

# Technical assistance for configuring your hose assembly

## Conversion table for nominal sizes

The nominal diameter of a hydraulic hose and fitting is given in DN (Diameter Nominal) and indicates the approximate inside diameter. This table serves as a support if you want to determine the nominal diameter in different units.

Nominal Size	Diameter Nominal (DN)	Inch	Size
6	6	1/4	4
8	8	5/16	5
10	10	3/8	6
13	12	1/2	8
16	16	5/8	10
20	19	3/4	12
25	25	1	16
32	31	1 1/4	20

## Conversion factor for maximum working pressure

The working pressure (dynamic working pressure) of a hose line is entered in the field max. working pressure in bar. The max. working pressure of a hose assembly must not be lower than the highest working pressure of the installation in which it is used.

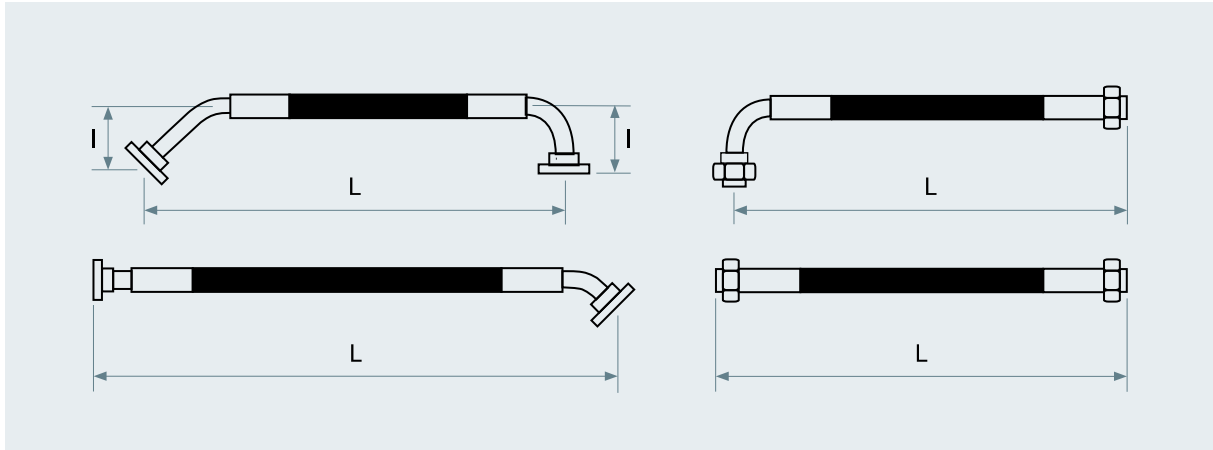
If you determine the working pressure using other units, this information can be helpful for converting psi, Mpa or kPa into bar.

Pressure		Conversion
1 psi	➤	0,06865 bar
1 bar	➤	14,5035 psi
1 MPa	➤	10 bar
1 bar	➤	0,1 MPa
1 kPa	➤	0,01 bar
1 bar	➤	100 kPa

## Determination of hose assembly length

The hose assembly length is measured from the connection of the first fitting to the connection of the second fitting. This diagram illustrates the measuring methods for straight and curved connections.

### Hose assembly length (DIN 20066)



*Avoid stand pipe fittings in new designs.  $L$  = Hose assembly length,  $I$  = Leg length*