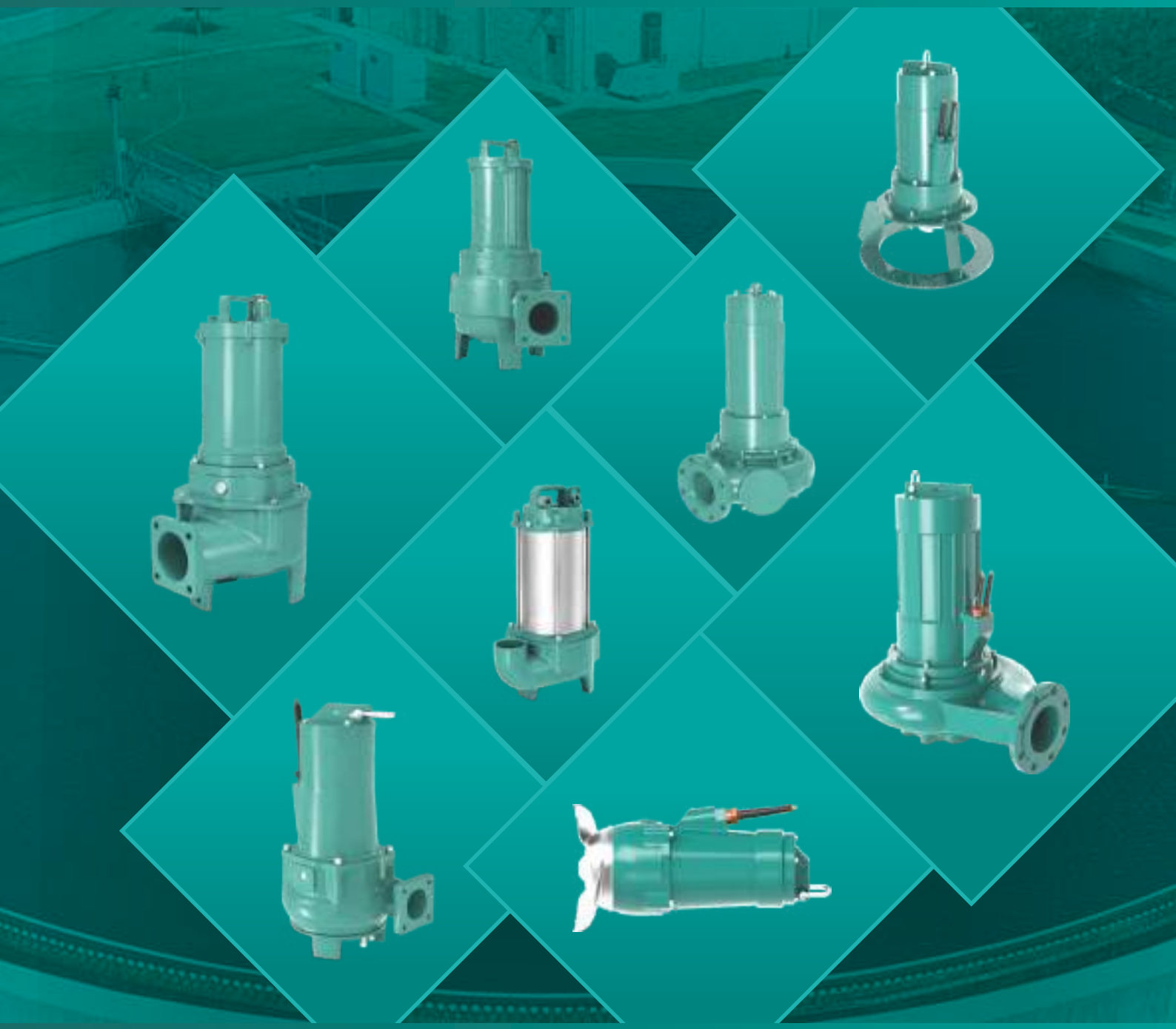
Pumping happiness across the Globe

Tormac PUMPS

THE HARD WORKING PUMP

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



WASTE WATER SUBMERSIBLE PUMPS | 50Hz

Product from an ISO 9001 COMPANY

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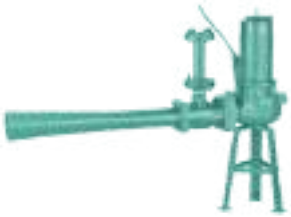

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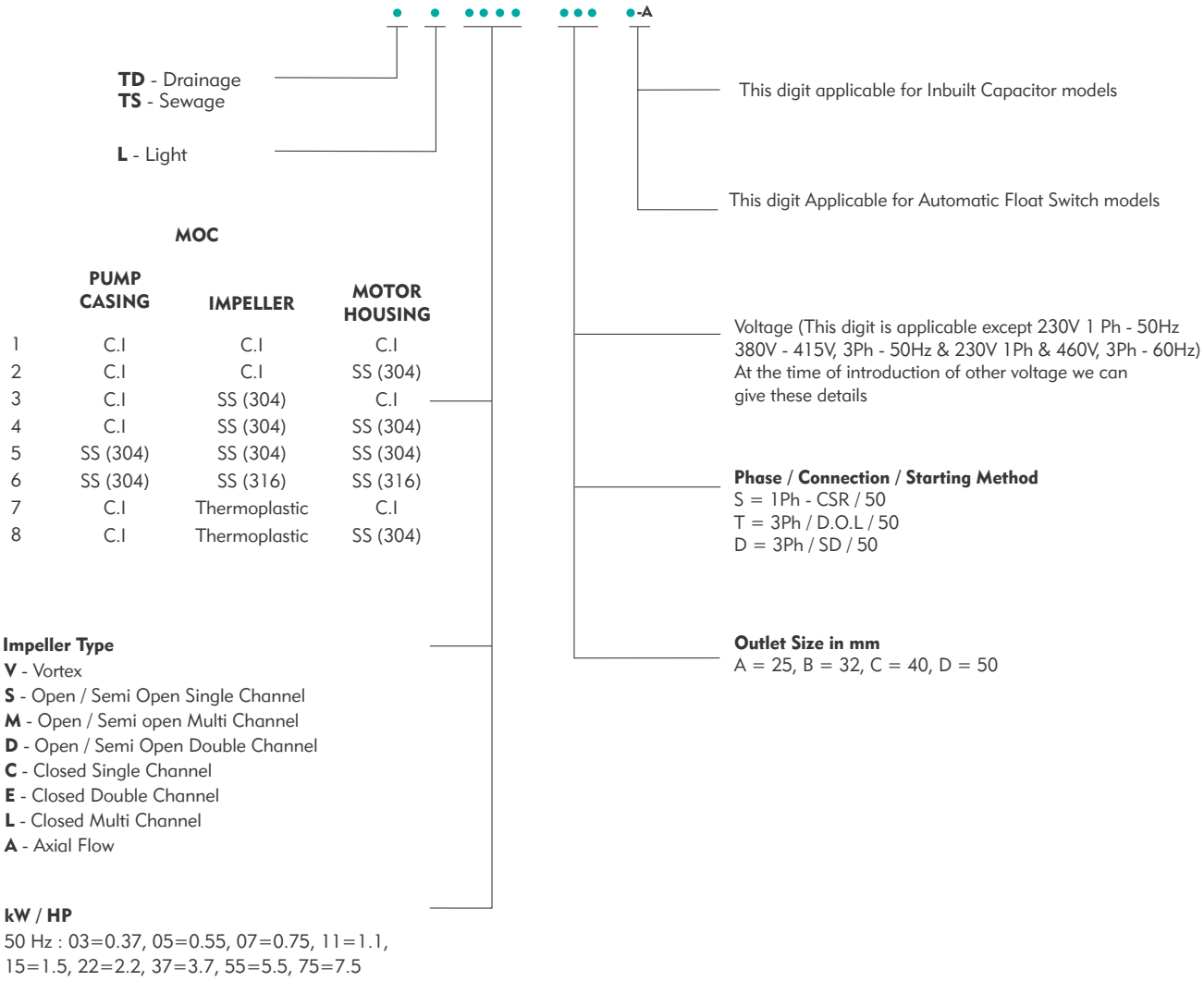
TSL SERIES



	PUMP CASING	IMPELLER	MOTOR HOUSING
1	C.I	C.I	C.I
2	C.I	C.I	SS (304)
3	C.I	SS (304)	C.I
4	C.I	SS (304)	SS (304)
5	SS (304)	SS (304)	SS (304)
6	SS (304)	SS (316)	SS (316)
7	C.I	Thermoplastic	C.I
8	C.I	Thermoplastic	SS (304)

Name & Description	50Hz	TSL-2V-05CS-A, 0.55kW, 50Hz, 1Ph, 230V CSR Inbuilt Capacitor with Automatic Float Switch Light Sewage
		TSL-2V-05CT, 0.55kW, 50Hz, 3Ph, 380-415V Light Sewage Submersible Pumps

TDL-2V-07DS-A, 0.75kW, 50Hz, 1Ph, 230V CSR inbuilt capacitor with automatic float switch light drainage submersible pumps.
TDL-2V-07DT, 0.75kW, 50Hz, 3Ph, 380-415V Light Sewage Submersible Pumps

Model Identification Code

I-TECH SERIES

Series Name

TGB - Pumps with Curved Blade Impeller
TGT - Pumps with Grinder Impeller
TKC - Pumps with Closed Multi Channel
TMD / TTP - Mixer with Propeller
TGA - Pumps with Starlight Blade Impeller
TMC - Pumps with Closed Single Channel Impeller
TMA - Pumps with Open Single Channel
TAG - Agitator

MOC

	PUMP CASING / Agitator	IMPELLER	MOTOR HOUSING
C	C.I	C.I	C.I
G	C.I	SS (304)	C.I
U	SS (304)	SS (304)	C.I
S	SS (304)	SS (304)	SS (304)
R	C.I	SS (316)	C.I
M	SS (316)	SS (316)	C.I
N	SS (316)	SS (316)	SS (316)
O	DUPLEX	DUPLEX	DUPLEX

Impeller Type
V - Vortex
L - Closed Multi Channel
N - Non Clog Spiral
D - Open / Semi Open Double Channel
A - Axial Flow
C - Closed Single Channel
S - Open Single Channel
P - Mixer Propeller
E - Closed Double Channel
M - Open / Semi Open Multi Channel

kW / HP
50 Hz : 03=0.37, 15=1.5, 37=3.7, 45=450,
A00=100, A10=110 in kW

Special Character
R - Reduce Imp, RR - Further Reduced, 3R - Low Head,
A - Automatic with Float Switch, HF - High Flow

No. of Pole - This digit is applicable only for pumps other than 2 pole design
50 Hz - 4 = 4 Pole, 6 = 6 Pole, 8 = 8 Pole

Voltage (This digit is applicable except 230V 1 Ph - 50Hz 380V - 415V 50Hz, 3Ph)
F = 240, G = 300, H = 350, N = 525, P = 575

Phase / Connection / Starting Method
50 Hz = M - 1 Ph, Ms - 1 Ph with control panel with manual start,
T - 3 Ph / D.O.L, D - 3 Ph / S.D

Outlet Size in mm
A = 25, B = 32, C = 40, D = 50, E = 65, F = 80,
G = 100, H = 125, I = 150, J = 200, K = 250, L = 300,
M = 350, N = 400, P = 450.

* Pump with inbuilt thermal overload protector
# Pump with inbuilt moisture sensor
● Pump with inbuilt capacitor
❑ Dry pit model

Model Name & Description
50 Hz : TGB-CV26-ET, 2.6 kW, 50 Hz, 3Ph, 415V, 2 pole DOL Sewage Submersible Pump
50 Hz : TGB-CV26-ETN, 26 kW, 50 Hz, 3Ph, 525V, 2 pole DOL Sewage Submersible Pump

50 Hz : TKC-CL250-LT-83R, 25 kW, 50 Hz, 3Ph, 415V, 8 Pole DOL Sewage Submersible Pump

50 Hz : TMD-RP08-T4, 0.8 kW, 50 Hz, 3Ph, 415V, 2 Pole DOL Mixer

50 Hz : TAG-C08-MR, 0.8 kW, 50 Hz, 3 Ph, 415 V, 2 Pole DOL Agitator

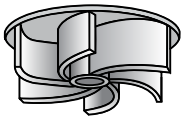
TSL Series

TSL series pumps are equipped with vortex impeller. The benefit of a vortex impeller over a channel impeller is the minimised risk of clogging. A Vortex impeller is also a better choice when the pumped liquid has a high content of sand. TSL Series pumps have large free passage upto 1" in diameter suitable for lifting of sewage liquids, civil waste and industrial water containing solids and viscous materials, heavy muds or fermented sludge.

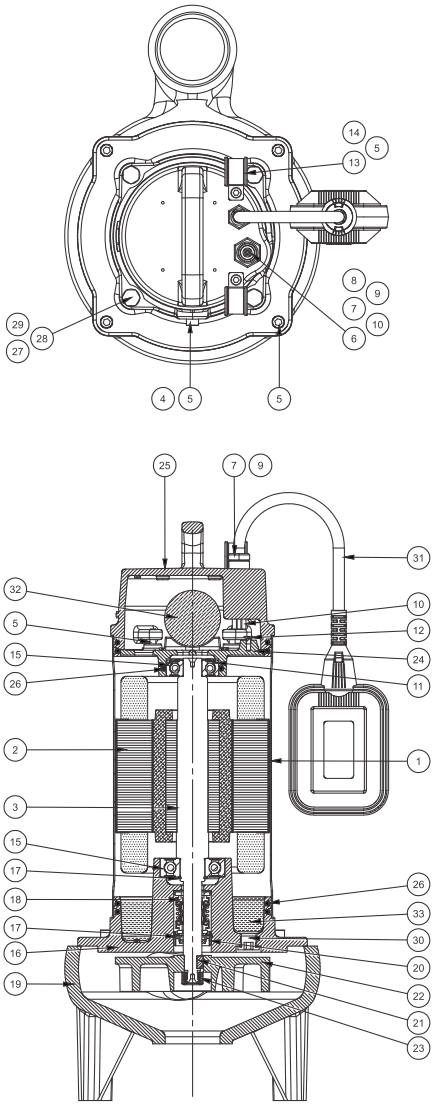
Operating parameters	
Max Flow	upto 43.2m³/hr
Max Head	upto 18.1m
Impeller Type	Vortex - Curved vane
Outlet Size	40, 50 & 65mm
Max Solid Size	upto 25mm
Maximum Liquid Temperature	upto 40°C
Service	S1 Duty
No. of Starts / Per Hour	20
Max. immersion depth	20m
pH range	6 to 12
Liquid Viscosity	1 mm²/s
Liquid Density	1kg/dm³
Max. Noise level	≤ 70dB

Specifications	
Power Range	0.55 to 2.2 kW
Power Supply	230V - Single phase & 380-415V - Three Phase, 50Hz, AC.
Ingress Protection	IP68
Motor	Dry Type Induction motor
Speed	2850 rpm
Class of Insulation	H
Thermal Overload Protector	* Available
Starting Method	Single Phase - CSR, Three Phase - DOL
Shaft Seal	Single Face & Double Face Single Mechanical seal
Mechanical Seal Face Combination	Silicon Carbide / Silicon Carbide
Bearing Type	Shielded prelubricated bearing
Cable Type	HO7RNF
Standard Cable Length	10m

Material of Construction	
Casing	Cast iron EN-GJL-260
Impeller	Cast iron EN-GJL-260
Motor Body Tube	Stainless Steel AISI 304
Shaft	Stainless Steel X30 Cr13 (AISI 420)
Fasteners	Stainless Steel A2 (AISI 304)



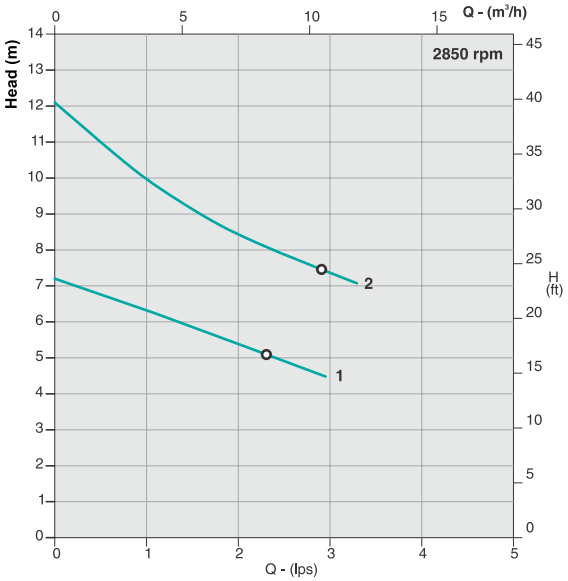
Cross Sectional Drawing



1. Body Tube
2. Wound Stator
3. Rotor Shaft
4. Washer - PTFE
5. Allen Bolt
6. Cable
7. Cable Gland
8. Washer - Brass
9. Grommet
10. Ring Staple
11. Wave Washer
12. Screw
13. Bush
14. Clamp
15. Bearing
16. Motor Flange
17. Circlip
18. Mechanical Seal
19. Casing
20. Oil Seal
21. Key
22. Impeller
23. Hex Nut
24. Bearing Flange
25. Motor Cover
26. O-ring
27. Tie Rod
28. Doom Nut
29. Washer Spring
30. Drain Plug
31. Float Switch
32. Capacitor
33. Oil

* The above diagram is only for illustration purpose the actual construction of the product may vary according to the model.

PERFORMANCE CURVES



PERFORMANCE TABLE

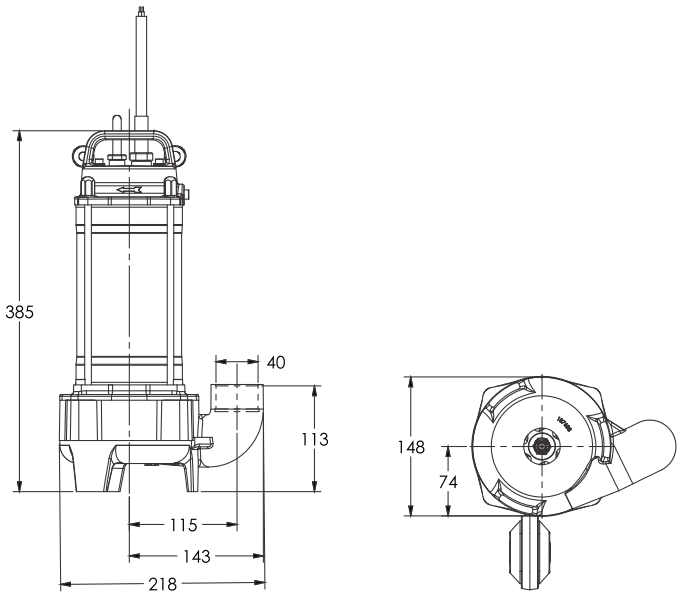
No	Model - Type	P2 kW	Volt	Supply	Amp	rpm	Delivery Size (mm)	Max. Solid Size (mm)	Weight (kg)	l/sec	0	1	2	3	4	5	6
										m³/h	0	3.6	7.2	10.8	14.4	18	21.6
1	TSL-2V-05CS-A ●	0.55	230	1Ph	3	2850	40	39	16	Head in m	7.2	6.3	5.3	4.4			
1	TSL-2V-05CT	0.55	400	3Ph	2	2850	40	39	16		7.2	6.3	5.3	4.4			
2	TSL-2V-07CS-A ●	0.75	230	1Ph	4.8	2850	40	39	16		12.1	9.9	8.4	7.3			
2	TSL-2V-07CT	0.75	400	3Ph	1.5	2850	40	39	16		12.1	9.9	8.4	7.3			

● Inbuilt capacitor hence separate control box is not required.

IDENTIFICATION CODE & POWER CABLE SIZE

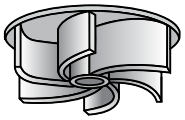
No	Model - Type	Power Cable		Control Cable	Pump Outlet flange type (inch)
		No. of Core	Size in Sq.mm		
1	TSL-2V-05CS-A	4	1.5	NA	THREADED 1½" BSP
1	TSL-2V-05CT	4	1.5	NA	THREADED 1½" BSP
2	TSL-2V-07CS-A	4	1.5	NA	THREADED 1½" BSP
2	TSL-2V-07CT	4	1.5	NA	THREADED 1½" BSP

Dimension Drawing

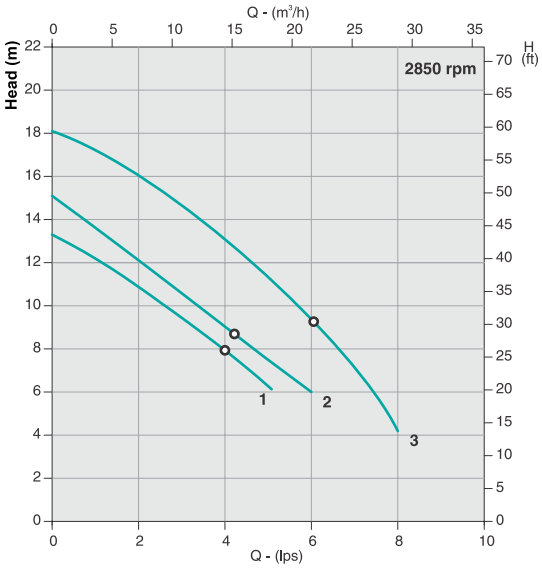


* In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

TSL Series



PERFORMANCE CURVES



PERFORMANCE TABLE

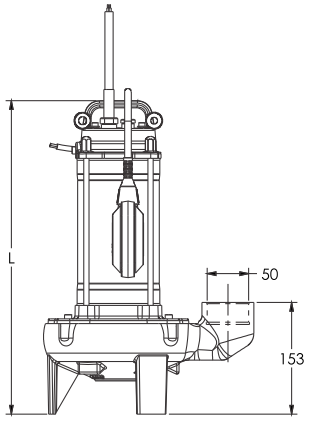
No	Model - Type	P2 kW	Volt	Supply	Amp	rpm	Delivery Size (mm)	Max. Solid Size (mm)	Weight (kg)	l/sec	0	1	2	3	4	5	6	7	8	9
										m³/h	0	3.6	7.2	10.8	14.4	18	21.6	25.2	28.8	32.4
1	TSL-2V-07DS-A●	0.75	230	1Ph	4.6	2850	50	44	20.5	Head in m	13.3	12.2	10.9	9.4	7.9	6.2				
1	TSL-2V-07DT	0.75	400	3Ph	2.1	2850	50	44	20.5		13.3	12.2	10.9	9.4	7.9	6.2				
2	TSL-2V-15DS-A●	1.5	230	1Ph	7.1	2850	50	44	23.5		15.1	13.6	12.1	10.5	9	7.4	6			
3	TSL-2V-15DT	1.5	400	3Ph	3.1	2850	50	44	23.5		18.2	17.1	15.9	14.5	13	11.3	9.6	7.9		

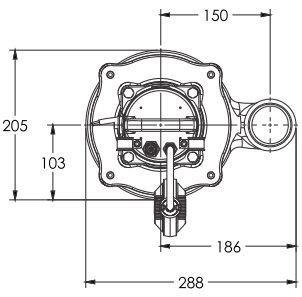
● Inbuilt capacitor hence separate control box is not required.

IDENTIFICATION CODE & POWER CABLE SIZE

No	Model - Type	Power Cable		Control Cable	Pump Outlet flange type (inch)
		No. of Core	Size in Sq.mm		
1	TSL-2V-07DS-A	4	1.5	NA	THREADED 1½" BSP
1	TSL-2V-07DT	4	1.5	NA	THREADED 1½" BSP
2	TSL-2V-15DS-A	4	1.5	NA	THREADED 1½" BSP
3	TSL-2V-15DT	4	1.5	NA	THREADED 1½" BSP

Dimension Drawing





MODEL	L
SL - 2V-07DS-A	430
SL - 2V-07DT	430
SL - 2V-15DS-A	466
SL - 2V-15DT	466

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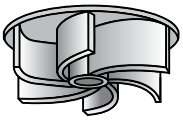
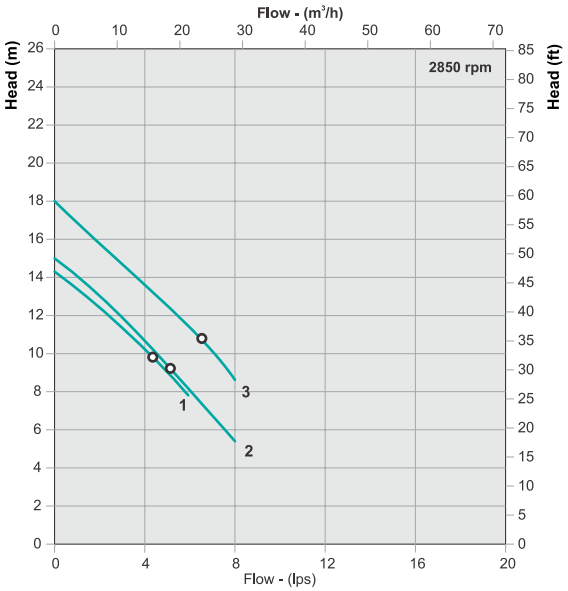


PERFORMANCE CURVES



PERFORMANCE TABLE

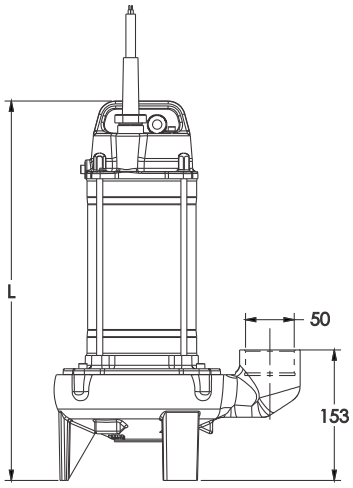
No	Model - Type	P2 kW	Volt	Supply	Amp	rpm	Delivery Size (mm)	Max. Solid Size (mm)	Weight (kg)	l/sec	0	2	4	6	8	10	12	14	16
										m³/h	0	7.2	14.4	21.6	28.8	36	43.2	50.4	57.6
1	TSL-2V-11DS-A●	1.1	230	1Ph	7.5	2850	50	44	26	Head in m	14.3	12.4	10.2	7.7					
2	TSL-2V-11DT	1.1	400	3Ph	3	2850	50	44	24		14.5	13	10.6	8.1	5.5				
3	TSL-2V-22DT	2.2	400	3Ph	4.4	2850	50	44	26		18	15.5	13.6	11.4	8.4				

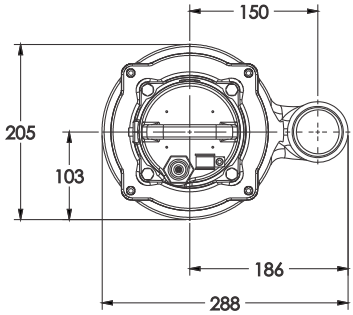
● Inbuilt capacitor hence separate control box is not required.

IDENTIFICATION CODE & POWER CABLE SIZE

No	Model - Type	Power Cable		Control Cable	Pump Outlet flange type (inch)
		No. of Core	Size in Sq.mm		
1	TSL-2V-11DS-A	4	1.5	NA	THREADED 1½" BSP
2	TSL-2V-11DT	4	1.5	NA	THREADED 1½" BSP
3	TSL-2V-22DT	4	1.5	NA	THREADED 1½" BSP

Dimension Drawing

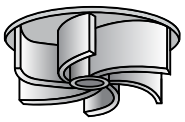




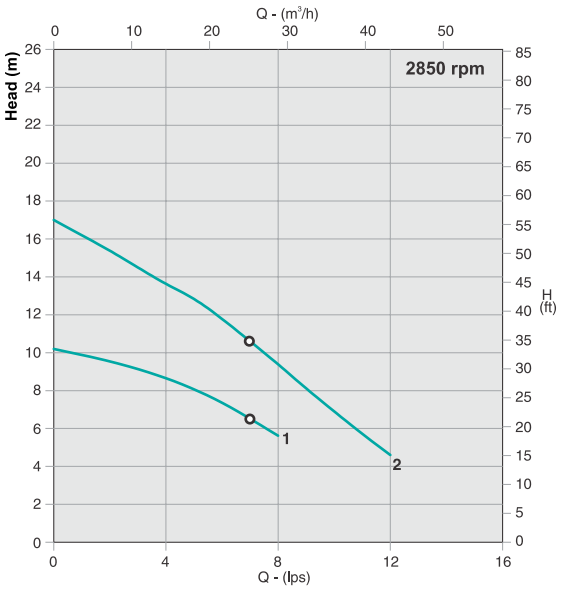
MODEL	L
SL-2V-11DS-A	465
SL-2V-11DT	445
SL-2V-22DT	465

* In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

TSL Series



PERFORMANCE CURVES



PERFORMANCE TABLE

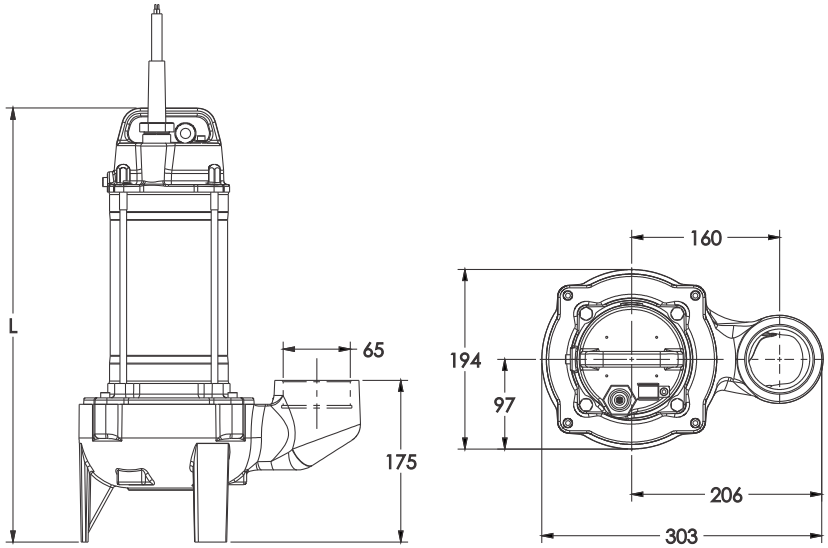
No	Model - Type	P2 kW	Volt	Supply	Amp	rpm	Delivery Size (mm)	Max. Solid Size (mm)	Weight (kg)	l/sec	0	2	4	6	8	10	12	14	16	18	20
										m³/h	0	7.2	14.4	21.6	28.8	36	43.2	50.4	57.6	64.8	72
1	TSL-2V-11ES-A●	1.1	230	1Ph	7.6	2850	65	55	26.5	Head in m	10.2	9.6	8.7	7.4	5.7						
1	TSL-2V-11ET	1.1	400	3Ph	3	2850	65	55	24.5		10.2	9.6	8.7	7.4	5.7						
2	TSL-2V-22ET*	2.2	400	3Ph	4	2850	65	55	27.5		17.1	15	13.4	11.7	9.5	6.9	4.3				

● Inbuilt capacitor hence separate control box is not required.
* Inbuilt Top

IDENTIFICATION CODE & POWER CABLE SIZE

No	Model - Type	Power Cable		Control Cable	Pump Outlet flange type (inch)
		No. of Core	Size in Sq.mm		
1	TSL-2V-11ES-A	4	1.5	NA	THREADED 2½" BSP
1	TSL-2V-11ET	4	1.5	NA	THREADED 2½" BSP
2	TSL-2V-22ET*	4	1.5	NA	THREADED 2½" BSP

Dimension Drawing



MODEL	L
SL-2V-11ES-A	490
SL-2V-11ET	470
SL-2V-22ET	490

* In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

TDL Series

Light wastewater drainage pumps are designed for pumping wastewater from residential and small commercial buildings. The motors are of dry type with H class insulation for reliable service and pumps are offered with vortex impeller for handling wastewater with minimum wear and tear. These pumps are available in both single phase and three phase motors for continuous duty. Double face mechanical seal ensures better sealing and trouble-free service for long life. All single-phase pumps are thermally protected and supplied with inbuilt capacitor hence separate control box is not required for single phase models. Also, single phase pumps are offered with float switch as standard fitment to avoid dry run in extreme operating conditions.

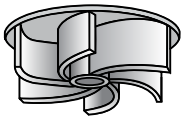
Design Features

- Stainless steel motor body
- Equipped with vortex impeller for handling wastewater with sand
- Thermal overload protector for single phase models
- Double face mechanical seal for better sealing.

Application

- Dewatering in construction sites
- Light sewage handling
- Pumping wastewater from pit, trench, and basin
- Flood control

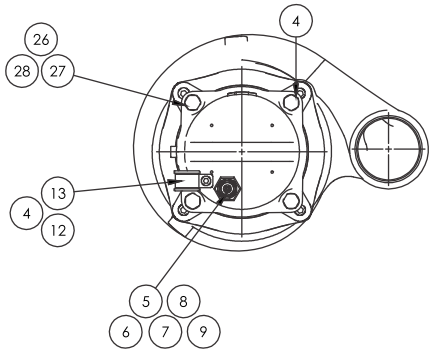
Operating parameters	
Maximum Flow	upto 25.2m³/h
Maximum Head	upto 14m
Speed	2850 RPM
Impeller Type	Vortex
Outlet Size	1¼" & 2"
Liquid Temperature	upto 40°C
Max Solid Size	10mm
Shaft Seal	Double Face Mechanical seal
Bearing Lubrication	Pre-lubricated sealed bearing
Number of starts per hour	12 times
Duty type	Continuous
pH Value	6 to 12
Liquid Viscosity	1mm²/s
Liquid density	1kg/dm³
Maximum Noise level	≤70dB

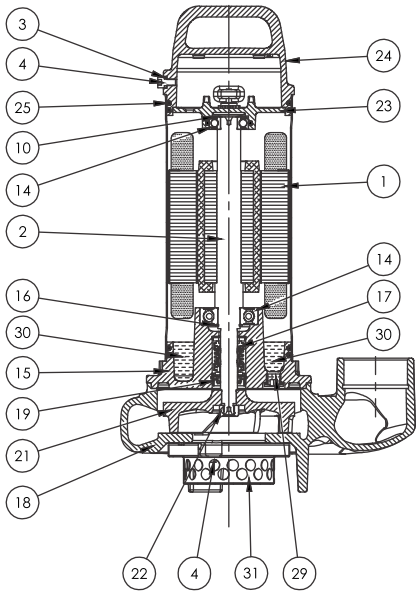


Specifications	
Power Range	0.55kW to 1.5kW
Power Supply	230V, Single Phase & 380-415V, Three Phase, 50Hz AC
Motor type	Dry type induction motor
Ingress Protection	IP68
Speed	2850RPM
Class of Insulation	H
Thermal Overload Protector / Float switch	Available in single phase models
Starting Method	Single Phase - CSR & Three Phase - DOL
Shaft seal	Double face mechanical seal
Seal face combination	Silicon Carbide & Silicon Carbide
Cable Type	HO7RNF
Standard Cable length	10m

Material of Construction	
Casing	Cast Iron EN-GJL-260
Impeller	Cast Iron EN-GJL-260
Shaft	Stainless Steel X30 Cr13 (AISI 420)
Motor Body	Stainless Steel AISI 304
Fasteners	Stainless Steel AISI 304

Cross Sectional Drawing



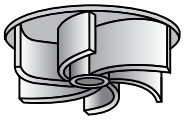


1. Body Tube with Wound Stator
2. Shaft with Die Cast Rotor
3. Washer PTFE
4. Allen Bolt
5. Cable
6. Cable Gland
7. Washer Brass
8. Grommet
9. Ring Staple
10. Wave Washer

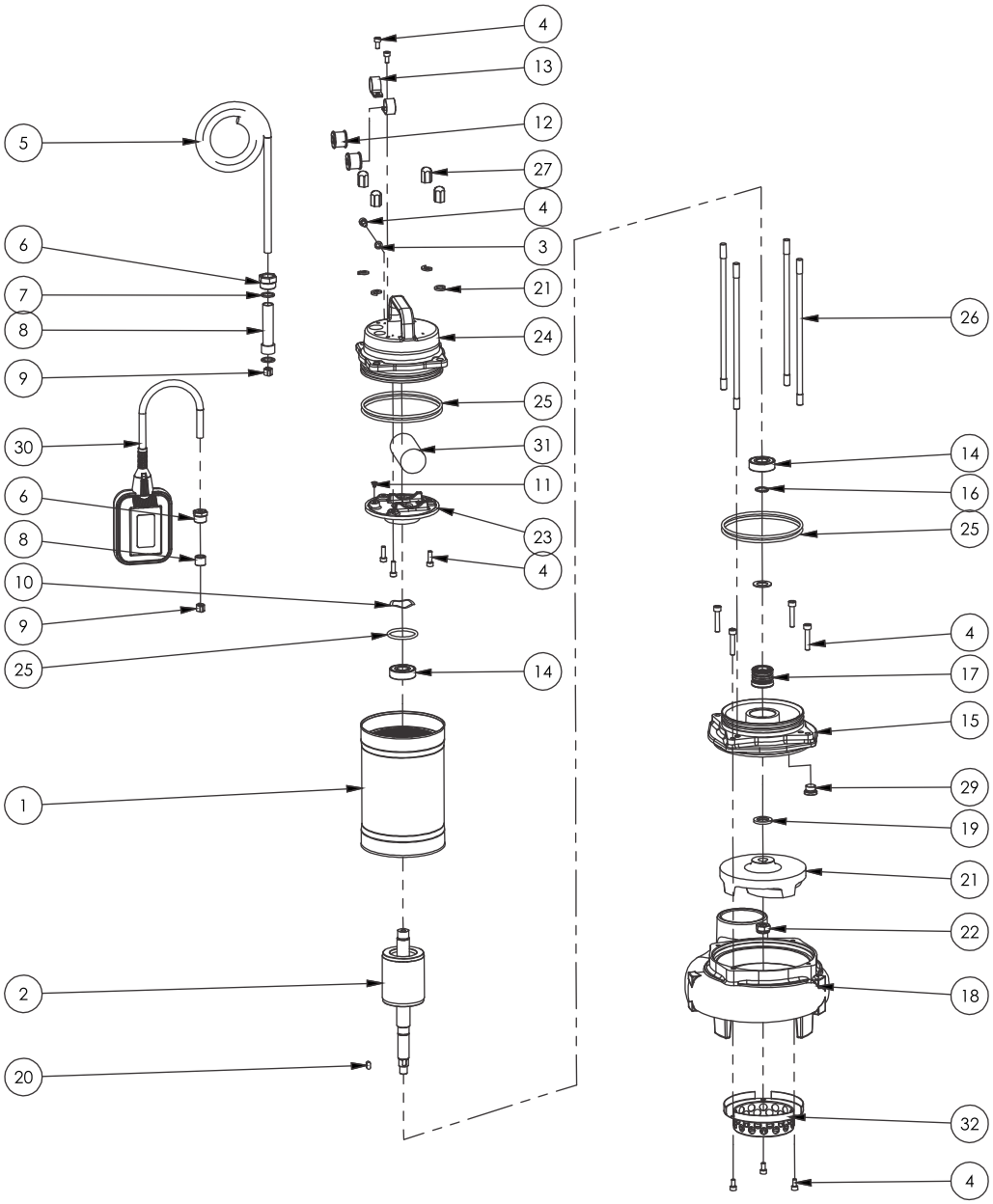
*11. Screw
12. Bush
13. Clamp
14. Bearing
15. Motor Flange
16. Circlip
17. Mechanical Seal
18. Casing
19. Oil Seal*
20. Key

21. Impeller
22. Hex Nut
23. Bearing Flange
24. Motor Cover
25. O Ring
26. Tie Rod
27. Doom Nut
28. Washer Spring
29. Drain Plug
30. Oil
31. Strainer

* The above diagram is only for illustration purpose the actual construction of the product may vary according to the model.

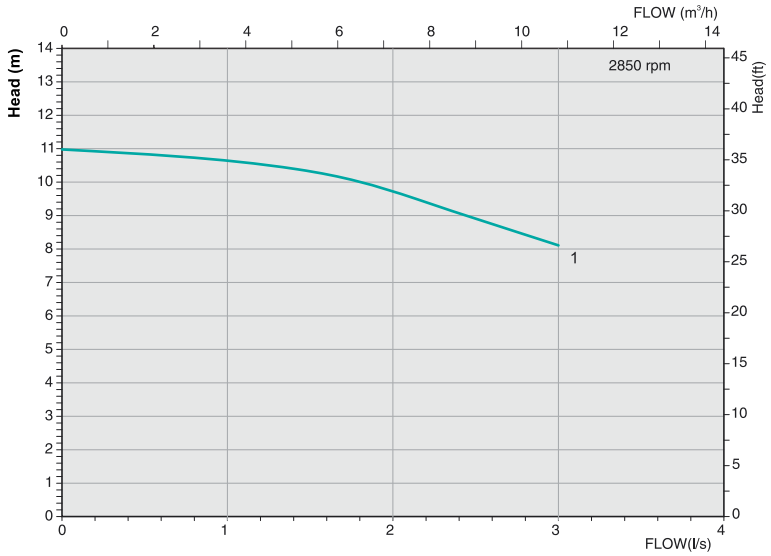


EXPLODED VIEW



1. Wound Stator
2. Rotor Shaft
3. Washer - PTFE
4. Allen Bolt
5. Cable
6. Cable Gland
7. Washer - Brass
8. Grommet
9. Ring Staple
10. Wave Washer
11. Screw
12. Bush
13. Clamp
14. Bearing
15. Motor Flange
16. Circlip
17. Mechanical Seal
18. Casing
19. Oil Seal
20. Key
21. Impeller
22. Hex Nut
23. Bearing Flange
24. Motor Cover
25. O-ring
26. Tie Rod
27. Doom Nut
28. Washer Spring
29. Drain Plug
30. Float Switch
31. Capacitor
32. Strainer

PERFORMANCE CURVES

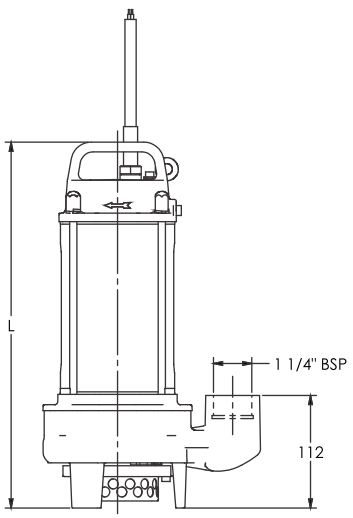


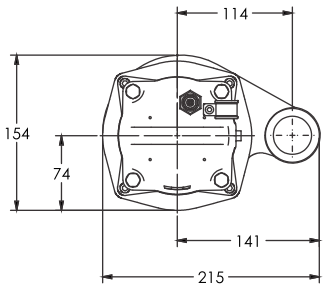
PERFORMANCE TABLE																	
No	Pump Model	P2 kW	Volt	Capacitor Value(µF)	Current in Amp	Speed in rpm	Outlet Size (inches)	Max. Solid Size (mm)	Weight (kg)	l/sec	0	1	2	3	4	5	6
										m³/h	0	3.6	7.2	10.8	14.4	18	21.6
1	TDL-2V-05BS-A ●	0.55	230	16	3	2850	1¼"	10	16	Head in m	11	10.6	9.7	7.9			
1	TDL-2V-05BT	0.55	400		2	2850	1¼"	10	16		11	10.6	9.7	7.9			

● Inbuilt capacitor hence separate control box is not required.

