

# ML Frame

**“A range of pumps designed to be directly interchangeable with traditional pin joint style pumps”.**

## Typical Applications

<b>Capacity</b>	up to 380 gpm	<ul style="list-style-type: none"> <li>• Sludges and lime slurry</li> <li>• Mineral processing</li> <li>• Industrial chemicals, detergents, pastes and gels</li> <li>• Crude oil, waste oil, oily/water separations</li> <li>• Fruit slurries, sauces, starches</li> <li>• Coating slurry, starch and clays</li> <li>• Mine water</li> </ul>
<b>Pressure</b>	up to 225 psi	
<b>Temperature</b>	14°F up to 230°F	

### Easy maintenance

Simple pin type universal joint drive assembly for easy on-site maintenance.

### Materials of construction

Available in cast iron or stainless steel housings, with a choice of rotor and stator materials to suit individual applications e.g. tool steel rotor or natural rubber stator.

### Low running speeds

Reduced wear for a longer working pump life which extends the periods between routine maintenance. Think of the savings that could be realized on abrasive applications.

### Gentle pumping action

Minimizes shear and crush damage to the pumped product, whilst maintaining a steady flow when pumping products with a high solids content.

### Up to 28ft suction lift

Deep sumps can be easily emptied without the use of submersible equipment.

### High pressure / long haul pumping

Can offer considerable project cost savings by utilizing small bore pipework and eliminating the need for a series of pumps, when pumping over long distances or with high head requirements.

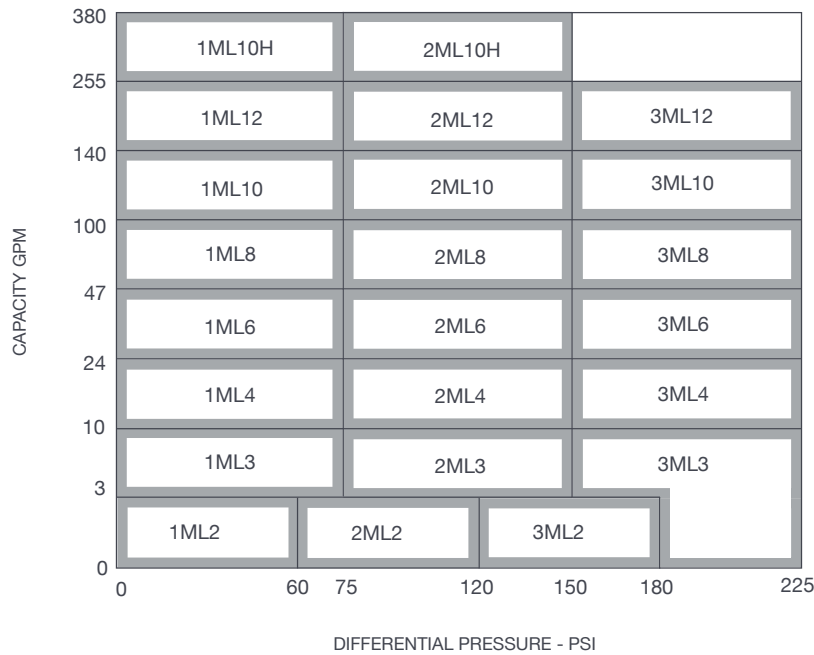
### Versatile

Can be run in either direction.



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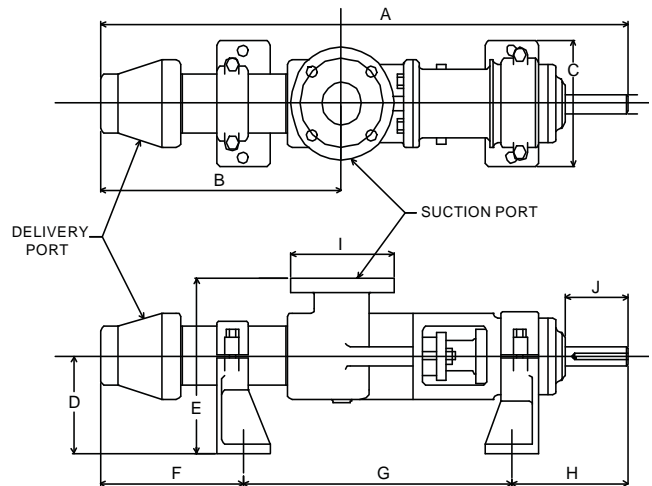
# Performance Data



For guidance in selecting a pump please contact Monoflo.

