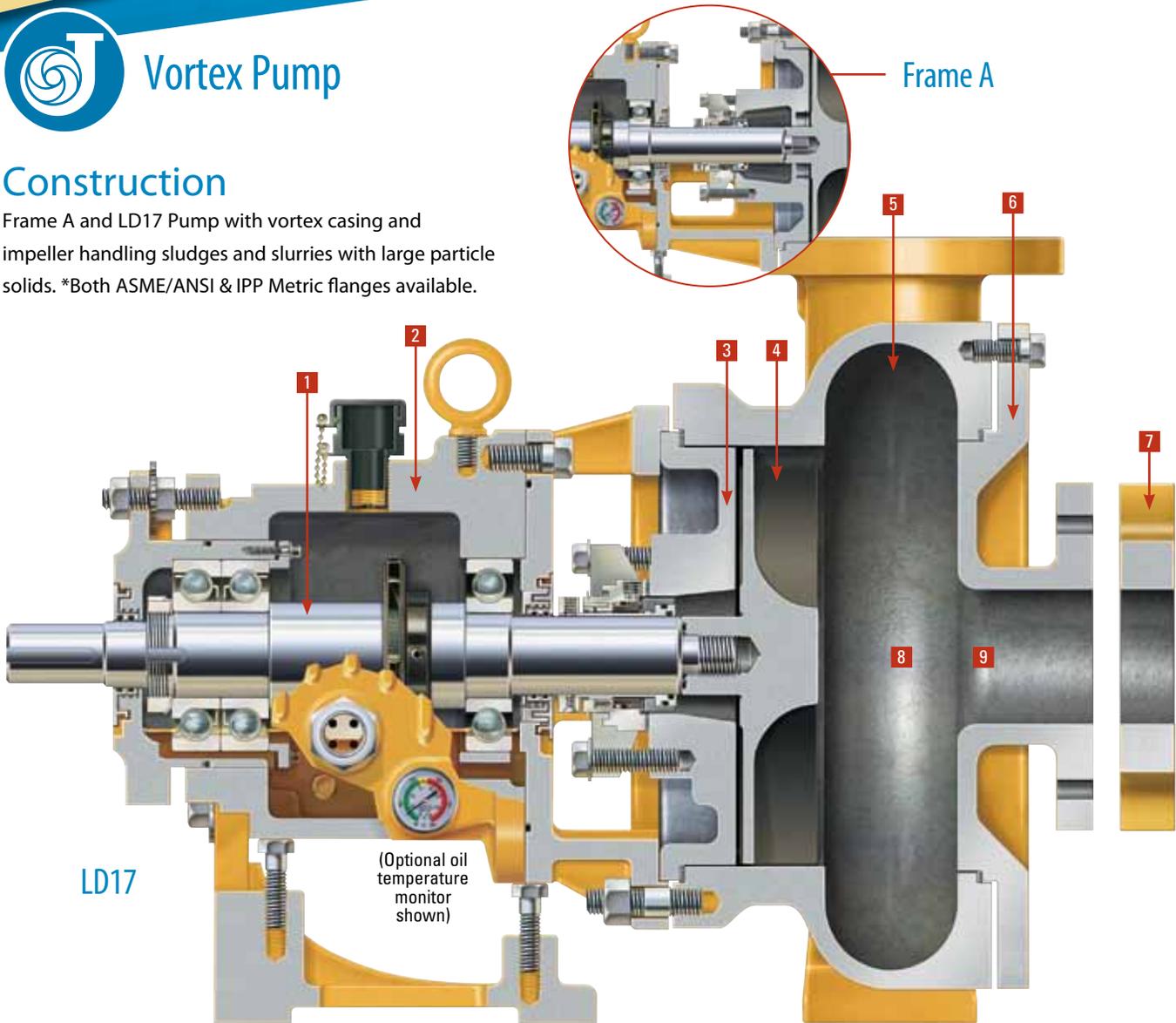




Vortex Pump

Construction

Frame A and LD17 Pump with vortex casing and impeller handling sludges and slurries with large particle solids. *Both ASME/ANSI & IPP Metric flanges available.



