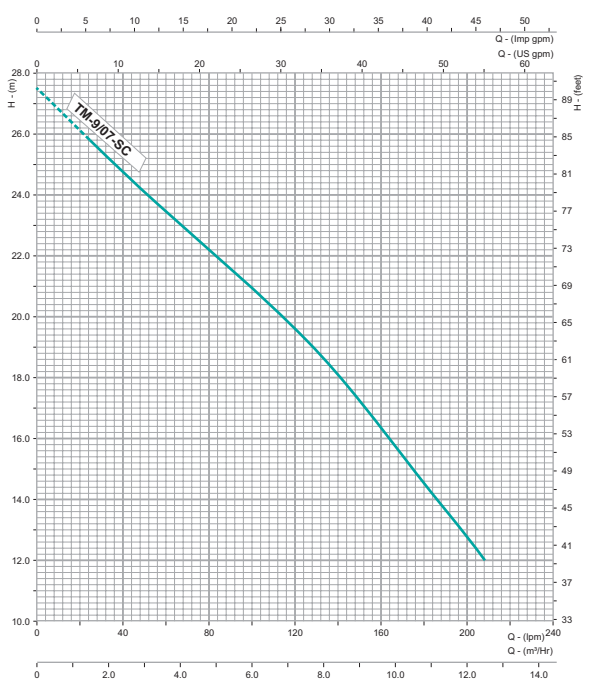
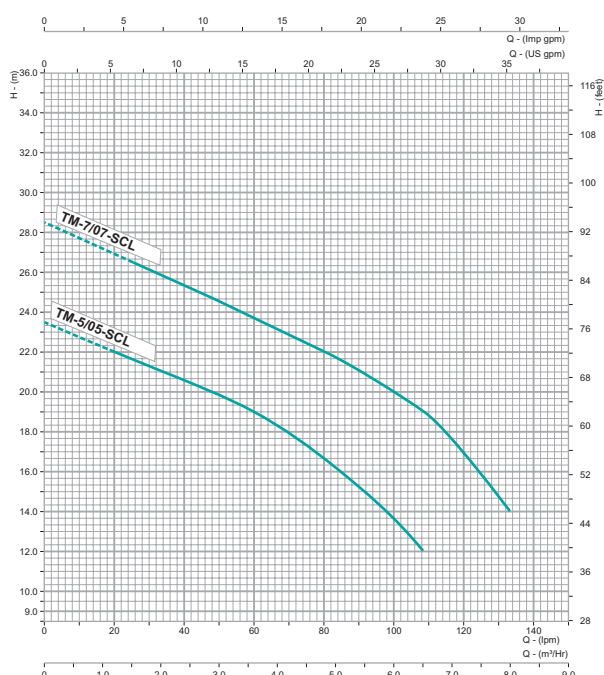
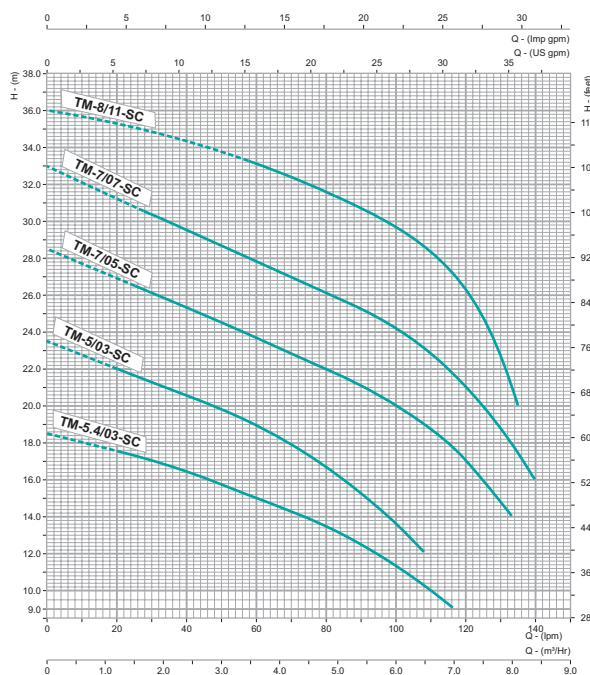
Note :

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* All data are at rated input.

* Bronze impeller are available on request.

TM - SERIES Performance Curves



The above given performance curves are common for both single and three phase models. The alphabetical letter of the model identification 'S' which denotes single phase will be replaced by 'T' in case of three phase pumps. Curve tolerance according to ISO : 9906, Annexure - A.

TM - SERIES > Performance Data

PUMP MODEL		Motor Power		Nominal Pump Size in inches (Inlet x outlet)	Total Head in Metres																	
Single Phase 230V-PSC type	Three Phase 380-415V				10	12	14	15	16	18	20	22	23	24	26	27	28	30	32	34	36	38
		kW	HP		Discharge in lpm																	
TM-20/11-SC	TM-20/11-TC	1.1	1.5	2 x 1 ½	441.6	405	358	298	223	123.6	0											
TM-23/15-SC	TM-23/15-TC	1.5	2	2 x 1 ½				425	387	330	255	214	157	0								

PUMP MODEL		Motor Power		Nominal Pump Size in inches (Inlet x outlet)	Total Head in Metres																	
Single Phase 230V-PSC type	Three Phase 380-415V				kW	HP	16	18	20	22	23	24	26	27	28	30	32	34	36	38	40	42
		Discharge in lpm																				
TM-13/15-SC	TM-13/15-TC	1.5	2		2 x 1 ½	258	250	238	225	216	206	186	172	150	59	0 (32.5m)						

PUMP MODEL		Motor Power		Nominal Pump Size in inches (Inlet x outlet)	Total Head in Metres																
Single Phase 230V-PSC type	Three Phase 380-415V				kW	HP	14	15	16	18	20	22	23	24	26	27	28	30	32	34	36
		Discharge in lpm																			
TM-21.6/15-SC	TM-21.6/15-TC	1.5	2	2 x 2				390	334.8	255	210	157.2	84	0							
TM-20/22-SC	TM-20/22-TC	2.2	3	2 x 2						366	350	336	300	288	240	168	0				

