EXCEPTIONALLY HIGH FLOW RATE AND DISCHARGE HEAD CAPACITY FOR:



Series 'RT' process pumps are designed to provide leak-free, emission-free performance with long operating life. All wetted surfaces are non-metallic to provide superior chemical resistance in the most difficult chemical process and industrial applications. Carbon filled ETFE casing, liner and impeller magnet assembly enable the pump to handle some of the most aggressive acids, alkalies and organic solvents.

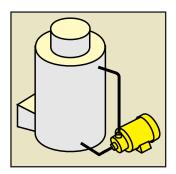
Durable ductile iron encasement ensures that mechanical strength equals or exceeds that of all-metal pumps. Bearing, spindle and liner ring are 99.8% alumina ceramic; also available in high density carbon or silicon carbide (SiC). Mouth ring is specially compounded Rulon[®]. Casing "O"-ring is available in EPDM, Viton[®] or Aflas.

PLATING / CHEMICAL PROCESSES RO / DI / STRONG ACIDS & ALKALIES PULP - PAPER / MINING / PHOTOGRAPHIC PHARMACEUTICAL / PETROCHEMICAL FERTILIZER PRODUCTION WATER TREATMENT

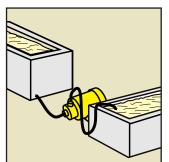
- Non-metallic solution contact ETFE (fluoropolymer) lined liquid end to 212°F (100°C)
- To 380 U.S. GPM or 165 Ft. TDH @ 60 Hz (1198 LPM or 35m TDH @ 50 Hz)
- Flanged connections, top discharge 21/2" x 2" and 3" x 21/2"
- Specific gravities to 2.0 Pumping efficiencies to 65%
- Optional dry run protection

Perforated external non-magnetic metal reinforcement of rear liner minimizes heat build-up due to eddy currents generated by the rotating magnets. This allows pumping of heat sensitive liquids as well as the ability to operate at near shut-off flow conditions. Minimum recommended flow rate is only 13 U.S. GPM (49 LPM).

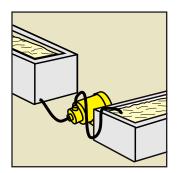
Simplicity of pump design allows many parts to be interchangeable between various models of common size. Inventory is thereby reduced, maintenance intervals extended and pump servicing becomes a simple task. Series 'RT' magnetic-coupled pumps combine strength with solution compatibility to meet the high level safety and environmental requirements of the chemical processing industries.



