

Process to Instrument Valves

Monoflanges and VariAS-Blocks



Introduction

The AS-Schneider Group with its headquarters in Germany is one of the World's Leading Manufacturers of Instrumentation Valves and Manifolds. AS-Schneider offers a large variety of Process to Instrument Valves such as Monoflanges, VariAS-Blocks and Accessories needed for the instrumentation installations globally.

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 from stock or 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.

Monoflange

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Monoflanges

Monoflanges

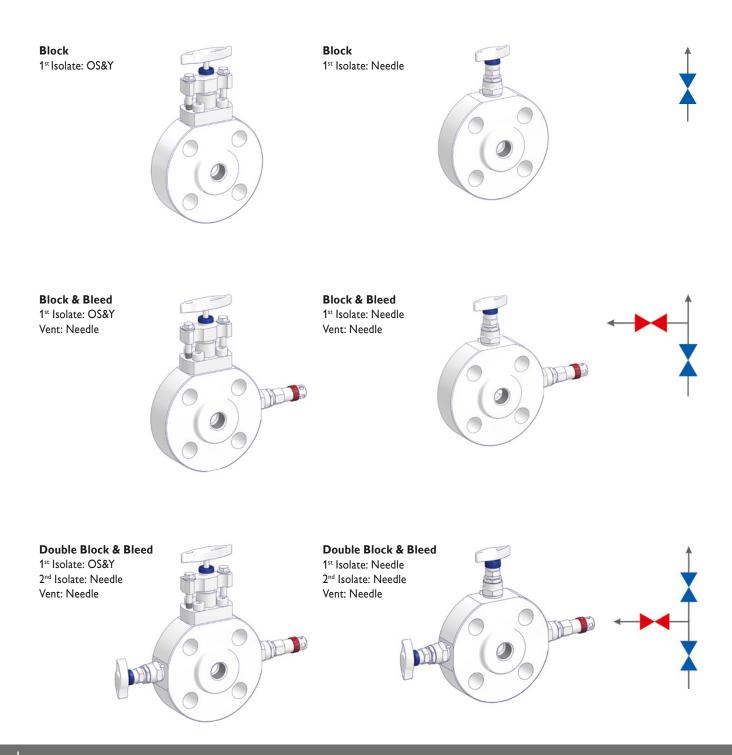
AS-Schneider Monoflanges are designed to replace conventional mutiple-valve installations currently in use for interface with pressure measuring systems. By combining customer specified valves into a single manifold, the number of leak paths is considerably reduced and the mass of the system is lowered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



Monoflanges I General Features

Material Group	AS Material Designation	Material No.	Short Name	Equivalent UNS-No.	Material Grade acc. to ASTM	Monoflanges
Caller Crail	A105				A105	Optional
Carbon Steel	LF2				LF2	Optional
	316 quadruple	1.4401	X5CrNiMo17-12-2	S31600	316	Standard
Austenitic Stainless Steel	certified*	1.4404	X2CrNiMo17-12-2	S31603	316L	Standard
	6Mo	1.4547	X 1CrNiMoCuN20-18-7	S31254		Standard
	Duplex	1.4462	X2CrNiMoN22-5-3	S31803	F51	Standard
Austenitic-Ferritic Stainless Steel	Sur endur lau	1.4410	X2CrNiMoN25.7.4	S32750	F53	Standard
	Superduplex	1.4501	X2CrNiMoCuWN25.7.4	S32760	F55	Optional
	Alloy 400	2.4360	NiCu30Fe	N04400		Standard
Nickel Based Alloys	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

Body Material Options

* 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 / API 607. 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 (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 \rightarrow 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

Fugitive Emission Application:

For Fugitive Emission Applications AS-Schneider is providing TA-Luft and ISO 15848 solutions. For more details see Page 8.

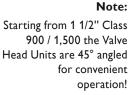
Oxygen Service:

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 Service!

