

Product Information

February 2019

Traditional flush rings have several disadvantages. Close coupled flush rings are the bespoke solution to those problems:

Close Coupled Flush Rings Save Time and Money

Nordheim (Germany) – February 19, 2019 – Traditional flush rings use impulse lines. These lines connect a measuring device or transmitter to the system. The device or transmitter then collects and forwards the corresponding parameters. This method has several disadvantages. AS-Schneider offers a bespoke solution to these problems: close coupled flush rings. They make flush rings to their customers' requirements.

Unlike impulse lines, close coupled flush rings have a simple installation process. This type of flush ring is easy to handle. It is a true plug and play application. AS-Schneider delivers the flush rings assembled and tightened to customers' specifications. They also deliver the corresponding documentation. All flush ring assemblies come equipped with a metal tag plate. This plate identifies its measuring spot on site and the properties of the assembly.

In the chemical industry, flush rings are essential. The industry uses them for diaphragm seals. These rings prevent clogging of the instrument connection. The technician mounts the ring between the process flange and the diaphragm seal. It has flushing ports and membranes. The flushing ports allow users to wash out particles from in front of the membrane. It also has a pressure chamber, which users can vent, drain, or fill with cleaning liquid. The user can then flush the chamber.

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Impulse lines: Difficult to install and time consuming

The impulse lines used for traditional flush rings call for lots of planning. They are also tricky to install, time-consuming, and a potential source of errors. Plus, they are prone to leaks, which falsify the measurement results and impair safety.

Another problem occurs after the primary isolation valve closes. A small amount of the pressurized medium remains in the pipeline section. This residual medium gets trapped between the primary isolation valve and the transmitter. The operator must collect and dispose of it in a manner that meets regulatory standards.

Impulse line flush rings call for several parts and accessories. These parts and accessories take time to select and buy. The buyer then has to do on-site activities such as inline commissioning. During the final assembling, technicians have to ensure that they don't mix or use wrong single parts. They also have to create tight connections. They must have all the needed tools on site. They then have to test the assembly and mark the items.

Direct connection to the process line

AS-Schneider, the specialists for industrial valves, has come up with the right solution: close coupled flush rings. Close coupled products have a direct connection to the process line and do not use impulse lines. They save users time and money while increasing their safety level.

With close coupling, engineers and technicians can start the assembling process right away. They don't have to lose time commissioning loose parts, bending pipes, and testing. Technicians can omit pressure trials on the measuring line. Close coupled flush rings also do not call for

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time-consuming welding work. The assembly is compact and straight. It is very stiff, resistant against vibrations, and rodable. These qualities guarantee a long life for close coupled flush rings.

Close coupling also reduces the risk of leakage, a critical feature in the oil and gas, chemical, and petrochemical industries. These industries must provide storage for fuel, oil, gas, and various chemicals. They also have to store wastewater. The holding capacity of the storage tanks is often several million liters. Leaks can be disastrous to both the company and the environment.

The tight seal on close coupled flush rings improves measurement results. It also increases plant safety. After all, some of the substances contained in the holding tanks are corrosive or toxic. Others are flammable or environmental hazards. The technician must ensure that there is a system to capture and dispose of all gases and liquids. Proper disposal is a legal requirement. The only exceptions are nitrogen, oxygen, and drinking water.

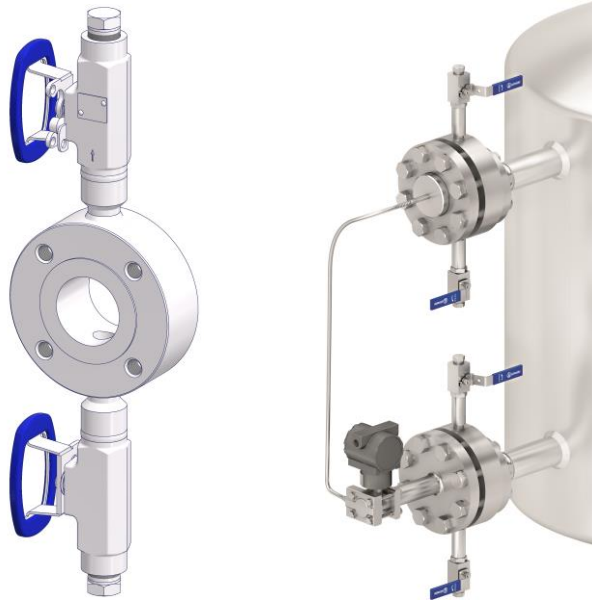
AS-Schneider manufactures its close coupled flush rings from different materials. The primary materials used are carbon and stainless steel. They also manufacture rings from different alloys for specific applications. For example, they line some rings with Teflon on the inside when handling specific media.

Scope: 4,520 characters including spaces

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Captions:



Picture 1 & 2: Close coupled flush rings have a direct connection to the process line and do not use impulse lines. They save users time and money while increasing their safety level.

Pictures by: Armaturenfabrik Franz Schneider GmbH + Co. KG

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, Manifolds and Double Block & Bleed Valves 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. With our own subsidiaries in Romania, Singapore, Dubai (UAE) and Houston (USA) and professional partners in more than 20 countries worldwide, we are located everywhere our customers need us.

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