

Tools & Machines

Schneider DirectMount Systems, the enemy of gauge line errors

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📷 Unlike conventional systems, the Schneider DirectMount Systems do not require the installation of tube runs, fittings, and expensive pipe stands. Pictures by: Armaturenfabrik Franz Schneider GmbH + Co. KG

When transporting natural gas through pipelines to suppliers or directly to the customers, it is especially important to pinpoint the flow rates exactly. This is because inaccuracies have a huge financial impact – regardless of whether the natural gas customer is charged too much or too little.

Therefore, special measurement set-ups are used. AS-Schneider offers the Schneider DirectMount Systems (SDMS) for this application. The mounting systems are designed to provide a reliable, accurate and tight connection between electronic pressure gauges and the orifice plate. This can significantly reduce the effects of a measurement line error.

For more accurate natural gas measurement, electronic differential pressure devices are used. These should be connected as close as possible to the outlet opening of the pipeline orifice plate. A variety of shut-off valves are used between the orifice plate and the transmitter, making it possible to service and calibrate the transmitter. Due to space problems

during assembly, many suppliers supply the valve unit in individual pieces, which can only be assembled on site under harsh conditions. For this purpose, a part of the valves must already have been mounted on the orifice plate. In the worst case, this leads to leaks.

Easy and cost-effective installation

This is exactly where the SDMS by AS-Schneider come in, which score with their simple installation. The SDMS are available as a vertical and horizontal installation. Unlike conventional systems, users do not need to install tube runs, fittings, and expensive pipe stands. Instead, you successively assemble two stabilized connectors. If the stabilized connectors are assembled, you can easily assemble the second part with a nut to the valve, without rotating it. This greatly simplifies assembling and significantly reduce assembly costs. In addition, the system reduces potential leak points as the SDMS are delivered preassembled.

Special supports provide more stability

The heart of the system is the above mentioned patented stabilized connector with integrated shut-off valve. In order to be able to connect the manifold to the measuring orifice flange, a special adapter is necessary. This adapter is supported on the body of the measuring orifice flange which provides for more stability. The entire structure with the 5-valve manifold and transmitter or flow computer has, however, a high net weight. In addition, vibrations from the pipeline can affect this connection so that this thread is often damaged or destroyed. With the stabilized connector, this risk has been minimized. The patented system is thus much more protected and allows a professional and simple assembly even in harsh conditions. The user thus receives a safe, compact and leak free measurement installation.

About AS-Schneider

The family-run company, AS-Schneider, was founded in 1875 and with over 350 employees, is one of the leading manufacturers of Instrumentation Valves and Manifolds worldwide. In the market segment for Large-Bore Diesel Engine Valves such as those used in marine propulsion and the generation of electricity, AS-Schneider is even the world market leader. AS-Schneider has subsidiaries in Romania, Singapore, Dubai (UAE) and Houston (USA) and professional partners in more than 20 countries worldwide.



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