IDENTIFICATION CODE & POWER CABLE SIZE					
No	Model - Type	Power Cable		Control Cable	Pump Outlet flange type (inch)
		No. of Core	Size in Sq.mm		
1	TDL-2V-05BS-A	4	1.5	NA	THREADED 1½" BSP
1	TDL-2V-05BT	4	1.5	NA	THREADED 1½" BSP

Dimension Drawing

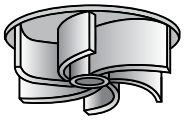




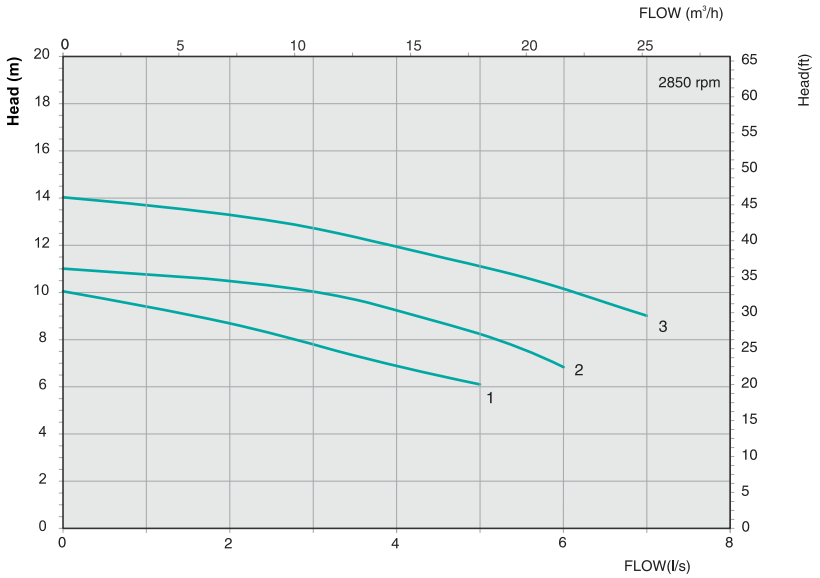
MODEL	L
DL-2V-05BS-A	384
DL-2V-05BT	384

* In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

TDL Series



PERFORMANCE CURVES



PERFORMANCE TABLE

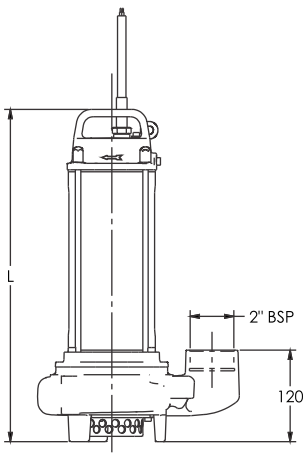
No	Pump Model	P2 kW	Volt	Capacitor Value(µF)	Current in Amp	Speed in rpm	Outlet Size (inches)	Max. Solid Size (mm)	Weight (kg)	l/sec	0	1	2	3	4	5	6	7
										m³/h	0	3.6	7.2	10.8	14.4	18	21.6	25.2
1	TDL-2V-07DS-A ●	0.75	230	16	5	2850	2"	10	18		10	9.4	8.7	7.8	6.8	5.9		
1	TDL-2V-07DT	0.75	400		2.1	2850	2"	10	18		10	9.4	8.7	7.8	6.8	5.9		
2	TDL-2V-11DS-A ●	1.1	230	30	5.5	2850	2"	10	21.5	Head in m	11	10.8	10.5	10.4	9	8.2	6.8	
2	TDL-2V-11DT	1.1	400		3.1	2850	2"	10	21.5		11	10.8	10.5	10.4	9	8.2	6.8	
3	TDL-2V-15DS-A ●	1.5	230	30	7.1	2850	2"	10	21.5		14	13.7	13.3	12.7	11.9	11.1	10.1	9
3	TDL-2V-15DT	1.5	400		3.5	2850	2"	10	21.5		14	13.7	13.3	12.7	11.9	11.1	10.1	9

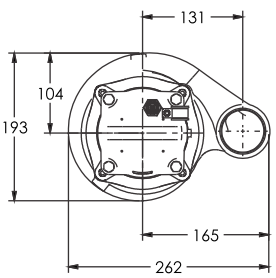
● Inbuilt capacitor hence separate control box is not required.

IDENTIFICATION CODE & POWER CABLE SIZE

No	Model - Type	Power Cable		Control Cable	Pump Outlet flange type (inch)
		No. of Core	Size in Sq.mm		
1	TDL-2V-07DS-A 3	4	1.5	NA	THREADED 2" BSP
1	TDL-2V-07DT	4	1.5	NA	THREADED 2" BSP
2	TDL-2V-11DS-A	4	1.5	NA	THREADED 2" BSP
2	TDL-2V-11DT	4	1.5	NA	THREADED 2" BSP
3	TDL-2V-15DS-A	4	1.5	NA	THREADED 2" BSP
3	TDL-2V-15DT	4	1.5	NA	THREADED 2" BSP

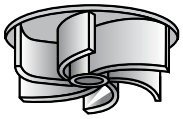
Dimension Drawing





MODEL	L
DL-2V-07DS-A	393
DL-2V-07DT	393
DL-2V-11DS-A	434
DL-2V-11DT	434
DL-2V-15DS-A	434
DL-2V-15DT	434

* In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.



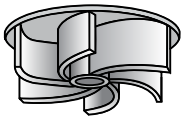
TGB Series

TGB series pumps are equipped with vortex impeller. The benefit of a vortex impeller over a channel impeller is the minimised risk of clogging. A Vortex impeller is also a better choice when the pumped liquid has a high content of sand. GB Series pumps have large free passage upto 3½" in diameter suitable for lifting of sewage liquids, civil waste and industrial waste water containing solids and viscous materials, heavy muds or fermented sludge.

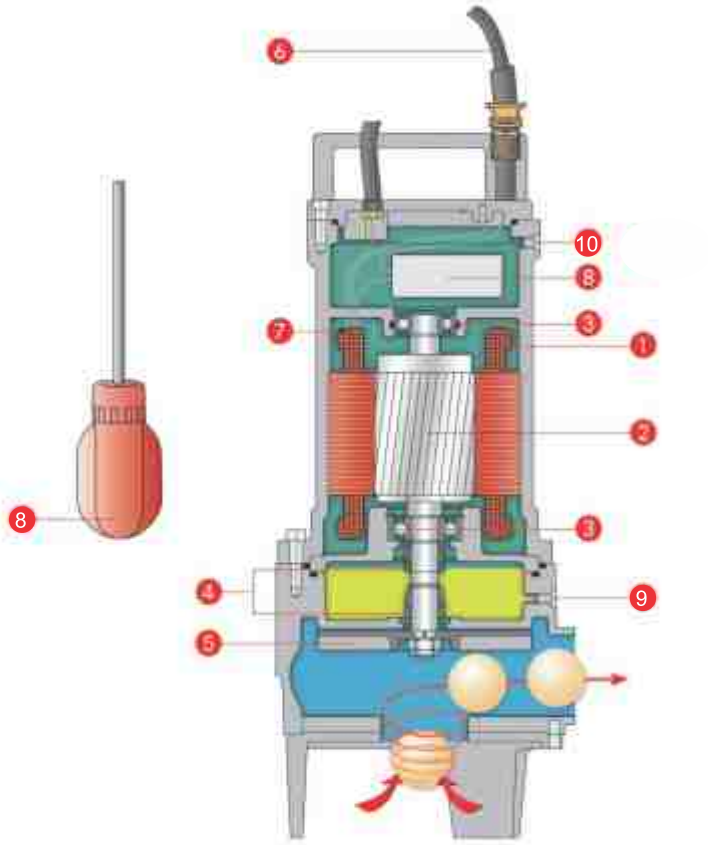
Operating parameters	
Max Flow	upto 216m³/hr
Max Head	upto 65.5m
Impeller Type	Vortex - Curved vane
Outlet Size	40 - 100mm
Max Solid Size	upto 90mm
Maximum Liquid Temperature	upto 40°C
Service	S1 Duty
No. of Starts / Per Hour	20
Max. immersion depth	20m
pH range	6 to 12
Liquid Viscosity	1 mm²/s
Liquid Density	1kg/dm³
Max. Noise level	≤ 70dB

Specifications	
Power Range	0.5 to 50 kW
Power Supply	230V - Single phase & 380-415V - Three Phase, 50Hz, AC.
Ingress Protection	IP68
Motor	Dry Type Induction motor
Speed	1450 / 2850 rpm
Class of Insulation	H
Moisture sensor	# Available
Thermal Overload Protector	* Available
Inbuilt capacitor	• Available
Starting Method	Single Phase - CSR, Three Phase - DOL & SD
Shaft Seal	Single / Double Mechanical seal
Mechanical Seal Face Combination	Motor Side : Graphite / Alumina Pump Side : Silicon Carbide / Silicon Carbide
Bearing Type	Shielded prelubricated bearing
Cable Type	HO7RNF
Standard Cable Length	10m

Material of Construction	
Casing	Cast iron EN-GJL-260
Impeller	Cast iron EN-GJL-260
Motor Housing	Cast iron EN-GJL-260
Shaft	Stainless Steel X30 Cr13 (AISI 420)
Fasteners	Stainless Steel A2 (AISI 304)

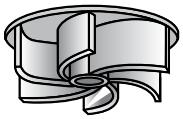


Cross Section Drawing

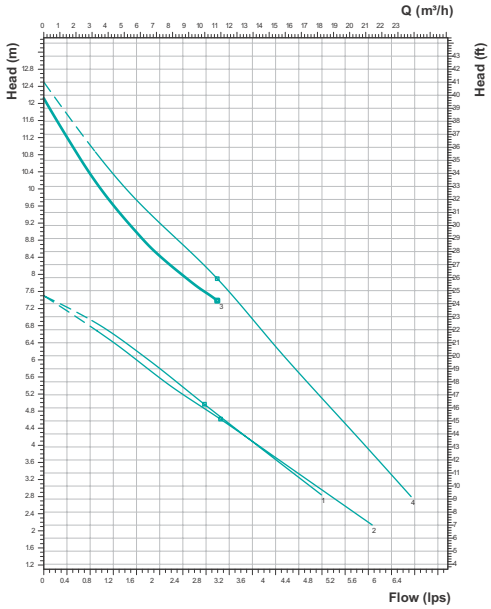


1. Fully submersible pressure tight electric motor
2. Rotor Shaft
3. Bearing
4. Mechanical seal
5. Vortex Impeller
6. Cable
7. Thermal overload protector
8. Float switch
9. Oil inspection plug
10. Air plug hole for the motor watertightness control

* The above diagram is only for illustration purpose the actual construction of the product may vary according to the model.



PERFORMANCE CURVES



PERFORMANCE TABLE

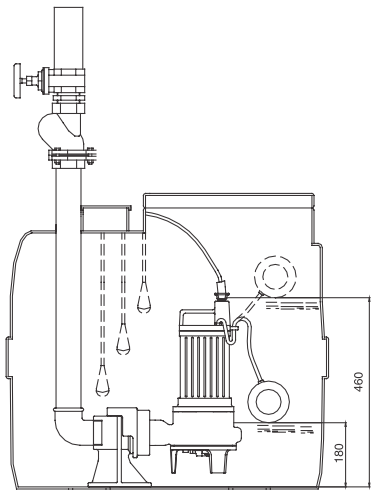
Nr	Model - Type	P1 kW	P2 kW	Volt	µF	Amp	rpm	Delivery size (mm)	Max.Solid size (mm)	Auto coupling V	Weight (kg)	l/sec	0	1	2	3	4	5	6
												m³/h	0	3.6	7.2	10.8	14.4	18	21.6
1	TGB-CV05-CM-A ●	0.65	0.5	230	16	3	2850	40	36	40N	14	Head in m	7.5	6.8	5.8	4.7	3.7		
1	TGB-CV05-CT	0.65	0.5	400		2	2850	40	36	40N	14		7.5	6.6	5.6	4.7	3.7	2.8	
2	TGB-CV08-CM-AR ●	0.9	0.8	230	16	4.8	2850	40	36	40N	14		12.1	10	8.4	7.4			
2	TGB-CV08-CT-R	0.9	0.8	400		1.5	2850	40	36	40N	14		12.5	10.7	9.2	7.9	6.3	4.8	3.3

● Inbuilt capacitor hence separate control box is not required.

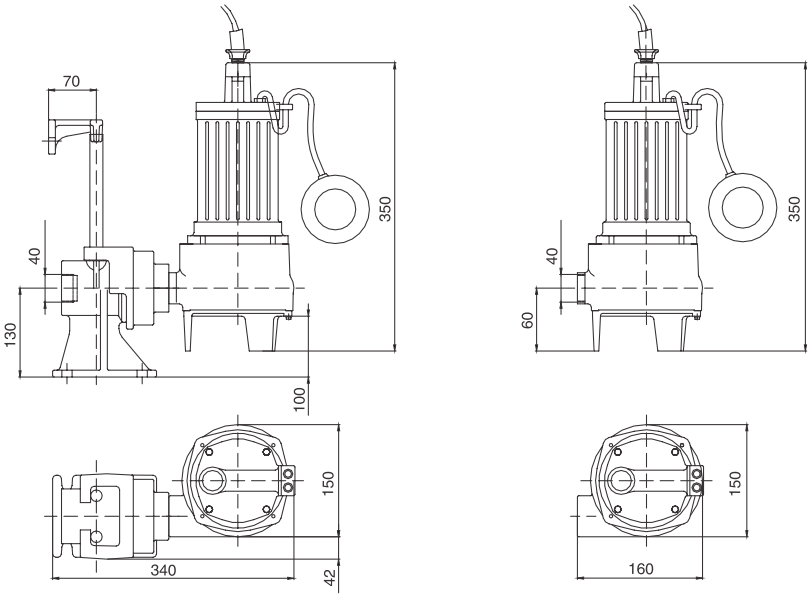
IDENTIFICATION CODE & POWER CABLE SIZE

No	Model - Type	Power Cable		Control Cable	Auto coupling Model	Auto coupling Code	Base Frame Model	Pump Outlet flange type (inch)
		No. of Core	Size in Sq.mm					
1	TGB-CV05-CM-A	4	1.5	NA	V40	146294	NA	THREADED G1½"
1	TGB-CV05-CT	4	1.5	NA	V40	146294	NA	THREADED G1½"
2	TGB-CV08-CM-AR	4	1.5	NA	V40	146294	NA	THREADED G1½"
2	TGB-CV08-CT-R	4	1.5	NA	V40	146294	NA	THREADED G1½"

INSTALLATION DRAWING

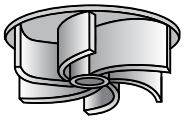


DIMENSION DRAWING

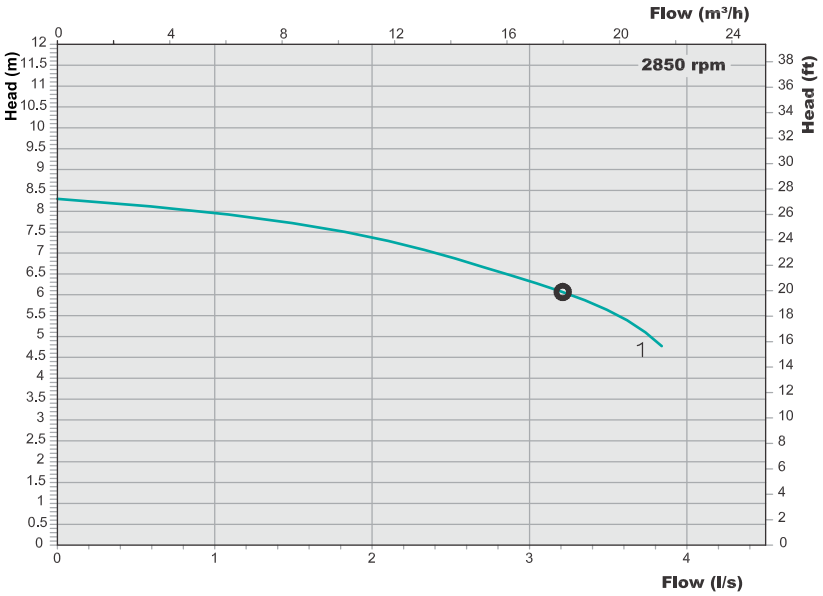


Performance curve tolerances are as per HI : 14.6 / ISO : 9906, Grade - 2B.
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

TGB Series



PERFORMANCE CURVES



PERFORMANCE TABLE

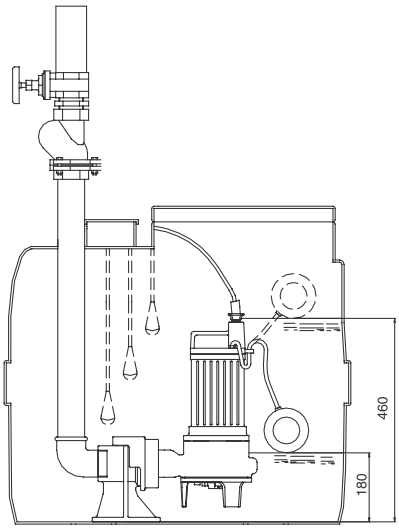
Nr	Model - Type	P1 kW	P2 kW	Volt	µF	Amp	rpm	Delivery size (mm)	Max.Solid size (mm)	Auto coupling V	Weight (kg)	l/sec	0	1	2	3	4	5	6	7
												m³/h	0	3.6	7.2	10.8	14.4	18	21.6	25.2
1	TGB-CV08-CM-A●	1.1	0.8	230	22	5	2850	40	36	40N	20	Head in m	8.3	7.8	7.3	6.3	4.4			
1	TGB-CV08-CT	1.1	0.8	400		2	2850	40	36	40N	20		8.3	7.8	7.3	6.3	4.4			

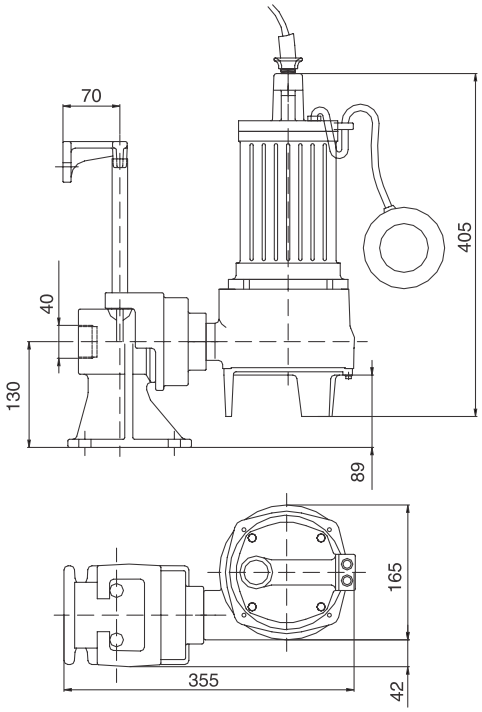
● Inbuilt capacitor hence separate control box is not required.

IDENTIFICATION CODE & POWER CABLE SIZE

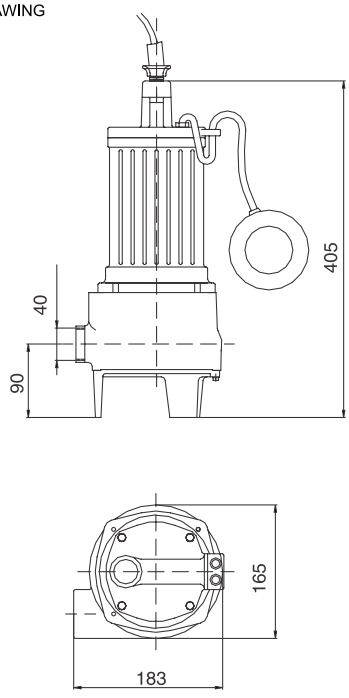
No	Model - Type	Power Cable		Control Cable	Auto coupling Model	Auto coupling Code	Base Frame Model	Pump Outlet flange type (inch)
		No. of Core	Size in Sq.mm					
1	TGB-CV08-CM-A	4	1.5	NA	V40	146294	NA	THREADED G1½"
1	TGB-CV08-CT	4	1.5	NA	V40	146294	NA	THREADED G1½"

INSTALLATION DRAWING

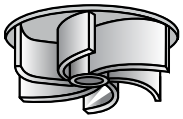




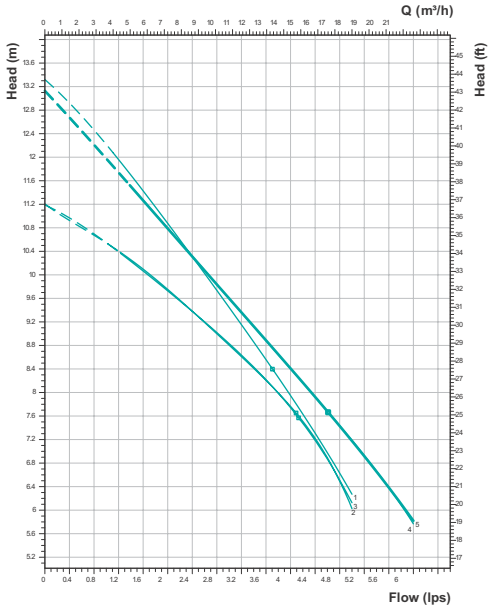
DIMENSION DRAWING



Performance curve tolerances are as per HI : 14.6 / ISO : 9906, Grade - 2B.
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.



PERFORMANCE CURVES



PERFORMANCE TABLE

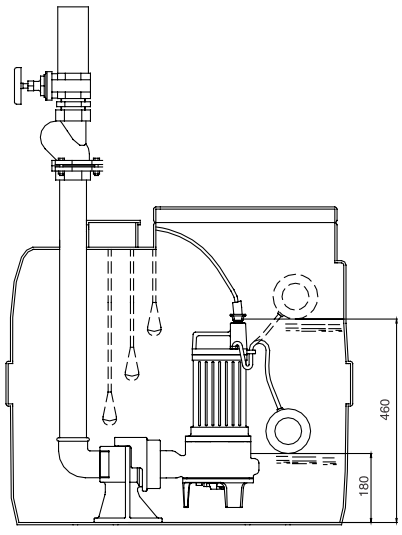
Nr	Model - Type	P1 kW	P2 kW	Volt	µF	Amp	rpm	Delivery size (mm)	Max.Solid size (mm)	Auto coupling V	Weight (kg)	l/sec	0	1	2	3	4	5	6	7	8	9
												m³/h	0	3.6	7.2	10.8	14.4	18	21.6	25.2	28.8	32.4
1	TGB-CV08-DM-AR●	1.1	0.8	230	22	5	2850	50	45	50N	24	Head in m	13.3	12.2	10.9	9.4	7.9	6.3				
2	TGB-CV08-DT-R	1.1	0.8	400		2	2850	50	45	50N	24		11.2	10.5	9.7	8.8	7.7	6				
3	TGB-CV08-DT-P	1.1	0.8	400		2.1	2850	50	45	50N	24		11.2	10.5	9.7	8.8	7.7	6				
4	TGB-CV12-DMs-AR	1.7	1.2	230	30	7.4	2850	50	45	50N	24		13.1	12	10.7	9.5	8.4	7.1	5.7			
5	TGB-CV12-DT-R	1.7	1.2	400		2.5	2850	50	45	50N	24		13.1	12	10.7	9.5	8.4	7.1	5.7			

● Inbuilt capacitor hence separate control box is not required.

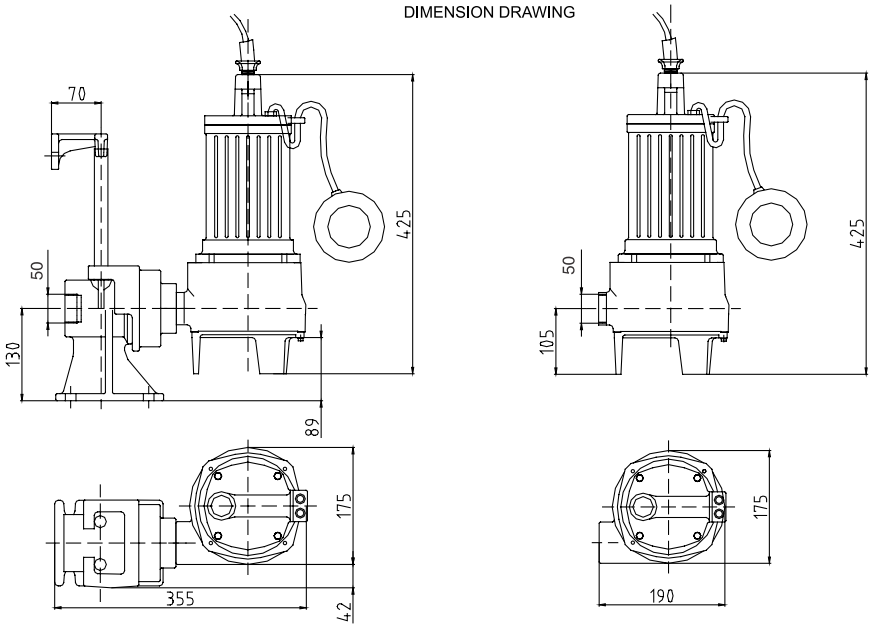
IDENTIFICATION CODE & POWER CABLE SIZE

No	Model - Type	Power Cable		Control Cable	Auto coupling Model	Auto coupling Code	Base Frame Model	Pump Outlet flange type (inch)
		No. of Core	Size in Sq.mm					
1	TGB-CV08-DM-AR	4	1.5	NA	V50N	146295	NA	THREADED 2" BSP
1	TGB-CV08-DT-R	4	1.5	NA	V50N	146295	NA	THREADED 2" BSP
2	TGB-CV08-DT-P							
2	TGB-CV12-DMs-R	4	1.5	NA	V50N	146295	NA	THREADED 2" BSP
2	TGB-CV12-DT-AR	4	1.5	NA	V50N	146295	NA	THREADED 2" BSP

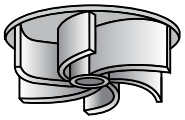
INSTALLATION DRAWING



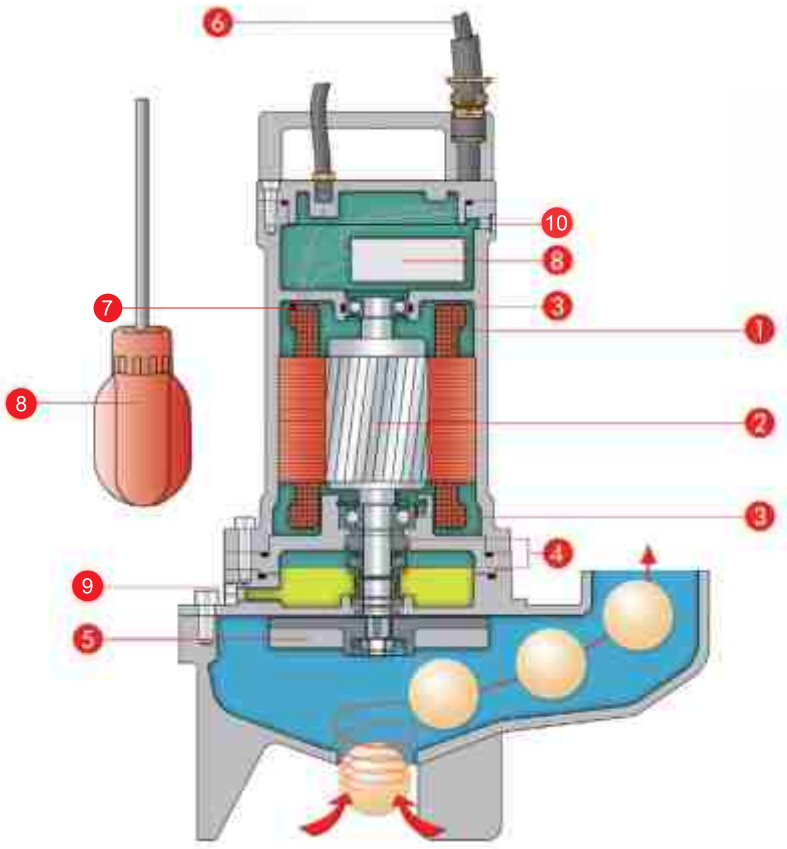
DIMENSION DRAWING



Performance curve tolerances are as per HI : 14.6 / ISO : 9906, Grade - 2B.
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

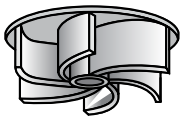


Cross Section Drawing

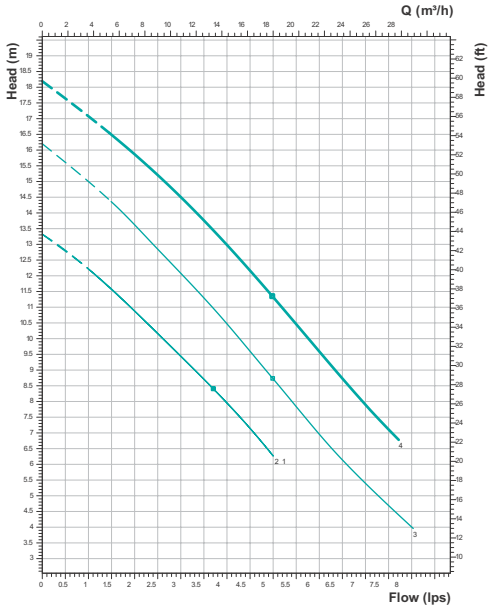


1. Fully submersible pressure tight electric motor
2. Rotor Shaft
3. Bearing
4. Mechanical seal
5. Vortex Impeller
6. Cable
7. Thermal over load protector
8. Float switch
9. Oil inspection plug
10. Air plug hole for the motor water tightness control

* The above diagram is only for illustration purpose the actual construction of the product may vary according to the model.



PERFORMANCE CURVES



PERFORMANCE TABLE

Nr	Model - Type	P1 kW	P2 kW	Volt	mF	Amp	rpm	Delivery size (mm)	Max.Solid size (mm)	l/sec	0	1	2	3	4	5	6	7	8	9
										m³/h	0	3.6	7.2	10.8	14.4	18	21.6	25.2	28.8	32.4
1	TGB-CV08-DM-A●	1	0.8	230	22	4.6	2850	50	40	Head in m	13.3	12.2	10.9	9.4	8	6.3				
1	TGB-CV08-DT	1	0.8	400		2.1	2850	50	40		13.3	12.2	10.9	9.4	7.9	6.3				
2	TGB-CV12-DMs-A	1.6	1.2	230	30	7.1	2850	50	40		15.1	13.6	12.1	10.6	9	7.5	6.1			
3	TGB-CV12-DT	1.6	1.2	400		3.1	2850	50	40		18.2	17.1	15.9	14.5	13	11.3	9.6	7.9		

● Inbuilt capacitor hence separate control box is not required.

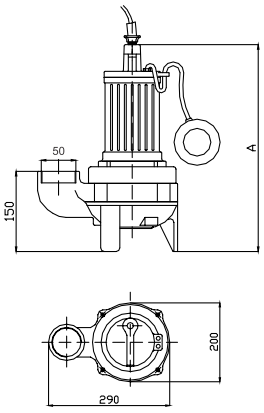
DIMENSION & WEIGHT DATA

Nr	Model - Type	A max	A3 max	E	F3	H	DN2	DN4	P3	P4	Auto coupling V	Weight (kg)
1	TGB-CV08-DM-A	410	368	77	150	290	2”	2”	250	445	50	22
1	TGB-CV08-DT	410	368	77	150	290	2”	2”	250	445	50	22
2	TGB-CV12-DMs-A	430	388	77	150	290	2”	2”	270	465	50	23.5
3	TGB-CV12-DT	430	388	77	150	290	2”	2”	270	465	50	23 5

IDENTIFICATION CODE & POWER CABLE SIZE

No	Model - Type	Power Cable		Control Cable	Pump Outlet flange type (inch)
		No. of Core	Size in Sq.mm		
1	TGB-CV08-DM-A	4	1.5	NA	THREADED 2” BSP
1	TGB-CV08-DT	4	1.5	NA	THREADED 2” BSP
2	TGB-CV12-DMs-A	4	1.5	NA	THREADED 2” BSP
3	TGB-CV12-DT	4	1.5	NA	THREADED 2” BSP

DIMENSION DRAWING



Performance curve tolerances are as per HI : 14.6 / ISO : 9906, Grade - 2B.
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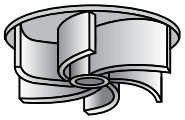
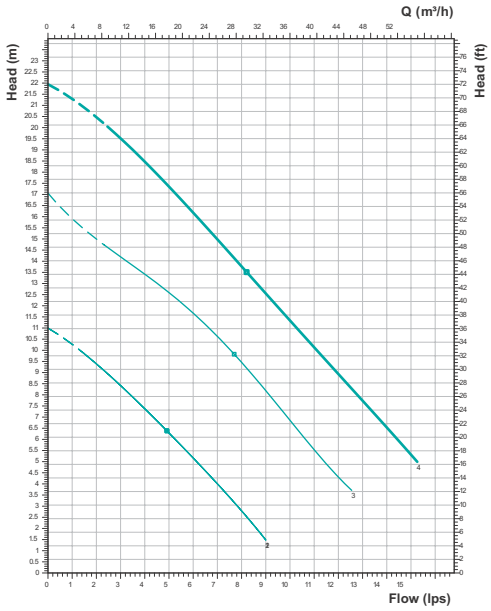
TGB Series



PERFORMANCE CURVES



PERFORMANCE TABLE

Nr	Model - Type	P1 kW	P2 kW	Volt	µF	Amp	rpm	Delivery size (mm)	Max.Solid size (mm)	l/sec	0	1	2	3	4	5	6	7	8	9	10	11	12
										m³/h	0	3.6	7.2	10.8	14.4	18	21.6	25.2	28.8	32.4	36	39.6	43.2
1	TGB-CV12-EMs-A	1.6	1.2	230	30	7.1	2850	65	55	Head in m	11	10.3	9.4	8.4	7.4	6.3	5.2	4	2.8	1.5			
1	TGB-CV12-ET	1.6	1.2	400		3.1	2850	65	55		11	10.3	9.4	8.4	7.4	6.3	5.2	4	2.8	1.5			
2	TGB-CV18-ET	2.3	1.85	400		4	2850	65	55		17.1	15.9	15	14.2	13.4	12.6	11.7	10.6	9.5	8.2	6.9	5.5	4.3
3	TGB-CV26-ET	3.3	2.6	400		5.9	2850	65	55		21.9	21.3	20.5	19.5	18.5	17.4	16.18	15	13.8	12.6	11.3	10.1	8.9

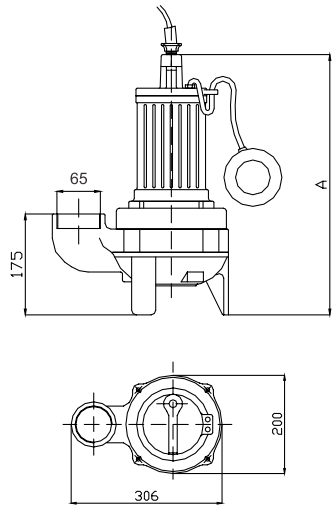
DIMENSION & WEIGHT DATA

Nr	Model - Type	A max	A3 max	E	F3	H	DN2	DN4	P3	P4	Auto coupling V	Weight (kg)
1	TGB-CV12-EMs-A	455	405	70	175	306	2"1/2	2"1/2	302	498	50*	24.5
1	TGB-CV12-ET	455	405	70	175	306	2"1/2	2"1/2	302	498	50*	24.5
2	TGB-CV18-ET	485	455	70	175	306	2"1/2	2"1/2	303	428	50*	31.5
3	TGB-CV26-ET	505	455	70	175	306	2"1/2	2"1/2	397	548	50*	38

IDENTIFICATION CODE & POWER CABLE SIZE

No	Model - Type	Power Cable		Control Cable	Pump Outlet flange type (inch)
		No. of Core	Size in Sq.mm		
1	TGB-CV12-EMs-A	4	1.5	NA	THREADED 2.5" BSP
1	TGB-CV12-ET	4	1.5	NA	THREADED 2.5" BSP
2	TGB-CV18-ET	7	1.5	NA	THREADED 2.5" BSP
3	TGB-CV26-ET	4	1.5	NA	THREADED 2.5" BSP

DIMENSION DRAWING



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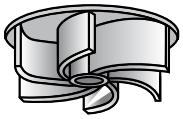
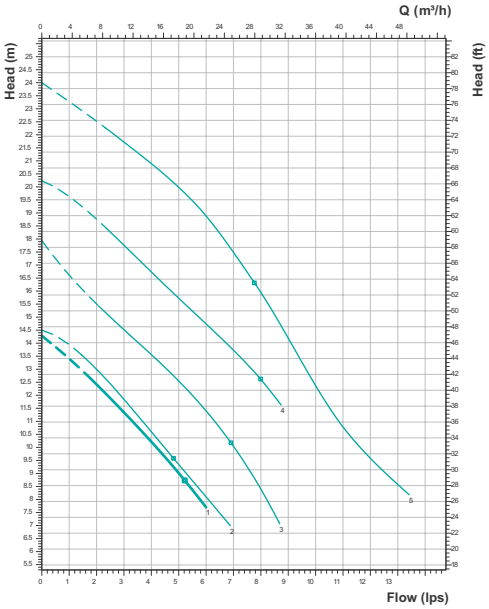
TGB Series



PERFORMANCE CURVES



PERFORMANCE TABLE

Nr	Model - Type	P1 kW	P2 kW	Volt	µF	Amp	rpm	Delivery size (mm)	Max. Solid size (mm)	l/sec	0	2	4	6	8	10	12	14	16
										m³/h	0	7.2	14.4	21.6	28.8	36	43.2	50.4	57.6
1	TGB-CV11-DMs	1.55	1.1	230	40	7.5	2850	50	40	Head in m	14.2	12.4	10.2	7.7					
2	TGB-CV11-DT	1.45	1.1	400		3	2850	50	40		14.5	13	10.6	8.1					
3	TGB-CV18-DT	2.1	1.85	400		4.4	2850	50	40		17.8	15.5	13.6	11.4	8.4				
4	TGB-CV26-DT	3.2	2.6	400		5.9	2850	50	40		20.2	18.8	16.7	14.7	12.6				
5	TGB-CV30-DT	4	3	400		7.5	2850	50	40		23.9	22.5	20.9	18.9	16	12.4	9.6		

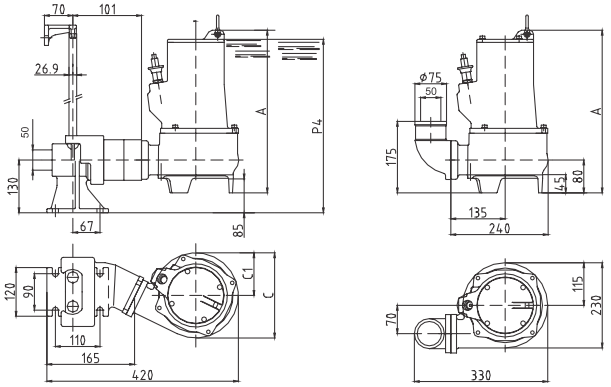
DIMENSION & WEIGHT DATA

No	Model - Type	A max	P3	P4	Auto coupling V	Weight (kg)
1	TGB-CV11-DMs	400	210	435	50	31
2	TGB-CV11-DT	440	250	475	50	30
3	TGB-CV18-DT	400	210	435	50	32
4	TGB-CV26-DT	440	225	475	50	35
5	TGB-CV30-DT	465	230	500	50	45

IDENTIFICATION CODE & POWER CABLE SIZE

No	Model - Type	Power Cable		Control Cable	Auto coupling Model	Auto coupling Code	Base Frame Model	Pump Outlet flange code	Pump Outlet flange type (inch)
		No. of Core	Size in Sq.mm						
1	TGB-CV11-DMs	4	1.5	NA	V50	146296	NA	NA	SQUARE FLANGE 2"
2	TGB-CV11-DT	4	1.5	NA	V50	146296	NA	NA	SQUARE FLANGE 2"
3	TGB-CV18-DT	4	1.5	NA	V50	146296	NA	NA	SQUARE FLANGE 2"
4	TGB-CV26-DT	4	1.5	NA	V50	146296	NA	NA	SQUARE FLANGE 2"
5	TGB-CV30-DT	4	1.5	NA	V50	146296	NA	NA	SQUARE FLANGE 2"

DIMENSION DRAWING



Performance curve tolerances are as per HI : 14.6 / ISO : 9906, Grade - 2B.
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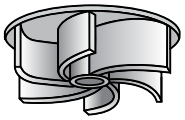
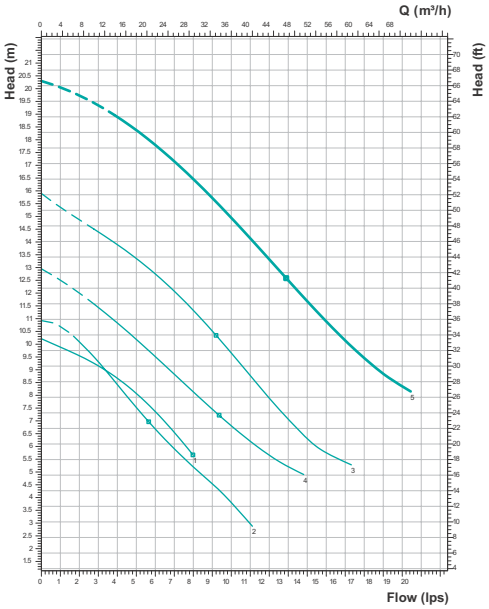
TGB Series



