



www.esscopumps.com
sales@esscopumps.com

ESSCO Pumps & Controls

4935 Telegraph Rd.
Los Angeles, Ca 90022

(323) 261-2181
Fax (323) 261-1523

Thursday, February 7, 2019

Hydrostatic Pressure Test (excerpt; ANSI/HI 14.6 Rotodynamic Pumps for Hydraulic Performance Acceptance Tests)

The Hydrostatic Test pressure and test duration have been updated. The test pressure relates to the rated pressure at the ambient temperature of the item to be tested and is determined by the following equation:

$$p_{test} = K1 \times K2 \times p_{rated}$$

Where:

p_{test} = the hydrostatic test pressure, 50 PSI min

p_{rated} = the rated pressure at operating temperature 100 PSI

K1 = a factor whose value shall be determined by the pump specification, but shall not be less than 1.3, except for thermoset parts = 1.0

K2 = a factor whose value shall be determined by the material strength, as follows
allowable stress at ambient temperature= 1.0

= allowable stress at operating temperature= 1.0

Hydrostat Test	
Time: 30 Min	Pressure 50 PSI min
Test Date	
Customer	
Purchase Order	
Pump SNs	