



Hydraulics Plug In System

STH-C

Product description



STH-C, the hydraulics plug-in system by SCHÄFER

Innovative, quick and safe connection of hose and tube lines by simple plug-in. The plug-in connector is designed for high operating pressures (standard up to 350 bar working pressure) and can therefore be used in a broad field of applications. Due to the compact design and an assembly without the need for tools, the plug-in system is predestinated for the use in unfavourable installation conditions and/or automatized assembly.

- The interlocking is done by simple plugging, the plug control is carried out with a counter move control
- The locking system with 2 round wire rings is a method patented by Schäfer
- The unlocking is carried out with simple movements and a small release tool, alternatively with a release ring, which is permanently affixed to the plug
- The elastomeric system sealing guarantees a 100 % tightness, as soon as the system is connected
- The plug-in system can be connected with components via a specific profiled bore ([direct-porting*](#)), therefore a screw-in adapter can be omitted in the ideal case

*Directporting: Further information to this subject you get here!



If you are interested in our components for service and test facility please contact our [sales organisation!](#)



Technical Specification

Nominal Pressure
350 bar*

* Operating pressure > 350 bar available with separate approval process

Burst Pressure
Min. 4 x Nominal Pressure

Temperature Range
-35 °C – +135 °C

Material Quick Connector
Steel

Material System Sealing
HNBR

Range STH-C
Größe 6 bis 20

Range Hose Connection
DN 2 bis DN 20

Range Tube Connection
4,0 bis 22,0 mm

More information
[STH-C in website](#)

Expansion pressure range or alternative materials available by request

Features



Threadless connections -plug-in systems - are becoming more and important for the layout of new hydraulic systems. Due to our years of experience in this field, we have been able to consistently develop the plug-in system further. STH-C provides a unique combination of all benefits of a modern plug-in system and at the same time the guarantee of million fold use due to the proven connection technology.

Features of STH-C

- **Considerable reduction of assembly time**
Simple connection instead of screwing in
- **Optimized design of constructed space by minimized space requirements**
No assembly tools are necessary, disassembly with a small extraction tool
- **Saving potential by reduction of components**
New connection components allow a reduction of number of components as well as of the total weight
- **Permanently tight hydraulic system**
Leakages by under or over-tightening can be excluded by the 2 ring-interlocking technology
- **A connection technology confirmed by the market**
Millions of this connection technology are used

Application fields



STH-C, the hydraulics plug-in system by SCHÄFER

The connection was developed for fluid-carrying systems with high operating pressures. Possible applications in the smallest installation spaces and a large saving potential regarding the assembly times make the plug-in connector the best solution for numerous applications in all industrial sectors.

Applications for STH-C are amongst others:

- Steering hydraulics
- Clutch hydraulics
- On/off hydraulics
- Fuel systems
- Mobile hydraulics
- Brake hydraulics
- Cooling systems
- Driver's cabin - tipping hydraulics



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Service tools



Our long years of experience have shown that also the fields test facility and after sales service for customers have their own requirements for the use of the plug in system in addition to the connection components for the actual series production. This results in a number of components specifically developed for this segment, which we listed in a separate overview. In this connection, the actual application (in a truck, tractor or forklift truck) plays a minor role that the general requirements, such as e.g. testing of hydraulics circuits at the end of an assembly line or a repair at the customer's site or in the workshop.



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For more information on all Schäfer programs please visit our website in english at:

www.jsch.de

In addition to the variants presented on the previous pages, the plug-in system STH-C can also be delivered in further versions. These are briefly introduced below.



Integrated leakage stop

Variation of the plug-in system, in which the connection components of STH-C are equipped with an integrated non-return valve on one side or on request also with the option of shutting both sides. Therefore, even pre-filled hose or tube lines can also be used. This version is already used in the cooling and temperature control technology. You will find further information here: Products / plug-in system / cooling and temperature control technology called [STH-C ALS](#)



Preformed tube

Variation of the plug-in system, in which preformed tube lines with roller-burnished STH-C design are used. You will find further information here: Products / plug-in systems / hydraulics called STH-P / [STH-P](#)



Rotatable version

Variation of the plug-in system suitable for intermittent operation (swinging movement) under high pressure (420 bar operating pressure). Please download the [productsheet STH-C rotatable version!](#)



Integrated release ring

Variation of the plug-in system with integrated release ring. The release ring is permanently integrated in the plug (male) and replaces the separate release tool. For further information please contact us: [Contact persons!](#)

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