



schneider
Tailored to Your Business

FOCUS

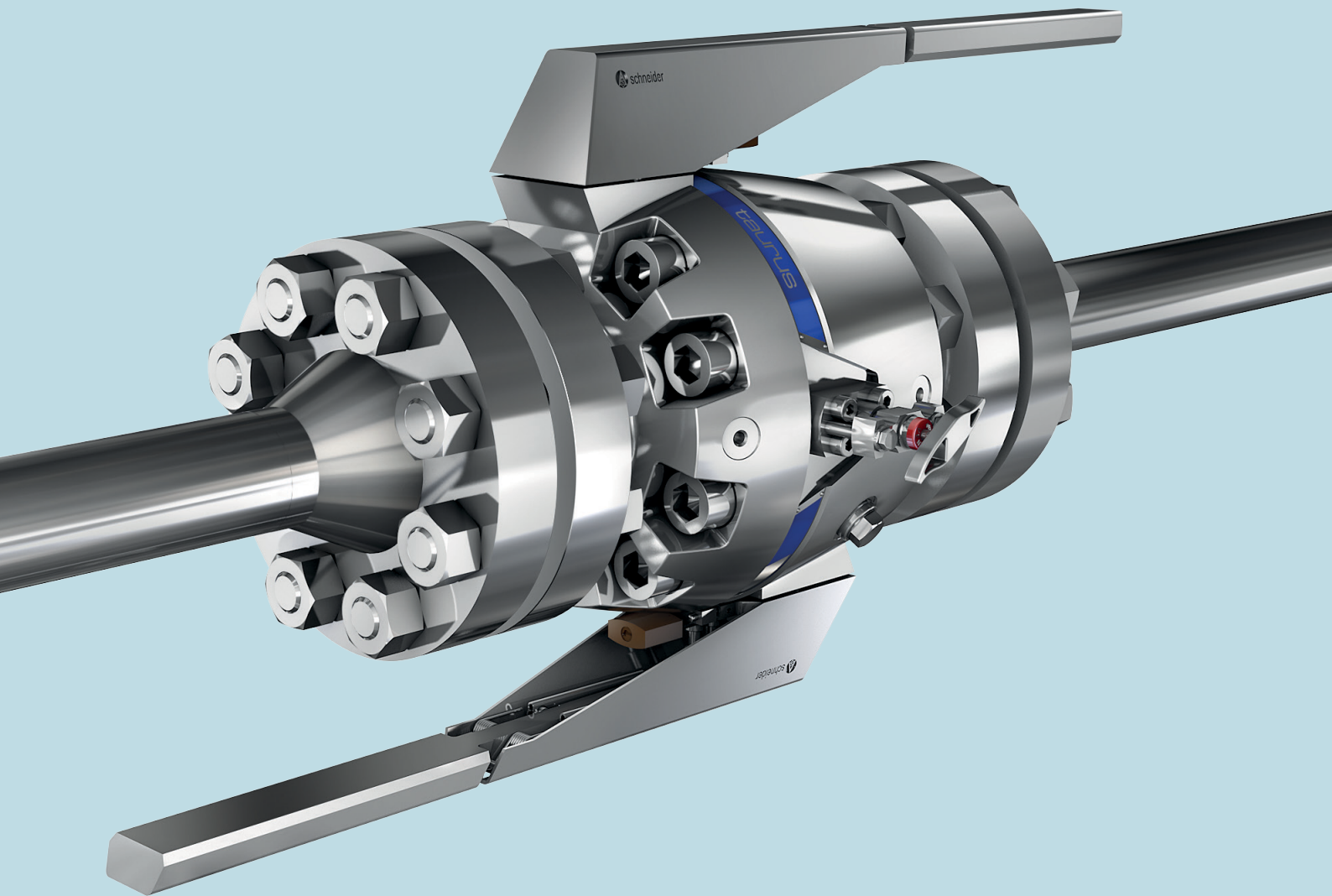
PLEASE VISIT US AT OUR LOCAL AGENT BOOTH ...

AGENT:



IVS
ITALY

27TH - 28TH MAY
2015
Booth A - 27



**NEW VALVE HEAD
UNIT - E SERIES**

**NEW PRODUCTS:
TAURUS SERIES**

**NEW PATENT
PENDING**

Dear Readers,



we want to inspire you: With the many new products and innovations we are introducing to you in our current FOCUS issue. We are excited about the good job that our Development Department has done once again in the past few months – as you can read in the reports, the results will set new standards in the industry. Our engineers have been particularly busy with our main product group "E Series" where they have technically reworked it, optimised it to the smallest detail and equipped it with several new features.

Numerous other products have also been newly developed for use in the natural gas sector which precisely correspond to the wishes and suggestions of our customers. With these innovations, you can see how much we value our customers' ideas and just how seriously we take their needs.



EXPANSION
TO 3,120 M²



10 YEARS AS-SCHNEIDER IN ROMANIA

The Romanian subsidiary of AS-Schneider celebrated its tenth jubilee on 13 June 2014 and give themselves the best jubilee gifts: the inauguration of a second production hall which more than doubles the production area from 1,300 m² to 3,120 m².

AS-Schneider has invested around one million euros in the construction project. An investment whose benefits will soon be felt by the entire group. "Because through the expansion of our factory in Romania, we are also expanding our growth potential for all other branches," according to Managing Director Rolf Kummer. "This will, of course, also bring clear advantages to our headquarters in Nordheim."