PUMP MODEL		Motor Power		Nominal Pump Size in inches (Inlet x outlet)	Total Head in Metres																	
Single Phase 230V-PSC type	Three Phase 380-415V				kW	HP	12	14	15	16	18	20	22	23	24	26	27	28	30	32	34	36
		Discharge in lpm																				
TM-30/15-SC	TM-30/15-TC	1.5	2	2½ x 2	600	528	500	466	366	264	0											
TM-30/22-SC	TM-30/22-TC	2.2	3	2½ x 2	600	560	530	493	400	264	0											

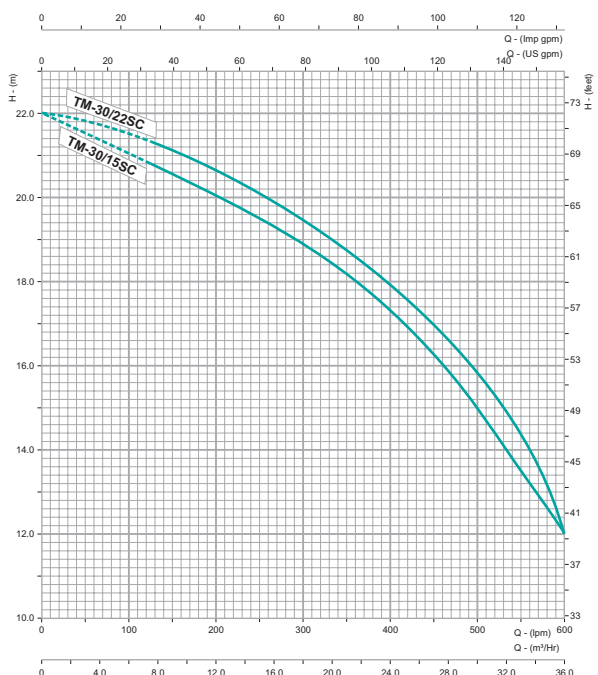
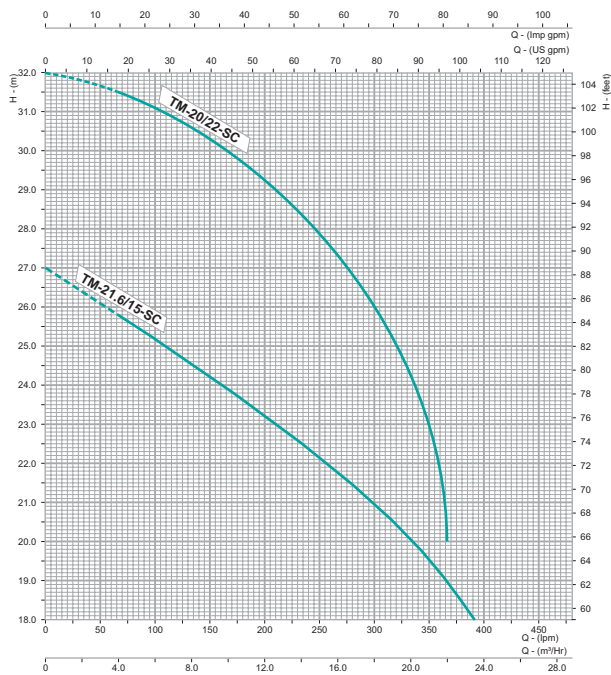
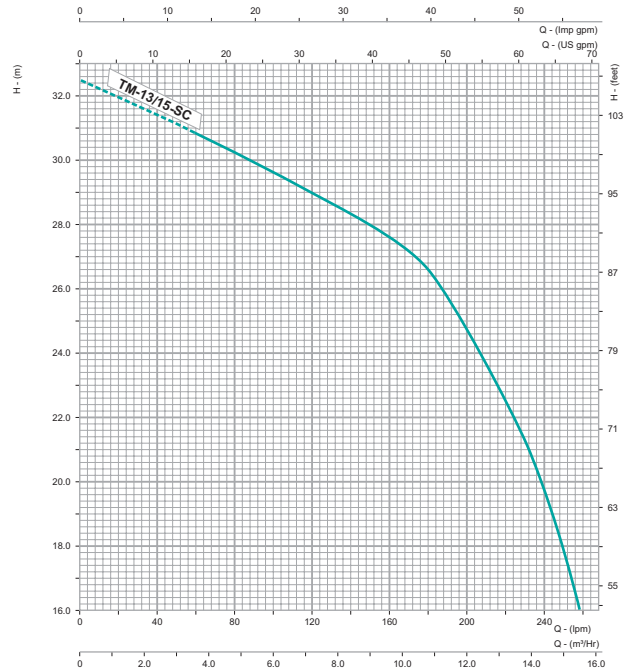
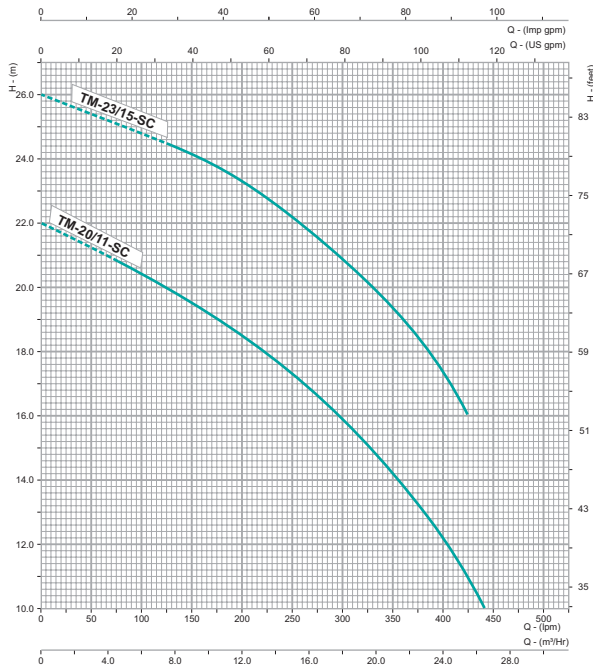
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TM - SERIES Performance Curves



The above given performance curves are common for both single and three phase models. The alphabet letter of the model identification 'S' denotes single phase and will be replaced by 'T' in case of three phase pumps. Curve tolerance according to ISO : 9906, Annexure - A.

