Series 7000 "dia-PUMP"



Neptune Series 7000 Mechanically Actuated Diaphragm Metering Pumps

Features

- Capacities to 300 gph;
 Pressures to 150 psi
- Pump capacity is adjustable by micrometer dial while the pump is running
- 10 turn micrometer dial calibrated in 1% increments; Bright colored contrasted dial protected by clear PVC covering
- Micrometer stroke length adjustment allows 10:1 turndown
- Variable speed drives allow greater turndown range or automatic capacity control
- All moving parts run submerged in oil for extended service
- All models accept standard 56C frame motors;
 70XX models available also with integral motors



MATERIALS OF CONSTRUCTION

	MATERIAL CODE	PUMP HEAD	VALVE CHECK	DIAPHRAGM
	N3	316SS	316SS	Teflon®
	N5	PVC*	Ceramic	Teflon®
-	N8	Kynar**	Ceramic	Teflon®

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

SELECTION CHART

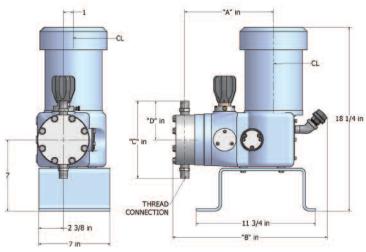
†Use next larger motor for VS drive or SCR drive applications.

MODEL	CAPACITY	PRESSURE PSI (KG/CM ²)	VISCOSITY (CPS)	STROKES PER MINUTE	STROKE LENGTH (mm)	DIAPHRAGM DIAM. (mm)	†MOTOR SIZE REQUIRED FOR OPERATION AT:			
NUMBER	GPH (LPH)						50 PSI	75 PSI	100 PSI	150 PSI
7001-NX	6 (23)	150 (11)	1000	18	6.3	88	1/3	1/3	1/3	1/3
7000-NX	12 (45)	150 (11)	1000	37	6.3	88	1/3	1/3	1/3	1/3
7020-NX	25 (94)	150 (11)	1000	72	6.3	88	1/3	1/3	1/3	1/3
7050-NX	40 (151)	150 (11)	1000	117	6.3	88	1/3	1/3	1/3	1/2
7070-NX	50 (189)	150 (11)	1000	144	6.3	88	1/3	1/3	1/3	1/2
7101-NX	13 (49)	150 (11)	5000*	18	14	100	1/3	1/3	1/3	1/3
7100-NX	25 (94)	150 (11)	5000*	37	14	100	1/3	1/3	1/3	1/3
7120-NX	50 (189)	150 (11)	5000*	72	14	100	1/3	1/3	1/3	1/2
7150-NX	80 (303)	150 (11)	5000*	117	14	100	1/3	1/3	1/2	3/4
7200-NX	95 (360)	100 (8)	5000*	37	18	200	1/3	1/2	3/4	N/A
7220-NX	185 (700)	100 (8)	5000*	72	18	200	1/2	3/4	1	N/A
7250-NX	300 (1135)	100 (8)	5000*	117	18	200	1	1-1/2	2	N/A

^{*}Up to 20,000 CPS depending on suction condition and stroking speed. Contact Factory for applications over 5,000 CPS for assistance.

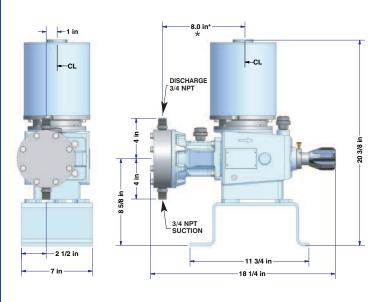
^{**} Kynar head pumps are satisfactory for temperatures to 200°F/95°C.

70XX MODELS



MODELS	"A"	"B"	"C"	"D"	MNPT Thread Connection Suction & Discharge
70XX-N3	10"	15-3/4"	3-3/4"	3-3/8"	3/8"
70XX-N5 & N8	8-3/4"	15-1/4"	7-5/8"	3-13/16"	1/2"

71XX MODELS

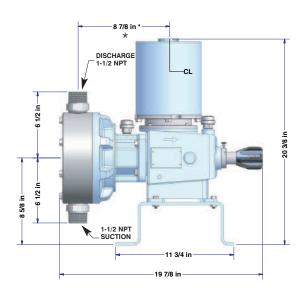


72XX MODELS



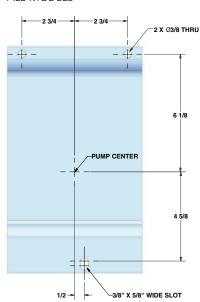
*Dimension is for N3 (316SS) as shown. Add 1/4" for N5 (PVC) and N8 (Kynar) models.





BOTTOM VIEW OF PUMP BASE

ALL MODELS



APPLICATIONS INFORMATION

- **1. External Relief Valve** An external relief valve is always required to protect the pump from the damage caused by the overpressure in case the discharge line is accidentally closed when the pump is in operation.
- **2. Pulsation Dampener** Use of a pulsation dampener is required if the discharge pipe is over 10 ft. long for the models 70XX and 71XX and over 5 ft. long for models 72XX and the discharge pressure is over 25 PSI.
- 3. Recommended Pipe Diameter and Length

	PUMP MODELS	SUCTION PIPE DIAMETER	MAXIMUM LIFT IN FEET	DISCHARGE PIPE DIAMETER	MINIMUM ORIFICE DIAMETER AT INJECTION POINT
	70XX	*1/2"	20'	1/2"	3/8"
	71XX	1"	20'	1/2 "	1/2"
Ī	72XX	2"	15'	1"	1"

^{*}Use 3/4" for 50 GPH Model

4. Use only full port valves in suction and discharge lines.

Chemical Feed Accessories

RELIEF VALVES PVC, 316SS and Alloy 20 standard. Request **Bulletin RV**

PVC, 316SS and Alloy 20 standard. Can also be used as relief valves. Request

Bulletin BP

PRESSURE

VALVES

BACK





CALIBRATION COLUMNS

Standard sizes 100, 250, 500, 1,000 and 4,000 ml.

Request Bulletin CC

PULSATION DAMPENERS

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