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





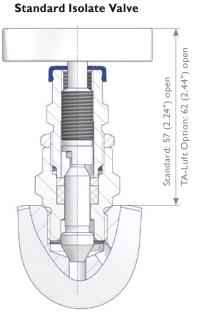
Standard Valve Head Units

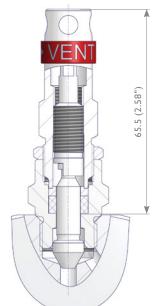
Standard Needle Valves

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 or Reinforced PTFE – TA-Luft Option
- Max. allowable (Working) Pressure (PS): 420 bar (6,092 psi) - 689 bar (10,000 psi) optional
- Anti-Tamper Valve Head Options available
- All Non-wetted Parts in 316 Stainless Steel





Standard Vent Valve

Color Coded Dust Cap For stem thread protection:	For example
Isolate BLUE Vent/Test RED Equalize GREEN	Oxygen Service
Color Coded Options Following options are also color coded	Graphite Packing
below dust cap: • Oxygen Service WHITE • Graphite Packing BLACK • TA-Luft Option MAGENTA	TA-Luft Option

Carbon Steel Stainless Steel Exotic Alloys									
Material / Material No.									
A 105 resp. LF2									
	316 / 3161	Alloy 400	Alloy C-276	Duplex	Superduplex UNS S32750		6Mo		
316 / 316L	5107 5102						0110		
316 / 316L									
			316						
			PTFE or Graph	ite					
			316						
			316						
316									
316									
A4 (316)									
	A 105 resp. LF2	A 105 resp. LF2 316 / 316L	Ma A 105 resp. LF2 316 / 316L 316 / 316L Alloy 400	A 105 resp. LF2 A 105 resp. A 105 resp.	A 105 resp. LF2 A 105 resp. A 105 resp.	A 105 resp. LF2 A 105 / Material / M	A 105 resp. LF2 A 105 / 316L Alloy 400 Alloy C-276 Duplex Superduplex UNS S32750 Alloy 625 316 / 316L 316 / 316L Alloy 400 Alloy C-276 Duplex Superduplex UNS S32750 Alloy 625 Superduplex Superduplex		

Wetted components listed in **bold**.

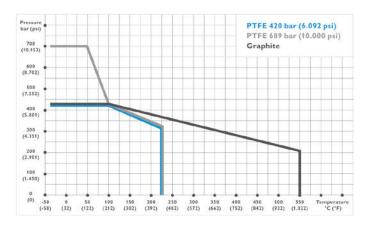
Standard Valve Head Units

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 or Reinforced PTFE – TA-Luft Option
- 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) - 689 bar (10,000 psi) optional
- Anti-Tamper Valve Head Options available
- All Non-wetted Parts in 316 Stainless Steel



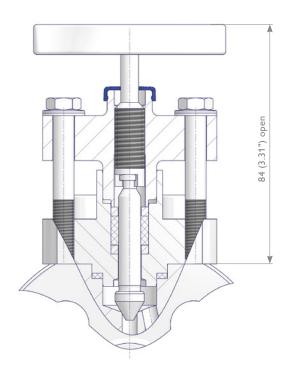
Pressure-Temperature Rating



Packing adjustment may be required during the service life of the valves.



Valves that have not been cycled for a period of time may have a higher initial actuation torque.