PERFORMANCE CURVES



PERFORMANCE TABLE

Nr	Model - Type	P1 kW	P2 kW	Volt	Amp	rpm	Delivery size (mm)	Max. Solid size (mm)	l/sec	0	2	4	6	8	10	12	14	16	18	20
									m³/h	0	7	14	21.6	28.8	36	43.2	50.4	57.6	64.8	72
1	GB-CV11-ET-R	1.5	1.1	400	3	2850	65	50	Head in m	10.2	9.6	8.7	7.4	5.7						
2	GB-CV18-ET-R	2.3	1.85	400	4	2850	65	50		10.9	10.1	8.4	6.7	5.2	3.8					
3	GB-CV26-ET-RR	3.2	2.6	400	5.8	2850	65	50		15.9	14.9	13.9	12.8	11.3	9.7	7.9	6.3	5.3		
4	GB-CV18-ET-RR	2.3	1.8	400	4	2850	65	50		12.9	12.0	10.8	9.5	8.1	6.8	5.7				
5	GB-CV40-ET-R	4.8	4	400	9	2850	65	50		20.3	19.7	18.9	17.8	16.5	14.9	13.3	11.7	10.1	8.8	

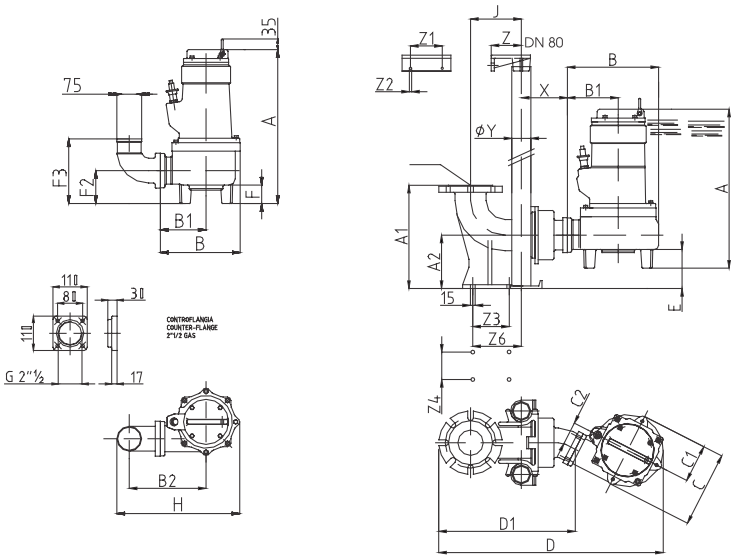
DIMENSION & WEIGHT DATA

Nr	Model - Type	A max	A1	A2	B	B1	B2	C	C1	C2	D	D1	E	H	J	X	Y	Z	Z1	Z3	Z4	Z6	DN3	P3	P4	Auto coupling V	Weight (kg)
1	TGB-CV18-ET-RR	475	300	160	250	154	255	220	110	55	635	355	56	400	134	130	42.4	84	100	90	100	140	65	320	510	65	33
2	TGB-CV40-ET-R	505	325	168	270	148	258	240	120	72	707	430	64	425	160	145	60.3	95	150	120	120	175	80	345	555	80	51

IDENTIFICATION CODE & POWER CABLE SIZE

No	Model - Type	Power Cable		Control Cable	Auto coupling Model	Auto coupling Code	Base Frame Model	Pump outlet flange code	Pump Outlet flange type (inch)
		No. of Core	Size in Sq.mm						
1	TGB-CV11-ET-R	4	1.5	NA	V65	121058	NA	NA	SQUARE FLANGE 2½"
2	TGB-CV18-ET-R	4	1.5	NA	V80	121060	NA	NA	SQUARE FLANGE 2½"
3	TGB-CV26-ET-RR	4	1.5	NA	V80	121060	NA	NA	SQUARE FLANGE 2½"
4	TGB-CV18-ET-RR	4	1.5	NA	V65	121058	NA	NA	SQUARE FLANGE 2½"
5	TGB-CV40-ET-R	4	1.5	NA	V80	121060	NA	NA	SQUARE FLANGE 2½"

DIMENSION DRAWING



Performance curve tolerances are as per HI : 14.6 / ISO : 9906, Grade - 2B.
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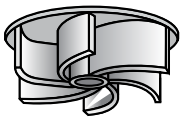
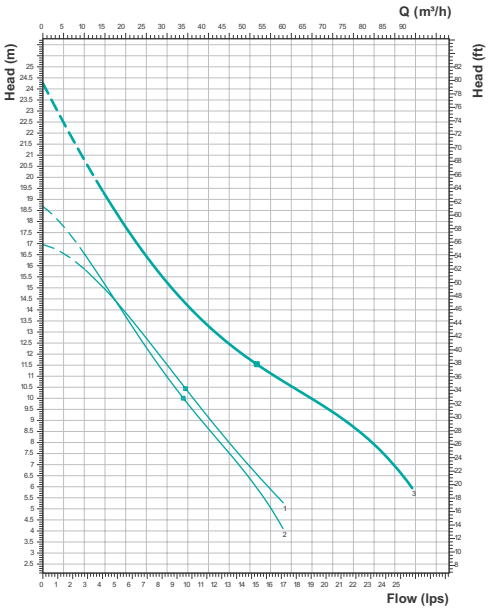
TGB Series



PERFORMANCE CURVES



PERFORMANCE TABLE

Nr	Model - Type	P1 kW	P2 kW	Volt	Amp	rpm	Delivery size (mm)	Max.Solid size (mm)	l/sec	0	2	4	6	8	10	12	14	16	18	20	22	24
									m³/h	0	7	14	21.6	28.8	36	43.2	50.4	57.6	64.8	72	79.2	86.4
1	TGB-CV26-ET-R	3.2	2.6	400	5.8	2850	65	55	Head in mm	17	16.3	15.1	13.5	11.8	10.1	8.4	6.8	5.4				
2	TGB-CV40-ET	4.9	4	400	9	2850	65	55		18.7	17.2	15.3	13.3	11.7	9.7	7.3	6.6	4.2				
3	TGB-CV55-ED-R	1.5	5.5	400	12	2850	65	65		24.3	21.7	19.4	17.3	15.5	14.0	12.7	11.7	10.8	10.0	9.1	8.1	6.6

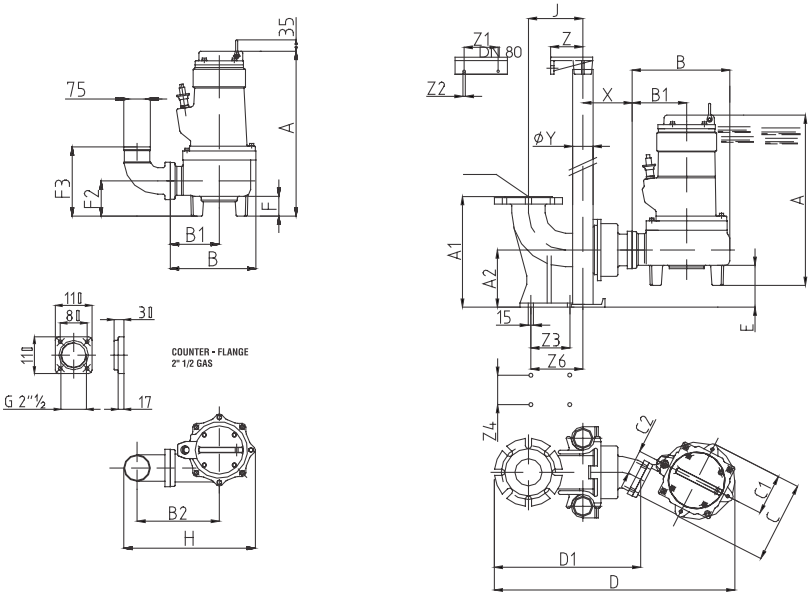
DIMENSION & WEIGHT DATA

Nr	Model - Type	A max	A1	A2	B	B1	B2	C	C1	C2	D	D1	E	F	F2	F3	H	J	X	Y	Z	Z1	Z2	Z3	Z4	Z6	DN3	P3	P4	Auto coupling V	Weight (kg)
1	TGB-CV26-ET-R	485	300	160	250	145	242	220	110	55	635	355	56	59	105	205	400	134	130	42,4	84	100	14	90	100	140	65	310	525	65	40
2	TGB-CV40-ET	505	325	168	270	148	258	240	220	72	707	430	64	59	105	205	425	160	145		95	150	14	120	120	175	80	345	555	80	51

IDENTIFICATION CODE & POWER CABLE SIZE

No	Model - Type	Power Cable		Control Cable	Auto coupling Model	Auto coupling Code	Base Frame Model	Pump Outlet flange type (inch)
		No. of Core	Size in Sq.mm					
1	TGB-CV26-ET-R	4	1.5	NA	V65	121058	NA	SQUARE FLANGE 2½"
2	TGB-CV40-ET	4	1.5	NA	V80	121060	NA	SQUARE FLANGE 2½"
3	TGB-CV55-ED-R	4	1.5	NA	V80	121060	NA	SQUARE FLANGE 2½"

DIMENSION DRAWING



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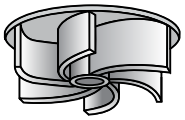
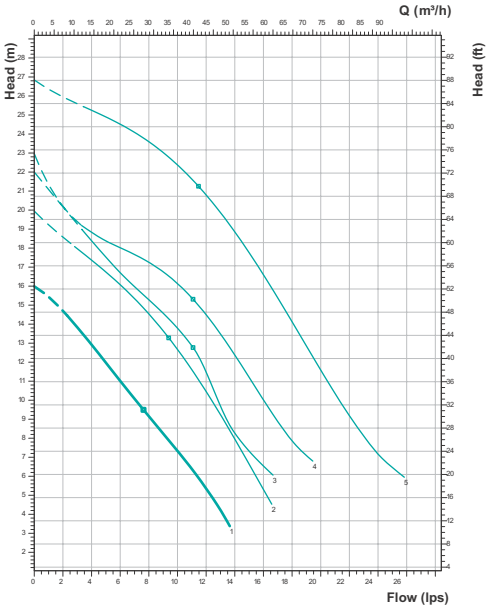
TGB Series



PERFORMANCE CURVES



PERFORMANCE TABLE

Nr	Model - Type	P1 kW	P2 kW	Volt	Amp	rpm	Delivery size (mm)	Max.Solid size (mm)	l/sec	0	3	6	9	12	15	18	21	22
									m³/h	0	10.8	21.6	32.4	43.2	54	64.8	75.6	79.2
1	TGB-CV18-FT-R	2.3	1.85	400	4	2850	80	50	Head in m	16	13.8	11	8.2	5.4				
2	TGB-CV26-FT-R	3.3	2.6	400	5.8	2850	80	50		19.9	18	16.1	13.7	10.5	6.6			
3	TGB-CV30-FT-R	3.7	3	400	6.1	2850	80	50		22	19.3	16.7	14.6	11.5	7.3			
4	TGB-CV40-FT-R	4.9	4	400	9	2850	80	50		23	19.3	18.1	17.2	13.9	11.3	8.3		
5	TGB-CV55-FD-RR*	6.8	5.5	400	12	2850	80	50		26.8	25.6	24.5	23	20.8	17.8	14.1	10.4	9.2

* Inbuilt with Top

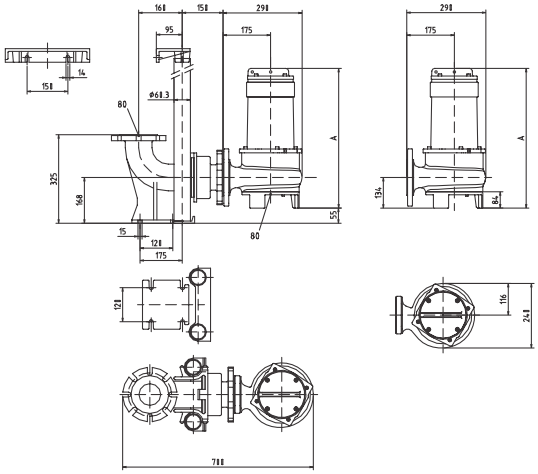
DIMENSION & WEIGHT DATA

Nr	Model - Type	A max	Auto coupling V	Weight (kg)
1	TGB-CV18-FT-R	507	80N	42
2	TGB-CV26-FT-R	507	80N	44
3	TGB-CV30-FT-R	513	80N	45
4	TGB-CV40-FT-R	513	80N	49
5	TGB-CV55-FD-RR	563	80N	57

IDENTIFICATION CODE & POWER CABLE SIZE

No	Model - Type	Power Cable		Control Cable	Auto coupling Model	Auto coupling Code	Base Frame Model	Pump Outlet flange type (inch)
		No. of Core	Size in Sq.mm					
1	TGB-CV18-FT-R	4	1.5	NA	V80N	121059	NA	SEMI CIRCLE FLANGE 3"
2	TGB-CV26-FT-R	4	1.5	NA	V80N	121059	NA	SEMI CIRCLE FLANGE 3"
3	TGB-CV30-FT-R	4	1.5	NA	V80N	121059	NA	SEMI CIRCLE FLANGE 3"
4	TGB-CV40-FT-R	4	1.5	NA	V80N	121059	NA	SEMI CIRCLE FLANGE 3"
5	TGB-CV55-FD-RR	12	1.5	NA	V80N	121059	NA	SEMI CIRCLE FLANGE 3"

DIMENSION DRAWING



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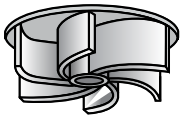
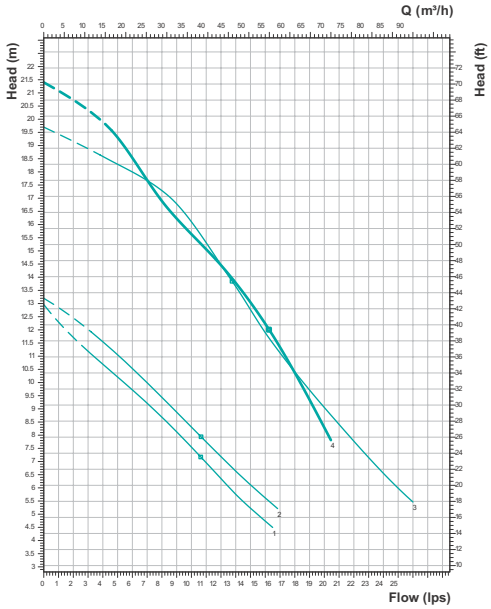


PERFORMANCE CURVES



PERFORMANCE TABLE

Nr	Model - Type	P1 kW	P2 kW	Volt	µF	Amp	rpm	Delivery size (mm)	Max.Solid size (mm)	l/sec	0	2	4	6	8	10	12	14	16	18
										m³/h	0	7.2	14.4	21.6	28.8	36	43.2	50.4	57.6	64.8
1	TGB-CV18-FT	1.5	1.2	230	30	7	2850	80	70	Head in m	13.0	11.71	10.7	9.7	8.7	7.5	6.4	5.2		
2	TGB-CV26-FT	3.2	2.6	400		5.5	2850	80	70		13.2	12.5	11.6	10.5	9.4	8.3	7.2	6.1	4.5	
3	TGB-CV40-FT	5	4	400		8.9	2850	80	70		19.7	19.2	18.6	18	17.3	16.1	14.5	12.8	11.1	9.7
4	TGB-CV55-FD*	7	5.5	400		12	2850	80	70		21.4	20.7	19.9	18.5	16.9	15.6	14.5	13.0	11.3	9.3

* Inbuilt with Top

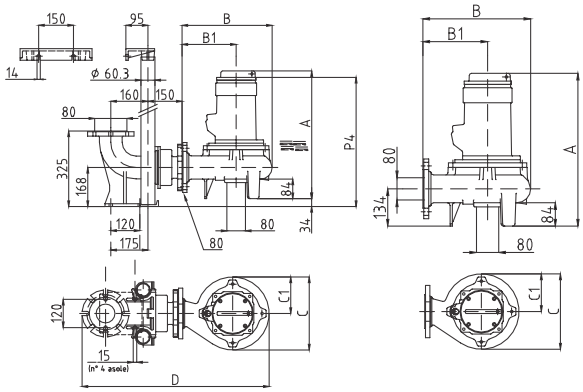
DIMENSION & WEIGHT DATA

Nr	Model - Type	A max	B	B1	C	C1	D	P4	Auto coupling V	Weight (kg)
1	TGB-CV18-FT	490	280	180	212	106	690	546	80N	25
2	TGB-CV26-FT	540	280	180	212	108	690	596	80N	62
3	TGB-CV40-FT	560	385	230	310	155	795	616	80N	68
4	TGB-CV55-FD*	610	385	230	310	155	795	666	80N	70

IDENTIFICATION CODE & POWER CABLE SIZE

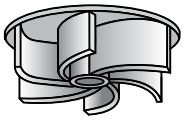
No	Model - Type	Power Cable		Control Cable	Auto coupling Model	Auto coupling Code	Base Frame Model	Pump outlet flange code	Pump Outlet flange type (inch)
		No. of Core	Size in Sq.mm						
1	TGB-CV18-FT	4	1.5	NA	V80N	121059	NA	NA	ROUND FLANGE 3
2	TGB-CV26-FT	4	1.5	NA	V80N	121059	NA	NA	ROUND FLANGE 3"
3	TGB-CV40-FT	4	1.5	NA	V80N	121059	NA	NA	ROUND FLANGE 3"
4	TGB-CV55-FD*	12	1.5	NA	V80N	121059	NA	NA	ROUND FLANGE 3

DIMENSION DRAWING

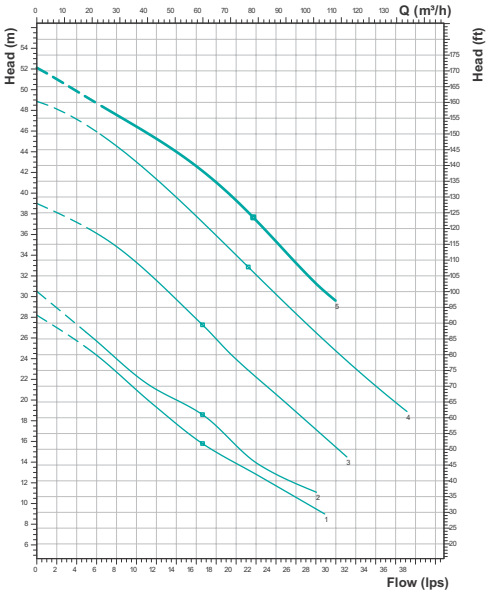


Performance curve tolerances are as per HI : 14.6 / ISO : 9906, Grade - 2B.
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

TGB Series



PERFORMANCE CURVES



PERFORMANCE TABLE

Nr	Model - Type	P1 kW	P2 kW	Volt	Amp	rpm	Delivery size (mm)	Max.Solid size (mm)	l/sec	0	4	8	12	16	20	24	28	32	36
									m³/h	0	14	29	43.2	57.6	72	86.4	100.8	115.2	129.6
1	TGB-CV75-FD*	9.3	7.5	400	16	2850	80	70	Head in m	28.2	25.7	22.7	19.3	16.2	13.9	11.7	9.5		
2	TGB-CV95-FD*#	10.8	9.5	400	19	2850	80	70		30.5	27.3	24.0	21.0	19.0	15.6	12.8	11.1		
3	TGB-CV110-FD*#	13.5	11	400	22	2850	80	70		39.0	37.2	34.8	31.6	27.9	23.9	20.6	17.2		
4	TGB-CV190-FD*#	22	19	400	37	2850	80	70		48.9	47.1	44.6	41.4	37.8	34.0	30.2	26.5	23.0	19.8
5	TGB-CV240-FD*#	27 5	24	400	46	2850	80	70		52.1	49.9	47.6	45.3	42.6	39.3	35.3	31.3		

* Inbuilt with TOP # Moisture sensor available

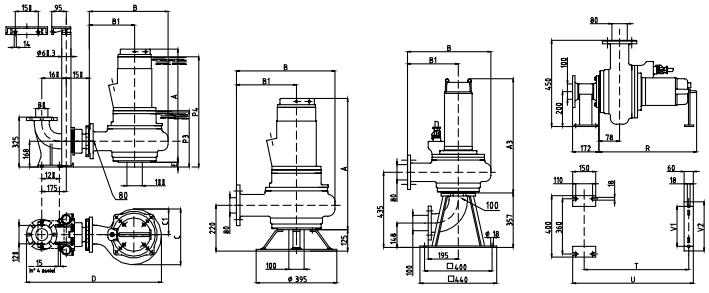
DIMENSION & WEIGHT DATA

Nr	Model - Type	A max	A3 max	B	B1	C	C1	D	E	P2	P4	R max	T max	U max	V1	V2	Auto coupling V	Weight (kg)
1	TGB-CV75-FD*	643	775	365	220	312	147	780	71	420	700	740	738	843	260	320	80N	118
2	TGB-CV95-FD*#	690	775	365	220	312	147	780	71	420	745	740	738	843	260	320	80N	147
3	TGB-CV110-FD*#	690	775	365	220	312	147	780	71	420	745	740	738	843	260	320	80N	148
4	TGB-CV190-FD-R*#	765	945	365	220	312	147	780	71	420	820	1050	1075	1180	310	370	80N	170
5	TGB-CV190-FD*#	945	945	410	252	316	158	820	90	450	960	1050	1075	1180	310	370	80N	176
6	TGB-CV240-FD*#	1035	1035	410	252	316	158	820	90	450	1050	1050	1075	1180	310	370	80N	206

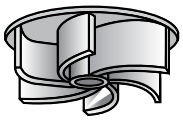
IDENTIFICATION CODE & POWER CABLE SIZE

No	Model - Type	Power Cable		Control Cable	Auto coupling Model	Auto coupling Code	Base Frame Model	Base Frame Code	Pump Outlet flange type (inch)
		No. of Core	Size in Sq.mm						
1	TGB-CV75-FD*	12	1.5	NA	V80N	121059	NA	NA	ROUND FLANGE 3"
2	TGB-CV95-FD*#	7	2.5	NA	V80N	121059	NA	NA	ROUND FLANGE 3"
3	TGB-CV110-FD*#	7	2.5	NA	V80N	121059	NA	NA	ROUND FLANGE 3"
4	TGB-CV190-FD-R*#	4	4	NA	V80N	121059	180 MS	117184	ROUND FLANGE 3"
5	TGB-CV190-FD*#	4	4	NA	V80N	121059	180 MS	117184	ROUND FLANGE 3"
6	TGB-CV240-FD*#	4	6	NA	V80N	121059	180 MS	117184	ROUND FLANGE 3"

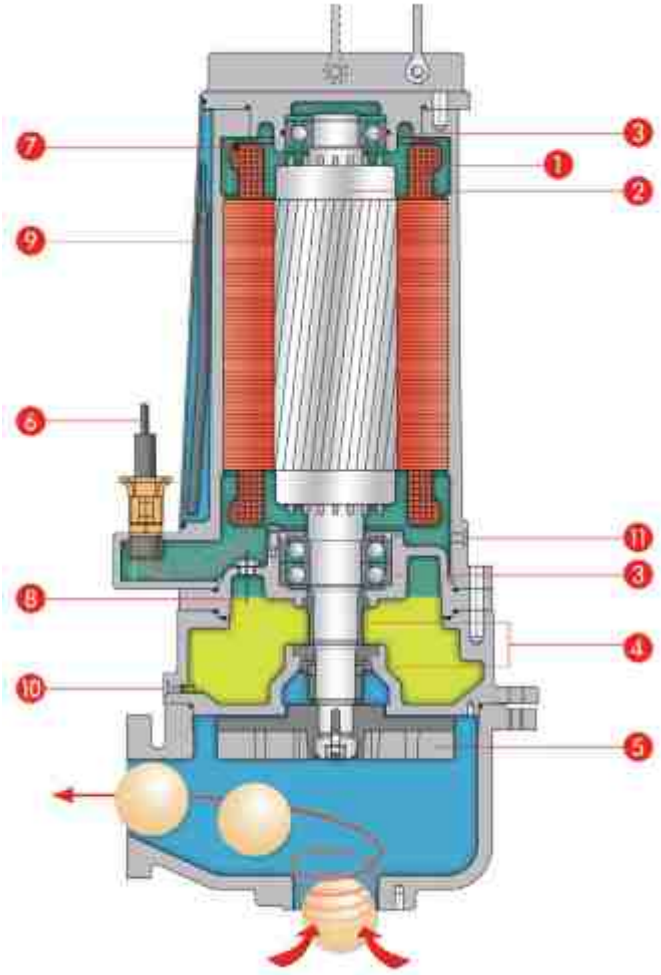
DIMENSION DRAWING



Performance curve tolerances are as per HI : 14.6 / ISO : 9906, Grade - 2B.
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.



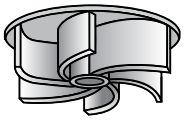
Cross Section Drawing



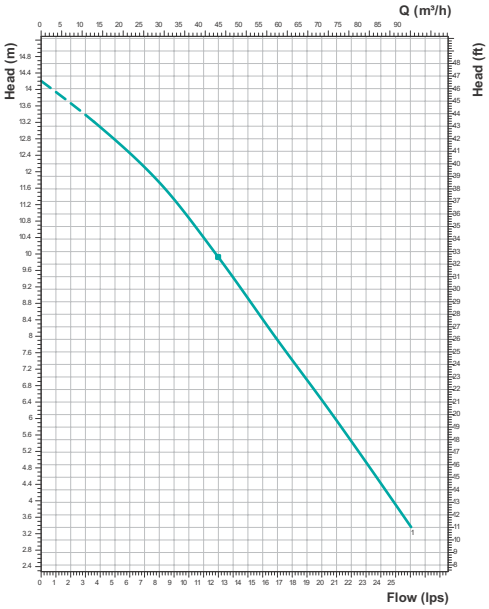
1. Fully submersible pressure tight electric motor
2. Rotor Shaft
3. Bearings
4. Mechanical seal
5. Vortex Impeller
6. Cable
7. Thermal over load protector
8. Oil chamber probe (optional)
9. Cooling jacket
10. Oil inspection plug
11. Air plug hole for the motor water tightness control

* The above diagram is only for illustration purpose the actual construction of the product may vary according to the model.

TGB Series



PERFORMANCE CURVES



PERFORMANCE TABLE

Nr	Model - Type	P1 kW	P2 kW	Volt	Amp	rpm	Delivery size (mm)	Max.Solid size (mm)	l/sec	0	4	8	12	16	20	24	28
									m³/h	0	14.4	28.8	43.2	57.6	72	86.4	100.8
1	TGB-CV35-ET-4*	4.5	3.5	400	8	1450	67	55	H m	14.2	13.1	11.7	9.9	7.9	6.0	3.9	

* Inbuilt with Top

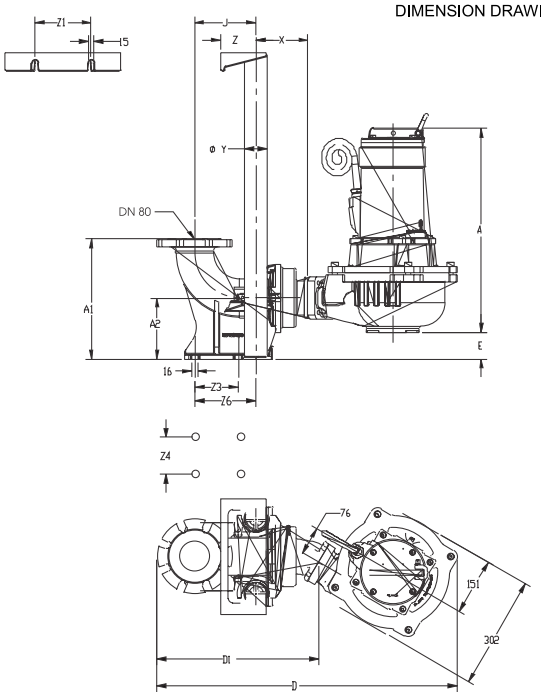
DIMENSION & WEIGHT DATA

Nr	Model - Type	A max	A1	A2	D	D1	E	j	X	y	Z	Z1	Z3	Z4	Z6	Auto coupling V	Weight (kg)
1	TGB-CV35-ET-4	547	300	160	732	361	68	130	139	42.4	84	100	90	100	137	65	78

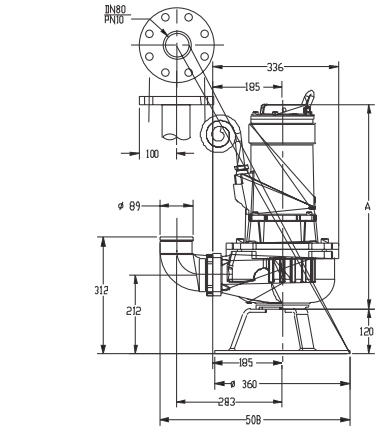
IDENTIFICATION CODE & POWER CABLE SIZE

No	Model - Type	Power Cable		Control Cable	Auto coupling Model	Auto coupling Code	Base Frame Model	Base Frame Code	Pump outlet flange code	Pump Outlet flange type (inch)
		No. of Core	Size in Sq.mm							
1	TGB-CV35-ET-4	7	1.5	NA	V80	121060	112 MS	117181	117842	SQUARE FLANGE 2½"

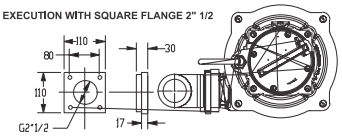
DIMENSION DRAWING



DIMENSION DRAWING



EXECUTION WITH SQUARE FLANGE 2" 1/2



Performance curve tolerances are as per HI : 14.6 / ISO : 9906, Grade - 2B.
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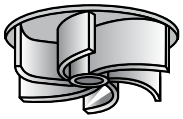
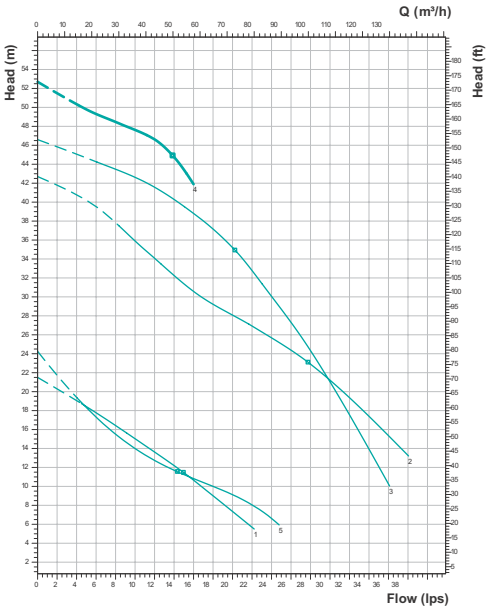


PERFORMANCE CURVES



PERFORMANCE TABLE

Nr	Model - Type	P1 kW	P2 kW	Volt	Amp	rpm	Delivery size (mm)	Max.Solid size (mm)	l/sec	0	4	8	12	16	20	24	28	32	36
									m³/h	0	14.4	28.8	43.2	57.6	72	86.4	100.8	115.2	129.6
1	TGB-CV55-ED *#	6.8	5.5	400	12	2850	67	57	Head in mm	21.5	19.1	16.4	13.6	10.7	7.4				
2	TGB-CV110-ED *#	12.5	11	400	22	2850	67	57		41.5	39.3	36.5	33.3	29.9	26.3	22.5			
3	TGB-CV150-ED *#	16.5	15	400	30	2850	67	57		46.6	45.1	43.5	41.6	38.8	35.2	30.1	18.8	15.1	11.4
4	TGB-CV185-ED *#	20.8	18.5	400	32	2850	67	57		52.7	50.3	48.5	46.6	41.9					

* Inbuilt with TOP / # Moisture sensor available

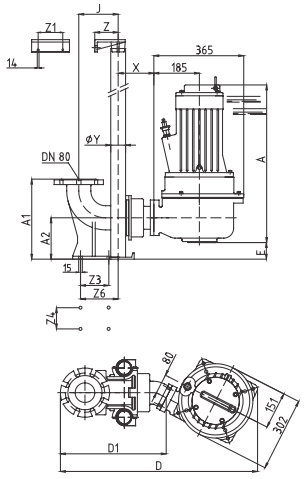
DIMENSION & WEIGHT DATA

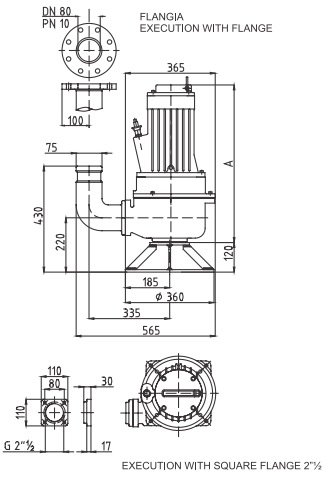
Nr	Model - Type	A max	Auto coupling V	Weight (kg)
1	TGB-CV55-ED	596	80	84
2	TGB-CV75-ED	612	80	121
3	TGB-CV110-ED	658	80	131
4	TGB-CV150-ED	734	80	157
5	TGB-CV185-ED	734	80	161

IDENTIFICATION CODE & POWER CABLE SIZE

No	Model - Type	Power Cable		Control Cable		Auto coupling Model	Auto coupling Code	Base Frame Model	Base Frame Code	Pump outlet flange code	Pump Outlet flange type (inch)
		No. of Core	Size in Sq.mm	No. of Core	Size in Sq.mm						
1	TGB-CV55-ED	12	1.5	NA	NA	V80	121060	112 MS	117181	117842	SQUARE FLANGE 2½"
2	TGB-CV75-ED	12	1.5	NA	NA	V80	121060	112 MS	117181	117842	SQUARE FLANGE 2½"
3	TGB-CV110-ED	7	2.5	NA	NA	V80	121060	112 MS	117181	117842	SQUARE FLANGE 2½"
4	TGB-CV150-ED	4	4	4	1.5	V80	121060	112 MS	117181	117842	SQUARE FLANGE 2½"
5	TGB-CV185-ED	4	4	4	1.5	V80	121060	112 MS	117181	117842	SQUARE FLANGE 2½"

DIMENSION DRAWING





Performance curve tolerances are as per HI : 14.6 / ISO : 9906, Grade - 2B.
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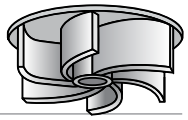
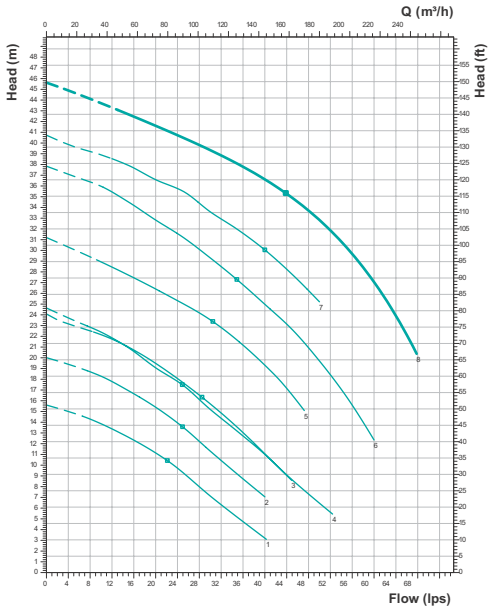
TGB Series



PERFORMANCE CURVES



PERFORMANCE TABLE

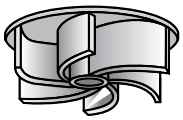
Nr	Model - Type	P1 kW	P2 kW	Volt	Amp	rpm	Delivery size (mm)	Max.Solid size (mm)	l/sec	0	5	15	25	30	35	40	45	50	55	60	65	70	75
									m³/h	0	18	54	90	108	126	144	162	180	198	216	234	252	270
1	TGB-CV60-GD-4	7	6	400	13.8	1450	100	90	Head in m	15.6	14.8	12.6	9.3	7.13	5.1								
2	TGB-CV75-GD-4 *#	9	7.5	400	16	1450	100	90		20	19.2	16.9	13.5	11.3	9.2	7.1							
3	TGB-CV110-GD-4 *#	12·5	11	400	22	1450	100	90		24.1	22.9	21	17.7	15.7	13.5	11.1							
4	TGB-CV140-GD-4 *#	17	14	400	30	1450	100	90		24.6	23.4	20.9	175	15.2	13.1	11.0	8.6	6.5					
5	TGB-CV170-GD-4 *#	21·5	17	400	35	1450	100	90		31.2	29.8	27.7	25.1	23.5	21.6	19.3	16.5						
8	TGB-CV260-GD-4 *#	30	26	400	50	1450	100	90		37.8	36.9	34.5	31.2	29.3	27.2	25	22.6	19.7	16.3	12.4			
6	TGB-CV340-GD-4 *#	39	34	400	68	1450	100	90		40.7	39.7	39.7	35.5	33.6	32	30	27.8	25.2	23	20			
7	TGB-CV480-GD-4 *#	54.5	48	400	88	1450	100	90		45.6	44.7	42.7	40.5	39.3	38.1	36.6	34.9	32.8	30.3	27.1	23.0		

* Inbuilt with TOP / # Moisture sensor available.

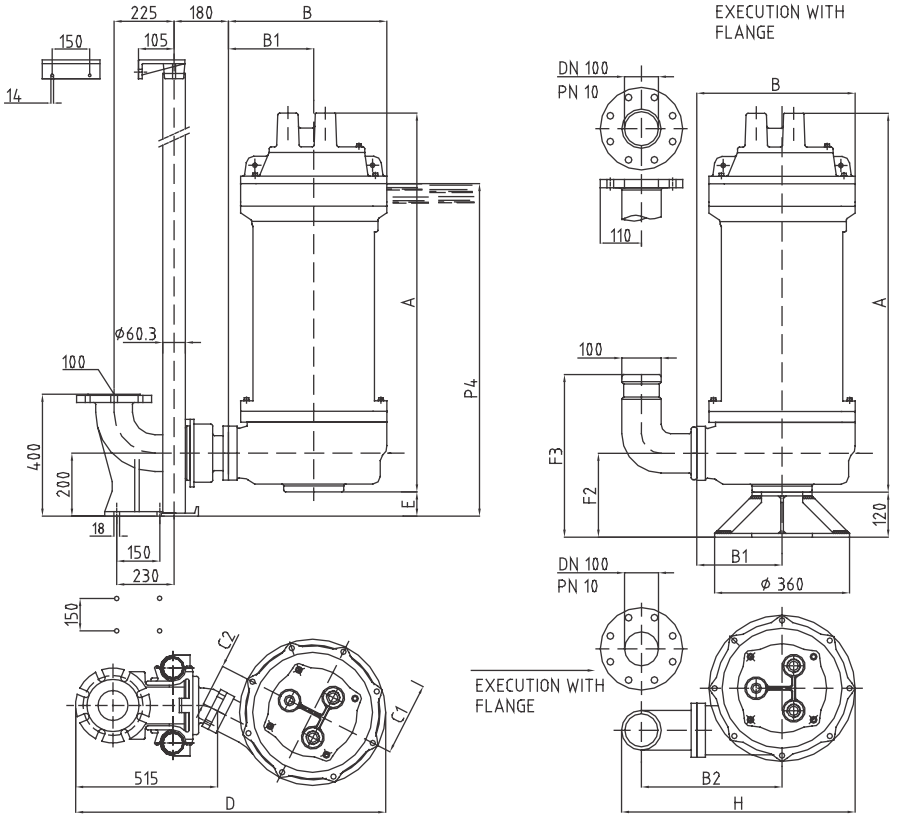
IDENTIFICATION CODE & POWER CABLE SIZE

No	Model - Type	Power Cable		Control Cable		Auto coupling Model	Auto coupling Code	Base Frame Model	Base Frame Code	Pump outlet flange code	Pump Outlet flange type (inch)
		No. of Core	Size in Sq.mm	No. of Core	Size in Sq.mm						
1	TGB-CV60-GD-4	12	1.5	NA	1.5	V100	121062	138 MS	117184	249087	SQUARE FLANGE 4”
2	TGB-CV75-GD-4	7	2.5	4	1.5	V100	121062	138 MS	117184	249087	SQUARE FLANGE 4”
3	TGB-CV110-GD-4	7	4	4	1.5	V100	121062	138 MS	117184	249087	SQUARE FLANGE 4”
4	TGB-CV140-GD-4	4	4	4	1.5	V100	121062	180 MS	117184	249087	SQUARE FLANGE 4”
5	TGB-CV170-GD-4	4	6	4	1.5	V100	121062	180 MS	117184	249087	SQUARE FLANGE 4”
8	TGB-CV220-GD-4	4	6	4	1.5	V100	121062	180 MS	117184	249087	SQUARE FLANGE 4”
6	TGB-CV340-GD-4	4	10	4	1.5	V100	121062	180 MS	117184	249087	SQUARE FLANGE 4”
7	TGB-CV480-GD-4	4	10	4	1.5	V100	121062	180 MS	117184	249087	SQUARE FLANGE 4”

Performance curve tolerances are as per HI : 14.6 / ISO : 9906, Grade - 2B.
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.



