

API Standard 676 - Positive Displacement Pumps - Rotary

Last Update: October 20, 2010

Standard	Edition	Section	Inquiry #	Question	Reply
676	2nd - Dec. 1994	2.4	676-I-01/04	<p>I am performing a stress analysis for some positive displacement pumps. According to API 676, loads on nozzles are exceeded in just one direction. I would like to know if I can compare also with a resultant as:</p> $Fr = (Fx^2 + Fy^2 + Fz^2)^{1/2}$ <p>or if each value of force and moment has to be under the value indicated by the standard.</p>	Assuming you are referring to Section 2.4, the answer is no. Please ensure that you are using the values for the forces and moments as identified in the errata as attached.
676	2nd - Dec. 1994	3.3.1.2.1	676-I-01/06	<p>We are having difficulty complying with the API 676 mounting pad machining criteria in 3.3.1.2.1 that states the pads must be with 0.002 in. tolerance. We notice that API 610 states the tolerance is 0.002 in./ft of distance between the pads. Is it possible that the "per foot" was omitted?</p>	Yes. The tolerance should read "0.002 in./ft".
676	2nd - Dec. 1994	Appendix B Table B-1	676-I-01/03	<p>Question 1: There is a note at the bottom of the table that it is not to be used as a guide. How is it supposed to be used?</p> <p>Question 2: ASTM A 296 is listed for stainless castings. This standard does not appear to exist; what standard should be used?</p> <p>Question 3: What specification should be used for steel plate?</p>	<p>Reply 1: The note should read; "This table is to be used as a guide."</p> <p>Reply 2: ASTM A 743 and A 744 superceded ASTM A296.</p> <p>Reply 3: The ASTM designation for steel plate is not addressed and it depends upon its intended use.</p>
676	3rd	6.10.1	676-2010-1	<p>This section specifies minimum L-10 life for antifriction bearings and only references AFBMA 9. AFBMA 9 only covers ball bearings. Should this section read "see AFBMA 9 or AFMBA 11" to also cover roller bearings? Or are there no minimum L-10 life requirements for roller bearings?</p>	Roller bearings shall have the same L-10 life as rolling element bearings, but shall be calculated per ABMA 11. An errata will be issued to the standard.