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	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
• 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
• MSS SP-61	Pressure Testing of Valves
• MSS SP-99	Instrument 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

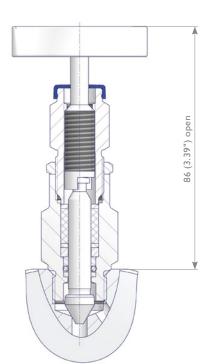
Features

- 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 or Graphite plus FKM O-Ring Needle Seal – 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 2002

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)



OS&Y Needle Valves acc. to ISO 15848

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

Features

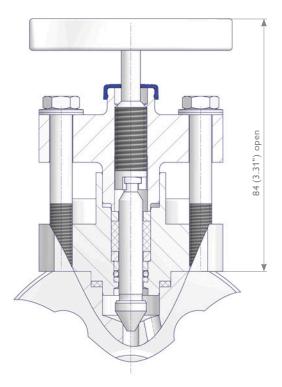
- Integral Valve Seat Metal to metal seated
- Non-rotating Needle
- External Stem Thread Packing below stem threads. Stem threads are protected from process media (non-wetted).
- Stem with Cold Rolled Threads
- Blow-out Proof Needle
- Spring Washers for compensation of thermal expansion
- Back Seat Metal to metal secondary stem seal
- Colour Coded Dust Cap for operating thread protection
- Needle Seal: Standard Packing in PTFE or Graphite plus FKM O-Ring Needle Seal – 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 2002

ISO FE Performance Data

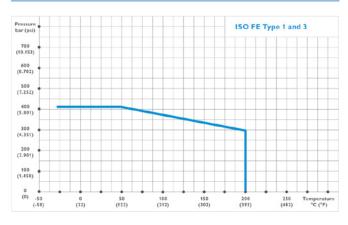
Class A 2,500 cycles / -29°C to 40°C (-20°F to 104°F) Class A 500 cycles / -29°C to 200°C (-20°F to 392°F) Class B 2,500 cycles / -29°C to 200°C (-20°F to 392°F)

ISO FE Type 3:

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



Valve Head Unit Options



Pressure-Temperature Rating – Needle Valve for Fugitive Emission Applications

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.



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.



Monoflanges I Options

Flange x Flange Types

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

Dual Flange Style



RD1 Style For Direct Mounting of Transmitters acc. to EN 61518.



Wafer Style Option S



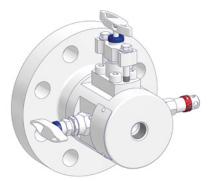
RFB Style For Direct Mounting of Rosemount 2051/3051 Coplanar[™] Pressure Transmitter.



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)



Monoflanges I Options

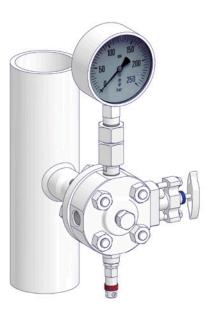
Dual Outlet Types for Direct Mounting to Horizontal or Vertical Pipelines

Vertical Pipeline – Radial Outlet

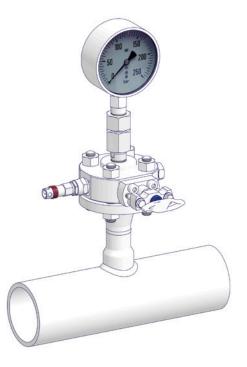
Process Monoflange (e.g. Block & Bleed) Swivel Gauge Adapter installed on outlet.

Horizontal Pipeline – Axial Outlet

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



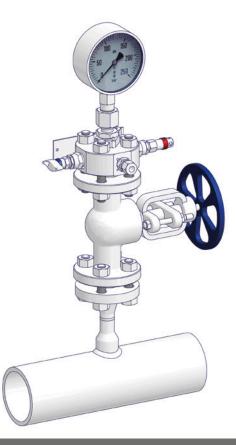
Vertical Pipeline – Radial Outlet Instrument Monoflange (SM Type) with an Integral Swivel Gauge Adapter. For more information see Catalogue 'AS-3601 I Modular Mounting System'.



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'.