The history of the Swabian Industrial Valves manufacturer in Romania began in 2004 with the establishment of the subsidiary Armaturenfabrik Franz Schneider SRI and the opening of the plant in Brasov. At that time, 60,000m² of property was purchased – we were already planning for the future. In 2012, the subsidiary added its own on-site sales team to the Sales Department. In 2013, a new sales office in a strategically good location, the centre of the city of Ploiesti was opened.

We are especially eager to hear the reaction of the experts to our newly developed Double Block & Bleed Pipeline Ball Valves from 1 inches. This product range will be offered under the name Taurus in the future and distinguishes itself not only with its sophisticated technology but also through its modern design.

You can experience all these product innovations live at our trade fairs in November and December. We cordially invite you to visit us at our booth:

**ADIPEC
in Abu Dhabi**

10th – 13th Nov. 2014
Hall 8; Booth 8375

**OSEA
in Singapore**

2nd – 5th Dec. 2014
Booth IT5-06

**VALVE WORLD
in Düsseldorf**

2nd – 4th Dec. 2014
Hall 4; Booth 4G32

For more information on our product innovations, you can also contact our Sales Team directly in Germany, Romania, Dubai, the USA and Singapore as well as our Sales Partners worldwide.



Rolf Kummer
CEO AS-Schneider Group

NEW

PRODUCTS



Direct Mount Traditional Style Manifolds and Universal Mounting Bracket

For our new Direct Mount Traditional Style 2, 3 and 5 Valve Manifolds we designed a new Universal Mounting Bracket – AKM-U Type. You can find the new manifolds and the bracket also in our latest revision of our E Series Valves and Manifolds catalogue AS-260I – page 34 to 37. But this Universal Mounting Bracket is not only designed for the Traditional Style Manifolds but also for our Wafer Style Manifolds which makes the bracket really universal. The bracket is suitable for both horizontal and vertical impulse piping installations and gives an ideal access when installing manifold and transmitter.

Double Block & Bleed Manifold including Mounting Bracket

Another new product in our revised E Series Valves and Manifolds catalogue is the new C-Type Double Block & Bleed Manifold – see page 20 – which can be provided as standard with a mounting bracket – AKM-G Type – for 2" pipe installations. The Double Block & Bleed Type is a perfect completion to our Block & Bleed Manifold Series.

