

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 $\pm 3\%$.

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 $\pm 3\%$.

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 $\pm 1\%$.

TESTS AT ITC LABORATORY:

Linearity

Piston dosing pump: $\pm 3\%$

Diaphragm dosing pump: $\pm 5\%$

(Results within the recommended regulation range 20-100%. In the 10-20% range the deviations is $\pm 10\%$ for both)

Repeatability

Piston dosing pump: $\pm 2\%$

Diaphragm dosing pump: $\pm 2\%$

Steady state accuracy

Piston dosing pump: $\pm 1\%$

Diaphragm dosing pump: $\pm 1\%$