



PORTABLE PUMPS
HEAT EXCHANGERS
VALVES
HOSES
FITTINGS
AND MUCH MORE

C100MD **Low pressure** **1/2 HP** **Transfer Pump**



Please Contact Us With Any Questions
604 988 7151
sales@cpeystems.com
www.cpeystems.com

Pump Ordering Information

Determining the model number of your pump is easy as 1-2-3-4.

TF-C



①

100



②

M



③

D



④

① PUMP SERIES

TF-C Close Coupled

② PUMP MODEL

TF-C100, TF-C114, TF-C216, TF-C218, TF-C328

Note:

- TF-C Series furnished without legs unless otherwise specified on order.
- Casing Gaskets: BUNA (Standard). If other type is required, specify on order.
- Enlarged inlet: When ordering pump with enlarged inlet state inlet size, i.e., TF-C218MD with 3" inlet.

③ PORT CONNECTIONS

M - Clamp (Standard)

T - Acme Bevel Seat Thread

S - NPT Female Thread

F - Flanged

W - Weld

TYPE OF SEAL/STANDARD MATERIAL:

- ④ D - External balanced sanitary seal
- DG - External balanced sanitary seal w/clamped insert
- E - Water cooled balanced double seal
- F - External balanced seal w/cascading water



Motor Data is not included as part of 4-step ordering number.

Provide the following information:

- Horsepower and RPM
- Electrical phase and voltage

- TEFC is standard

If motor is furnished from another source, supply the following:

- Horsepower
- RPM
- NEMA frame size

Remember to order needed accessories:

- Seal Kits and Parts
- Gaskets
- Clamps
- Hangers
- Air Relief Valves
- Check Valve
- Butterfly Valves
- Ball Valves
- Fittings

TOP-FLO® TF-C Series Centrifugal Pumps



"TF-C" SERIES

Model No.	TF-C100	TF-C114	TF-C216	TF-C218	TF-C328
Inlet	1-1/2	1-1/2 or 2	2 or 2-1/2	2 or 3	3 or 4
Outlet	1	1-1/2	1-1/2	1-1/2	2
Max. Imp.	3.68	4	6	8	8

PUMP SPECIFICATIONS

Pump Casings:

- Volute type - Standard
- Inlet-oversizing as noted in chart above

Pump Connections:

SANITARY:	INDUSTRIAL:
• Clamp	• Threaded
• Bevel Seat (ACME)	• Flanged

Pump Construction Materials:

- All wetted parts - 316 SS
- Seals - Carbon (other seals available)
- Casing Gasket - BUNA (Standard)
- FKM, EPDM, and PTFE are available

Pump Finishes:

- Polished or Electropolished

Pump Seals:

- Available in D, DG, E, and F styles

Motor, Electrical:

- 3 Phase - 230/460 volts - 1750 & 3500 rpm
- Single Phase - 115/230 volts - 1750 & 3500 rpm

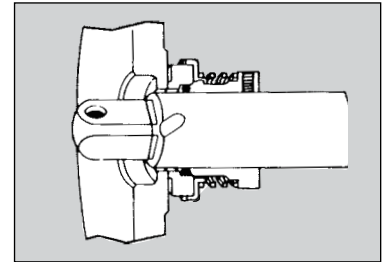
Motor Housings:

- TEFC (Totally Enclosed Fan Cooled)
- Washdown Duty
- Other styles available on request

For light duty transfer requirements, see Top Line brochure (TF-C100).

SEAL SPECIFICATIONS

TYPE D External Balanced Seal (Sanitary)

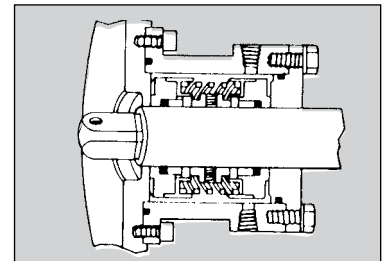


This versatile seal has numerous applications but yet is extremely durable. Dairy products, soft vegetables, beverages, and even acid cleaning solutions and detergents are among the recommended uses.

