

ISO 13709 2nd edition (API 610 11th)

4. 6.1.10 (P.20) Performance correction on pumps handling liquids more viscous than water

Revised content ;

Pump performance handling liquids more viscous than water shall be corrected in accordance with ISO/TR17766. ANSI/HI 9.6.7 is equivalent to ISO/TR17766. The performance is corrected by using numerical formula. Concretely, capacity, total head, efficiency and NPSHR are calculated while N_s is assumed to be a variable.

Figure was used to correct it so far, and the performance calculated depending on persons was slightly different. Now by this revision, no matter whoever calculates, these values become the same. However, these values are not adjusted to the actual operating performances. This respect is similar to a past case.

Plotting existing pump performances handling viscous liquid, of course they have dispersion, the numerical formula were decided so that the numerical results came into the almost center of plots.

The correction of NPSHR was added to this revision. Then NPSHR with viscous liquids always increases.

