

### End Suction Pumps

#### Standard Material of Construction

ITEM NO.	NAME OF PART	ALL IRON	BRONZE FITTED
001	Casing	Cast Iron	Cast Iron
002	Impeller	Cast Iron	Bronze
006	Shaft	4140 St. Stl.	4140 St. Stl.
008	Impeller Ring (Optional)	316 St. Stl.	316 St. Stl.
014	Sleeve	316 St. Stl.	316 St. Stl.
019	Frame	Cast Iron	Cast Iron
025	Casing Ring	316 St. Stl.	316 St. Stl.
026	Impeller Cap Screw	316 St. Stl.	316 St. Stl.
027	Cover Ring	316 St. Stl.	316 St. Stl.
030	Washer Impeller Gasket	Rulon	Rulon
032	Impeller Key	Steel	Steel
033	Bearing Housing	Cast Iron	Cast Iron
038	Sleeve Gasket	Rulon	Rulon
046	Coupling Key	Steel	Steel
071	Adapter	Cast Iron	Cast Iron
073	Casing Gasket	Velbuna	Velbuna
089	Mechanical Seal	BF1C1	BF1C1
270	Impeller Washer	316 St. Stl.	316 St. Stl.
273	Foot (Adapter)	Steel	Steel
274	Foot (Frame)	Cast Iron	Cast Iron

#### Cast Material Designation

Code	Material and Specification
Cast Iron	Cast Iron A48 - Class 30
Bronze	Bronze B876
St. Stl.	Stainless Steel A743 CF8M

#### Technical Chart - 1B Frame

SIZE		1½ x 1 x 6	2 x 1½ x 6	3 x 2 x 6	3 x 2½ x 7	1½ x 1 x 8	2 x 1½ x 8	3 x 2 x 8
Casing	Suction	1½	2	3	3	1½	2	3
	Discharge	1	1½	2	2½	1	1½	2
	Casing Wall Thickness	¼	¼	9/32	¾	5/16	5/16	5/16
	Max. Working Pressure P.S.I.	See Pressure Chart						
Impeller	Max. Impeller Diameter	6½	6½	6½	7¼	8	8	8
	Imp. Eye Area Inches <sup>2</sup>	3.14	4.42	7.07	7.36	4.47	4.91	8.29
	Max. Diameter Solids	9/32	¾	½	7/32	9/32	¾	7/16
Shaft	Diameter at Coupling End	7/8						
	Diameter Under Sleeve	1						
	Diameter at Sleeve O.D.	1¼						
	Diameter at Impeller	7/8						
Frame	Bearing Size IB / OB	3207/5306						
	Bearing CL to Bearing CL	4¼						
	Bearing CL to Bearing CL	4 <sup>9</sup> / <sub>32</sub>	4 <sup>15</sup> / <sub>16</sub>	4 <sup>3</sup> / <sub>8</sub>	4 <sup>3</sup> / <sub>4</sub>	4¼	4 <sup>3</sup> / <sub>8</sub>	4 <sup>3</sup> / <sub>8</sub>
	Weight of Pump lbs.	59	62	65	91	74	77	82



#### WARNING:

CANCER AND REPRODUCTIVE HARM -  
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# Pump Assembly Data

Model 3121  
Bulletin 3000

# DEMING®

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019	Frame	Cast Iron	Cast Iron
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026	Impeller Cap Screw	316 St. Stl.	316 St. Stl.
027	Cover Ring	316 St. Stl.	316 St. Stl.
030	Washer Impeller Gasket	Rulon	Rulon
032	Impeller Key	Steel	Steel
033	Bearing Housing	Cast Iron	Cast Iron
038	Sleeve Gasket	Rulon	Rulon
046	Coupling Key	Steel	Steel
071	Adapter	Cast Iron	Cast Iron
073	Casing Gasket	Velbuna	Velbuna
089	Mechanical Seal	BF1C1	BF1C1
270	Impeller Washer	316 St. Stl.	316 St. Stl.
273	Foot (Adapter)	Steel	Steel
274	Foot (Frame)	Cast Iron	Cast Iron

### Cast Material Designation

Code	Material and Specification
Cast Iron	Cast Iron A48 - Class 30
Bronze	Bronze B876
St. Stl.	Stainless Steel A743 CF8M

### Technical Chart - 2B Frame

SIZE		4 x 3 x 6	3 x 2½ x 7	3 x 2 x 8	4 x 3 x 8	6 x 4 x 8	2 x 1 x 10	2 x 1½ x 10	3 x 2 x 10	4 x 3 x 10
Casing	Suction	4	3	3	4	6	2	2	3	4
	Discharge	3	2½	2	3	4	1	1½	2	3
	Casing Wall Thickness	5/16	3/8	5/16	7/16	7/16	3/8	3/8	3/8	1/2
	Max. Working Pressure P.S.I.	See Pressure Chart								
Impeller	Max. Impeller Diameter	6½	7¼	8	8	8	10	10	10	10
	Imp. Eye Area Inches <sup>2</sup>	8.95	7.36	8.20	11.79	15.47	4.25	4.21	7.07	11.79
	Max. Diameter Solids	27/32	17/32	7/16	3/4	29/32	9/32	3/8	15/32	9/16
Shaft	Diameter at Coupling End	1⅞								
	Diameter Under Sleeve	1⅜								
	Diameter at Sleeve O.D.	1⅝								
	Diameter at Impeller	1¼								
Frame	Bearing Size IB / OB	6308/5308								
	Bearing CL to Bearing CL	6								
	Bearing CL to Bearing CL	5 <sup>1</sup> / <sub>16</sub>	4 <sup>15</sup> / <sub>16</sub>	4 <sup>13</sup> / <sub>16</sub>	5	5 <sup>1</sup> / <sub>16</sub>	4¾	4 <sup>13</sup> / <sub>16</sub>	4 <sup>15</sup> / <sub>16</sub>	4 <sup>15</sup> / <sub>16</sub>
Weight of Pump lbs.		139	142	144	157	155	131	135	164	171



