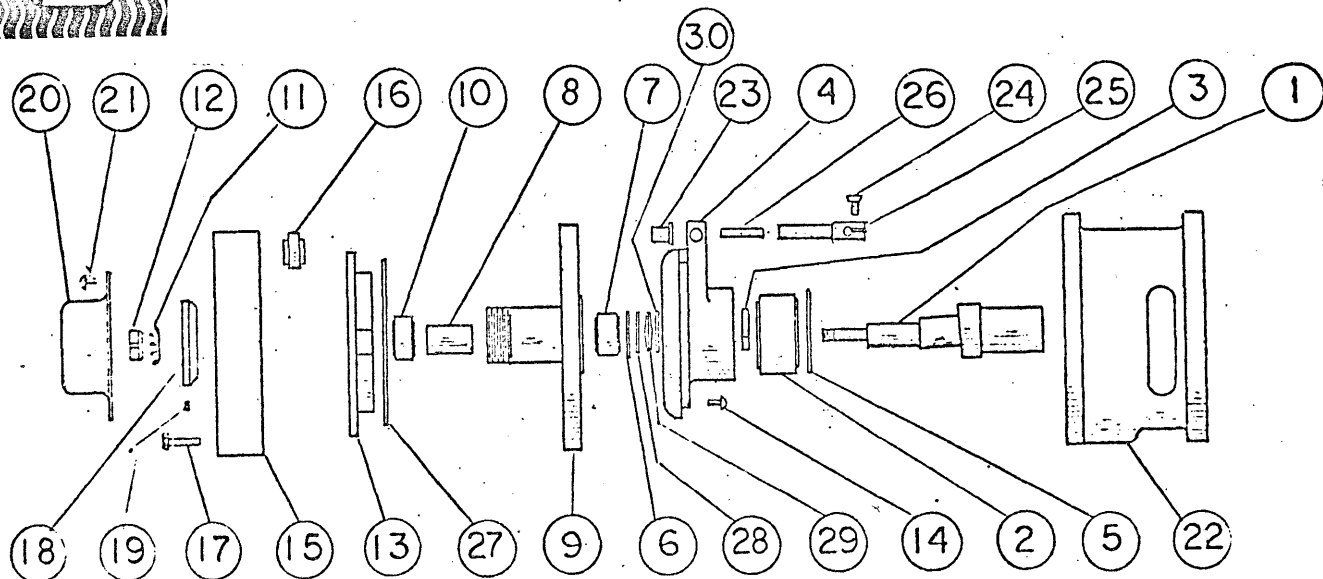


SERFILCO®

PARTS LIST
P-2200C
12/1/75

TOROIDAL DIAPHRAGM PUMP



ITEM NO.	PART NO.	QUANT. PER PUMP	DESCRIPTION	PRICE
1	55-801	1	Eccentric Shaft	\$ 61.00
2	55-802	1	Double Row Ball Bearing	15.50
3	55-803	1	External Retaining Ring	1.00
4	55-804	1	Piston	76.00
5	55-805	1	Internal Retaining Ring	3.00
6	55-806	1	Internal Retaining Ring	1.00
7	55-807	1	Double Row Ball Bearing	20.40
8	55-808	1	Bearing Spacer	5.00
9	55-809	1	Retainer	80.00
10	55-810	1	Ball Bearing	5.50
11	55-811	1	Bearing Lockwasher	2.00
12	55-812	1	Bearing Locknut	10.00
13*	55-813	1	Diaphragm - Neoprene(Blue)	60.00
	55-814		Diaphragm - Viton (Red)	80.00
	55-815		Diaphragm - Hypalon (Gray)	60.00
14	55-816	8	Socket Head Cap Screw (4-40x3/8)	.25
15*	55-817	1	Body - CPVC	140.00
	55-829	1	Body - Polypropylene	125.00
	55-830	1	Body - Teflon	465.00
	55-831	1	Body - Aluminum	135.00
16	55-818	1	Ball Bushing	8.50
17	55-819	6	Hex HD Cap Screw (1/4-20x2 1/4)	.30
18	55-820	1	Bearing Lock Nut	9.00
19	55-821	1	Socket Head Set Screw (8-32x1/4)	.25
20	55-822	1	Shaft Cover	8.00
21	55-823	6	Button Head Cap Screw (10-24x1/4)	.25
22	55-832	1	Pump Motor Connecting Bracket	45.00
23	55-825	2	Flanged Bushing	1.00
24	55-826	1	Flat Head Set Screw (10-24x3/8)	.25
25	55-827	1	Slider Pin	10.60
26	55-828	1	Dowel Pin	3.00
27	55-833	1	Anti-Friction Washer	5.00
28	55-834	1	Spacer Washer	.50
29	55-835	2	Tension Washer	.50
30	55-836	1	Bevel Spacer Washer	3.00