DIMENSION DRAWINGS



DIMENSION & WEIGHT DATA																
Nr	Model - Type	A max	B	B1	B2	C	C1	C2	D	E	F3	F2	H	P4	Auto coupling V	Weight (kg)
1	TGB-CV75-GD-4	643	412	225	375	374	196	135	951	96	434	224	605	695	100	126
2	TGB-CV110-GD-4	689	412	225	375	374	196	135	951	96	434	218	605	735	100	144
3	TGB-CV140-GD-4	795	541	290	440	502	251	191	1103	92	425	230	750	837	100	184
4	TGB-CV170-GD-4	795	541	290	440	502	251	191	1103	92	425	230	750	837	100	200
5	TGB-CV220-GD-4	828	541	290	440	502	251	191	1103	92	425	230	750	864	100	230
8	TGB-CV260-GD-4	828	541	290	440	502	251	191	1103	92	425	215	750	864	100	251
6	TGB-CV340-GD-4	1172	541	290	440	502	251	191	1103	92	425	230	750	1078	100	442
7	TGB-CV480-GD-4	1201	598	290	440	502	251	191	1111	92	425	230	750	1176	100	490

Performance curve tolerances are as per HI : 14.6 / ISO : 9906, Grade - 2B.
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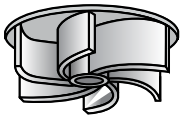
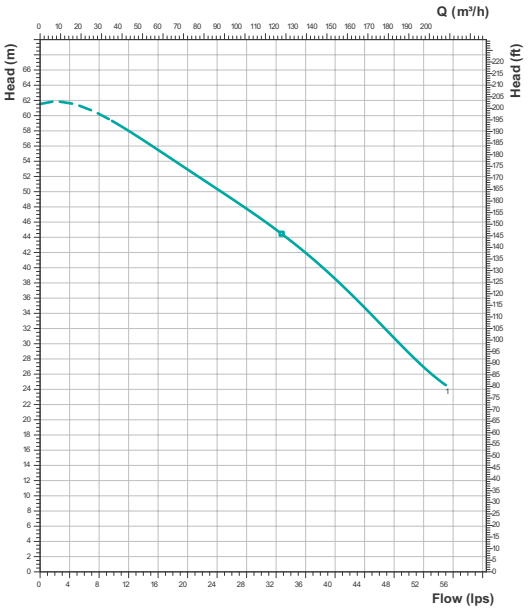
TGB Series



PERFORMANCE CURVES

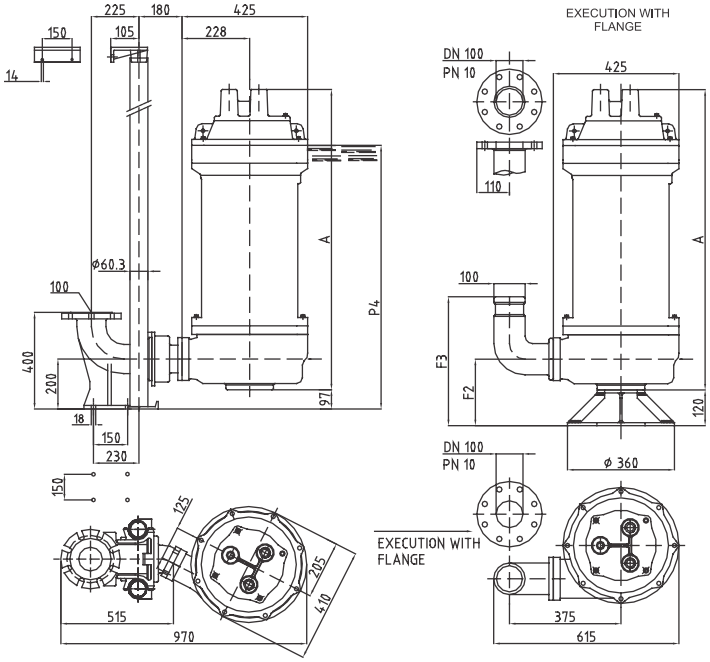


PERFORMANCE TABLE																		
Nr	Model - Type	P1 kW	P2 kW	Volt	Amp	rpm	Delivery size (mm)	Max. Solid size (mm)	l/sec	0	5	15	25	30	35	40	45	50	55
									m³/h	0	18	54	90	108	126	144	162	180	198
1	TGB-CV370-GD *#	29	25	400	44	2850	100	90	Head in m	54.5	53.6	48.6	41.6	37.6	33.2	28.6	24.2	20.2	16.7

* Inbuilt with TOP / # Moisture sensor available.

IDENTIFICATION CODE & POWER CABLE SIZE											
No	Model - Type	Power Cable		Control Cable		Auto coupling Model	Auto coupling Code	Base Frame Model	Base Frame Code	Pump outlet flange code	Pump Outlet flange type (inch)
		No. of Core	Size in Sq.mm	No. of Core	Size in Sq.mm						
1	TGB-CV370-GD	4	10	4	1.5	V100	121062	138 MS	117183	249087	SQUARE FLANGE 4"

DIMENSION DRAWING



Performance curve tolerances are as per HI : 14.6 / ISO : 9906, Grade - 2B.
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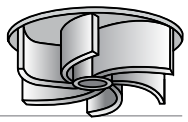
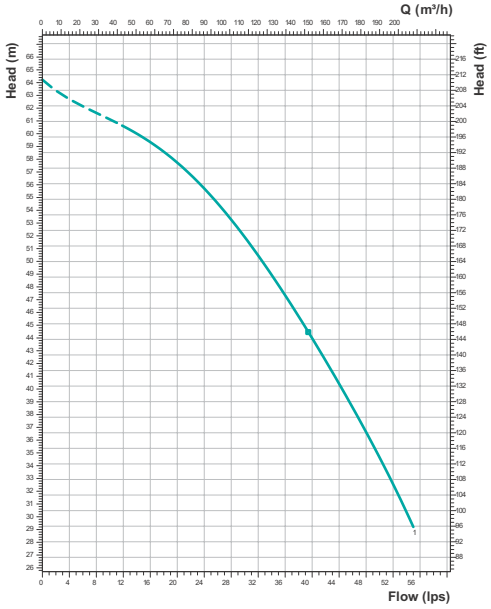


PERFORMANCE CURVES

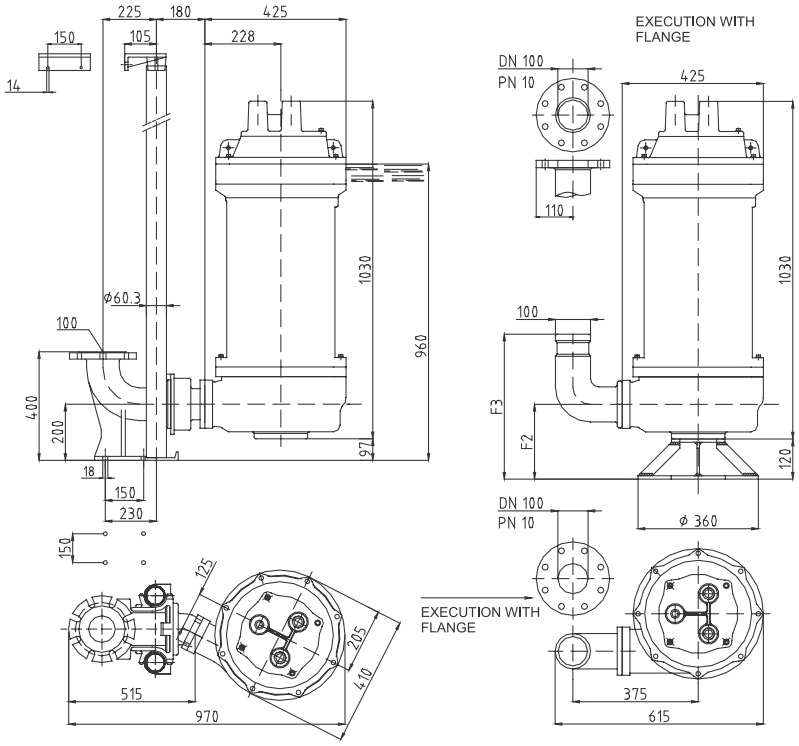


PERFORMANCE TABLE																					
Nr	Model - Type	P1 kW	P2 kW	Volt	Amp	rpm	Delivery size (mm)	Max.Solid size (mm)	l/sec	0	5	15	25	30	35	40	45	50	55	60
									m³/h	0	18	54	90	108	126	144	162	180	198	216
1	TGB-CV500-GD *#	55	50	400	89	2850	100	80	H m	64.2	62.4	59.7	55.1	51.9	48.1	44	39.5	34.6	29.2	

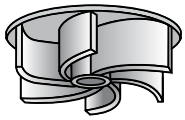
* Inbuilt with TOP / # Moisture sensor available

IDENTIFICATION CODE & POWER CABLE SIZE										
No	Model - Type	Power Cable		Control Cable		Auto coupling Model	Auto coupling Code	Base Frame Model	Base Frame Code	Pump outlet flange code	Pump Outlet flange type (inch)
		No. of Core	Size in Sq.mm	No. of Core	Size in Sq.mm						
1	TGB-CV500-GD	4	10	4	1.5	V100	121062	138 MS	117183	249087	SQUARE FLANGE 4"

DIMENSION DRAWING



Performance curve tolerances are as per HI : 14.6 / ISO : 9906, Grade - 2B.
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.



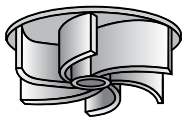
TGA Series

TGA series pumps are equipped with vortex impeller. The benefit of a vortex impeller over a channel impeller is the minimised risk of clogging. A Vortex impeller is also a better choice when the pumped liquid has a high content of sand. TGA Series pumps have large free passage upto 3" in diameter suitable for lifting of sewage liquids, civil waste and industrial waste water containing solids and viscous materials, heavy muds or fermented sludge.

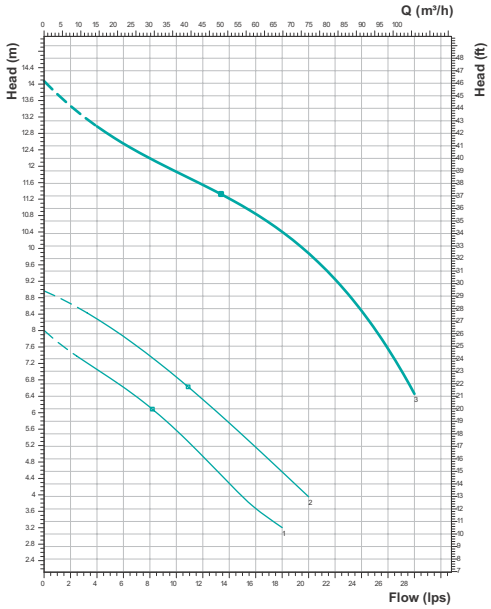
Operating parameters	
Max Flow	upto 115.2 m³/hr
Max Head	upto 13.4 m
Impeller Type	Vortex - Staright Vane
Outlet Size	50 - 100 mm
Max Solid Size	upto 80 mm
Maximum Liquid Temperature	upto 40°C
Service	S1 Duty
No. of Starts / Per Hour	20
Max. immersion depth	20m
pH range	6 to 12
Liquid Viscosity	1 mm²/s
Liquid Density	1kg/dm³
Max. Noise level	≤ 70dB

Specifications	
Power Range	1.3 to 5.5kW
Power Supply	380-415V - Three Phase, 50Hz, AC.
Ingress Protection	IP68
Motor	Dry Type Induction motor
Speed	1450 rpm
Class of Insulation	H
Moisture sensor	# Available
Thermal Overload Protector	* Available
Starting Method	Three Phase - DOL & SD
Shaft Seal	Double Mechanical seal
Mechanical Seal Face Combination	Motor Side : Graphite / Alumina Pump Side : Silicon Carbide / Silicon Carbide
Bearing Type	Shielded prelubricated bearing
Cable Type	HO7RNF
Standard Cable Length	10m

Material of Construction	
Casing	Cast iron EN-GJL-260
Impeller	Cast iron EN-GJL-260
Motor Housing	Cast iron EN-GJL-260
Shaft	Stainless Steel X30 Cr13 (AISI 420)
Fasteners	Stainless Steel A2 (AISI 304)



PERFORMANCE CURVES



PERFORMANCE TABLE

Nr	Model - Type	P1 kW	P2 kW	Volt	Amp	rpm	Delivery size (mm)	Max.Solid size (mm)	l/sec	0	2	4	6	8	10	12	14	16	18	20	22	24	26	28
									m³/h	0	7	14	21.6	28.8	36	43.2	50.4	57.6	64.8	72	79.2	86.4	93.6	100.8
1	TGA-CV15-ET-4*	1.9	1.5	400	4	1450	65	55		8	7.5	7.1	6.6	6.1	5.6	4.9	4.3	3.7	3.2					
2	TGA-CV22-ET-4	2.9	2.2	400	4.8	1450	65	55	Head	9	8.7	8.3	7.9	7.4	6.9	6.3	5.7	5.1	4.7	3.9				
3	TGA-CV55-ED-4	4	3.5	400	8	1450	65	55	in m	14.1	13.5	13	12.6	12.2	11.9	11.6	11.2	10.8	10.4	9.9	9.3	8.5	7.6	6.5

* Inbuilt with Top

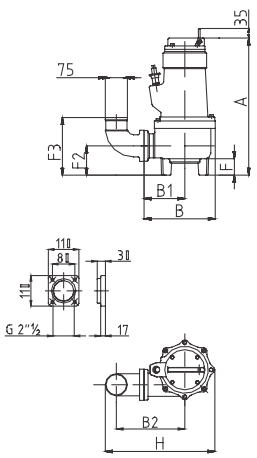
DIMENSION & WEIGHT DATA

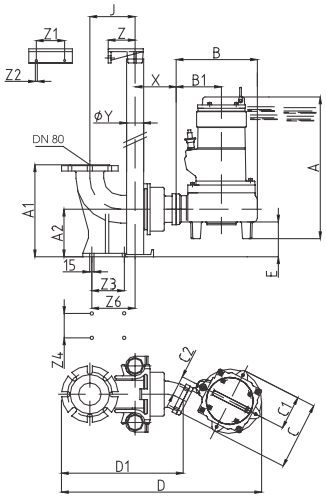
Nr	Model - Type	A max	A1	A2	B	B1	B2	C	C1	C2	D	D1	E	F	F2	F3	H	J	X	Y	Z	Z1	Z2	Z3	Z4	Z6	DN3	P3	P4	Auto coupling V	Weight (kg)
1	TGA-CV15-ET-4	475	300	160	250	154	255	220	110	55	635	356	56	59	105	205	400	134	130	42.4	84	100	12	50	96	132	65	330	515	65	39
2	TGA-CV22-ET-4	540	325	168	320	165	265	300	150	106	780	430	45	80	125	225	460	160	145	60.3	95	150	14	120	120	175	80	300	570	80	52
3	TGA-CV42-ET-4	540	325	168	320	165	265	300	150	106	780	430	45	80	125	225	460	160	145	60.3	95	150	14	120	120	175	80	300	570	80	55

IDENTIFICATION CODE & POWER CABLE SIZE

No	Model - Type	Power Cable		Control Cable	Auto coupling Model	Auto coupling Code	Base Frame Model	Pump outlet flange code	Pump Outlet flange type (inch)
		No. of Core	Size in Sq.mm						
1	TGA-CV15-ET-4	7	1.5	NA	V65	121058	NA	117842	SQUARE FLANGE 2½"
2	TGA-CV22-ET-4	4	1.5	NA	V80	121060	NA	117842	SQUARE FLANGE 2½"
3	TGA-CV42-ET-4	4	1.5	NA	V80	121060	NA	117842	SQUARE FLANGE 2½"

DIMENSION DRAWING





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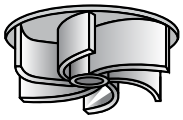
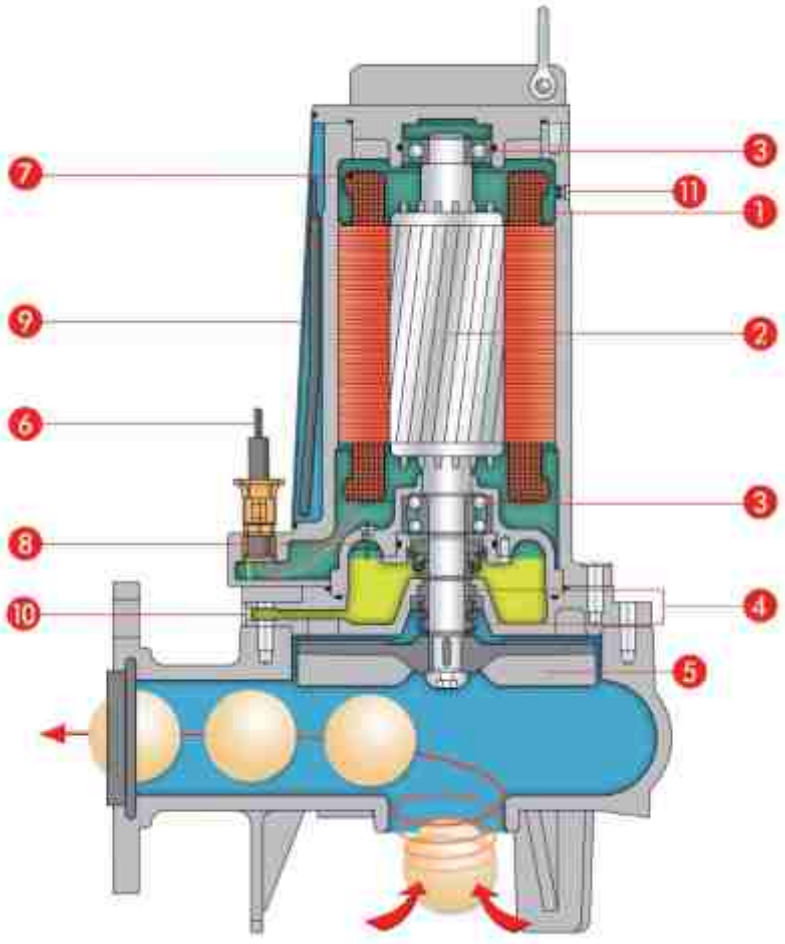
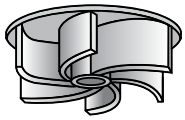


Cross Section Drawing

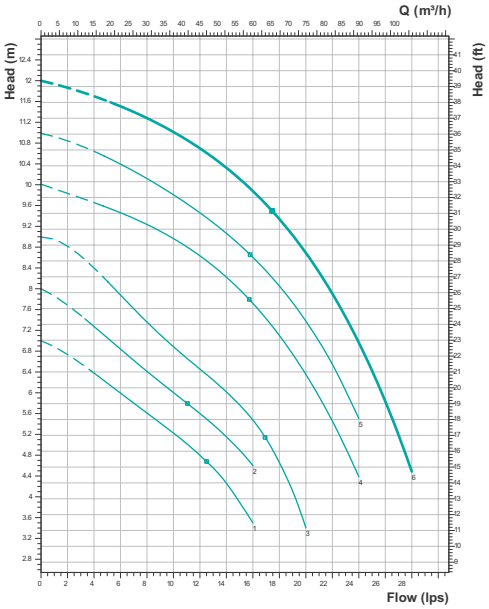


1. Fully submersible pressure tight electric motor Insulation class H. Protection degree IP 68
2. Rotor Shaft
3. Bearings
4. Mechanical seal
5. Vortex Impeller
6. Cable
7. Thermal over load protection
8. Oil chamber probe (optional)
9. Cooling jacket
10. Oil inspection plug
11. Air Plug Hole for the motor water tightness control

* The above diagram is only for illustration purpose the actual construction of the product may vary according to the model.



PERFORMANCE CURVES



PERFORMANCE TABLE

Nr	Model - Type	P1 kW	P2 kW	Volt	Amp	rpm	Delivery size (mm)	Max. Solid size (mm)	l/sec	0	4	8	12	16	20	24	28	30
									m³/h	0	14	29	43.2	57.6	72	86.4	100.8	108
1	GA-CV13-FT-4	1.5	1.3	400	4.2	1450	80	68	Head in m	7.0	6.4	5.6	4.8	3.5				
2	GA-CV17-FT-4	2.2	1.7	400	4.5	1450	80	68		8.0	7.3	6.4	5.6	4.6				
3	GA-CV22-FT-4	2.9	2.2	400	5	1450	80	68		9.0	8.4	7.4	6.5	5.5	3.4			
4	GA-CV30-FT-4	3.8	3	400	7	1450	80	68		10.0	9.7	9.2	8.6	7.7	6.4	4.4		
5	GA-CV35-FT-4	4.2	3.5	400	8	1450	80	68		11.0	10.6	10.1	9.5	8.6	7.4	5.5		
6	GA-CV42-FT-4	5.1	4.5	400	9.2	1450	80	68		12.0	11.7	11.3	10.7	9.9	8.7	7.0	4.5	

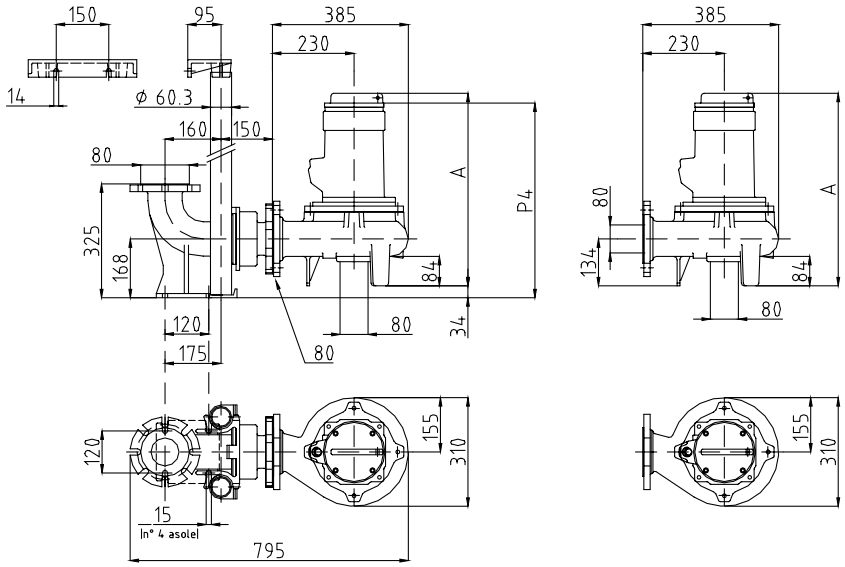
DIMENSION & WEIGHT DATA

Nr	Model - Type	A max	P4	Auto coupling V	Weight (kg)
1	TGA-CV13-FT-4	540	560	80N	62
2	TGA-CV22-FT-4	540	560	80N	62
3	TGA-CV30-FT-4	560	580	80N	68

IDENTIFICATION CODE & POWER CABLE SIZE

No	Model - Type	Power Cable		Control Cable	Auto coupling Model	Auto coupling Code	Base Frame Model	Pump Outlet flange type (inch)
		No. of Core	Size in Sq.mm					
1	GA-CV13-FT-4	7	NA	V80N	121059	NA	NA	ROUND FLANGE 3"
2	GA-CV17-FT-4	7	NA	V80N	121059	NA	NA	ROUND FLANGE 3"
3	GA-CV22-FT-4	7	NA	V80N	121059	NA	NA	ROUND FLANGE 3"
4	GA-CV30-FT-4	7	NA	V80N	121059	NA	NA	ROUND FLANGE 3"
5	GA-CV35-FT-4	7	NA	V80N	121059	NA	NA	ROUND FLANGE 3"
6	GA-CV42-FT-4	7	NA	V80N	121059	NA	NA	ROUND FLANGE 3"

DIMENSION DRAWING



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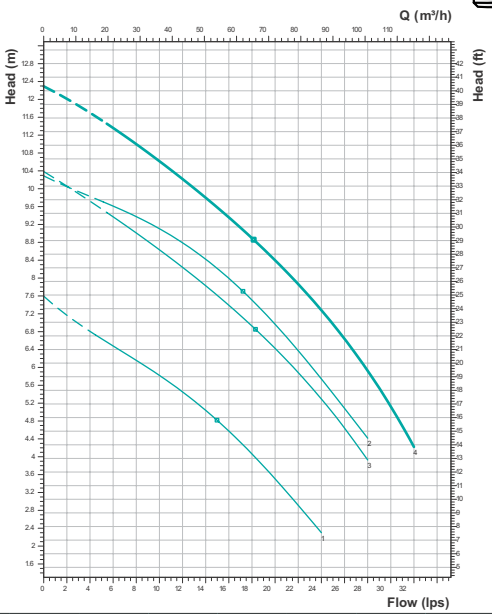
TGA Series

PERFORMANCE CURVES



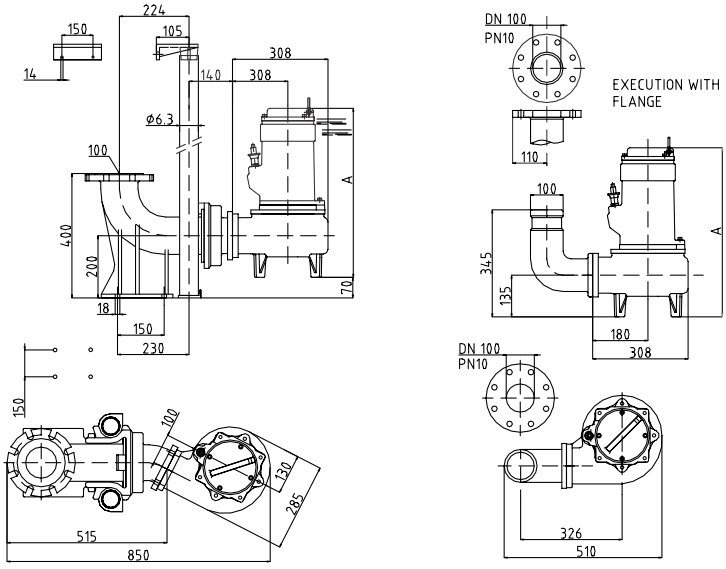
PERFORMANCE TABLE																		
Nr	Model - Type	P1 kW	P2 kW	Volt	Amp	rpm	Delivery size (mm)	Max.Solid size (mm)	l/sec	0	4	8	12	16	20	24	28	32
									m³/h	0	14	29	43.2	57.6	72	86.4	100.8	115.2
1	TGA-CV22-GT-4	4	3.5	400	8	1450	100	80	Head in m	7.6	6.8	6.2	5.5	4.6	3.5	2.3		
2	TGA-CV35-GT-4*	4.4	4.2	400	9.2	1450	100	80		10.3	9.8	9.4	8.8	8	7	5.7	4.4	
3	TGA-CV42-GT-4*	6.4	5.5	400	11	1450	100	80		10.4	9.7	9	8.2	7.4	6.4	5.3	3.9	
4	TGA-CV55-GD-4*	6.4	5.5	400	11	1450	100	80		12.3	11.7	11	10.2	9.4	8.4	7.3	5.9	5.1

* Inbuilt with TOP

DIMENSION & WEIGHT DATA				
Nr	Model - Type	A max	Auto coupling V	Weight (kg)
1	TGA-CV22-GT-4			
2	TGA-CV35-GT-4	610	100	55
3	TGA-CV42-GT-4	610	100	55
4	TGA-CV55-GD-4	580	100	59

IDENTIFICATION CODE & POWER CABLE SIZE									
No	Model - Type	Power Cable		Control Cable	Auto coupling Model	Auto coupling Code	Base Frame Model	Pump outlet flange code	Pump Outlet flange type (inch)
		No. of Core	Size in Sq.mm						
1	TGA-CV22-GT-4	7	1.5	NA	V100	121062	NA	249087	SQUARE FLANGE 4"
2	TGA-CV35-GT-4	7	1.5	NA	V100	121062	NA	249087	SQUARE FLANGE 4"
3	TGA-CV42-GT-4	12	1.5	NA	V100	121062	NA	249087	SQUARE FLANGE 4"
4	TGA-CV55-GD-4	12	1.5	NA	V100	121062	138 MS	249087	SQUARE FLANGE 4"

DIMENSION DRAWING



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TGT Series

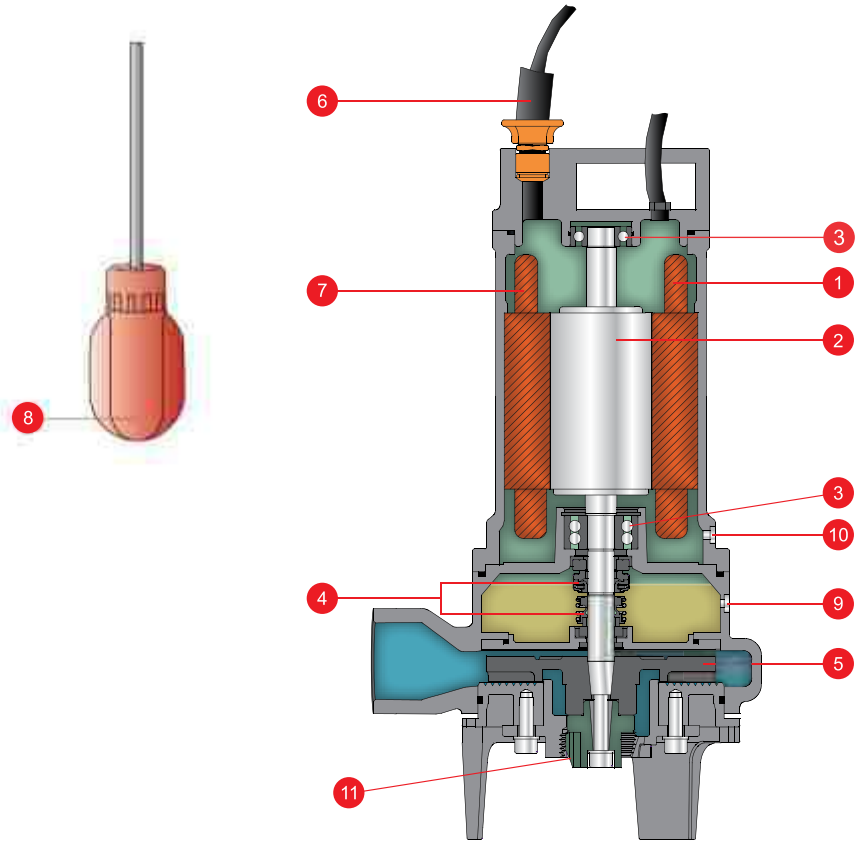
TGT Series pumps are designed to handle raw sewage, wastewater and heavy-duty industrial applications where the pump is subject to clogging from oversized materials. Cutter pumps are generally offered with vortex impeller. A cutting device and hard iron serrated casing cover provided in the pump to cut the incoming materials into pieces, permitting smooth passage through the pump into the discharge piping. A Cutter pump's job is also to reduce the size of the solids. Cutter pumps are typically used to address clogs and rags.

Operating parameters	
Max Flow	upto 30.6m³/hr
Max Head	upto 60m
Impeller Type	Vortex with Cutting Device
Outlet Size	40 & 50 mm
Max Solid Size	upto 7mm
Maximum Liquid Temperature	upto 40°C
Service	S1 Duty
No. of Starts / Per Hour	20
Max. immersion depth	20m
pH range	6 to 12
Liquid Viscosity	1 mm²/s
Liquid Density	1kg/dm³
Max. Noise level	≤ 70dB

Specifications	
Power Range	0.75 to 9.5kW
Power Supply	230V - Single phase & 380-415V - Three Phase, 50Hz, AC.
Ingress Protection	IP68
Motor	Dry Type Induction motor
Speed	2850 rpm
Class of Insulation	H
Moisture sensor	# Available
Starting Method	Single Phase - CSR, Three Phase - DOL & SD
Shaft Seal	Double Mechanical seal
Mechanical Seal Face Combination	Motor Side : Graphite / Alumina Pump Side : Silicon Carbide / Silicon Carbide
Bearing Type	Shielded prelubricated bearing
Cable Type	HO7RNF
Standard Cable Length	10m

Material of Construction	
Casing	Cast iron EN-GJL-260
Impeller / Cutter	Cast iron EN-GJL-260 / SS 440 C
Motor Housing	Cast iron EN-GJL-260
Shaft	Stainless Steel X30 Cr13 (AISI 420)
Fasteners	Stainless Steel A2 (AISI 304)

Cross Section Drawing

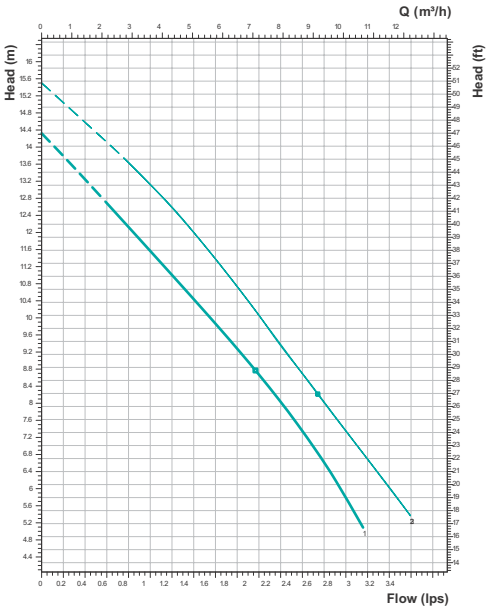


1. Fully submersible pressure tight electric motor
2. Rotor Shaft
3. Bearings
4. Mechanical seal
5. Vortex Impeller
6. Cable
7. Thermal over load protector
8. Float switch
9. Oil inspection plug
10. Air plug hole for the motor water tightness control
11. Cutting device

* The above diagram is only for illustration purpose the actual construction of the product may vary according to the model.

TGT Series

PERFORMANCE CURVES



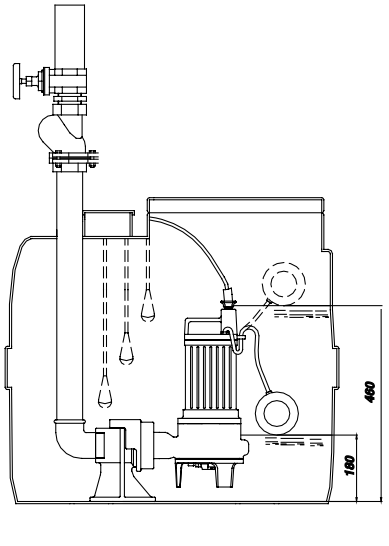
PERFORMANCE TABLE

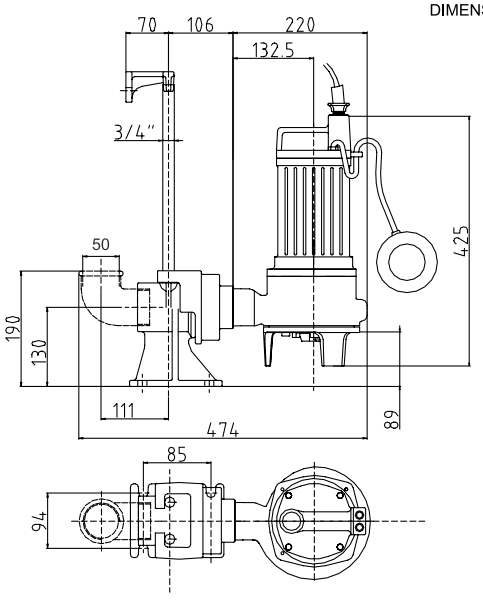
Nr	Model - Type	P1 kW	P2 kW	Volt	µF	Amp	rpm	Delivery size (mm)	Max.Solid size (mm)	Auto coupling V	Weight (kg)	l/sec	0	1	2	3	4	4.5	5
												m³/h	0	4	7	10.8	14.4	16.2	18
1	TGT-CV07-CT	0.9	0.75	400		2.7	2850	40	6	40N	24		14.3	11.5	8.6	4.8			
2	TGT-CV11-CMs-A	1.3	1.1	230	30	7.5	2850	40	6	40N	25	Head in m	15.5	13.1	10	6.6			
2	TGT-CV11-CT-R	1.3	1.1	400		3.2	2850	40	6	40N	25		15.5	13.1	10	6.6			

IDENTIFICATION CODE & POWER CABLE SIZE

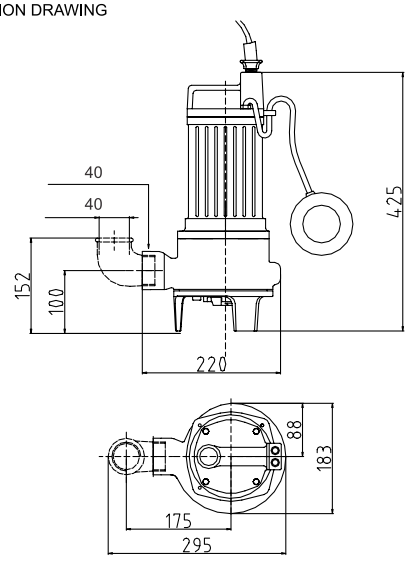
No	Model - Type	Power Cable		Control Cable	Auto coupling Model	Auto coupling Code	Base Frame Model	Pump Outlet flange type (inch)
		No. of Core	Size in Sq.mm					
1	TGT-CV07-CT	4	1.5	NA	V40	146294	NA	THREADED G1½"
2	TGT-CV11-CMs-A	4	1.5	NA	V40	146294	NA	THREADED G1½"
2	TGT-CV11-CT-R	4	1.5	NA	V40	146294	NA	THREADED G1½"

INSTALLATION DRAWING





DIMENSION DRAWING



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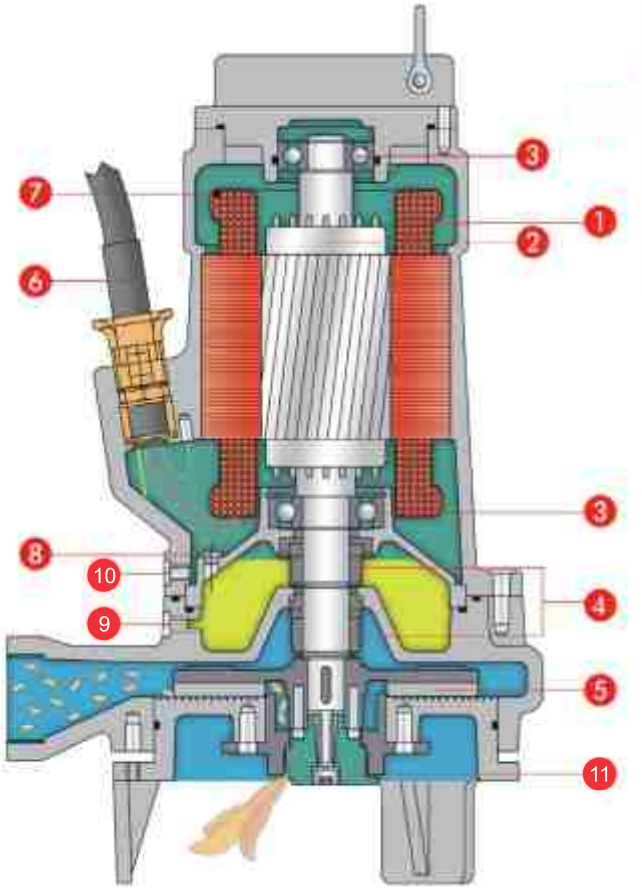
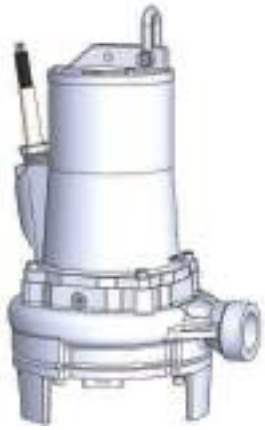
Cross Section Drawing



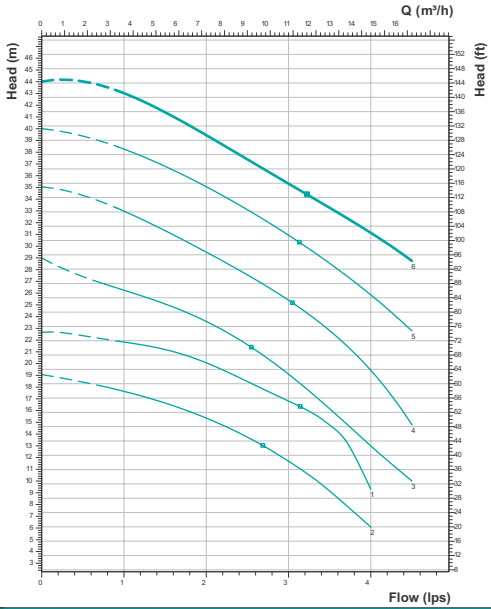
1. Fully submersible pressure tight electric motor
2. Rotor Shaft
3. Bearing
4. Mechanical seal
5. Vortex Impeller
6. Cable
7. Thermal over load protector
8. Oil chamber probe
9. Oil inspection plug
10. Air plug hole for the motor water tightness control
11. Cutting device

* The above diagram is only for illustration purpose the actual construction of the product may vary according to the model.

