



# Datasheet

ENGLISH

## Micropumps

Pump Type	RS Part No	Flow/Feed Configuration	Data Input Voltage (V)	Input Voltage range (V)	
<b>Diaphragm Pumps</b>					
D200-03	702 6894	Parallel, 4 Way	2.5	1.5 - 5.0	
D250-03	702 6898	Parallel, 4 Way	2.5	1.5 - 5.0	
<b>Centrifugal Pumps</b>					
M400-S	702 6872	Vertical	12.0	3.0 - 12.0	
M400-SUB	702 6885	Submersible	12.0	3.0 - 12.0	
M400-S180	702 6882	In-line	12.0	3.0 - 12.0	
M400-K	702 6876	Vertical	12.0	3.0 - 12.0	
M400-KSUB	702 6888	Submersible	12.0	3.0 - 12.0	
M400-K180	702 6891	In-line	12.0	3.0 - 12.0	
			Current (A)	Power Usage (W)	Tubing Bore Size (mm)
<b>Diaphragm Pumps</b>					
D200-03	702 6894		0.19	0.48	2.4
D250-03	702 6898		0.19	0.48	2.4
<b>Centrifugal Pumps</b>					
M400-S	702 6872		0.5	6.00	5.0
M400-SUB	702 6885		0.5	6.00	5.0
M400-S180	702 6882		0.5	6.00	5.0
M400-K	702 6876		0.5	6.00	3.2
M400-KSUB	702 6888		0.5	6.00	3.2
M400-K180	702 6891		0.5	6.00	3.2



		<b>Water Free Flow Rate (ml/min)</b>	<b>Water Delta Pressure</b>	<b>Air Free Flow Rate (ml/min)</b>	<b>Air Max Delta Pressure (psi)</b>
<b>Diaphragm Pumps</b>					
D200-03	702 6894	40	16	150	4
D250-03	702 6898	40	18	150	5

<b>Centrifugal Pumps</b>					
M400-S	702 6872	2800	5	na	na
M400-SUB	702 6885	2800	5	na	na
M400-S180	702 6882	2800	5	na	na
M400-K	702 6876	2000	5	na	na
M400-KSUB	702 6888	2000	5	na	na
M400-K180	702 6891	2000	5	na	na

		<b>Weight (g)</b>	<b>Size (mm)</b>	<b>Maximum Viscosity (cSt)</b>	<b>Noise (dba)</b>
<b>Diaphragm Pumps</b>					
D200-03	702 6894	32	40x25x17	20	15
D250-03	702 6898	38	40x25x17	20	15
<b>Centrifugal Pumps</b>					
M400-S	702 6872	33	41x26x25	30	15
M400-SUB	702 6885	36	41x26x25	30	15
M400-S180	702 6882	33	41x26x25	30	15
M400-K	702 6876	33	41x26x25	20	15
M400-KSUB	702 6888	36	41x26x25	20	15
M400-K180	702 6891	33	41x26x25	20	15



		<b>IP Rating</b>	<b>Temperature Range [C]</b>	<b>Max Pressure (Bar)</b>
<b>Diaphragm Pumps</b>				
D200-03	702 6894	50	0 to 100	1.0
D250-03	702 6898	50	0 to 100	1.5

<b>Centrifugal Pumps</b>				
M400-S	702 6872	52	-20 to 120	1.0
M400-SUB	702 6885	68	-20 to 120	1.0
M400-S180	702 6882	52	-20 to 120	1.0
M400-K	702 6876	52	-20 to 120	1.0
M400-KSUB	702 6888	68	-20 to 120	1.0
M400-K180	702 6891	52	-20 to 120	1.0

**Wetted Materials**

<b>Diaphragm Pumps</b>	<b>RS Part No</b>	<b>Body</b>	<b>Connectors</b>	<b>Impeller</b>	<b>Seals</b>
D200-03	702 6894	Nylon	Nylon	na	Silicone & Nitrile
D250-03	702 6898	Anodised Aluminium	Stainless Steel 316	na	Silicone & Nitrile

<b>Centrifugal Pumps</b>					
M400-S	702 6872	Anodised Aluminium	Stainless Steel 316	Acetal	Viton
M400-SUB	702 6885	Anodised Aluminium	Stainless Steel 316	Acetal	Viton
M400-S180	702 6882	Anodised Aluminium	Stainless Steel 316	Acetal	Viton



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### Wetted Materials

Diaphragm Pumps	RS Part No	Body	Connectors	Impeller	Seals
M400-K	702 6876	Anodised Aluminium	Stainless Steel 316	Acetal	Viton
M400-KSUB	702 6888	Anodised Aluminium	Stainless Steel 316	Acetal	Viton
M400-K180	702 6891	Anodised Aluminium	Stainless Steel 316	Acetal	Viton

### Compatibility - Liquids/Solutions

#### Excellent

RS Coolant (RS Part no 480 172), Alcohol Ethyl, Beer, Coffee, Diesel Fuel, Linseed Oil, Olive Oil, Palm Oil, Petrol-Unleaded, Grape Juice, Kerosene, Milk, Sodium Nitrate, Silicone light oil, Starch, Turpentine.

#### Good

Antifreeze, Benzene, Bleach, Calcium Carbonate, Chromic Acid 10%, Cider, Citric Oil, Citric Acid, Detergents, Epsom Salts (Magnesium Sulphate), Ethanol, Ether, Formic Acid, Fuel Oils, Freon 12, Hydrogen Peroxide <2%, Ink, Magnesium Nitrate, Methanol, Nitric Acid<5%, Parafin, Phosphoric Acid<30%, Polypropylene Glycol, Sea Water, Soap Solution, Sodium Carbonate, Urine, Vinegar, Weed Killer, Whiskey, Wines. Xylene, Zinc Chloride.

#### Poor

Acetone, Ammonia, Hydrochloric Acid >10%, Ketones, Phosphorous Trichloride, Sodium Hydroxide >20%, Sulphuric Acid >10%, Toluene.

### Flow Adjustability

Input Voltage may be varied to within voltage range stated to adjust flow. Flow of M400 range may be restricted/controlled. M400 range can be run even if the flow is 100% restricted.

### MAINS POWER SUPPLY REQUIREMENTS

Diaphragm Pumps: Adjustable working voltage range : 1.5v to 6.0v, Current available to 250mA

Centrifugal Pumps: Adjustable working voltage range : 3.0v to 12.0v, Current available to 1000mA