* Recommended Spare Part

TORODIAL PUMPIMPORTANT

1. The pump is constructed of CPVC* and the diaphragm of Neoprene, Viton or Hypalon. These are the only materials in contact with the solution being pumped.
2. Record all model and serial numbers for future reference and when contacting factory.

PRE-START-UP

1. Verify that materials of construction are compatible with solution being pumped.
2. Verify that operating temperature is not in excess of pump design temperature (200°F).
3. All single phase motors are equipped with cord and plug and wired for use on 115 volts.
4. Check electric power source for proper voltage and phase.

START-UP

1. Wet interior of pump by filling suction or discharge hose with solution being pumped and lifting hose above the pump. This is necessary only on initial start-up.
2. The Toroidal pump can be run in either direction so that inlet and outlet are reversible. When facing the pump end the inlet is on the left when rotation is clockwise.
3. This is a positive displacement pump and does not require priming. Pump can be run dry for short periods of time without damaging any pump parts.
4. Inlet and outlet ports are 1/2 NPT, hose barbs or pipe can be attached to these ports. It is suggested that Teflon tape be used on the pipe threads for proper sealing and easy removal.
5. Speed on the variable speed motor is controlled by turning the knob at the rear of motor.

PUMP SERVICE

A spare diaphragm should be ordered as a spare part to minimize down time in the event a new diaphragm is required.

TO REPLACE BODY OR DIAPHRAGM

1. Remove shaft cover (item #20), using a 3/32 hex key on 3 buttonhead screws.
2. Loosen set screw (item #19) on bearing lock nut (item #10), use a 5/64 hex key. Remove bearing lock nut using spanner wrench or appropriate tool.
3. Remove (6) 1/4-20X2 1/4 hex head cap screws located on front of body. Pull body away from motor-pump connecting bracket.
4. Bend back locking tab on bearing lock washer and remove bearing lock nut. Tap end of shaft w/plastic or rawhide hammer and piston assembly can be removed from the pump body.
5. Remove diaphragm from piston by removing (8) socket head machine screws, using 3/32 hex key.
6. Peel diaphragm out of its seat in the body and piston.
7. When installing diaphragm into body, start inserting diaphragm into body at groove between the suction and discharge ports. Push diaphragm into groove, working it into the outer groove and then the inner groove.
8. Insert end of retainer through center hole in body and over the outer diameter of diaphragm, attach bearing locknut (item 18), to retainer but do not lock. Align holes in retainer with holes in body and the large hole for the slider pin.
9. Insert piston over raised top of diaphragm and inserting slider pin (item 25) into ball bushing. Fasten piston to diaphragm using (8) socket head cap screws.
10. Hold pump assembly in your hands and align key slot in coupling of shaft with key on motor shaft. Slide coupling on motor shaft and push pump body up to the connecting bracket. Fasten pump body to connecting bracket using (6) 1/4-20X2-1/4 hex head cap screws.
11. Tighten ball bearing locknut and lock in place with set screw.
12. Adjust piston stroke by tightening bearing locknut until it feels snug on shaft. Lock in place with lockwasher.

DIAPHRAGM ADJUSTMENT

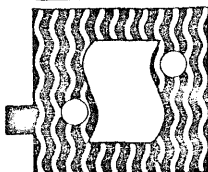
If pump does not prime after wetting interior or fails to pump, it may be caused by the diaphragm not being pressed deep enough in the circular groove in the pump body. Adjust by bending back locking tab on bearing locknut (item #12), and tightening bearing locknut approximately one turn. Lock bearing locknut and try pump. If it fails to operate repeat operation.

REPLACEMENT OF BEARINGS

It is suggested that the pump be returned to the factory for bearing replacement. Special tooling is required to replace bearings.

- * Polypropylene, Teflon, Aluminum are optional.

F.O.B. Northbrook, Illinois Terms: 1 - 10, Net 30 Prices contained herein subject to change without notice.



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