

∅ 4" NPS Sch. 160 vs. ∅ 2" NPS Sch. 80 steel pipes			∅ 4"	∅ 2"
$\Delta P_{int} = 100$ bar	$\Rightarrow$	$\Delta \varepsilon_{\theta\theta_{mec}} - \Delta \varepsilon_{zz_{mec}}$	93.4 $\mu\text{m/m}$	133 $\mu\text{m/m}$
1 pm measurement error	$\Rightarrow$	pressure measurement error $\delta P_{int}$	0.89 bar	0.62 bar
1°C temperature compensation error	$\Rightarrow$	pressure measurement error $\delta P_{int}$	26.6 bar	18.6 bar
1 bar pressure resolution	$\Rightarrow$	temperature compensation better than	0.038 °C	0.054 °C
1 bar pressure error	$\Rightarrow$	unexplained longitudinal force variation $\delta F$	600 N	190 N