TM - SERIES > Performance Data > S.S. Impeller

PUMP MODEL		Motor Power		Nominal Pump Size in inches (Inlet x outlet)	No. of Stages	Total Head in Metres											
Single Phase 230V-PSC type	Three Phase 380-415V					9	10	12	14	15	16	18	20	22	23	24	26
		kW	HP														
TM-5.4/03-SS	TM-5.4/03-TS	0.37	0.5	1 x 1	1	116.66	108.33	96.66	75	53.33	46.66	33.33 (17m)	0 (18.5m)				
TM-5/03-SS	TM-5/03-TS	0.37	0.5	1 x 1	1	-	-	108.33	100.00	91.66	83.33	70	50	33.33	0 (23.5m)		
TM-7/05-SS	TM-7/05-TS	0.55	0.75	1 x 1	1	-	-	-	133.33	125	120	116.66	108.33	75	58.33	41.66	20
TM-7/07-SS	TM-7/07-TS	0.75	1.0	1 x 1	1	-	-	-	-	-	140	130	125	120	116.66	106.66	83.33

PUMP MODEL		Motor Power		Nominal Pump Size in inches (Inlet x outlet)	Total Head in Metres													
Single Phase 230V-PSC type	Three Phase 380-415V				kW	HP	12	14	15	16	18	20	22	23	24	26	27	28
		Discharge in lpm																
TM-5/05-SSL	TM-5/05-TSL	0.55	0.75	1 x 1	108	98	92	85	70	47	20							
TM-7/07-SSL	TM-7/07-TSL	0.75	1.0	1 x 1		133	130	125	115	100	80	69	58	32	24 (26.5m)			

PUMP MODEL		Motor Power		Nominal Pump Size in inches (Inlet x outlet)	Total Head in Metres														
Single Phase 230V-PSC type	Three Phase 380-415V				kW	HP	14	16	18	20	22	23	24	26	27	28	30	32	35
		Discharge in lpm																	
		TM-5.5/07-SS	TM-5.5/07-TS				0.75	1.0	1 x 1	126.6	123	118.2	108	96	86.4	78	63	54.6	48
TM-6/07-SS	TM-6/07-TS	0.75	1.0	1 x 1		108.3	105	101.6	96.6	86.6	80	63.3	56.6	46.6	35	0 (34.5m)			
TM-6.2/11-SS	TM-6.2/11-TS	1.1	1.5	1 x 1				122	120	118.3	117.0	116.6	115	110	100	83.3	53.3	41.6	

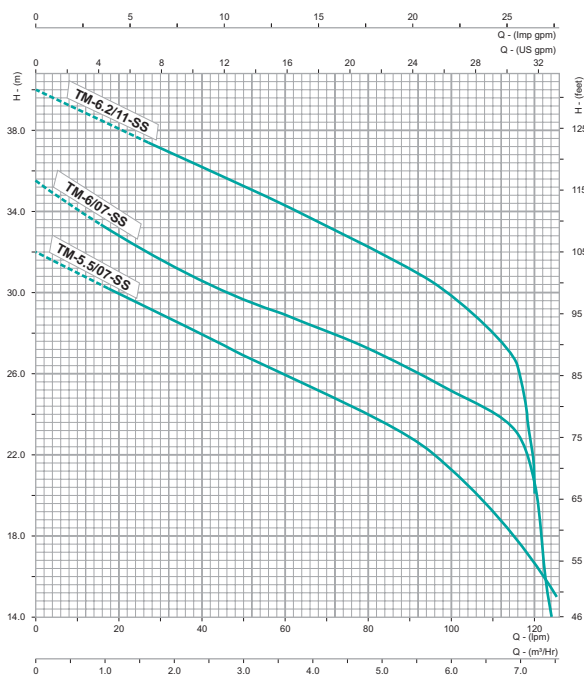
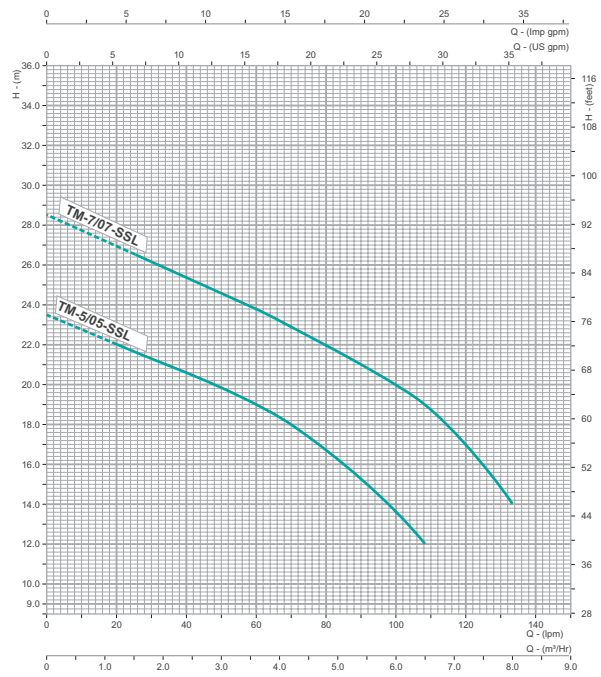
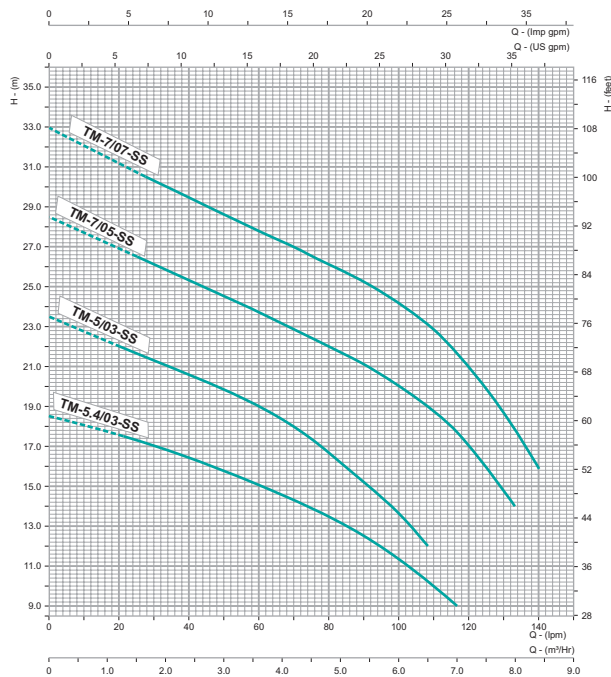
Note :

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* All data are at rated input.