■ Provides a solution to difficult pumping problems such as sludges and slurries with large particle solids, materials with entrained air, stringy or fibrous materials

■ Designed to fit the standard System One and LD17 power ends and includes all the features and benefits of our System One pump

1 LD17 shaft¹

2 LD17 power end¹

3 Back cover/seal chamber

- Taper bore provided on LD17
- Straight bore with cast restriction bushing or open taper configurations available for Frame A

4 Vortex impeller recessed out of passageway.

5 Vortex casing

6 Removable suction cover

7 Optional spacer flange allows removal of separate suction cover for cleanout without disturbing piping

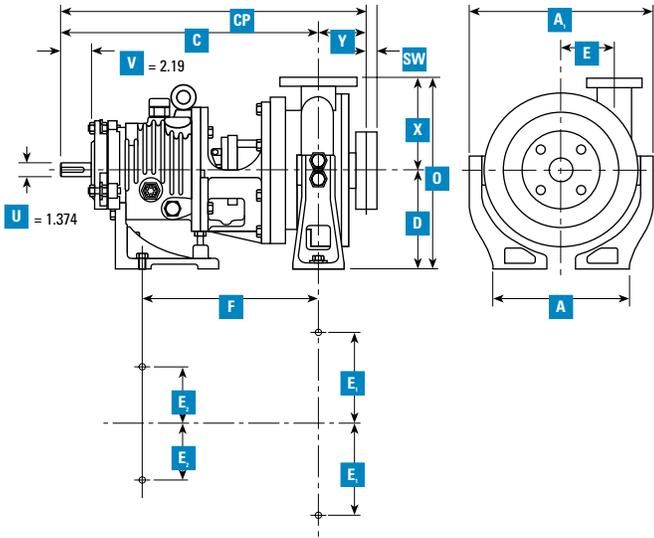
8 Solids are drawn into the vortex of swirling liquid and are discharged by centrifugal force through the open area of the casing with minimum impeller contact for minor particle degradation

9 Suction and discharge passageways are one continuous open area

- 2" pump can pass a 2" (50 mm) solid
- 3" pump can pass a 3" (75 mm) solid
- 4" pump can pass a 4" (100 mm) solid

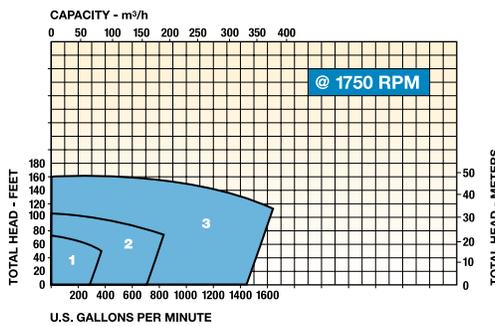
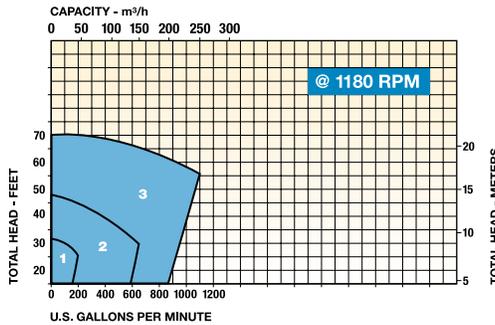
¹ Also available in Frame A (see circle inset above and System One Frame A Pump section for details of Power End).