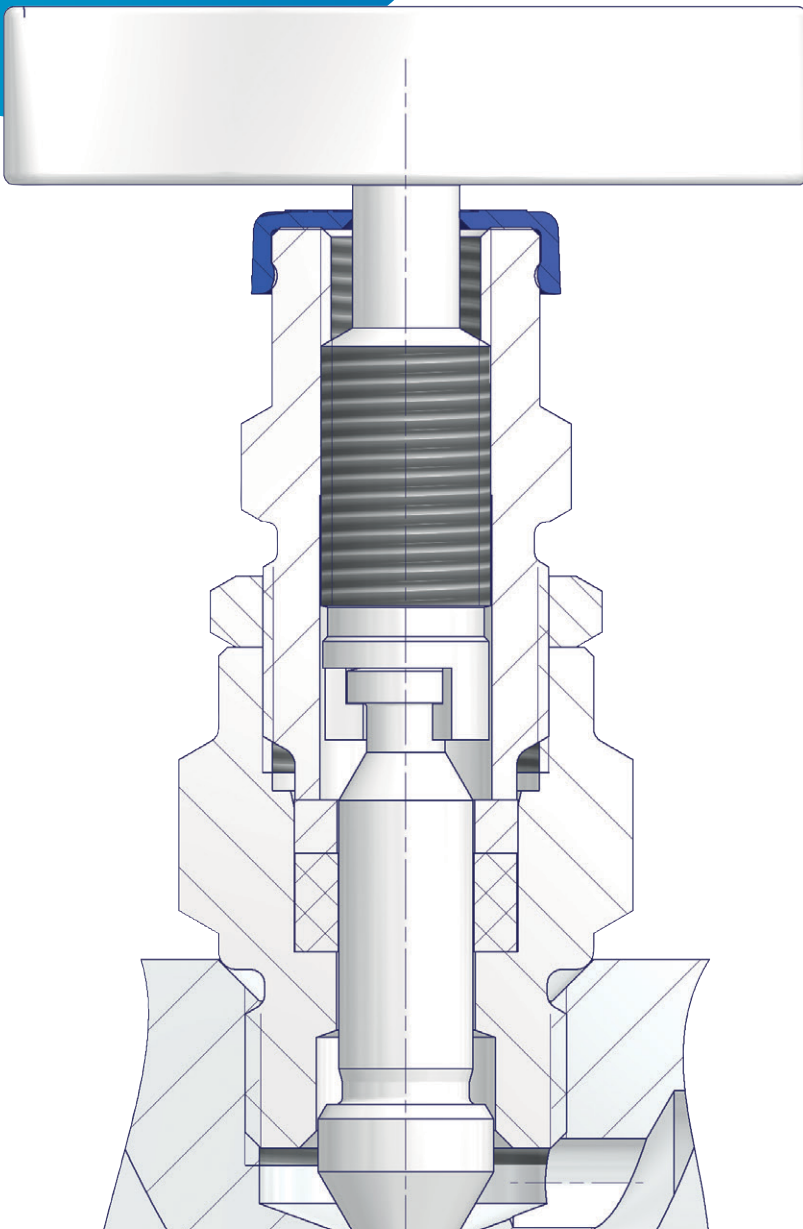
NOW
AVAILABLE

NEW VALVE HEAD UNIT –
THE NEXT GENERATION

E SERIES

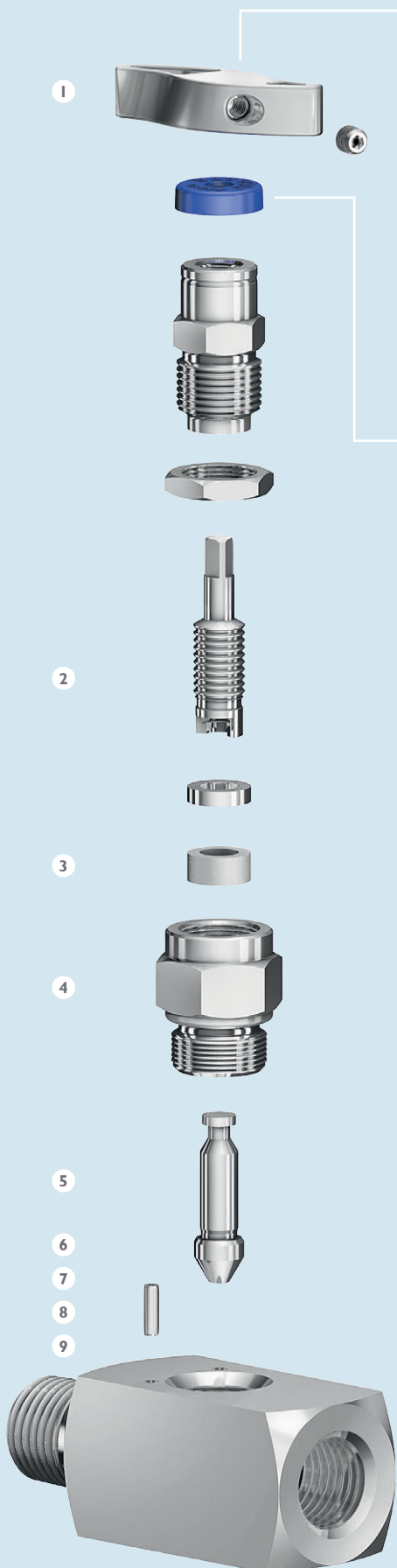
E Series Valves and Manifolds – the right choice when highest requirements are placed on the safety of the shut-off function.

Please ask the Sales Team of AS-Schneider for further product information about the new E Series.



- **Bill of Materials**
All non-wetted parts are in 316 Stainless Steel.
- **New Stem Design**
Results in a considerably reduced operating torque.
- **Non-rotating Needle**
For smooth operation and minimum wear of sealing elements (Packing/O-Ring).
- **Color Coded Dust Cap**
For stem thread protection and also the functional identification – Isolate (blue), Equalize (green) and Vent (red).
- **Color Coded Options** (see next page)
For an easy identification of standard options.
- **Ergonomic Handle Design**
Positively locked: Means, Stem and T Handle are connected by a square and positioned by a set screw.
- **Increased Max. Allowable Temperature**
PTFE up to 232 C (450 F).

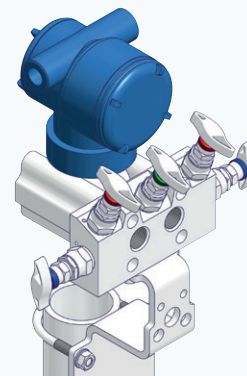
STANDARD VALVE DESIGN



- The reduced operating torque results in a shorter T Handle.
- Additionally AS-Schneider optimized the inclination angles of the valve head units (mainly equalizing valve and vent valves).

YOUR BENEFIT

As a result of both improvements AS-Schneider 3 and 5 valve manifolds can be operated even when transmitters with unfavorable dimensions are assembled.



Color Coded Dust Cap

For stem thread protection:

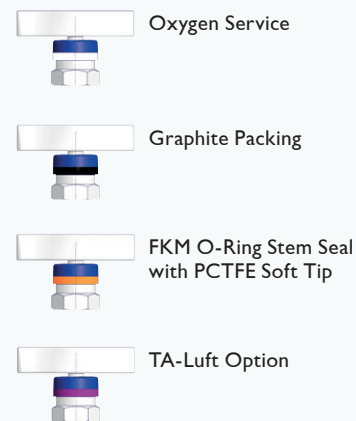
- Isolate BLUE
- Vent/Test RED
- Equalize GREEN

Color Coded Options

Following options are also color coded below dust cap:

- Oxygen Service WHITE
- Graphite Packing BLACK
- FKM O-Ring Stem Seal with PCTFE Soft Tip ORANGE
- TA-Luft Option MAGENTA

For example



1 T Handle

Operating Options are Anti-Tamper Features or a Stainless Steel Handwheel.

2 Valve Stem

Stem with Cold Rolled Threads for high strength and smooth operation.

3 Needle Seal

Standard: PTFE or Graphite Packing | Options: O-Ring

4 Bonnet

Metal to Metal Seal to Valve Body.

5 Needle

Non-rotating Needle for smooth operation and minimum wear of sealing elements.

6 Back Seat

Metal to Metal Secondary Needle Seal and therefore the Needle is anti-blowout/ non-removable – for your safety.

7 Needle Tip

Choices of Needle Tip Materials such as Stellite, and Soft Tips like PCTFE and POM.

8 Lock Pin

Eliminates unauthorized Removal of the Bonnet Assembly.

9 Valve Seat

Metal Seated (integral type) and Soft Seated. See Catalogue AS-4302.

