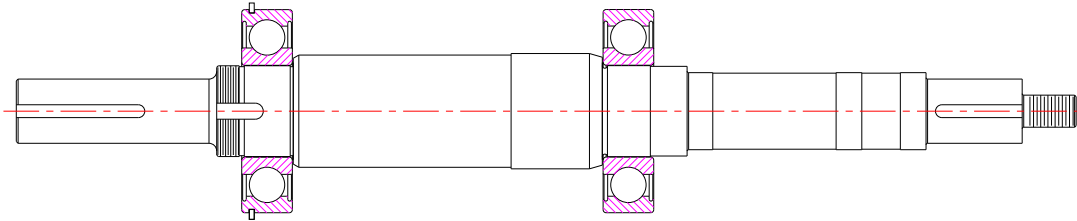


# Thelco Drawings of Worthington® D-1000 Pump Shaft Historical Variations.

Legacy design changes for Worthington® D-1000 series pump shafts and bearings. For types including D811, D812, D1011, D1012. The thrust bearing fit dimensions on the three shafts are different.

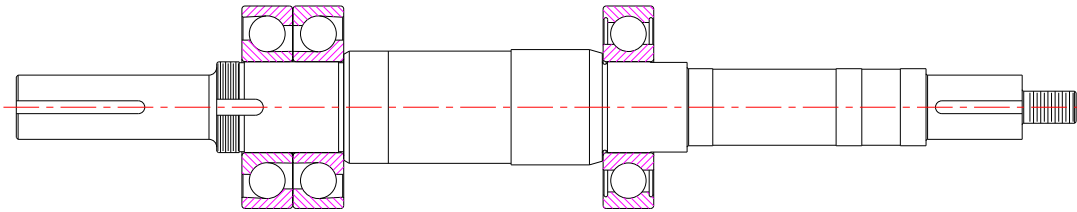
Thelco Corporation  
Englewood, CO. USA  
[www.thelco.com](http://www.thelco.com)

1st Generation single thrust bearing.  
This shaft is obsolete and no longer available.



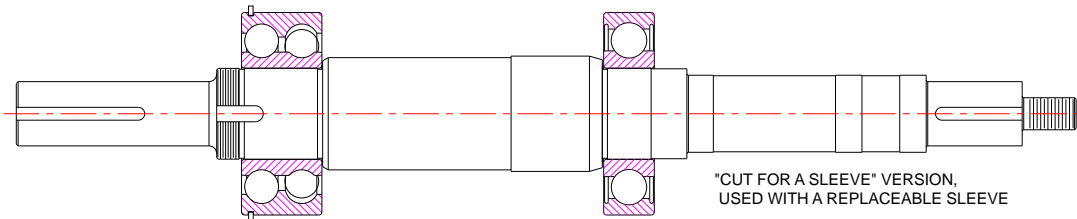
"Solid Shaft" and stainless version was available.

1st Generation double thrust bearing.  
This shaft is available by special order.  
This version requires a thrust bearing housing.



"Solid Shaft" and stainless versions available.

2nd Generation double row thrust bearing cut for a sleeve.  
Shafts with stainless steel liquid end available in  
316-SS or Alloy-20. Current design and available.

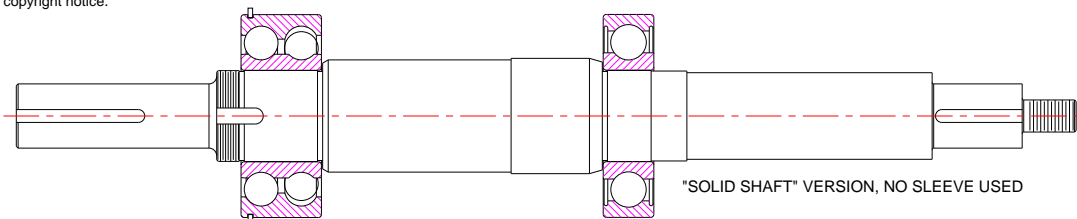


"CUT FOR A SLEEVE" VERSION,  
USED WITH A REPLACEABLE SLEEVE



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2nd Generation double row thrust bearing. "Solid Shaft",  
no sleeve. Shafts with stainless steel liquid end available in  
316-SS or Alloy-20. Current design and available.



"SOLID SHAFT" VERSION, NO SLEEVE USED

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