# Dimensions

MODEL	A	B	C	D	E	F	G	H	I	J	Suction	Discharge
1ML2	17	7 <sup>9</sup> / <sub>16</sub>	4	3 <sup>1</sup> / <sub>4</sub>	5 <sup>7</sup> / <sub>8</sub>	4 <sup>1</sup> / <sub>4</sub>	8 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>4</sub>	4 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	1	3 <sup>3</sup> / <sub>4</sub>
2ML2	20 <sup>1</sup> / <sub>2</sub>	10	4	3 <sup>1</sup> / <sub>4</sub>	5 <sup>7</sup> / <sub>8</sub>	5 <sup>3</sup> / <sub>4</sub>	10 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>4</sub>	4 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	1	3 <sup>3</sup> / <sub>4</sub>
3ML2	24 <sup>1</sup> / <sub>16</sub>	14 <sup>7</sup> / <sub>16</sub>	4	3 <sup>1</sup> / <sub>4</sub>	5 <sup>7</sup> / <sub>8</sub>	7 <sup>13</sup> / <sub>16</sub>	12	4 <sup>1</sup> / <sub>4</sub>	4 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	1	3 <sup>3</sup> / <sub>4</sub>
1ML3	22 <sup>1</sup> / <sub>4</sub>	10	5	4	7 <sup>9</sup> / <sub>16</sub>	5 <sup>9</sup> / <sub>16</sub>	11 <sup>1</sup> / <sub>2</sub>	5 <sup>11</sup> / <sub>16</sub>	5	2	1 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>4</sub>
2ML3	28 <sup>1</sup> / <sub>16</sub>	15 <sup>7</sup> / <sub>16</sub>	5	4	7 <sup>9</sup> / <sub>16</sub>	9	13	5 <sup>11</sup> / <sub>16</sub>	5	2	1 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>4</sub>
3ML3	33	20 <sup>3</sup> / <sub>4</sub>	5	4	7 <sup>9</sup> / <sub>16</sub>	11 <sup>3</sup> / <sub>16</sub>	16 <sup>1</sup> / <sub>2</sub>	5 <sup>11</sup> / <sub>16</sub>	5	2	1 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>4</sub>
1ML4	30	13	7	5 <sup>1</sup> / <sub>2</sub>	9	7 <sup>1</sup> / <sub>4</sub>	15 <sup>1</sup> / <sub>4</sub>	7	7	3	2 <sup>1</sup> / <sub>2</sub>	2
2ML4	37	20 <sup>1</sup> / <sub>4</sub>	7	5 <sup>1</sup> / <sub>2</sub>	9	8	22	7	7	3	2 <sup>1</sup> / <sub>2</sub>	2
3ML4	44 <sup>1</sup> / <sub>4</sub>	27	7	5 <sup>1</sup> / <sub>2</sub>	9	14 <sup>1</sup> / <sub>2</sub>	22 <sup>3</sup> / <sub>4</sub>	7	7	3	2 <sup>1</sup> / <sub>2</sub>	2
1ML6	39	17 <sup>7</sup> / <sub>16</sub>	8	6 <sup>1</sup> / <sub>4</sub>	11 <sup>1</sup> / <sub>4</sub>	10 <sup>1</sup> / <sub>16</sub>	20	8 <sup>9</sup> / <sub>16</sub>	7 <sup>1</sup> / <sub>2</sub>	4 <sup>3</sup> / <sub>8</sub>	3	2 <sup>1</sup> / <sub>2</sub>
2ML6	49 <sup>9</sup> / <sub>4</sub>	28 <sup>7</sup> / <sub>16</sub>	8	6 <sup>1</sup> / <sub>4</sub>	11 <sup>1</sup> / <sub>4</sub>	15 <sup>3</sup> / <sub>4</sub>	26	8 <sup>9</sup> / <sub>16</sub>	7 <sup>1</sup> / <sub>2</sub>	4 <sup>3</sup> / <sub>8</sub>	3	2 <sup>1</sup> / <sub>2</sub>
3ML6	60 <sup>9</sup> / <sub>16</sub>	39 <sup>9</sup> / <sub>16</sub>	8	6 <sup>1</sup> / <sub>4</sub>	11 <sup>1</sup> / <sub>4</sub>	13 <sup>9</sup> / <sub>16</sub>	20	8 <sup>9</sup> / <sub>16</sub>	7 <sup>1</sup> / <sub>2</sub>	4 <sup>3</sup> / <sub>8</sub>	3	2 <sup>1</sup> / <sub>2</sub>