Traceability of Materials: All AS-Schneider E Series Valves and Manifolds have materia traceability. A unique code is stamped on all valve bodies linking them with their material and chemical analysis certificates.

TAURUS SERIES

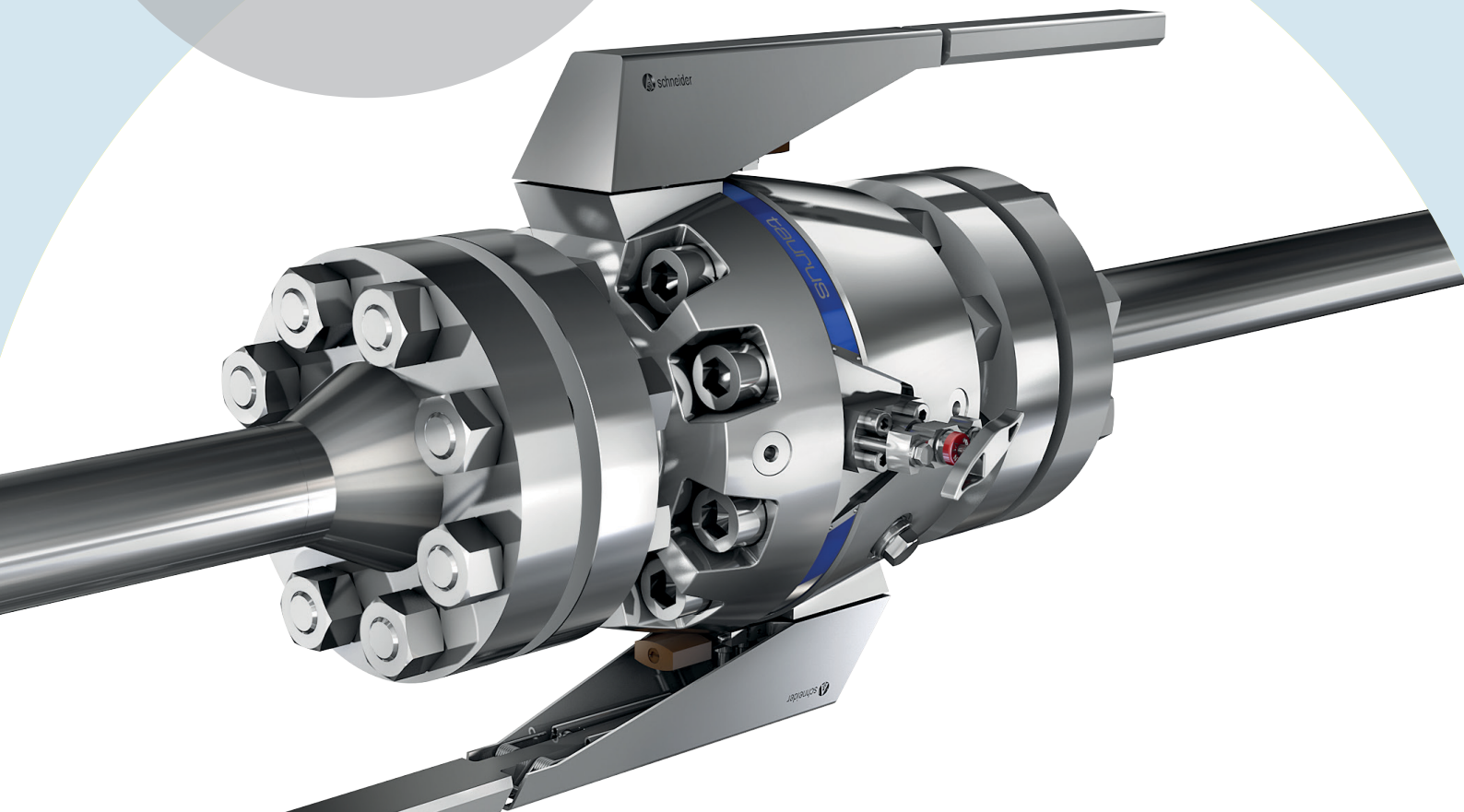
DOUBLE BLOCK & BLEED PIPELINE BALL VALVES

BENEFITS

- COMPACT ASSEMBLY
- REDUCED WEIGHT
- REDUCED LEAK PATHS
- REDUCED INSTALLATION & MAINTENANCE COSTS
- SIGNIFICANT SPACE SAVINGS

