

Series 600 "dia-PUMP"

The only pumps with EZE-CLEAN™ valves.

High Pressure-High Volume Diaphragm Pumps

Features

- Capacities to 240 gph (908 lph)
- Pressures to 4000 psi (280 kg/cm²)
- Accepts standard 56C motor.
- Pump capacity is adjustable by micrometer dial while pump is running or stopped.
- Capacity Control Options: Electric positioners or variable speed drives are available for automatic capacity control.
- EZE-CLEAN™ valves are removable without disturbing piping.
- Variable Oil By-pass™ stroke adjustment allows improved valve performance over variable linkage designs. (See Bulletin DP-1100 for details on "How It Works".)
- Hydraulically balanced Teflon® diaphragm eliminates stress.
- Power train operates submerged in oil for extended service.

Neptune
CHEMICAL PUMP CO., INC.

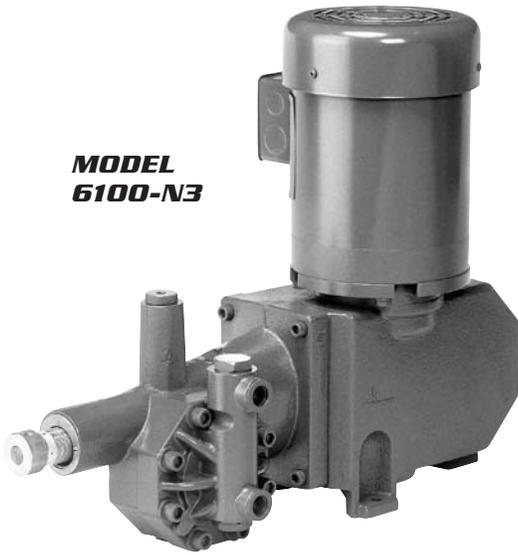


**MODEL
635-N3**

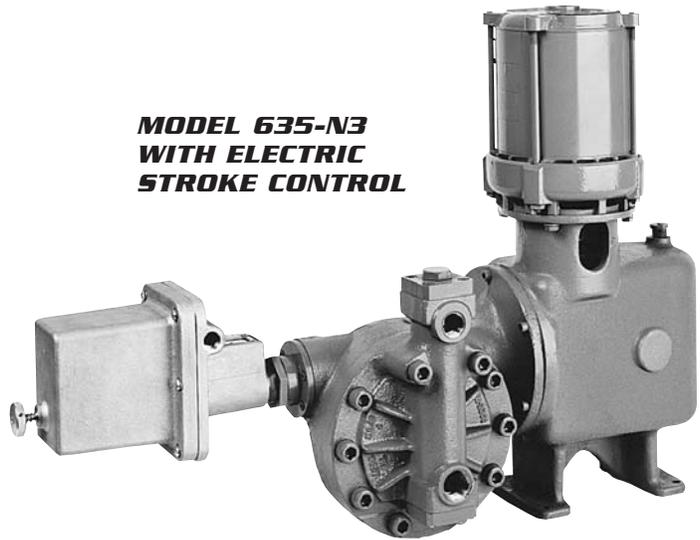


For Smaller Units request Bulletin DP-1100.
For Higher Capacities and High Viscosity request Bulletin DP-7000.

