

4060 Single Stage End Suction Centrifugal Pumps

Deming 4060 Series Single Stage End Suction Centrifugal Pumps combine advanced design features and outstanding performance to meet the widest possible range of service conditions encountered by industries and municipalities, whether pumping clear water, abrasive liquids, acids, caustics, oils or hydrocarbon.

These pumps are "custom-built" from readily available components to meet most specialized industrial requirements. Back pull-out construction permits pump servicing of the rotating assembly without disturbing piping connections, thus reducing maintenance cost and facilitates conversion for future changes in system or process requirements. Running clearance between impeller vanes and casing is easily adjusted to compensate for changes in flow requirements and eventual wear. Six sizes of liquid ends are interchangeable on a basic power frame to cover the widest possible range of service conditions with minimum number of parts. Machined register fit at all assembly points assures perfect alignment and vibration-free operation for long operating life. Compare the many quality features of Deming, a sound investment in dependable, trouble-free operation at no extra cost.

**Capacities to 4000 GPM
Heads to 150 Feet
4" thru 10" Discharge**

TYPICAL APPLICATIONS:

- Air Conditioning
- Building Service
- Washer Lines
- Chemical Service
- Irrigation
- Booster Service
- Pollution Control
- Industrial Service
- Cooling Tower



Materials of Construction		
Name of Part	All Iron	Bronze Fitted
Casing	Cast Iron	Cast Iron
Impeller	Cast Iron	Bronze
Pump Shaft	SAE 1045 Steel	Steel
Packing Box Cover	Cast Iron	Cast Iron
Shaft Sleeve	18-8 SS	Bronze
Ball Bearing	Steel	Steel
Frame	Cast Iron	Cast Iron
Jack Screw	Steel	Steel

Mechanical Specifications						
Fig. No. - Size	Series 4066 Sizes					
Suction	4	6	6	8	8	10
Discharge	4	4	6	6	8	10
Max. Impeller Dia.	12	12	12	12	12	12
Max. Size Solids	1 ³ / ₁₆	1 ¹ / ₂	1 ¹ / ₂	1 ⁹ / ₁₆	1 ¹ / ₂	1 ⁵ / ₈

All Dimensions in Inches

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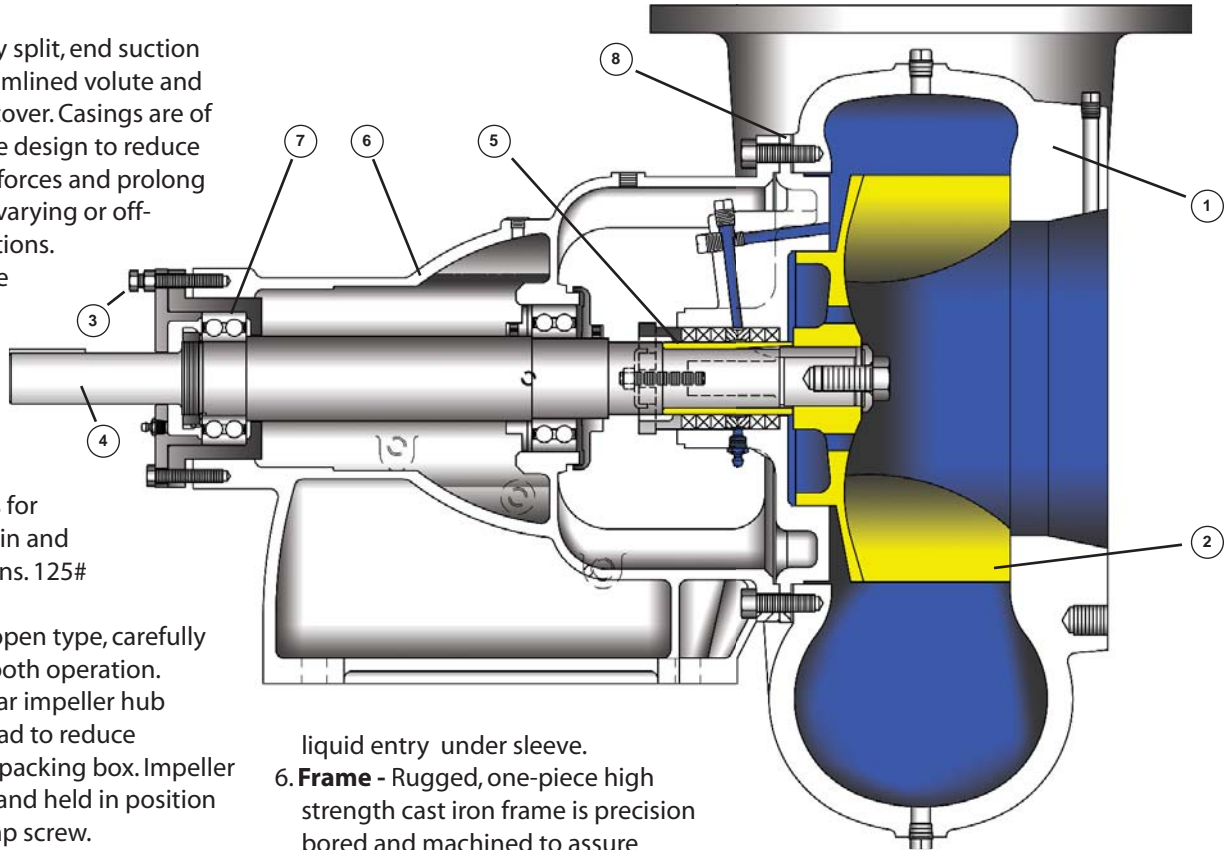
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Design Features:

- 1. Casing** - Vertically split, end suction design with streamlined volute and integral suction cover. Casings are of the double volute design to reduce radial deflection forces and prolong pump life under varying or off-peak head conditions. Discharge may be rotated every 45° from standard top vertical position. Casing includes tapped openings for priming vent, drain and gauge connections. 125# ANSI flanges.
- 2. Impeller** - Semi-open type, carefully balanced for smooth operation. Balance holes near impeller hub reduces thrust load to reduce pressure against packing box. Impeller is keyed to shaft and held in position by washer and cap screw.
- 3. Impeller Adjustment** - Jack screws provide easy external adjustment of impeller clearance.
- 4. Shaft** - Turned and precision ground high strength steel with optimum diameter and bearing span to minimize deflection. Alloy shafts are available for specific applications.
- 5. Shaft Sleeve** - Sleeve protects the shaft against corrosion and wear; extends into gland for maximum shaft protection. Sleeve is keyed to the shaft and locked in position by the impeller hub. Gasketed seal between sleeve and impeller hub prevents



- liquid entry under sleeve.
- 6. Frame** - Rugged, one-piece high strength cast iron frame is precision bored and machined to assure alignment of the rotating assembly and provide rigid support for the pump.
 - 7. Bearings** - Precision ball bearings are extra large and are thoroughly protected against dirt and are grease lubricated Cartridge mounted double row angular contact outboard bearing carries radial load plus any unbalanced thrust.
 - 8. Packing Box Cover** - Heavy one-piece casting with rabbeted flange for positive alignment. Extra deep to accept five packing rings and lantern ring. Packing is easily accessible with

removable split gland. Internally drilled liquid passage in packing box cover provides lubrication to packing area. External lubrication, such as clear water or oil under pressure, may be connected to the stuffing box cover. Grease lubrication to the packing is optional. Wide choice of mechanical shaft seals, in place of conventional packing, is available to meet specific requirements. Seals are interchangeable without special machining.

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