

**Split Case Pumps - Horizontally Mounted**

**Single Stage, Double Suction, Ball Bearing, Split Case Centrifugal Pumps  
Type L - Construction Details**

	2L4A	2L5	2L6	3L4	3L5	3L6	4L1A,B
1. Shaft Diameters							
At Coupling	.937	.937	.937	1.125	1.125	.937	1.125
At Radial Bearing	.984	.984	.984	1.181	1.181	.984	1.181
Under Shaft Sleeves	1.250	1.250	1.250	1.500	1.500	1.250	1.500
At Impeller	1.250	1.250	1.250	1.500	1.500	1.250	1.500
At Thrust Bearing	.984	.984	.984	1.181	1.181	.984	1.181
2. Ball Bearings							
Radial Bearing	305S	305S	305S	306S	306S	305S	306S
Thrust Bearing	305S	305S	305S	306S	306S	305S	306S
3. Packing Box							
No. of Rings per Box							
(No Seal Cage)	6	6	6	7	7	6	7
(With Seal Cage)	4	4	4	5	5	4	5
Size Packing Sq	.375	.375	.375	.375	.375	.375	.375
Depth of Box	2.625	2.625	2.625	3.062	3.062	2.625	3.062
Bore of Box	2.250	2.250	2.250	2.500	2.500	2.250	2.500
Dia. of Sleeve	1.500	1.500	1.500	1.750	1.750	1.500	1.750
Width of Seal Cage	.625	.625	.625	.625	.625	.625	.625
4. Mechanical Seal *							
Crane Type 1	1.25	1.25	1.25	1.50	1.50	1.25	1.50
5. Bearing Spacing	21.414	21.414	21.414	23.868	23.868	21.414	23.868
6. Shaft Overhang	4	4	4	4.25	4.25	4	4.25
7. Key Sizes							
At Coupling	¼ Sq	¼ Sq	¼ Sq	¼ Sq	¼ Sq	¼ Sq	¼ Sq
At Impeller	¼ Sq	¼ Sq	¼ Sq	5/16 Sq	5/16 Sq	¼ Sq	5/16 Sq
8. Wearing Rings I.D.	3.433	3.761	3.761	3.761	3.761	3.761	5.014
Aver. Dia. Clearance	.010	.012	.012	.012	.012	.012	.015
9. WR (LB-FT)							
Dry	.8	4.0	1.8	1.0	4.2	1.9	5.0
Wet	1.0	4.8	2.0	1.1	5.0	2.1	5.7
	<b>4L2</b>	<b>4L3</b>	<b>4L4</b>	<b>5L1</b>	<b>5L2</b>	<b>5L3</b>	<b>6L1</b>
1. Shaft Diameters							
At Coupling	.937	.937	1.375	1.375	1.125	.937	1.562
At Radial Bearing	.984	.984	1.378	1.378	1.181	.984	1.575
Under Shaft Sleeves	1.250	1.250	1.625	1.625	1.500	1.250	2.000
At Impeller	1.250	1.250	1.625	1.625	1.500	1.250	2.000
At Thrust Bearing	.984	.984	1.378	1.378	1.181	.984	1.575
2. Ball Bearings							
Radial Bearing	305S	305S	307S	307S	306S	305S	308S
Thrust Bearing	305S	305S	307S	307S	306S	305S	308S
3. Packing Box							
No. of Rings per Box							
(No Seal Cage)	6	6	7	7	7	6	7
(With Seal Cage)	4	4	5	5	5	4	5
Size Packing Sq	.375	.375	.375	.375	.375	.375	.500
Depth of Box	2.625	2.625	3.062	3.062	3.062	2.625	4.000
Bore of Box	2.250	2.250	2.812	2.812	2.500	2.250	3.375
Dia. of Sleeve	1.500	1.500	2.000	2.000	1.750	1.500	2.375
Width of Seal Cage	.625	.625	.625	.625	.625	.625	1.000
4. Mechanical Seal *							
Crane Type 1	1.25	1.25	1.625	1.625	1.50	1.50	2.00
5. Bearing Spacing	21.414	21.414	24.822	24.822	23.868	21.414	29.900
6. Shaft Overhang	4	4	4.625	4.625	4.25	4	5.25
7. Key Sizes							
At Coupling	¼ Sq	¼ Sq	5/16 Sq	5/16 Sq	¼ Sq	¼ Sq	¾ Sq
At Impeller	¼ Sq	¼ Sq	5/16 Sq	5/16 Sq	5/16 Sq	¼ Sq	¼ Sq
8. Wearing Rings I.D.	4.513	3.761	4.513	5.639	5.014	4.262	6.640
Aver. Dia. Clearance	.010	.012	.014	.015	.015	.013	.016
9. WR (LB-FT)							
Dry	2.4	1.0	1.6	7.0	4.1	1.5	9.0
Wet	2.6	1.1	1.8	7.6	4.8	1.8	10.1

