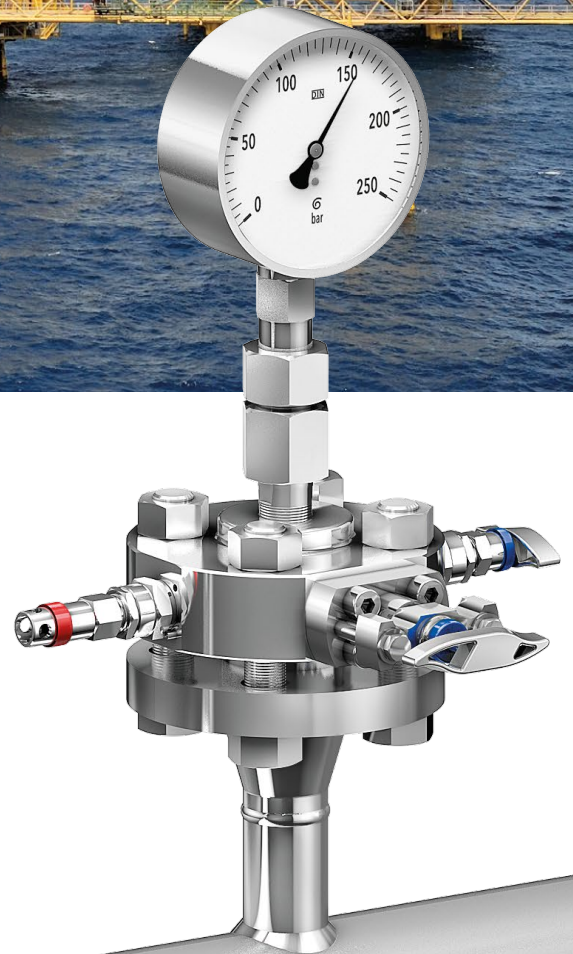


Standard and Double Block & Bleed Valves

Process to Instrument Style



Introduction

The AS-Schneider Group with its headquarters in Germany is one of the World's Leading Manufacturers of Valves and Manifolds for Instrumentation and Piping Applications.

The AS-Schneider Process to Instrument Valves are designed to overcome the problems of traditional assemblies on primary isolation duties. By combining piping and instrument valves in a single assembly, they provide weight and space savings, along with other benefits including reduced potential leak points and safer hook-up. This more compact and efficient arrangement reduces not only pipework vibration and associated stress but also installation and maintenance costs.

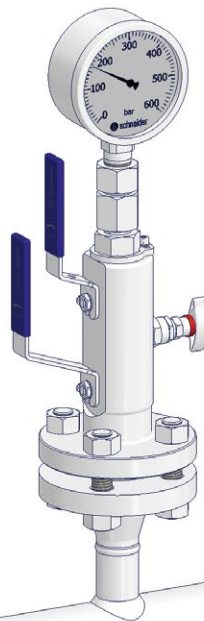
Selection can be made from a comprehensive range of bodies with a variety of connections and material options, optimising installation and access opportunities. Many of the valves shown in this catalogue are available within a short period of time. The dimensions shown in this catalogue apply to standard types. If you need the dimensions for your individual type please contact the factory.

Continuous product development may from time to time necessitate changes in the details contained in this catalogue. AS-Schneider reserves the right to make such changes at their discretion and without prior notice.

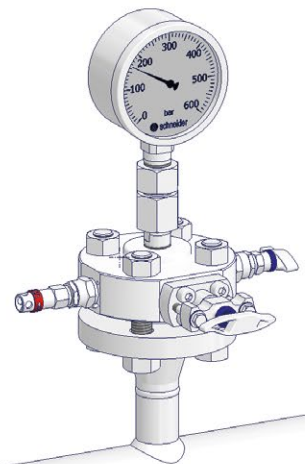
All dimensions shown in this catalogue are approximate and subject to change.



Conventional Solution



VariAS-Block



Monoflange

| | | |
|----------------------|---|------------|
| | Introduction | page 2 |
| | Contents | page 3 |
| Monoflanges | Product Description & General Features | page 4-5 |
| | Valve Head Units | page 6-9 |
| | Options | page 10-11 |
| | Assemblies | page 12 |
| | Weights and Dimensions | page 13-14 |
| | Ordering Information | page 15 |
| VariAS-Blocks | Product Description & General Features | page 16-17 |
| | Standard Valve Designs and Options – Bore Size 10 mm (0.39") | page 18-19 |
| | Standard Valve Designs and Options – Bore Size 14 mm (0.55") and 20 mm (0.79") and Standard Needle Valve | page 20-21 |
| | Fugitive Emission Application Designs | page 22-23 |
| | Options | page 24 |
| | Injection and Sampling Applications | page 25 |
| | Weights and Dimensions | page 26-27 |
| | Pressure Ratings, Codes and Specifications | page 28 |
| | API 6A — 10k/15k VariAS-Blocks | page 29 |
| | DVT (TAT) — VariAS-Blocks MESC SPE 77/300 | page 30 |
| | Ordering Information | page 31 |
| | Accessories for Monoflanges and VariAS-Blocks | page 32 |
| | DB&B Piping Ball Valves – Taurus Series | page 33 |
| | Technical Service Portal - Digital Valve Plate | page 34 |
| | Notes | page 35 |

Monoflanges

Monoflanges

AS-Schneider Monoflanges are designed to replace conventional multiple-valve installations currently in use for interface with pressure measuring systems. By combining customer specified valves into a single manifold, the number of leak paths is considerably reduced and the mass of the system is lowered reducing the stresses from loading and vibration. The AS-Schneider Monoflange Series are available as Process Monoflanges and Instrument Monoflanges.

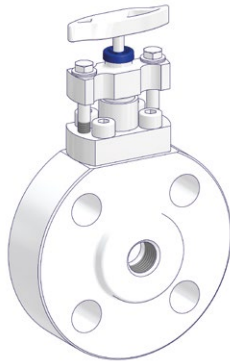
Process Monoflanges

Process Monoflanges are designed to replace the traditional primary isolation valve and are close coupled to the process piping flange, for connecting process to instruments. The primary isolation valve needs to be of process design, therefore it's a valve with OS&Y Bolted Bonnet. The secondary isolation valve and the bleed valve are provided with screwed bonnets. The combining of piping and instrument valves into a single unit has benefitted various markets.

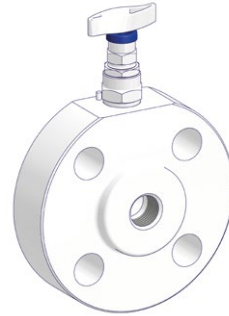
Instrument Monoflanges

Instrument Monoflanges are close coupled to a pre-installed primary isolation valve to provide a compact Instrument Double Block & Bleed Valve or are used when primary isolation valves with an OS&Y Bolted Bonnet are not required. The needle valves of the Instrument Monoflanges are provided with a screwed bonnet.

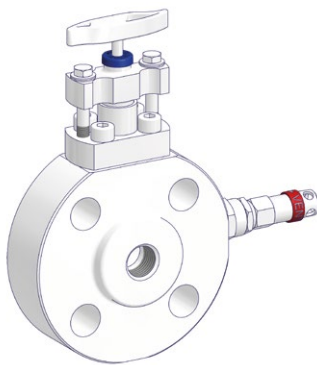
Block
1st Isolate: OS&Y



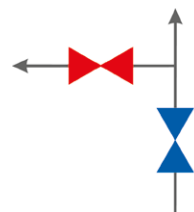
Block
1st Isolate: Needle



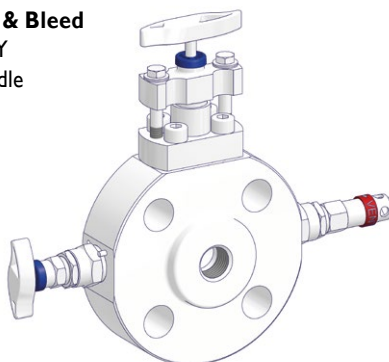
Block & Bleed
1st Isolate: OS&Y
Vent: Needle



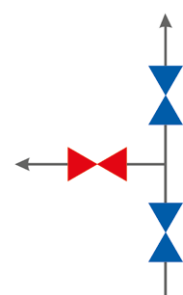
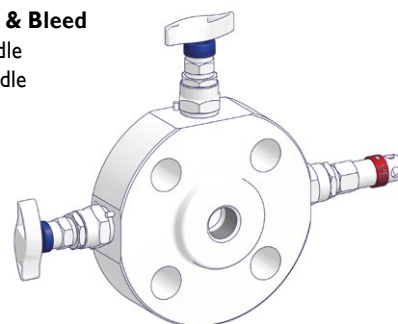
Block & Bleed
1st Isolate: Needle
Vent: Needle



Double Block & Bleed
1st Isolate: OS&Y
2nd Isolate: Needle
Vent: Needle



Double Block & Bleed
1st Isolate: Needle
2nd Isolate: Needle
Vent: Needle



Body Material Options

| Material Group | AS Material Designation | Material No. | Short Name | Equivalent UNS-No. | Material Grade acc. to ASTM | Monoflanges |
|-------------------------------------|--------------------------|--------------|---------------------|--------------------|-----------------------------|-------------|
| Carbon Steel | A105 | | | | A105 | Optional |
| | LF2 | | | | LF2 | Optional |
| Austenitic Stainless Steel | 316 quadruple certified* | 1.4401 | X5CrNiMo17-12-2 | S31600 | 316 | Standard |
| | | 1.4404 | X2CrNiMo17-12-2 | S31603 | 316L | Standard |
| | 6Mo | 1.4547 | X 1CrNiMoCuN20-18-7 | S31254 | | Standard |
| Austenitic-Ferritic Stainless Steel | Duplex | 1.4462 | X2CrNiMoN22-5-3 | S31803 | F51 | Standard |
| | Superduplex | 1.4410 | X2CrNiMoN25.7.4 | S32750 | F53 | Standard |
| | | 1.4501 | X2CrNiMoCuWN25.7.4 | S32760 | F55 | Optional |
| Nickel Based Alloys | Alloy 400 | 2.4360 | NiCu30Fe | N04400 | | Standard |
| | Alloy C-276 | 2.4819 | NiMo 16 Cr 15 W | N10276 | | Standard |
| | Alloy 625 | 2.4856 | NiCr22Mo9Nb | N06625 | | Standard |
| | Alloy 825 | 2.4858 | NiCr21Mo | N08825 | | Optional |

* Quadruple certified means 316 / 316L / 1.4401 / 1.4404

Standard Features

- Bore Size 5 mm (0.197")
- ASME B16.5 Flange Connections
 - Flange Size 1/2" to 3" (DN15 to DN80)
 - Flange Class 150 to 2,500
- Outlet Connection 1/2 NPT Female
- Vent Connection 1/4 NPT Female
- Vent Valve with Anti-Tamper Head Unit incl. AT-Key. Anti-Tamper Head Unit Options see Page 9.
- Monoflanges with OS&Y Bolted Bonnet and Graphite Packing are Fire Safe Tested and Certified according to ISO 10497. See also Page 7.

Needle Seal:

PTFE and Graphite Packings are available for all valve types.

Sour Gas Service:

Wetted parts according to a.m. material list are supplied as standard according to NACE MR0175/MR0103 and ISO 15156 / ISO 17945 (latest issue).

Pressure Test:

A shell test and a seat leakage test are performed at 1.5 times the max. allowable (Working) Pressure (PS) acc. to EN 12266-1 – P10, P11 and P12 respectively MSS-SP61 (and complies also with ASME B31.1 and B31.3) at every standard AS-Schneider Monoflange → 100% Pressure Tested!

Certification:

Certified Mill Test Report (CMTR) as inspection certificate 3.1 acc. to EN 10 204 for valve body material and pressure test available on request.

The manifolds can be provided by default with a

- CRN Certificate
- EAC Certificate – Manifolds are marked with EAC

Optional Features

- Bore Size 10 mm (0.39") – See Page 10
- API Flange Connections (up to 689 bar [10,000 psi])
- EN 1092-1 Flange Connections
- Needle Seal with FKM O-Ring and Bellows Sealed Head Units
- Choices of Needle Tip Materials such as Stellite and Soft Tips
- Swivel Gauge Connections – Integral Type and as Accessory, see also Page 26
- Pressure Tested according to API 598
- Hydrogen Service

Fugitive Emission Application:

For Fugitive Emission Applications AS-Schneider is providing ISO 15848 and TA-Luft 2021.

For more details see Page 8.

Oxygen Service:

AS-Schneider offers an option with Reinforced PTFE Packing cleaned and lubricated for Oxygen Service:

Pressure-Temperature Rating:

Max. 420 bar (6,092 psi) @ 60°C (140°F)

Max. 200°C (392°F) @ 90 bar (1,305 psi)

Not every Valve Type is available for Oxygen and Hydrogen Service!

If you don't find your options in this catalogue, please contact the factory.

Standard Valve Head Units

Standard Needle Valves

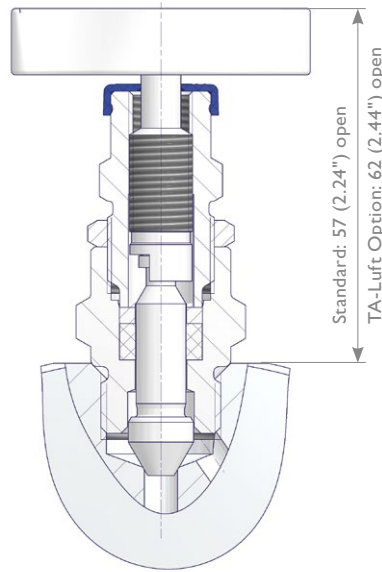
Screwed Bonnet – Needle Seal: Packing

Features

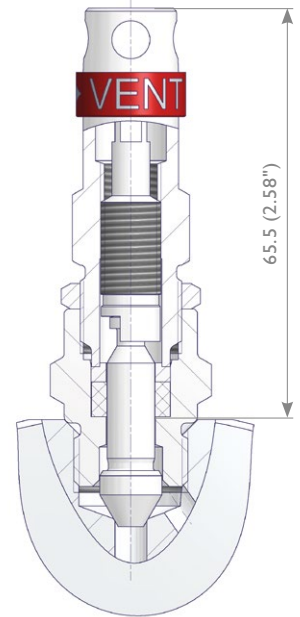
- Integral Valve Seat – Metal to metal seated
- Non-rotating Needle
- External Stem Thread – Packing below stem threads. Stem threads are protected from process media (non-wetted).
- Stem with Cold Rolled Threads
- Blow-out Proof Needle
- Back Seat – Metal to metal secondary needle seal
- Lock Pin – Eliminates unauthorized removal of the bonnet
- Color Coded Dust Cap for operating thread protection
- Needle Seal: Standard Packing in PTFE and Graphite
- Max. allowable (Working) Pressure (PS) acc. to ASME B16.34 Class 2500 – 689 bar (10,000 psi) optional
- Anti-Tamper Valve Head Options available
- All Non-wetted Parts in 316 Stainless Steel
- ISO 15848-1 Tightness Class B approved
 - Graphite -29°C up to +40°C
 - PTFE -29°C up to +82°C

For higher performance Valves see page 8

Standard Isolate Valve



Standard Vent Valve



Color Coded Dust Cap

For stem thread protection:

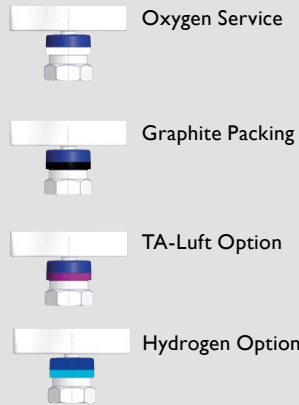
- Isolate BLUE
- Vent/Test RED
- Equalize GREEN

Color Coded Options

Following options are also color coded below dust cap:

- Oxygen Service WHITE
- Graphite Packing BLACK
- TA-Luft Option MAGENTA
- Hydrogen LIGHT BLUE

For example



| Components | Carbon Steel | Stainless Steel | Exotic Alloys | | | | | | |
|------------------|-------------------------|-----------------|-------------------|-------------|--------|------------------------|-----------|-----|--|
| | Material / Material No. | | | | | | | | |
| Body | A 105 resp. LF2 | | | | | | | | |
| Bonnet | | 316 / 316L | Alloy 400 | Alloy C-276 | Duplex | Superduplex UNS S32750 | Alloy 625 | 6Mo | |
| Needle | 316 / 316L | | | | | | | | |
| Pipe Plug | | | | | | | | | |
| Valve Stem | | | 316 / 316L | | | | | | |
| Gland | | | 316 | | | | | | |
| Packing | | | PTFE or Graphite | | | | | | |
| Stem Nut/Yoke | | | 316 | | | | | | |
| Lock Nut | | | 316 | | | | | | |
| Set Screw | | | 316 | | | | | | |
| T Handle | | | 316 | | | | | | |
| Lock Pin | | | A4 (316) | | | | | | |

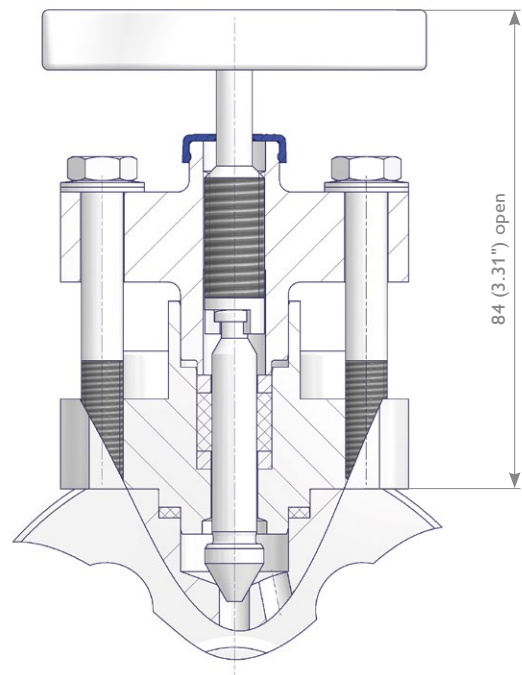
Wetted components listed in **bold**.

