



Hydraulic Accessories

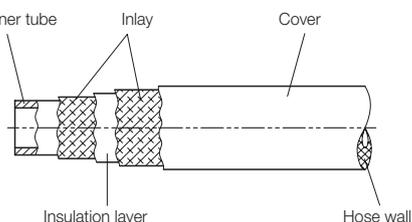
High-pressure hoses, connector blocks, couplings and plug-in connectors

Hydraulic high-pressure hoses

assembled ready for connection
max. operating pressure 250 / 500 bar

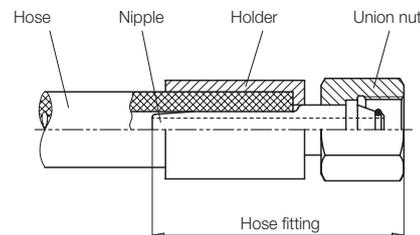


Hose structure



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 sub-assemblies 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

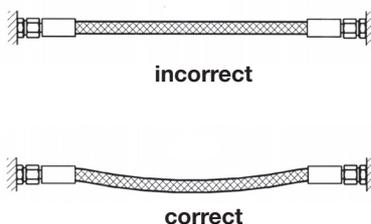
Before putting into operation and then at least once a year, the high-pressure hoses have to be checked by an expert if they are still leak-proof.

Important notes

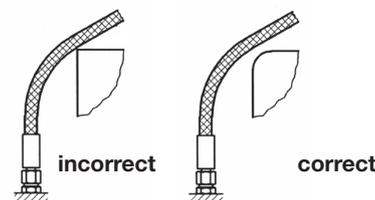
Inappropriate installation, use and maintenance can reduce the service life of high-pressure hoses.

Mounting instructions

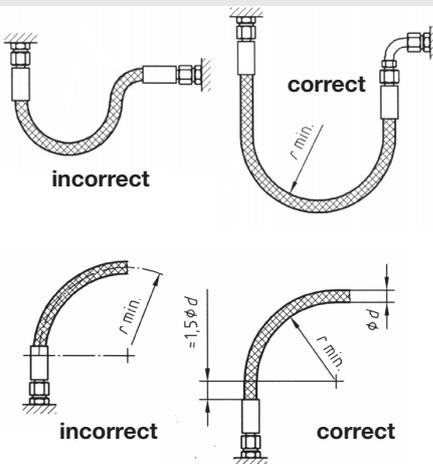
Upsetting or tensile stress



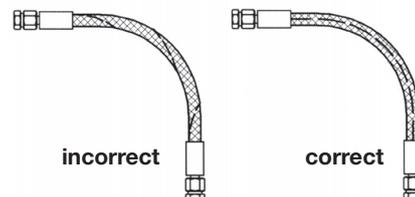
Mechanical damage



Bending radii

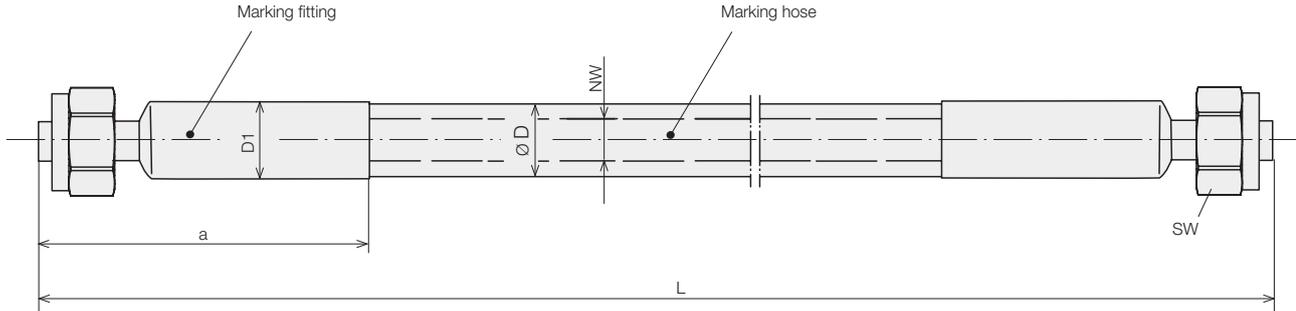


Torsional stress



Dimensions Technical Data • Part No.

Dimensions / Technical data



High-pressure hose	ND	4	4	6.3	6
Max. operating pressure	[bar]	250	500	250	500
Port 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	$\left[\frac{\text{cm}^3}{\text{bar} \cdot \text{m}} \right]$	0.006	0.006	0.008	0.006
Part no.		93751 XXXXX	93752 XXXXX	93206 XXXXX	93706 XXXXX
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 number of the complete hydraulic 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 tolerances 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 %

Further hose lengths and union nuts are available on request

Code for part numbers

27001 XXXX

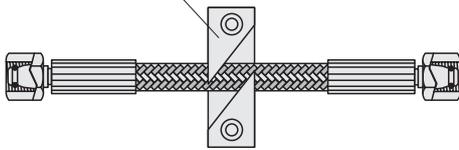
for variable lengths with hose connection on both sides