FEATURES

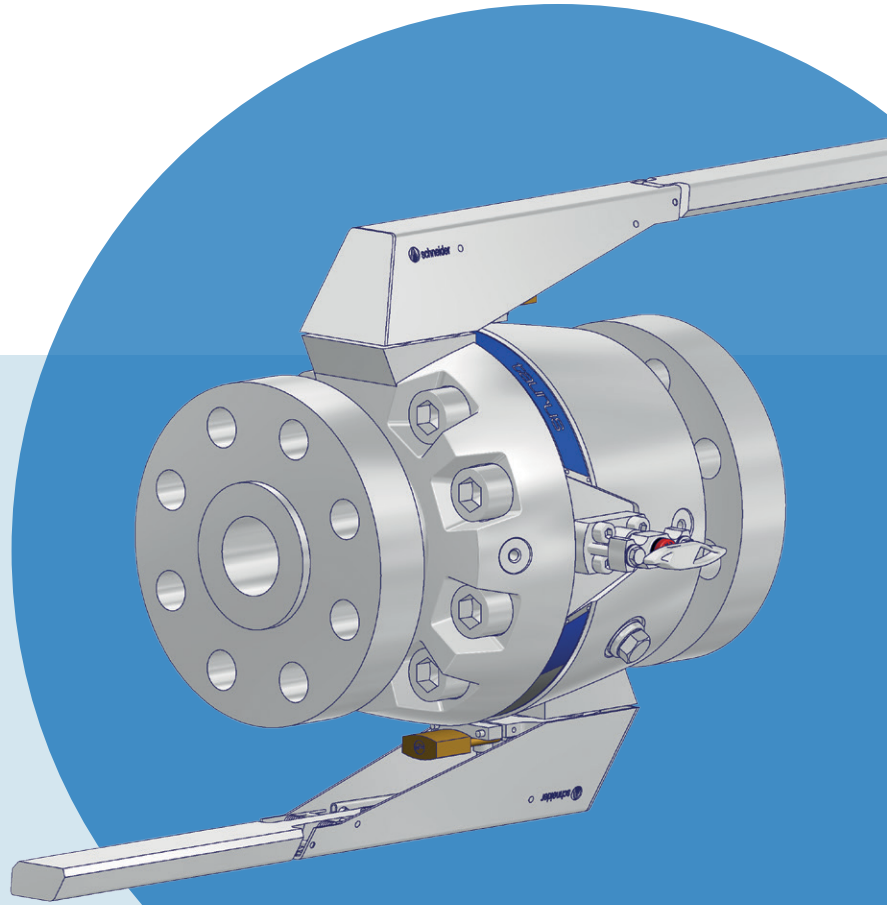
- Designed in accordance with Industry Standards i.e. ASME B16.34, ASME B31.3, ASME B16.5, API 6D
- Full Bore or Reduced Bore
- Standard Materials of Construction are forged Carbon Steel LF2, Stainless Steel 316 and Duplex
- Pressure Class: 150 to 2,500
- Fire Safe in accordance to API 607 and ISO 10497
- Compliant to NACE MR0175 and ISO 15156
- Factory tested as a complete unit in accordance with ANSI B16.34, API 6D/ISO 14313, ISO 5208
- Manufactured in accordance with the Pressure Equipment Directive and the ATEX Directive
- Ball Seat Material Options: PTFE, Devlon, PEEK and Metal seated
- Stem Seal Material: FKM and HNBR - RGD resistant (Rapid Gas Decompression), Graphite
- Anti-Blowout Stem Design
- Anti-Static Design



Basically we offer 2 different designs:
2 Piece Design and 3 Piece Design,
Both Flanged Style and Side Entry.

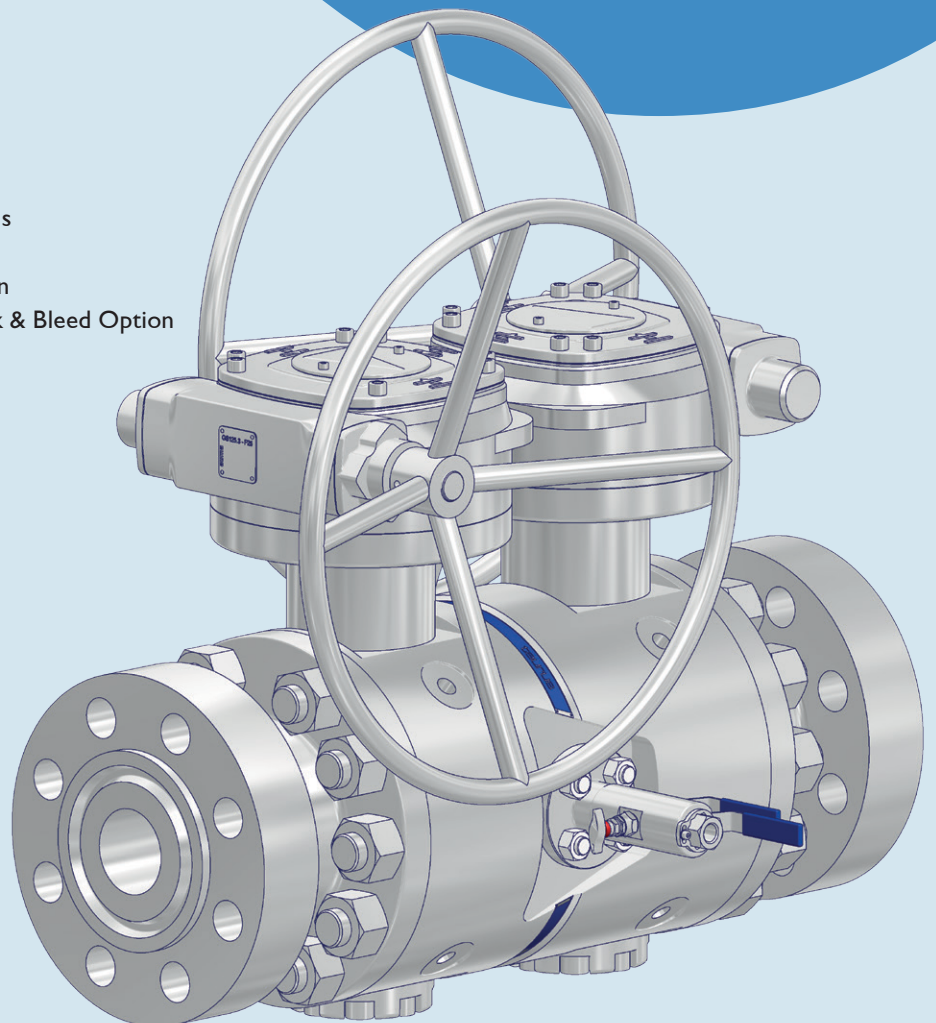
2 PIECE DESIGN – FLANGED STYLE

- Bore Size 1" through 2"
- Acc. to ASME B16.10 Standard Length:
 - Floating Ball Design Class 600, 900 & 1,500
 - Trunnion Ball Design Class 900, 1,500 & 2,500
- Non Standard Length for Class 150 & 300
- Flanged Connections acc. to ASME B16.5
- Floating Ball Design and Trunnion Ball Design
- Vent: Integral Needle Valve
- Lockable Handle/Lever – removable,
Gear Box Operation available
- Forged Body