* The last digit of the pump model 'S' denotes MOC of stainless Steel impeller.

TM - SERIES > Performance Curves



The above given performance curves are common for both single and three phase models. The alphabet letter of the model identification 'S' denotes single phase and will be replaced by 'T' in case of three phase pumps. Curve tolerance according to ISO : 9906, Annexure - A.

TM - SERIES > Performance Data

2 - Pole, 3 - Phase, 380-415V, 50Hz (2900rpm) Single Stage

PUMP MODEL	Motor Power		Nominal Pump Size in inches (Inlet x outlet)		Total Head in Metres													
	kW	HP			20	25	30	35	40	45	50	55	60	65	70	75	80	85
TM-18/22-TC	2.2	3.0	2 x 1 ½	Discharge in m³/h	23.2	22.4	20											
TM-25/37-TC	3.7	5.5	2 x 1 ½		26.6	25.6	24.4	22.4	17.2									
TM-26/55-TC	5.5	7.5	2 x 1 ½				30.2	29.8	28.7	28	27	25.2	16.4					
TM-25/75-TC	7.5	10	2 x 1 ½		28.5	28.4	28.2	28	27.6	27.2	26.8	26	22					
TM-25/93-TC	9.3	12.5	2 x 1 ½				29	28.7	28.3	27.9	27.2	26.7	25.7	24				

2 - Pole, 3 - Phase, 380-415V, 50Hz (2900rpm) Single Stage

PUMP MODEL	Motor Power		Nominal Pump Size in inches (Inlet x outlet)		Total Head in Metres													
	kW	HP			15	20	25	30	35	40	45	50	55	60	65	70	75	80
TM-27/22-TC	2.2	3.0	2½ x 2	Discharge in m³/h	36.5	27.5												
TM-34/37-TC	3.7	5.0	2½ x 2			44	40.5	33 (27.5m)										
TM-43/55-TC	5.5	7.5	2½ x 2			49.5	49	48	44	35 (38m)								
TM-38/75-TC	7.5	10	2½ x 2				55.6	55.5	54.5	46.5	35 (48m)							
TM-45/93-TC	9.3	12.5	2½ x 2			46.7	46.6	46.5	46.4	46.2	45.7	45.5	44					
TM-43/A1-TC	11	15	2½ x 2				49.7	49.5	49	48.7	48.4	47.9	46.7	41.2				
TM-45/A5-DC	15	20	2½ x 2					53	52.4	51.7	51	50.4	49.5	48.8	47.7	46.5	43.5	35 (78m)

2 - Pole, 3 - Phase, 380-415V, 50Hz (2900rpm) Single Stage

PUMP MODEL	Motor Power		Nominal Pump Size in inches (Inlet x outlet)		Total Head in Metres													
	kW	HP			15	20	25	30	35	40	45	50	55	60	65	70	75	80
TM-42/75-TC	7.5	10.0	2½ x 2	Discharge in m³/h	42.5	42	41.7	41.5	40.5	40	37.5							
TM-48/A1-TC	11	15	2½ x 2					50.2	50	49.7	49.5	49.2	49	48.2	47.7	45.5		