Needle Valves with OS&Y Bolted Bonnet

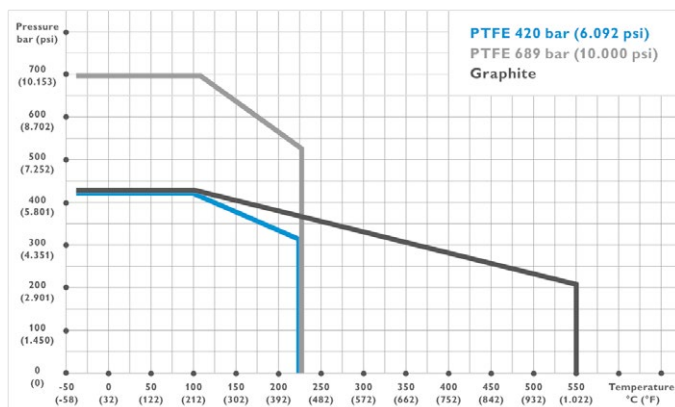
OS&Y Bolted Bonnet – Standard Packing

Features

- Integral Valve Seat – Metal to metal seated
- Non-rotating Needle
- External Stem Thread – Packing below stem threads.
Stem threads are protected from process media (non-wetted).
- Stem with Cold Rolled Threads
- Blow-out Proof Needle
- Spring Washers for compensation of thermal expansion
- Back Seat – Metal to metal secondary needle seal
- Color Coded Dust Cap for operating thread protection
- Needle Seal:
 - Standard Packing in PTFE and Graphite
- Bonnet Seal Ring: Graphite
- Fire Safe approved acc. to ISO 10497 and API 607 – Graphite Packing only
- Max. allowable (Working) Pressure (PS) acc. to ASME B16.34 Class 2500 – 689 bar (10,000 psi) optional
- Anti-Tamper Valve Head Options available
- All Non-wetted Parts in 316 Stainless Steel



Pressure-Temperature Rating



Above-mentioned Pressure-Temperature Rating is based on the standard material 316 stainless steel.

Other materials as shown on page 5 and 6 might have different Pressure-Temperature Ratings.

Manufactured according to the following Codes and Specifications

- ASME B31.3 Process Piping Specification for Pipeline Valves
- ASME B16.34 Valves – Flanged, Threaded and Welding End
- ASME B16.5 Pipe Flanges and Flanged Fittings
- NACE MR0175/ ISO 15156 / ISO 17945 (latest issue) Petroleum and Natural Gas Industries – Materials for use in H₂S-containing Environments in Oil and Gas Production
- API 598 Valve Inspection and Testing
- ISO 5208 Industrial Valves – Pressure Testing of Metallic Valves
- ISO 10497 Fire Test for Soft-Seated Quarter Turn Valves Testing of Valves. Fire Type-testing Requirements
- MSS SP-25 Standard Marking System for Valves, Fittings, Flanges, and Unions
- MSS SP-61 Pressure Testing of Valves

Valve Head Units for Fugitive Emission Applications

Needle Valves acc. to ISO 15848

Screwed Bonnet – Type 1 O-Ring Needle Seal + Graphite Packing
 Type 3 PTFE Packing
 Type 4 Graphite Packing

Features

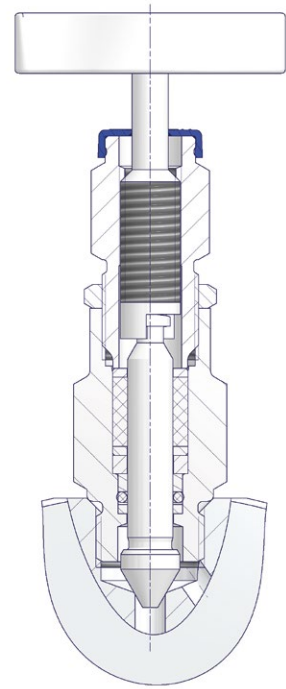
- Integral Valve Seat – Metal to metal seated
- Non-rotating Needle
- External Stem Thread – Packing below stem threads. Stem threads are protected from process media (non-wetted).
- Stem with Cold Rolled Threads
- Blow-out Proof Needle
- Back Seat – Metal to metal secondary needle seal
- Lock Pin – Eliminates unauthorized removal of the bonnet
- Color Coded Dust Cap for operating thread protection
- Needle Seal:
 Standard Packing in PTFE, Graphite, or Graphite plus FKM O-Ring - RGD resistant (RGD = Rapid Gas Decompression)
- Max. allowable (Working) Pressure (PS):
 420 bar (6,092 psi)
- Anti-Tamper Valve Head Options available
- All Non-wetted Parts in 316 Stainless Steel
- Types also comply with the requirements of TA-Luft 2021

ISO FE Performance Data

ISO FE Type 1:
 Class A 1,500 cycles / -29°C to 40°C
 (-20°F to 104°F)
 Class A 500 cycles / -29°C to 200°C
 (-20°F to 392°F)
 Class B 1,500 cycles / -29°C to 200°C
 (-20°F to 392°F)

ISO FE Type 3:
 Class B 1,500 cycles / -29°C to 200°C
 (-20°F to 392°F)

ISO FE Type 4:
 Class A 205 cycles / -50°C to 400°C
 (-58°F to 752°F)



Picture shows ISO FE Type 1

OS&Y Needle Valves acc. to ISO 15848

OS&Y Bolted Bonnet – Type 1 O-Ring Needle Seal + Graphite Packing
 Type 3 PTFE Packing
 Type 4 Graphite Packing

Features

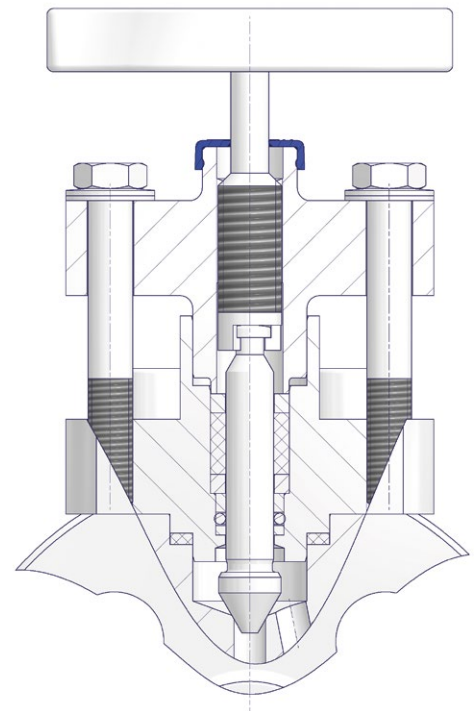
- Integral Valve Seat – Metal to metal seated
- Non-rotating Needle
- External Stem Thread – Packing below stem threads. Stem threads are protected from process media (non-wetted).
- Stem with Cold Rolled Threads
- Blow-out Proof Needle
- Spring Washers for compensation of thermal expansion
- Back Seat – Metal to metal secondary stem seal
- Colour Coded Dust Cap for operating thread protection
- Needle Seal:
 Standard Packing in PTFE, Graphite, or Graphite plus FKM O-Ring - RGD resistant
- Bonnet Seal Ring: Graphite
- Fire Safe approved acc. to ISO 10497 and API 607 – Graphite Packing only
- Max. allowable (Working) Pressure (PS):
 420 bar (6,092 psi)
- Anti-Tamper Valve Head Options available
- All Non-wetted Parts in 316 Stainless Steel
- Types also comply with the requirements of TA-Luft 2021

ISO FE Performance Data

Class A 2,500 cycles / -29°C to 40°C
 (-20°F to 104°F)
 Class A 500 cycles / -29°C to 200°C
 (-20°F to 392°F)
 Class B 2,500 cycles / -29°C to 200°C
 (-20°F to 392°F)

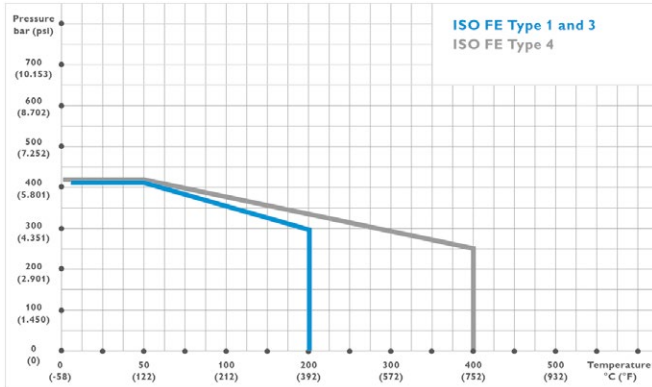
ISO FE Type 3:
 Class B 2,500 cycles / -29°C to 200°C
 (-20°F to 392°F)

ISO FE Type 4:
 Class A 205 cycles / -50°C to 400°C
 (-58°F to 752°F)



Picture shows ISO FE Type 1

Pressure-Temperature Rating – Needle Valve for Fugitive Emission Applications



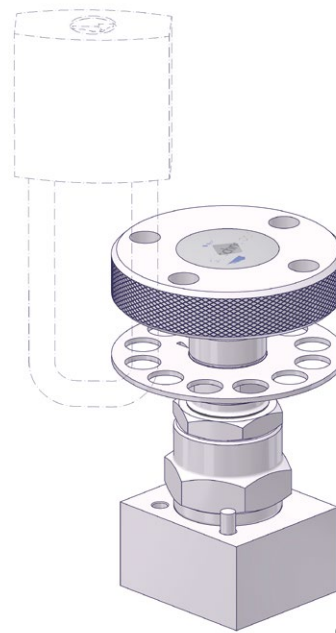
Above-mentioned Pressure-Temperature Rating is based on the standard material 316 stainless steel.

Other materials as shown on page 5 and 6 might have different Pressure-Temperature Ratings.

Stainless Steel Handwheel and 'Locking Plate' Design

The valves can be ordered with Stainless Steel Handwheel and Locking Plate Design, also including Padlock.

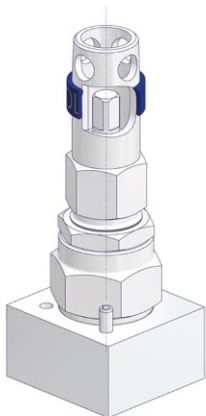
This design allows minimum handle movements and is ideal as protection against unauthorized closing of the valve. Against unauthorized opening of the valve, please choose anti-tamper head unit.



Option Code Q
Option Code R incl. Padlock

Anti-Tamper Head Unit

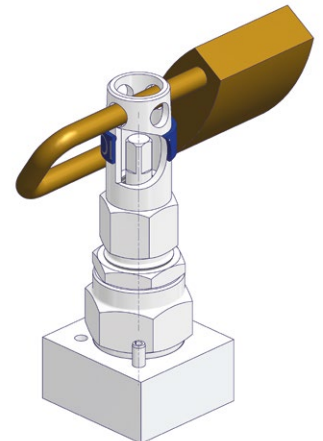
The valves are operated with a special Anti-Tamper Key (AT-Key), which fits exactly in the key guide. The valve can therefore only be operated with the AT-Key. In addition to this safety function, installing a padlock prevents the AT-Key being inserted into the key guide. Operating the valve is therefore no longer possible which protects your equipment against unauthorized opening and closing of the valve head units. The valve can be locked reliably in every position required. With the Interlocking System, the correct sequence of opening and closing of specific valves is ensured.



All Valve Head Units Anti-Tamper:
Option Code V



Part Number ATK-ES



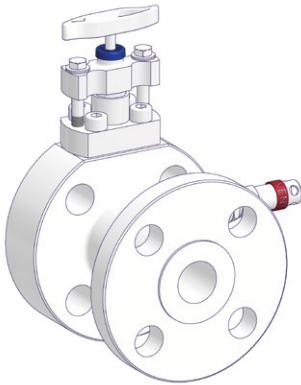
Incl. Padlock:
Option Code W or Y

Monoflanges I Options

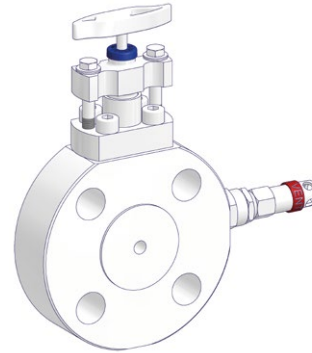
Flange x Flange Types

- Dual Flange Style
- Wafer Style
- RD1 Style
- RFB Style

Dual Flange Style

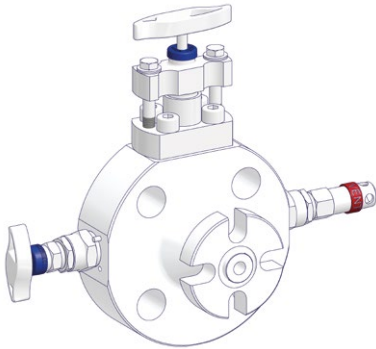


Wafer Style Option S



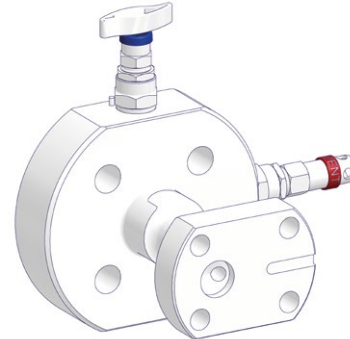
RD1 Style

For Direct Mounting of Transmitters acc. to EN 61518.



RFB Style

For Direct Mounting of Rosemount 2051/3051 Coplanar™ Pressure Transmitter.

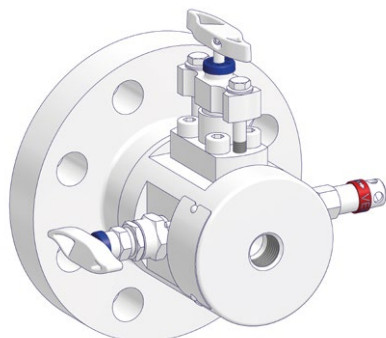


10 mm Bore Size

The max. allowable (Working) Pressure (PS) is limited to 420 bar (6,092 psi).