TGT Series



PERFORMANCE CURVES



PERFORMANCE TABLE

Nr	Model - Type	P1 kW	P2 kW	Volt	µF	Amp	rpm	Delivery size (mm)	Max.Solid size (mm)	l/sec	0	1	2	3	4	4.5	5
										m³/h	0	4	7	10.8	14.4	16.2	18
1	TGT-CV16-CMs	2	1.6	230	40	10	2850	40	7	Head in m	22.7	21.8	20.1	16.8	9.3		
2	TGT-CV11-CT *	1.5	1.1	400		3	2850	40	7		19.1	17.6	15.4	11.7	6.1		
3	TGT-CV18-CT *	2.2	1.85	400		4.5	2850	40	7		28.9	26.3	23.6	19.1	13	10	
4	TGT-CV26-CT *	3.3	2.6	400		5.8	2850	40	7		35	33	29.5	25.4	19.4	14.8	
5	TGT-CV36-CT *	4	3.6	400		8	2850	40	7		40	38.3	35.1	30.9	25.9	22.8	
6	TGT-CV40-CT *	5	4	400		10	2850	40	7		44	43	39.5	35.3	31.1	28.8	

* Inbuilt with TOP

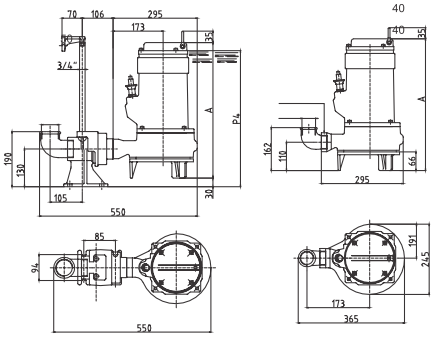
DIMENSION & WEIGHT DATA

Nr	Model - Type	A max	P4	Auto coupling V	Weight (kg)
1	TGT-CV16-CMs	455	470	40N	44
2	TGT-CV11-CT *	420	435	40N	38
3	TGT-CV18-CT *	420	435	40N	39
4	TGT-CV26-CT *	455	470	40N	44
5	TGT-CV36-CT *	470	485	40N	54
6	TGT-CV40-CT *	470	485	40N	55

IDENTIFICATION CODE & POWER CABLE SIZE

No	Model - Type	Power Cable		Control Cable	Auto coupling Model	Auto coupling Code	Base Frame Model	Pump Outlet flange type (inch)
		No. of Core	Size in Sq.mm					
1	TGT-CV16-CMs	4	1.5	NA	V40	146294	NA	THREADED G1½"
2	TGT-CV11-CT	7	1.5	NA	V40	146294	NA	THREADED G1½"
3	TGT-CV18-CT	7	1.5	NA	V40	146294	NA	THREADED G1½"
4	TGT-CV26-CT	7	1.5	NA	V40	146294	NA	THREADED G1½"
5	TGT-CV36-CT	7	1.5	NA	V40	146294	NA	THREADED G1½"
6	TGT-CV40-CT	7	1.5	NA	V40	146294	NA	THREADED G1½"

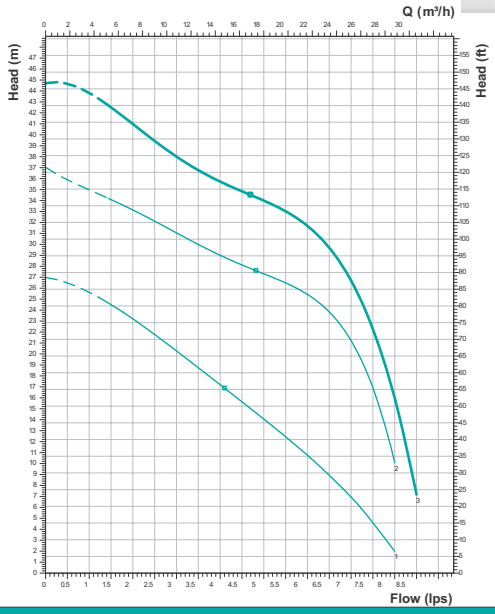
DIMENSION DRAWING



* In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

TGT Series

PERFORMANCE CURVES



PERFORMANCE TABLE

Nr	Model - Type	P1 kW	P2 kW	Volt	Amp	rpm	Delivery size (mm)	Max.Solid size (mm)	l/sec	0	1	2	3	4	4.5	5	6	7	8	8.5
									m³/h	0	4	7	10.8	14.4	16.2	18	21.6	25.2	28.8	30.6
1	TGT-CV26-CT-HF *	3	2.6	400	5.5	2850	40	7	Head in m	27	25.6	23.2	20.3	17.2	15.6	14.1	10.8	6.9	2	
2	TGT-CV40-CT-HF *	4.5	4	400	8	2850	40	7		37	35	33.1	31.1	29	28.1	27.3	25.4	21.2	10.1	
3	TGT-CV55-CD-HF *	6	5.5	400	12	2850	40	7		44.7	43.8	41	38	35.7	34.8	34	31.7	26.7	15.9	7.2

* Inbuilt with TOP

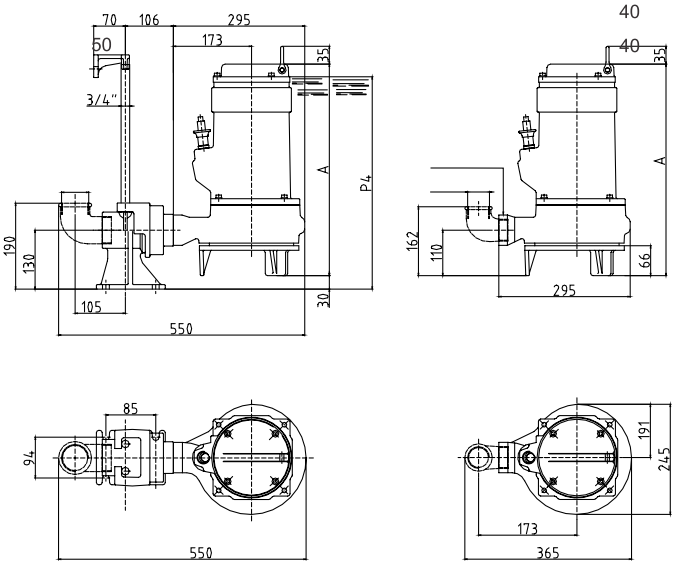
DIMENSION & WEIGHT DATA

Nr	Model - Type	A max	Auto coupling V	Weight (kg)
1	TGT-CV26-CT-HF	455	40N	39
2	TGT-CV40-CT-HF	470	50N	54
3	TGT-CV55-CD-HF	470	50N	55

IDENTIFICATION CODE & POWER CABLE SIZE

No	Model - Type	Power Cable		Control Cable	Auto coupling Model	Auto coupling Code	Base Frame Model	Pump Outlet flange type (inch)
		No. of Core	Size in Sq.mm					
1	TGT-CV26-CT-HF	7	1.5	NA	V40	146294	NA	THREADED G1½"
2	TGT-CV40-CT-HF	7	1.5	NA	V40	146294	NA	THREADED G1½"
3	TGT-CV55-CD-HF	12	1.5	NA	V40	146294	NA	THREADED G1½"

DIMENSION DRAWING



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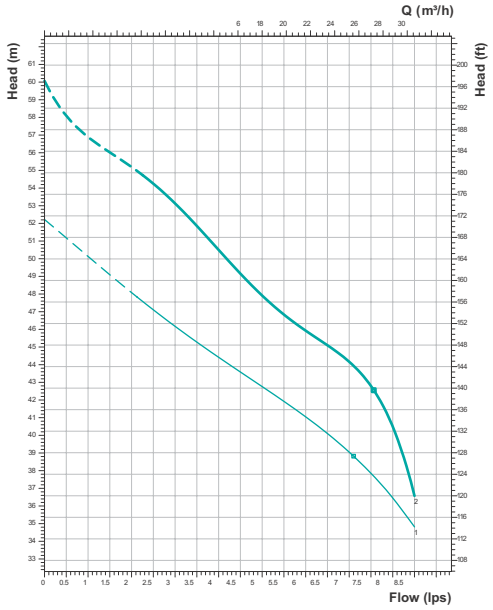
PERFORMANCE CURVES



PERFORMANCE TABLE

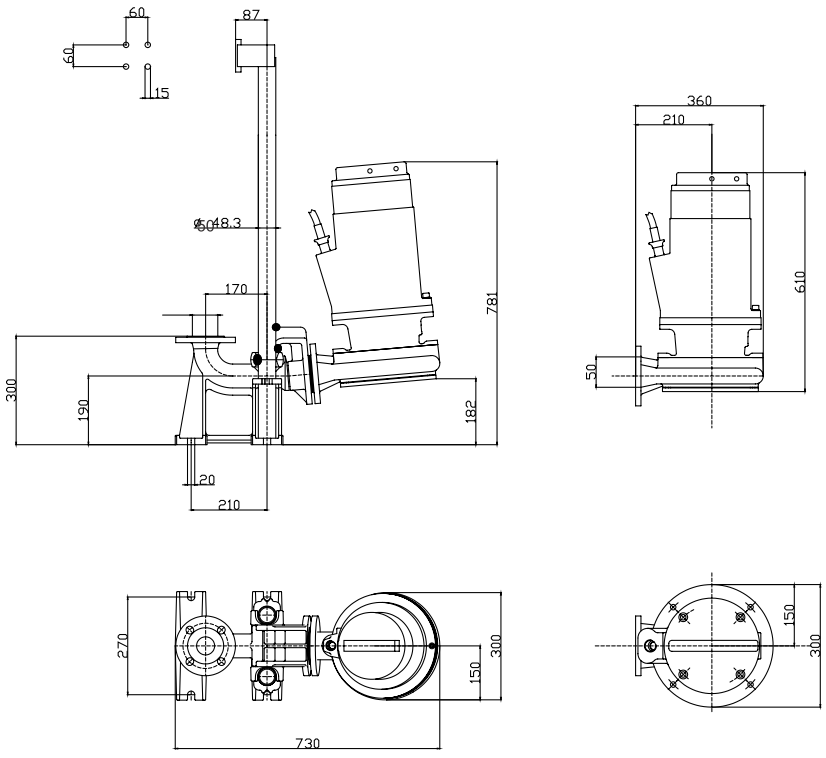
Nr	Model - Type	P1 kW	P2 kW	Volt	Amp	rpm	Delivery size (mm)	Max.Solid size (mm)	Auto coupling V	Weight (kg)	l/sec	0	1	2	3	4	4.5	5	6	7	8	8.5
											m³/h	0	4	7	10.8	14.4	16.2	18	21.6	25.2	28.8	30.6
1	TGT-CV72-DD-HF *	8	7.2	400	15	2850	50	7	50K	110	Head in m	52.2	50	48.1	46.2	44.4	43.6	42.8	41.1	39.1	36.5	34.8
2	TGT-CV95-DD-HF *#	11	9.5	400	19	2850	50	7	50K	110		60	56.9	55.2	53.1	50.5	49.2	47.9	45.9	43.5	40.5	36.6

* Inbuilt with TOP / # Moisture sensor available

IDENTIFICATION CODE & POWER CABLE SIZE

No	Model - Type	Power Cable		Control Cable		Auto coupling Model	Auto coupling Code	Base Frame Model	Base Frame Code	Pump Outlet flange type (inch)
		No. of Core	Size in Sq.mm	No. of Core	Size in Sq.mm					
1	TGT-CV72-DD-HF *	12	1.5	NA	NA	V50K	146298	MS-410-150-0340	148102	ROUND FLANGE 2"
2	TGT-CV95-DD-HF *#	7	2.5	4	1.5	V50K	146298	MS-410-150-0340	148102	ROUND FLANGE 2"

DIMENSION DRAWING



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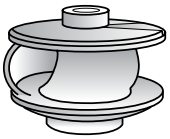


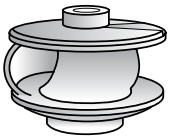
TMC Series

TMC Series reliable and highly efficient pumps have been designed for pumping of municipal and industrial wastewater, raw water, storm water, sewage and sludges etc. A single channel closed impeller design that offers reliability against clogging and good resistance to wear. It can handle the solids upto 4"in diameter.

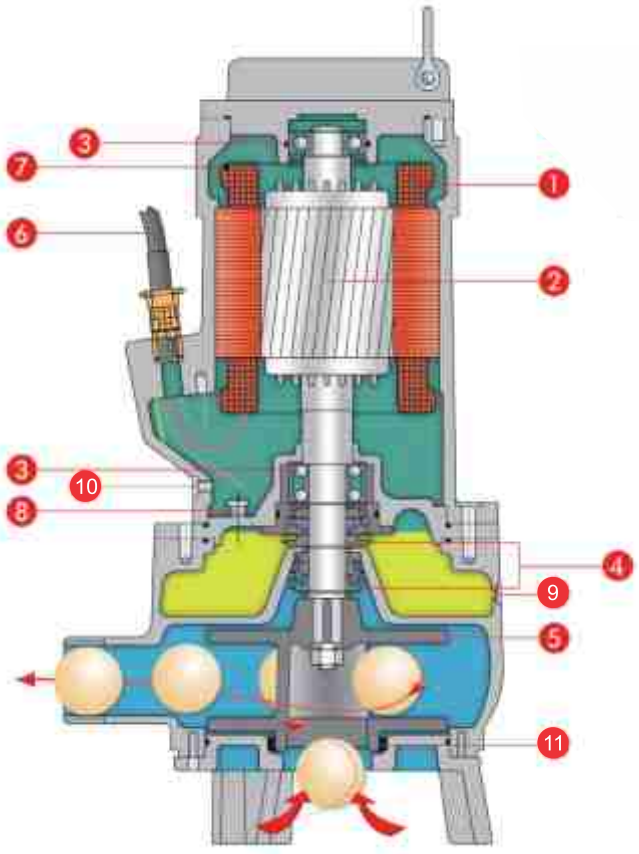
Operating parameters	
Max Flow	Upto 400m³/hr
Max Head	Upto 50m³/hr
Impeller Type	Mono Channel (Single Channel)
Outlet Size	80 - 150 mm
Max Solid Size	upto 90mm
Maximum Liquid Temperature	upto 40°C
Service	S1 Duty
No. of Starts / Per Hour	20
Max. immersion depth	20m
pH range	6 to 12
Liquid Viscosity	1 mm²/s
Liquid Density	1kg/dm³
Max. Noise level	≤ 70dB

Specifications	
Power Range	1.85 to 34kW
Power Supply	380-415V - Three Phase, 50Hz, AC.
Ingress Protection	IP68
Motor	Dry Type Induction motor
Speed	1450 / 2850 rpm
Class of Insulation	H
Moisture sensor	# Available
Thermal Overload Protector	* Available
Starting Method	Three Phase - DOL & SD
Shaft Seal	Single / Double Mechanical seal
Mechanical Seal Face Combination	Motor Side : Graphite / Alumina Pump Side : Silicon Carbide / Silicon Carbide
Bearing Type	Shielded prelubricated bearing
Cable Type	HO7RNF
Standard Cable Length	10m

Material of Construction	
Casing	Cast iron EN-GJL-260
Impeller	Cast iron EN-GJL-260
Motor Housing	Cast iron EN-GJL-260
Shaft	Stainless Steel X30 Cr13 (AISI 420)
Fasteners	Stainless Steel A2 (AISI 304)



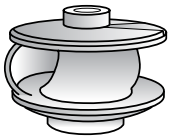
Cross Sectional Drawing



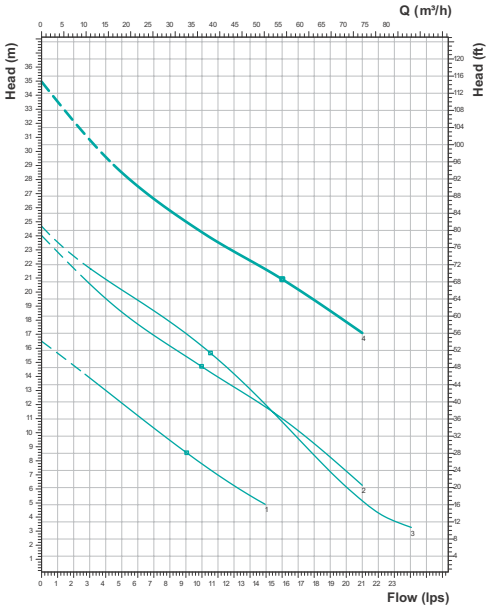
1. Fully submersible pressure tight electric motor
2. Rotor Shaft
3. Bearing
4. Mechanical seal
5. Single-channel impeller
6. Cable
7. Thermal over load protector
8. Oil chamber probe (optional)
9. Oil inspection plug
10. Air plug hole for the motor water tightness control
11. Bronze wear ring

* The above diagram is only for illustration purpose the actual construction of the product may vary according to the model.

TMC Series



PERFORMANCE CURVES



PERFORMANCE TABLE

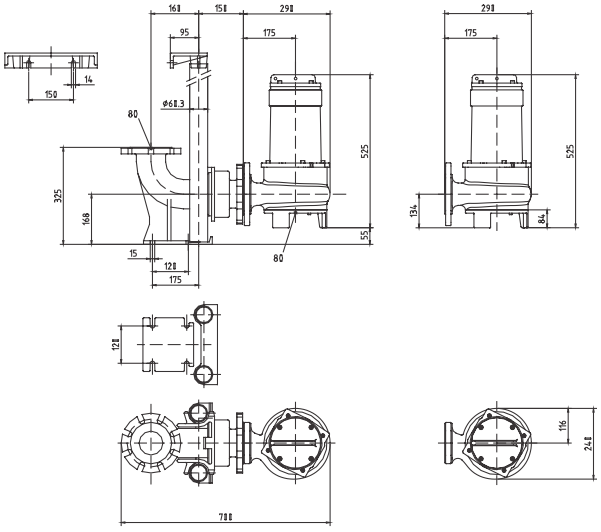
Nr	Model - Type	P1 kW	P2 kW	Volt	Amp	rpm	Delivery size (mm)	Max. Solid size (mm)	l/sec	0	3	6	9	12	15	18	21	22
									m³/h	0	10.8	22	32	43.2	54	64.8	75.6	79.2
1	TMC-CC18-FT *#	2.2	1.85	400	4	2850	80	50	Head in m	16.5	13.9	11.2	8.6	6.2				
2	TMC-CC30-FT *	3.7	3	400	6.8	2850	80	50		24	20.6	17.7	15.4	13.3	11	8.3		
3	TMC-CC40-FT *	5	4	400	8.6	2850	80	50		24.7	21.7	19.4	17.1	14.2	10.8	7.2		
4	TMC-CC55-FD *#	6.2	5.5	400	10	2850	80	50		34.9	30.8	27.5	25	22.9	20.9	18.7	4.3	3.7

* Inbuilt with TOP / # Moisture sensor available

IDENTIFICATION CODE & POWER CABLE SIZE

No	Model - Type	Power Cable		Control Cable	Auto coupling Model	Auto coupling Code	Base Frame Model	Pump Outlet flange type (inch)
		No. of Core	Size in Sq.mm					
1	TMC-CC18-FT	7	1.5	NA	V80N	121059	NA	SEMI CIRCLE FLANGE 3"
2	TMC-CC30-FT	7	1.5	NA	V80N	121059	NA	SEMI CIRCLE FLANGE 3"
3	TMC-CC40-FT	7	1.5	NA	V80N	121059	NA	SEMI CIRCLE FLANGE 3"
4	TMC-CC55-FD	12	1.5	NA	V80N	121059	NA	SEMI CIRCLE FLANGE 3"

DIMENSION DRAWING



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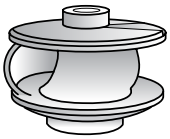
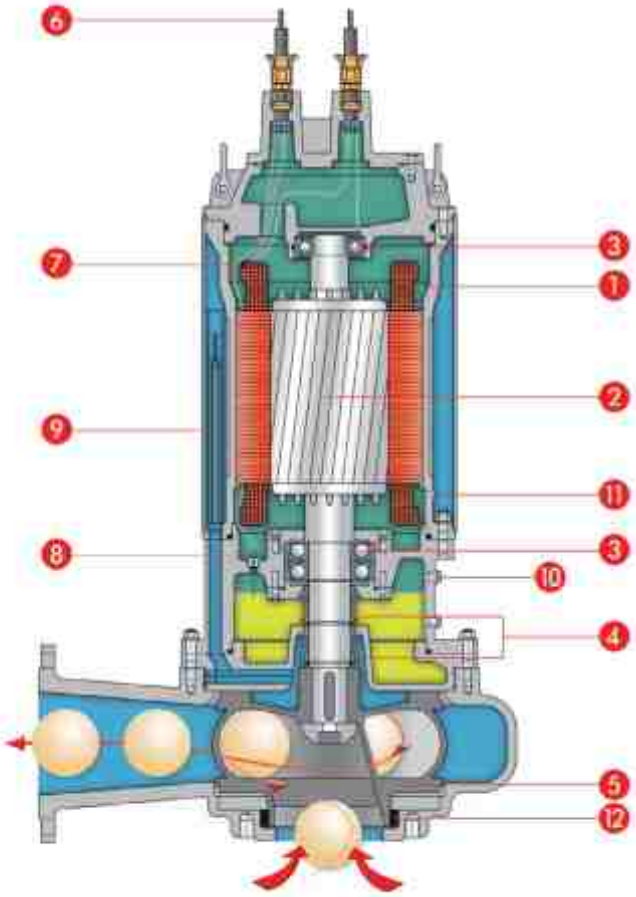


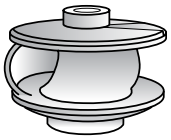
Cross Sectional Drawing



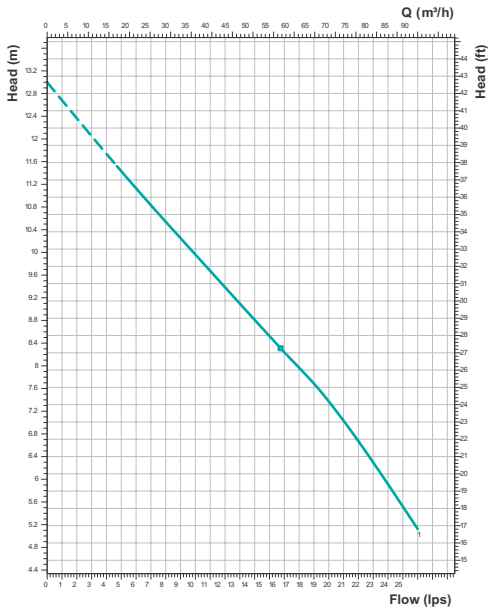
1. Fully submersible pressure tight electric motor
2. Rotor Shaft
3. Bearing
4. Mechanical seal
5. Closed single-channel impeller
6. Cable
7. Thermal over load protector
8. Oil chamber probe
9. Cooling jacket (optional)
10. Oil inspection plug
11. Air plug Hole for the motor water tightness control
12. Bronze wear ring

* The above diagram is only for illustration purpose the actual construction of the product may vary according to the model.

TMC Series



PERFORMANCE CURVES

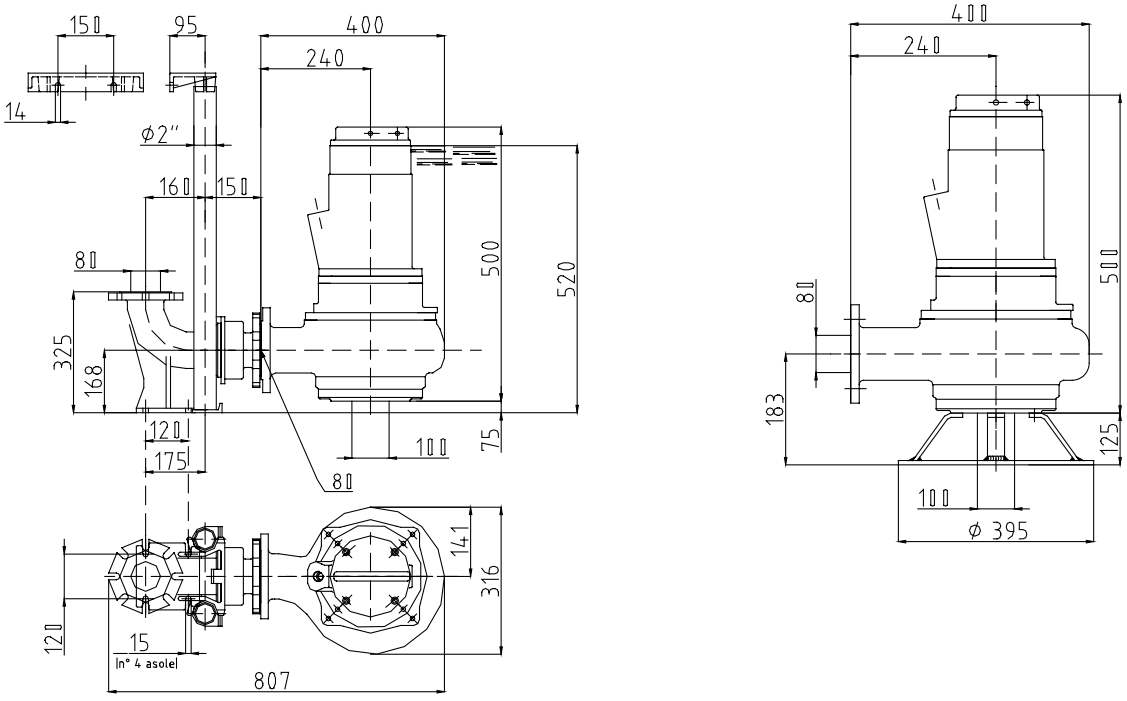


PERFORMANCE TABLE																		
Nr	Model - Type	P1 kW	P2 kW	Volt	Amp	rpm	Delivery size (mm)	Max.Solid size (mm)	Auto coupling V	Weight (kg)	l/sec	0	5	10	15	20	25	30
											m³/h	0	18	36	54	72	90	108
1	TMC-CC22-FT-4 *#	2.9	2.2	400	4.8	1450	80	70	80N	63	Head in m	13	11.4	10	8.5	7	5.1	

* Inbuilt with TOP / # Moisture sensor available

IDENTIFICATION CODE & POWER CABLE SIZE									
No	Model - Type	Power Cable		Control Cable	Auto coupling Model	Auto coupling Code	Base Frame Model	Base Frame Code	Pump Outlet flange type (inch)
		No. of Core	Size in Sq.mm						
1	TMC-CC22-FT-4	7	1.5	NA	V80N	121059	180 MS	117184	ROUND FLANGE 3"

DIMENSION DRAWING



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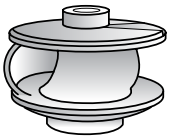
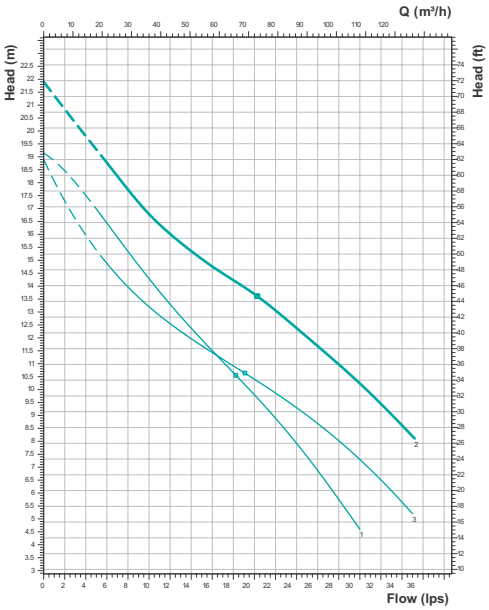


PERFORMANCE CURVES



PERFORMANCE TABLE

Nr	Model - Type	P1 kW	P2 kW	Volt	Amp	rpm	Delivery size (mm)	Max. Solid size (mm)	l/sec	0	5	10	15	20	25	30	35	40	45
									m^3/h	0	18	36	54	72	90	108	126	144	162
1	TMC-CC35-FT-4 *	3.8	3.5	400	6.6	1450	80	70	Head in m	19.2	17	14.3	11.9	9.8	7.4	4.6			
2	TMC-CC42-FT-4	5	4.2	400	9.2	1450	80	70		18.9	15.4	13.2	11.7	10.4	9	7.3	5.2		
3	TMC-CC65-FD-4 #	7·6	6·5	400	13	1450	80	70	in m	21.9	19.3	16.8	15.1	13.7	12	10.2	8.2		

* Inbuilt with TOP / # Moisture sensor available

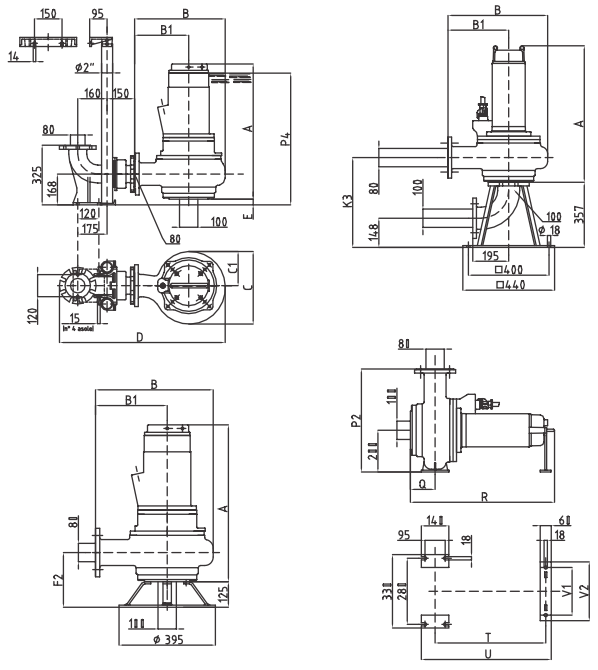
DIMENSION & WEIGHT DATA

Nr	Model - Type	A max	B	B1	C	C1	D	E	F2	P2	P4	V1	V2	T	U	DN1	Auto coupling V	Weight (kg)
1	TMC-CC35-FT-4	587	465	283	366	167	872	45	239	483	592	280	240	550	650	80	80N	66
2	TMC-CC42-FT-4																	
	TMC-CC65-FD-4	636	465	283	366	167	872	45	239	483	641	280	240	550	650	100	80N	108

IDENTIFICATION CODE & POWER CABLE SIZE

No	Model - Type	Power Cable		Control Cable	Auto coupling Model	Auto coupling Code	Base Frame Model	Base Frame Code	Pump Outlet flange type (inch)
		No. of Core	Size in Sq.mm						
1	TMC-CC35-FT-4	7	1.5	NA	V80N	121059	180 MS	117184	ROUND FLANGE 3"
2	TMC-CC42-FT-4	7	1·5	NA	V80N	121059	180 MS	117184	ROUND FLANGE 3"
3	TMC-CC65-FD-4	12	1.5	NA	V80N	121059	180 MS	117184	ROUND FLANGE 3"

DIMENSION DRAWING



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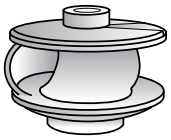
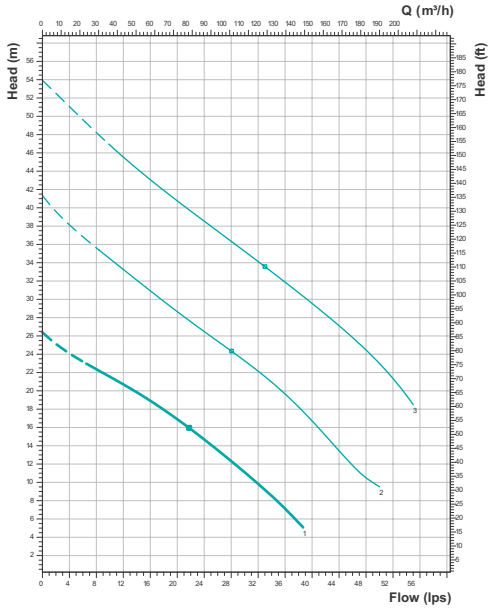
TMC Series



PERFORMANCE CURVES



PERFORMANCE TABLE

Nr	Model - Type	P1 kW	P2 kW	Volt	Amp	rpm	Delivery size (mm)	Max.Solid size (mm)	l/sec	0	5	10	15	20	25	30	35	40	45	50	55
									m^3/h	0	18	36	54	72	90	108	126	144	162	180	
1	TMC-CC90-FD *#	10.5	9	400	18	2850	80	70	Head in m	26.4	23.6	21.5	19.4	16.9	14.1	11.1	7.8				
2	TMC-CC150-FD *#	18.5	15	400	30	2850	80	70		41.3	37.5	34.4	31.5	28.7	26	23.3	20.3	16.7	12.6	9.5	
3	TMC-CC220-FD *#	25	22	400	42	2850	80	70		53.9	50.3	46.9	43.7	40.8	38	35.2	32.4	29.6	26.5	23	18.5

* Inbuilt with TOP / # Moisture sensor available

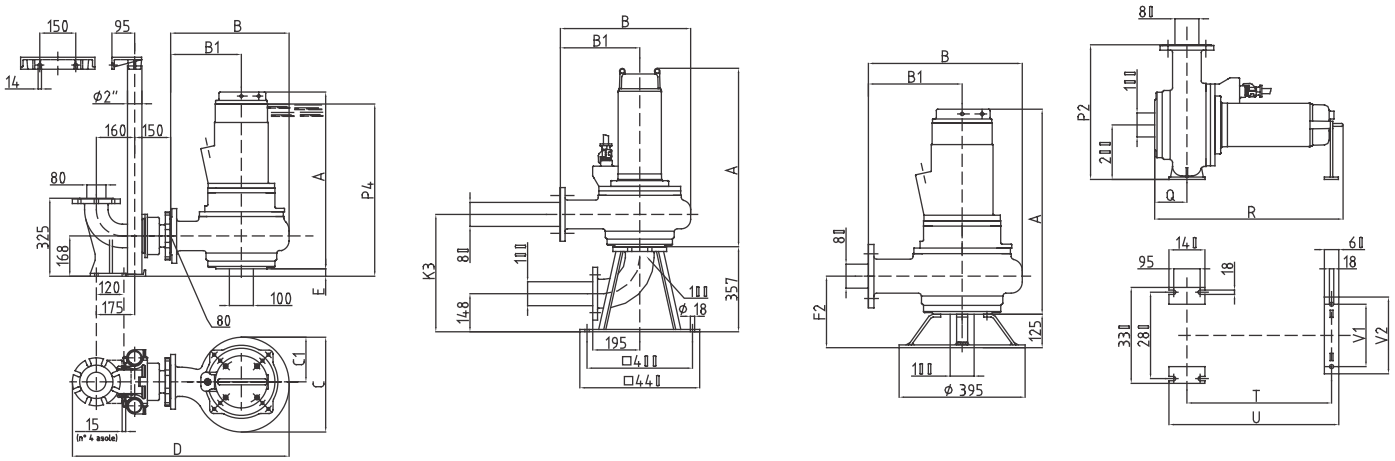
DIMENSION & WEIGHT DATA

Nr	Model - Type	A max	B	B1	C	C1	D	E	F2	P2	P4	K3	Q	T	U	V1	V2	Auto coupling V	Weight (kg)
1	TMC-CC90-FD	673	357	202	307	149	764	72	213	402	695	450	92	548	648	260	320	80N	105
2	TMC-CC220-FD	749	357	202	307	149	764	72	213	402	771	450	92	796	896	310	370	80N	180
3	TMC-CC280-FD	836	466	283	380	200	873	45	244	483	824	476	119	796	896	310	370	80N	205

IDENTIFICATION CODE & POWER CABLE SIZE

No	Model - Type	Power Cable		Control Cable		Auto coupling Model	Auto coupling Code	Base Frame Model	Base Frame Code	Pump Outlet flange type (inch)
		No. of Core	Size in Sq.mm	No. of Core	Size in Sq.mm					
1	TMC-CC90-FD	7	2.5	4	1.5	V80N	121059	180 MS	117184	ROUND FLANGE 3"
2	TMC-CC220-FD	4	4	4	1.5	V80N	121059	180 MS	117184	ROUND FLANGE 3"
3	TMC-CC280-FD	4	6	4	1.5	V80N	121059	180 MS	117184	ROUND FLANGE 3"

DIMENSION DRAWING



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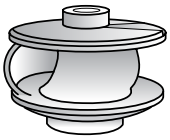
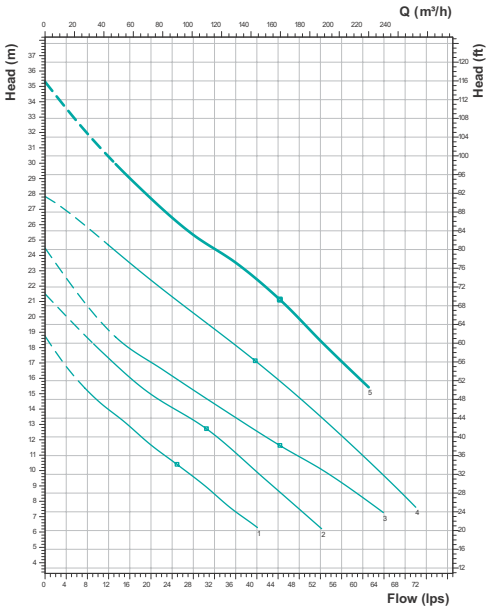


PERFORMANCE CURVES



PERFORMANCE TABLE

Nr	Model - Type	P1 kW	P2 kW	Volt	Amp	rpm	Delivery size (mm)	Max.Solid size (mm)	l/sec	0	5	10	15	20	25	30	35	40	45	50	55	60	70
									m³/h	0	18	36	54	72	90	108	126	144	162	180	198	240	252
1	TMC-CC50-GD-4 *#	6	5	400	11	1450	100	90	Head in m	18.7	16.3	14.5	13.2	11.7	10.4	9.1	7.6	6.3					
2	TMC-CC75-GD-4 *#	9	7.5	400	16	1450	100	90		21.5	19.7	18	16.4	15	13.9	12.8	11.5	9.9	8.4	6.9			
3	TMC-CC90-GD-4 *#	11	9	400	20	1450	100	90		24.5	22.1	19.9	18.2	17.1	15.9	14.8	13.7	12.6	11.5	10.5	9.4	8.2	
4	TMC-CC140-GD-4 *#	17	14	400	30	1450	100	90		27.8	26.7	25.3	23.8	22.4	21.1	19.7	18.4	17.1	15.6	14.1	12.6	11	7.6
5	TMC-CC175-GD-4 *#	20	17·5	400	36	1450	100	90		35.3	33.2	31.2	29.4	27.7	26.2	24.9	23.8	22.4	20.9	19.2	17.4	15.8	

* Inbuilt with TOP / # Moisture sensor available

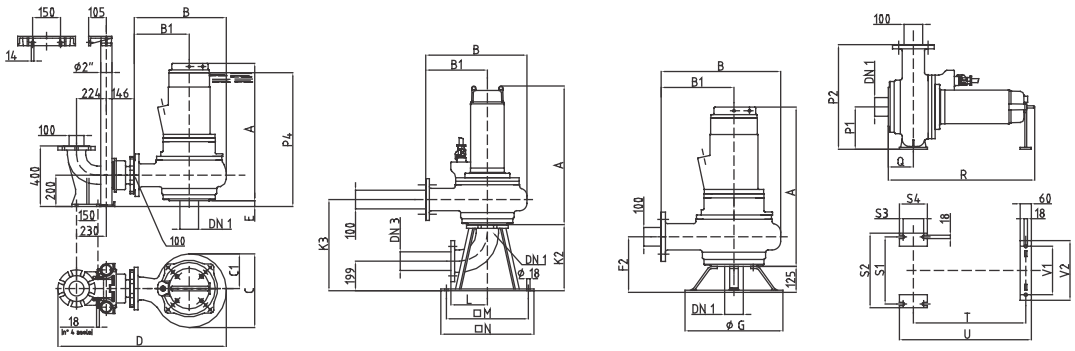
DIMENSION & WEIGHT DATA

Nr	Model - Type	A max	B	B1	C	C1	D	E	F2	P2	P4	P1	G	K1	K2	K3	L	M	N	S1	S2	S3	S4	T	U	V1	V2	DN1	DN3	kg	Auto coupling V	Weight (kg)
1	TMC-CC50-GD-4	659	462	282	361	166	939	70	256	482	689	200	395	151	345	468	195	380	440	280	330	95	140	651	751	260	320	100	100	109	100N	106.5
2	TMC-CC75-GD-4	675	462	282	361	166	939	70	256	482	703	250	450	199	470	605	271	440	500	350	410	120	160	902	1012	310	370	150	150	118	100N	111
3	TMC-CC90-GD-4	742	584	333	480	214	1061	65	254	584	757	250	450	199	470	605	271	440	500	350	410	120	160	902	1012	310	370	150	150	184	100N	207
4	TMC-CC140-GD-4	818	584	333	480	214	1061	65	260	584	833	250	450	199	470	605	271	440	500	350	410	120	160	902	1012	310	370	150	150	212	100N	226.5
5	TMC-CC175-GD-4	818	584	333	480	214	1061	65	260	584	833	250	450	199	470	605	271	440	500	350	410	120	160	902	1012	310	370	150	150	231	100N	232

IDENTIFICATION CODE & POWER CABLE SIZE

No	Model - Type	Power Cable		Control Cable		Auto coupling Model	Auto coupling Code	Base Frame Model	Base Frame Code	Pump Outlet flange type (inch)
		No. of Core	Size in Sq.mm	No. of Core	Size in Sq.mm					
1	TMC-CC50-GD-4	12	1.5	NA	NA	V100N	121061	180 MS	117184	ROUND FLANGE 4"
2	TMC-CC75-GD-4	12	1.5	NA	NA	V100N	121061	180 MS	117184	ROUND FLANGE 4"
3	TMC-CC90-GD-4	7	2.5	4	1.5	V100N	121061	240 MS (H-125)	117186	ROUND FLANGE 4"
4	TMC-CC140-GD-4	4	4	4	1.5	V100N	121061	240 MS (H-125)	117186	ROUND FLANGE 4"
5	TMC-CC175-GD-4	4	4	4	1.5	V100N	121061	240 MS (H-125)	117186	ROUND FLANGE 4"

DIMENSION DRAWINGS



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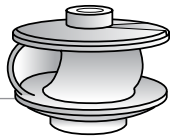
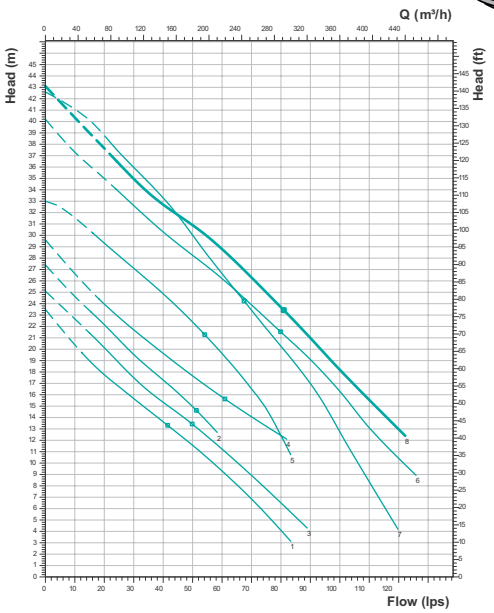
TMC Series



PERFORMANCE CURVES



PERFORMANCE TABLE

Nr	Model - Type	P1 kW	P2 kW	Volt	Amp	rpm	Delivery size (mm)	Max.Solid size (mm)	l/sec	0	10	20	30	40	50	60	70	80	90	100	120	140
									m³/h	0	36	72	108	144	180	216	252	288	324	360	432	504
1	TMC-CC90-ID-4 *#	11	9	400	20	1450	150	90	Head in m	23.5	20.4	17.8	15.7	13.6	11.6	9.3	6.8	4.1				
2	TMC-CC120-ID-4 *#	14	12	400	24	1450	150	90		27.4	24.6	22.2	19.5	17.3	15							
3	TMC-CC140-ID-4 *#	17	14	400	30	1450	150	90		25.1	22.7	20.1	17.5	15.3	13.4	11.2	8.9	6.5				
4	TMC-CC175-ID-4 *#	20	17.5	400	36	1450	150	90		29.6	26.6	24	21.7	19.6	17.7	15.8	14.1	12.4				
5	TMC-CC220-ID-4 *#	25	22	400	45	1450	150	90		33	31.6	29.3	27.1	24.9	22.4	19.6	16.5	12.6				
6	TMC-CC260-ID-4 *#	29	26	400	48	1450	150	90		40.2	37.3	35	32.6	30.3	28.3	26.2	23.9	21.5	19.1	16.3	10.4	
7	TMC-CC300-ID-4 *	33	30	400	60	1450	150	90		42.6	41.1	38.8	36	33.3	30	26.6	23.4	20.3	17	12.7		
8	TMC-CC340-ID-4 *	39	34	400	68	1450	150	90		43.1	40.3	37.6	35	32.7	30.9	28.8	26.3	23.7	21	18.2	13	

* Inbuilt with TOP / # Moisture sensor available

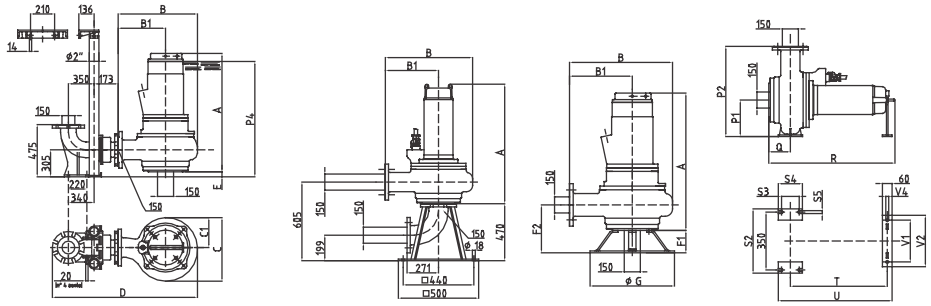
DIMENSION & WEIGHT DATA

Nr	Model - Type	A max	B	B1	C	C1	D	E	F1	F2	G	P2	P4	P1	Q	S1	S2	S3	S4	S5	T	U	V1	V2	Auto coupling V	Weight (kg)
1	TMC-CC90-ID-4	742	583	333	490	220	1257	171	125	303	450	583	863	250	135	350	410	120	160	18	902	1012	310	370	150N	190
2	TMC-CC120-ID-4	818	592	333	490	220	1266	171	125	303	450	583	939	250	135	350	410	120	160	18	902	1012	310	370	150N	192
3	TMC-CC140-ID-4	818	592	333	490	220	1266	171	125	303	450	583	939	250	135	350	410	120	160	18	902	1012	310	370	150N	218
4	TMC-CC175-ID-4	818	592	333	490	220	1266	171	125	303	450	583	939	250	135	350	410	120	160	18	902	1012	310	370	150N	222
5	TMC-CC220-ID-4	884	691	420	549	244	1365	166	174	306	600	770	994	310	140	350	450	90	140	20	1125	1225	360	420	150N	320
6	TMC-CC260-ID-4	884	691	420	549	244	1365	166	174	306	600	770	994	310	140	350	450	90	140	20	1125	1225	360	420	150N	410
7	TMC-CC300-ID-4	1082	691	420	549	244	1365	166	174	306	600	770	1143	310	140	350	450	90	140	20	1125	1225	360	420	150N	420
8	TMC-CC340-ID-4	1082	691	420	549	244	1365	166	174	306	600	770	1143	310	140	350	450	90	140	20	1125	1225	360	420	150N	430

IDENTIFICATION CODE & POWER CABLE SIZE

No	Model - Type	Power Cable		Control Cable		Auto coupling Model	Auto coupling Code	Base Frame Model	Base Frame Code	Pump Outlet flange type (inch)
		No. of Core	Size in Sq.mm	No. of Core	Size in Sq.mm					
1	TMC-CC90-ID-4	7	1.5	4	1.5	V150N	121063	240 MS (H-125)	117186	ROUND FLANGE 5"
2	TMC-CC120-ID-4	4	4	4	1.5	V150N	121063	240 MS (H-125)	117186	ROUND FLANGE 5"
3	TMC-CC140-ID-4	4	4	4	1.5	V150N	121063	240 MS (H-125)	117186	ROUND FLANGE 5"
4	TMC-CC175-ID-4	4	4	4	1.5	V150N	121063	240 MS (H-125)	117186	ROUND FLANGE 5"
5	TMC-CC220-ID-4	4	6	4	1.5	V150N	121063	240 MS (H-174)	117185	ROUND FLANGE 6"
6	TMC-CC260-ID-4	4	6	4	1.5	V150N	121063	240 MS (H-174)	117185	ROUND FLANGE 6"
7	TMC-CC300-ID-4	4	10	4	1.5	V150N	121063	240 MS (H-174)	117185	ROUND FLANGE 6"
8	TMC-CC340-ID-4	4	10	4	1.5	V150N	121063	240 MS (H-174)	117185	ROUND FLANGE 6"

DIMENSION DRAWING



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TKC Series

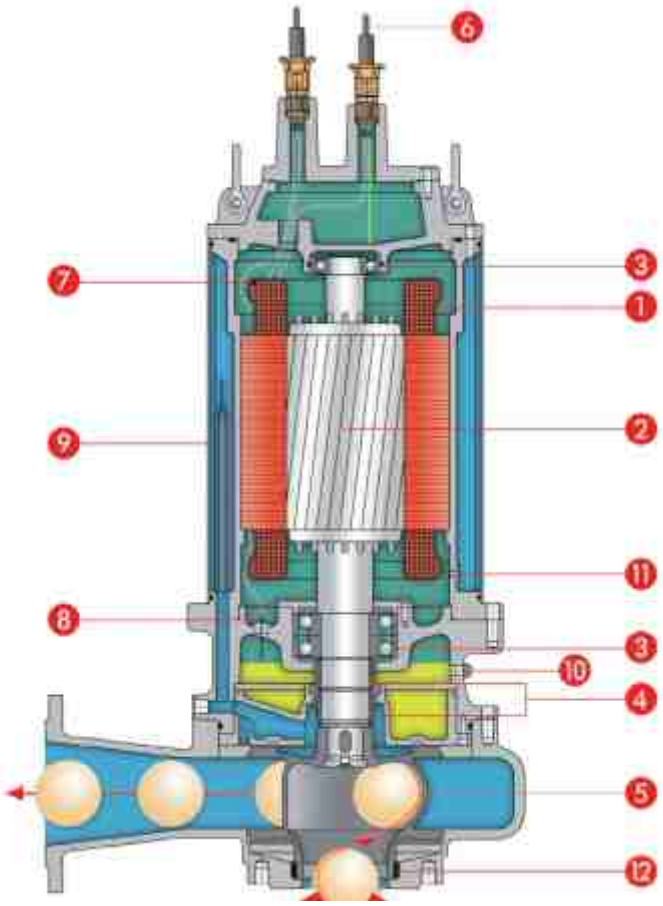
The TKC Series submersible sewage pumps are multi vane design used to improve performance with larger solid passage upto 6½" in diameter. The closed multi-vane impeller for solids-laden and muddy fluids offers the highest efficiency for waste water. These pumps are suitable for pumping municipal waste water, Industrial waste water, Land fill waste water, Rain water and Activated sludge etc.