**MODEL
6100-N3**



**MODEL 635-N3
WITH ELECTRIC
STROKE CONTROL**



SERIES 600/6000 “dia-PUMP” PUMP SELECTION CHART

MODEL NUMBER	MATERIALS OF CONSTRUCTION	MAXIMUM PRESSURE CAPABILITY	PISTON DIAMETER (INCHES)	STROKES PER MINUTE	HORSEPOWER / PRESSURE / CAPACITY MAXIMUM PRESSURE AND CAPACITY AT MAXIMUM PRESSURE				
					1/2 HP	3/4 HP	1 HP	1-1/2 HP	2 HP
6100-N3	316SS	4000 PSI (280 KG/CM ²)	0.75	58	1200 PSI (84 KG/CM ²) 7.0 GPH (26.5 LPH)	2000 PSI (140 KG/CM ²) 7.0 GPH (26.5 LPH)	2500 PSI (175 KG/CM ²) 6.5 GPH (24.5 LPH)	3500 PSI (245 KG/CM ²) 6.0 GPH (23 LPH)	4000 PSI (280 KG/CM ²) 4.5 GPH (16 LPH)
6150-N3	316SS				1000 PSI (70 KG/CM ²) 14.7 GPH (56 LPH)	1500 PSI (105 KG/CM ²) 14.5 GPH (55 LPH)	2000 PSI (140 KG/CM ²) 14.0 GPH (53 LPH)	3000 PSI (210 KG/CM ²) 13.0 GPH (50 LPH)	3500 PSI (245 KG/CM ²) 12.5 GPH (47 LPH)
6250-N3	316SS	2000 PSI (140 KG/CM ²)	1.00	117	500 PSI (35 KG/CM ²) 28.0 GPH (106 LPH)	800 PSI (56 KG/CM ²) 28.0 GPH (106 LPH)	1000 PSI (70 KG/CM ²) 28.0 GPH (106 LPH)	1500 PSI (105 KG/CM ²) 27.5 GPH (103 LPH)	2000 PSI (140 KG/CM ²) 26.0 GPH (97 LPH)
635-N3	316SS	600 PSI (42 KG/CM ²)	2.00	117	N/A	225 PSI (16 KG/CM ²) 130.0 GPH (492 LPH)	275 PSI (19 KG/CM ²) 130.0 GPH (492 LPH)	425 PSI (30 KG/CM ²) 129.0 GPH (488 LPH)	600 PSI (42 KG/CM ²) 126.0 GPH (477 LPH)
635-N4	C-20								
635-N5	PVC*	150 PSI (10 KG/CM ²)	2.00	117	N/A	150 PSI (10 KG/CM ²) 130.0 GPH (492 LPH)	N/A	N/A	N/A
635-N8	Kynar®								
637-N3	316SS	600 PSI (42 KG/CM ²)	2.00	144	N/A	225 PSI (16 KG/CM ²) 160.0 GPH (605 LPH)	275 PSI (19 KG/CM ²) 160.0 GPH (605 LPH)	425 PSI (30 KG/CM ²) 158.0 GPH (597 LPH)	600 PSI (42 KG/CM ²) 154.0 GPH (582 LPH)
637-N4	C-20								
637-N5	PVC*	150 PSI (10 KG/CM ²)	2.00	144	N/A	150 PSI (10 KG/CM ²) 160.0 GPH (605 LPH)	N/A	N/A	N/A
637-N8	Kynar®								
647-N3	316SS	200 PSI (14 KG/CM ²)	2.50	144	N/A	N/A	N/A	N/A	200 PSI (14 KG/CM ²) 240.0 GPH (908 LPH)
647-N4	C-20								
647-N5	PVC*	150 PSI (10 KG/CM ²)	2.50	144	N/A	N/A	N/A	N/A	150 PSI (10 KG/CM ²) 240.0 GPH (908 LPH)
647-N8	Kynar®								

*PVC head pumps are satisfactory for temperatures to 125°F/52°C.