Vortex Pump FRAME A & LD17

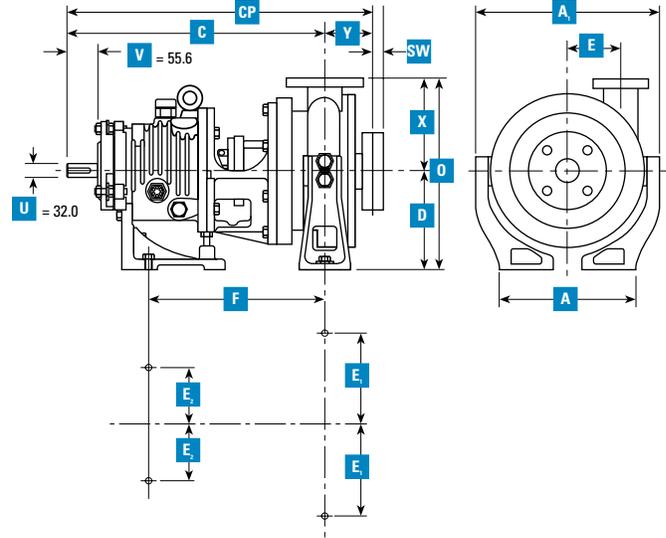


Pump Size	CP FrA	CP LD17	C FrA	C LD17	Y	X	E	D	O	F FrA	F LD17	A	A ₁	2E ₁	2E ₂	SW	
1	2 x 2-8	25.62	22.93	21.62	18.93	4.00	7.75	4.37	8.25	16.0	14.62	11.93	11.25	15.25	7.50	7.25	1.00
2	3 x 3-10	27.18	24.49	22.56	19.87	4.62	9.50	5.50	10.00	19.5	15.58	12.89	13.75	19.25	7.12	7.25	1.12
3	4 x 4-12	29.38	26.69	23.88	21.19	5.50	11.50	6.50	10.00	21.5	16.83	14.14	16.50	22.00	9.88	7.25	1.38

SW dim. indicates width of optional spacer flange.
All dimensions are in inches.

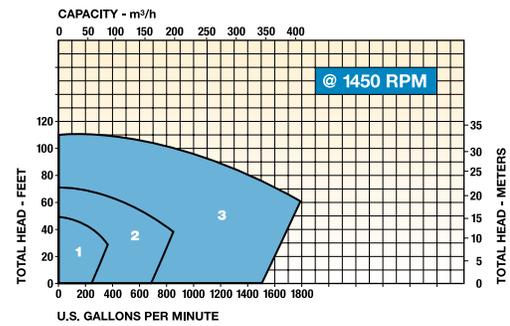
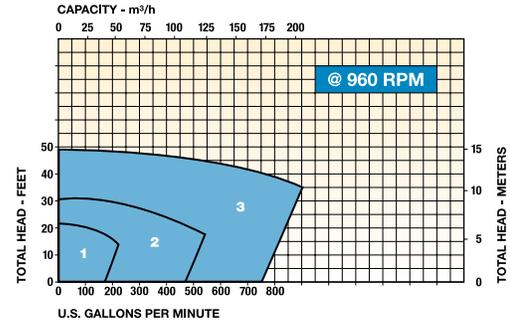


Vortex Pump METRIC FLANGE



Pump Size	CP FrA	CP LD17	C FrA	C LD17	Y	X	E	D	O	F FrA	F LD17	A	A ₁	2E ₁	2E ₂	SW	
1	50 x 50-200	651	582	550	481	100	195	111	200	406	382	303	285	387	191	185	25
2	80 x 80-250	690	622	573	505	117	241	140	250	495	396	327	350	489	181	185	28
3	100 x 100-300	746	678	606	538	140	292	165	250	546	427	359	420	559	250	185	35

SW dim. indicates width of optional spacer flange.
All dimensions are in millimeters.



Designed for difficult pumping problems such as:

- Sludges and slurries with large solids
- Pumped materials with entrained air
- Pumped fluids with stringy or fibrous materials
- Minimum product shearing

Especially suited for the following industries:

- Waste treatment
- Food and chemical processing
- Agriculture



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