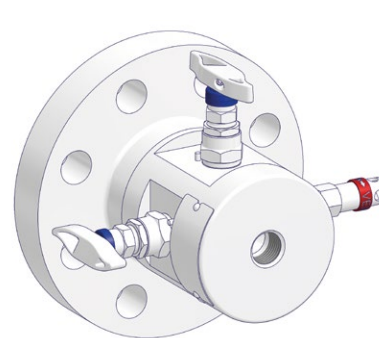
Process Monoflange

Double Block & Bleed (OS&Y / Needle / Needle)



Instrument Monoflange

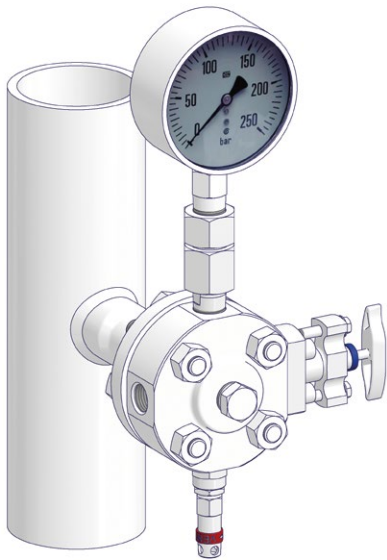
Double Block & Bleed (Needle / Needle / Needle)



Dual Outlet Types for Direct Mounting to Horizontal or Vertical Pipelines

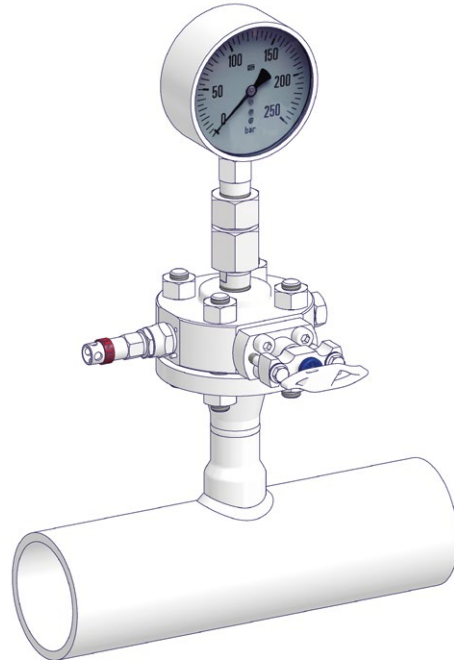
Vertical Pipeline – Radial Outlet

Process Monoflange (e.g. Block & Bleed) Swivel Gauge Adapter installed on outlet.



Horizontal Pipeline – Axial Outlet

Process Monoflange (e.g. Block & Bleed) Swivel Gauge Adapter installed on outlet.



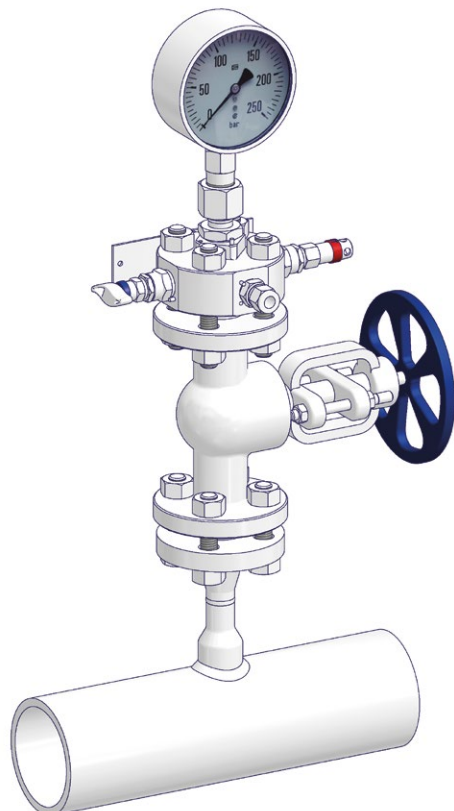
Vertical Pipeline – Radial Outlet

Instrument Monoflange (SM Type) with an Integral Swivel Gauge Adapter. For more information see Catalogue 'AS-3601 I Modular Mounting System'.



Horizontal Pipeline – Axial Outlet

Instrument Monoflange (SM Type) with an Integral Swivel Gauge Adapter. For more information see Catalogue 'AS-3601 I Modular Mounting System'.



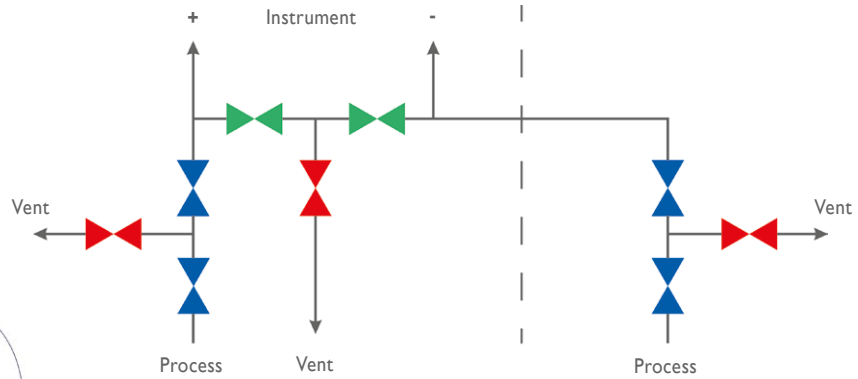
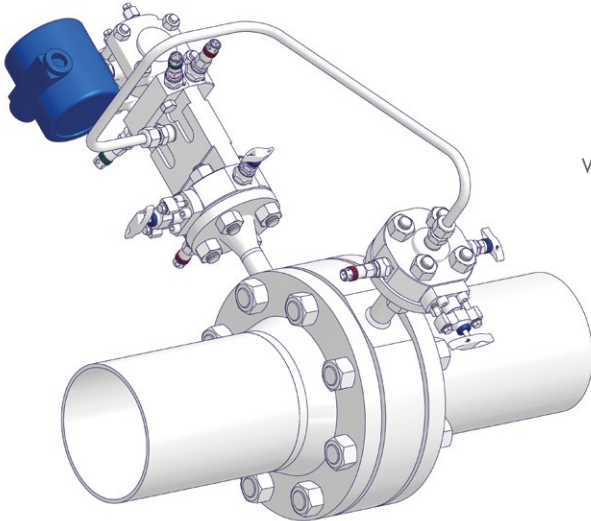
Monoflanges I Assemblies

Assemblies

There are various possibilities in using the Monoflange concept not only for Pressure Applications. The following pictures are showing two examples for Differential Pressure Assemblies – Flow and Level.

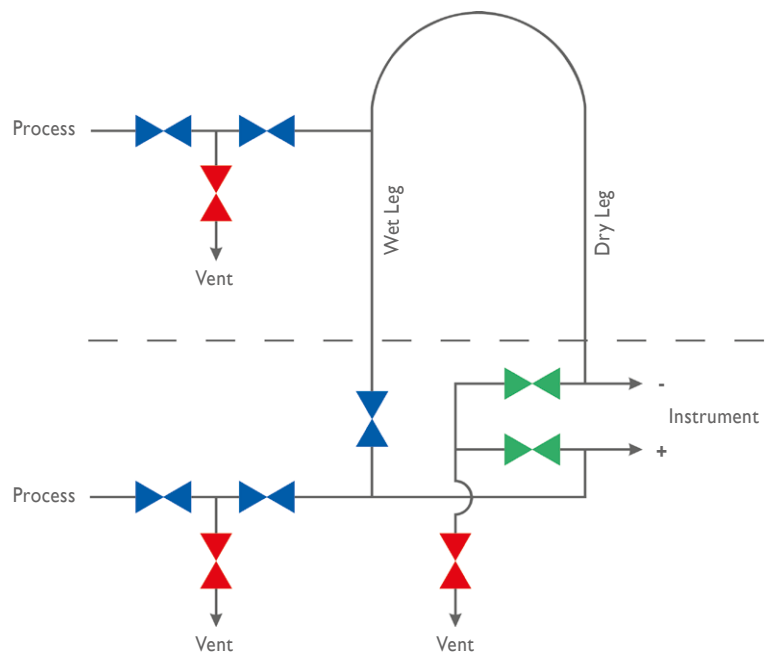
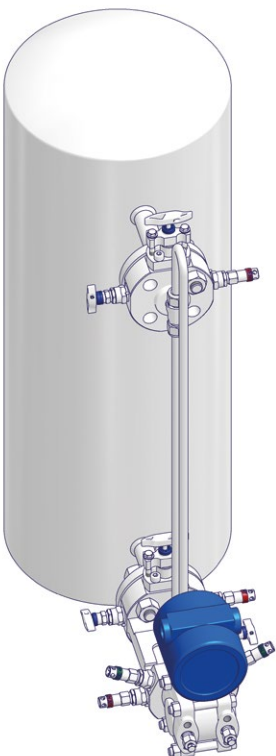
Flow Assembly – Consisting of:

- 1 x Process Monoflange Type V, e.g. DB&B with an Integrated 3 Valve Manifold (High Pressure Side +)
- 1 x Process Monoflange, e.g. DB&B (Low Pressure Side -)



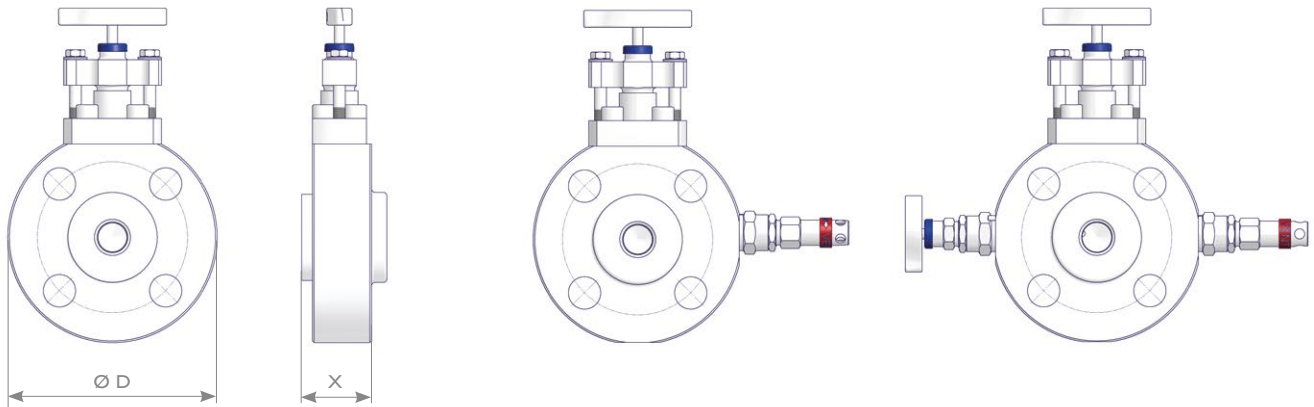
Level Assembly – Consisting of: (Wet / Dry Leg Installation)

- 1 x Process Monoflange Type V, e.g. DB&B with an Integrated 4 Valve Manifold (High Pressure Side +)
- 1 x Process Monoflange, e.g. DB&B (Low Pressure Side -)



Process Monoflanges | Weights and Dimensions

Process Monoflanges – Weights and Dimensions

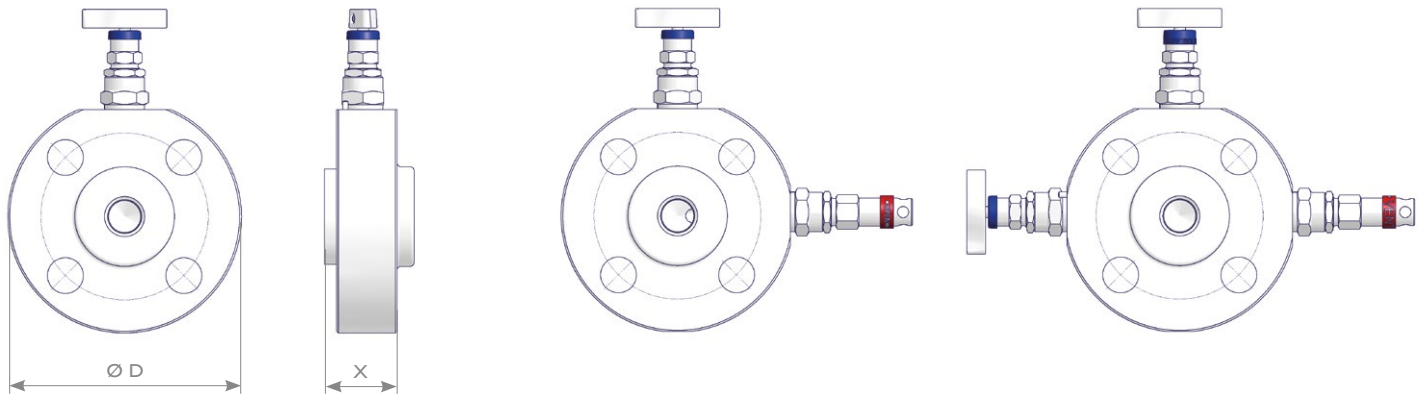


Flange x Thread

| Flange Size (in) | Flange Class | Dimensions (mm) | | | Approx. Weight (kg) |
|------------------|--------------|-----------------|---------------|------|---------------------|
| | | Ø D | X | | |
| | | | Flange Facing | | |
| | | | RF | RTJ | |
| 1/2 | 150 | 98.6 | 36.6 | – | 2.5 |
| 1/2 | 300 | 98.6 | 36.6 | 40.6 | 2.6 |
| 1/2 | 600 | 98.6 | 41.4 | 40.6 | 2.6 |
| 1/2 | 900 / 1,500 | 120.7 | 41.4 | 41.4 | 3.5 |
| 1/2 | 2,500 | 133.4 | 41.4 | 41.4 | 4.3 |
| 3/4 | 150 | 98.6 | 36.6 | – | 2.6 |
| 3/4 | 300 | 117.3 | 36.6 | 41.4 | 3.5 |
| 3/4 | 600 | 117.3 | 41.4 | 41.4 | 3.5 |
| 3/4 | 900 / 1,500 | 130.0 | 41.4 | 41.4 | 4.1 |
| 3/4 | 2,500 | 139.7 | 41.4 | 41.4 | 4.8 |
| 1 | 150 | 108.0 | 36.6 | 41.4 | 3.0 |
| 1 | 300 | 124.0 | 36.6 | 41.4 | 3.9 |
| 1 | 600 | 124.0 | 41.4 | 41.4 | 3.9 |
| 1 | 900 / 1,500 | 149.3 | 41.4 | 41.4 | 5.1 |
| 1 | 2,500 | 158.8 | 42.4 | 42.4 | 6.1 |
| 1 1/2 | 150 | 127.0 | 36.6 | 41.4 | 4.1 |
| 1 1/2 | 300 | 155.4 | 36.6 | 41.4 | 6.0 |
| 1 1/2 | 600 | 155.4 | 41.4 | 41.4 | 6.0 |
| 1 1/2 | 900 / 1,500 | 177.8 | 41.4 | 41.4 | 7.4 |
| 1 1/2 | 2,500 | 203.2 | 51.4 | 52.9 | 11.4 |
| 2 | 150 | 152.4 | 36.6 | 41.4 | 5.4 |
| 2 | 300 | 165.1 | 36.6 | 42.9 | 6.4 |
| 2 | 600 | 165.1 | 41.4 | 42.9 | 6.9 |
| 2 | 900 / 1,500 | 215.9 | 45.4 | 46.9 | 12.0 |
| 2 | 2,500 | 235.0 | 58.4 | 59.9 | 17.5 |