2 - Pole, 3 - Phase, 380-415V, 50Hz (2900rpm) Single Stage

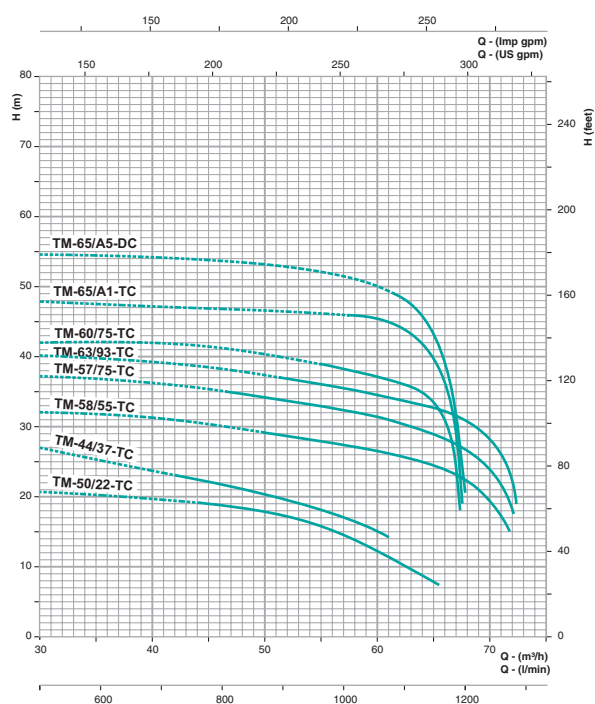
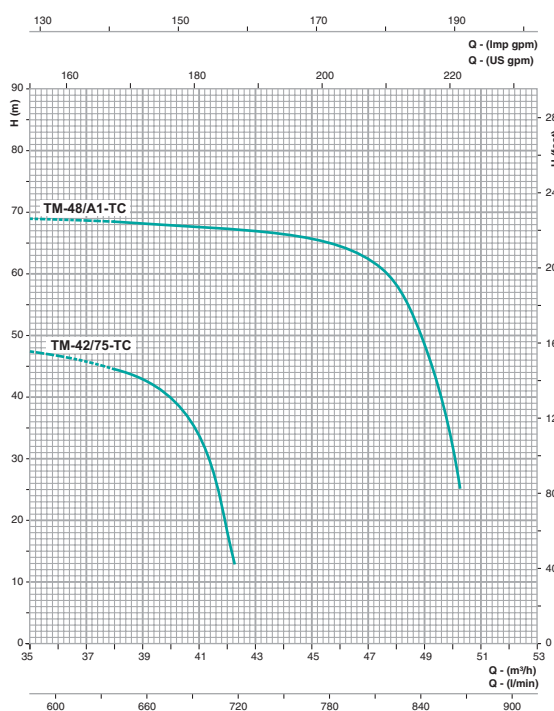
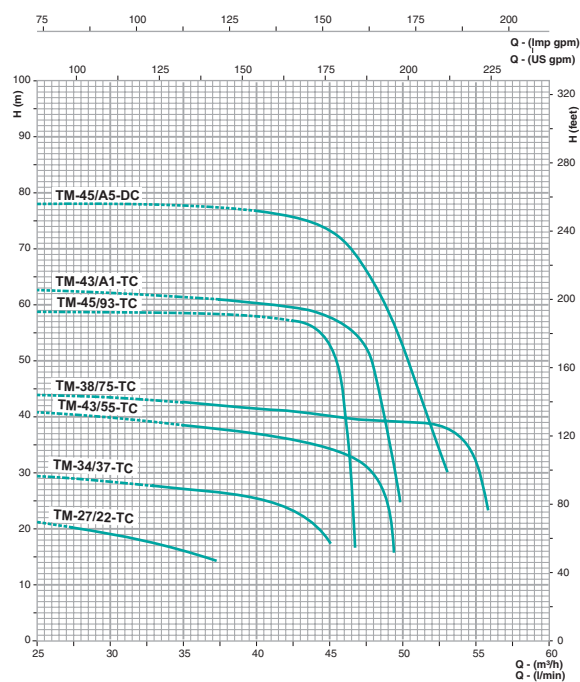
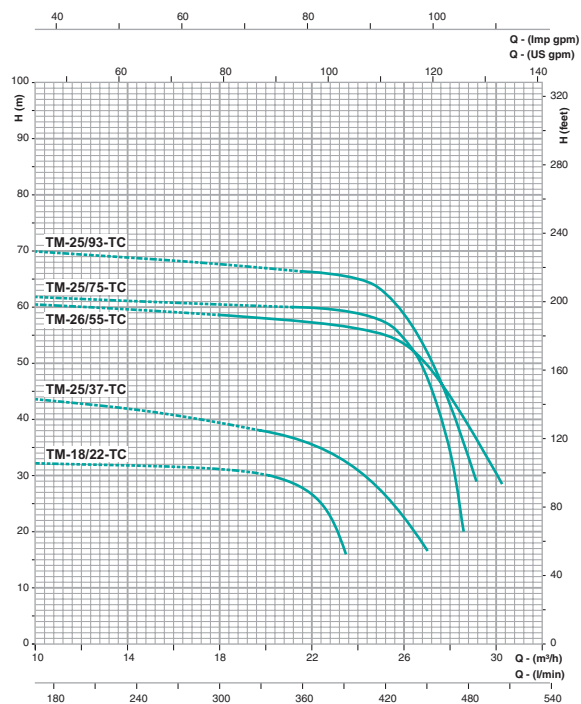
PUMP MODEL	Motor Power		Nominal Pump Size in inches (Inlet x outlet)		Total Head in Metres													
	kW	HP			7.5	10	15	20	25	30	35	40	45	50	55	60	65	70
TM-50/22-TC	2.2	3.0	3 x 2½	Discharge in m³/h	65.5	62.5	56	51 (17.5m)										
TM-44/37-TC	3.7	5.0	3 x 2½				59	51 (22m)										
TM-58/55-TC	5.5	7.5	3 x 2½				71.5	70	64	46.5 (31m)								
TM-57/75-TC	7.5	10	3 x 2½					71.5	69.5	63	46.5	40 (36m)						
TM-60/75-TC	7.5	10	3 x 2½					67	66.5	66	64	59.5 (37.5m)						
TM-63/93-TC	9.3	12.5	3 x 2½					72.5	71.5	69	59	40 (39m)						
TM-65/A1-TC	11	15	3 x 2½					67.5	67.2	66.7	66.2	65	61	50 (47m)				
TM-65/A5-DC	15	20	3 x 2½						67.5	67	66.5	65.8	64.5	60	50 (53m)			

Note :

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* All data are at rated input.

TM - SERIES Performance Curves



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

TM - SERIES > Performance Data

2 - Pole, 3 - Phase, 380-415V, 50Hz (2900rpm) Single Stage

PUMP MODEL	Motor Power		Nominal Pump Size in inches (Inlet x outlet)		Total Head in Metres												
	kW	HP			20	25	30	35	40	45	50	55	60	65	70	75	80
TM-77/A1-TC	11	15	3 x 3	Discharge in m ³ /h	68.2	68	67.7	67.3	66.7	63							

2 - Pole, 3 - Phase, 380-415V, 50Hz (2900rpm) Single Stage

PUMP MODEL	Motor Power		Nominal Pump Size in inches (Inlet x outlet)		Total Head in Metres												
	kW	HP			10	15	20	25	30	35	40	45	50	55	60	65	70
TM-69/37-TC	3.7	5.0	4 x 3	Discharge in m³/h	91 (11m)	75	55 (18.5m)										
TM-81/55-TC	5.5	7.5	4 x 3			94	79	50 (24.5m)									
TM-86/75-TC	7.5	10	4 x 3			98.5	93	73	50 (28.5m)								
TM-90/93-TC	9.3	12.5	4 x 3			111.5	107	98	82	64	55 (36.5m)						
TM-83/A1-TC	11	15	4 x 3				102	100	95	85	71	55 (42.5m)					
TM-86/A5-DC	15	20	4 x 3				103.5	103	102	101	97	85	55 (44m)				

