

TECHNICAL DATA

Silicone hose specifications		Hose inner dimension	Working pressure	Burst pressure
Material	Silicone VMQ (Vinyl Methyl)	6 - 10 mm	10 bar	18 bar
Layer material	Polyester	11 - 18 mm	7 bar	15,5 bar
Wall thickness	Between 4 and 5 mm	19 - 28 mm	6 bar	11,5 bar
Layer quantity	Min. 3 layers (bigger sizes have 4 or more layers)	29 - 35 mm	4 bar	8,9 bar
Operating temperature	-60°C - +180°C	36 - 44 mm	3 bar	7,4 bar
Working pressure	1 - 10 bar (see table)	45 - 55 mm	2 bar	6,1 bar
Burst pressure	2,9 - 18 bar (see table)	56 - 65 mm	1,5 bar	5 bar
Hardness	65 - 75 shore A	66 - 80 mm	1,5 bar	4 bar
Tensile strength	Minimal 6,0 MPa (N/mm ²)	81 - 90 mm	1 bar	2,9 bar
Elongation at break	Minimal 200% Elongation	91 - 102 mm	1 bar	2 bar
Compression setting; 70h at 150°C	Maximum 40%			

Silicone hose specifications

- Aging and moisture resistant.
- Very good weather-resistant properties.
- Contains no harmful substances.
- Good electrical insulating properties
- Permanently elastic

Chemical resistance¹

- Diluted acids and bases (lyes)
- Hot and cold water
- Hot air
- Ozone
- UV (Ultraviolet light)

Dimensions

All sizes are in millimeter (mm). All diameters that are shown for the silicone hose products are inner dimensions (I.D.). All diameters that are shown for our aluminum products are outer dimensions (O.D.). For example: You need to have a 51 mm silicone coupler (I.D.) to connect a 51 mm alloy pipe (O.D.).

Working pressure

The working pressure is the pressure that a silicone hose is under during standard operating procedures. It is important not only for safety reasons to know the working pressure of silicone hoses, but also to ensure that each machine is equipped with the correct parts.

Limited Applicability²

- Oils, Lubricants and Greases
- OAT (Organic Acid Technology) antifreeze
- Coolant based on organic acids.

Disclaimer

We spend a lot of time and attention on the correctness of the drawings and dimensions. Despite our careful efforts, we cannot accept and bear any liability with regard to the correctness of a technical drawing.

Burst pressure

Burst pressure represents the mechanical strength limit of the silicone hose; it is the pressure which exceeds the tensile strength of the hose material. Thus, burst pressure determination incorporates the tensile strength of the silicone hose as well as the hose wall thickness.

Silicone hose length size³

Do you want to shorten a hose? Our silicone hoses are easy to cut into any desired length. For the best result, place a hose clamp exactly where the cutting line is to be applied. Take a sharp knife, for example a box cutter and use the clamp as a guide when cutting.

¹ For specific questions about, for example, the resistance to acids and bases, please feel free to contact us for more information.

² Are you looking for silicone hoses that are also resistant to coolants and liquids based on OAT and/or greases, lubricants and fuels, for example for recycling exhaust gases? Then choose our oil-resistant hoses. If you cannot find the desired silicone hose, please feel free to contact us for more information.

³ Are you unable to work with our standard dimensions? Or do you have a lot of cutting work on our basic hoses and would like to outsource this. We also offer customization! We are happy to think along with you to come up with a suitable hose. Please feel free to contact us for more information about our customization services.