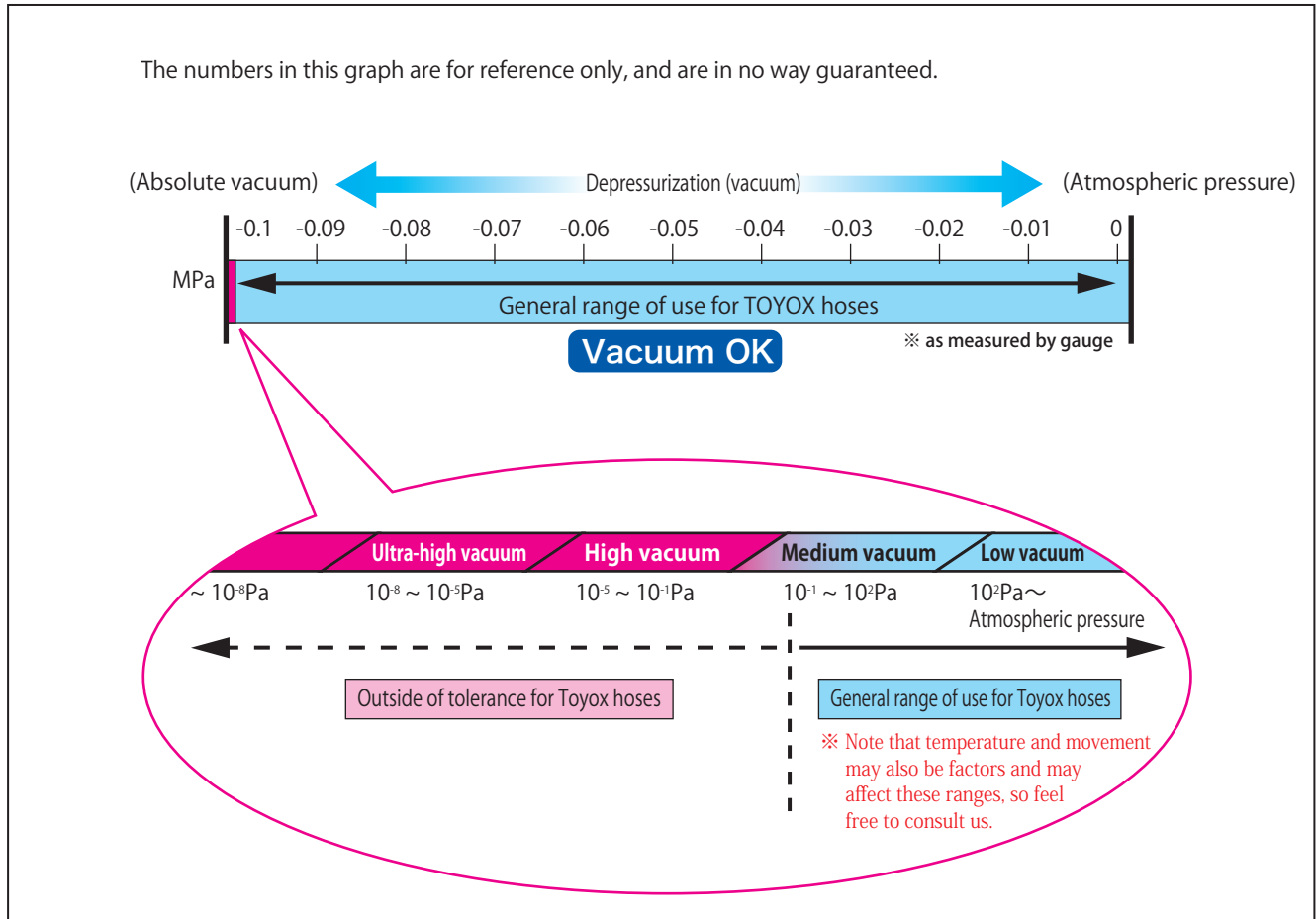
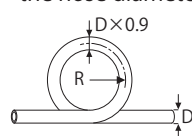


Fig. 1. Use condition reference values for TOYOX vacuum hoses



Terms explained

- 1 Impact pressure: When sealed water or air is rapidly pressurized due to operation of a solenoid valve, the pressure that hits the inner surface of the hose exceeds that of the pressure itself, which may cause the hose to rupture or the coupling to disconnect.
 - 2 Plasticizers: Substances used to make plastics such as vinyl chloride softer. Their primary components are acid and alcohol.
 - 3 Minimum bending radius: The radius (R) when the test in the figure below is carried out at room temperature (23°C) and the hose diameter (D) is 10% flat. (These values have been established by Toyox.)
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- 4 Permanent deformation: If an object is deformed and does not completely return to its normal shape after the deforming pressure is removed, that deformation is referred to as permanent.
 - 5 Separation: When the adhesive force between the inner tube and outer layer of a two-layer hose weakens, the two portions may become separated. This may occur due to excessive bending or use at temperatures outside the tolerance range.
 - 6 Swelling: When a solid object absorbs liquid and increases in volume without alteration to its structural organization, this is referred to as swelling.