2 - Pole, 3 - Phase, 380-415V, 50Hz (2900rpm) Single Stage

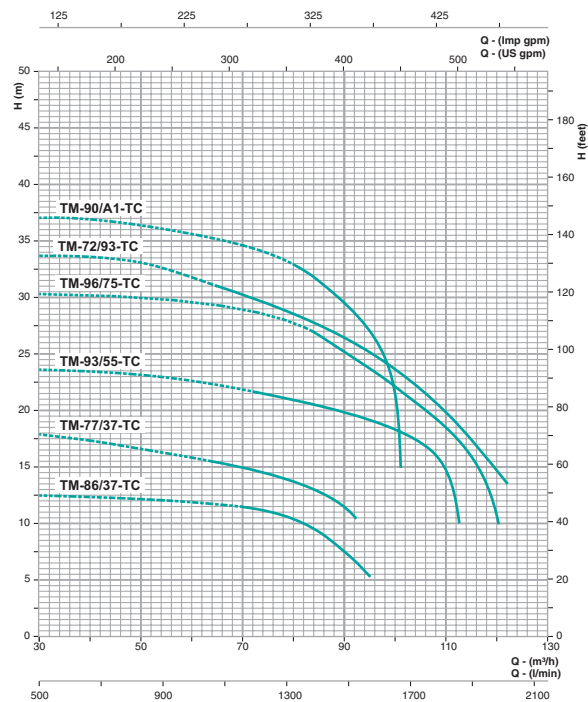
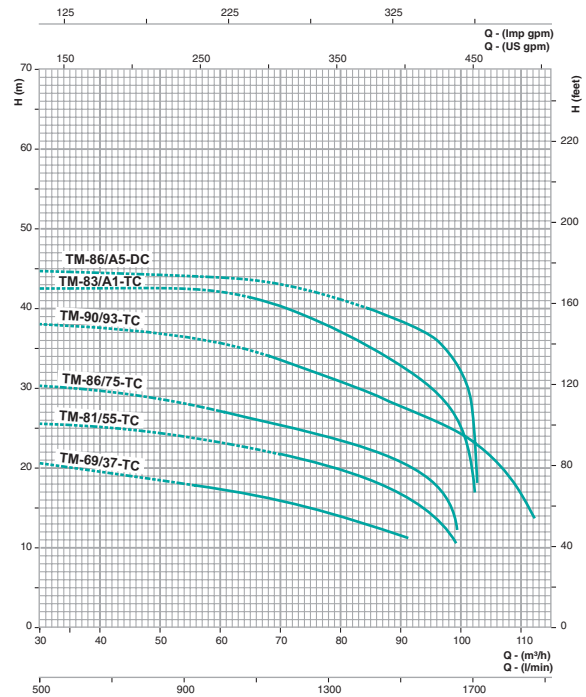
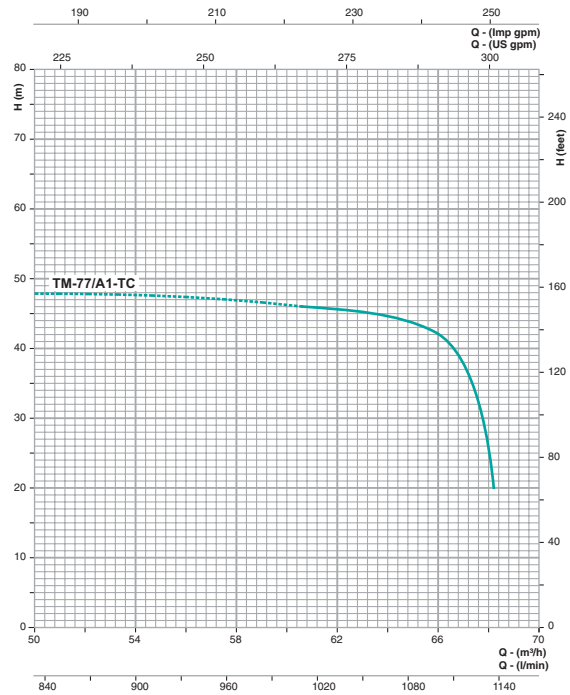
PUMP MODEL	Motor Power		Nominal Pump Size in inches (Inlet x outlet)		Total Head in Metres												
	kW	HP			5	7.5	10	12.5	15	17.5	20	22.5	25	27.5	30	32.5	35
TM-86/37-TC	3.7	5.0	4 x 4	Discharge in m³/h	95	90	82	70 (11.5m)									
TM-77/37-TC	3.7	5.0	4 x 4				93	86	70	58 (16m)							
TM-93/55-TC	5.5	7.5	4 x 4					100	95	90	82	69					
TM-96/75-TC	7.5	10	4 x 4					120	116	112	106	100	91	80	50		
TM-72/93-TC	9.3	12.5	4 x 4						120	115	110	103	95.5	85	71	50	
TM-90/A1-TC	11	15	4 x 4							101	100.5	99.5	97.5	94	89	81	66

Note :

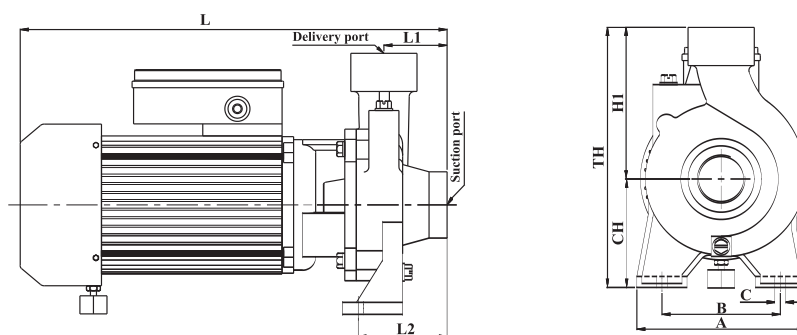
* In view of continuous development the information / description / specification / Illustration given are subject to change without notice.

* All data are at rated input.