3 PIECE DESIGN – FLANGED STYLE

- Bore Size 1" through 6"
- Non Standard Length face to face dimensions
- Flanged Connections acc. to ASME B16.5
- Floating Ball Design and Trunnion Ball Design
- Vent: Integral Needle Valve or Double Block & Bleed Option
by VariAS-Block or Monoflange available
- Handle lockable and removable,
Gear Box Operation Standard
- Forged Body





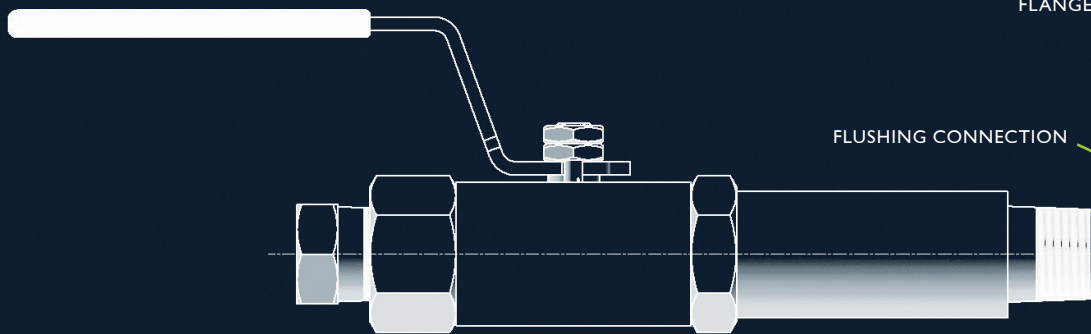
FLUSH RINGS

MEET **HIGH** SAFETY STANDARDS AND ENVIRONMENTAL PROTECTION

Flush Rings of AS-Schneider help in properly disposing of any gas or liquid residues during the maintenance and repair of measuring assemblies and accordingly to prevent clogging of the instrument connection.



Flush Rings Type S
Wafer Style



FLANGE

FLUSHING CONNECTION

FLANGE GASKET

DIAPHRAGM



Dual Flange Style Type D

Features:

- 1 or 2 vent/flushing connections
- Adapting of nominal pipe size (NPS)
- Allows disassembly of diaphragm seal without removing the flush ring



Flush Ring Type G

Flange connection with threaded blind holes on each side. Enabling the use of short bolts.

Features:

- Concentric or excentric
- 1 or 2 vent/flushing connections
- PFA lining optional
- Adapting of nominal pipe size (NPS)
- Allows disassembly of diaphragm seal without removing the flush ring

Production facilities, where, for example, oil, fuel, gas, waste water and various chemicals are stored and processed must be equipped with transmitters for a safety process monitoring. These include various parameters such as pressure, differential pressure and level. The transmitters are connected to the system via a separate impulse line. In contrast to the process lines, there is no flow here only the static pressure of the medium. Every now and again, technicians have to check, calibrate or repair a transmitter. For this to happen, it has to first be removed from the impulse line. So that no leak is created at the measuring point in such a case, all measuring devices have a primary isolation valve with a needle valve or ball valve. This valve seals the transition between the process and impulse line and prevents a leakage of the medium.