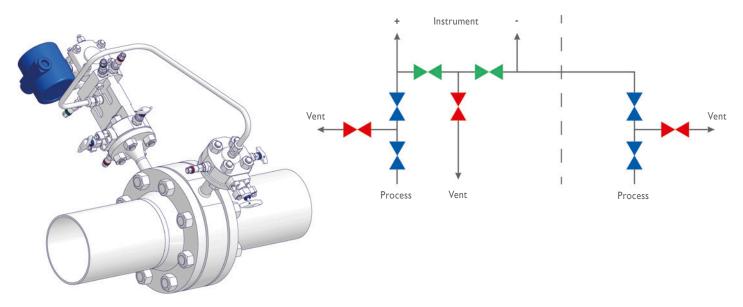
Monoflanges I Assemblies

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:

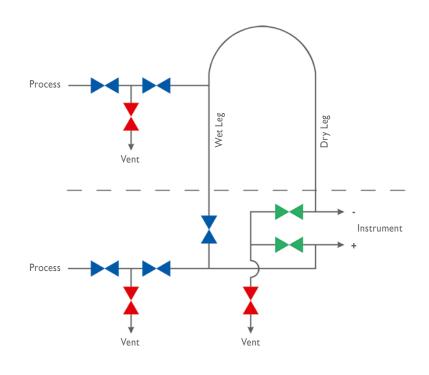
- 1 x Process Monoflange Type V, e.g. DB&B with an Integrated
- 3 Valve Manifold (High Pressure Side +)
- 1 x Process Monoflange, e.g. DB&B (Low Pressure Side -)



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 I Weights and Dimensions

Flange x Thread

Process Monoflanges – Weights and Dimensions

		I	Dimensions (r				
			2	x	Approx. Weight		
Flange Size (in)	Flange Class	ØD	Flange	Facing	(kg)		
			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 I Weights and Dimensions

Instrument Monoflanges - Weights and Dimensions



Flange x Thread

			Dimensions (r	nm)		
			2	X	Approx. Weight	
Flange Size (in)	Flange Class	ØD	Flang	e Face	(kg)	
			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 I Ordering Information

Ordering Information

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 |
| 1" RTJ | | | NU | 3" RF

 | QP | DN25 C (tongue) |

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 |
| 1 1/2" RF | | | NW | 3" RTJ

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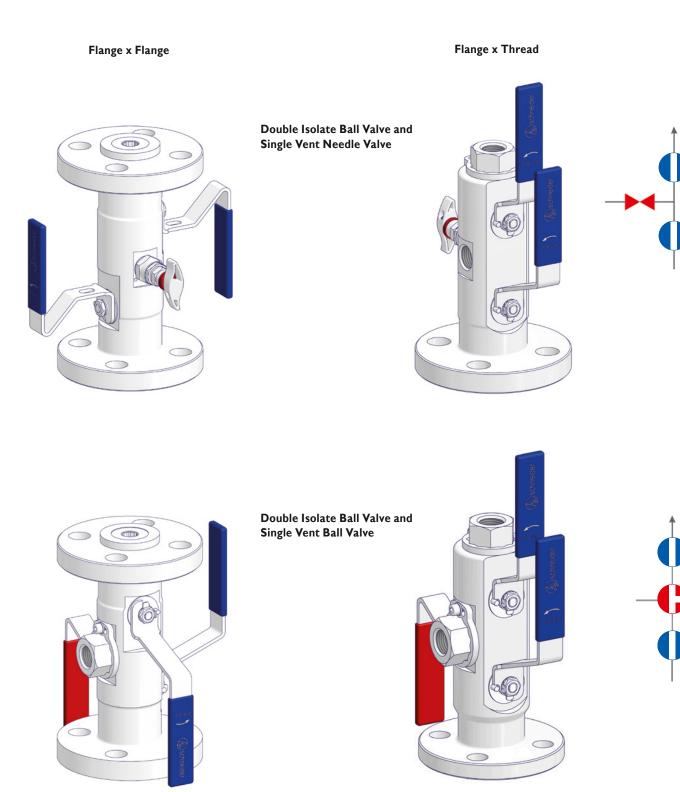
Wetted Parts according to above mentioned material list are supplied according to NACE MR0175/MR0103 and ISO 15156 (latest issue). Note: Not every configuration which can be created in the ordering information is feasible / available.