Instrument Monoflanges | Weights and Dimensions

Instrument Monoflanges – Weights and Dimensions



Flange x Thread

| Flange Size (in) | Flange Class | Dimensions (mm) | | | Approx. Weight (kg) |
|------------------|--------------|-----------------|-------------|-------------|---------------------|
| | | Ø D | X | | |
| | | | Flange Face | | |
| | | | RF x mm | RTJ x mm | |
| 1/2 | 150 | 88.9 | 33.6 | – | 1.6 |
| 1/2 | 300 | 95.3 | 33.6 | 37.6 | 2.0 |
| 1/2 | 600 | 95.3 | 38.4 | 37.6 | 2.0 |
| 1/2 | 900 / 1,500 | 120.7 | 38.4 | 38.4 | 2.9 |
| 1/2 | 2,500 | 133.4 | 38.4 | 38.4 | 3.7 |
| 3/4 | 150 | 98.6 | 33.6 | – | 2.0 |
| 3/4 | 300 | 117.3 | 33.6 | 38.4 | 2.9 |
| 3/4 | 600 | 117.3 | 38.4 | 38.4 | 2.9 |
| 3/4 | 900 / 1,500 | 130.0 | 38.4 | 38.4 | 3.5 |
| 3/4 | 2,500 | 139.7 | 39.4 | 39.4 | 4.2 |
| 1 | 150 | 108.0 | 33.6 | 38.4 | 2.6 |
| 1 | 300 | 124.0 | 33.6 | 38.4 | 3.3 |
| 1 | 600 | 124.0 | 38.4 | 38.4 | 3.3 |
| 1 | 900 / 1,500 | 149.3 | 38.4 | 38.4 | 6.8 |
| 1 | 2,500 | 158.8 | 42.4 | 42.4 | 5.7 |
| 1 1/2 | 150 | 127.0 | 33.6 | 38.4 | 3.8 |
| 1 1/2 | 300 | 155.4 | 33.6 | 38.4 | 5.3 |
| 1 1/2 | 600 | 155.4 | 38.4 | 38.4 | 5.3 |
| 1 1/2 | 900 / 1,500 | 177.8 | 39.4 | 39.4 | 6.8 |
| 1 1/2 | 2,500 | 203.2 | 51.4 | 52.9 | 11.5 |
| 2 | 150 | 152.4 | 33.6 | 38.4 | 5.1 |
| 2 | 300 | 165.1 | 33.6 | 39.9 | 5.7 |
| 2 | 600 | 165.1 | 38.4 | 39.9 | 6.2 |
| 2 | 900 / 1,500 | 215.9 | 45.4 | 46.9 | 11.6 |
| 2 | 2,500 | 235.0 | 58.4 | 59.9 | 17.0 |

Monoflanges | Ordering Information

Ordering Information

| | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
|---|--|-------------|--|----|--|---------------------------------|---|---|---|---|---|---|----|----|----|----|----|
| | | | | M | G | B | - | N | F | E | L | N | 4 | - | S | C | |
| Monoflanges | | | | | | | | | | | | | | | | | |
| Outlet Connection | | | | | | | | | | | | | | | | | |
| Axial | Radial | Dual | Type | | | | | | | | | | | | | | |
| MA | MB | MC | Block (OS&Y) | | | | | | | | | | | | | | |
| MD | ME | MF | Block & Bleed (OS&Y / Needle) | | | | | | | | | | | | | | |
| MG | MH | MJ | Double Block & Bleed (OS&Y / Needle / Needle) | | | | | | | | | | | | | | |
| MK | ML | MM | Block (Needle) | | | | | | | | | | | | | | |
| MN | MP | MQ | Block & Bleed (Needle / Needle) | | | | | | | | | | | | | | |
| MR | MS | MT | Double Block & Bleed (Needle / Needle / Needle) | | | | | | | | | | | | | | |
| M1 | | | 10 mm Bore I Block (OS&Y) | | | | | | | | | | | | | | |
| M2 | | | 10 mm Bore I Block & Bleed (OS&Y / Needle) | | | | | | | | | | | | | | |
| M3 | | | 10 mm Bore I Double Block & Bleed (OS&Y / Needle / Needle) | | | | | | | | | | | | | | |
| M4 | | | 10 mm Bore I Block (Needle) | | | | | | | | | | | | | | |
| M5 | | | 10 mm Bore I Block & Bleed (Needle / Needle) | | | | | | | | | | | | | | |
| M6 | | | 10 mm Bore I Double Block & Bleed (Needle / Needle / Needle) | | | | | | | | | | | | | | |
| Packing | | | | | | | | | | | | | | | | | |
| A | PTFE | L | ISO FE Series Type 1 | | | | | | | | | | | | | | |
| B | Graphite | N | ISO FE Series Type 3 | | | | | | | | | | | | | | |
| W | Reinforced PTFE – TA-Luft | P | ISO FE Series Type 4 | | | | | | | | | | | | | | |
| Process Connection | | | | | | | | | | | | | | | | | |
| ASME Flange | | | | | | EN Flange | | | | | | | | | | | |
| NA | 1/2" RF | NM | 1 1/2" RTJ | QA | DN15 B1 | QW | DN50 B1 | | | | | | | | | | |
| NC | 1/2" RTJ | NN | 2" RF | QD | DN15 C (tongue) | Q2 | DN80 B1 | | | | | | | | | | |
| ND | 3/4" RF | NQ | 2" RTJ | QF | DN20 B1 | | | | | | | | | | | | |
| NF | 3/4" RTJ | NR | 2 1/2" RF | QL | DN25 B1 | | | | | | | | | | | | |
| NG | 1" RF | NT | 2 1/2" RTJ | QN | DN25 B2 | | | | | | | | | | | | |
| NJ | 1" RTJ | NU | 3" RF | QP | DN25 C (tongue) | API Flanges on request! | | | | | | | | | | | |
| NK | 1 1/2" RF | NW | 3" RTJ | QQ | DN25 D (groove) | | | | | | | | | | | | |
| ASME Flange Class | | | | | | EN Flange PN Designation | | | | | | | | | | | |
| A | 150 | D | 900* | D | PN 40 | | | | | | | | | | | | |
| B | 300 | E | 1,500 | G | PN 160 | | | | | | | | | | | | |
| C | 600 | F | 2,500 | H | PN 250 | | | | | | | | | | | | |
| Outlet Connection | | | | | | | | | | | | | | | | | |
| Thread Connection | | | | | | Transmitter Interface | | | | | | | | | | | |
| LGQ | G 1/2 Female (Integral Swivel Gauge Adapter) | | | | | RD1 | EN 61518 Type A (for Axial Outlet available only) | | | | | | | | | | |
| LN4 | 1/2 NPT Female | | | | | RFB | For Rosemount 2051/3051 Coplanar™ Transmitter (for Axial Outlet available only) | | | | | | | | | | |
| JN4 | 1/2 NPT Male | | | | | | | | | | | | | | | | |
| For ASME Flange Connections on Axial Outlet use Designator of Process Connection. Dual Flange Style is Standard – Wafer Style see Options. | | | | | | | | | | | | | | | | | |
| Body Material | | | | | | | | | | | | | | | | | |
| C | A105 | L | A350 LF2 | V | Alloy 625 UNS N06625 | | | | | | | | | | | | |
| F | Duplex UNS S31803 | M | Alloy 400 UNS N04400 | D | Super Duplex UNS S32750 | | | | | | | | | | | | |
| H | Alloy C-276 UNS N10276 | S | 1.4401 / 1.4404 / 316 / 316L | B | 6Mo UNS S31254 | | | | | | | | | | | | |
| Vent Connection | | | | | | | | | | | | | | | | | |
| A | Without (Block Type only) | | | E | 1/2 NPT Female | | | | | | | | | | | | |
| C | 1/4 NPT Female | | | F | 1/2 NPT Female plugged | | | | | | | | | | | | |
| D | 1/4 NPT Female plugged | | | | | | | | | | | | | | | | |
| Options | | | | | | | | | | | | | | | | | |
| B | Oxygen Service | | | R | Stainless Steel Handwheel and Locking Plate Design incl. Padlock | | | | | | | | | | | | |
| S | Wafer Style (Flange x Flange) | | | Q | Stainless Steel Handwheel and Locking Plate Design without Padlock | | | | | | | | | | | | |
| M | Wetted Parts with 3.1 Certificate | | | V | All Valve Head Units Anti-Tamper lockable without Padlock | | | | | | | | | | | | |
| | | | | W | All Valve Head Units Anti-Tamper lockable incl. Padlock | | | | | | | | | | | | |
| | | | | Y | Vent Valve Head Units Anti-Tamper lockable incl. Padlock | | | | | | | | | | | | |

* Relevant for Flange Sizes $\geq 3"$ only. For Flange Sizes 1/2" to 2 1/2" Class 1,500 (Code E) to be used.

Wetted Parts according to above mentioned material list are supplied according to NACE MR0175/MR0103 and ISO 15156 (latest issue).

Note: Not every configuration which can be created in the ordering information is feasible / available.

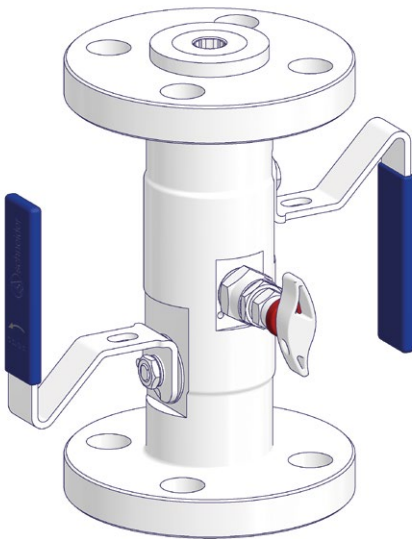
VariAS-Blocks – Double Block & Bleed Types

VariAS-Blocks – Double Block & Bleed Types

The VariAS-Blocks – Double Block & Bleed Types are designed to replace conventional, multiple-valve installations. The VariAS-Blocks are forged, one-piece Double Block & Bleed assemblies for primary isolation of pressure take-offs, where the valve is directly mounted to the vessel or process pipe. Instruments may be directly mounted to the valve outlet or remote mounted with impulse pipe work.

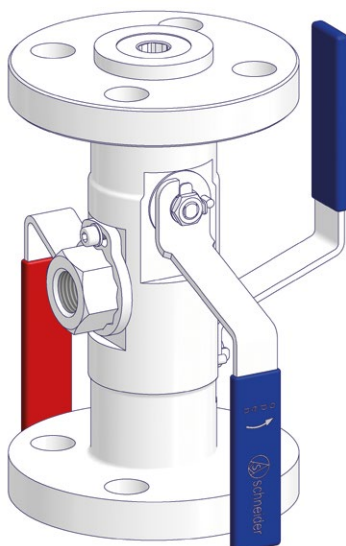
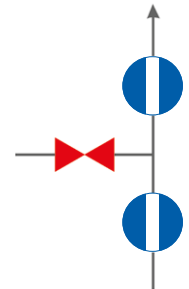
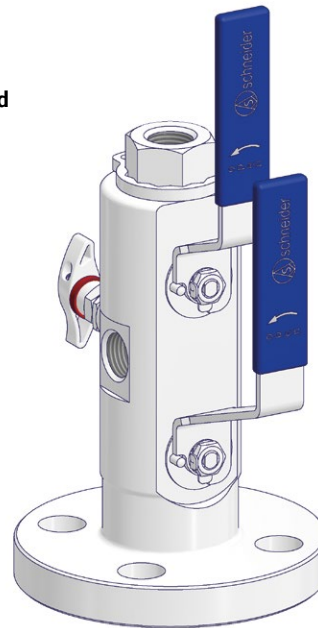
Features two independently operable ball valves for isolation with an intermediate needle valve alternatively ball valve for venting.

Flange x Flange

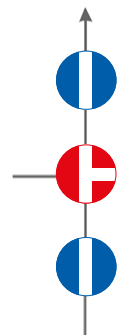
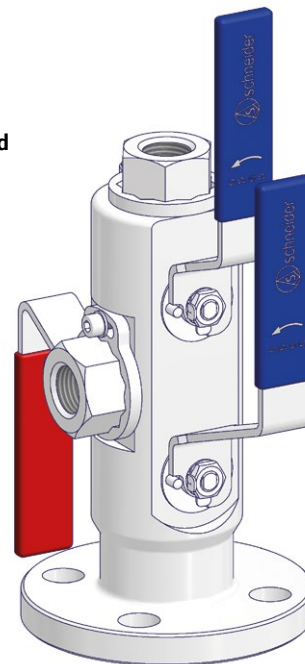


Double Isolate Ball Valve and Single Vent Needle Valve

Flange x Thread



Double Isolate Ball Valve and Single Vent Ball Valve



Body Material Options

| Material Group | AS Material Designation | Material No. | Short Name | Equivalent UNS-No. | Material Grade acc. to ASTM |
|-------------------------------------|--------------------------|--------------|---------------------|--------------------|-----------------------------|
| Carbon Steel | A105 | | | | A105 |
| | LF2 | | | | LF2 |
| Austenitic Stainless Steel | 316 quadruple certified* | 1.4401 | X5CrNiMo17-12-2 | S31600 | 316 |
| | | 1.4404 | X2CrNiMo17-12-2 | S31603 | 316L |
| | 6Mo | 1.4547 | X 1CrNiMoCuN20-18-7 | S31254 | |
| Austenitic-Ferritic Stainless Steel | Duplex | 1.4462 | X2CrNiMoN22-5-3 | S31803 | F51 |
| | Superduplex | 1.4410 | X2CrNiMoN25.7.4 | S32750 | F53 |
| | | 1.4501 | X2CrNiMoCuWN25.7.4 | S32760 | F55 |
| Nickel Based Alloys | Alloy 400 | 2.4360 | NiCu30Fe | N04400 | |
| | Alloy C-276 | 2.4819 | NiMo 16 Cr 15 W | N10276 | |
| | Alloy 625 | 2.4856 | NiCr22Mo9Nb | N06625 | |
| | Alloy 825 | 2.4858 | NiCr21Mo | N08825 | |

* Quadruple certified means 316 / 316L / 1.4401 / 1.4404

Standard Features

| | | | |
|-------------------------------|---------------|---------------|---------------|
| Ball Bore Size | 10 mm (0.39") | 14 mm (0.55") | 20 mm (0.79") |
| Needle Valve Bore Size | 5 mm (0.197") | 5 mm (0.197") | 8 mm (0.315") |
| ASME B16.5 Flange Connections | 1/2" to 2" | 3/4" to 2" | 1" to 3" |

- Ball / Needle / Ball Design
- One-Piece Body
- Outlet Connection 1/2 NPT Female or Flange Connection acc. to Process Connection
- Vent Connection 1/2 NPT Female
- Fire Safe Tested acc. to ISO 10497 / API 607 – With Graphite Seals only
- Anti-Static Design
- Anti-Blowout Stems

Sour Gas Service:

Wetted parts according to a.m. material list are supplied as standard according to NACE MR0175/MR0103 and ISO 15156 / ISO 17945 (latest issue).

Pressure Test:

A shell test and a seat leakage test are performed at 1.5 times the max. allowable (Working) Pressure (PS) acc. to EN 12266-1 – P10, P11 and P12 respectively MSS-SP61 (and complies also with ASME B31.1 and B31.3) at every standard AS-Schneider VariAS-Block → 100% Pressure Tested!

Certification:

Certified Mill Test Report (CMTR) as inspection certificate 3.1 acc. to EN 10 204 for valve body material and pressure test available on request.

The manifolds can be provided by default with a

- CRN Certificate
- EAC Certificate – Manifolds are marked with EAC

Optional Features

- API Flange Connections (up to 689 bar [10,000 psi])
- EN 1092-1 Flange Connections
- Ball / Ball / Ball Design
- Ball / Needle Design
- Ball / Ball Design
- Metal Seated Ball Valve for 10 mm Bore Size
- Anti-Tamper Head Units
- Swivel Gauge Connectors – See also Accessories on Page 26
- Pressure Tested according to API 598
- Wake Frequency Calculation for Injection or Sampling Applications
- Hydrogen Service

Fugitive Emission Application:

For Fugitive Emission Applications AS-Schneider is providing ISO 15848 and TA-Luft 2021.

For more details please contact the factory.

Oxygen and Hydrogen Service:

On request.

If you don't find your options in this catalogue, please contact the factory.