Operating parameters	
Max Flow	upto 2520m³/hr
Max Head	upto 66.5m
Impeller Type	Multi-Channel Impeller
Outlet Size	150 - 400 mm
Max Solid Size	upto 165mm
Maximum Liquid Temperature	upto 40°C
Service	S1 Duty
No. of Starts / Per Hour	20
Max. immersion depth	20m
pH range	6 to 12
Liquid Viscosity	1 mm²/s
Liquid Density	1kg/dm³
Max. Noise level	≤ 70dB

Specifications	
Power Range	10.5 to 185kW
Power Supply	380-415V - Three Phase, 50Hz, AC.
Ingress Protection	IP68
Motor	Dry Type Induction motor
Speed	1450 / 960 / 720 rpm
Class of Insulation	H
Moisture sensor	# Available
Thermal Overload Protector	* Available
Starting Method	Three Phase - DOL & SD
Shaft Seal	Single / Double Mechanical seal
Mechanical Seal Face Combination	Silicon Carbide / Silicon Carbide Silicon Carbide / Silicon Carbide
Bearing Type	Shielded prelubricated bearing
Cable Type	HO7RNF
Standard Cable Length	10m

Material of Construction	
Casing	Cast iron EN-GJL-260
Impeller	Cast iron EN-GJL-260
Motor Housing	Cast iron EN-GJL-260
Shaft	Stainless Steel X30 Cr13 (AISI 420)
Fasteners	Stainless Steel A2 (AISI 304)

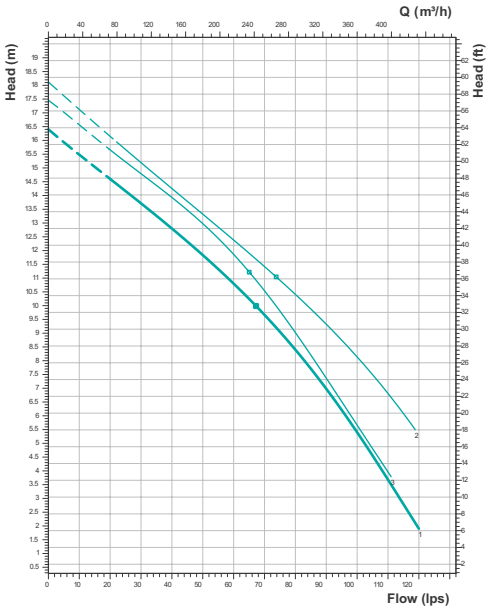
Cross Section Drawing



1. Fully submersible pressure tight electric motor
2. Rotor Shaft
3. Bearing
4. Mechanical seal
5. Closed multi-channel impeller
6. Cable
7. Thermal over load protector
8. Oil chamber probe
9. Cooling jacket (optional)
10. Oil inspection plug
11. Air plug hole for the motor water tightness control
12. Bronze wear ring

* The above diagram is only for illustration purpose the actual construction of the product may vary according to the model.

PERFORMANCE CURVES



PERFORMANCE TABLE

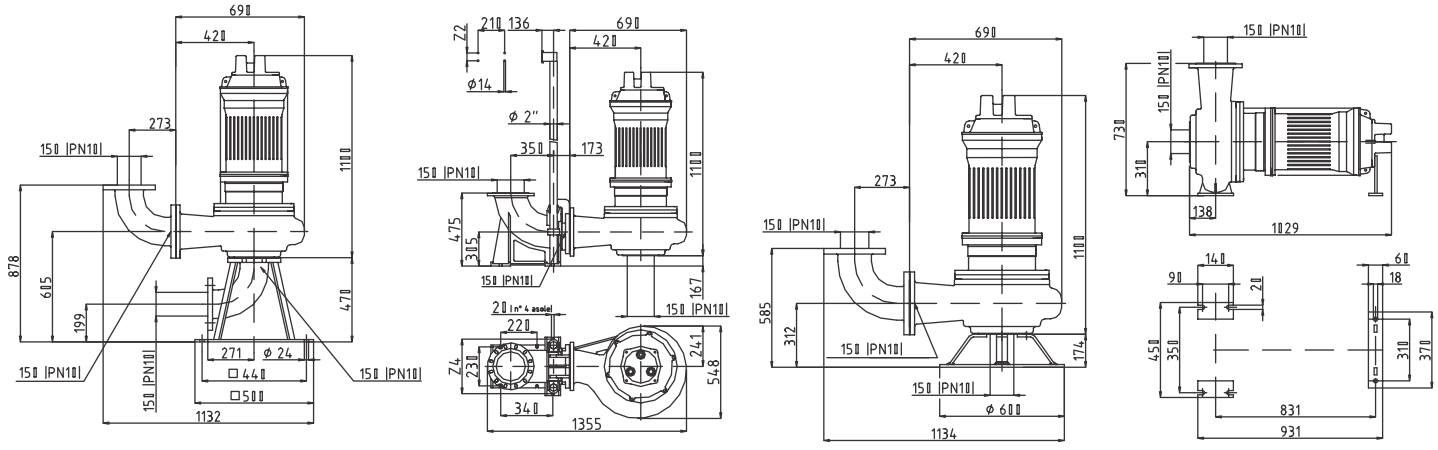
Nr	Model - Type	P1 kW	P2 kW	Volt	Amp	rpm	Delivery size (mm)	Max.Solid size (mm)	Auto coupling V	Weight (kg)	l/sec	0	20	40	60	80	100	120	140	150
											m^3/h	0	72	144	216	288	360	432	504	540
1	TKC-CL105-ID-6 *#	14.5	10.5	400	25	960	150	80	150N	310	Head in m	18.1	14.6	12.8	10.8	8.4	5.4	1.9		
2	TKC-CL115-ID-6 *#	15.5	11.5	400	27	960	150	80	150N	310		18	16.2	14.3	12.4	10.4	8.1	5.3		
3	TKC-CL135-ID-6 *#	16	13.5	400	29.4	960	150	80	150N	310		17.5	15.7	13.9	11.9	9.0	5.7			

* Inbuilt with TOP / # Moisture sensor available

IDENTIFICATION CODE & POWER CABLE SIZE

No	Model - Type	Power Cable		Control Cable		Auto coupling Model	Auto coupling Code	Base Frame Model	Base Frame Code	Pump Outlet flange type (inch)
		No. of Core	Size in Sq.mm	No. of Core	Size in Sq.mm					
1	TKC-CL105-ID-6	4	2.5	4	1.5	V150N	121063	240 MS (H-125)	117185	ROUND FLANGE 6"
2	TKC-CL115-ID-6	4	6	4	1.5	V150N	121063	240 MS (H-125)	117185	ROUND FLANGE 6"
3	TKC-CL135-ID-6	4	6	4	1.5	V150N	121063	240 MS (H-125)	117185	ROUND FLANGE 6"

DIMENSION DRAWING



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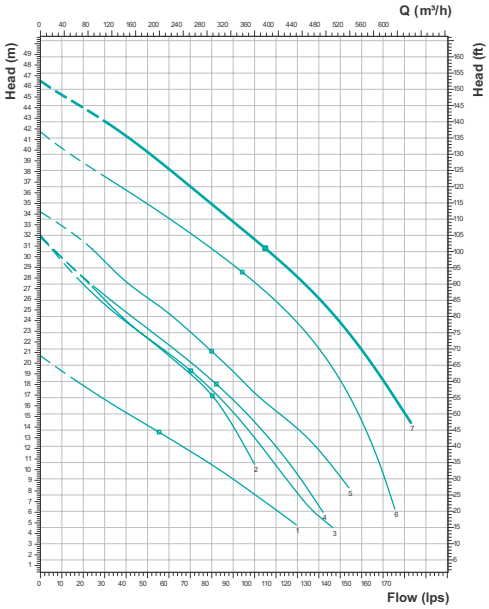
TKC Series

PERFORMANCE CURVES



PERFORMANCE TABLE

Nr	Model - Type	P1 kW	P2 kW	Volt	Amp	rpm	Delivery size (mm)	Max.Solid size (mm)	l/sec	0	20	40	60	80	100	120	140	150	160
									m³/h	0	72	144	216	288	360	432	504	540	576
1	TKC-CL140-ID-4 *#	17	14	400	30	1450	150	80		20.7	17.9	15.4	13	10.5	7.7				
2	TKC-CL190-ID-4 *#	22	19	400	45	1450	150	80		31.8	28	24	20.7	17	10.5				
3	TKC-CL260-ID-4 *#	30	26	400	48	1450	150	80	Head	32	27.4	23.9	20.9	17.5	13	7.8			
4	TKC-CL300-ID-4 *#	33	30	400	63	1450	150	80	in m	32	28.1	24.8	21.7	18.4	14.5	9.6			
5	TKC-CL340-ID-4 *	39	34	400	68	1450	150	80		34.3	31.1	27.9	24.6	21.1	17.4	13.6			
6	TKC-CL450-ID-4 *#	48	45	400	75	1450	150	80		41.7	38.8	36.3	33.6	30.8	27.6	23.8	18.4	14.6	9.7
7	TKC-CL520-ID-4 *#	56	52	400	88	1450	150	80		46.5	44	41.3	38.2	34.9	31.6	28.1	23.8	21.3	18.4

* Inbuilt with TOP / # Moisture sensor available

IDENTIFICATION CODE & POWER CABLE SIZE

No	Model - Type	Power Cable		Control Cable		Auto coupling Model	Auto coupling Code	Base Frame Model	Base Frame Code	Pump Outlet flange type (inch)
		No. of Core	Size in Sq.mm	No. of Core	Size in Sq.mm					
1	TKC-CL140-ID-4	4	4	4	1.5	V150N	121063	240 MS (H-125)	117186	ROUND FLANGE 6"
2	TKC-CL190-ID-4	4	4	4	1.5	V150N	121063	240 MS (H-174)	117185	ROUND FLANGE 6"
3	TKC-CL260-ID-4	4	6	4	1.5	V150N	121063	240 MS (H-174)	117185	ROUND FLANGE 6"
4	TKC-CL300-ID-4	4	10	4	1.5	V150N	121063	240 MS (H-174)	117185	ROUND FLANGE 6"
5	TKC-CL340-ID-4	4	10	4	1.5	V150N	121063	240 MS (H-174)	117185	ROUND FLANGE 6"
6	TKC-CL450-ID-4	4	10	4	1.5	V150N	121063	240 MS (H-174)	117185	ROUND FLANGE 6"
7	TKC-CL520-ID-4	4	10	4	1.5	V150N	121063	240 MS (H-174)	117185	ROUND FLANGE 6"

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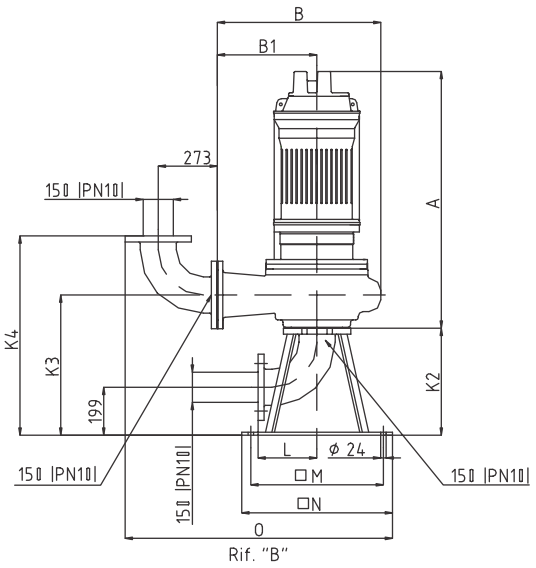
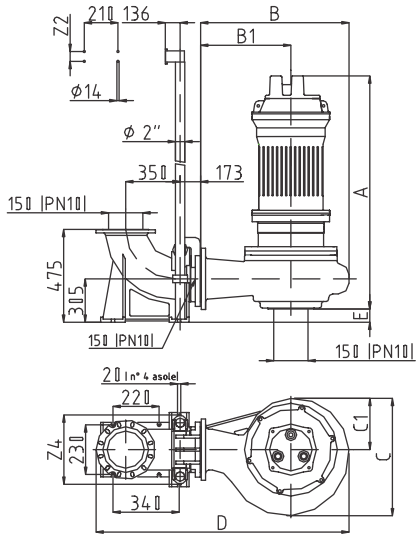
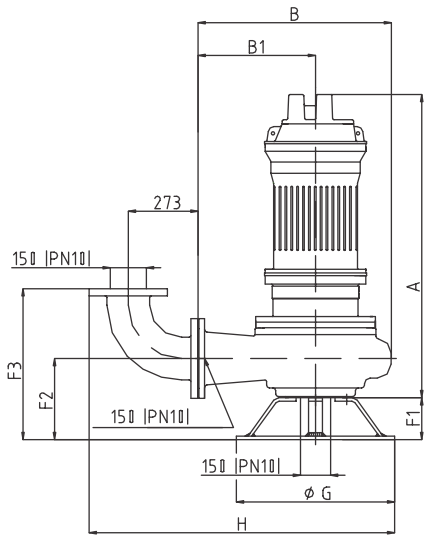
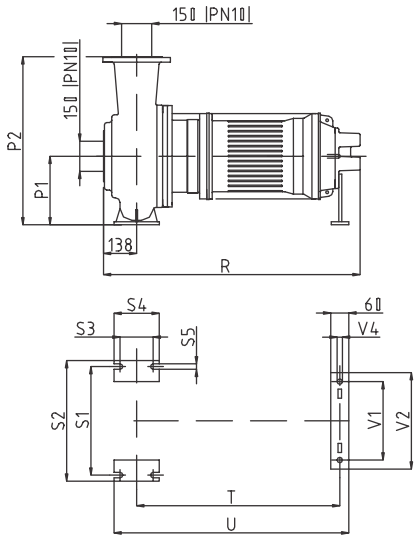
DIMENSION DRAWING









DIMENSION & WEIGHT DATA																																		
Nr	Model - Type	A max	B	B1	C	C1	D	E	F1	F2	F3	G	H	O	P1	K2	K3	K4	L	M	N	P2	S1	S2	S3	S4	S5	T max	U max	V1	V2	V4	Auto coupling V	Weight (kg)
1	TKC-CL140-ID-4	820	608	370	468	209	1273	170	125	260	533	450	1024	310	470	605	878	271	440	500	250	620	350	410	120	160	18	902	1012	310	370	18	150N	218
2	TKC-CL190-ID-4	1100	690	420	548	241	1355	167	174	260	447	600	1106	250	470	605	878	271	440	500	310	730	350	450	90	140	20	1125	1225	360	420	20	150N	320
3	TKC-CL260-ID-4	864	755	455	596	264	1429	755	455	596	585	264	1429	1123	310	470	610	883	271	440	500	765	350	450	90	140	20	1125	1135	360	420	20	150N	410
4	TKC-CL300-ID-4	1062	755	455	596	264	1429	755	455	596	585	264	1429	1123	310	470	610	883	271	440	500	765	350	450	90	140	20	1125	1135	360	420	20	150N	420
5	TKC-CL340-ID-4	1062	755	455	596	264	1429	755	455	596	585	264	1429	1123	310	470	610	883	271	440	500	765	350	450	90	140	20	1125	1135	360	420	20	150N	430
6	TKC-CL450-ID-4	1208	755	455	596	264	1429	165	174	312	585	600	1173	1123	310	500	640	913	283	560	650	760	450	550	120	160	23	1144	1254	360	420	23	150N	560
7	TKC-CL520-ID-4	1208	755	455	596	264	1429	165	174	312	585	600	1173	1123	310	500	640	913	283	560	650	760	450	550	120	160	23	1144	1254	360	420	23	150N	615

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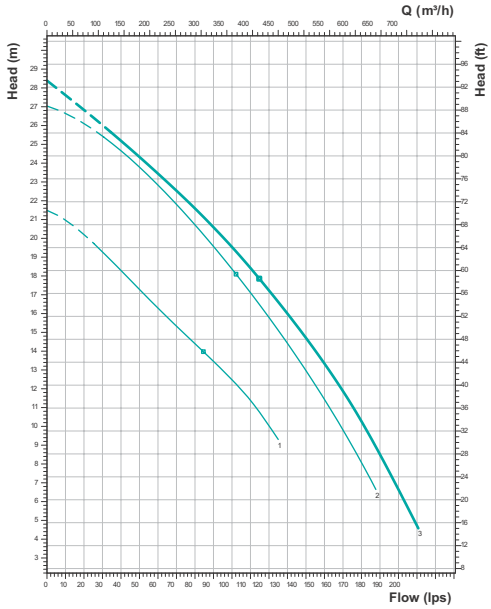
TKC Series

PERFORMANCE CURVES



PERFORMANCE TABLE

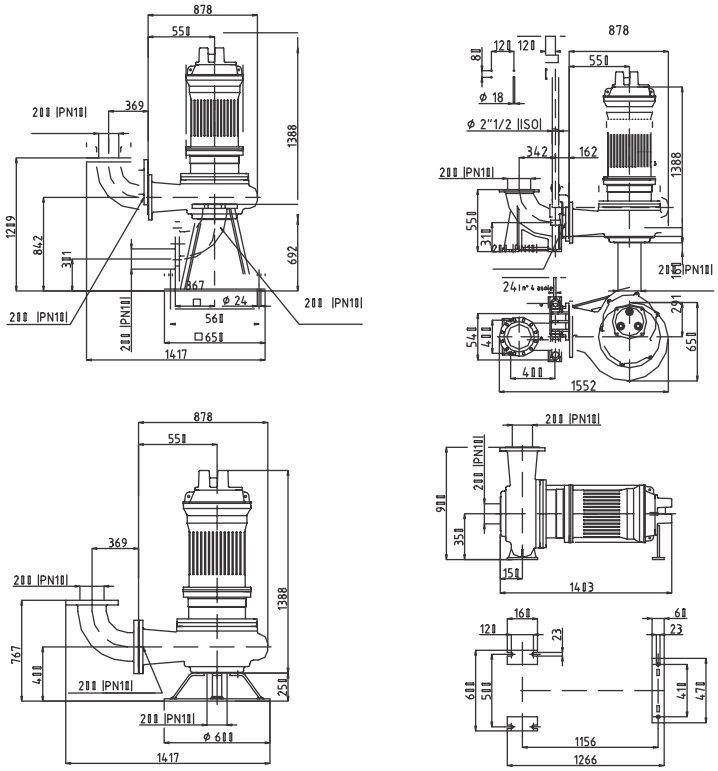
Nr	Model - Type	P1 kW	P2 kW	Volt	Amp	rpm	Delivery size (mm)	Max.Solid size (mm)	Auto coupling V	Weight (kg)	l/sec	0	10	20	40	60	80	100	120	140	160	180	200
											m³/h	0	36	72	144	216	288	360	432	504	576	648	720
1	TKC-CL170-JD-6*#❑	19.5	17	400	36	960	200	100	200N	515	Head in m	21.5	21	20.2	18.3	16.3	14.4	12.5	10.1				
2	TKC-CL250-JD-6*#❑	29.3	25	400	55.5	960	200	100	200N	545		27	26.6	26.1	24.7	22.8	20.7	18.4	15.8	13	11.4		
3	TKC-CL340-JD-6*#	36.9	34	400	67.5	960	200	100	200N	758		28.4	27.6	26.8	25.2	23.5	21.6	19.5	17.3	14.7	11.9	8.6	4.7

* Inbuilt with TOP / # Moisture sensor available / ❑ Dry Pit Model

IDENTIFICATION CODE & POWER CABLE SIZE

No	Model - Type	Power Cable		Control Cable		Auto coupling Model	Auto coupling Code	Base Frame Model	Base Frame Code	Pump Outlet flange type (inch)
		No. of Core	Size in Sq.mm	No. of Core	Size in Sq.mm					
1	TKC-CL170-JD-6	4	10	4	1.5	200/200	173439	295 MS	117187	ROUND FLANGE 8"
2	TKC-CL250-JD-6	4	10	4	1.5	200/200	173439	295 MS	117187	ROUND FLANGE 8"
3	TKC-CL340-JD-6	4	10	4	1.5	200/200	173439	295 MS	117187	ROUND FLANGE 8"

DIMENSION DRAWING



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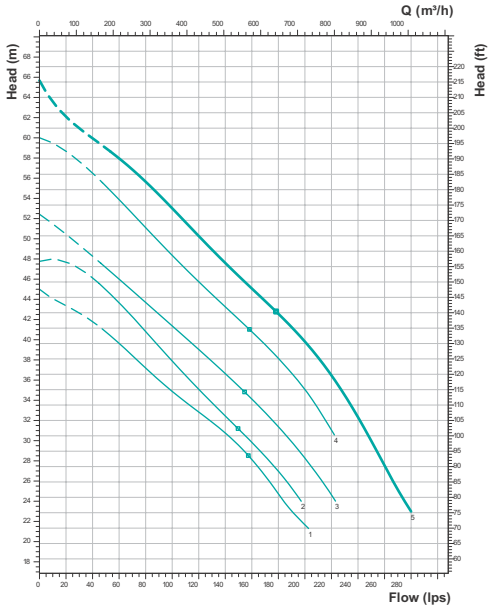
PERFORMANCE CURVES



PERFORMANCE TABLE

Nr	Model - Type	P1 kW	P2 kW	Volt	Amp	rpm	Delivery size (mm)	Max.Solid size (mm)	l/sec	0	10	20	40	60	80	100	120	140	160	180	200	220	240	260	280
									m³/h	0	0	72	144	216	288	360	432	504	576	648	720	792	864	936	1008
1	TKC-CL680-JD-4 *#	74.7	68	400	130	1450	200	100	Head in m	45	44.1	43.4	41.8	39.6	37.2	34.9	32.8	30.8	28.1	24.8	21.6				
2	TKC-CL790-JD-4 *#	85	79	400	141	1450	200	100		47.8	48	47.7	46.1	43.7	40.8	37.9	35.1	32.4	29.8	27					
3	TKC-CL900-JD-4 *#	99	90	400	164	1450	200	100		52.4	51.5	50.5	48.3	46	43.7	41.4	39	36.6	34.1	31.4	28.3	24.6			
4	TKC-CLA05-JD-4 *#	114	105	400	188	1450	200	100		60	59.5	58.7	56.5	53.9	51.1	48.4	45.7	43.3	40.8	38.2	35.1	31.1			
5	TKC-CLA27-JD-4 *#	138	127	400	231	1450	200	100		65.7	63.6	62.1	60	58	55.7	53	50.3	47.6	45.1	42.6	39.8	36.5	32.3		

* Inbuilt with TOP / # Moisture sensor available

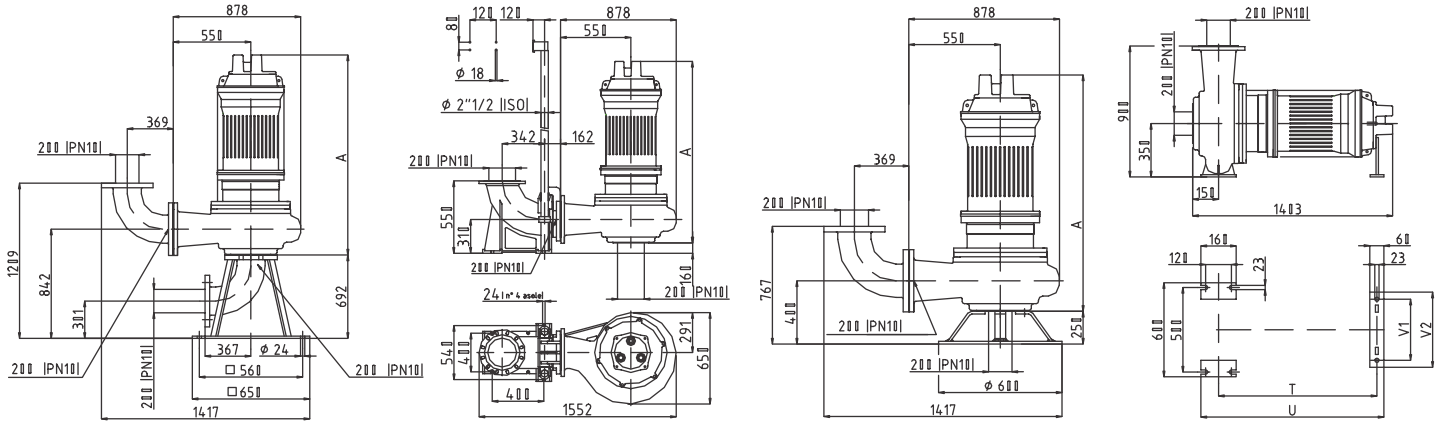
DIMENSION & WEIGHT DATA

Nr	Model - Type	A max	R max	T max	U max	V1	V2	Auto coupling V	Weight (kg)
1	TKC-CL680-JD-4	1158	1533	1286	1396	410	470	200N	662
2	TKC-CL790-JD-4	1158	1533	1286	1396	410	470	200N	753
3	TKC-CL900-JD-4	1158	1533	1286	1396	410	470	200N	930
4	TKC-CLA05-JD-4	1158	1533	1286	1396	410	470	200N	1000
5	TKC-CLA27-JD-4	1673	1388	1440	1550	508	568	200N	1030

IDENTIFICATION CODE & POWER CABLE SIZE

No	Model - Type	Power Cable		Control Cable		Auto coupling Model	Auto coupling Code	Base Frame Model	Base Frame Code	Pump Outlet flange type (inch)
		No. of Core	Size in Sq.mm	No. of Core	Size in Sq.mm					
1	TKC-CL680-JD-4	4	25	4	1.5	200/200	173439	295 MS	117187	ROUND FLANGE 8"
2	TKC-CL790-JD-4	4	25	4	1.5	200/200	173439	295 MS	117187	ROUND FLANGE 8"
3	TKC-CL900-JD-4	4	25	4	1.5	200/200	173439	295 MS	117187	ROUND FLANGE 8"
4	TKC-CLA05-JD-4	4	25	4	1.5	200/200	173439	295 MS	117187	ROUND FLANGE 8"
5	TKC-CLA27-JD-4	4	25	4	1.5	200/200	173439	295 MS	117187	ROUND FLANGE 8"

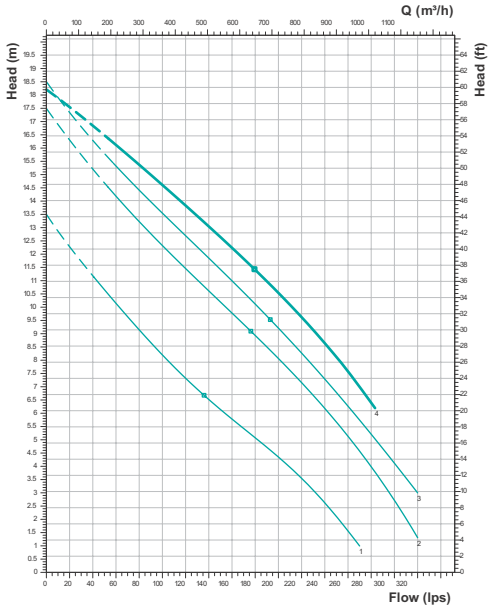
DIMENSION DRAWING



* In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

TKC Series

PERFORMANCE CURVES



PERFORMANCE TABLE

Nr	Model - Type	P1 kW	P2 kW	Volt	Amp	rpm	Delivery size (mm)	Max.Solid size (mm)	l/sec	0	12	20	40	60	80	100	120	140	160	180	200	240	280	320
									m³/h	0	43	72	144	216	288	360	432	504	576	648	720	864	1008	1152
1	TKC-CL170-KD-6 *#	19.5	17	400	36.4	960	250	130	Head in m	13.5	12.8	12.3	11.2	10.2	9.1	8.2	7.3	6.5	5.8	5.1	4.3	2.6		
2	TKC-CL250-KD-6 *	29.3	25	400	55.5	960	250	130		17.5	16.8	16.3	15.2	14.2	13.2	12.3	11.5	10.6	9.8	8.9	8.1	6.2	4.1	
3	TKC-CL330-KD-6 *#	36.9	33	400	67.5	960	250	130		18.5	17.8	17.3	16.3	15.3	14.4	13.5	12.7	11.9	11	10.1	9.2	7.3	5.2	1.3
4	TKC-CL400-KD-6 *#	45	40	400	82	960	250	130		18.2	17.8	17.6	16.9	16.1	15.4	14.6	13.8	13.1	12.2	11.4	10.5	8.6	6.4	3

* Inbuilt with TOP / # Moisture sensor available

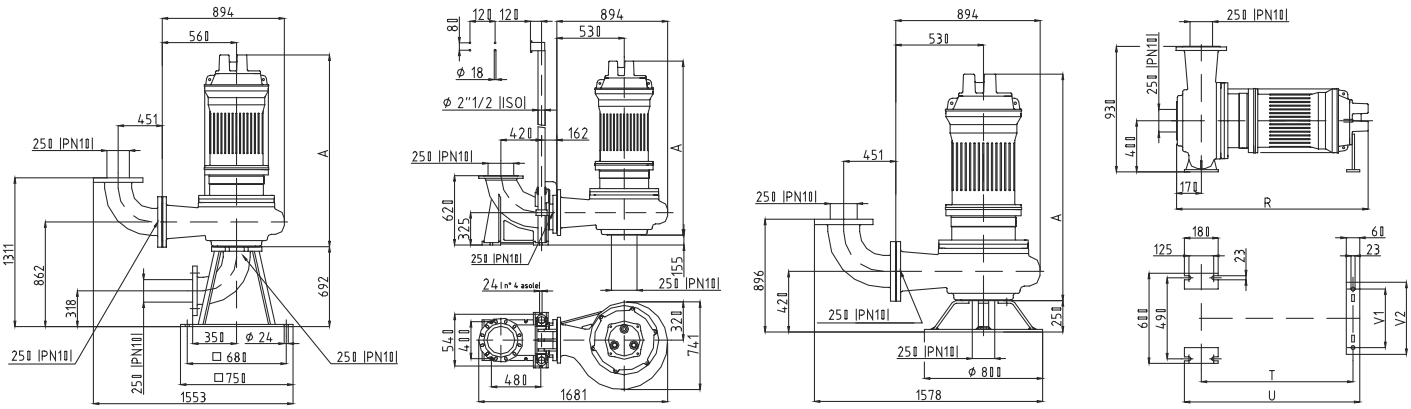
DIMENSION & WEIGHT DATA

Nr	Model - Type	A max	R max	T max	U max	V1	V2	Auto coupling V	Weight (kg)
1	TKC-CL170-KD-6	1363	1375	1128	1248	360	420	250N	552
2	TKC-CL250-KD-6	1363	1375	1128	1248	360	420	250N	617
3	TKC-CL330-KD-6	1584	1563	1296	1416	410	470	250N	702
4	TKC-CL400-KD-6	1584	1563	1296	1416	410	470	250N	735

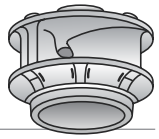
IDENTIFICATION CODE & POWER CABLE SIZE

No	Model - Type	Power Cable		Control Cable		Auto coupling Model	Auto coupling Code	Base Frame Model	Base Frame Code	Pump Outlet flange type (inch)
		No. of Core	Size in Sq.mm	No. of Core	Size in Sq.mm					
1	TKC-CL170-KD-6	4	10	4	1.5	250/250	173442	350 MS	117209	ROUND FLANGE 10"
2	TKC-CL250-KD-6	4	10	4	1.5	250/250	173442	350 MS	117209	ROUND FLANGE 10"
3	TKC-CL330-KD-6	4	10	4	1.5	250/250	173442	350 MS	117209	ROUND FLANGE 10"
4	TKC-CL400-KD-6	4	10	4	1.5	250/250	173442	350 MS	117209	ROUND FLANGE 10"

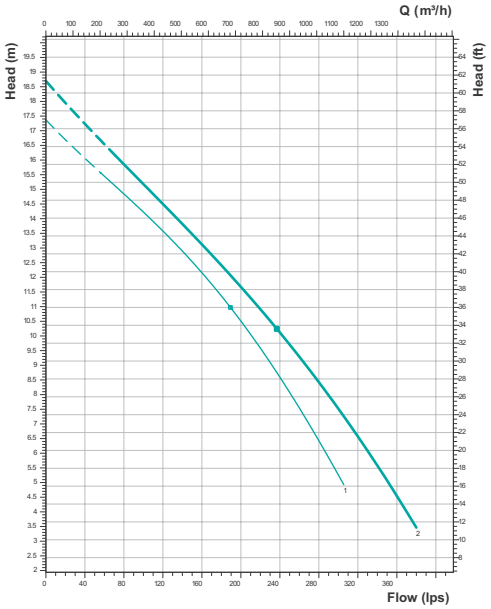
DIMENSION DRAWING



Performance curve tolerances are as per HI : 14.6 / ISO : 9906, Grade - 2B.
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.



PERFORMANCE CURVES



PERFORMANCE TABLE

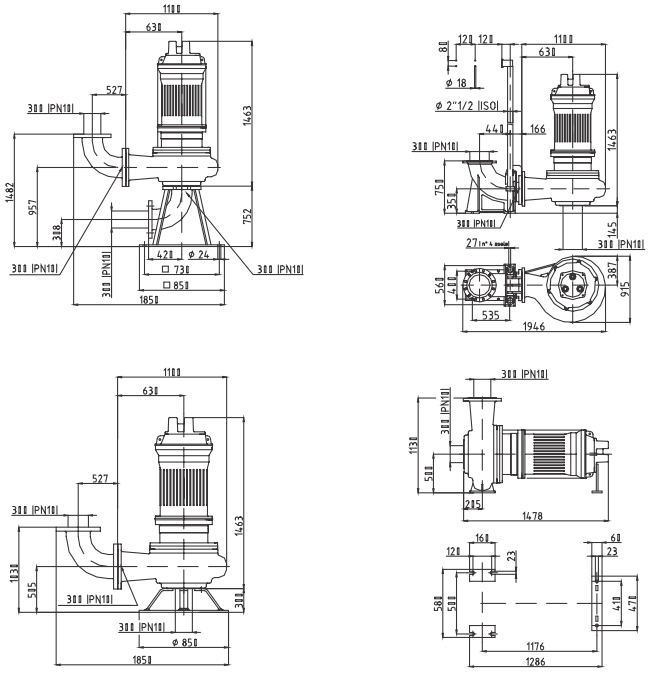
Nr	Model - Type	P1 kW	P2 kW	Volt	Amp	rpm	Delivery size (mm)	Max.Solid size (mm)	Auto coupling V	Weight (kg)	l/sec	0	40	60	80	100	120	150	160	200	240	250	280	300	320	350	360	380
											m³/h	0	144	216	288	360	432	540	576	720	864	900	1008	1080	1152	1260	1296	1368
1	TKC-CL250-LD-8 *#	28	25	400	55	720	300	150	300N	895	Head in m	17.4	16.1	15.5	14.8	14.2	13.6	12.5	12.2	10.5	8.6	8.1	6.4	5.3	3.9			
2	TKC-CL310-LD-8 *#	35	31	400	67	720	300	150	300N	918		18.7	17.2	16.5	15.9	15.2	14.5	13.5	13.1	11.7	10.1	9.7	8.4	7.5	6.6	5.1	4.5	3.5

* Inbuilt with TOP / # Moisture sensor available.