#### WARNING:

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## PUMPS & SYSTEMS

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027	Cover Ring	316 St. Stl.	316 St. Stl.
030	Washer Impeller Gasket	Rulon	Rulon
032	Impeller Key	Steel	Steel
033	Bearing Housing	Cast Iron	Cast Iron
038	Sleeve Gasket	Rulon	Rulon
046	Coupling Key	Steel	Steel
071	Adapter	Cast Iron	Cast Iron
073	Casing Gasket	Velbuna	Velbuna
089	Mechanical Seal	BF1C1	BF1C1
270	Impeller Washer	316 St. Stl.	316 St. Stl.
273	Foot (Adapter)	Steel	Steel
274	Foot (Frame)	Cast Iron	Cast Iron

Cast Material Designation

Code	Material and Specification
Cast Iron	Cast Iron A48 - Class 30
Bronze	Bronze B876
St. Stl.	Stainless Steel A743 CF8M

Technical Chart - 3B Frame

SIZE		5 x 4 x 10	6 x 4 x 10	8 x 6 x 10	3 x 2 x 13	4 x 3 x 13	6 x 4 x 13
Casing	Suction	5	6	8	3	4	6
	Discharge	4	4	6	2	3	4
	Casing Wall Thickness	$\frac{7}{16}$	$\frac{7}{16}$	$\frac{5}{8}$	$\frac{9}{16}$	$\frac{1}{2}$	$\frac{9}{16}$
	Max. Working Pressure P.S.I.	See Pressure Chart					
Impeller	Max. Impeller Diameter	10	10	10	13	13	13
	Imp. Eye Area Inches <sup>2</sup>	20.13	24.30	37.12	7.07	12.57	20.61
	Max. Diameter Solids	$\frac{29}{32}$	$\frac{15}{16}$	$1\frac{1}{4}$	$\frac{3}{8}$	$\frac{5}{8}$	$\frac{9}{16}$
Shaft	Diameter at Coupling End	$1\frac{1}{8}$					
	Diameter Under Sleeve	$1\frac{3}{8}$					
	Diameter at Sleeve O.D.	$1\frac{5}{8}$					
	Diameter at Impeller	$1\frac{1}{4}$					
Frame	Bearing Size IB / OB	6309/5309					
	Bearing CL to Bearing CL	75					
	Bearing CL to Bearing CL	$5\frac{13}{16}$	$5\frac{15}{16}$	$6\frac{3}{16}$	$5\frac{3}{8}$	$5\frac{1}{2}$	$5\frac{19}{32}$
	Weight of Pump lbs.	212	238	326	215	231	284



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### Technical Chart - 4B Frame

SIZE		5 x 4 x 10	6 x 4 x 10	8 x 6 x 10	3 x 2 x 13	4 x 3 x 13
Casing	Suction	5	6	8	3	4
	Discharge	4	4	6	2	3
	Casing Wall Thickness	$\frac{7}{16}$	$\frac{7}{16}$	$\frac{5}{8}$	$\frac{9}{16}$	$\frac{1}{2}$
	Max. Working Pressure P.S.I.	See Pressure Chart				
Impeller	Max. Impeller Diameter	10	10	10	13	13
	Imp. Eye Area Inches <sup>2</sup>	20.13	24.30	37.12	7.07	12.57
	Max. Diameter Solids	$\frac{29}{32}$	$\frac{15}{16}$	$1\frac{1}{4}$	$\frac{3}{8}$	$\frac{5}{8}$
Shaft	Diameter at Coupling End	$1\frac{7}{8}$				
	Diameter Under Sleeve	$1\frac{7}{8}$				
	Diameter at Sleeve O.D.	$2\frac{1}{8}$				
	Diameter at Impeller	$1\frac{5}{8}$				
Frame	Bearing Size IB / OB	6311/5311				
	Bearing CL to Bearing CL	9				
	Bearing CL to Bearing CL	$6\frac{5}{32}$	$6\frac{1}{4}$	$6\frac{7}{32}$	$5\frac{23}{32}$	$5\frac{27}{32}$
	Weight of Pump lbs.	244	270	358	247	263



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#### Technical Chart - 4B Frame

	SIZE	6 x 4 x 13
Casing	Suction	6
	Discharge	4
	Casing Wall Thickness	<sup>9</sup> / <sub>16</sub>
	Max. Working Pressure P.S.I.	See Pressure Chart
Impeller	Max. Impeller Diameter	13
	Imp. Eye Area Inches <sup>2</sup>	24.85
	Max. Diameter Solids	<sup>9</sup> / <sub>16</sub>
Shaft	Diameter at Coupling End	1 <sup>7</sup> / <sub>8</sub>
	Diameter Under Sleeve	1 <sup>7</sup> / <sub>8</sub>
	Diameter at Sleeve O.D.	2 <sup>1</sup> / <sub>8</sub>
	Diameter at Impeller	1 <sup>5</sup> / <sub>8</sub>
Frame	Bearing Size IB / OB	6311/5311
	Bearing CL to Bearing CL	9
	Bearing CL to Bearing CL	6 <sup>15</sup> / <sub>16</sub>
	Weight of Pump lbs.	316



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