TYPE DG External Balanced Seal with Clamped-in Seat (Sanitary)

The DG seal uses the standard Type D rotating seal components with a reversible silicon carbide, tungsten carbide or ceramic seat. Typical applications include liquid sugar, beverage syrup, chocolate and abrasive products.

TYPE E Water Cooled Balanced Double Seal (Sanitary)



Type E is designed to withstand heavy duty vacuum applications (to 28" Hg), tacky products, slurries, or pumped products which may exceed 212°F. The seal chamber can be pressurized to permit use of drain piping for coolants and sealants. Coolant or sealant can be circulated through the seal chamber under very low pressure when used to cool the seal face or seal against vacuum.

TYPE F – (Sanitary)

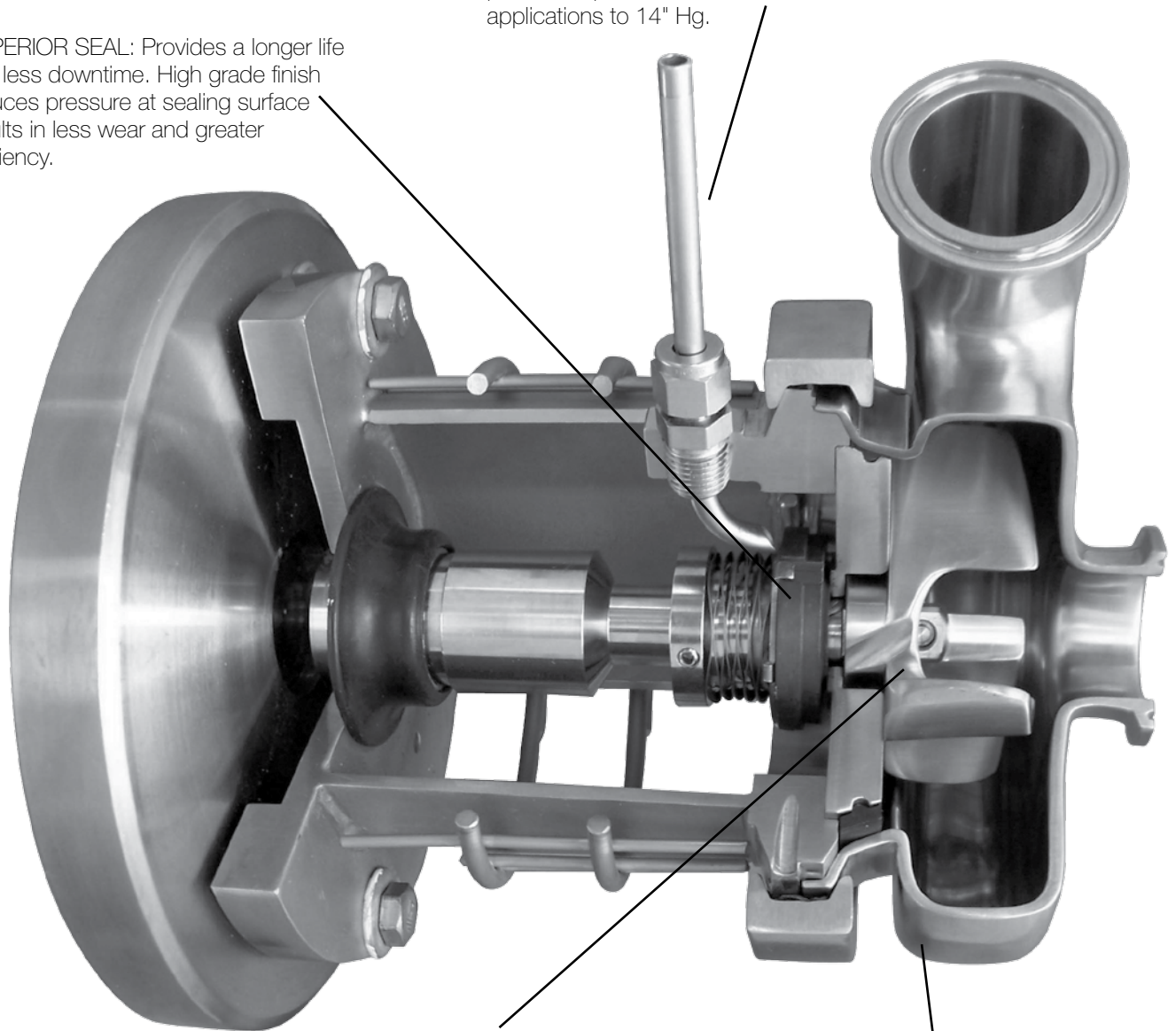
Seal same as Type D seal except includes a water cascade (not shown).

