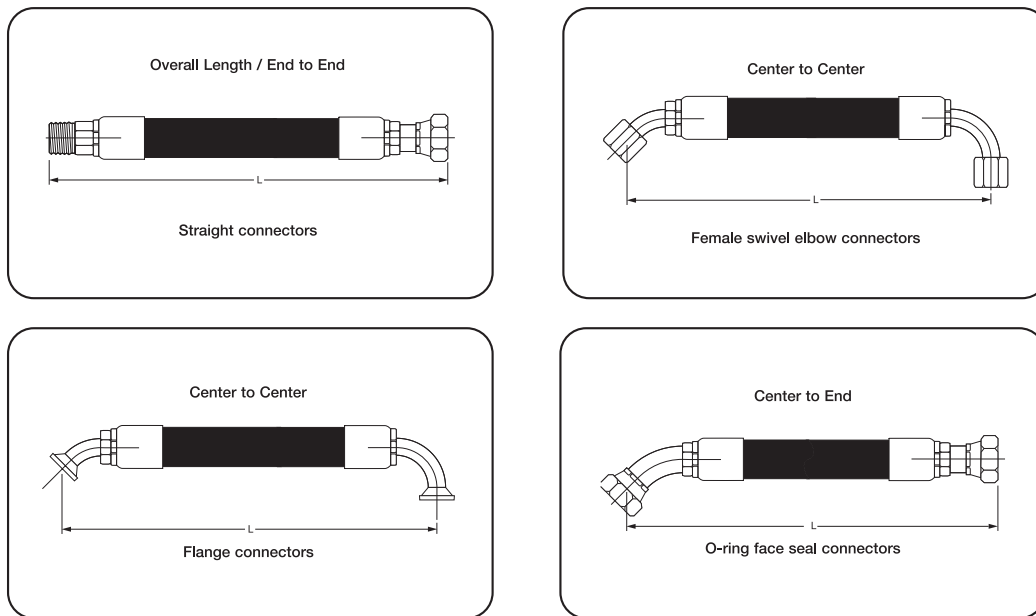


HOW TO MEASURE HOSE ASSEMBLIES

Use to Identify Length of Customer Sample and for Checking Proper Length of New Hose Assembly.

Measurement Instructions:

- Unless otherwise specified, assembly length shall be the overall length measured from the extreme end of one connector to the extreme end of the other. Where elbow connectors used, measurement shall be to the centerline of the sealing surface of the elbow end. (See figures below)
- Hold the assembly so that you can look along the length of the hose and with the fitting furthest away from you in the downwards position. Measure the angle between the vertical fitting and the one nearest to you in a counterclockwise direction to the centerline of the far end. Relationship can then be expressed from 0° to 360°.
- Method of measurement should be specified. Tolerances on assembly length shall be as in table below. (See figures below)



Assembly Length	Tolerances (Decimal Inch)	Tolerances (Fraction Inch)	Tolerances (mm)
Up through 12" (304.8 mm)	0.13	1/8	3.2
Over 12" through 18" (304.8 through 457.2 mm)	0.19	3/16	4.8
Over 18" through 36" (457.2 through 914.4 mm)	0.25	1/4	6.4
Over 36" (914.4 mm)	1%	1%	1%