Secure empty

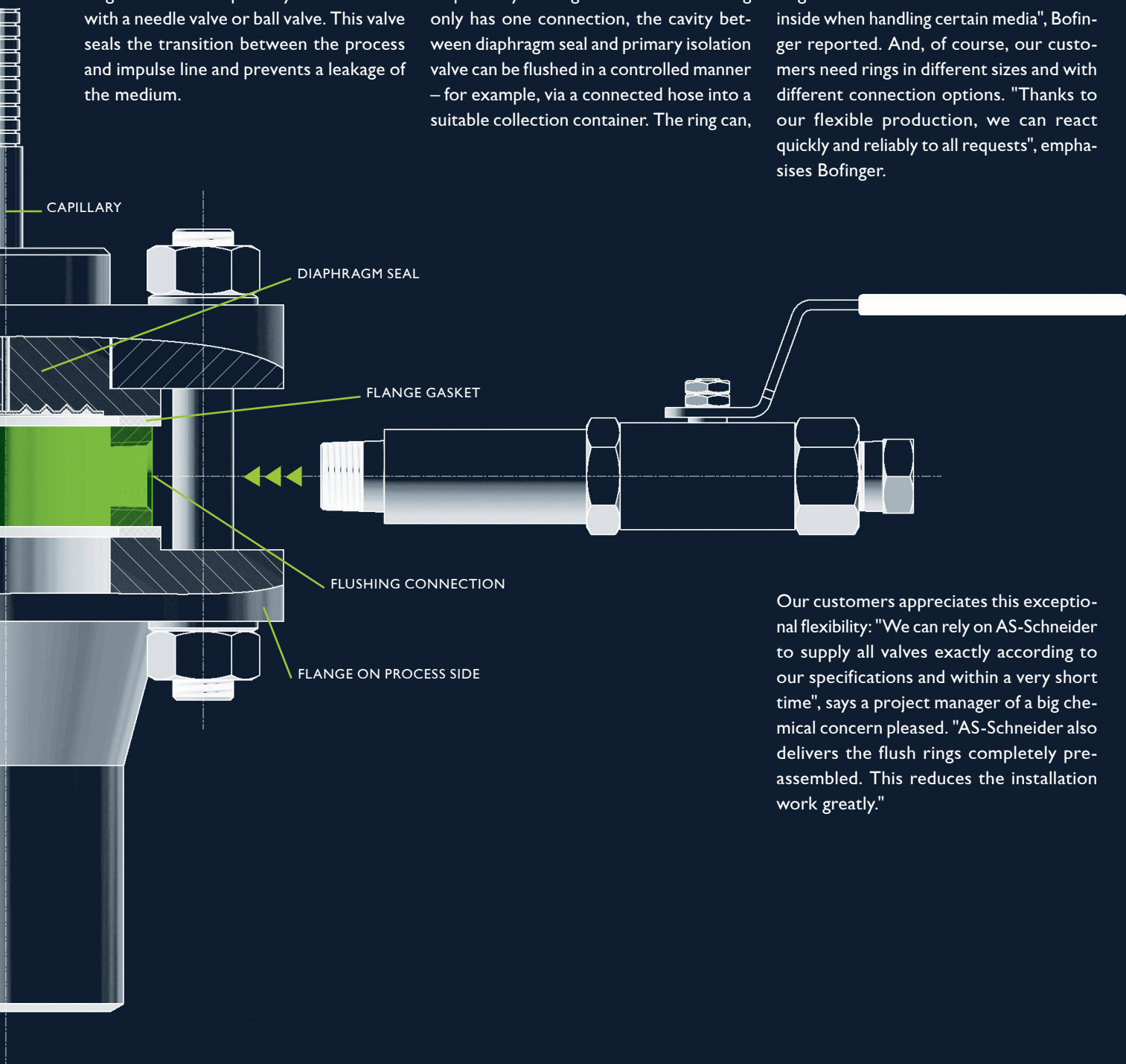
Even after closing the primary isolation valve, a residual amount of the pressurised medium remained in the pipeline section between the primary isolation valve and transmitter. In order to collect and dispose of this residue in a controlled manner and without injury to health, AS-Schneider offer a reliable method to empty the cavity between the primary isolation valve and transmitter.

The flush ring is mounted with a flange connection between the primary isolation valve and the diaphragm seal. The flush ring is provided with either one or two vent respectively flushing connections. If the ring only has one connection, the cavity between diaphragm seal and primary isolation valve can be flushed in a controlled manner – for example, via a connected hose into a suitable collection container. The ring can,

for example, be filled with compressed air or a detergent via the second connection and flushed out depending on requirements which the corresponding medium places on the system operator.

The best product for each plant

"We are producing the flush rings exactly according to customer requirements", Björn Bofinger, key account manager at AS-Schneider explained. "This can vary greatly, depending on which type of plant the rings are used in." AS-Schneider supplies the flush rings in different materials: Carbon and Stainless Steel, but also Exotic Alloys for specific applications. "The flush rings must also be lined with Teflon on the inside when handling certain media", Bofinger reported. And, of course, our customers need rings in different sizes and with different connection options. "Thanks to our flexible production, we can react quickly and reliably to all requests", emphasises Bofinger.



Our customers appreciate this exceptional flexibility: "We can rely on AS-Schneider to supply all valves exactly according to our specifications and within a very short time", says a project manager of a big chemical concern pleased. "AS-Schneider also delivers the flush rings completely pre-assembled. This reduces the installation work greatly."

GAS

SCHNEIDER
DIRECTMOUNT
SYSTEMS FOR
NATURAL

NATURAL GAS MEASUREMENT – BEST PRACTICES

FIELD RESEARCH AND TESTING conducted by Southwest Research in San Antonio, Texas and the Pipeline Gas Compressor Research Council (PCRC) confirmed that pulsation created by compressors, flow control valves, regulators and some piping configurations may create undesirable levels of Square Root Error (SRE) and/or resulting Gauge Line Error (GLE). Pulsation at the orifice meter is a major source of lost and unaccounted for natural gas. These errors create either large economic gains or losses for the buyer and seller along a natural gas pipeline system.

CONCLUSIONS DETERMINED that Transmitters or Electronic Flow Measurement (EFM) devices should be:

- Close coupled to the orifice taps (within 18 inches – „Rule of Thumb“)
- Use equal length, large orifice (0.375 inch I.D. or greater), constant diameter gauge lines
- Use Multi-Turn Valves to protect electronics from pressure spikes

MINIMIZE GAUGE LINE ERROR (GLE):

Schneider DirectMount Systems (SDMS) are designed for a safe, efficient method of close coupling EFM's and transmitters to the orifice fitting, eliminating or reducing the effects of Gauge Line Error.

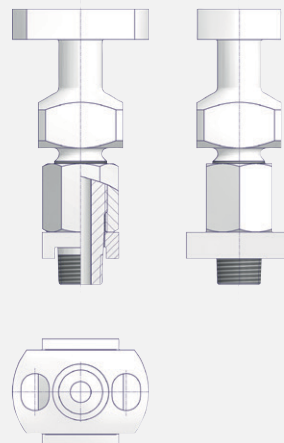
SDMS ARE EASY TO INSTALL and available in both Vertical and Horizontal to Vertical Installations.

