

ISO 13709 2nd edition (API 610 11th)

5. 6.1.17 (P.21) When required cooling, fan cooling is the first choice.

Revised content ;

When handled liquid is a high temperature, or when pump operates at high-speed even with normal temperature liquid, the pump should cool bearings, flushing liquid, stuffing box etc.

To recommend the first to select it, it revised that when required cooling, a fan cooling is the first choice, without cooling water.

Fan cooling installs a fan on the pump shaft end, the fan rotates together with the pump, and cools the bearing housing by its wind.

It has come to often install the fin to enlarge the amount of the heat transmission on the surface outside the bearing housing. It doesn't limit to fan cooling. Though it is a reference, pump figures adhere fins in figures 23 to 25.

Fan cooling can certainly cool the bearing housing, though flushing liquid and the stuffing box cannot be cooled. Therefore it is likely to be able to make it to non-cooling with a bellows mechanical seal. Moreover, the secondary seal liquid of a tandem mechanical seal cannot be cooled with fan cooling. In this case, fin might be put up on the reservoir tank and/or its circumference.

However, because the cooling effect is different from depending on surrounding circumstances (temperature and velocity of the wind, etc.), water cooling is used for safety.