All sanitary seals meet 3A accepted practices.

TOP-FLO[®] pumps are top performers using numerous features

SUPERIOR SEAL: Provides a longer life and less downtime. High grade finish reduces pressure at sealing surface results in less wear and greater efficiency.

TYPE F SEAL: Water cascade attachment is recommended for pumping tacky or hot products up to 200° F, and for vacuum applications to 14" Hg.



NO DISASSEMBLY FOR CLEANING: Unique groove-in-shaft design directs sanitizer to all critical areas. A must for clean-in-place applications.

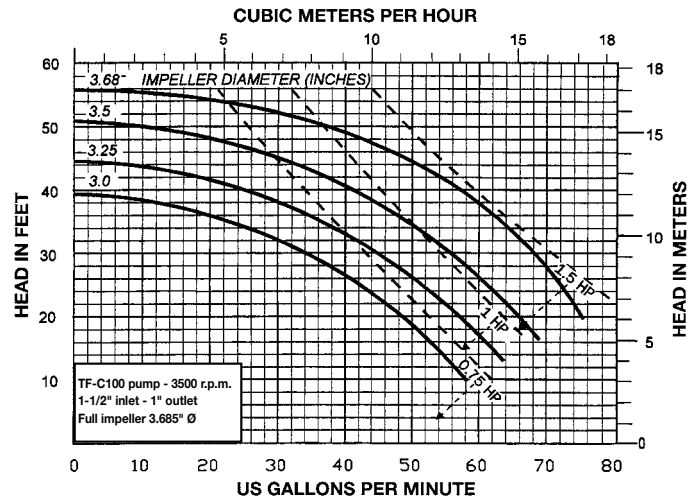
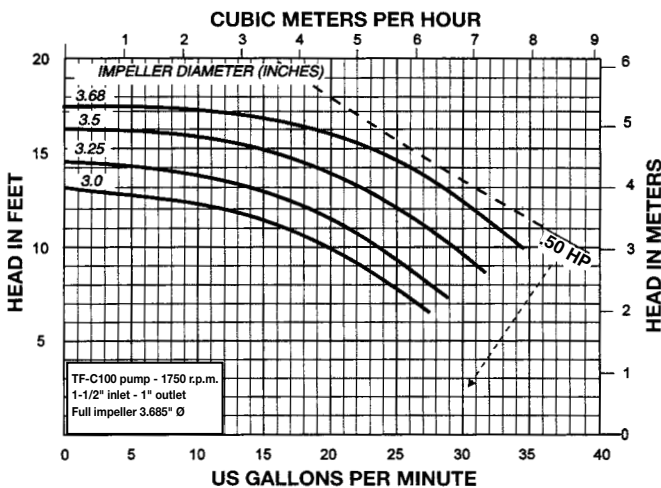
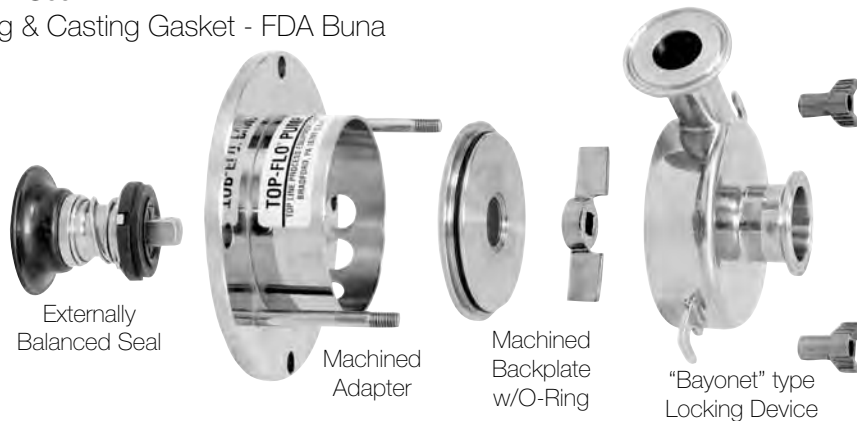
CASING: Finely polished casing suitable to meet numerous requirements. Casing available in a wide selection of port connections to meet a variety of piping systems.