SERIES 600/6000 “dia-PUMP” MOTOR SELECTION CHART

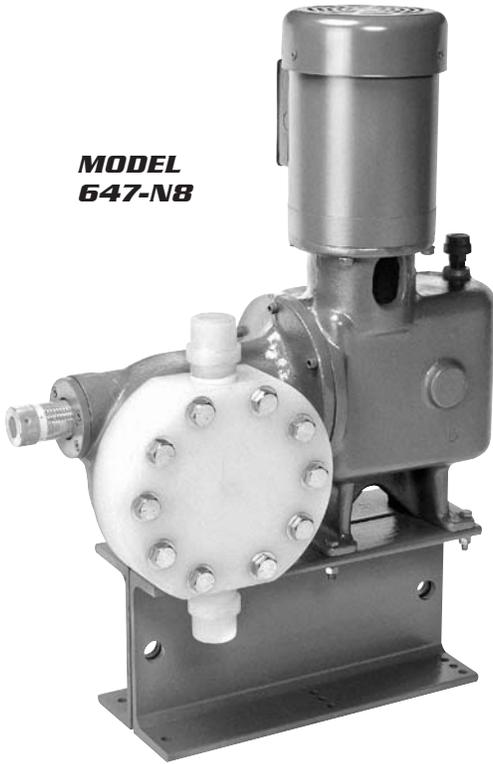
ENCLOSURE	PHASE	VOLTAGE	1/2 HP	3/4 HP	1 HP	1-1/2 HP	2 HP
TEFC	1	115/230	100740	100747	100753	N/A	N/A
TEFC	3	230/460	100742	100749	100755	100761	100767
EXP	1	115/230	100744	100751	100757	N/A	N/A
EXP	3	230/460	100745	100752	100758	100764	100770
CPSD	1	115/230	100741	100748	100754	N/A	N/A
CPSD	3	230/460	100746	100750	100756	100762	100768

To select correct motor, determine required horsepower from chart above.

Determine power supply voltage and phase. Determine enclosure requirement. Select motor from chart at left.

Neptune has available Totally Enclosed Fan Cooled (TEFC), Explosion Proof (EXP), and Chemical Plant Severe Duty (CPSD) enclosures in all sizes required for the Series 600 Pump.

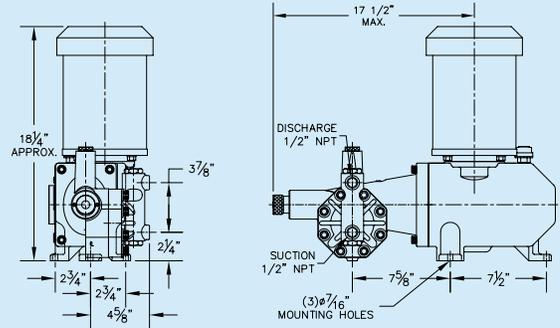
**MODEL
647-N8**



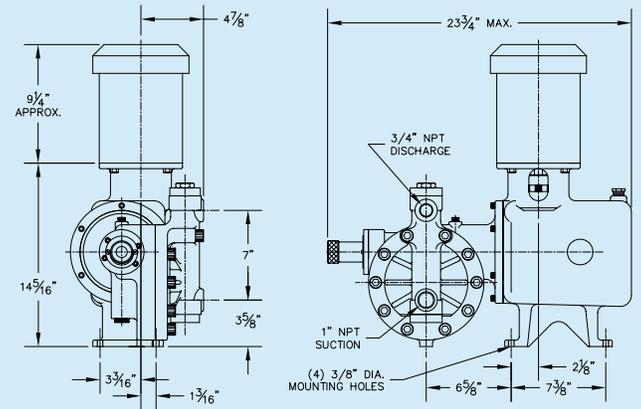
NOTES

- CAPACITY:** Capacity figures are based on water using 1725 rpm motor. Capacity will decrease by approximately 1.5% for each 100 psi increase in pressure.
- ACCURACY:** Accuracy is $\pm 1\%$ of full scale over the range of 10% to 100% of capacity.
- TEMPERATURE/VISCOSITY:** Contact factory for temperatures over 200°F (93°C) or viscosity greater than 1000 centipoise.

DIMENSIONS



MODELS 6100/6150/6250 (316SS HEADS)



MODELS 635/637 (316SS & C-20 HEADS)

MATERIALS OF CONSTRUCTION

PART	CODE N3	CODE N4	CODE N5	CODE N8
Liquid Head	316SS	C-20	PVC*	Kynar®
Diaphragm	Teflon®	Teflon®	Teflon®	Teflon®
Valve Body & Seat	316SS	C-20	PVC*	Kynar®
Valve Checks	316SS	C-20	Ceramic**	Ceramic**
"O"-rings	Viton®	Viton®	Viton®	Viton®

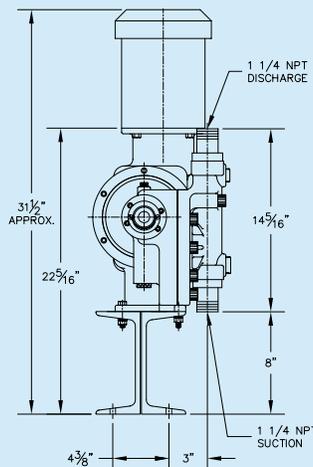
* PVC head pumps satisfactory for temperatures to 125°F/52°C.

