

## FAQ - SERV-CLIP<sup>®</sup> & FLUID-CHECK<sup>®</sup>

<p><b>Why SERV-CLIP<sup>®</sup>?</b> (Measuring connector for hydraulic installations)</p> <p><b>Which applications does SERV-CLIP<sup>®</sup> support?</b></p> <p><b>SC - Type 1</b> (for installation on pressurized pipes)</p> <p><b>SC- Type 2</b> (for installation on non-pressurized pipes) The cheaper option</p>	<ul style="list-style-type: none"> <li>√ Quick installation (3 minutes)</li> <li>√ No need to cut pipes</li> <li>√ Immediately ready for use</li> <li>√ Instantaneous measurement results</li> <li>√ No downtime (Type 1)</li> </ul> <p>Pressure measurements Sampling Venting / Connecting pipes Installation of pressure switches or fluid-Check<sup>®</sup> pressure sensors</p> <p>Pressure measurements Sampling Venting / Connecting pipes Installation of pressure switches or fluid-Check<sup>®</sup> pressure sensors</p> <hr/> <p>Temperature and flow rate measurements using fluid-Check<sup>®</sup></p>
<p><b>Why should I use SC-2 for pressure, temperature and flow rate measurements?</b></p>	<p>Very fast installation No need to cut pipes No cleaning Minimized downtime</p>
<p><b>Which applications does the flow rate sensor fluid-Check<sup>®</sup> support?</b></p>	<p>Monitoring and control of plants and machinery, e.g.: pump flow rates, storage bottle, Filter function, heat exchangers, nozzle flow rates.</p>
<p><b>How it works:</b> <b>SERV-CLIP<sup>®</sup> Type 1</b></p>	<p>Measurements in the pressurized condition. A needle is screwed down to penetrate the pipe wall and create a hole. Afterwards the needle is unscrewed again, and the measuring connector is immediately ready for use.</p>
<p><b>How it works:</b> <b>SERV-CLIP<sup>®</sup> Type 2</b></p> <p><b>What can I do with SERV-CLIP<sup>®</sup> Type 2?</b></p>	<p>- The cheaper option – - Only for installation on non-pressurized pipes - The hole in the pipe wall is created in the same way as with SERV-CLIP<sup>®</sup> Type 1. <b>However, the needle is removed afterwards.</b></p> <p>With SERV-CLIP<sup>®</sup> Type 2, you can connect pipes or hoses directly. Ideal for measurement connections (fluid-Check sensors), controlling valves</p>

<b>Can I install a SC on a stainless steel pipe?</b>	Only for pipes with wall thicknesses up to 2 mm. Material 1.4571 (Special designs for stainless steel pipes available upon request).
<b>Why is the wall thickness limited to 2 mm?</b>	The needle might break.
<b>Can the needle also break when it is used with pipes made of plain carbon steel?</b>	No, the needle can penetrate pipe walls with thicknesses up to 5 mm without any problem. Special designs (up to 10 mm) are available upon request.
<b>Can I also connect stainless steel pipes with greater wall thicknesses?</b>	Only available in customized versions which have to be tested with the type of pipe used.
<b>Are the housings also available in stainless steel?</b>	Only available as custom-built models ordered in larger quantities (due to the high cost of manufacturing).
<b>Is the SERV-CLIP<sup>®</sup> tight after it has been installed?</b>	The use of a lock ensures that the O-ring is optimally fixed between the pipe and the upper part of the housing.
<b>How is the O-ring fixed in the lock?</b>	The O-ring is supported outwards, always perpendicular to the axis of the pipe
<b>Which pressure levels does the seal support?</b>	In tests, the seals withstood pressures of up to 2,400 bar.
<b>Which pressures does SERV-CLIP<sup>®</sup> support?</b>	SERV-CLIP <sup>®</sup> did not show any damages in tests with pressures of up to 2,400 bar.
<b>How warm may the atmosphere or the hydraulic oil be?</b>	All O-rings are made of Viton. This material can be used for temperatures of up to 180 °C.
<b>Is there any preparatory work I have to do prior to installing SERV-CLIP<sup>®</sup>?</b>	The place in which you wish to install SERV-CLIP <sup>®</sup> must be clean and free of any damages.
<b>Can SERV-CLIP<sup>®</sup> slip (i.e. be displaced) on the hydraulic tube?</b>	The screwed joint between the upper and lower part of SERV-CLIP <sup>®</sup> creates a high pre-stress on the pipe, ensuring that it remains in its position even in case of strong vibrations.
<b>What happens if still there is pressure while SC Type 2 (which is to be used in the non-pressurized condition) is being installed?</b>	No problem because the needle has a tapered shape and tightly seals the hole in the pipe wall.
<b>Can the needle create swarf when it penetrates the pipe wall?</b>	No, the needle creates a plastic deformation, which involves only minor distortions of the pipe wall. Particle measurements confirmed that oil quality is not degraded.

<p><b>Can the installation of SERV-CLIP<sup>®</sup> affect the flow characteristics inside the pipe?</b></p>	<p>No changes have been found in normal hydraulic installations.</p>
<p><b>Which quality standards is SERV-CLIP<sup>®</sup> subject to?</b></p>	<p><b>Metric system</b> DIN 2391 standards -Diameters from 10 to 42 mm <b>Tube system</b> (US – SAE standard) -External diameters from 3/8" to 2" <b>Pipe system</b> (warm rolled) For pipes DIN 2440/2441 US standards and Schedule 80 &amp; 160 -Internal diameters from 1/4" to 3"</p>
<p><b>What is the presentation of the product?</b></p> <p>Instructions of use inside of the package (German/English/French) Please mention on your order the wished language. Approx. weight according with the ordered diameter and type (0,750 -1 kg.)</p>	<p>There are a printed mark on the SC with the type and the diameter. You get the product in a little package with the corresponded diameter on a label. You have the option to save money with our service-suitcases for 8 units with several combinations that we can offer you.</p>
<p><b>Does it make sense to remove SERV-CLIP<sup>®</sup> after the measurements have been completed?</b></p>	<p>Dismantling SERV-CLIP<sup>®</sup> is not economical because of its little cost and the high amount of efforts required.</p>
<p><b>What I need to order the flow rate fluid-Check<sup>®</sup> sensor?</b></p>	<p>You have to decide if you wish that we calibrate it. For it you have to inform us : ID of the pipe or pipes where I wish to install it and min/max litre/minute. You get for each mentioned ID a results technical sheet for reading the results in mA vs. litre/min</p>
<p><b>What I need to read the results of sensors?</b></p>	<p>You have the option to buy by us the measuring suitcase FM-1-B (analogue for 2 outputs) You can use this product to calibrate the flow rate sensor fluid-Check but it is important to have a test pipeline with the several ID for this goal.</p>

Convince yourself and test

**SERV-CLIP<sup>®</sup> & FLUIDCHECK<sup>®</sup>**

**It's not only better. It's different!**

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