

Proof and minimum burst pressure

Ratio of proof and minimum burst pressure to working pressure

Number	Mode of operation	Ratio proof pressure: working pressure	Ratio minimum burst pressure: working pressure
1	water hoses, max working pressure 1 Mpa	1.5	3.0
2	hoses for other fluids, solid matters dissolved in fluids or air and water hoses with a working pressure above 1 Mpa	2.0	4.0
3	hoses for compressed air and other gases	2.0	4.0
4	hoses for fluids-which under reduction of pressure, i.e. blow off into atmosphere-change to gaseous condition	2.5	5.0
5	steam hoses	5.0	10.0
6	high pressure hoses	1.5	2.5

Bending radius

Measurement of the maximum admissible bending radius

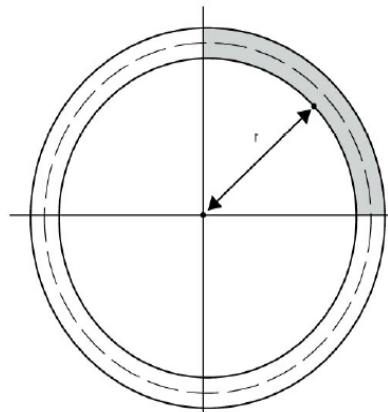
The bending radius of hoses may be influenced by:

- hose construction (number and kind of reinforcements)
- wall thickness
- kind of material (elastomer/plastomer)
- helix

As a rule-of-thumb the bending radii are:

- hoses with helix: inner diameter * 5
- hoses without helix: inner diameter * 10

In addition please take into account that hoses without helix and under pressure (>1 bar) allow distinctly smaller radii.



r = maximum admissible bending radius of hose in mm