Top-Flo® TF-C100 Centrifugal Pump

The TOP-FLO® TF-C100 centrifugal pump is ideal for use in small and medium size process applications in the dairy, food, beverage, pharmaceutical and other sanitary process industries.

Specifications

- Pump Casing
 - Circular Type
- Pump Connections
 - 1 1/2" Inlet x 1" Outlet
 - Clamp type - Standard
- Pump Construction materials
 - All Wetted Parts - Type 316L
 - Balance Type 304
 - Carbon Seal
 - O-Ring & Casting Gasket - FDA Buna
- 3A Approved
- Pump Finish
 - Polished ID/OD 32Ra
- Pump Impeller
 - Max 3.685" Diameter
- Pump Seal
 - External Balanced
 - Sanitary Single Mechanical



*Styles and dimensions are subject to change without notice.

Contact us if you need any assistance
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Burnaby, BC

Phone: 604 988 7151

TOP-FLO[®] TF-C Series Centrifugal Pumps

Capacity Curves

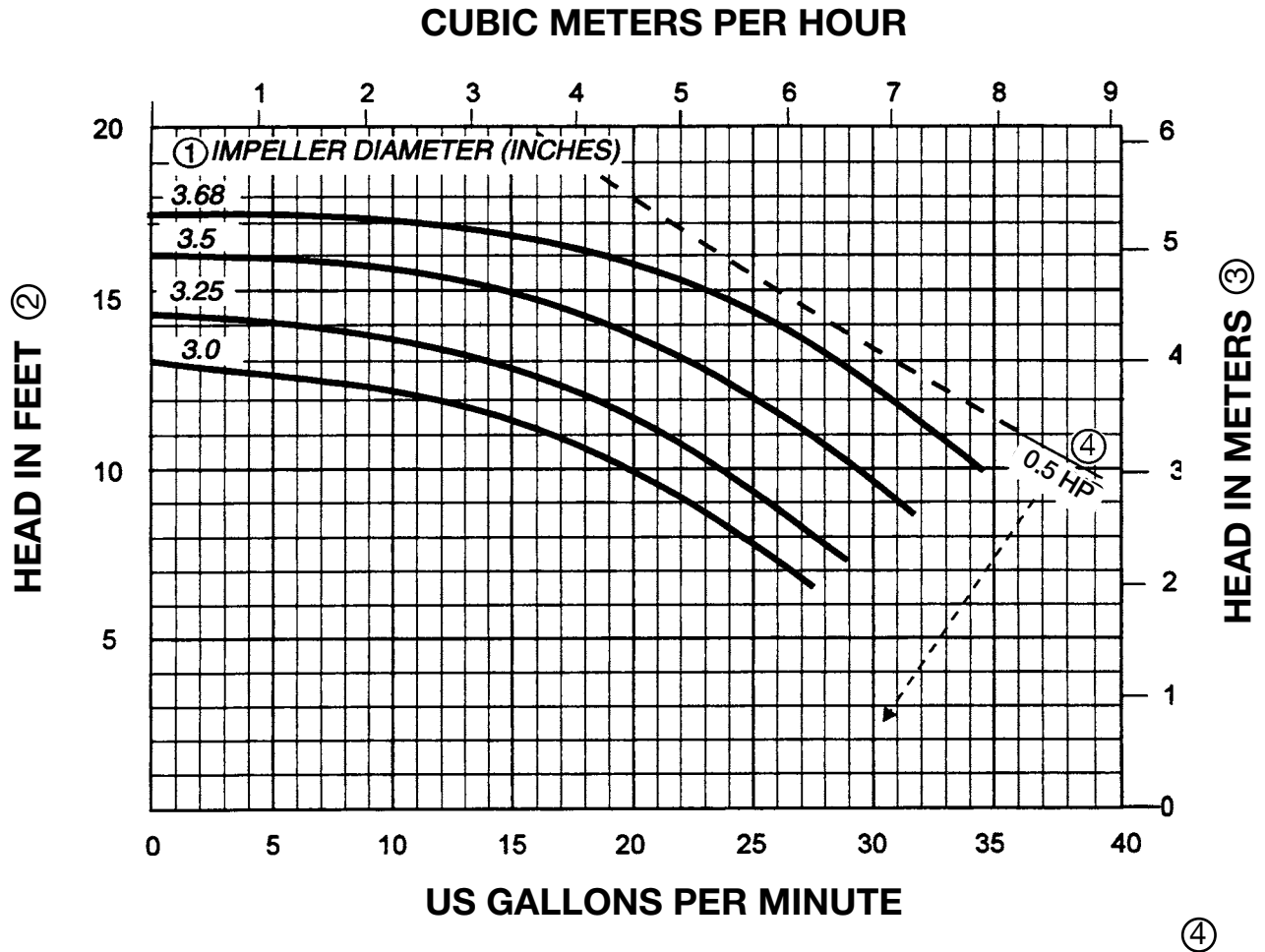
Based on water at 70°F (22°C)

Model: TF-C100

60 Hz

1750 RPM

Size: 1-1/2 x 1 x 3-11/16



NOTES:

① Impeller diameters available in 1/16 inch increments

③ $\text{Kg/cm}^2 = \frac{\text{Head in Meters} \times \text{Specific Gravity}}{10}$