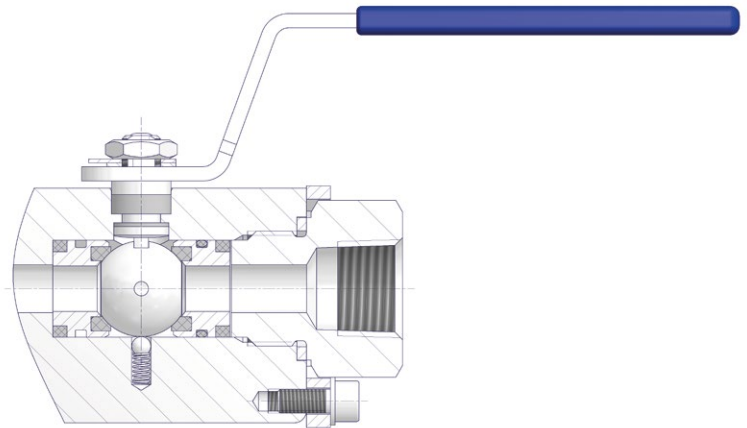
Standard Valve Designs for VariAS-Blocks

Ball Valves – Bore Size 10 mm (0.39")

Standard Design – Stem Seal: Packing

Features

- Floating Ball Design
- Ball Valve Seat: Reinforced PTFE or PEEK
- Ball Valve Seats are totally enclosed in seat carrier
- Seat Seals: FKM, RGD resistant O-Ring and Graphite or PTFE
- Stem Seal: Standard Packing in PTFE and Graphite
- Max. allowable (Working) Pressure (PS): 420 bar (6,092 psi)
- Anti-Blowout Stem Design
- Anti-Static Design
- Fire Safe Tested acc. to ISO 10497 / API 607
 - With Graphite Packing only
- All Non-wetted Parts in 316 Stainless Steel
- Lockable Handle with Color Coded Handle Grip
 - Isolate BLUE | Vent RED



| Components | Carbon Steel | Stainless Steel | Exotic Alloys | | | | | |
|---------------------------|------------------------------|-----------------|---------------|-------------|--------|------------|-----------|-----|
| | Material / Material No. | | | | | | | |
| Body | A 105 resp. LF2 | 316 / 316L | Alloy 400 | Alloy C-276 | Duplex | UNS S32750 | Alloy 625 | 6Mo |
| Body End Connector | | | | | | | | |
| Ball | 316 / 316L | 316 / 316L | Alloy 400 | Alloy C-276 | Duplex | UNS S32750 | Alloy 625 | 6Mo |
| Stem | | | | | | | | |
| Seat Carrier | | | | | | | | |
| Ball Seat | Reinforced PTFE or PEEK | | | | | | | |
| Carrier Seals | FKM / Graphite or FKM / PTFE | | | | | | | |
| Primary Stem Seal | Reinforced PTFE | | | | | | | |
| Packing | PTFE or Graphite | | | | | | | |
| Gland | 316 | | | | | | | |
| Locking Plate | 316 | | | | | | | |
| Handle | 316 | | | | | | | |
| Handle Grip | Vinyl | | | | | | | |
| Stop Pin | A4 | | | | | | | |

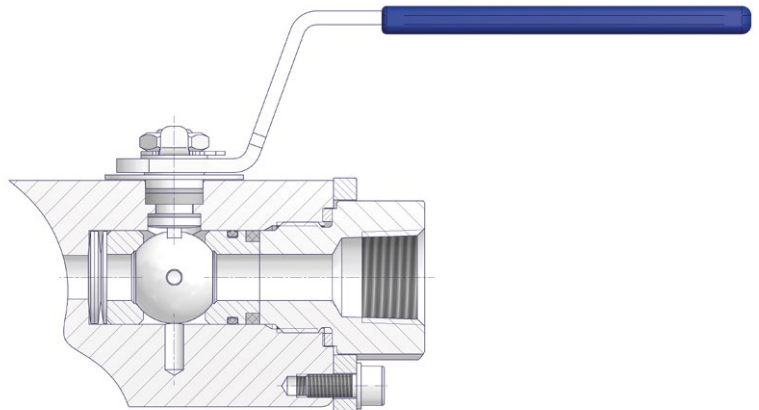
Wetted components listed in **bold**.

Metal Seated Ball Valves – Bore Size 10 mm (0.39")

Standard Design – Stem Seal: Packing

Features

- Floating Ball Design
- Ball and Valve Seats are coated with Hardalloy and Carbide Compounds
- Seat Seals: FKM RGD resistant O-Ring and Graphite
- Stem Seal: Packing in Graphite
- Max. allowable (Working) Pressure (PS): 420 bar (6,092 psi)
- Fully rated up to 200°C (392°F; according to ASME B16.34)
- Spring-loaded Seats to ensure low operating torques and to compensate temperature changes
- Anti-Blowout Stem Design
- Anti-Static Design
- Fire Safe Tested acc. to ISO 10497 / API 607
- All Non-wetted Parts in 316 Stainless Steel
- Lockable Handle with Color Coded Handle Grip
 - Isolate BLUE | Vent RED



| Components | Carbon Steel | Stainless Steel |
|---------------------------|-------------------------|-----------------|
| | Material / Material No. | |
| Body | A 105 resp. LF2 | 316 / 316L |
| Body End Connector | | |
| Stem | 316 / 316L | |
| Ball | 316 | |
| Ball Seat | TCC Coated | |
| Seat Seals | FKM / Graphite | |
| Primary Stem Seal | Reinforced PTFE | |
| Packing | Graphite | |
| Beleville Springs | Inconel 718 | |
| Gland | 316 | |
| Locking Plate | 316 | |
| Handle | 316 | |
| Handle Grip | Vinyl | |
| Stop Pin | A4 | |

Wetted components listed in **bold**.

Standard Valve Designs for VariAS-Blocks

Ball Valves – Bore Size 14 mm (0.55") and 20 mm (0.79")

Standard Design – Stem Seal: Packing

Features

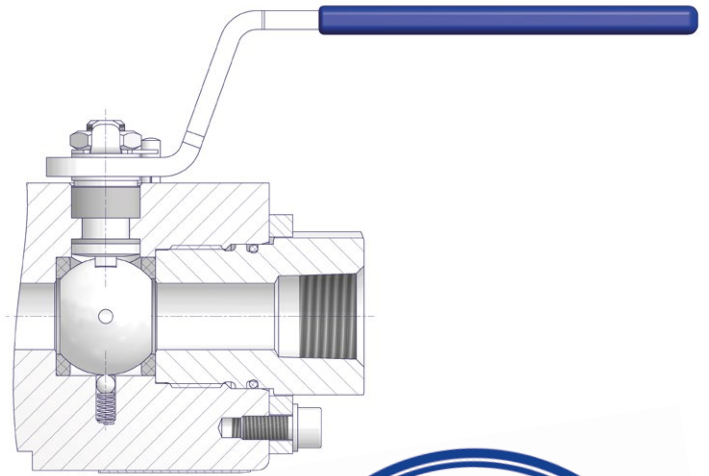
- Floating Ball Design
- Ball Valve Seat: PEEK or Reinforced PTFE
- Self Venting Ball Seats
- Stem Seal: Standard Packing in PTFE and Graphite
- Max. allowable (Working) Pressure (PS):
420 bar (6,092 psi) with PEEK Seats and
150 bar (2,175 psi) with Reinforced PTFE Seats
- Metal Sealing between Body and End Connector.
Additional O-Ring at the Body End Connector to protect
Threads from the Environment.
- Anti-Blowout Stem Design
- Anti-Static Design
- Fire Safe Tested acc. to ISO 10497 / API 607
– With Graphite Packing only
- All Non-wetted Parts in 316 Stainless Steel
- Lockable Handle with Color Coded Handle Grip
– Isolate **BLUE** | Vent **RED**

Approved Performance data

- Temperature range: -50°C up to +150°C
- Pressure rating: Class 150 up to Class 2,500

Approved Performance validation acc. to

- SHELL MESG SPE 77/300, App. C (DVT)
- Petronas PTS 12.32.07 (PAT)



Standard Valve Designs for VariAS-Blocks

Ball Valves – Bore Size 14 mm (0.55") and 20 mm (0.79")

Materials of Construction

| Components | Carbon Steel | Stainless Steel | Exotic Alloys | | | | | |
|---------------------------|-------------------------|-----------------|---------------|-------------|--------|------------|-----------|-----|
| | Material / Material No. | | | | | | | |
| Body | A 105 resp. LF2 | 316 / 316L | Alloy 400 | Alloy C-276 | Duplex | UNS S32750 | Alloy 625 | 6Mo |
| Body End Connector | | | | | | | | |
| Ball | 316 / 316L | | | | | | | |
| Stem | 316 / 316L | | | | | | | |
| Ball Seat | Reinforced PTFE or PEEK | | | | | | | |
| Primary Stem Seal | Reinforced PTFE | | | | | | | |
| Packing | PTFE or Graphite | | | | | | | |
| O-Ring | FKM | | | | | | | |
| Gland | 316 | | | | | | | |
| Locking Plate | 316 | | | | | | | |
| Handle | 316 | | | | | | | |
| Handle Grip | Vinyl | | | | | | | |
| Stop Pin | A4 | | | | | | | |

Wetted components listed in bold.

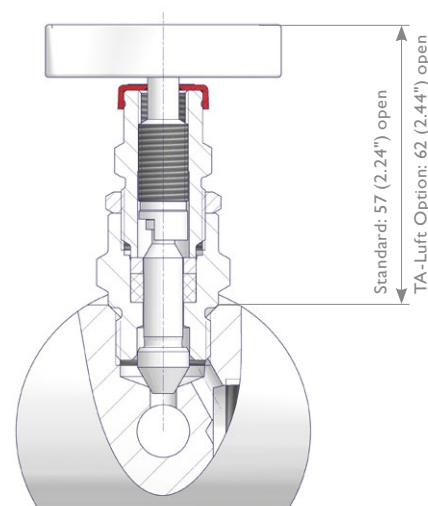
Standard Needle Valves

Screwed Bonnet – Needle Seal: Packing

Features

- Integral Valve Seat – Metal to metal seated
- Non-rotating Needle
- External Stem Thread – Packing below stem threads.
Stem Threads are protected from process media (non-wetted).
- Stem with Cold Rolled Threads
- Blow-out Proof Needle
- Back Seat – Metal to metal secondary needle seal
- Lock Pin – Eliminates unauthorized removal of the bonnet
- Color Coded Dust Cap for operating thread protection (see page 6)
- Needle Seal: Standard Packing in PTFE and Graphite
- Max. allowable (Working) Pressure (PS): 420 bar (6,092 psi)
- Anti-Tamper Valve Head Options and Stainless Steel Handwheel available (see Page 9)
- Materials of Construction (see Page 6)
- All Non-wetted Parts in 316 Stainless Steel
- ISO 15848-1 Tightness Class B approved
 - Graphite -29°C up to +40°C
 - PTFE -29°C up to +82°C

For higher performance Valves see page 22/23



Fugitive Emission Application Designs for VariAS-Blocks

Valves acc. to ISO 15848 / TA-Luft 2021

We can offer the full range of our VariAS-Block Series tested and certified according to ISO 15848-1. These valves are designed to reduce fugitive emissions for environmental protection.

- Tested and applicable for use up to 200°C (392°F)
- Production Test according to ISO 15848-2 available on request

YOUR BENEFITS:

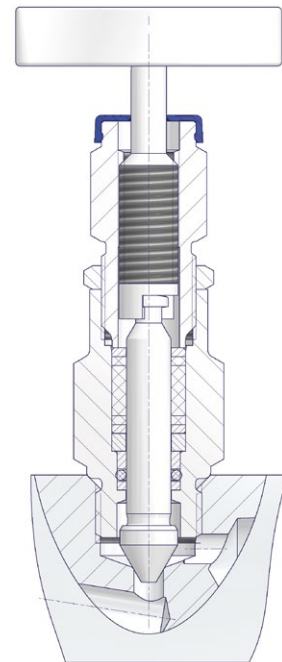
- ✓ Also Needle Valves are tested and certified according to ISO 15848-1.
- ✓ Graphite Packed VariAS-Blocks according to ISO 15848-1 meet also the requirements for Fire Safe according to ISO10497 / API 607.
- ✓ ISO 15848-1 Valves also comply with the requirements of TA Luft 2021.
- ✓ Reliability due to Type Testing and Certification by third party inspection.

Needle Valves acc. to ISO 15848

Screwed Bonnet – Type 1 O-Ring Needle Seal + Graphite Packing
Type 3 PTFE Packing
Type 4 – Graphite packing

Features

- Integral Valve Seat – Metal to metal seated
- Non-rotating Needle
- External Stem Thread – Packing below stem threads. Stem threads are protected from process media (non-wetted).
- Stem with Cold Rolled Threads
- Blow-out Proof Needle
- Back Seat – Metal to metal secondary needle seal
- Lock Pin – Eliminates unauthorized removal of the bonnet
- Color Coded Dust Cap for operating thread protection (see page 6)
- Needle Seal:
 - Standard Packing in PTFE, Graphite or Graphite plus FKM O-Ring – RGD resistant (RGD = Rapid Gas Decompression)
- Max. allowable (Working) Pressure (PS): 420 bar (6,092 psi)
- Anti-Tamper Valve Head Options available
- All Non-wetted Parts in 316 Stainless Steel
- Types also comply with the requirements of TA-Luft 2021



Picture shows ISO FE Type 1

Fugitive Emission Application Designs for VariAS-Blocks

ISO FE Performance Data

Tightness Class for VariAS-Blocks at Room Temperature (RT) (-29°C to 40°C [-20°F to 104°F]) Double Block & Bleed (Ball / Needle / Ball)

| Ball Seat | Packing Ball Valve | Packing Needle Valve | Tightness Class | | |
|-------------------------|--------------------|---------------------------------|--------------------|---------------------|---------------------|
| | | | C01 205 Cycles* | C02 1,500 Cycles | C03 2,500 Cycles |
| Reinforced PTFE or PEEK | PTFE | PTFE / Reinforced PTFE (Type 3) | Class A | Class A | Class B |
| | Graphite | Graphite + FKM O-Ring (Type 1) | | Class B | |
| | Graphite | Graphite (Type 4) | | | |
| Metal Seated | Graphite | Graphite + FKM O-Ring (Type 1) | | Class B | |

* Several Stem Seals meet the requirement of ISO 15848-1, Edition 2006. These are more stringent than these of the current Edition 2015:

- Tightness values for Class A was reduced by the factor 10.
- Numbers of mechanical cycles for Class CO1 was reduced from 500 to 205.

Note: The above mentioned table is only valid for Double Block & Bleed Valves (Ball / Needle / Ball). For other types please contact the factory.

Tightness Class for VariAS-Blocks at 200°C (RT to 200°C [-RT to 392°F]) Double Block & Bleed (Ball / Needle / Ball)

| Ball Seat | Packing Ball Valve | Packing Needle Valve | Tightness Class | | |
|-------------------------|--------------------|---------------------------------|--------------------|---------------------|---------------------|
| | | | C01 205 Cycles* | C02 1,500 Cycles | C03 2,500 Cycles |
| Reinforced PTFE or PEEK | PTFE | PTFE / Reinforced PTFE (Type 3) | Class A | Class A | Class B |
| | Graphite | Graphite + FKM O-Ring (Type 1) | | Class B | |
| | Graphite | Graphite (Type 4) | | | |
| Metal Seated | Graphite | Graphite + FKM O-Ring (Type 1) | | Class B | |

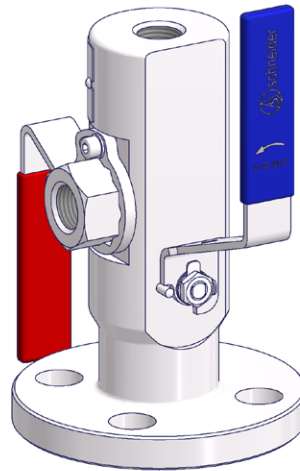
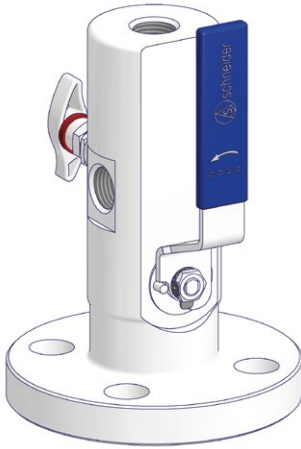
* Several Stem Seals meet the requirement of ISO 15848-1, Edition 2006. These are more stringent than these of the current Edition 2015:

- Tightness values for Class A was reduced by the factor 10.
- Numbers of mechanical cycles for Class CO1 was reduced from 500 to 205.