TM - SERIES Performance Curves



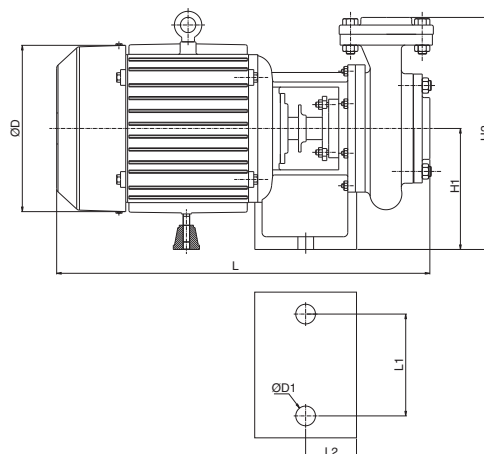
TM - SERIES > Dimensional Drawing



Nett Weight & Dimensions

PUMP MODEL	Motor kW	Suction Port (NPT) in inches	Delivery Port (NPT) in inches	Dimensions mm									Approx. Nett Weight Kg
	A	B	C	L	L1	L2	A	B	C	CH	H1	TH	
TM-5.4/03-SC	0.37	1	1	290.0	55.0	88.0	150.0	112.0	10.5	84.0	126.0	210.0	12.40
TM-5/03-SC	0.37	1	1	300.0	36.0	88.0	165.0	118.0	10.5	90.0	135.0	225.0	13.50
TM-7/05-SC	0.55	1	1	325.0	65.0	90.0	190.0	145.0	10.5	100.0	150.0	250.0	17.50
TM-7/07-SC	0.75	1	1	370.0	65.0	90.0	190.0	138.0	10.5	108.0	142.0	250.0	18.70
TM-9/07-SC	0.75	1¼	1	370.0	65.0	90.0	190.0	138.0	10.5	108.0	142.0	250.0	19.20
TM-13/07-SC	0.75	1½	1¼	380.0	75.0	96.0	185.0	133.0	10.5	108.0	157.0	265.0	19.20
TM-20/11-SC	1.1	2	1¼	405.0	65.0	9.0	200.0	155.0	10.5	108.0	157.0	265.0	26.00
TM-13/11-SC	1.1	1½	1¼	405.0	60.0	31.5	205.0	153.0	11.0	122.0	173.0	295.0	26.70
TM-8/11-SC	1.1	1	1	400.0	65.0	90.0	190.0	138.0	10.5	108.0	142.0	250.0	24.00
TM-21.6/15-SC	1.5	2	2	430.0	70.0	8.5	200.0	152.0	11.0	108.0	162.0	270.0	28.60
TM-20/22-SC	2.2	2	2	464.0	67.0	8.5	232.0	121.0	11.0	121.0	178.0	299.0	28.60
TM-23/15-SC	1.5	2	1½	430.0	70.0	8.5	200.0	152.0	11.0	108.0	162.0	270.0	28.25
TM-13/15-SC	1.5	2	1½	430.0	65.0	7.5	230.0	178.0	11.0	122.0	178.0	300.0	29.50
TM-30/15-SC	1.5	2½	2	440.0	75.0	13.5	200.0	152.0	11.0	108.0	172.0	280.0	28.75
TM-30/22-SC	2.2	2½	2	464	75.0	13.5	200.0	104.0	11.0	108.0	172.0	280.0	28.80
TM-6.2/11-SS	1.1	1¼	1¼	400.0	60.0	84.0	230.0	179.0	10.5	122.0	178.0	300.0	19.30
TM-5.4/03-SS	0.37	1	1	400.0	60.0	84.0	230.0	179.0	10.5	122.0	178.0	300.0	19.45
TM-7/05-SS	0.55	1	1	400.0	60.0	84.0	230.0	179.0	10.5	122.0	178.0	300.0	19.30
TM-5/03-SS	0.37	1	1	400.0	60.0	84.0	230.0	179.0	10.5	122.0	178.0	300.0	19.30
TM-7/07-SS	0.75	1	1	400.0	60.0	84.0	230.0	179.0	10.5	122.0	178.0	300.0	19.45
TM-5.5/07-SS	0.75	1	1	400.0	60.0	84.0	230.0	179.0	10.5	122.0	178.0	300.0	19.45
TM-6/07-SS	0.75	1	1	395.0	60.0	91.0	190.0	140.0	10.5	108.0	162.0	270.0	19.45

TM - SERIES > Dimensional Drawing



Nett Weight & Dimensions

PUMP MODEL	Motor kW	Suction Port (NPT) in inches	Delivery Port (NPT) in inches	Dimensions mm							Approx. Nett Weight Kg
				L	H1	H2	ØD	ØD1	L1	L2	
TM-18/22-TC	2.2	2	1½	575.0	140.0	348.0	229.0	18.50	130.0	56.0	62.0
TM-25/37-TC	3.7	2	1½	575.0	140.0	348.0	229.0	18.50	130.0	56.0	77.0
TM-26/55-TC	5.5	2	1½	600.0	151.0	360.0	257.0	18.50	158.0	60.0	93.0
TM-25/75-TC	7.5	2	1½	650.0	151.0	361.0	257.0	18.50	158.0	60.0	103.0
TM-25/93-TC	9.3	2	1½	650.0	191.0	420.0	257.0	18.50	158.0	60.0	108.0
TM-27/22-TC	2.2	2½	2	575.0	140.0	348.0	229.0	18.50	130.0	56.0	62.0
TM-34/37-TC	3.7	2½	2	575.0	140.0	313.0	229.0	18.50	130.0	56.0	77.0
TM-43/55-TC	5.5	2½	2	600.0	151.0	359.0	257.0	18.50	158.0	60.0	93.0
TM-38/75-TC	7.5	2½	2	650.0	151.0	359.0	257.0	18.50	158.0	60.0	103.0
TM-42/75-TC	7.5	2½	2	650.0	151.0	359.0	257.0	18.50	158.0	60.0	103.0
TM-45/93-TC	9.3	2½	2	650.0	195.0	421.0	257.0	18.50	158.0	60.0	108.0
TM-43/A1-TC	11	2½	2	710.0	195.0	440.0	307.0	18.50	185.0	62.0	113.0
TM-48/A1-TC	11	2½	2	710.0	195.0	440.0	307.0	18.50	185.0	62.0	113.0
TM-45/A5-DC	15	2½	2	710.0	195.0	440.0	315.0	18.50	185.0	62.0	162.0
TM-50/22-TC	2.2	3	2½	575.0	140.0	348.0	229.0	18.50	130.0	56.0	62.0
TM-44/37-TC	3.7	3	2½	575.0	140.0	348.0	229.0	18.50	130.0	56.0	77.0
TM-58/55-TC	5.5	3	2½	600.0	151.0	377.0	257.0	18.50	158.0	60.0	93.0
TM-57/75-TC	7.5	3	2½	650.0	151.0	377.0	257.0	18.50	158.0	60.0	103.0
TM-60/75-TC	7.5	3	2½	650.0	151.0	377.0	257.0	18.50	158.0	60.0	103.0
TM-63/93-TC	9.3	3	2½	650.0	195.0	420.0	257.0	18.50	158.0	60.0	108.0
TM-65/A1-TC	11.0	3	2½	710.0	195.0	428.0	307.0	18.50	185.0	62.0	113.0
TM-65/A5-DC	15.0	3	2½	710.0	195.0	428.0	315.0	18.50	185.0	62.0	162.0
TM-77/A1-TC	11.0	3	3	710.0	195.0	428.0	307.0	18.50	185.0	62.0	113.0
TM-69/37-TC	3.7	4	3	575.0	140.0	313.0	229.0	18.50	130.0	56.0	77.0
TM-81/55-TC	5.5	4	3	600.0	151.0	366.0	257.0	18.50	158.0	60.0	93.0
TM-86/75-TC	7.5	4	3	650.0	151.0	366.0	257.0	18.50	158.0	60.0	130.0
TM-90/93-TC	9.3	4	3	650.0	195.0	410.0	257.0	18.50	158.0	60.0	108.0
TM-83/A1-TC	11	4	3	710.0	195.0	428.0	307.0	18.50	185.0	62.0	113.0
TM-86/A5-DC	15	4	3	710.0	195.0	440.0	315.0	18.50	185.0	62.0	162.0
TM-86/37-TC	3.7	4	4	575.0	140.0	313.0	229.0	18.50	130.0	56.0	77.0
TM-77/37-TC	3.7	4	4	575.0	140.0	313.0	229.0	18.50	130.0	56.0	77.0
TM-93/55-TC	5.5	4	4	600.0	151.0	361.0	257.0	18.50	158.0	60.0	93.0
TM-96/75-TC	7.5	4	4	650.0	151.0	361.0	257.0	18.50	158.0	60.0	103.0
TM-72/93-TC	9.3	4	4	710.0	195.0	436.0	257.0	18.50	185.0	60.0	108.0
TM-90/A1-TC	11	4	4	710.0	195.0	428.0	307.0	18.50	185.0	62.0	113.0