② $\text{PSI} = \frac{\text{Head in Feet} \times \text{Specific Gravity}}{2.3}$

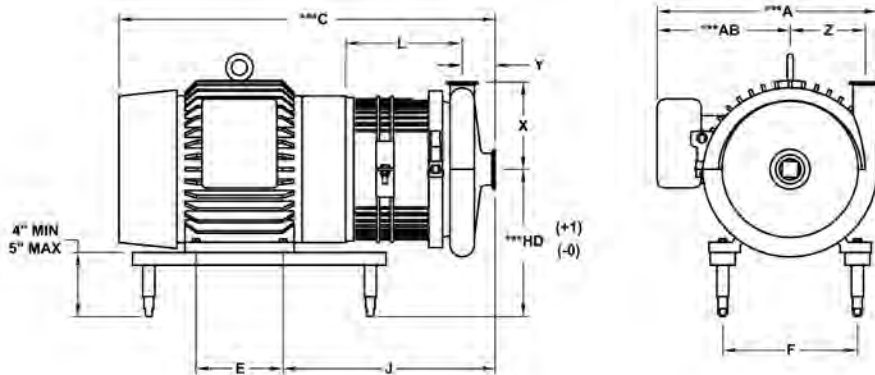
④ $\text{HP} \times 0.746 = \text{Kw}$

Viscosity and Specific Gravity Table for Various Products

Product	Specific Gravity	Viscosity
Acetic Acid		
5%	1.01	
10%	1.01	31.7 SSU @ 59°F
50%	1.06	33 SSU @ 59°F
80%	1.08	35 SSU @ 59°F
Animal Fat	0.9	130 SSU @ 115°F 50 SSU @ 200°F
Barbecue Sauce	1.05	11,500 SSU @ 40-75°F
Beer	1.02	32 SSU @ 68°F
Blood - Animal	.93-.98	15,000 SSU @ 55°F
Butter	.93-.98	15,000 SSU @ 55°F 440 SSU @ 90°F 220 SSU @ 115°F
Coconut Oil	0.92	125 SSU @ 106°F
Corn Oil	0.92	135 SSU @ 130°F 54 SSU @ 212°F
Corn Starch Solutions		
22 Baume	1.18	150 SSU @ 70°F 130 SSU @ 100°F
24 Baume	1.2	600 SSU @ 70°F 440 SSU @ 100°F
25 Baume	1.21	1400 SSU @ 70°F 800 SSU @ 100°F
Cottage Cheese	1.02	4,300 SSU
Dressing		
Cream (Sweet)	1	73 SSU
	.99	140 SSU
	.99	215 SSU
Egg Yolk	1.12	21,500 @ 35°F
Gelatin	1.01	1,380 - 2,580 SSU @ 160°F
Glucose	1.35 - 1.44	35M - 100M SSU @ 100°F 4M - 11M @ 150°F

Product	Specific Gravity	Viscosity
Honey	1.3	1250 - 1425 SSU @ 100°F
Ice Cream Mix	1.15	1050 SSU @ 46°F
Lard	0.96	287 @ 100°F
Linseed Oil	.92-.94	143 @ 100°F 93 @ 130°F
Malt Syrup	1.41	85,400 SSU @ 77°F
Maple Syrup	1.37	2,000 SSU @ 68°F
Margarine	0.93	13,900 SSU @ 84°F
Milk	1.02 - 1.05	31.5 @ 68°F
Molasses		
A. First	1.4 - 1.46	1300 - 23,500 SSU @ 100°F 700 - 8160 SSU @ 130°F
B. Second	1.43 - 1.48	6535 - 61,180 SSU @ 100°F 3058 - 15294 SSU @ 130°F
C. Blackstrap	1.46 - 1.49	12,190 - 255M @ 100°F
Mustard	1	17,000 SSU @ 85°F
Olive Oil	.91 - .92	200 SSU @ 100°F
Peanut Butter	1.2	77,400 SSU @ 110 - 140°F
Sesame Seed Oil	0.92	184 SSU @ 100°F 110 @ 130°F
Soy Bean Oil	0.91	500 SSU @ 44°F
Tomato Paste	1.14	60M - 80 M SSU 21M SSU approx.
Water	1	31 SSU @ 68°F

TOP-FLO® TF-C Series Close-Coupled Pump Dimensions



PUMP DIMENSIONS

PUMP MODEL	SUCTION	DISCHARGE	*X	*Y	**X	**Y	Z
TF-C100	1.500	1.000	3.500	1.554			1.453
TF-C114	1.500	1.500	3.625	1.594	3.875	1.844	2.625
TF-C216	2.000	1.500	4.500	1.906	4.750	2.156	3.688
TF-C218	2.000	1.500	5.500	1.719	5.750	1.969	4.750
TF-C328	3.000	2.000	5.500	2.219	5.750	2.719	4.750

