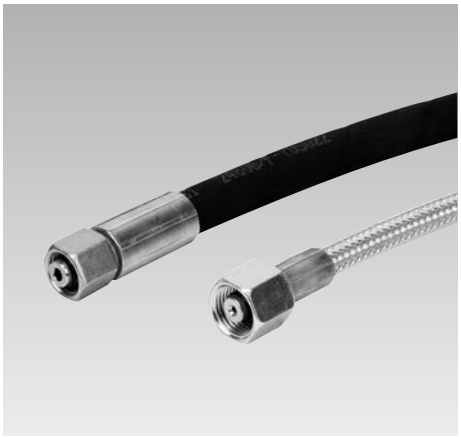
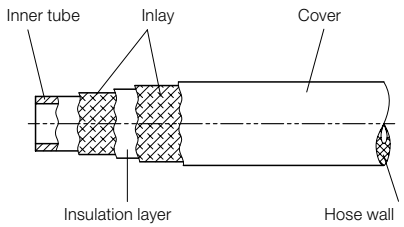
Hydraulic High-Pressure Hoses
assembled ready for connection, max. operating pressure 250/500 bar

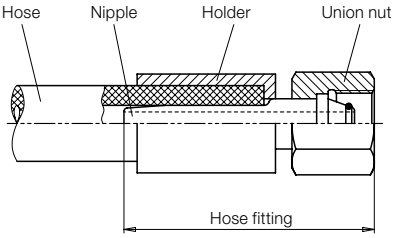


Hose structure



Depending on operating pressure and nominal diameter, high-pressure hoses consist of one or several layers of wire or textile mesh or spiral inlays.

Hose union



After pressing of the hose fittings at both ends the high-pressure hose is ready for connection.

Application

High-pressure hoses are used for energy and signal transmission in hydraulic systems.
Especially when connecting movable elements, but also for the connection of hydraulic subassemblies which are not fixed on a common base, e.g. power units and clamping fixtures.

Advantages

- Quadruple safety
- Every desired length available
- Preferred lengths available from stock
- Marking with manufacturing date as per DIN EN
- ND 4 - high-pressure hose in series with wire braiding

Service life

The application time including storage time should not exceed 6 years, the net storage time 2 years.
High temperatures, frequent motion cycles or high pulse frequencies can reduce the application time.

Maintenance

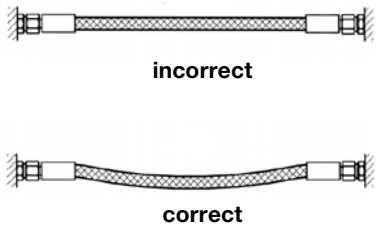
Before putting into operation and then at least once a year, the high-pressure hoses have to be checked by an expert if they are still leak-proof.

Important notes

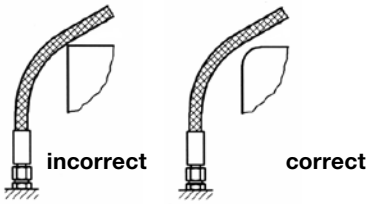
Inappropriate installation, use and maintenance can reduce the service life of high-pressure hoses.

