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Sidewinder Pumps, Inc. / API Standard 675 3rd Edition, June 2014

Models 42/62/82 "E" Series

Sidewinder Pumps, Inc. takes exception to following specifications for pneumatic driven pumps:

6.1.17 3rd Edition June 2014
6.1.18 3rd Edition June 2014
6.1.19 3rd Edition June 2014

Due to the intrinsic design differences between pneumatic and electric driven pumps and that the API Standard is driven by electric design, it is Sidewinder Pumps, Inc. opinion these do not apply to pneumatic driven pumps. Flow rate can be attained by pneumatic driven pump by two means – control of strokes per minute and length of stroke of plunger. There are any given numbers combinations of both that will give the same flow output. By design a pneumatic driven can accurately obtain a turn down ratio greater than 10:1. By design an electric driven pump obtains flow control by length of stroke on plunger only. At a point due to mechanical design, accuracy is no longer obtainable by an electric driven pump, therefore the guideline of API is that under 10:1 ratio a pump is not required to be repeatable. Once a given flow rate is obtained and given there are no fluctuations in supply pressure, Sidewinder Pumps will maintain given flow rate within + or – 1%. If air supply is disrupted and reestablished, pump will return to rate as set previously.

6.2.2 3rd Edition June 2014

Sidewinder pumps utilize a set screw on flange arrangement for securing power head. With over 50,000 pumps in the field over 25 years there have been no documented cases of failure.

6.3.1 3rd Edition June 2014

Sidewinder Pumps utilizes NPT connections.

8.3.42 3rd Edition June 2014

Due to design and operation of pneumatic driven pump with having multiple options to obtain a given flow rate, this test is not practical for a pneumatic driven pump.