Note: The above mentioned table is only valid for Double Block & Bleed Valves (Ball / Needle / Ball). For other types please contact the factory.

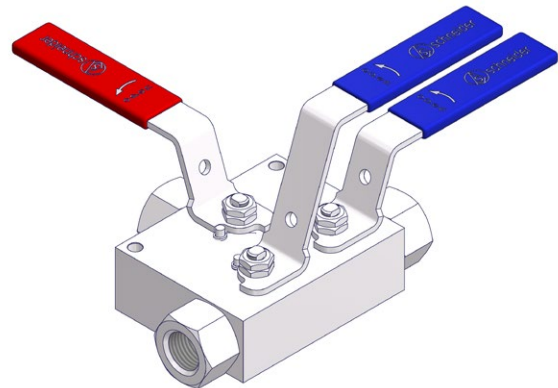
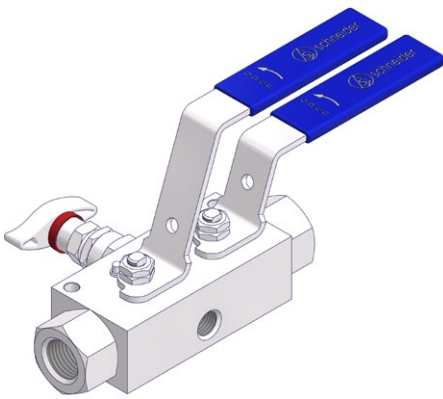
VariAS-Block Options and Related Types

Block & Bleed Types



Note: Flange x Flange Types are not illustrated.

Ball Valve Manifolds (see catalog AS-1901)



VariAS-Block for Injection and Sampling Applications

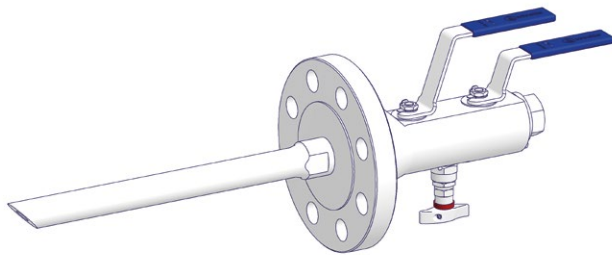
VariAS-Block for Injection and Sampling Applications

All options and configurations shown within the standard VariAS-Block Range can be offered by the addition of a customized injection probe respectively sampling probe which extends from the pipe flange into the process stream. The probe is designed as a one piece solution with a fine-turned surface to optimize the wake frequency behavior and provide utmost stability. The probe lengths must be specified by the customer. The probe O.D. is 25 mm. Wake frequency calculation and support collar on request.

VariAS-Block for Sampling Applications

Option 1

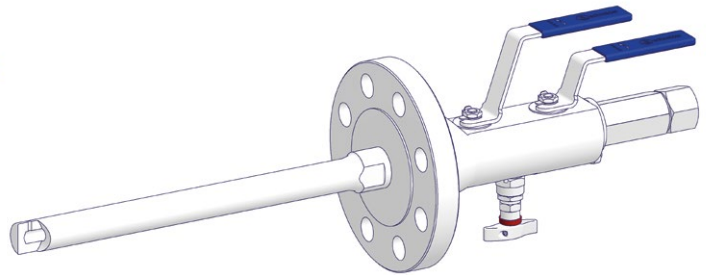
This design has been developed to remove a sample directly from the process stream at full system pressure.



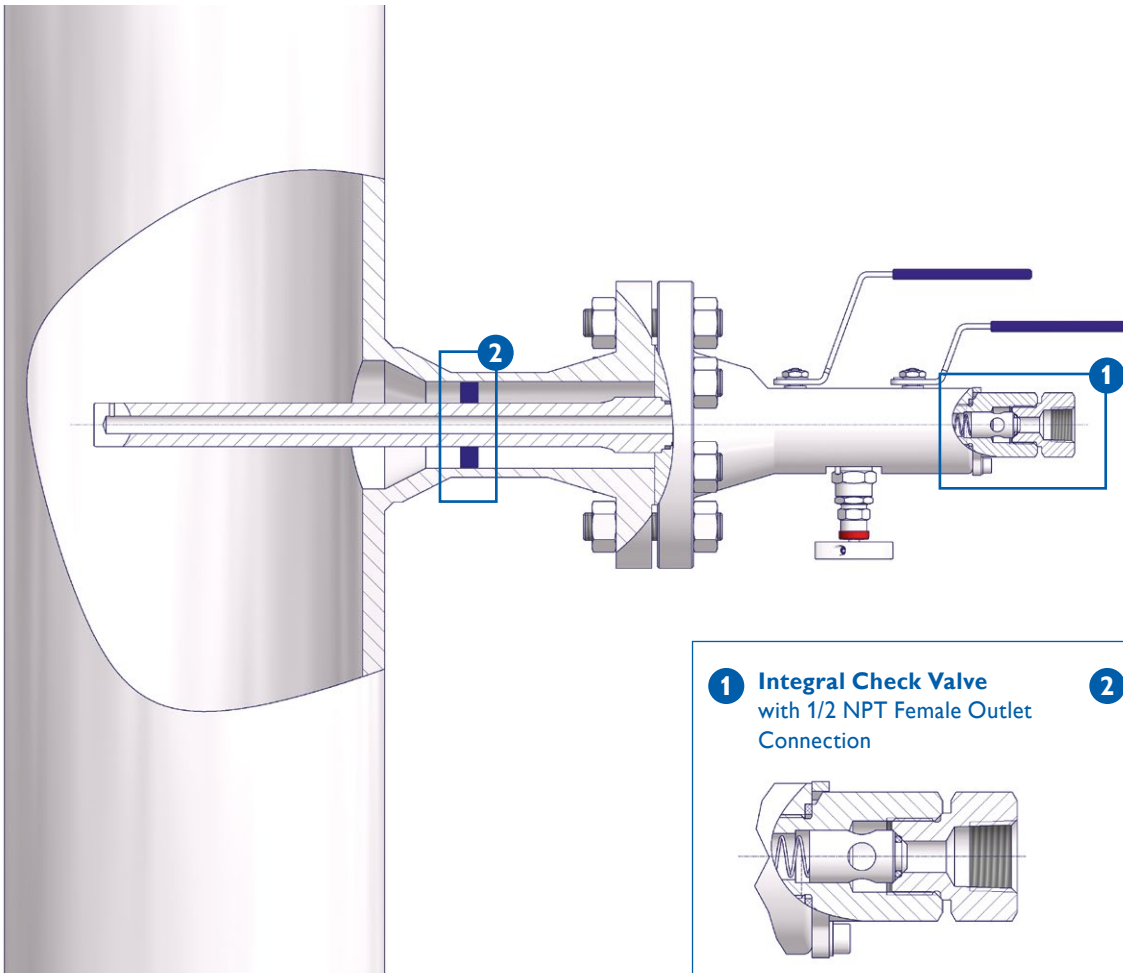
VariAS-Block for Injection Applications

Option V

This design has been developed to inject directly into the process stream at full system pressure. The integral check valve eliminates the risk of back flow out of the process stream during the injection. Available on both flanged and threaded connections.

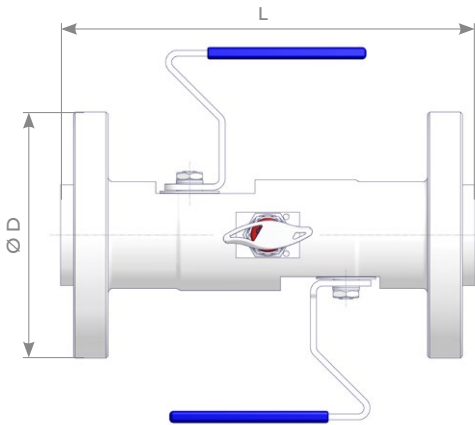


Installed Injection VariAS-Block incl. Check Valve



VariAS-Blocks I Weights and Dimensions

VariAS-Blocks – Weights and Dimensions

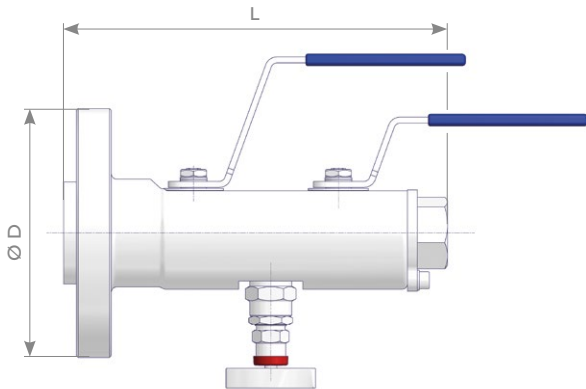


Flange x Flange

| Flange Size (in) | Flange Class | Ø D (mm) | Bore Size 10 mm (0.39") | | | Bore Size 14 mm (0.55") | | | Bore Size 20 mm (0.79") | | |
|------------------|--------------|----------|-------------------------|-------|---------------------|-------------------------|-------|---------------------|-------------------------|-------|---------------------|
| | | | L (mm) | | Approx. Weight (kg) | L (mm) | | Approx. Weight (kg) | L (mm) | | Approx. Weight (kg) |
| | | | Flange Facing RF | RTJ | | Flange Facing RF | RTJ | | Flange Facing RF | RTJ | |
| 1/2 | 150 | 88.9 | 199.2 | | 3 | | | | | | |
| | 300 | 95.3 | 199.2 | 207.2 | 4 | | | | | | |
| | 600 | 95.3 | 208.8 | 207.2 | 4 | | | | | | |
| | 900 / 1,500 | 120.6 | 208.8 | 208.8 | 6 | | | | | | |
| | 2,500 | 133.4 | 208.8 | 208.8 | 8 | | | | | | |
| 3/4 | 150 | 98.6 | 199.2 | | 4 | 210.0 | | 5 | | | |
| | 300 | 117.3 | 199.2 | 208.8 | 5 | 210.0 | 242.0 | 7 | | | |
| | 600 | 117.3 | 208.8 | 208.8 | 5 | 242.0 | 242.0 | 7 | | | |
| | 900 / 1,500 | 130.0 | 208.8 | 208.8 | 7 | 280.0 | 280.0 | 10 | | | |
| | 2,500 | 139.7 | 240.8 | 240.8 | 10 | 280.0 | 280.0 | 12 | | | |
| 1 | 150 | 108.0 | 199.2 | 208.8 | 5 | 210.0 | 210.0 | 6 | 200.0 | | 7 |
| | 300 | 124.0 | 199.2 | 208.8 | 6 | 210.0 | 242.0 | 7 | 200.0 | 200.0 | 9 |
| | 600 | 124.0 | 208.8 | 208.8 | 6 | 242.0 | 242.0 | 8 | 200.0 | 200.0 | 9 |
| | 900 / 1,500 | 149.3 | 240.8 | 240.8 | 10 | 280.0 | 280.0 | 12 | 287.0 | 287.0 | 14 |
| | 2,500 | 158.8 | 240.8 | 240.8 | 14 | 280.0 | 280.0 | 15 | 287.0 | 287.0 | 17 |
| 1 1/2 | 150 | 127.0 | 199.2 | 208.8 | 6 | 210.0 | 210.0 | 8 | 200.0 | 200.0 | 10 |
| | 300 | 155.4 | 231.2 | 240.8 | 9 | 242.0 | 242.0 | 11 | 200.0 | 200.0 | 12 |
| | 600 | 155.4 | 240.8 | 240.8 | 10 | 242.0 | 242.0 | 12 | 237.0 | 237.0 | 13 |
| | 900 / 1,500 | 177.8 | 240.8 | 240.8 | 16 | 242.0 | 242.0 | 16 | 237.0 | 237.0 | 18 |
| | 2,500 | 203.2 | 265.8 | 268.8 | 27 | 280.0 | 280.0 | 26 | 287.0 | 287.0 | 29 |
| 2 | 150 | 152.4 | 231.2 | 240.8 | 9 | 242.0 | 242.0 | 11 | 200.0 | 200.0 | 12 |
| | 300 | 165.1 | 231.2 | 243.8 | 12 | 242.0 | 242.0 | 12 | 200.0 | 200.0 | 14 |
| | 600 | 165.1 | 240.8 | 243.8 | 13 | 242.0 | 242.0 | 14 | 200.0 | 200.0 | 14 |
| | 900 / 1,500 | 215.9 | 265.8 | 268.8 | 28 | 280.0 | 280.0 | 27 | 237.0 | 237.0 | 27 |
| | 2,500 | 235.0 | 265.8 | 268.8 | 40 | 280.0 | 280.0 | 37 | 287.0 | 287.0 | 39 |
| 2 1/2 | 150 | 177.8 | | | | | | | 200.0 | 200.0 | 16 |
| | 300 | 190.5 | | | | | | | 200.0 | 200.0 | 18 |
| | 600 | 190.5 | | | | | | | 237.0 | 237.0 | 20 |
| | 900 / 1,500 | 244.5 | | | | | | | 287.0 | 287.0 | 38 |
| | 2,500 | 266.7 | | | | | | | 381.0 | 386.0 | 58 |
| 3 | 150 | 190.5 | | | | | | | 200.0 | 200.0 | 18 |
| | 300 | 209.5 | | | | | | | 200.0 | 200.0 | 22 |
| | 600 | 209.5 | | | | | | | 237.0 | 237.0 | 25 |
| | 900 | 241.3 | | | | | | | 287.0 | 287.0 | 37 |
| | 1,500 | 266.7 | | | | | | | 335.0 | 335.0 | 52 |
| | 2,500 | 304.8 | | | | | | | 401.0 | 406.0 | 85 |

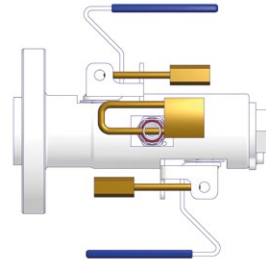
VariAS-Blocks I Weights and Dimensions

VariAS-Blocks – Weights and Dimensions



Lockable Valves – Option W

All Valves with Option W (Lockable Valves) have Secondary Isolation Valve on opposite side of Primary Isolation Valve.