Mounting instructions

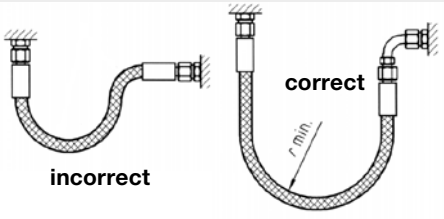
Upsetting or tensile stress

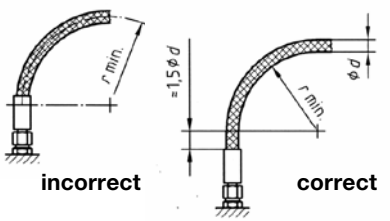


Mechanical damage

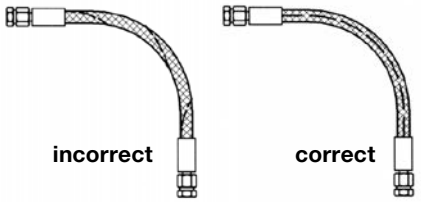


Bending radii

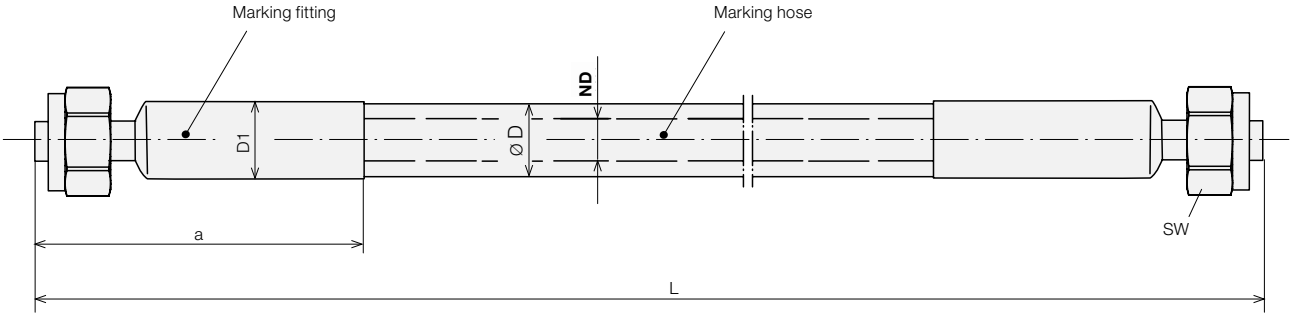




Torsional stress



Dimensions / Technical data



High-pressure hose			**ND**	**4**	**4**	**6,3**	**6**
Max. operating pressure			[bar]	250	500	250	500
Connection size				8L	8S	8L	8S
Union nut				m8L	m8S	m8L	m8S
SW			[mm]	17	19	17	19
D hose Ø			[mm]	9.5*	9.5*	15	17.5
D1 holder Ø			[mm]	13	13	19	19
Min. bending radius			[mm]	50	50	100	100
Fitting length a			[mm]	42	42	50	52
Minimum length			[mm]	150	150	200	200
Specific increase in volume per bar and meter			$\left[\frac{cm^3}{bar * m}\right]$	0.006	0.006	0.008	0.006
Part no.				**93751XXXXX**	**93752XXXXX**	**93206XXXXX**	**93706XXXXX**
Preferred lengths:	L =	500	[mm]	**93751 00500**	**93752 00500**	**93206 00500**	**93706 00500**
		1000	[mm]	**93751 01000**	**93752 01000**	**93206 01000**	**93706 01000**
		1600	[mm]	**93751 01600**	**93752 01600**	**93206 01600**	**93706 01600**
		2500	[mm]	**93751 02500**	**93752 02500**	**93206 02500**	**93706 02500**

***** with wire braiding

Marking hose

On the hose there is the following marking:

- Name or code of the manufacturer
- Number of European standard
- Type
- Nominal diameter
- Quarter and the last two figures of the year of manufacture

Marking fitting

On the fitting there is the following marking:

- Name or code of the manufacturer
- Month of manufacture
- The last two figures of the year of manufacture
- Nominal pressure PN of the hose fitting
- Part no. of the complete high-pressure hose

Important notes!

We deliver only completely pressed high-pressure hoses with mounted union nut. Pipe sockets with removable cutting ring and union nut are no longer allowed.

Code for part numbers

93XXX XXXXX

Hose length L in mm
Gradation: 5 mm
Example: L = 750 mm : **00750**
(Pay attention to the minimum length as per chart)

Nominal diameter, union nut and nominal pressure
751 : ND 4 – m8L – 250 bar
752 : ND 4 – m8S – 500 bar
206 : ND 6,3 – m8L – 250 bar
706 : ND 6 – m8S – 500 bar

Length tolerance as per DIN 20066

Hose length L	Tolerance
≤ 630 mm	+7 / -3 mm
631 – 1250 mm	+12 / -4 mm
1251 – 2500 mm	+20 / -6 mm
2501 – 8000 mm	+1,5 / -0,5 %
> 8001 mm	+3 / -1 %