IDENTIFICATION CODE & POWER CABLE SIZE

No	Model - Type	Power Cable		Control Cable		Auto coupling Model	Auto coupling Code	Base Frame Model	Base Frame Code	Pump Outlet flange type (inch)
		No. of Core	Size in Sq.mm	No. of Core	Size in Sq.mm					
1	TKC-CL250-LD-8	4	10	4	1.5	300/300	173445	400 MS	117210	ROUND FLANGE 12"
2	TKC-CL310-LD-8	4	10	4	1.5	300/300	173445	400 MS	117210	ROUND FLANGE 12"

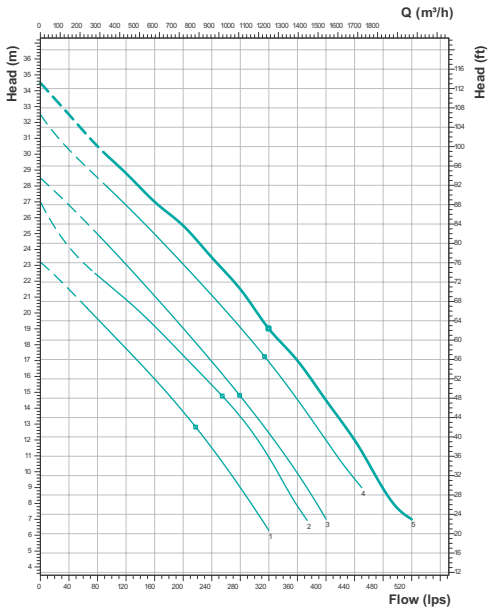
DIMENSION DRAWING



Performance curve tolerances are as per HI : 14.6 / ISO : 9906, Grade - 2B.
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

TKC Series

PERFORMANCE CURVES



PERFORMANCE TABLE

Nr	Model - Type	P1 kW	P2 kW	Volt	Amp	rpm	Delivery size (mm)	Max.Solid size (mm)	l/sec	0	40	60	80	100	120	150	160	200	240	250	280	300	320	350	360	380	400	450	500
									m³/h	0	144	216	288	360	432	540	576	720	864	900	1008	1080	1152	1260	1296	1368	1440	1620	1800
1	TKC-CL400-LD-6 *#	45	40	400	82	960	300	150	Head in m	23.2	21.5	20.6	19.6	18.7	17.8	16.3	15.8	13.8	11.5	10.9	9	7.7	6.3						
2	TKC-CL500-LD-6 *#❑	55	50	400	100	960	300	150		27	24.2	23.2	22.4	21.6	20.9	19.6	19.2	17.3	15.5	15	13.5	12.3	10.9	8.6	7.8				
3	TKC-CL580-LD-6 *#	64	58	400	118	960	300	150		28.5	26.8	25.9	25	24	23.1	21.6	21.1	19	16.9	16.4	14.8	13.6	12.4	10.6	9.9	8.5	7		
4	TKC-CL690-LD-6 *#	75	69	400	138	960	300	150		32.5	30.3	29.4	28.5	27.7	26.8	25.4	25	23.1	21.1	20.6	19.1	18	16.9	15.2	14.6	13.3	12	9	
5	TKC-CL820-LD-6 *#	90	82	400	166	960	300	150		34.5	32.5	31.5	30.5	29.6	28.8	27.4	27	25.5	23.5	23	21.5	20.3	19	17.5	17	15.8	14.5	11.3	7.7

* Inbuilt with TOP / # Moisture sensor available / ❑ Dry Pit Model

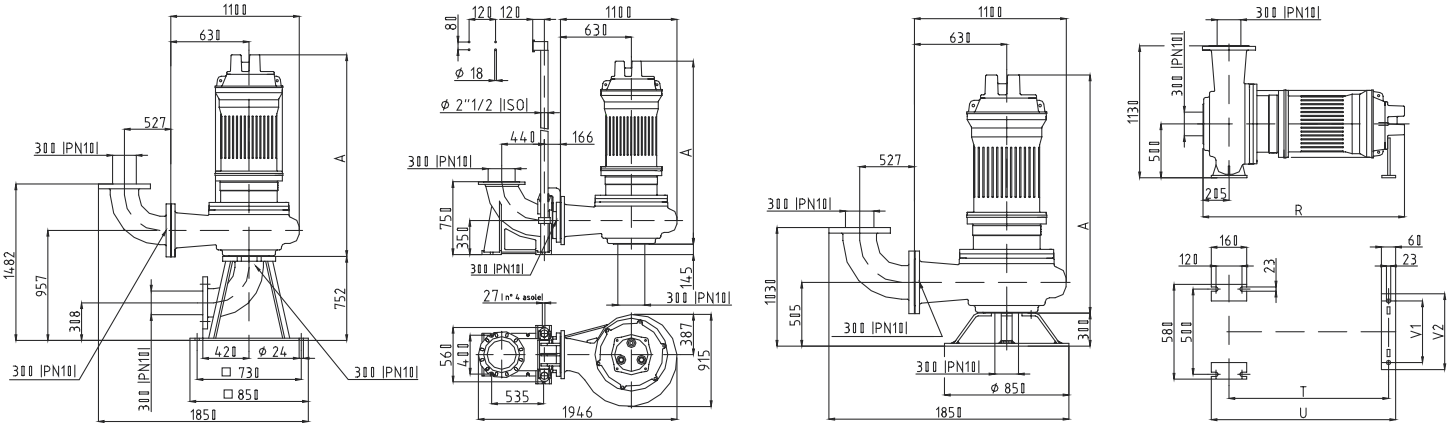
DIMENSION & WEIGHT DATA

Nr	Model	A max	R max	T max	U max	V1	V2	Auto coupling V	Weight (kg)
1	TKC-CL400-LD-6	1593	1608	1306	1416	410	470	300N	910
2	TKC-CL500-LD-6	1593	1608	1306	1416	410	470	300N	975
3	TKC-CL580-LD-6	1593	1608	1306	1416	410	470	300N	1040
4	TKC-CL690-LD-6	1773	1788	1486	1596	508	568	300N	1125
5	TKC-CL820-LD-6	1773	1788	1486	1596	508	568	300N	1198

IDENTIFICATION CODE & POWER CABLE SIZE

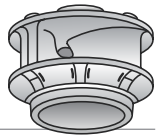
No	Model - Type	Power Cable		Control Cable		Auto coupling Model	Auto coupling Code	Base Frame Model	Base Frame Code	Pump Outlet flange type (inch)
		No. of Core	Size in Sq.mm	No. of Core	Size in Sq.mm					
1	TKC-CL400-LD-6	4	10	4	1.5	300/300	173445	400 MS	117210	ROUND FLANGE 12"
2	TKC-CL500-LD-6	4	16	4	1.5	300/300	173445	400 MS	117210	ROUND FLANGE 12"
3	TKC-CL580-LD-6	4	16	4	1.5	300/300	173445	400 MS	117210	ROUND FLANGE 12"
4	TKC-CL690-LD-6	4	16	4	1.5	300/300	173445	400 MS	117210	ROUND FLANGE 12"
5	TKC-CL820-LD-6	4	25	4	1.5	300/300	173445	400 MS	117210	ROUND FLANGE 12"

DIMENSION DRAWING

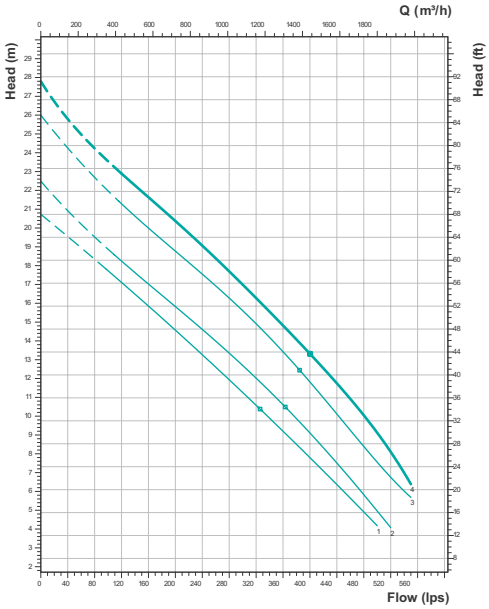


Performance curve tolerances are as per HI : 14.6 / ISO : 9906, Grade - 2B.
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

TKC Series



PERFORMANCE CURVES



PERFORMANCE TABLE

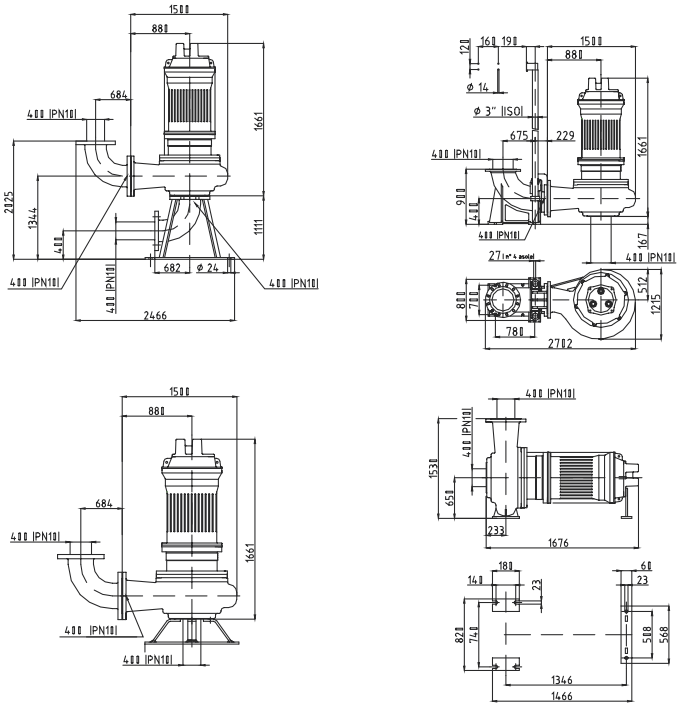
Nr	Model - Type	P1 kW	P2 kW	Volt	Amp	rpm	Delivery size (mm)	Max.Solid size (mm)	Auto coupling V	Weight (kg)	l/sec	0	80	100	150	200	250	300	350	400	450	500	550	600
											m³/h	0	288	360	540	720	900	1080	1260	1440	1620	1800	1980	2160
1	TKC-CL450-ND-8 *#❑	50	45	400	94	720	400	165	400N	1560	Head in m	20.7	18.3	17.7	16.2	14.6	12.9	11.3	9.5	7.8	6	4.2		
2	TKC-CL530-ND-8 *#	58	53	400	110	720	400	165	400N	1590		22.5	19.5	18.9	17.3	15.8	14.3	12.7	11	9.1	7.1	5		
3	TKC-CL630-ND-8 *#	70	63	400	130	720	400	165	400N	1630		26	22.7	22	20.3	18.8	17.2	15.6	13.8	11.8	9.7	7.6	5.7	
4	TKC-CL720-ND-8 *#❑	79	72	400	148	720	400	165	400N	1670		27.8	24.2	23.5	22	20.4	18.7	17	15.2	13.3	11.3	9.1	6.4	

* Inbuilt with TOP / # Moisture sensor available / ❑ Dry Pit Model

IDENTIFICATION CODE & POWER CABLE SIZE

No	Model - Type	Power Cable		Control Cable		Auto coupling Model	Auto coupling Code	Base Frame Model	Base Frame Code	Pump Outlet flange type (inch)
		No. of Core	Size in Sq.mm	No. of Core	Size in Sq.mm					
1	TKC-CL450-ND-8	4	25	4	1.5	400/400	173443	515 MS	117211	ROUND FLANGE 16"
2	TKC-CL530-ND-8	4	25	4	1.5	400/400	173443	515 MS	117211	ROUND FLANGE 16"
3	TKC-CL630-ND-8	4	25	4	1.5	400/400	173443	515 MS	117211	ROUND FLANGE 16"
4	TKC-CL720-ND-8	4	25	4	1.5	400/400	173443	515 MS	117211	ROUND FLANGE 16"

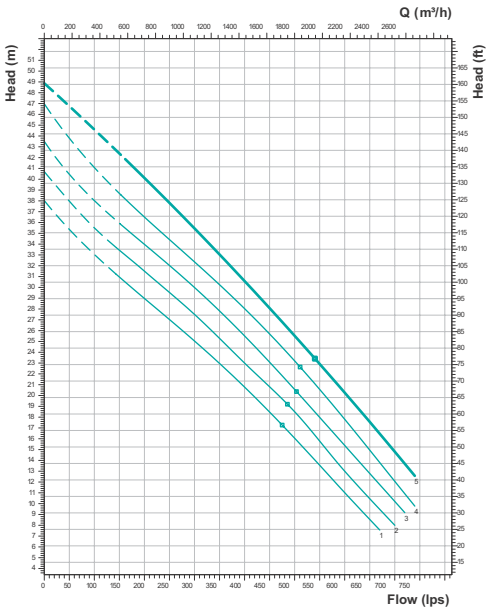
DIMENSION DRAWING



Performance curve tolerances are as per HI : 14.6 / ISO : 9906, Grade - 2B.
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

TKC Series

PERFORMANCE CURVES



PERFORMANCE TABLE

Nr	Modello - Type	P1 kW	P2 kW	Volt	Amp	Giri rpm	DN	Ø mm	l/sec	0	80	100	150	200	250	300	350	400	450	500	550	600	700
									m³/h	0	288	360	540	720	900	1080	1260	1440	1620	1800	1980	2160	2520
1	TKC-CLA12-ND-6	123	112	400	227	960	400	165	H m	40.7	33.9	33.1	31	29	27	25	23	20.8	18.5	16.1	13.6	11	
2	TKC-CLA32-ND-6	141	132	400	241	960	400	165		41	36.4	35.5	33.4	31.5	29.5	27.5	25.3	23	20.8	18.5	15.8	13	8
3	TKC-CLA60-ND-6	169	160	400	287	960	400	165		43.5	38.9	38	35.9	34	32	30	27.8	25.5	23.1	20.6	18	15.4	10.2
4	TKC-CLA69-ND-6	169	160	400	287	960	400	165		47	42.1	41.1	38.7	36.5	34.4	32.4	30.2	28	25.7	23.2	20.6	17.8	12.1
5	TKC-CLA85-ND-6	195	185	400	337	960	400	165		48.9	45.5	44.6	42.4	40.1	37.8	35.5	33	30.6	28.1	25.5	22.9	20.3	14.8

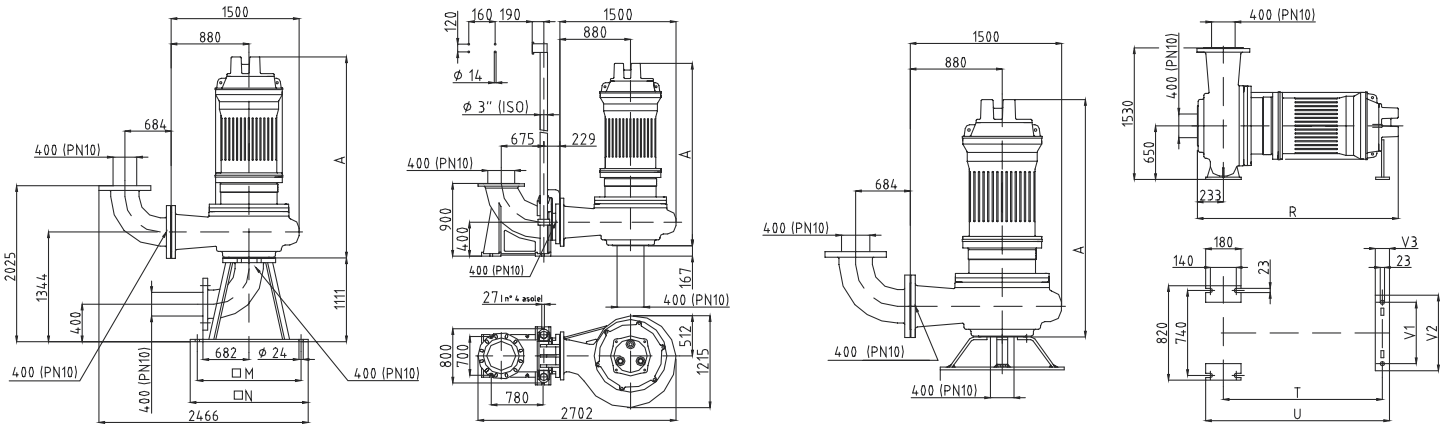
DIMENSION & WEIGHT DATA

Nr	Modello - Type	A max	R max	T max	U max	V1	V2	V	KG
1	TKC-CLA12-ND-6	1811	1826	1496	1616	508	568	400N	1710
2	TKC-CLA32-ND-6	2674	2073	1801	1941	740	800	400N	2230
3	TKC-CLA60-ND-6	2674	2073	1801	1941	740	800	400N	2260
4	TKC-CLA69-ND-6	2674	2073	1801	1941	740	800	400N	2265
5	TKC-CLA85-ND-6	2894	2293	2021	2161	740	800	400N	2465

IDENTIFICATION CODE & POWER CABLE SIZE

No	Model - Type	Power Cable		Control Cable		Auto coupling Model	Auto coupling Code	Base Frame Model	Base Frame Code	Pump Outlet flange type (inch)
		No. of Core	Size in Sq.mm	No. of Core	Size in Sq.mm					
1	TKC-CLA12-ND-6									
2	TKC-CLA32-ND-6	4	25	4	1.5	400/400	173443	515 MS	117211	ROUND FLANGE 16"
3	TKC-CLA60-ND-6	4	25	4	1.5	400/400	173443	515 MS	117211	ROUND FLANGE 16"
4	TKC-CLA69-ND-6	-	-	-	-	-	-	-	-	-
5	TKC-CLA85-ND-6	-	-	-	-	-	-	-	-	-

DIMENSION DRAWING



Performance curve tolerances are as per HI : 14.6 / ISO : 9906, Grade - 2B.
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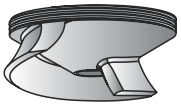


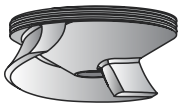
TMA Series

TMA Series submersible sewage pumps are supplied with semi open single channel for handling fibrous material without clogging. It can handle the solids upto 1½"in diameter. These pumps are suitable for pumping municipal wastewater, Industrial wastewater, land fill wastewater, rain water and activated sludge.

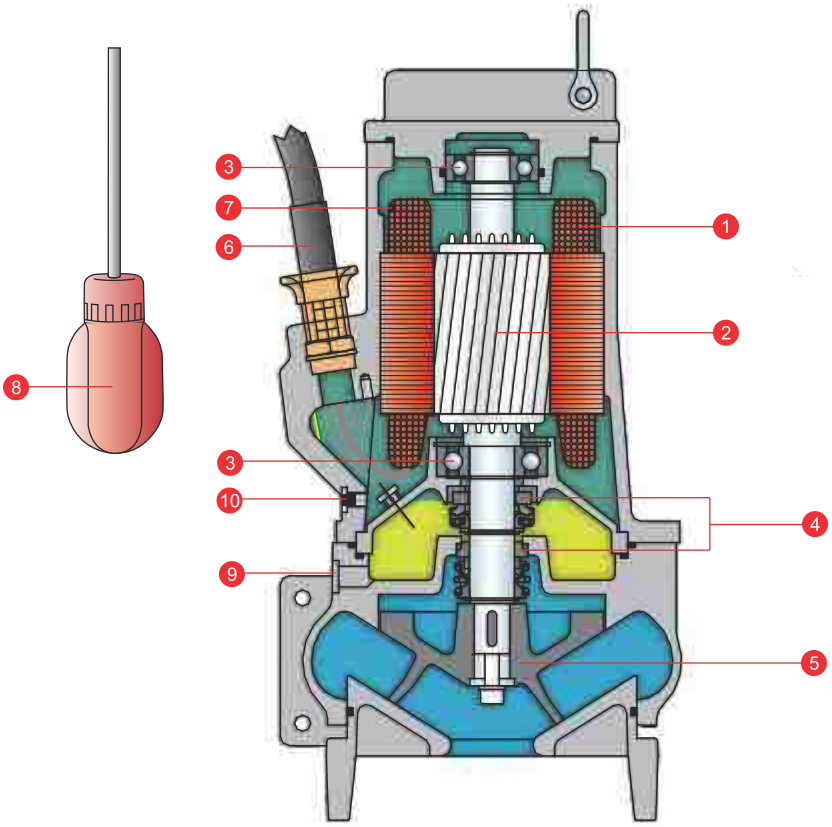
Operating parameters	
Max Flow	upto 36m³/h
Max Head	upto 25.5m
Impeller Type	Single Channel Semi Open
Outlet Size	50mm
Max Solid Size	upto 40mm
Maximum Liquid Temperature	upto 40°C
Service	S1 Duty
No. of Starts / Per Hour	20
Max. immersion depth	20m
pH range	6 to 12
Liquid Viscosity	1 mm²/s
Liquid Density	1kg/dm³
Max. Noise level	≤ 70dB

Specifications	
Power Range	1.1 to 2.6kW
Power Supply	380-415V - Three Phase, 50Hz, AC.
Ingress Protection	IP68
Motor	Dry Type Induction motor
Speed	2850 rpm
Class of Insulation	H
Moisture sensor	# Available
Thermal Overload Protector	* Available
Starting Method	Three Phase - DOL & SD
Shaft Seal	Single / Double Mechanical seal
Mechanical Seal Face Combination	Motor Side : Graphite / Alumina Pump Side : Silicon Carbide / Silicon Carbide
Bearing Type	Shielded prelubricated bearing
Cable Type	HO7RNF
Standard Cable Length	10m

Material of Construction	
Casing	Cast iron EN-GJL-260
Impeller	Cast iron EN-GJL-260
Motor Housing	Cast iron EN-GJL-260
Shaft	Stainless Steel X30 Cr13 (AISI 420)
Fasteners	Stainless Steel A2 (AISI 304)

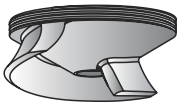


Cross Sectional Drawing

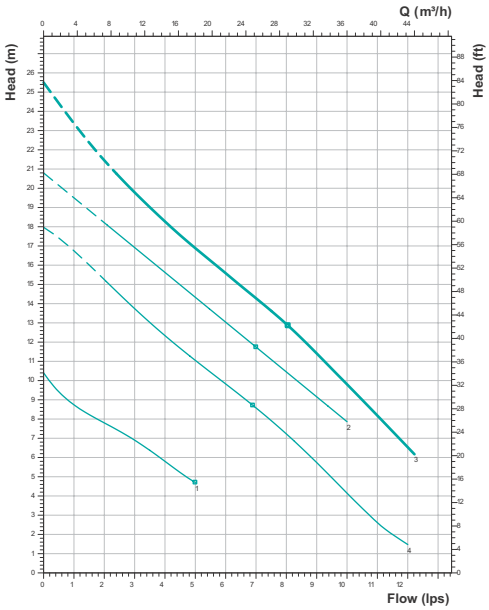


1. Fully submersible pressure tight electric motor
2. Rotor Shaft
3. Bearings
4. Mechanical seal
5. Single-channel open impeller
6. Cable
7. Thermal over load protector
8. Float switch
9. Oil inspection plug
10. Air plug hole for the motor water tightness control

* The above diagram is only for illustration purpose the actual construction of the product may vary according to the model.



PERFORMANCE CURVES



PERFORMANCE TABLE

Nr	Model - Type	P1 kW	P2 kW	Volt	µF	Amp	Giri rpm	Delivery size (mm)	Max.Solid size (mm)	l/sec	0	1.1	3.3	4.4	5.5	6.6	7.7	8.8	10
										m³/h	0	4	12	16	20	24	28	32	36
1	TMA-CS11-DT *#	1.5	1.1	400		3	2850	50	40	Head in m	10.4	8.6	6.6	5.3					
2	TMA-CS11-DT-R *#	1.4	1.1	400		2.5	2850	50	40		18	16.6	13.3	11.8	10.4	9	7.5	5.9	4.1
3	TMA-CS18-DT *#	2.2	1.85	400		4.5	2850	50	40		20.8	19.4	16.5	15.1	13.6	12.2	10.7	9.3	7.9
4	TMA-CS26-DT *#	3.2	2.6	400		5.8	2850	50	40		25.5	23.2	19.3	17.6	16.2	14.7	13.3	11.6	9.8

* Inbuilt with TOP / # Moisture sensor available

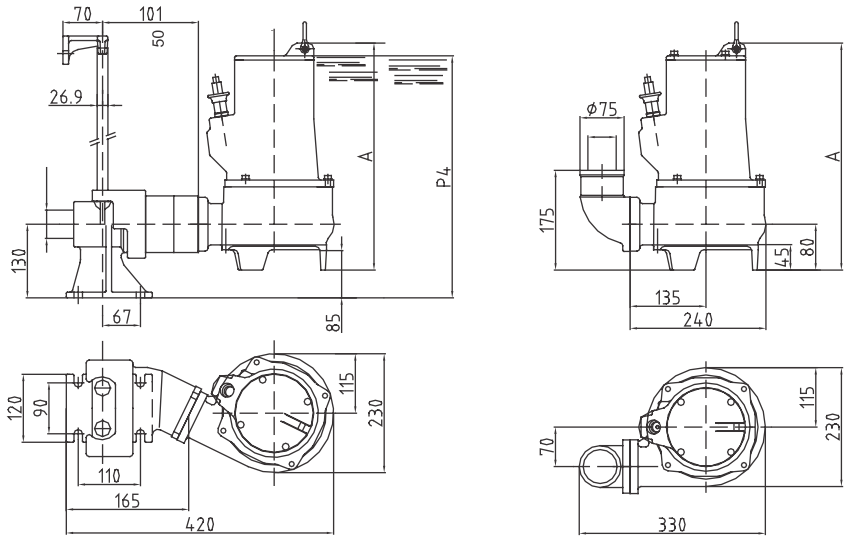
DIMENSION & WEIGHT DATA

Nr	Model - Type	A max	P4	Auto coupling V	Weight (kg)
1	TMA-CS11-DT	417	421	50	30
2	TMA-CS11-DT-R				
3	TMA-CS18-DT	417	421	50	32
4	TMA-CS26-DT	444	447	50	45

IDENTIFICATION CODE & POWER CABLE SIZE

No	Model - Type	Power Cable		Control Cable	Auto coupling Model	Auto coupling Code	Base Frame Model	Pump outlet flange code	Pump Outlet flange type (inch)
		No. of Core	Size in Sq.mm						
1	TMA-CS11-DT	7	1.5	NA	V50	146296	NA	205774	SQUARE FLANGE 2"
2	TMA-CS11-DT-R	7	1.5	NA	V50	146296	NA	205774	SQUARE FLANGE 2"
3	TMA-CS18-DT	7	1.5	NA	V50	146296	NA	205774	SQUARE FLANGE 2"
	TMA-CS26-DT	7	1.5	NA	V50	146296	NA	205774	SQUARE FLANGE 2"

DIMENSION DRAWING



Performance curve tolerances are as per HI : 14.6 / ISO : 9906, Grade - 2B.
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

Agitator - TAG Series

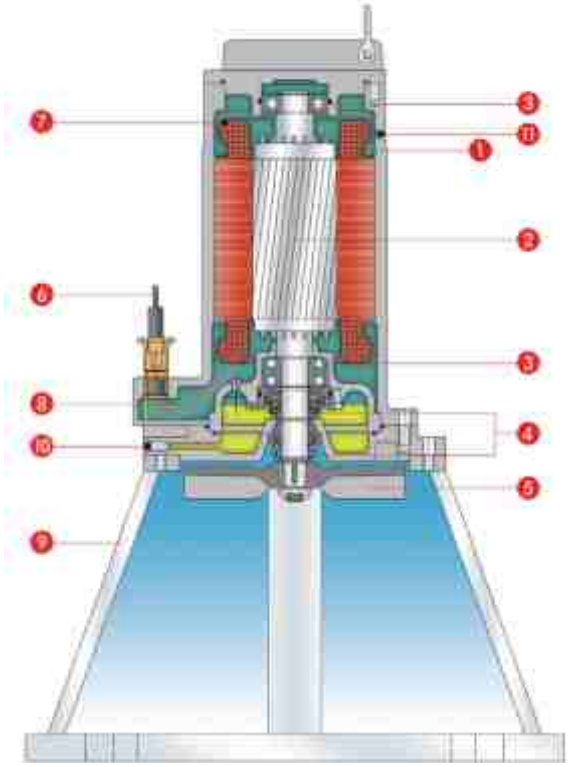
Agitators are used for effective mixing, avoiding deposits and to generate high flow and it can be used without difficulty in all kinds of tank geometries.

Operating parameters	
Maximum Liquid Temperature	upto 40°C
Service	S1 Duty
Impeller Type	Vortex Impeller
Application Field	upto 10m
No. of Starts / Per Hour	20
Max. immersion depth	20m
pH range	6 to 12
Liquid Viscosity	1 mm^2/s
Liquid Density	1kg/dm^3
Max. Noise level	≤ 70dB

Specifications	
Power Range	1.1 to 22kW
Power Supply	380-415V - Three Phase, 50Hz, AC.
Ingress Protection	IP68
Motor	Dry Type Induction motor
Speed	1450 / 2850 rpm
Class of Insulation	H
Moisture sensor	# Available
Thermal Overload Protector	* Available
Starting Method	Three Phase - DOL & SD
Shaft Seal	Double Mechanical seal
Mechanical Seal Face Combination	Motor Side : Graphite / Alumina Pump Side : Silicon Carbide / Silicon Carbide Silicon Carbide / Silicon Carbide
Bearing Type	Shielded prelubricated bearing
Cable Type	HO7RNF
Standard Cable Length	10m

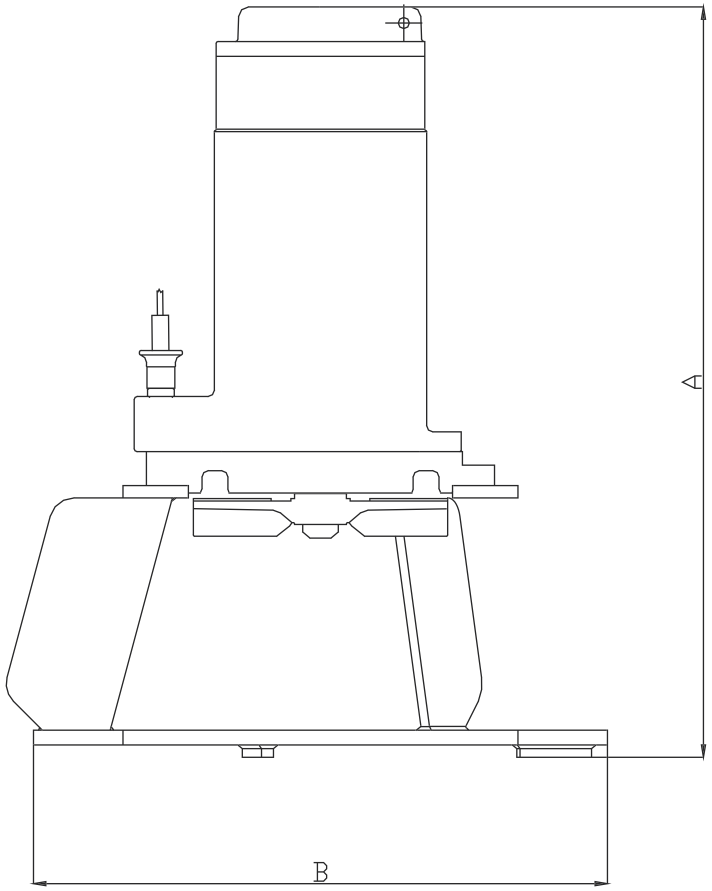
Material of Construction	
Stand	Fabricated mild steel
Impeller	Cast iron EN-GJL-260
Motor Housing	Cast iron EN-GJL-260
Shaft	Stainless Steel X30 Cr13 (AISI 420)
Fasteners	Stainless Steel A2 (AISI 304)

Cross Sectional Drawing



1. Fully submersible pressure tight electric motor
2. Rotor Shaft
3. Bearing
4. Mechanical seal
5. Vortex impeller
6. Cable
7. Thermal over load protector
8. Oil chamber probe
9. Foot ring
10. Oil inspection plug
11. Hole for the motor water tightness control

* The above diagram is only for illustration purpose the actual construction of the product may vary according to the model.



PERFORMANCE, DIMENSION & WEIGHT DATA											
Nr	Model - Type	P1 kW	P2 kW	Volt	Amp	µF	Giri rpm	Campo di lavoro Application Field (m)	A mm	B mm	Weight (kg)
1	TAG-CV11-T	1.4	1.1	400	3.2		2850	2	325	300	18
2	TAG-CV110-D-4 *#	12.5	11	400	18		1450	9	800	510	141
3	TAG-CV220-D-4 *	26.2	22	400	46		1450	10	900	850	250

* Inbuilt with TOP / # Moisture sensor available

PRODUCT CODE & POWER CABLE SIZE			
No	Model - Type	Power Cable	
		No. of Core	Size in Sq.mm
1	TAG-CV11-T	4C	1.5
2	TAG-CV110-D-4 *#	7C	2.5
3	TAG-CV220-D-4 *	4C	6

Performance curve tolerances are as per HI : 14.6 / ISO : 9906, Grade - 2B.
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

Mixers

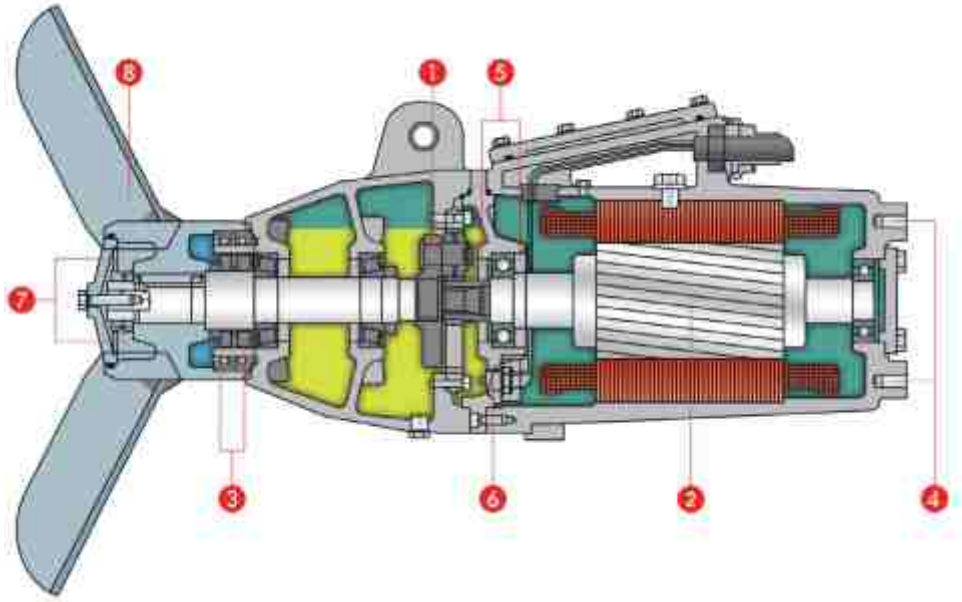
Submersible mixers are energy efficient suitable for a wide range of applications in industry and municipal treatment plants. They provide the right solution to match mixing tasks for agitating, blending, mixing, dissolving and suspension of solids in industry and municipal treatment plants. TTP series are incorporated with gear box.

Operating perameters		
	TMD Series	TTP Series
Flow	upto 1558m³/hr	upto 6702m³/hr
No.of Blades	2 & 3	3
Impeller Type	Propeller	Propeller
Axial Force	upto 912 N	upto 3725 N
Maximum Liquid Temperature	upto 40°C	upto 40°C
Service	S1 Duty	S1 Duty
No. of Starts / Per Hour	20	20
Max. immersion depth	20m	20m
pH range	6 to 12	6 to 12
Liquid Viscosity	1 mm²/s	1 mm²/s
Liquid Density	1kg/dm³	1kg/dm³
Max. Noise level	≤ 70dB	≤ 70dB

Technical specification		
	TMD Series	TTP Series
Power Range	0.8 to 3.4 kW	3 to 18.5kW
Power Supply	380-415V - Three Phase, 50Hz, AC.	380-415V - Three Phase, 50Hz, AC.
Ingress Protection	IP68	IP68
Motor	Dry Type Induction motor	Dry Type Induction motor
Speed	1450 / 960 rpm	250 / 200 rpm
Class of Insulation	H	H
Moisture sensor	# Available	# Available
Thermal Overload Protector	* Available	* Available
Starting Method	Three Phase - DOL & SD	Three Phase - DOL & SD
Shaft Seal	Single / Double Mechanical seal	Single Mechanical seal
Mechanical Seal Face Combination	Silicon Carbide / Silicon Carbide Lip seal	Silicon Carbide / Silicon Carbide Lip seal
Bearing Type	Shielded prelubricated bearing	Shielded prelubricated bearing
Cable Type	HO7RNF	HO7RNF
Standard Cable Length	10m	10m

Material of Construction		
	TMD Series	TTP Series
Propeller	Stainless Steel 316L	Stainless Steel 316L
Motor Housing	Cast iron EN-GJL-260	Cast iron EN-GJL-260
Shaft	Stainless Steel X30 Cr13 (AISI 420)	Stainless Steel X30 Cr13 (AISI 420)
Fasteners	Stainless Steel A2 (AISI 304)	Stainless Steel A2 (AISI 304)

Cross Section Drawing

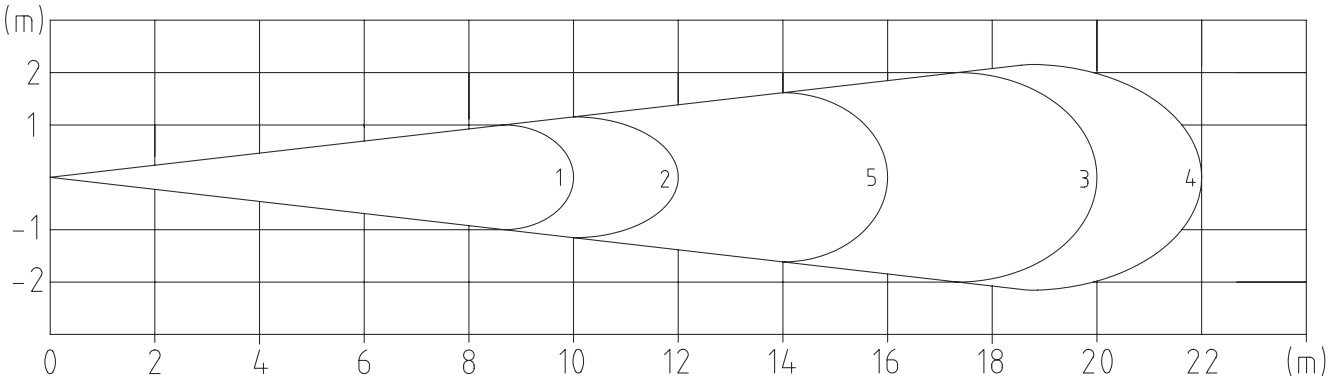


1. Long-life planetary transmission in big-volume oil chamber with inspection screw
2. Pressure tight sealed motor.
3. Bearing
4. Galvanic separation of motor housing and motor bracket prevents galvanic corrosion
5. Shaft seal motor housing: lip seal protection with mechanical seal
6. Moisture sensor
7. Propeller shaft seals.
   Two level sealing system for optimum protection:
   - 2 lip seals in the propeller hub
   - silicon carbide mechanical seal on propeller shaft.
   Provides optimum protection against seeping liquid
8. Hydraulically optimized self-cleaning propeller

Performance curve tolerances are as per HI : 14.6 / ISO : 9906, Grade - 2B.
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

TMD Series - Tormac Mixer with Direct Transmission

PERFORMANCE CURVES



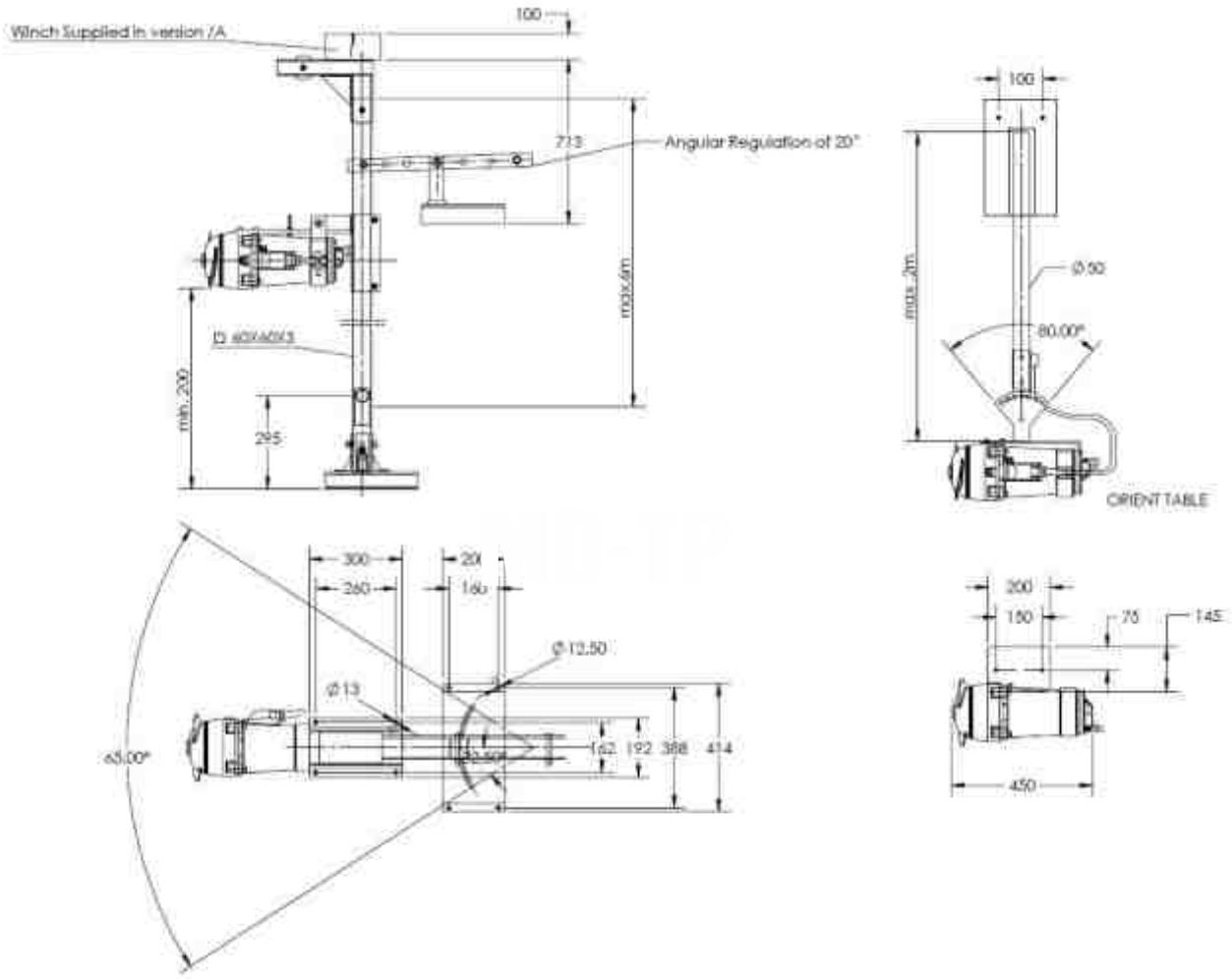
PERFORMANCE TABLE									
Nr	Model - Type	P1 kW	P2 kW	Volt	Amp	Giri rpm	Pale - Blades	Spinta assiale - Axial force N	Portata - Flow m^3/h
1	TMD-RP08-T-4 *#	1.1	0.8	400	2.8	1450	3	152	320
2	TMD-RP12-T-4 *#	1.7	1.2	400	3.6	1450	3	210	372
3	TMD-RP26-T-4 *#	3.4	2.6	400	6.2	1450	2	404	1275
4	TMD-RP34-T-4 *#	4.3	3.4	400	7.6	1450	2	912	1558
5	TMD-RP21-T-4 *#	3.1	2.1	400	5.7	960	2	206	590