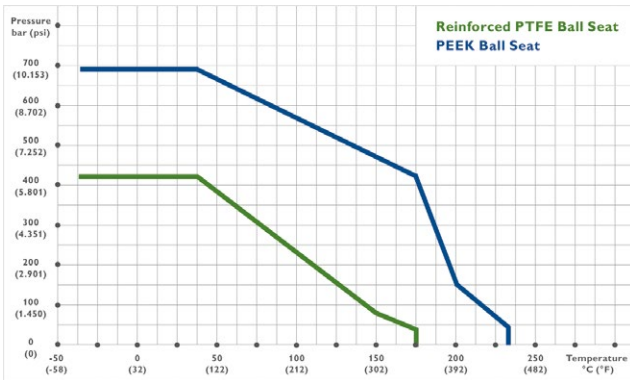


Flange x Thread

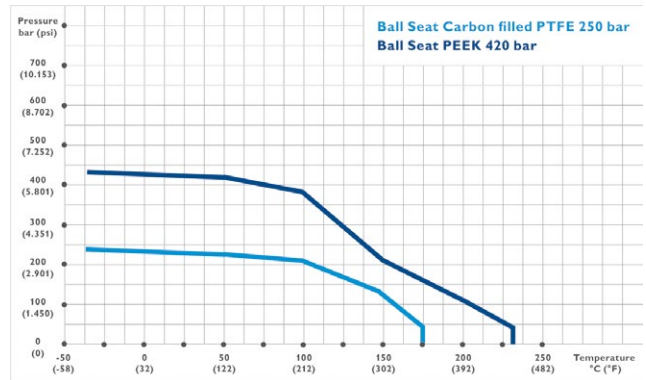
| Flange Size (in) | Flange Class | Ø D (mm) | Bore Size 10 mm (0.39") | | | Bore Size 14 mm (0.55") | | | Bore Size 20 mm (0.79") | | |
|------------------|--------------|----------|-------------------------|-------|---------------------|-------------------------|-------|---------------------|-------------------------|-------|---------------------|
| | | | L (mm) | | Approx. Weight (kg) | L (mm) | | Approx. Weight (kg) | L (mm) | | Approx. Weight (kg) |
| | | | Flange Facing RF | RTJ | | Flange Facing RF | RTJ | | Flange Facing RF | RTJ | |
| 1/2 | 150 | 88.9 | 187.2 | | 3 | | | | | | |
| | 300 | 95.3 | 187.2 | 191.2 | 3 | | | | | | |
| | 600 | 95.3 | 192.0 | 191.2 | 3 | | | | | | |
| | 900 / 1,500 | 120.6 | 192.0 | 192.0 | 4 | | | | | | |
| | 2,500 | 133.4 | 192.0 | 192.0 | 5 | | | | | | |
| 3/4 | 150 | 98.6 | 187.2 | | 3 | 192.5 | | 5 | | | |
| | 300 | 117.3 | 187.2 | 192.0 | 4 | 192.5 | 208.5 | 5 | | | |
| | 600 | 117.3 | 192.0 | 192.0 | 4 | 208.5 | 208.5 | 6 | | | |
| | 900 / 1,500 | 130.0 | 192.0 | 192.0 | 5 | 227.5 | 227.5 | 7 | | | |
| | 2,500 | 139.7 | 208.0 | 208.0 | 6 | 227.5 | 227.5 | 8 | | | |
| 1 | 150 | 108.0 | 192.0 | 192.0 | 4 | 192.5 | 192.5 | 5 | 207.0 | | 8 |
| | 300 | 124.0 | 192.0 | 192.0 | 4 | 192.5 | 208.5 | 6 | 207.0 | 207.0 | 8 |
| | 600 | 124.0 | 192.0 | 192.0 | 4 | 208.5 | 208.5 | 6 | 207.0 | 207.0 | 8 |
| | 900 / 1,500 | 149.3 | 208.0 | 208.0 | 6 | 227.5 | 227.5 | 8 | 242.0 | 242.0 | 11 |
| | 2,500 | 158.8 | 208.0 | 208.0 | 8 | 227.5 | 227.5 | 10 | 242.0 | 242.0 | 12 |
| 1 1/2 | 150 | 127.0 | 192.0 | 192.0 | 5 | 192.5 | 192.5 | 6 | 207.0 | 207.0 | 9 |
| | 300 | 155.4 | 208.0 | 208.0 | 6 | 208.5 | 208.5 | 8 | 207.0 | 207.0 | 10 |
| | 600 | 155.4 | 208.0 | 208.0 | 7 | 208.5 | 208.5 | 8 | 223.0 | 223.0 | 10 |
| | 900 / 1,500 | 177.8 | 208.0 | 208.0 | 9 | 208.5 | 208.5 | 10 | 223.0 | 223.0 | 13 |
| | 2,500 | 203.2 | 224.0 | 224.0 | 15 | 227.5 | 227.5 | 15 | 242.0 | 242.0 | 18 |
| 2 | 150 | 152.4 | 208.0 | 208.0 | 6 | 208.5 | 208.5 | 8 | 207.0 | 207.0 | 10 |
| | 300 | 165.1 | 209.5 | 209.5 | 7 | 208.5 | 208.5 | 8 | 207.0 | 207.0 | 11 |
| | 600 | 165.1 | 209.5 | 209.5 | 8 | 208.5 | 208.5 | 9 | 207.0 | 207.0 | 11 |
| | 900 / 1,500 | 215.9 | 224.0 | 224.0 | 15 | 227.5 | 227.5 | 16 | 223.0 | 223.0 | 17 |
| | 2,500 | 235.0 | 224.0 | 224.0 | 21 | 227.5 | 227.5 | 21 | 242.0 | 242.0 | 23 |
| 2 1/2 | 150 | 177.8 | | | | | | | 207.0 | 207.0 | 12 |
| | 300 | 190.5 | | | | | | | 207.0 | 207.0 | 13 |
| | 600 | 190.5 | | | | | | | 207.0 | 207.0 | 13 |
| | 900 / 1,500 | 244.5 | | | | | | | 242.0 | 242.0 | 23 |
| | 2,500 | 266.7 | | | | | | | 284.0 | 284.0 | 32 |
| 3 | 150 | 190.5 | | | | | | | 207.0 | 207.0 | 13 |
| | 300 | 209.5 | | | | | | | 207.0 | 207.0 | 15 |
| | 600 | 209.5 | | | | | | | 223.0 | 223.0 | 17 |
| | 900 | 241.3 | | | | | | | 242.0 | 242.0 | 20 |
| | 1,500 | 266.7 | | | | | | | 242.0 | 242.0 | 28 |
| | 2,500 | 304.8 | | | | | | | 284.0 | 284.0 | 45 |

Pressure Ratings, Codes and Specifications for VariAS-Blocks

Pressure-Temperature Rating – Soft Seated Ball Valve 10 mm (0.39") Bore Size



Pressure-Temperature Rating – Soft Seated Ball Valve 14 mm (0.55") Bore Size and 20 mm (0.79") Bore Size



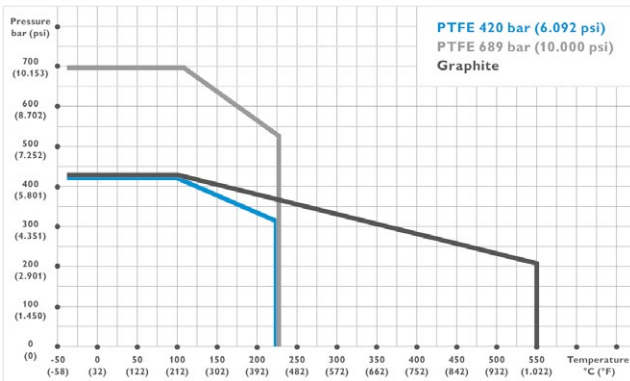
Pressure-Temperature Rating – Metal Seated Ball Valve (10 mm [0.39"] Bore Size)

The Valve is fully rated according to ASME B16.34 up to 200°C (392°F).

Pressure-Temperature Rating – Fugitive Emission Option according to ISO 15848-1

The above mentioned Pressure-Temperature Ratings are limited to max. 200°C (392°F) and 420 bar (6,092 psi).

Pressure-Temperature Rating – Needle Valve



Note: All above mentioned Pressure-Temperature Ratings represent the max. allowable (Working) Pressure (PS). Note that these can be derated by the flange size or body material.

Pressure-Temperature Ratings are based on the standard material 316 stainless steel.

Other materials as shown on page 17, 18 and 21 might have different Pressure-Temperature Ratings.

Codes and Specifications

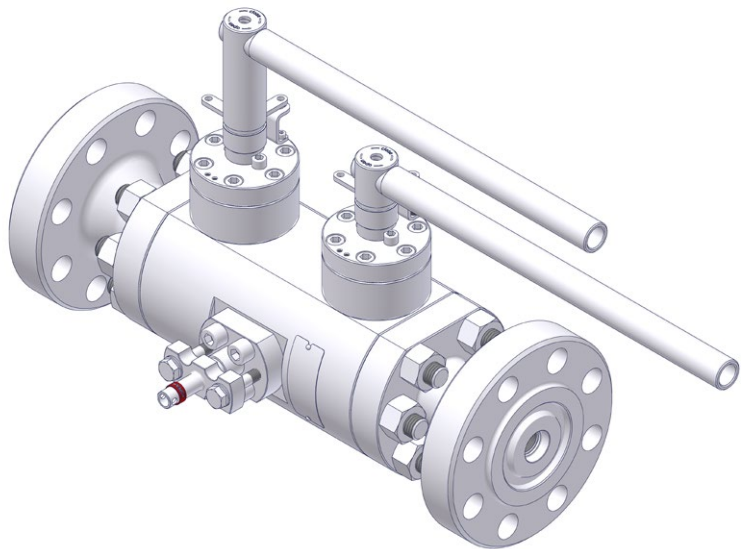
- | | | | |
|-------------------------|---|--------------|---|
| • ASME B31.3 | Process Piping Specification for Pipeline Valves | • MSS SP-61 | Pressure Testing of Valves |
| • ASME B16.34 | Valves – Flanged, Threaded and Welding End | • MSS SP-99 | Instrument Valves |
| • ASME B16.5 | Pipe Flanges and Flanged Fittings | • EN 1092-1 | Flanges and their joints - Circular flanges for pipes, valves, fittings and accessories, PN designated - Part 1: Steel flanges |
| • NACE MR0175/ISO 15156 | Petroleum and Natural Gas Industries – Materials for use in H2S-containing Environments in Oil and Gas Production | • EN 16668 | Industrial valves - Requirements and testing for metallic valves as pressure accessories |
| • API 598 | Valve Inspection and Testing | • EN 13445 | Unfired pressure vessels: Part 1: General, Part 2: Materials |
| • ISO 5208 | Industrial Valves – Pressure Testing of Metallic Valves | • EN 15848-1 | Industrial valves - Measurement, test and qualification procedures for fugitive emissions - Part 1: Classification system and qualification procedures for type testing of valves (ISO 15848-1:2015 + Amd.1:2017) |
| • API 607/ISO 10497 | Fire Test for Soft-Seated Quarter Turn Valves Testing of Valves. Fire Type-testing Requirements | | |
| • MSS SP-25 | Standard Marking System for Valves, Fittings, Flanges, and Unions | | |

Metal Seated High Pressure DBB Valve

API 6A VariAS-Blocks are available in 10,000 psi and 15,000 psi rating

Features

- Design acc. to API 6A
- Ball Bore Size: 14mm (0,55")
- 3 Piece, Trunnion Ball Design
- Seat and Ball Surfaces coated with Nickel Hard Alloy and Tungsten Carbide
- Dynamic and Static Seals: PTFE-Lip Seal and Graphite (Elastomer-free)
- Pressure rating:
10,000 psi /15,000 psi at -50°C up to +120°C
- Drain Ports optional
- Weld Overlay (Cladding) optional
- Anti-Static and Anti-Blowout Stem Design
- Fire Safe Design
- All non-wetted parts in 316 Stainless Steel
- Lockable Lever
- API 6A PR2 and API 6A PSL 3G tested
- ISO 15848-1 Fugitive Emission Tightness Class A
- TA-Luft 2021 compliant



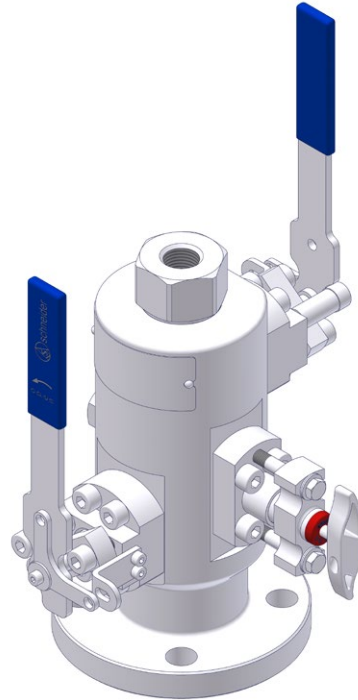
Materials of construction

| Main Components | Duplex | Steel |
|---|---|---------------|
| Body | ASTM A182 F51 | ASTM A694 F60 |
| Closure | ASTM A182 F51 | ASTM A694 F60 |
| Bonnet | ASTM A182 F51 | ASTM A694 F60 |
| Ball | ASTM A479 UNS S31803 | |
| Ball Seat | Nickel Hard Alloy and Tungsten Carbide Coating | |
| Stem | ASTM A479 UNS S31803 | |
| Dynamic Seals (Seat and Stem) and Static Seals (Body Seals) | Primary Seal: PTFE-Lip Seal with PEEK backup ring and Elgiloy Springs Secondary Seal: Graphite | |

DBB Valve - Metal Seated – Bore Size 10mm (0.39")

Features

- Design acc. to SHELL MESC SPE 77/170
- Approved Performance Validation acc. to SHELL MESC SPE 77/300, APPENDIX C (DVT) PETRONAS PTS 12.32.07 (PAT)
- One piece body
- Uni-Directional Floating Ball Design with Spring Energized Metal Seats
- Seat and Ball Surfaces coated with Nickel Hard Alloy and Tungsten Carbide
- Seat Seals: Graphite
- Stem Seal: Graphite
- Flange Sizes: 1/2" up to 2"
- Qualified Pressure Classes: Class 150 – 600
- Qualified Temperature range: -29°C up to +300°C
- Anti-Blowout Stem Design
- Fire Safe Tested acc. to ISO 10497 / API 607
- All non-wetted parts in 316 Stainless Steel



Materials of construction

| Main Components | Carbon Steel | Stainless Steel | Duplex |
|---|----------------|-----------------|--------|
| Body | A105 resp. LF2 | 316/316L | F51 |
| Body End Connector | A105 resp. LF2 | 316/316L | S31803 |
| Bonnet | 316/316L | 316/316L | S31803 |
| Ball | 316/316L | 316/316L | S31803 |
| Stem | 316/316L | | S31803 |
| Seat Carrier | 316/316L | | S31803 |
| Disc Spring for Valve Seat | Inconel 718 | | |
| Primary Seal | Graphite | | |
| Dynamic Seals (Seat and Stem) and Static Seals (Body Seals) | Graphite | | |