### Split Case Pumps - Horizontally Mounted

#### Single Stage, Double Suction, Ball Bearing, Split Case Centrifugal Pumps Type L - Construction Details

	6L2	6L3	6L7	8L1	8L2A,B	8L3
1. Shaft Diameters						
At Coupling	1.375	1.125	1.875	2.125	1.562	1.375
At Radial Bearing	1.378	1.181	1.969	2.166	1.575	1.378
Under Shaft Sleeves	1.625	1.500	2.125	2.375	2.000	1.625
At Impeller	1.625	1.500	2.250	2.375	2.000	1.625
At Thrust Bearing	1.378	1.181	1.969	1.772	1.575	1.378
2. Ball Bearings						
Radial Bearing	307S	306S	3210	311S	308S	307S
Thrust Bearing	307S	306S	5210	409S	308S	307S
3. Packing Box						
No. of Rings per Box						
(No Seal Cage)	7	7	8	8	7	7
(With Seal Cage)	5	5	6	6	5	5
Size Packing Sq	.375	.375	.438	.500	.500	.375
Depth of Box	3.062	3.062	3.500	4.437	4.000	3.062
Bore of Box	2.812	2.500	3.375	4.000	3.375	2.812
Dia. of Sleeve	2.000	1.750	2.500	3.000	2.375	2.000
Width of Seal Cage	.625	.625	.750	1.000	1.000	.625
4. Mechanical Seal *						
Crane Type 1	1.625	1.50	2.250	2.375	2.00	1.625
5. Bearing Spacing	24.822	23.868	24.000	32.696	29.900	24.822
6. Shaft Overhang	4.625	4.25	-	6.805	5.25	4.625
7. Key Sizes						
At Coupling	<sup>5</sup> / <sub>16</sub> Sq	<sup>1</sup> / <sub>4</sub> Sq	<sup>1</sup> / <sub>2</sub> Sq	<sup>1</sup> / <sub>2</sub> Sq	<sup>3</sup> / <sub>8</sub> Sq	<sup>5</sup> / <sub>16</sub> Sq
At Impeller	<sup>5</sup> / <sub>16</sub> Sq	<sup>5</sup> / <sub>16</sub> Sq	<sup>3</sup> / <sub>8</sub> Sq	<sup>1</sup> / <sub>2</sub> Sq	<sup>1</sup> / <sub>2</sub> Sq	<sup>5</sup> / <sub>16</sub> Sq
8. Wearing Rings I.D.	5.639	5.014	7.125	8.267	7.266	7.016
Aver. Dia. Clearance	.015	.015	.018	.018	.017	.017
9. WR (LB-FT)						
Dry	3.7	1.7	28.0	12.0	8.0	3.6
Wet	4.3	2.1	33.4	15.0	8.8	4.6
	<b>8L7</b>	<b>8L8</b>	<b>10L3A,B</b>	<b>10L7</b>	<b>10L8</b>	<b>12L2A,B,C</b>
1. Shaft Diameters						
At Coupling	1.875	1.875	1.562	1.875	1.875	2.125
At Radial Bearing	1.969	1.969	1.575	1.969	1.969	2.166
Under Shaft Sleeves	2.125	2.125	2.000	2.125	2.125	2.375
At Impeller	2.250	2.250	2.000	2.250	2.250	2.375
At Thrust Bearing	1.969	1.969	1.575	1.969	1.969	1.772
2. Ball Bearings						
Radial Bearing	3210	3210	308S	3210	3210	311S
Thrust Bearing	5210	5210	308S	5210	5210	409S
3. Packing Box						
No. of Rings per Box						
(No Seal Cage)	8	8	7	8	8	8
(With Seal Cage)	6	6	5	6	6	6
Size Packing Sq	.438	.438	.500	.438	.438	.500
Depth of Box	3.500	3.500	4.000	3.500	3.500	4.437
Bore of Box	3.375	3.375	3.375	3.375	3.375	4.000
Dia. of Sleeve	2.500	2.500	2.375	2.500	2.500	3.000
Width of Seal Cage	.750	.750	1.000	.750	.750	1.000
4. Mechanical Seal *						
Crane Type 1	2.250	2.250	2.00	2.250	2.250	2.375
5. Bearing Spacing	24.000	24.000	29.900	24.000	24.000	32.696
6. Shaft Overhang	-	-	5.25	-	-	6.805
7. Key Sizes						
At Coupling	<sup>1</sup> / <sub>2</sub> Sq	<sup>1</sup> / <sub>2</sub> Sq	<sup>3</sup> / <sub>8</sub> Sq	<sup>1</sup> / <sub>2</sub> Sq	<sup>1</sup> / <sub>2</sub> Sq	<sup>1</sup> / <sub>2</sub> Sq
At Impeller	<sup>3</sup> / <sub>8</sub> Sq	<sup>3</sup> / <sub>8</sub> Sq	<sup>1</sup> / <sub>2</sub> Sq	<sup>3</sup> / <sub>8</sub> Sq	<sup>3</sup> / <sub>8</sub> Sq	<sup>1</sup> / <sub>2</sub> Sq
8. Wearing Rings I.D.	7.500	7.500	9.017	8.755	9.500	9.517
Aver. Dia. Clearance	.018	.018	.018	.018	.018	.018
9. WR (LB-FT)						
Dry	14.5	24.0	8.7	13.7	29.9	16.0
Wet	17.2	28.6	10.2	15.6	30.7	10.0