

Testing Water Jacket by Cylinder Type



Pressure Indicating Device

Accurate within $\pm 1\%$ of prescribed test pressure (3000psi Test pressure needs to be accurate within 30psi) of any cylinder tested that day.

Accuracy of pressure indicating device can be demonstrated at any point within 500psi of actual test pressure above 3,000psi, Or 10% of the actual test pressure for pressures below 3,000psi



Expansion Measuring Device

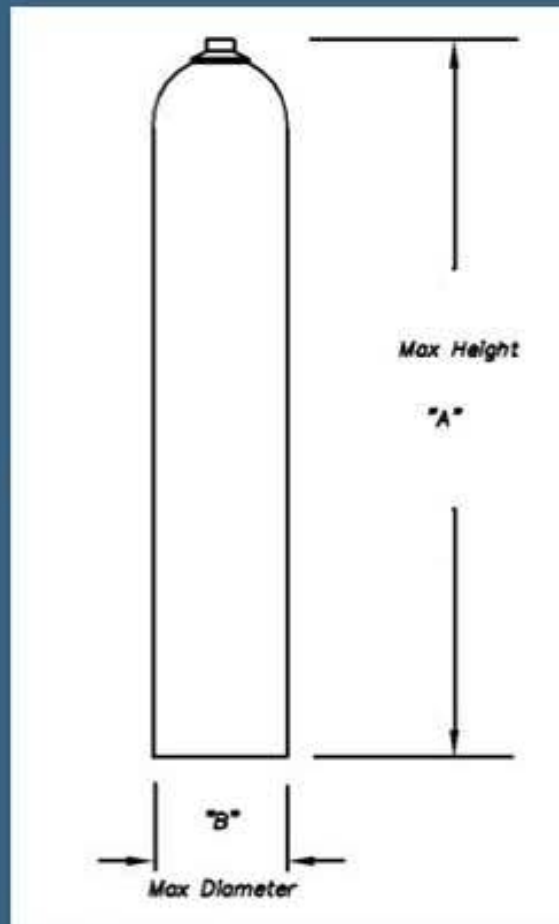
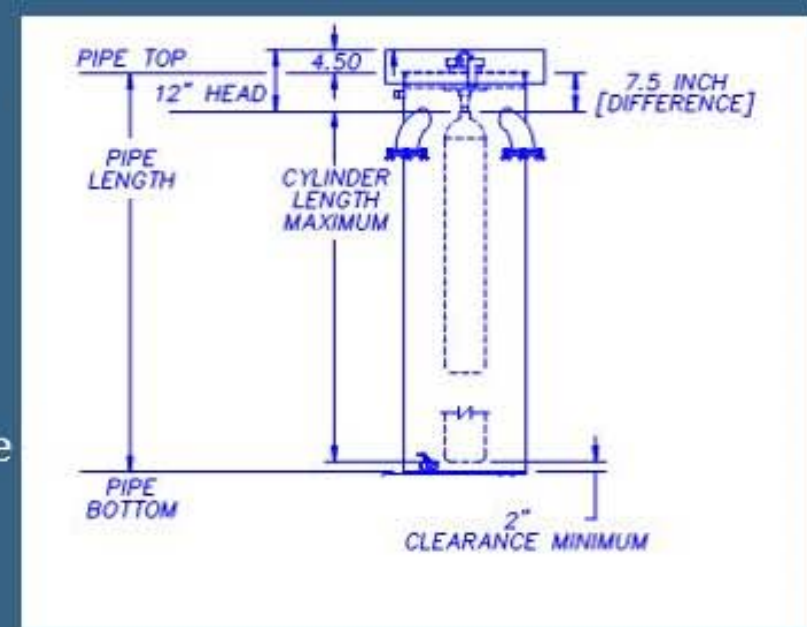
Needs to allow for readability within 1% of total expansion of cylinder or .1cc Whichever is greater

Scale capacity should account for total cylinder Expansion volume plus $\frac{1}{4}$ of the weigh bowl volume

Cylinder Length should be no more than the pipe length of the jacket minus 10"

Standard Tall Jacket Pipe Length 72"
Standard Short Jacket Pipe Length 42"

(pipe length is measurable distance inside test jacket from bottom to rim the test head sets on)



Test pressure of cylinder:

DOT 3 = 3000psi

DOT 3A, 3AA, 3AL, 3AX, 3AAX, 3HT, 3T = 5/3 Service Pressure

DOT 4AA480, 4B, 4BA, 4BW, 4B-240ET, 4D, 4DA, 4DS, 4E = 2x Service pressure

Note: Waterjacket not always required and exceptions apply see CFR49 180.209 Table 1

Cylinder diameter should allow for $\frac{1}{2}$ " - 1" clearance with inside of jacket. Please reference following I.D.'s on

- 12" = 12" ID
- 14" = 13.25" ID
- 18" = 17.25" ID
- 24" = 23.25" ID
- 30" = 29.25" ID
- 36" = 35.25" ID



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Test systems can be configured for all cylinder types

