

LENGTH AND ORIENTATION OF ASSEMBLED FLEXIBLE HOSES

The length of assembled flexible hose with straight male fittings must be measured at the extremities of the two connections. As for female fittings, the length is measured at the end of the conic seals or on the flat sealing surfaces.

In case of elbow and eye fittings, the length has to be measured on the interaxle spacing, while keeping valid the criteria described for straight fittings (Image 1).

In order to determine the correct length of the assembled flexible hose it is important to take into account also the possible lengthening or shortening under pressure, according to the construction regulations of single hoses (from +2% to -4% for hose types 1SN, 2SN, 1SC, 2SC, 4SP, 4SH, R13; +3% for hose type R7).

When the hose is assembled with one or both elbow or eye fittings, it is necessary to identify the orientation (rotation angle) of the fittings in order to make the assembly correctly.

Keeping the hose horizontally, the rotation angle among fittings can be determined starting from the fitting that is nearest to the eye of the observer. While this fitting is kept in vertically downward position, the furthest fitting is rotated counterclockwise (Image 2).

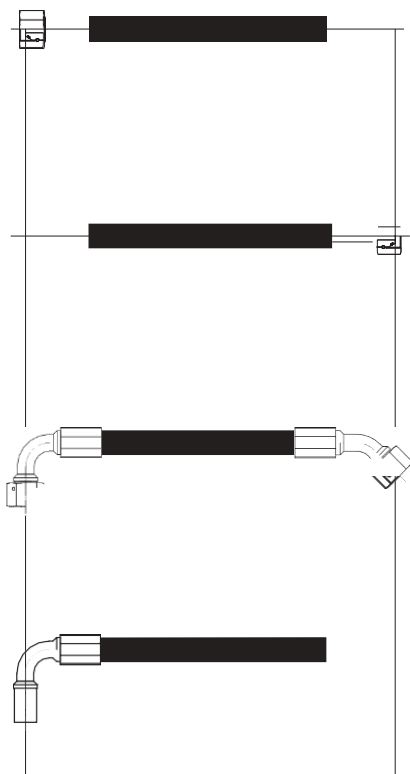


Image 1

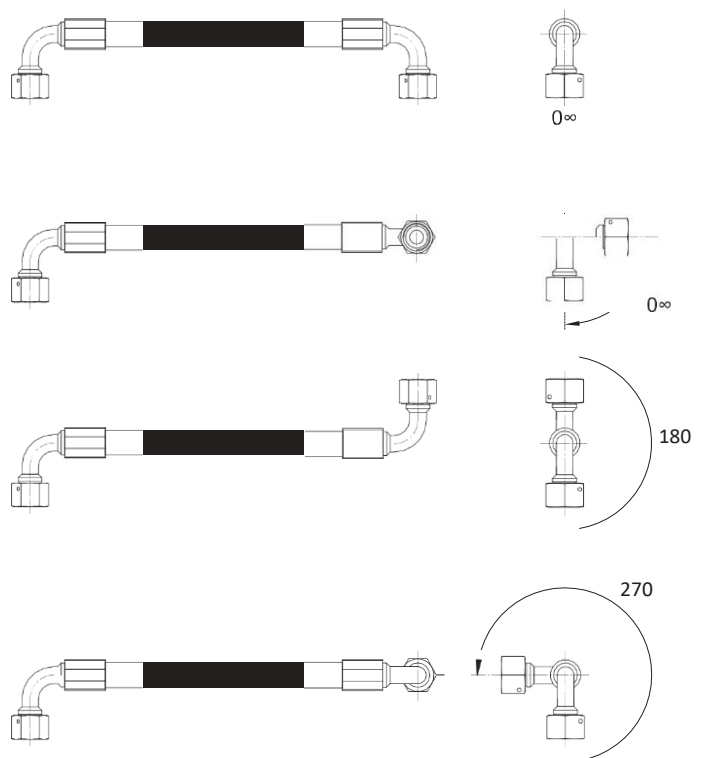


Image 2

Tolerance on lengths and orientation of flexible hoses, assembled according to regulations DIN 20066

HOSE LENGTH L	B INTERNAL HOSE		ORIENTATION B
	DA DN 5 A DN 25	DA DN >25 A DN 51	
Up to 630mm	from -3 to +7mm	from -4 to +12mm	+5°
over 630 mm up to 1250 mm	from -4 to +12mm	from -6 to +20mm	
over 1250 mm up to 2500 min	from -6 to +20mm	from -6 to +25mm	
over 2500 mm up to 8000 mm	From -0,5% to +1,5%		
over 8000 mm	from -1% to +3%		

