

API 675

Only piston pumps and hydraulic diaphragm pumps are by this standard. The mechanically driven diaphragm pumps are not considered by this standard.

LINEARITY

The flow delivered by a dosing pump is proportional to the stroke length setting
API 675 stipulates that the deviation must remain within +/- 3%.

REPEATABILITY

Capacity of a dosing pump to deliver the same flow , at different measures for same stroke setting.
API 675 stipulates that the deviation must remain within +/- 3%.

STEADY STATE ACCURACY

Capacity of a dosing pump to deliver the same flow , at different measures without changing any parameter (pressure, temperature, NPSH, ...).
API 675 stipulates that the deviation must remain within +/- 1%.

TESTS AT ITC LABORATORY:

Linearity

Piston dosing pump: +/- 3%

Diaphragm dosing pump: +/- 5%

(Results within the recommended regulation range 20-100%. In the 10-20% range the deviations is +/- 10% for both)

Repeatability

Piston dosing pump: +/- 1%

Diaphragm dosing pump: +/- 1%

Steady state accuracy

Piston dosing pump: +/- < 1%

Diaphragm dosing pump: +/- <1%