PUMP AND MOTOR DIMENSIONS WITH "WASHDOWN" TOTALLY ENCLOSED BALDOR MOTORS

PUMP MODEL	FRAME	A	*C	**C	HD	AB	*J	E	F	L
TF-C100	56C	8.313	13.312		7.500	5.000	6.875	3.000	4.875	2.750
TF-C114	56C	8.313	16.821	17.071	7.500	5.000	10.375	3.000	4.875	6.219
	143 TC	8.563	17.813	18.063	7.500	5.250	10.844	4.000	5.500	6.219
	145 TC	8.563	19.848	18.063	7.500	5.250	10.688	5.000	5.500	6.219
	182 TC	9.813	20.938	21.180	8.500	5.875	12.219	4.500	7.500	6.781
	184 TC	9.813	23.790	24.915	8.500	5.875	12.000	5.500	7.500	6.781
TF-C216	56C	8.313	16.976	17.226	7.500	5.000	10.531	3.000	4.875	6.062
	143 TC	8.563	17.968	18.223	7.500	5.250	10.844	4.000	5.500	6.062
	145 TC	8.563	20.003	20.253	7.500	5.250	10.844	5.000	5.500	6.062
	182 TC	9.813	21.157	21.399	8.500	5.875	12.219	4.500	7.500	6.688
	184 TC	9.813	24.009	24.259	8.500	5.875	12.219	5.500	7.500	6.688
	213 TC	12.156	26.487	26.624	9.250	7.375	13.969	5.500	8.500	7.813
	215 TC	12.156	27.864	28.114	9.250	7.375	13.969	7.000	8.500	7.813
	254 TC	16.094	28.533	28.783	10.250	9.625	14.594	8.250	10.000	8.437
	256 TC	16.094	30.163	30.413	10.250	9.625	14.594	10.000	10.000	8.437
TF-C218	143 TC	8.563	18.036	18.281	7.500	5.250	10.281	4.000	5.500	6.312
	145 TC	8.563	20.066	18.286	7.500	5.250	10.281	5.000	5.500	6.312
	182 TC	9.813	21.211	20.941	8.500	5.875	12.281	4.500	7.500	6.938
	184 TC	9.813	24.071	24.321	8.500	5.875	12.281	5.500	7.500	6.938
	213 TC	12.156	25.686	25.936	9.250	7.375	13.281	5.500	8.500	7.312
	215 TC	12.156	27.176	27.426	9.250	7.375	13.281	7.000	8.500	7.312
	254 TC	16.094	28.096	28.346	10.250	9.625	14.157	8.250	10.000	8.188
	256 TC	16.094	29.726	29.977	10.250	9.625	14.157	10.000	10.000	8.188
	284 TC	20.438	33.916	34.166	11.000	13.125	15.281	9.500	11.000	8.812
	286 TC	20.438	33.916	34.166	11.000	13.125	15.281	11.000	11.000	8.812
TF-C328	182 TC	9.813	22.024	22.524	8.500	5.875	13.094	4.500	7.500	7.250
	184 TC	9.813	24.884	25.384	8.500	5.875	13.094	5.500	7.500	7.250
	213 TC	12.156	26.499	26.999	9.250	7.375	14.094	5.500	8.500	7.625
	215 TC	12.156	29.664	28.489	9.250	7.375	14.094	7.000	8.500	7.625
	254 TC	16.094	28.909	29.409	10.250	9.625	15.000	8.250	10.000	8.500
	256 TC	16.094	30.539	31.039	10.250	9.625	15.000	10.000	10.000	8.500
	284 TC	20.438	34.729	35.229	11.000	13.125	16.094	9.500	11.000	9.125
	286 TC	20.438	34.729	35.229	11.000	13.125	16.094	11.000	11.000	9.125
	324 TC	22.375	37.311	37.811	12.000	14.125	17.156	10.500	12.500	9.812
	326 TC	22.375	37.311	37.811	12.000	14.125	17.156	12.000	12.500	9.812

* WITH CLAMP CONNECTIONS (STANDARD)

** WITH THREADED BEVEL SEAT CONNECTIONS

*** DIMENSIONS ARE FOR BALDOR WASHDOWN MOTORS

OTHER MOTOR MANUFACTURERS DIMENSIONS MAY VARY

FLANGE MOTORS

NOTES:

ALL DIMENSIONS IN INCHES

DIMENSIONS ARE APPROXIMATE AND FOR GUIDANCE ONLY

THESE DIMENSIONS ARE FOR PUMPS USING NEMA STANDARD "C" FACE MOTORS