

Thermo Scientific Manostat Kate

Variable Flow Dispenser Pump



Ideal for a wide variety of life science and medical applications:

- Sample prep
- General dispensing
- Media dispensing
- Dilution blanks
- Dispensing diagnostics
- Reagents
- Biopharmaceuticals
- Agrochemicals
- Oil analysis
- Sampling, testing
- Filling

Features

- Dispense volumes from 0.5 to 1070 ml/cycle.
- Dispense time control lets you set dispense time from 0.2 to 20 seconds.
- Variable flow from 1 ml/min to 3450 ml/min.
- Analog single-turn speed control.
- Lighted on/off switch. The on/off switch allows you to maintain your flow rate setting when pump is turned on.
- Stackable painted steel housing is IP22.
- Removable 6 ft. (1.8m) line cord -US standard plug on 115 VAC models, IEC 320/CEE socket on 230 VAC models.
- All units are equipped with a pump status jack that can be used to operate remote relays to start/stop other equipment being utilized with dispenser.
- All 115 VAC models meet UL, and cUL; 230 VAC models meet CE regulations.
- All drives come complete with pump head, dispensing handle and 4 ft. of Silicone tubing (Size 17).
- The chemically-resistant pump head (molded of glass filled Noryl®) has three stainless steel rollers and a plexiglass safety cover.
- Operating temperature 0-40°C.



Specification & Ordering Information								
Model	Cat. No.	RPM	Speed	Motor	IP	Dims (cm)	Shpg.	Power
KATE	72-620-000	24-720	3%	1/10 HP	IP22	26 x 22.9 x 113	5.6 Kg	90-130 VAC
	72-620-230	24-720	3%	1/10 HP	IP22	26 x 22.9 x 113	5.6 Kg	190-260 VAC
Flow Rates in ml/min @ 24-720 rpm speed range								
Model	Tubing Sizes	13	14	16	25	17	18	
KATE	ml/min	1-35	5-200	25-750	60-1700	90-2650	135-3450	
	Tube I.D. Size (")	1/32	1/16	1/8	3/16	1/4	5/16	

Dispensing Volume ml/cycle @ 24-720 rpm speed range							
Model	Tubing Sizes	13	14	16	25	17	18
KATE	ml/cycle	0.5-12	1-35	3.5-190	14-420	13-710	35-1070
	Tube I.D. Size (")	1/32	1/16	1/8	3/16	1/4	5/16

Tubing Specifications

	Tubing Sizes	13	14	16	25	17	18
Formulation	Inside Dia	0.03	0.06	0.12	0.19	0.25	0.31
	Hose Barb	1/16	1/16	1/8	3/16	1/4	5/16
	Max Pressure	15 PSI	25 PSI	25 PSI	25 PSI	15 PSI	10 PSI
Pharmed® BPT	Max Vacuum	26" hg	26" hg	26" hg	26" hg	20" hg	20" hg
	Tubing 50 ft/pk	75-301-013	75-301-014	75-301-016	75-301-025	75-301-017	75-301-018
	Pumping Links	72-301-135	75-301-145	75-301-165	75-301-255	75-301-175	*
	Max Pressure	15 PSI	25 PSI	25 PSI	25 PSI	15 PSI	10 PSI
	Max Vacuum	26" hg	26" hg	26" hg	26" hg	20" hg	20" hg
Norprene® Food	Tubing 50 ft/pk	75-301-013	75-301-014	75-301-016	75-301-025	75-301-017	75-301-018
	Pumping Links	72-301-135	75-301-145	75-301-165	75-301-255	75-301-175	*
	Max Pressure	10 PSI	10 PSI	10 PSI	10 PSI	10 PSI	10 PSI
	Max Vacuum	26" hg	26" hg	26" hg	26" hg	20" hg	20" hg
Silicone (Pt Cure)	Tubing 25 ft/pk	75-301-013	75-301-014	75-301-016	75-301-025	75-301-017	75-301-018
	Pumping Links	72-301-135	75-301-145	75-301-165	75-301-255	75-301-175	*
	Max Pressure	15 PSI	25 PSI	25 PSI	25 PSI	15 PSI	10 PSI
	Max Vacuum	26" hg	26" hg	26" hg	26" hg	20" hg	20" hg
Tygon®	Tubing 25 ft/pk	75-301-013	75-301-014	75-301-016	75-301-025	75-301-017	75-301-018
	Kate	72-301-135	75-301-145	75-301-165	75-301-255	75-301-175	*
	Max Pressure	15 PSI	25 PSI	25 PSI	25 PSI	15 PSI	10 PSI
	Max Vacuum	26" hg	26" hg	26" hg	26" hg	20" hg	20" hg

Tubing Formulation

	Physical Characteristics and Composition	Temperature Range	Meets Classifications
Pharmed® BPT	Thermoplastic elastomer. Polypropylene-based material with USP mineral oil. Excellent tensile strength. Firm (stiff) material. Opaque, beige.	-75 to 275°F (-59 to 135°C)	USP Class VI FDA21 CFR 177.2600
Norprene® Food	Thermoplastic elastomer. Polypropylene-based material with USP mineral oil. Excellent tensile strength. Firm (stiff) material. Opaque, beige.	-75 to 275°F (-59 to 135°C)	FDA21 CFR 177.2600 NSF Listed (Standard 51)
Silicone Platinum Cured	Thermal set rubber Siloxane polymers and amorphous silica. Excellent compression strength. Soft material Translucent, clear to light amber.	-60 to 460°F (-51 to 232°C)	USP Class VI FDA21 CFR 177.2600
Tygon® R-3603	Thermoplastic. PVC-based material with plasticizer. Firm (stiff) material. Transparent, clear.	-58 to 165°F (-50 to 74°C)	FDA21 CFR 175.300

Tubing Cross Sections