1ML8	46	20 <sup>9</sup> / <sub>16</sub>	11 <sup>1</sup> / <sub>2</sub>	8	14	9 <sup>3</sup> / <sub>4</sub>	27	9 <sup>1</sup> / <sub>4</sub>	9	4 <sup>9</sup> / <sub>16</sub>	4	4
2ML8	58 <sup>9</sup> / <sub>8</sub>	32	11 <sup>1</sup> / <sub>2</sub>	8	14	17	32	9 <sup>1</sup> / <sub>4</sub>	9	4 <sup>9</sup> / <sub>16</sub>	4	4
3ML8	70 <sup>13</sup> / <sub>16</sub>	45	11 <sup>1</sup> / <sub>2</sub>	8	14	12 <sup>9</sup> / <sub>16</sub>	25	9 <sup>1</sup> / <sub>4</sub>	9	4 <sup>9</sup> / <sub>16</sub>	4	4
1ML10	53	21	11 <sup>1</sup> / <sub>2</sub>	9 <sup>3</sup> / <sub>4</sub>	16 <sup>11</sup> / <sub>16</sub>	9	30	13 <sup>1</sup> / <sub>2</sub>	11	5 <sup>3</sup> / <sub>8</sub>	6	5
2ML10	63 <sup>1</sup> / <sub>2</sub>	32 <sup>1</sup> / <sub>4</sub>	11 <sup>1</sup> / <sub>2</sub>	9 <sup>3</sup> / <sub>4</sub>	16 <sup>11</sup> / <sub>16</sub>	14 <sup>1</sup> / <sub>2</sub>	35 <sup>1</sup> / <sub>2</sub>	13 <sup>1</sup> / <sub>2</sub>	11	5 <sup>3</sup> / <sub>8</sub>	6	5
3ML10	73	42	11 <sup>1</sup> / <sub>2</sub>	9 <sup>3</sup> / <sub>4</sub>	16 <sup>11</sup> / <sub>16</sub>	12 <sup>3</sup> / <sub>8</sub>	30	13 <sup>1</sup> / <sub>2</sub>	11	5 <sup>3</sup> / <sub>8</sub>	6	5
1ML10H	58 <sup>1</sup> / <sub>2</sub>	27 <sup>1</sup> / <sub>4</sub>	11 <sup>1</sup> / <sub>2</sub>	9 <sup>3</sup> / <sub>4</sub>	16 <sup>11</sup> / <sub>16</sub>	15	30	13 <sup>1</sup> / <sub>2</sub>	11	5 <sup>3</sup> / <sub>8</sub>	6	5
2ML10H	73	42	11 <sup>1</sup> / <sub>2</sub>	9 <sup>3</sup> / <sub>4</sub>	16 <sup>11</sup> / <sub>16</sub>	12 <sup>3</sup> / <sub>8</sub>	30	13 <sup>1</sup> / <sub>2</sub>	11	5 <sup>3</sup> / <sub>8</sub>	6	5
1ML12	70	31	14 <sup>1</sup> / <sub>2</sub>	12 <sup>1</sup> / <sub>2</sub>	21	14 <sup>1</sup> / <sub>2</sub>	37 <sup>1</sup> / <sub>2</sub>	18	13 <sup>1</sup> / <sub>2</sub>	6	8	6
2ML12	85 <sup>1</sup> / <sub>2</sub>	46 <sup>1</sup> / <sub>2</sub>	14 <sup>1</sup> / <sub>2</sub>	12 <sup>1</sup> / <sub>2</sub>	21	12	35	18	13 <sup>1</sup> / <sub>2</sub>	6	8	6
3ML12	101	62	14 <sup>1</sup> / <sub>2</sub>	12 <sup>1</sup> / <sub>2</sub>	21	14	42	18	13 <sup>1</sup> / <sub>2</sub>	6	8	6
1ML12H	77 <sup>3</sup> / <sub>4</sub>	38 <sup>3</sup> / <sub>4</sub>	14 <sup>1</sup> / <sub>2</sub>	12 <sup>1</sup> / <sub>2</sub>	21	17 <sup>1</sup> / <sub>4</sub>	42	18	13 <sup>1</sup> / <sub>2</sub>	6	8	6
2ML12H	101	62	14 <sup>1</sup> / <sub>2</sub>	12 <sup>1</sup> / <sub>4</sub>	21	14	42	18	13 <sup>1</sup> / <sub>2</sub>	6	8	6



All dimensions in inches and for guidance only.  
Flanges to ANSI B16.1, B16.5 and NPT pipe thread.

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Literature reference: MFI-ML/R2  
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