** Special materials available for services not compatible with ceramic.

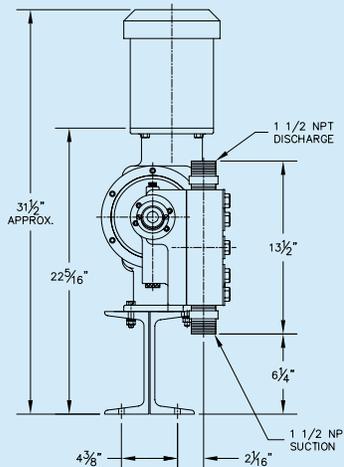
ORDERING INFORMATION

When ordering, please include the following information:

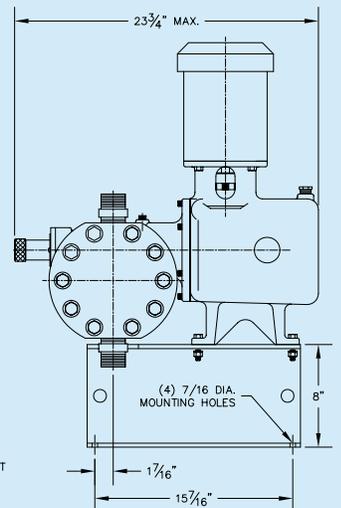
- Description of liquid to be pumped. Include chemical name, concentration, viscosity, pH and temperature of solution.
- Maximum, normal and minimum pump capacity required.
- Discharge pressure required.
- Suction conditions.
- Motor characteristics required.



**MODEL 647
(316SS & C-20 HEADS)**



**MODELS 635/637/647
(PVC & KYNAR HEADS)**



**MODELS 635/637 (PVC & KYNAR)
MODEL 647 (ALL MATERIALS)**

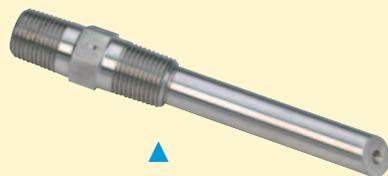
Other Quality Products by Neptune



CHEMICAL FEED SYSTEMS

Neptune manufactures a complete selection of standard and custom chemical feed systems. Skid-mounted systems include all components, factory piped, wired and tested. Flexible configurations to fit any requirements. Request Bulletins FDP/CFS

Built to your specifications or designed to meet your needs.



HIGH PRESSURE INJECTION QUILLS

Available with or without check valve in 1/2" and 3/4" sizes.

Materials: CPVC, Kynar, 316SS and Carpenter C20-Cb3.

Request Bulletin CS

SAMPLE COOLERS

Heat exchange area one sq. foot. Available in all 316SS or with Inconel 600 coil and 316SS shell.

Request Bulletin SC

For larger sizes:
Request Bulletin W9150



POLYMER BLEND & FEED

Neptune's Polymaster™ dilutes, mixes and thoroughly activates emulsion, dispersion and solution polymers including new high molecular weight products.

Request Bulletin PM



SERIES 7000 "dia-PUMP"

Mechanically actuated diaphragm metering pumps. Self-priming, suction lift to 20 feet, viscosity in excess of 10,000 cps, capacity to 300 gph. For water, wastewater and process applications.

Request Bulletin DP-7000



PORTABLE MIXERS

Neptune offers mixers for use with tanks, drums, pails and totes. Direct-drive and gear-drive models from 1/20 HP through 5 HP.

Request Portable
Mixer Catalog



Neptune

CHEMICAL PUMP CO., INC.

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Toll-Free Fax: 1-800-255-4017
Web Site: <http://www.neptune1.com>
E-mail: pump@neptune1.com