GENERAL DATA

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	Barrel per day
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	4.526	0.2728	9.6326	0.105	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	Millilitre 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	27.317	28.317	6.2288	7.4805	1

Liquid Head and Pressure

newton per square m/m ² or (Pa)	kilo pascal kPa	bar bar	kilogram force per square centimeter Kgf/cm ²	pound force per square inch psl	Foot for water ft H ₂ O	meter of water mH 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	0.295
1 X 10 ⁻⁵	100	1	1.02	14.5	33.52	10.02	750.1	29.53
98,067	98.07	0.981	1	14.22	32.52	10	735.6	28.96
6895	6.895	0.069	0.0703	1	2.31	0.703	51.72	0.036
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	0.891
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

GENERAL DATA

CONVERSION CHART

Length

Millimeter mm	Centimeter cm	Meter m	Inch in	Feet 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

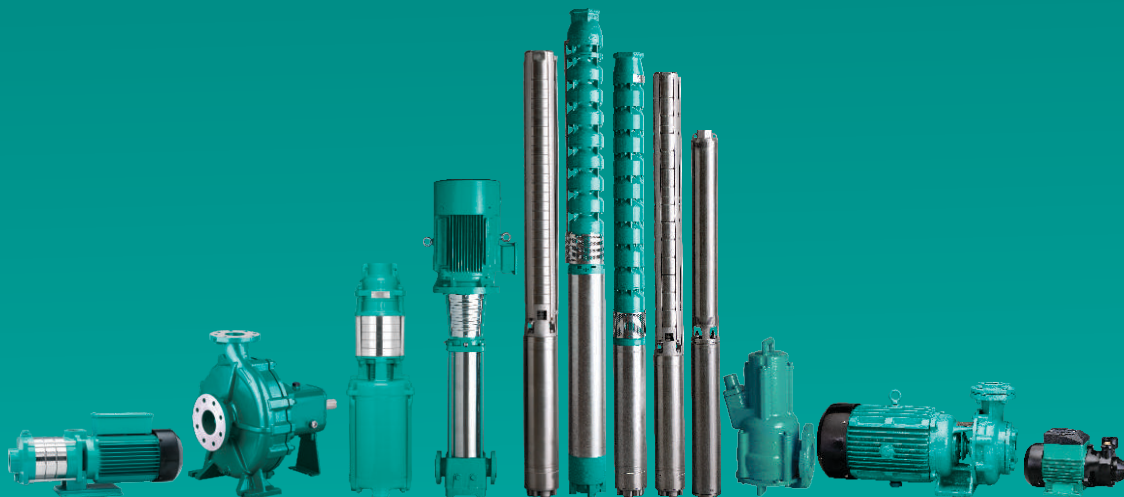
1 Kilometer = 1000 metres = 0.62137 miles 1 mile = 1609.37 metres = 1.60934 kilometres

Mass

Kilogram kg	Pound lb	Hundred weight (cwt)	tonne t	ton long tn	short ton sh tn
1	2.205	0.0197	0.001	9.84×10^{-4}	0.0011
0.454	1	0.0089	4.54×10^{-4}	4.46×10^{-4}	5.0×10^{-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 Conversion Table

From	TO	Use formula
Temperature Celsius, tc	Temperature Kelvin, tk	$K = tc + 273.15$
Temperature Fahrenheit, tf	Temperature Kelvin, tk	$K = (tf + 459.67) / 1.8$
Temperature Celsius, tc	Temperature Fahrenheit, tf	$F = 1.8 tc + 32$
Temperature Fahrenheit, tf	Temperature Celsius, tc	$C = (tf - 32) / 1.8$
Temperature Kelvin, tk	Temperature Celsius, tc	$C = tk - 273.15$
Temperature Kelvin, tk	Temperature Fahrenheit, tf	$F = 1.8tk - 459.67$



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

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

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

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

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

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