VariAS-Blocks | Ordering Information

Ordering Information

| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
|---------------------------------------|--|---|----|------------------------------|---|--------------------|-------------------------|---|----------|---------------------|----|---|----|----|----|
| | | D | B | 2 | - | N | G | C | L | N | 4 | - | S | C | |
| VariAS-Blocks | | | | | | | | | | | | | | | |
| Block & Bleed | | | | | | | | | | | | | | | |
| DD | 10 mm (0.39") Bore Ball Valve (Ball / Ball) | | | | | | | | | | | | | | |
| DE | 10 mm (0.39") Bore Ball Valve (Ball / Needle) | | | | | | | | | | | | | | |
| Double Block & Bleed | | | | | | | | | | | | | | | |
| DA | 10 mm (0.39") Bore Ball Valve (Ball / Ball / Ball) | | | | | | | | | | | | | | |
| DB | 10 mm (0.39") Bore Ball Valve (Ball / Needle / Ball) | | | | | | | | | | | | | | |
| D2 | 14 mm (0.55") Bore Ball Valve (Ball / Needle / Ball) ≥ Flange Size 3/4" | | | | | | | | | | | | | | |
| DK | 20 mm (0.79") Bore Ball Valve (Ball / Needle / Ball) ≥ Flange Size 1" | | | | | | | | | | | | | | |
| Seals – Standard Valve Design | | | | | | | | Seals – Fugitive Emission Application Design | | | | | | | |
| Packing/Body Seals | | | | Ball Seat | | | | Packing/Body Seals | | | | Ball Seat | | | |
| 1 | PTFE | | | Reinforced PTFE*1 | | | | D | Graphite | | | Reinforced PTFE*1 | | | |
| 2 | Graphite | | | Reinforced PTFE*1 | | | | E | PTFE | | | Reinforced PTFE*1 | | | |
| 3 | PTFE | | | PEEK*1 | | | | F | PTFE | | | PEEK*1 | | | |
| 4 | Graphite | | | PEEK*1 | | | | G | Graphite | | | PEEK*1 | | | |
| 6 | Graphite + O-Ring RGD | | | Reinforced PTFE*1 | | | | M | Graphite | | | Metal Seated*3 | | | |
| 8 | Graphite + O-Ring RGD | | | PEEK*1 | | | | | | | | | | | |
| V | Graphite | | | Metal Seated | | | | | | | | | | | |
| X | Lip Seal + Graphite 10k | | | Metal Seated | | | | | | | | | | | |
| Y | Lip Seal + Graphite 15k | | | Metal Seated | | | | | | | | | | | |
| Process Connection | | | | | | | | | | | | | | | |
| ASME Flange Size | | | | | | | | | | | | | | | |
| NA | 1/2" RF | | NJ | 1" RTJ | | NR | 2 1/2" RF | | | | | | | | |
| NC | 1/2" RTJ | | NK | 1 1/2" RF | | NT | 2 1/2" RTJ | | | | | | | | |
| ND | 3/4" RF | | NM | 1 1/2" RTJ | | NU | 3" RF | | | | | | | | |
| NF | 3/4" RTJ | | NN | 2" RF | | NW | 3" RTJ | | | | | | | | |
| NG | 1" RF | | NQ | 2" RTJ | | | | | | | | | | | |
| Process Connection (continued) | | | | | | | | | | | | | | | |
| ASME Flange Class | | | | | | | | | | | | | | | |
| A | 150 | | D | 900*4 | | | | | | | | | | | |
| B | 300 | | E | 1,500 | | | | | | | | | | | |
| C | 600 | | F | 2,500 | | | | | | | | | | | |
| Outlet Connection | | | | | | | | | | | | | | | |
| ASME Flange Size | | | | | | Thread | | | | | | | | | |
| NA | 1/2" RF | | NJ | 1" RTJ | | NR | 2 1/2" RF | | LG | Female G (EN837-1) | | | | | |
| NC | 1/2" RTJ | | NK | 1 1/2" RF | | NT | 2 1/2" RTJ | | JN | Male NPT | | | | | |
| ND | 3/4" RF | | NM | 1 1/2" RTJ | | NU | 3" RF | | LN | Female NPT | | | | | |
| NF | 3/4" RTJ | | NN | 2" RF | | NW | 3" RTJ | | LH | Female G (DIN 3852) | | | | | |
| NG | 1" RF | | NQ | 2" RTJ | | | | | | | | | | | |
| Outlet Connection (continued) | | | | | | | | | | | | | | | |
| ASME Flange Class | | | | | | Thread Size | | | | | | | | | |
| A | 150 | | D | 900*4 | | 4 | 1/2" | | | | | | | | |
| B | 300 | | E | 1,500 | | 6 | 3/4" | | | | | | | | |
| C | 600 | | F | 2,500 | | 8 | 1" | | | | | | | | |
| Body Material | | | | | | | | | | | | | | | |
| C | A105 | | L | A350 LF2 | | V | Alloy 625 UNS N06625 | | | | | | | | |
| F | Duplex UNS S31803 | | M | Alloy 400 UNS N04400 | | D | Super Duplex UNS S32750 | | | | | | | | |
| H | Alloy C-276 UNS N10276 | | S | 1.4401 / 1.4404 / 316 / 316L | | B | 6Mo UNS S31254 | | | | | | | | |
| Vent Connection | | | | | | | | | | | | | | | |
| C | 1/4 NPT Female | | E | 1/2 NPT Female | | | | | | | | | | | |
| D | 1/4 NPT Female plugged | | F | 1/2 NPT Female plugged | | | | | | | | | | | |
| Options | | | | | | | | | | | | | | | |
| 1 | Sampling Probe (starting from 1 1/2" Flange Size) | | | | | | | | | | K | Spring loaded floating ball seats (only available for Valve Design 6 and 8) | | | |
| Q | Needle Valve: Stainless Steel Handwheel and Locking Plate Design | | | | | | | | | | T | All head units in OS&Y design | | | |
| R | Needle Valve: Stainless Steel Handwheel and Locking Plate Design incl. Padlock | | | | | | | | | | | | | | |
| V | Injection Probe incl. Check Valve (starting from 1 1/2" Flange Size) – Available for 3/8" Bore Ball Valve only | | | | | | | | | | | | | | |
| W | All Valves lockable incl. Padlock | | | | | | | | | | | | | | |
| | Note: Flange x Thread Design – Position of Secondary Isolation Valve on opposite side of Primary Isolation Valve | | | | | | | | | | | | | | |

*1 Available for Ø 10, Ø 14 and Ø 20.

*2 Specify Option "K" for this Valve Design

*3 Available for Ø 10 only.

*4 Relevant for Flange Sizes ≥ 3" only. For Flange Sizes 1/2" to 2 1/2" Class 1,500 (Code E) to be used.

Wetted Parts according to above mentioned material list are supplied according to NACE MR0175/MR0103 and ISO 15156 and ISO 15156 / ISO 17945 (latest issue).

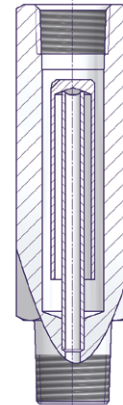
Note: Not every configuration which can be created in the ordering information is feasible / available.

Accessories for Monoflanges and VariAS-Blocks

Gauge Syphons

Designed to replace the pigtail syphon, this compact style provides a thermal barrier between hot vapors and the pressure instrument. This Gauge Syphon reduces also the amount of potential gauge whip on vibrating lines by bringing the gauge closer to the process connection.

Ordering Information see Catalogue 'AS-0201 | Gauge Valves and Pressure Gauge Accessories'.

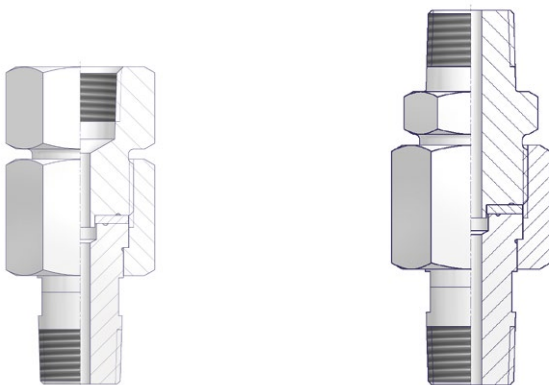


Swivel Gauge Adapters

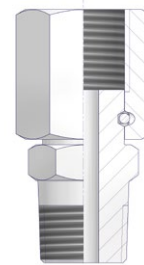
The Swivel Gauge Adapters enable the easy positioning of the pressure instrument in any direction through 360°.

Ordering Information see Catalogue 'AS-2601 | E Series Valves and Manifolds'.

GS Type – For NPT Threads only



GD Type



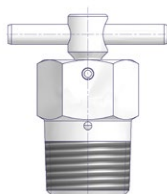
Vent Valves, Pipe Plugs and Pipe Fittings

Ordering Information see Catalogue 'AS-2601 | E Series Valves and Manifolds'.

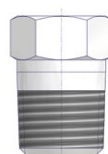
Vent Valve
VS Type



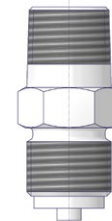
Vent Valve
VT Type



Pipe Plug
PP Type



Hex Nipple
HN Type



Double Block & Bleed Piping Ball Valves – Taurus Series

Taurus Series

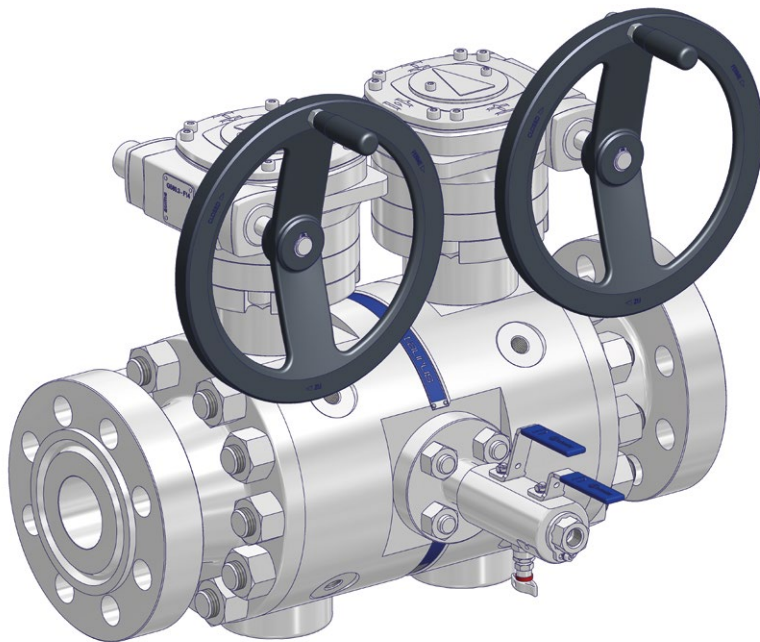
Taurus is our Double Block & Bleed Piping Ball Valves Series. A suitable name, because it stands for process valves, to be used for example on Offshore Platforms, Metering Stations and Compressor Stations, Gas Pipelines, Refineries, etc.!

For more information see our Catalogue 'AS-4201 | Taurus Series'.

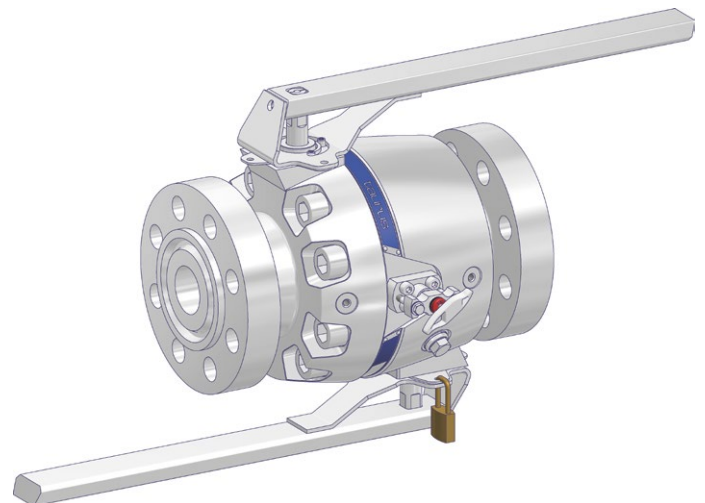
Basically we offer 2 different designs: 2 Piece Design and 3 Piece Design, Both Flanged Style and Side Entry.

Features

- Designed in accordance with Industry Standards i.e. ASME B16.34, ASME B31.3, ASME B16.5, API 6D / ISO 14313
- 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 in accordance with ASME B16.34, API 6D / ISO 14313, ISO 5208
- Manufactured in accordance with the Pressure Equipment Directive
- Ball Seat Material: PTFE, Devlon, PEEK or Metal Seated
- Stem Seal Material: FKM, HNBR – RGD resistant (RGD = Rapid Gas Decompression) or Graphite
- Anti-Blowout Stem Design and Anti-Static Design
- Weld Inlay: Seat pocket and seal area overlay on request
- Bi-Directional: The Taurus Series Floating and Trunnion Ball Valves are bi-directional as standard.
- Painting: The valves can be supplied with any kind of adequate coatings for environmental protection, according to customers specifications.
- Certification and Traceability: Material test certificates 3.1 according to EN 10204. A unique code is stamped on all relevant components linking them with their material and chemical analysis certificates.



3 Piece Design, Flanged Style



2 Piece Design, Flanged Style

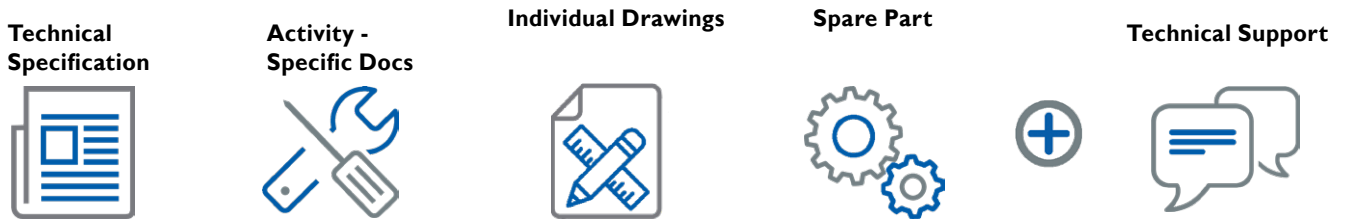
YOUR BENEFITS:

- ✓ Compact Assembly
- ✓ Reduced Weight
- ✓ Reduced Leak Paths
- ✓ Reduced Installation and Maintenance Costs
- ✓ Significant Space Savings

Technical Service Portal - Digital Valve Plate

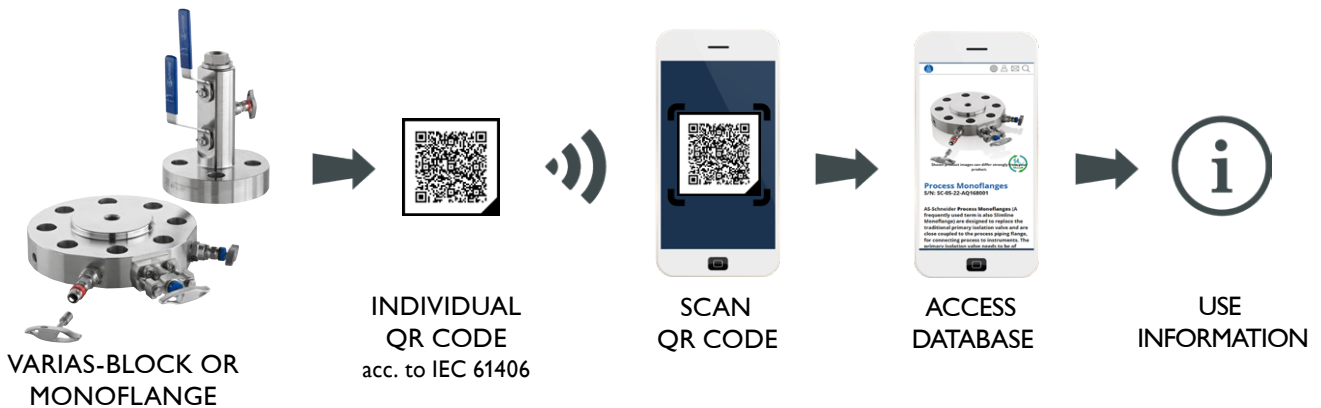
Digital Valve Plate for Valves and Manifolds

The VariAS-Blocks and Monoflanges manufactured by the AS-Schneider Group are now marked with a unique QR-code (acc. to IEC 61406). That QR-code provides easy access to static product information like material properties, certificates and physical dimensions via CAD drawings. It also includes operating and installation instructions or spare parts or replacement information.



How it works

If you have a Monoflange or VariAS-Block with QR code (acc. to IEC 61406) in your hand or installed in your plant, you can now access the product information very easy. The access is straightforward:



Maintenance Benefits

All technically relevant information on the product can always be retrieved directly.

Identification

Easy access to relevant product information on the go.

Error-free assembly

Automated error-free equipment identification at the incoming good inspection & during field installation.

Fast maintenance

Easier and faster maintenance and repair cycles. This is possible due to direct access to spare parts or replacement units.

Open interface

Operators can link this information into their respective asset and operation management system acc. to IEC 61406 and VDI 2770.

Environmental friendly

Environmentally responsible disassembly and disposal. Will be adapted to future EU circular economy requirements.

Check the DVP of your valves and manifolds:
www.qr4v.de

YOUR GLOBAL PARTNER

for Instrumentation and
Double Block & Bleed Valves



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ARMATURENFABRIK FRANZ SCHNEIDER GMBH + CO. KG
World Headquarters
Bahnhofplatz 12, 74226 Nordheim, Germany
Tel: +49 7133 101-0
www.as-schneider.com



ARMATURENFABRIK FRANZ SCHNEIDER SRL
Gradinari 32-38, 100404 Ploiesti
Romania
Tel: +40 244 384 963
www.as-schneider.ro



AS-SCHNEIDER ASIA-PACIFIC PTE. LTD.
970 Toa Payoh North, #02-12/14/15, Singapore 318992,
Singapore
Tel: +65 62 51 39 00
www.as-schneider.sg



AS-SCHNEIDER AMERICA, INC.
17449 Village Green Dr, Houston, TX 77040
United States of America
Tel: +1 281 760 1025
www.as-schneider.com



AS-SCHNEIDER MIDDLE EAST FZE
P.O. Box 18749, Dubai
United Arab Emirates
Tel: +971 4 880 85 75
www.as-schneider.ae



AS-SCHNEIDER INDIA PRIVATE LIMITED
Rathinam Techzone Campus, Eachanari
641021 Coimbatore, Tamil Nadu, India
Tel: +91 999 544 2201
www.as-schneider.com