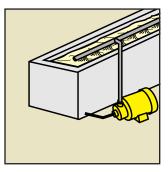
FUME SCRUBBER



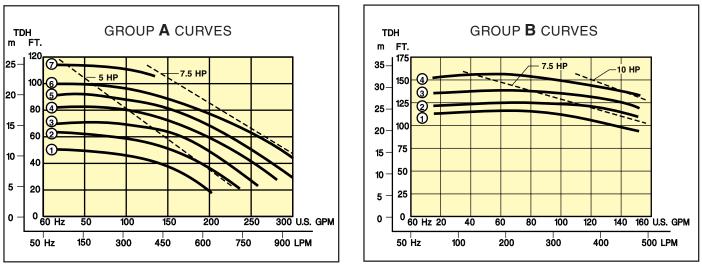
TRANSFER PUMPING



WASTE TREATMENT / FILTRATION

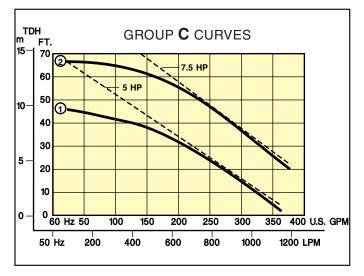


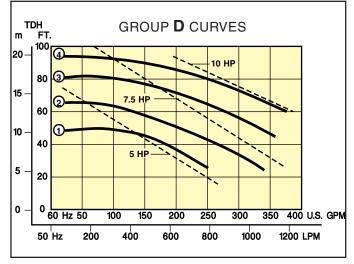
RECIRCULATION



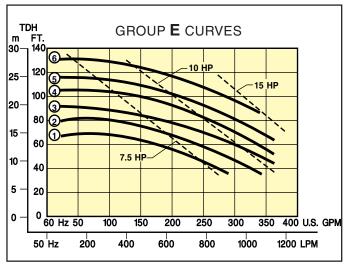
SERIES RT21/2 x 2 FLOW CURVES *

SERIES RT3 x 2½ FLOW CURVES *

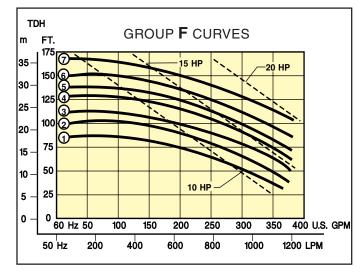




SERIES RT3 x 2½ FLOW CURVES *



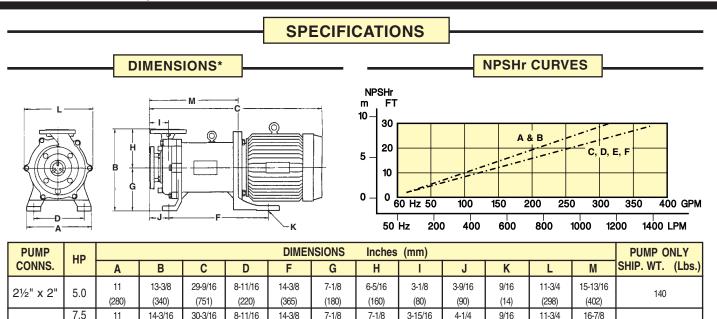
GPM @ 3450 RPM, LPM @ 2850 RPM Consult Application Engineering Dept for 50 Hz HP requirements.



140

170

SERIES 'RT' PUMP Specifications



(360) * Motor dimensions may vary. Use dimensions for reference only.

(360)

14-3/16

(767)

34-1/2

(876)

TO ORDER, use Price Code No.

(180)

7-1/8

(180)

(100)

3-15/16

(100)

(108)

4-1/4

(108)

(14)

9/16

(14)

(298)

11-3/4

(298)

(428)

16-7/8

(428)

(180)

7-1/8

(180)

For pump - motor combination, select components from table below.

(220)

8-11/16

(220)

(365)

14-3/8

(365)

To determine pump-motor for a specific flow, TDH and/ or specific gravity, select flow/pressure point on performance curve (solid line). Required horsepower is determined by the section of the impeller curve falling below and/or to the left of the dotted HP curve and multiplying the indicated HP by the specific gravity of the fluid to be pumped. Select pump,

then flow curve group, impeller curve, bearing, "O"-ring and motor; then compile Model and Price Code Numbers. Calculate Net Positive Suction Head Available (NPSHa) for the installation and refer to Net Positive Suction Head Required (NPSHr) curves above. NPSHa should be no less than NPSHr to avoid cavitation or related suction problems.

EXAMPLE:

3" x 21/2"

10.0

15.0

20.0

(280)

11

(280)

For RT21/2x2 pump and flow curve group A, impeller curve 1, carbon bearing, EPDM "O"-ring and 5.0 HP motor Typical Model No.: RT2½x2A С -D5.0 = RT21/2x2A-1CL-D5.0 -1 L + + + + Price Code No · 54-1 R - 5/-1111B 4

Price Code No.:			34-1	+	1 +	I	+ 1	+	D	= 54-1111	D	
Р	UMP		IMPELLER			BEARING				"O"-RING		
	FLOW	PRICE		ADD TO			ADD TO			ADD TO		
MODEL	CURVE GROUP ¹	CODE NO.	CURVE	MODEL	PRICE CODE NO.	MATERIAL	MODEL	PRICE CODE NO.	MATERIA	MODEL	PRICE CODE NO.	
RT2½x2	A	54-1	1	1	1	Carbon	С	1	EPDM	L	1	
	B	54-2	2	2	2	Alumina/	А	2	Viton	V	2	
RT3x2½		54-3 54-4	3 4 5 6	3 4	3 4	ceramic		2	Aflas	A	3	
	E F	54-4 54-5 54-6		5 6	5 6	Silicon carbide	S	3				
¹ Add to Model Number 7 7 7												
					MOTOR ²							

			MOTOR ²						
OPTIONAL			TEF	0	ADD TO		SHIPPING		
DESCRIPTION	MODEL	PRICE CODE NO.	NEMA FRAME	HORSE- POWER	MODEL	PRICE CODE NO.	WEIGHT Lbs.		
DRY RUN PROTECTOR prevents the pump from being damaged during abnormal pumping conditions (severe cavitation, dry running, etc.).	DR-RT	54-1000	184TC 213TC 215TC	5.0 7.5 10.0	D5.0 D7.5 D10.0	B C D	70 88 121		
Connect to the power supply and motor. No modification of pump or piping is necessary.			254TC 256TC	15.0 20.0	D15.0 D20.0	E F	203 262		

F.O.B. Northbrook, Illinois

Specifications subject to change without notice.

² 208-230/460V/3/60 or 190/380-415V/3/50



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SERFILCO also offers:

SELF-PRIMING PUMPS



SERIES 'S' A lightweight, chemically resistant plastic pump. Used for general service on water and chemicals within a pH range of 4 to 9.

END SUCTION CENTRIFUGAL PUMPS



SERIES 'HE' Enclosed impeller makes this chemically resistant plastic pump the most energy efficient. Available with single or double "water flush seals".

HAND OPERATED PUMPS



The hand dispensing pump is a double acting piston type which will handle a wide range of solutions. The pump body, valves, valve seats and piston are all made of chemically resistant, performance engineered plastics.