* Inbuilt with TOP / # Moisture sensor available

PRODUCT CODE & POWER CABLE SIZE			
No	Model - Type	Power Cable	
		No. of Core	Size in Sq.mm
1	TMD-RP08-T-4 *#	4C	25
2	TMD-RP12-T-4 *#	4C	25
3	TMD-RP26-T-4 *#	4C	25
4	TMD-RP34-T-4 *#	4C	25
5	TMD-RP21-T-4 *#	4C	25

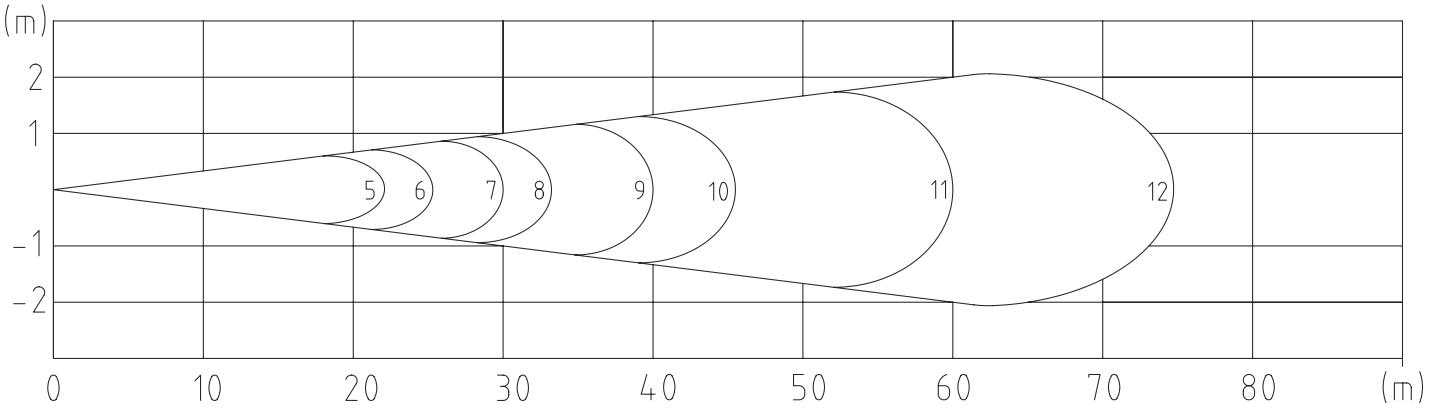
Performance curve tolerances are as per HI : 14.6 / ISO : 9906, Grade - 2B.
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

DIMENSION DRAWINGS



TP Series - Mixer with Planetary Gear Box

PERFORMANCE CURVES



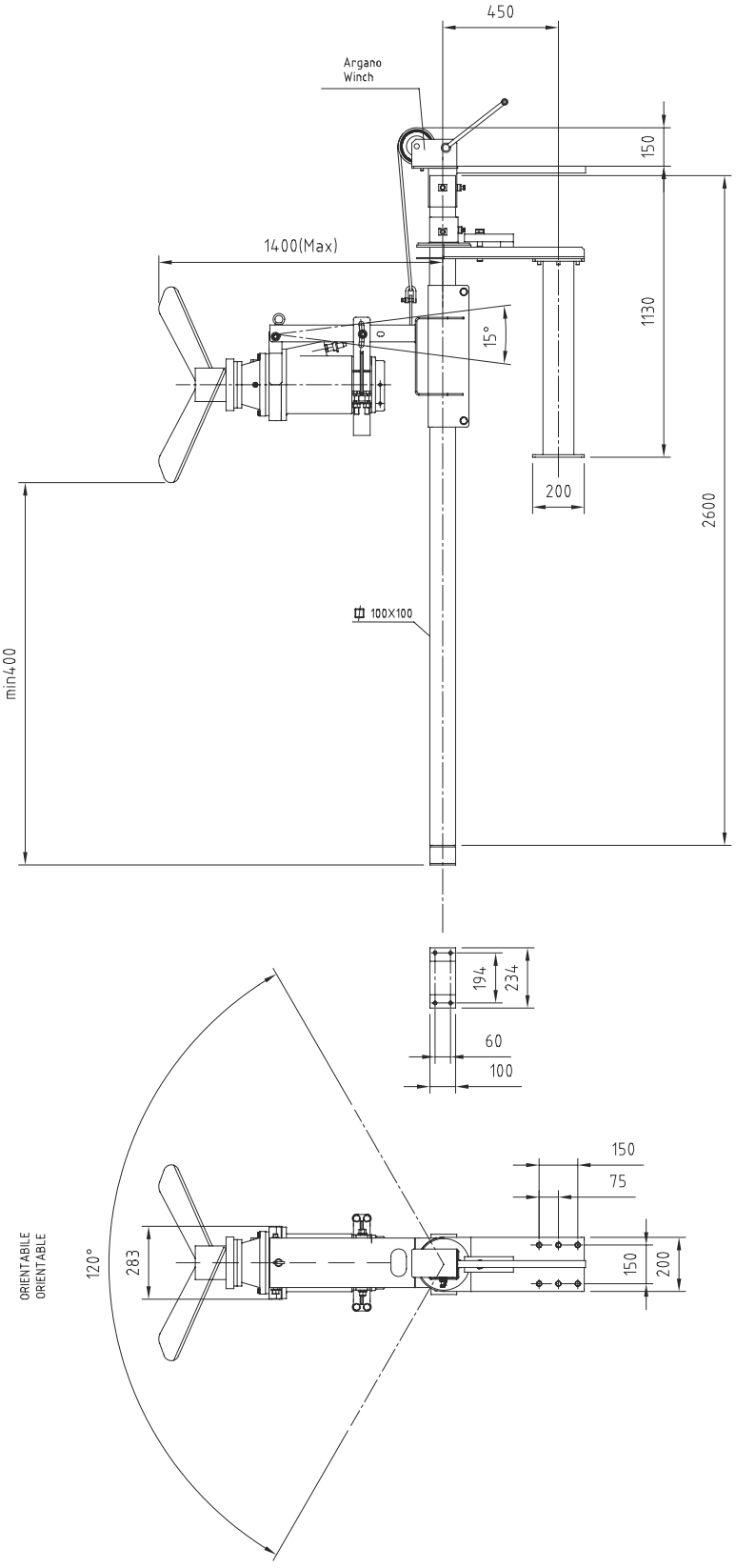
PERFORMANCE TABLE

Nr	Model - Type	P1 kW	P2 kW	Volt	Amp	Giri rpm	Pale - Blades	Spinta assiale - Axial force N	Portata - Flow m^3/h
1	TTP-RP30-T-4 *	3.5	3	400	7,2	250	3	498	1462
2	TTP-RP40-T-4 *	4.7	4	400	7,5	250	3	742	2000
3	TTP-RP55-D-4 *	6.4	5.5	400	10,8	250	3	800	2162
4	TTP-RP75-D-4 *	8.7	7.5	400	15,6	250	3	1131	2821
5	TTP-RP90-D-4 *	10.1	9	400	18	200	3	1265	3013
6	TTP-RP110-D-4 *	12.5	11	400	23	200	3	1475	3286
7	TTP-RP150-D-4 *	16.7	15	400	30	200	3	2859	5489
9	TTP-RP185-D-4 *	21	18.5	400	36	200	3	3725	6702

* Inbuilt with TOP

Performance curve tolerances are as per HI : 14.6 / ISO : 9906, Grade - 2B.
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

DIMENSION DRAWINGS



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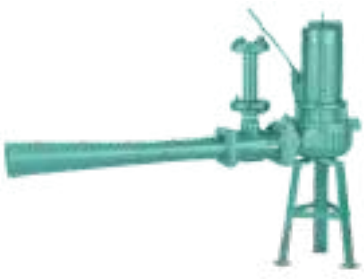


Jet Series

Jet type aerator is a submersible pump combined with a venturi and jet based diffuser. The primary purpose is to transfer oxygen to the liquid or sludge. Jet aerators are easily configured into any basin geometry including circular, rectangular, looped reactors and sloped wall basins. In this aerator the aspirated air mixes with water and is ejected through the diffuser simultaneously agitating and aerating the ponded water. The mixed air water is ejected powerfully in one direction which effectively agitates the water across a wide area.

Operating parameters	
Oxygen Transfer	0.98 - 16.2 kg O2/hr
Maximum Liquid Temperature	upto 40°C
Impeller Type	Mono channel Impeller
Maximum Air Intake	upto 110 l/s
Service	S1 Duty
No. of Starts / Per Hour	20
Max. immersion depth	20m
pH range	6 to 12
Liquid Viscosity	1 mm^2/s
Liquid Density	1kg/dm^3
Max. Noise level	≤ 70dB

Specifications	
Power Range	2.2 to 14 kW
Power Supply	380-415V - Three Phase, 50Hz, AC.
Ingress Protection	IP68
Motor	Dry Type Induction motor
Speed	1450 rpm
Class of Insulation	H
Moisture sensor	# Available
Thermal Overload Protector	* Available
Starting Method	Three Phase - DOL & SD
Shaft Seal	Single / Double Mechanical seal
Mechanical Seal Face Combination	Motor Side : Graphite / Alumina Pump Side : Silicon Carbide / Silicon Carbide
Bearing Type	Shielded prelubricated bearing
Cable Type	HO7RNF
Standard Cable Length	10m

Material of Construction	
Casing	Cast iron EN-GJL-260
Impeller	Cast iron EN-GJL-260
Motor Housing	Cast iron EN-GJL-260
Shaft	Stainless Steel X30 Cr13 (AISI 420)
Fasteners	Stainless Steel A2 (AISI 304)

TAR Series

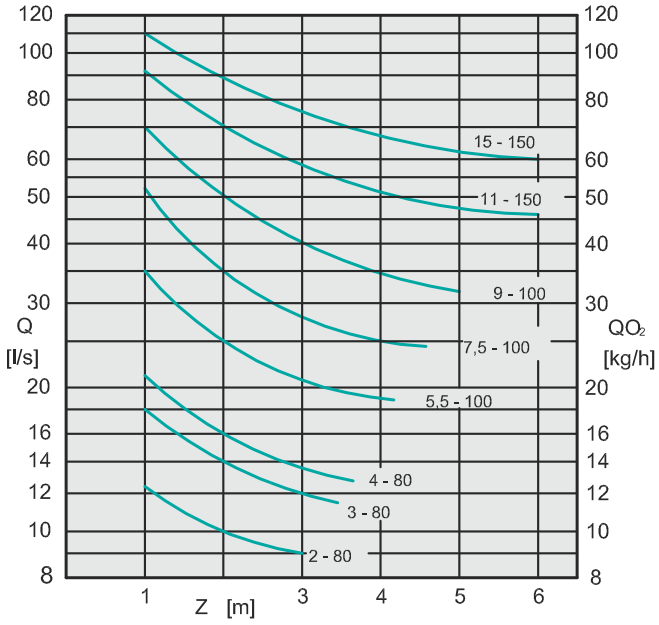
In diffuser type aerators, the liquid flow generated by an impeller causes negative pressure to form on the impeller vanes and draw in air from atmosphere. The aspirated air mixed with water viciously by mechanical forces inside the impeller and guide van transform into tiny bubbles. Moreover, the mixed flow of air and water is evenly discharged in multiple directions along the circumference. The compounded action of the air lift and convective currents that are generated in the process makes aeration and agitation very efficient and increases the amount of oxygen dissolved in the water

Operating parameters	
Oxygen Transfer	1 - 9 kg O2/hr
Maximum Liquid Temperature	upto 40°C
Impeller Type	Semi Open Impeller
Maximum Air Intake	upto 125m³/hr
Service	S1 Duty
No. of Starts / Per Hour	20
Max. immersion depth	20m
pH range	6 to 12
Liquid Viscosity	1 mm²/s
Liquid Density	1kg/dm³
Max. Noise level	≤ 70dB

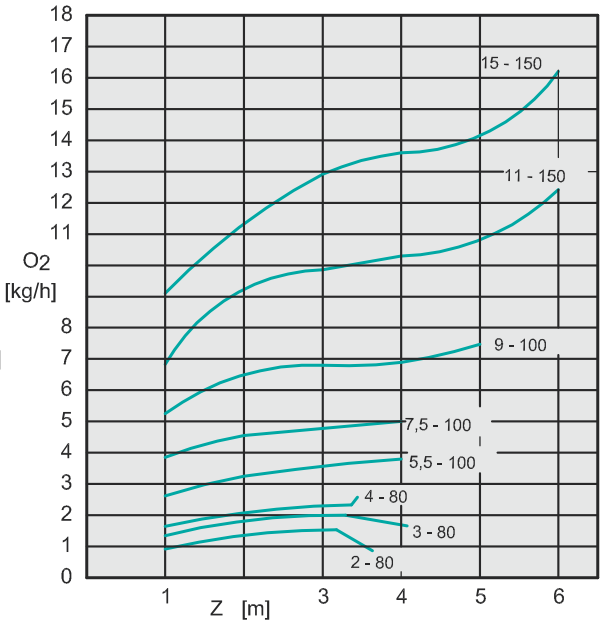
Specifications	
Power Range	1.6 to 5 kW
Power Supply	380-415V - Three Phase, 50Hz, AC.
Ingress Protection	IP68
Motor	Dry Type Induction motor
Speed	1450 / 2850 rpm
Class of Insulation	H
Moisture sensor	# Available
Thermal Overload Protector	* Available
Starting Method	Three Phase - DOL & SD
Shaft Seal	Single / Double Mechanical seal
Mechanical Seal Face Combination	Motor Side : Graphite / Alumina Pump Side : Silicon Carbide / Silicon Carbide
Bearing Type	Shielded prelubricated bearing
Cable Type	HO7RNF
Standard Cable Length	10m

Material of Construction	
Impeller	Mild Steel
Motor Housing	Cast iron EN-GJL-260
Shaft	Stainless Steel X30 Cr13 (AISI 420)
Fasteners	Stainless Steel A2 (AISI 304)

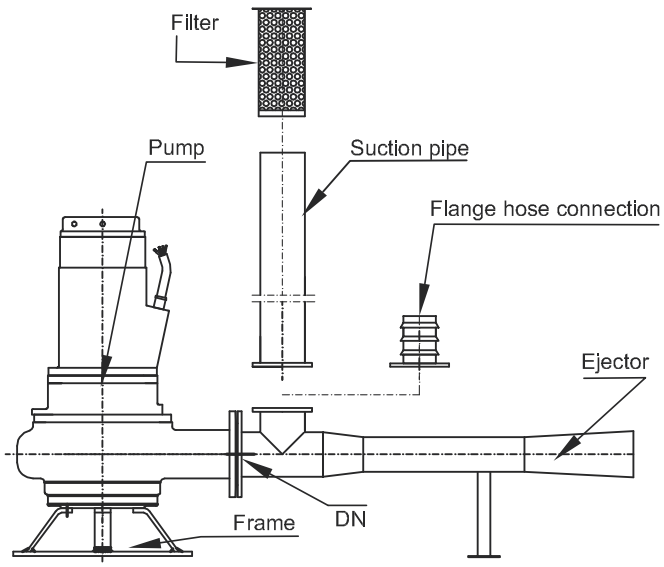
Air Intake diagram



Oxygen transfer diagram



Q = Air capacity - [l/s] Z = Submergence - [m] QO_2 = Oxygen In air capacity - [kg/h] O_2 = Oxygen transfer - [kg/h] Curves established for liquid density 1- viscosity 1 mm^2/s- temperature 20° C.



Indicative selection

P = 0,03 x V

P = Motor rating [kW]

V = Volume of liquid sump [m^3]

Jet Type Aerator			
Model	Min Max water depth(m)	Maximum intake of air(l/s)	Oxygen transfer capacity(kg/h)
TAR-CJ22-FT	1-Mar	12	0.98-1.5
TAR-CJ35-FT	1-3.5	18	1.5-2
TAR-CJ42-FT	1-3.7	21	1.7-2.3
TAR-CJ50-GD	1-4.2	35	2.6-3.8
TAR-CJ75-GD	1-4.6	52	3.9-5
TAR-CJ90-GD	1-May	70	5.3-7.5
TAR-CJ110-ID	1-Jun	90	6.8-12.5
TAR-CJ140-ID	1-Jun	110	9-16.2

Performance curve tolerances are as per HI : 14.6 / ISO : 9906, Grade - 2B.
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

Assembly Pump + Ejector	Composition												
	Electric Pump								Ejector	Accessories			
Aerator Type	Pump Type	Discharge	Motor rating	Voltage	Current	RPM	Startup		Ejector Type	Suction Pipe	Filter	Hose Connection	Frame
		DN	[kW]	[V]	[A (400V)]	n	Direct	人-△					
JET 2-80	TMC-CC22-FT-4		2,2	400	5,4	1450	人		80 - 55	S 80	F 80	HC 80	FR 80
JET 3-80	TMC-CC35-FT-4	80	3,5		6,6	1450	人						
JET 4-80	TMC-CC42-FT-4		4,2		9,9	1450	△	人-△					
JET 5,5-100	TMC-CC50-GD-4		5	400	11	1450	△	人-△	100 - 63	S 100	F 100	HC 100	FR 100
JET 7,5-100	TMC-CC75-GD-4	100	7,5		16	1450	△	人-△					
JET 9-100	TMC-CC90-GD-4		9		20	1450	△	人-△					
JET 11-150	TMC-CC120-ID-4		11	400	24	1450	△	人-△	150 - 95	S 150	F 150	HC 150	FR 150
JET 15-150	TMC-CC140-ID-4	150	14		30	1450	△	人-△					

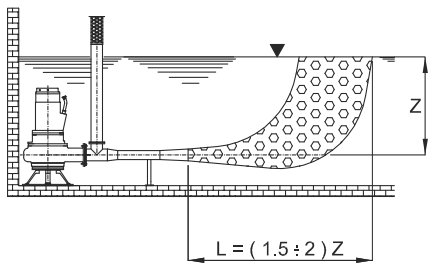
OVERALL DIMENSIONS [mm]

Aerator Type	DN1	DN2	A	B	C	D	E	F	G	H	I	L	M	N
JET 2-80	80	80	240	630	390	88,9	200	360	632	420	118	1016	240	360
JET 3-80				670	430					460			280	
JET 4-80				800	413									
JET 5,5-100	100	100		806	566	114	260	421					345	457
JET 7,5-100				826	586					525				
JET 9-100			342	945	603					516				
JET 11-150	150	150		1019	677	168	395	491	943		202	1592	370	468
JET 15-150														

ACCESSORIES

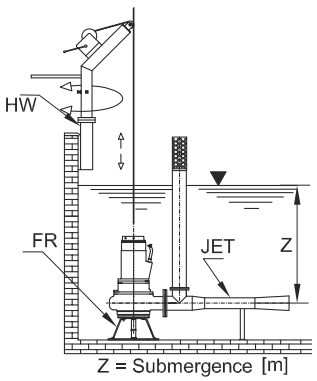
Frame	Hoist & Winch	Hose Connection with Flange	Suction pipe	Air Intake Filter
		Dn / Dn	6 [m]	
FR 80	HW 80	HCF 80	S 80	AIF 80
FR 100	HW 100	HCF 100	S 100	AIF 100
FR 150	HW 150	HCF 150	S 150	AIF 150

Jet shape

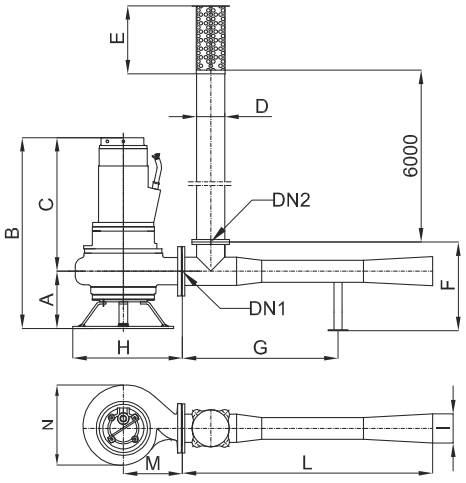


Z = Submergence [m]

Possible Installations

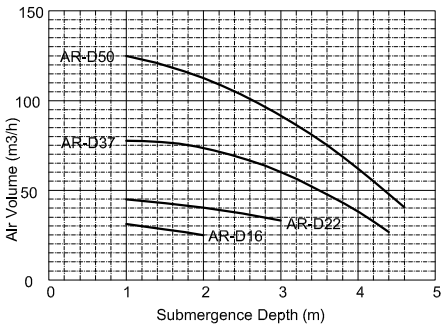


Z = Submergence [m]

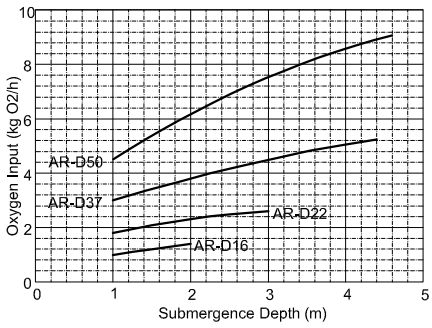


Submersible Pumps with Diffuser type Aerator Device

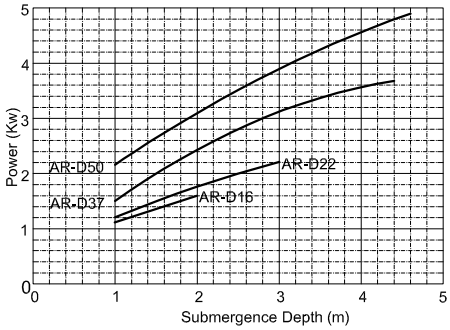
Air Volume Curve



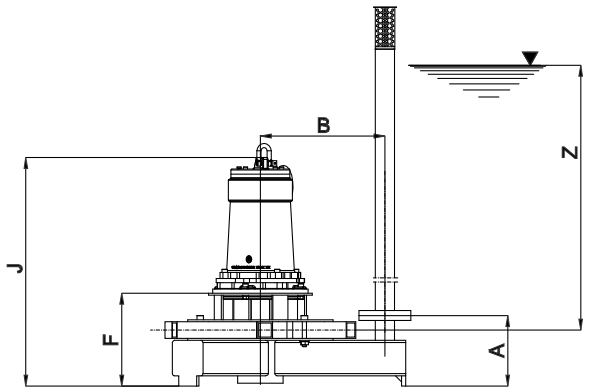
Oxygen Transfer Curve



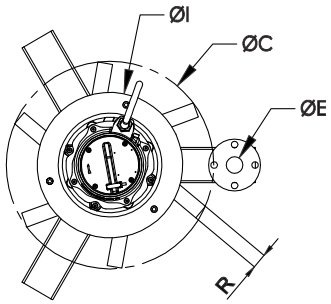
Power Curve



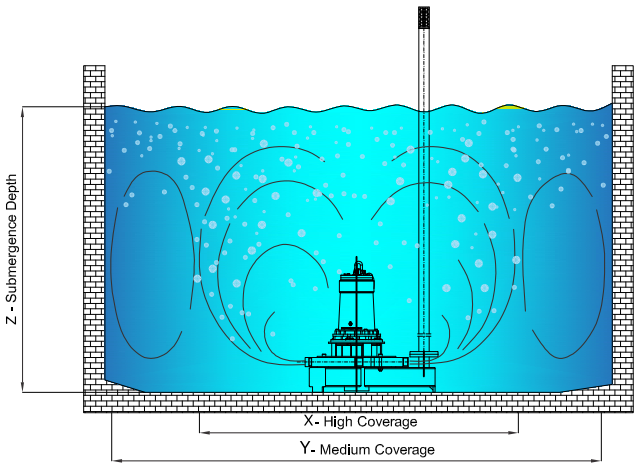
Model Name	Power (kw)	Min-Max Water depth (m)	Air Inlet pipe diameter (mm)	Maximum Intake of Air (m3/h)	Oxygen Transfer Capacity (Kg O2/h)	Weight (kg)
TAR-D16	1.6	1 - 2	40	30	1.4 - 1	65
TAR-D22	2.2	1 - 3	50	45	2.6 - 1.8	75
TAR-D37	3.7	1 - 4.4	65	77	5.2 - 3	76
TAR-D50	5	1 - 4.6	65	125	9 - 4.5	78



Z = Submergence [m]



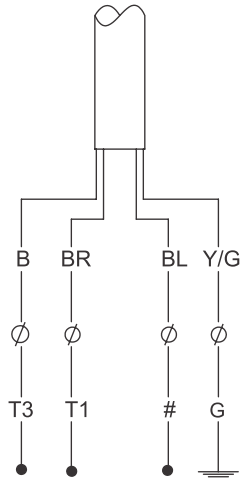
Sl.No	Model Name	A	B	C	E	F	I	J	R
1	TAR-D16	170	300	350	40	219	484	550	36
2	TAR-D22	170	310	400	50	220	481	613	36
3	TAR-D37	170	310	400	50	220	481	613	36
4	TAR-D50	225	370	400	65	260	720	702	45



Sl.No	Model Name	High Coverage X (m)	Medium Coverage Y (m)	Submergence Z (m)
1	TAR-D16	1.2	2.6	2
2	TAR-D22	2.5	5.2	3
3	TAR-D37	3.5	6	4.4
4	TAR-D50	4	8.2	4.6

Cable Connection - Single Phase

Inbuilt Capacitor

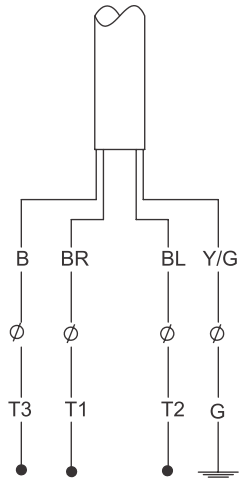


To Panel

POWER CABLE

PUMP CABLE	TERMINAL LEADS
B = BLACK	T3 = COMMON
BR = BROWN	T1 = MAIN WINDING
BL = BLUE	# = DUMMY
Y/G = YELLOW / GREEN	G = GROUND / EARTH

External Capacitor



To Panel

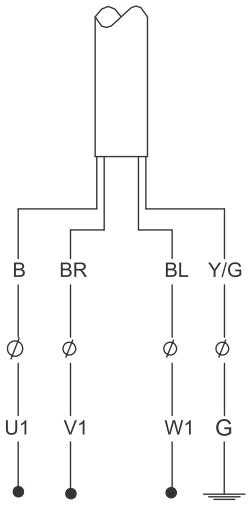
POWER CABLE

PUMP CABLE	TERMINAL LEADS
B = BLACK	T3 = COMMON
BR = BROWN	T1 = MAIN WINDING
BL = BLUE	T2 = AUXILIARY WINDING
Y/G = YELLOW / GREEN	G = GROUND / EARTH

T1 Should be Connected to Line or Supply.
T3 Should be Connected to Neutral Supply.
Capacitor should be connected across T1 & T2.

Cable Connection - Direct On Line (DOL)

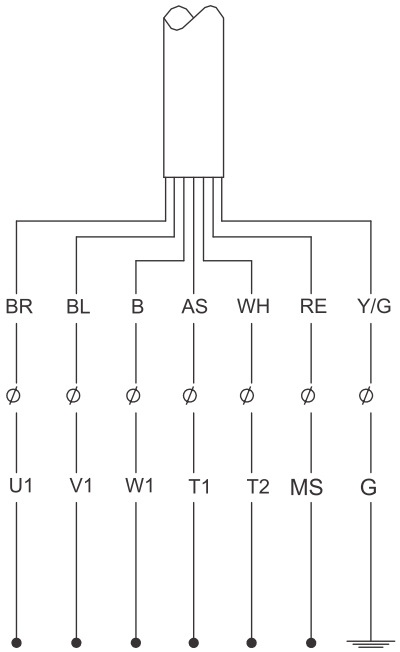
4 CORE SINGLE CABLE



To Panel

CABLE COLOR CODE
BR = BROWN
BL = BLUE
B = BLACK
AS = ASH
WH = WHITE
RE = RED
Y/G = YELLOW / GREEN
B1, B2, B3, B4, B5, B6, B7 = BLACK

7 CORE SINGLE CABLE



To Panel

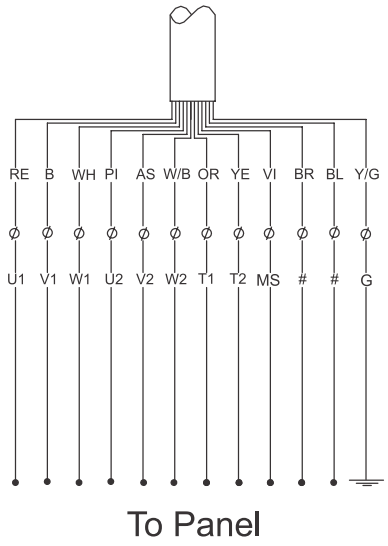
DELTA/STAR CONNECTION

TERMINAL LEADS
U1, V1, W1 = LINE
T1, T2 = TOP (Thermal overload protector)
MS = MOISTURE SENSOR
G = GROUND / EARTH

* Moisture sensor is optional. If needed connect it to Red.

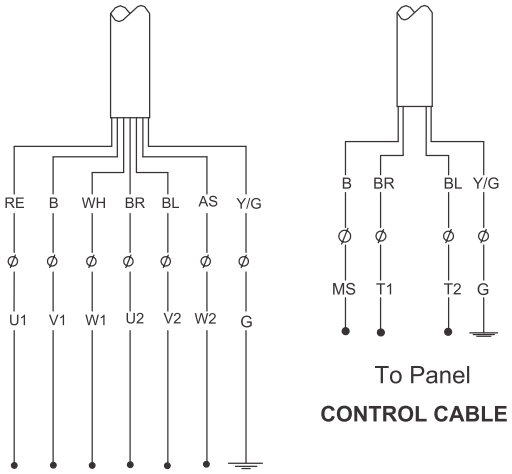
Cable Connection - Star Delta (λ/△)

12 CORE SINGLE CABLE



To Panel

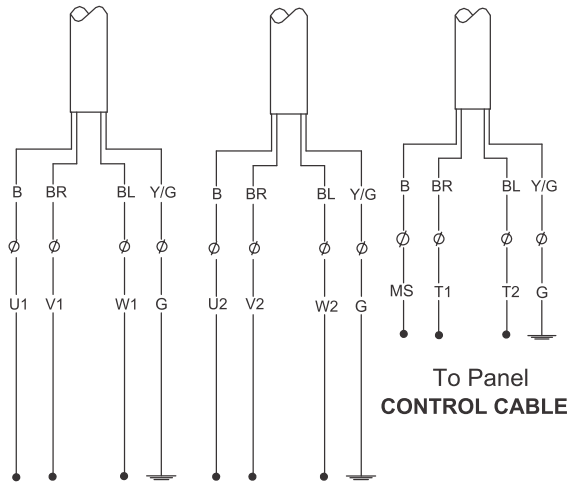
7 CORE + 4 CORE TWO CABLE



To Panel

CONTROL CABLE

4 CORE THREE CABLE



To Panel

CONTROL CABLE

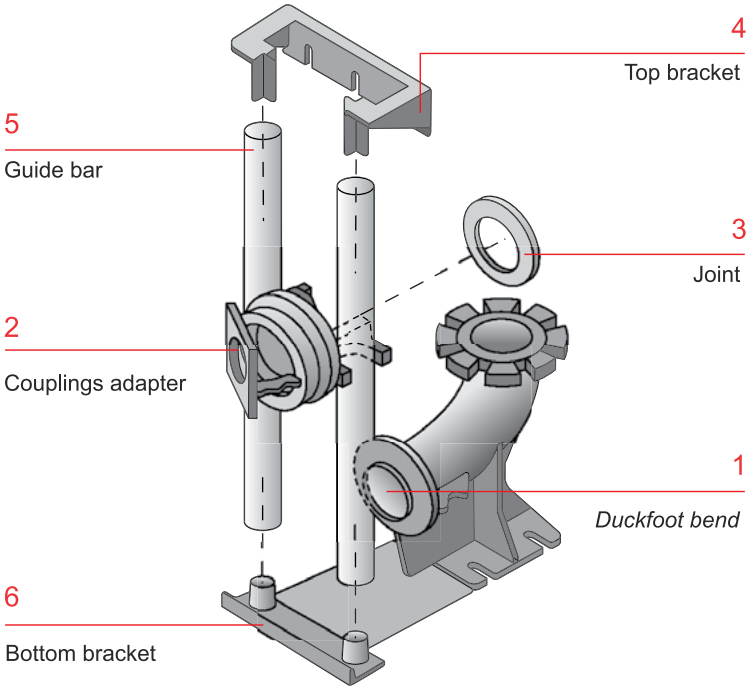
To Panel

TERMINAL LEADS
U1, V1, W1, U2, V2, W2 = LINE
MS = MOISTURE SENSOR
T1, T2 = TOP (Thermal overload protector)
G = GROUND / EARTH
# = DUMMY

* Moisture sensor is optional. If needed connect it to Violet in 12 core cable or Black in 4 core (Control) Cable.

CABLE COLOR CODE
BR = BROWN
B = BLACK
WH = WHITE
BL = BLUE
AS = ASH
W/B = WHITE/BLACK
OR = ORANGE
YE = YELLOW
VI = VIOLET
PI = PINK
RE = RED
Y/G = YELLOW/GREEN

Low Level Coupling



Speedy connection of the pump to inlet piping complete with elbow, pump adapter, brackets for guide rails (rails except), gaskets and screws.

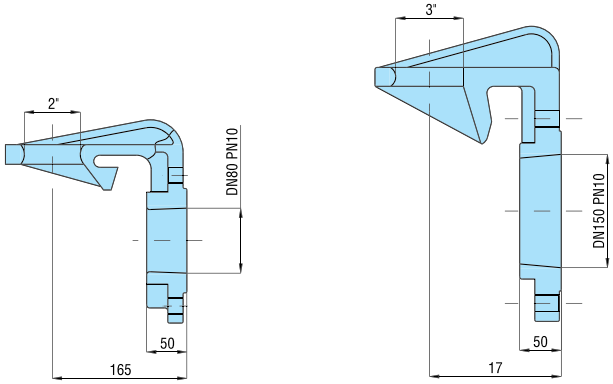
GENERAL FEATURES

Type - Model	Dimensions	Guide rails dimensions
TGR40/2	1" 1/2 - 2"	Ø 26.9 mm
TGR50N	2" - 2"	Ø 26.9 mm
TGR50	DN 50/50	Ø 26.9 mm
TGR50K	DN 50/50	Ø 42.4 x 3.2 mm
TGR65	DN 65/65	Ø 42.4 x 3.2 mm
TGR80	DN 80/80	Ø 60.3 x 3.65 mm
TGR80N	DN 80 PN10	Ø 60.3 x 3.65 mm
TGR100	DN 100/100	Ø 60.3 x 3.65 mm
TGR100N	DN 100/100	Ø 60.3 x 3.65 mm
TGR150/150K	DN 150/150	Ø 60.3 x 3.65 mm
TGR200/150K	DN 200/150	Ø 2" 1/2
TGR200/200K	DN 200/200	Ø 2" 1/2
TGR250/200K	DN 250/200	Ø 2" 1/2
TGR250/250K	DN 250/250	Ø 2" 1/2
TGR300/250K	DN 300/250	Ø 2" 1/2
TGR300/300K	DN 300/300	Ø 2" 1/2
TGR400/350K	DN 400/350	Ø 3"
TGR400/400K	DN 400/400	Ø 3"

Materials

Foot, bracket: cast iron GS400-12 UN14544
Adapter: spheroidal cast iron GS400-12 UNI 4544.
Other materials on request.

Adapters



Pump adapters for couplings already installed

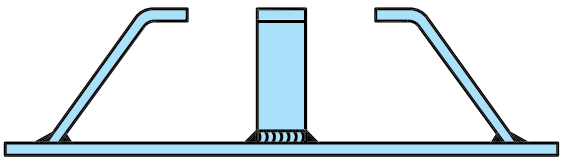
GENERAL FEATURES		
Type - Model	Dimensions	Guide rails dimensions
C80	DN 80	Ø 2"
C100	DN 100	Ø 3"
C150/100-3	DN 150/100 R3"	Ø 3"
C150-3	DN 150 R3"	Ø 3"

Lifting Chain

LENGHT			
6 m	8 m	10 m	12 m

Warm galvanized steel lifting chain. Other diameters available on request

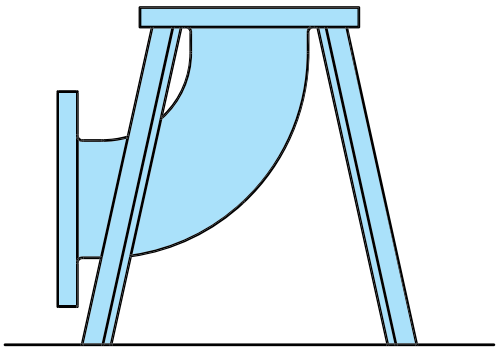
Base Stand



GENERAL FEATURES		
Series	Dimensions	Guide rails dimensions
GB-2½"	CB65	DN 65
GB-4"	CB100	DN 100
MC-3" / 4"	CB80-100	DN 80-100
* MC-6"	CB150-1	DN 150
** MC-6"	CB150-2	DN 150
KC-6"	CB150-2	DN 150
KC-8"	CB200	DN 200
KC-10"	CB250	DN 250
* Up to 16,9 kw		
** From 17 kW		

Base Stand

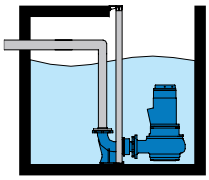
Base stand in galvanized steel.



Base stand with suction elbow for vertical dry installation.

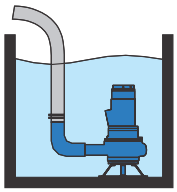
GENERAL FEATURES		
Series	Dimensions	Guide rails dimensions
MC-3”	CTVS 80A-R	DN 80 PN 10
MC-4”	CTVS 100A-R	DN 100 PN 16/180
MC-6”	CTVS 150A-R	DN 150 PN 16/240
KC-6”	CTVS 150 R	DN 150
KC-6”	CTVS 150/200 R	DN 150/200
KC-8”	CTVS 200 R	DN 200
KC-8”	CTVS 200/250 R	DN 200/250
KC-10”	CTVS 250 R	DN 250
KC-10”	CTVS 250/300 R	DN 250/300
KC-12”	CTVS 300 R	DN 300
KC-18”	CTVS 400 R	DN 400

Accessories



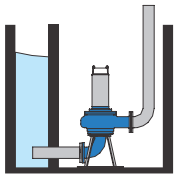
1 V

Fixed installation with low level coupling type V



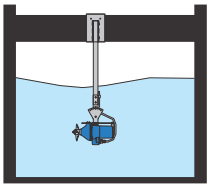
3 G

Movable installation for Flexible pipe



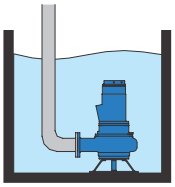
5 C

Dry pit vertical installation for pumps with cooling jacket



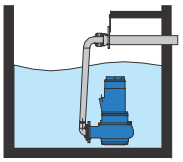
11 T

Fixed installation for mix-ers with adjustable lifting device



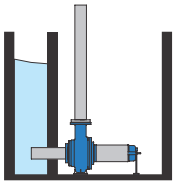
2 F

Movable installation with base stand and connection for rigid pipe



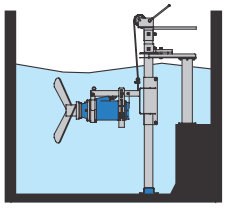
4 H

Fixed installation with HK system



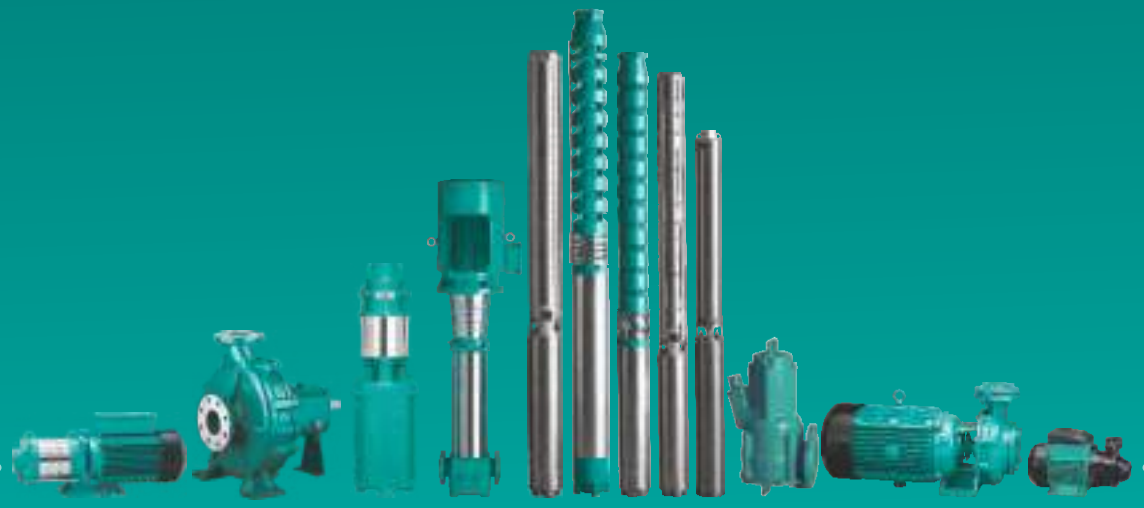
6 O

Dry pit horizontal installation for pumps with cooling jacket



12 P

Adjustable fixed installation with pole and winch



THE POWER BEHIND THE FORCE

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, Submersible cables, uPVC pipes, and control panels, Centrifugal Pumps, Inline Booster Pumps, Jet Self-priming Pumps Sewage pumps, Induction 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.

IB-TSL-L/24-E3

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Tormac PUMPS