- SDMS reduces installation cost – no need to manufacture and install tube runs, fittings, and expensive pipe stands
- Reduces potential leak points associated with NPT connections
- Provides a safe compact leak free measurement installation
- Internal porting promotes self draining of condensates and liquids to reduce freezing issues

STABILIZED CONNECTOR PROVIDES FOR MORE SECURITY

At the heart of the Schneider DirectMount Systems is the patent pending, Stabilized Connector. This may be manufactured from Carbon Steel, Stainless Austenitic Steel or Nickel-based Alloys depending on requirements.

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, explains Markus Häffner, Head of Design & Development on AS-Schneider: „Normally, the connector is only screwed into the orifice with a conical thread. 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 AS-Schneider Stabilized Connector, this risk has been minimized. The system therefore is much more secure.



Patent pending: The robust design of the stabilized connector ensures high stability and makes the Schneider DirectMount Systems insensitive to vibrations.

LATEST TECHNOLOGY – PATENT PENDING!

FEATURES AND BENEFITS

1 NEW STEM DESIGN

Reduced operating torque. Minimized gap between stem and stem nut for additional stem thread protection.

2 COST SAVINGS

Extended seal and packing life.

3 REDUCES FREEZING ISSUES

Flow paths machined to self drain condensates and liquid accumulation.

4 PROTECTION AND CONVENIENCE

6 1/2 turns to full open & close isolation valves. Protects electronics from pressure spikes.

5 CATHODIC PROTECTION

Dielectric isolators protect expensive electronics.

6 COMFORTABLE EASY TURN

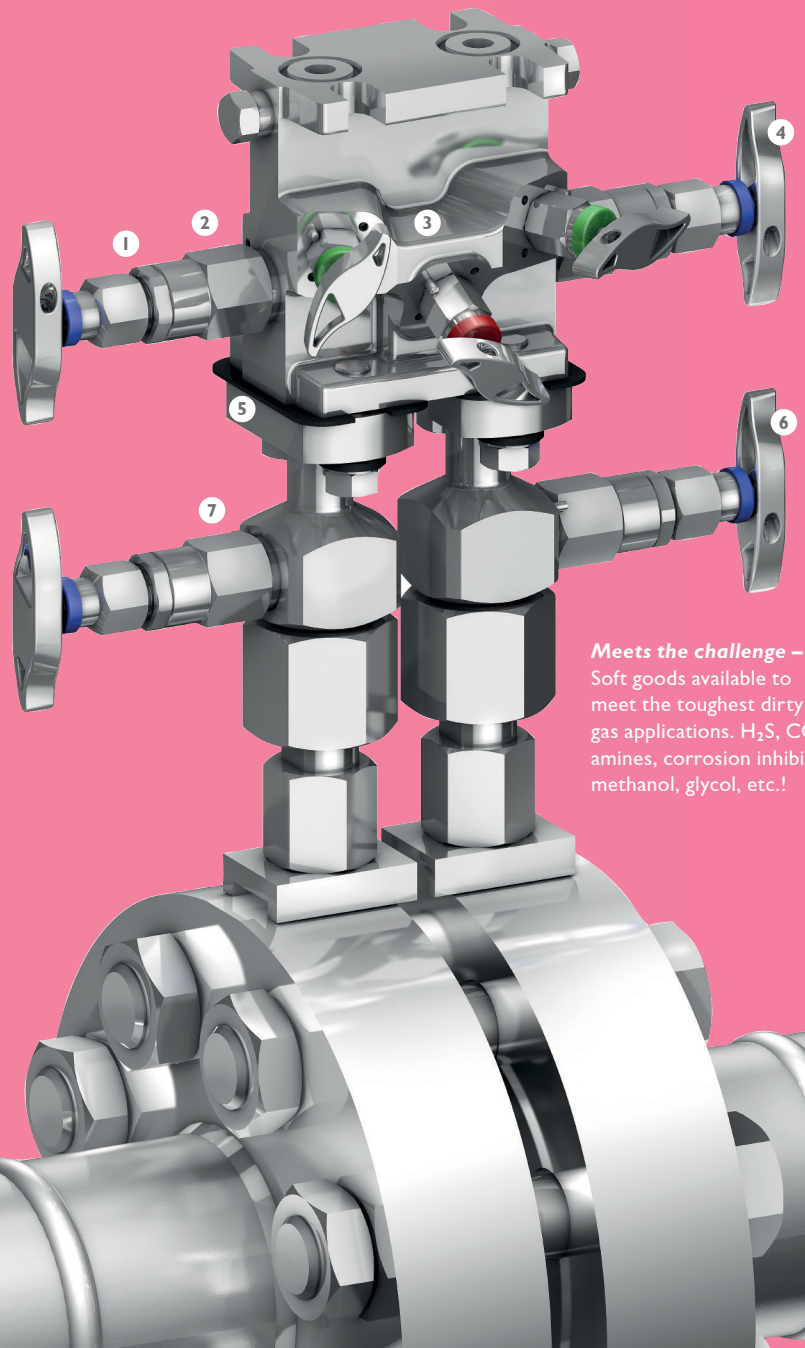
Ergonomic handle design.

7 SAFETY

Ships assembled & pressure tested.
No seat and bonnet field assembly required.

FINALLY

Bug plug standard in 5 valve manifold vent port (not shown).



Meets the challenge –
Soft goods available to meet the toughest dirty gas applications. H₂S, CO₂, amines, corrosion inhibitors, methanol, glycol, etc.!



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