



Plug In System for Air Pressure Applications

SDF

Product description



SDF the plug-in system for compressed air applications by SCHÄFER

With the Schäfer plug-in system SDF hose and tube lines can be connected to compressed air equipment and tanks or lines can be connected by simple plug-in. SDF was designed as two-step plug-in connection, which is meanwhile defined as standard requirement for the application fields of pneumatic brakes by many customers. This also results in a higher safety degree in addition to operator convenience and easy handling.

- Interlocking is done by simple plug-in
- The retaining ring made of spring steel (special steel) serves as catch mechanism after reaching the 1. rest position and locks the system permanently and reliably after reaching the 2. rest position (end position)
- The connection is disassembled by unscrewing the retaining screw



Technical Specification

Nominal Pressure
(Compressed Air Brake)
15,5 bar

Burst Pressure
Min. 4 x Nominal Pressure

Temperature Range
Depends to the Application

Material Quick Connector
Brass

Material System Sealing
According to Medium

Range SDF
Size NG 6

Range Tube Connection
4.0 + 6.0 mm

Polyamide Tube
PA 11 and PA 12 acc. DIN 74324 Part 1

More information
[SDF in website](#)

Expansion of size range and connecting range as well as alternative materials available by request

Features



SDF, the plug-in system for compressed air applications by SCHÄFER

The plug-in system SDF with fir-tree is used in combination with standardized and pre-assembled line sets. The two resting steps of the plug-in system with integrated catch mechanism and the option of plug-in under pressure provides a high degree of plug-in reliability. These safety features were developed specifically for the sensitive application of pneumatic air brakes for trucks.

Features SDF

- **Low pre-assembly effort**
SDF consists of 2 connection components (plug and retaining screw), while comparable systems on the market require up to 4 connecting components for the same application
- **Functional elements arranged captively**
All functional elements are arranged at the plug and the retaining screw. The stepped bore does not contain any single components.
- **Integrated catch mechanism**
The design with two resting steps offers an increased plug-in reliability. The integrated catch ring mechanism prevents a release of the connection already after the first resting step is reached.
- **Plug-in under pressure possible at any time**
If the plug-in system remains in the first resting step, a defined leakage indicates that the end position is not reached. Plug-in in the end position under pressure is possible at any time.

Technical Specification

Nominal Pressure
(Compressed Air Brake)
15,5 bar

Burst Pressure
Min. 4 x Nominal Pressure

Temperature Range
Depends to the Application

Material Quick Connector
Brass

Material System Sealing
According to Medium

Range SDF
Size NG 6

Range Tube Connection
4.0 + 6.0 mm

Polyamide Tube
**PA 11 and PA 12 acc. DIN
74324 Part 1**

More information
[SDF in website](#)

Expansion of size range and connecting range as well as alternative materials available by request

Application examples



SDF the plug-in system for compressed air applications by SCHÄFER

SDF is a plug-in system for low pressure applications. Due to the simple and safe handling, it is suitable specifically for unfavourable installation conditions and automated assembly. The main applications are compressed air systems for vehicle construction. In combination with the corresponding hose or tube line, however, other media in the field of low pressure applications can generally also be used.

Applications for SDF are amongst others:

- Compressed air systems for vehicle construction:
- Pneumatic brake
- Air suspension
- Rotation snow chain systems
- Compressed air distribution systems

Technical Specification

Nominal Pressure
(Compressed Air Brake)
15,5 bar

Burst Pressure
Min. 4 x Nominal Pressure

Temperature Range
Depends to the Application

Material Quick Connector
Brass

Material System Sealing
According to Medium

Range SDF
Size NG 6

Range Tube Connection
4.0 + 6.0 mm

Polyamide Tube
PA 11 and PA 12 acc. DIN 74324 Part 1

More information
[SDF in website](#)

Expansion of size range and connecting range as well as alternative materials available by request

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

www.jsch.de

