

Goulds Pumps, Inc.

PUMP MAKERS SINCE 1848

BRANCHES
Atlanta Boston
New York Philadelphia

MAIN OFFICE AND WORKS
SENECA FALLS
New York

BRANCHES
Chicago Pittsburgh
Tulsa Houston

GOULDS PUMPS have been made for every service for more than three-quarters of a century and have an established reputation for reliable service, economy in operation, and conservative rating. Bulletins on power pumps give complete specifications of the standard types as follows:

- No. 100. Double-Acting, Single Cylinder Piston Pumps.
- No. 101. Single-Acting Triplex Plunger Pumps, Outside-Guided Type.
- No. 103. Single-Acting Triplex Plunger Pumps, Large Capacity and High Pressure Types.
- No. 104. Double-Acting Triplex Piston Pumps, Vertical Type.
- No. 105. Single Stage, Single Side Suction Centrifugal Pumps.
- No. 106. Vacuum and Stuff Pumps.
- No. 107. Deep Well Triplex Pumps.
- No. 108. Deep Well Working Heads and Cylinders.
- No. 110. Single Stage, Double Suction Centrifugal Pumps.
- No. 111. Centrifugal Sump Pumps.
- No. 112. Handy Data on Power Pumping.
- No. 113. Power Rotary Pumps.
- No. 115. Double-Acting Duplex and Triplex Plunger Pumps, Horizontal Type.
- No. 116. Single-Acting Triplex Pressure Pumps.
- No. 118. Centrifugal Fire Pumps.
- No. 119. Single Stage, Single Suction Centrifugal Pumps, Enclosed Impeller Type.
- No. 120. Multi-Stage Centrifugal Pumps for General Service.
- No. 122. Centrifugal Pump Data.
- No. 124. Installation—Operation—Inspection, Goulds Centrifugal Pumps.
- No. 125. Single Stage, Double Suction Centrifugal Pumps.

Several units of interest to heating engineers and architects are shown here accompanied by data on capacity, speed, efficiency which will assist them in choosing the right Goulds pump for the service desired.

GOULDS DOUBLE SUCTION CENTRIFUGAL PUMPS are the results of over 12 years of research and progressive development and are of exceptionally high efficiencies.

CASING.—Close grained iron, divided horizontally, the two castings bolted together. The lower half of the bearing housings are cast integral with the lower half of casing. Casing is provided with air cocks, and with openings for priming and draining.

IMPELLER.—Cast iron, accurately machined and balanced.

BEARINGS.—Ring oiling type with split cast iron shells lined with babbit, supported in horizontally divided housings securely locked against rotation or lateral motion. Shells are removable without disturbing rotating element.

THRUST BEARINGS.—All pumps are provided with a self-aligning double-acting ball thrust bearing, running in an oil bath, which takes care of any unbalanced thrust due to uneven wear of sealing surfaces.

SHAFT.—Special alloy steel, heat treated, accurately machined to gauge.

STUFFING BOX.—Of extra long design with brass water seal ring and water seal piping.

GLANDS.—The glands are split horizontally, permitting the gland to be removed and affording maximum space for repacking. They are adjusted by swing bolts.

CASING WEARING RINGS.—Casing is equipped with bronze wearing rings, which can be renewed as required, thus keeping the clearances to a minimum.

IMPELLER WEARING RINGS.—Wearing rings on bronze impellers can be furnished as an extra.

GOULDS CENTRIFUGAL PUMPS

CENTRIFUGAL PUMP DATA SHEET

Data Requested for Estimates

The conditions under which operating units operate vary considerably. In order to enable us to furnish best figures and correct recommendations for every case, the engineer should give the following information. In making inquiries, please answer all the questions as fully as possible, for by so doing your unit will be in making proper recommendations. Fill in this sheet and mail with inquiry.

1. Number of Pumps required.
2. Capacity of each, in Gals. or Cu. Ft. per Min.
3. Character of liquid, acid, alkali, oil, etc., and whether it is corrosive.
4. If solid matter is contained, state size and character of largest piece.
5. Temperature of liquid.
6. Discharge or head.
7. Service conditions.

Head

1. Discharge head.
2. Suction head.
3. Friction head.
4. Total head.
5. Friction of discharge pipe.
6. Friction of suction pipe.
7. Friction of valves in discharge pipe.
8. Friction of valves in suction pipe.
9. Friction of elbows in discharge pipe.
10. Friction of elbows in suction pipe.
11. Friction of bends in discharge pipe.
12. Friction of bends in suction pipe.
13. Friction of tees in discharge pipe.
14. Friction of tees in suction pipe.
15. Friction of couplings in discharge pipe.
16. Friction of couplings in suction pipe.
17. Friction of unions in discharge pipe.
18. Friction of unions in suction pipe.
19. Friction of flanges in discharge pipe.
20. Friction of flanges in suction pipe.
21. Friction of gaskets in discharge pipe.
22. Friction of gaskets in suction pipe.
23. Friction of bolts in discharge pipe.
24. Friction of bolts in suction pipe.
25. Friction of nuts in discharge pipe.
26. Friction of nuts in suction pipe.
27. Friction of washers in discharge pipe.
28. Friction of washers in suction pipe.
29. Friction of spacers in discharge pipe.
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31. Friction of lock washers in discharge pipe.
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556. Friction of cotter pins in suction pipe.
557. Friction of pins in discharge pipe.
558. Friction of pins in suction pipe.
559. Friction of rivets in discharge pipe.
560. Friction of rivets in suction pipe.
561. Friction of screws in discharge pipe.
562. Friction of screws in suction pipe.
563. Friction of bolts in discharge pipe.
564. Friction of bolts in suction pipe.
565. Friction of nuts in discharge pipe.
566. Friction of nuts in suction pipe.
567. Friction of washers in discharge pipe.
568. Friction of washers in suction pipe.
569. Friction of spacers in discharge pipe.
570. Friction of spacers in suction pipe.
571. Friction of lock washers in discharge pipe.
572. Friction of lock washers in suction pipe.
573. Friction of cotter pins in discharge pipe.
574. Friction of cotter pins in suction pipe.
575. Friction of pins in discharge pipe.
576. Friction of pins in suction pipe.
577. Friction of rivets in discharge pipe.
578. Friction of rivets in suction pipe.
579. Friction of screws in discharge pipe.
580. Friction of screws in suction pipe.
581. Friction of bolts in discharge pipe.
582. Friction of bolts in suction pipe.
583. Friction of nuts in discharge pipe.
584. Friction of nuts in suction pipe.
585. Friction of washers in discharge pipe.