Union nut M14 x 1.5 or M12 x 1.5*

*When selecting hose connection M12 x 1.5 only max. operating pressure of 250 bar is admissible

Accessory

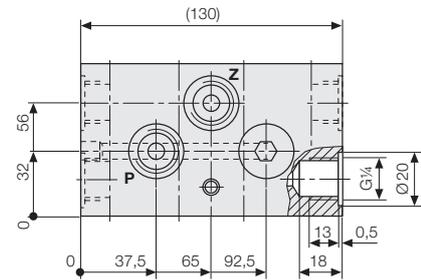
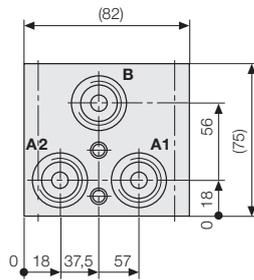
Hose holder
made from Delrin



Part no. 550650003

Connecting block

with pilot-operated check valves



Connecting threads

2 x G 3/8 + 6 x G 1/4
8 x G 3/8

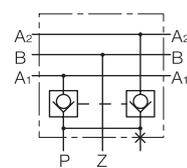
Part no.

898250290

898250300

Control pressure = 0.38 x operating pressure + 12

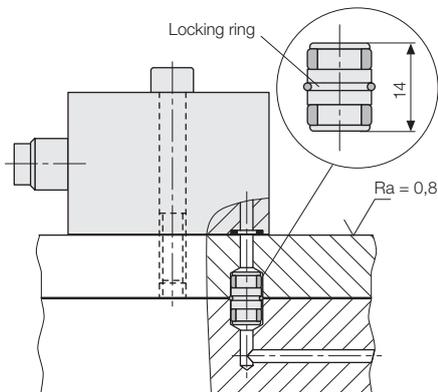
Circuit diagram



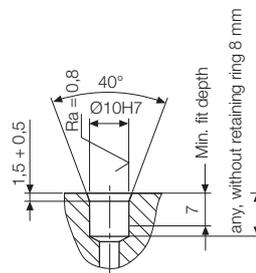
Plug-in connectors

for plates and piping boards

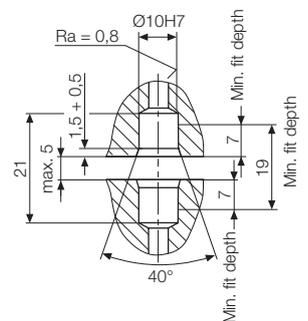
Installation example



Installation dimensions short version



Installation dimensions long version



Length [mm]	Nominal diameter [mm]	Max. operating pressure [bar]	Seal	Part no.
14	5	500	FKM	9210 132
19	5	500	FKM	9210 127

Couplings

Quick-disconnect couplings

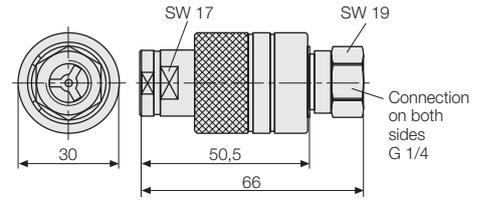


Description

The quick-disconnect couplings are couplings of sturdy design which lock automatically after uncoupling.

Connection and disconnection is made in the unpressurised condition.

The displacement of the sleeve to the corresponding coupling or uncoupling direction enables an easy one-hand operation.



Description

Description	Part no.
Coupling complete	9384 006
Coupler	9384 106
Nipple	9384 206
Dust cap for coupler	9384 300
Dust cap for nipple	9384 400
Spare seal O-ring	3001 091
Spare seal back-up ring	3000 228

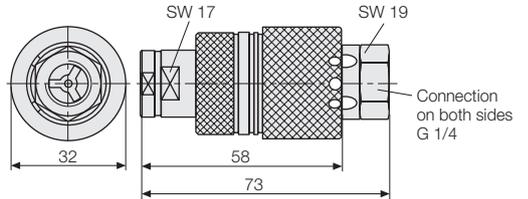
Coded couplings



Description

In case of more than one coupling port there is the risk of confusion when coupling. Coded couplings are not only marked by colour but additionally by means of a pin inside of the coupling which only fits into the groove of the corresponding nipple. The risk of confusion is thereby eliminated.

The easy handling of the coded Push-Pull couplings allows for a quick and safe finding of the mechanical code.



	Part no.	Part no.	Part no.
Coding	Coupling complete	Coupler separate	Nipple separate
black	9384 715	9384 716	9384 717
white*	9384 725	9384 726	9384 727
red	9384 735	9384 736	9384 737
yellow	9384 745	9384 746	9384 747
green	9384 755	9384 756	9384 757
blue	9384 765	9384 766	9384 767

* The white coded nipple is provided with a preloaded valve (VSV) which limits a possible pressure built-up through internal leakages in hydraulic clamping elements to approx. 5 bar. The pre-loaded valve is not effective in coupled mode.