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.



Material Group	AS Material Designation	Material No.	Short Name	Equivalent UNS-No.	Material Grade acc. to ASTM	VariAS-Blocks
	A105				A105	Optional
Carbon Steel	LF2				LF2	Optional
	316 quadruple	1.4401	X5CrNiMo17-12-2	S31600	316	Standard
Austenitic Stainless Steel	certified*	1.4404	X2CrNiMo17-12-2	S31603	316L	Standard
Steel	6Mo	1.4547	X 1CrNiMoCuN20-18-7	S31254		Standard
	Duplex	1.4462	X2CrNiMoN22-5-3	S31803	F51	Standard
Austenitic-Ferritic Stainless Steel	Currendors law	1.4410	X2CrNiMoN25.7.4	S32750	F53	Standard
Stanless Steel	Superduplex	1.4501	X2CrNiMoCuWN25.7.4	S32760	F55	Optional
	Alloy 400	2.4360	NiCu30Fe	N04400		Standard
Nickel Based Alloys	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

Body Material Options

* 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 Forged Body
- Outlet Connection 1/2 NPT Female or Flange Connection acc. to Process Connection
- Vent Connection 1/2 NPT Female
- \bullet 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 (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 \rightarrow 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
- Needle / Needle / Needle Design
- O-Ring and Lip Seal Stem Seal for 14 mm and 20 mm Bore Size
- 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

Fugitive Emission Application:

For Fugitive Emission Applications AS-Schneider is providing TA-Luft and ISO 15848 solutions. For more details please contact the factory.

Oxygen Service:

On request.

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

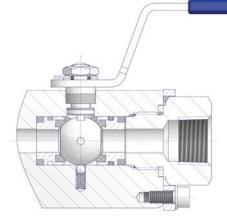
Standard Valve Designs for VariAS-Blocks

Ball Valves - Bore Size 10 mm (0.39")

Standard Design – Stem Seal: Packing

Features

- Floating Ball Design
- Ball Valve Seat: Reinforced PTFE PEEK optional
- Ball Valve Seats are totally enclosed in seat carrier
- \bullet Seat Seals: FKM, RGD resistant O-Ring and Graphite or PTFE
- \bullet 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 Seals only
- Positive Stop Pins
- All Non-wetted Parts in 316 Stainless Steel
- Lockable Handle with Color Coded Handle Grip
- Isolate BLUE I Vent RED



Composition	Carbon Steel	Stainless Steel			Exotic	Alloys			
Components	Material / Material No.								
Body	A 405 L 52					UNS \$32750			
Body End Connector	A 105 resp. LF2			Alloy C-276					
Ball		316 / 316L	Alloy 400		Duplex		Alloy 625	6Mo	
Stem	316 / 316L								
Seat Carrier									
Ball Seat		Reinforced PTFE or PEEK							
Carrier Seals			FKM / C	Graphite or FM	KM / PTFE				
Primary Stem Seal			I	Reinforced PT	FE				
Packing			P	TFE or Graph	nite				
Gland				316					
Locking Plate	316								
Handle	316								
Handle Grip	Vinyl								
Stop Pin				A4					

Wetted components listed in **bold**.

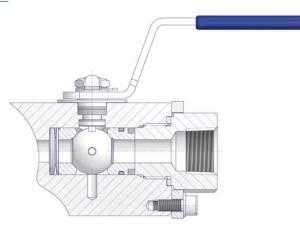
VariAS-Blocks I Options

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
- \bullet Fire Safe Tested acc. to ISO 10497 / API 607
- Positive Stop Pins
- All Non-wetted Parts in 316 Stainless Steel
- Lockable Handle with Color Coded Handle Grip
- Isolate BLUE I Vent RED



Components	Carbon Steel Stainless Steel					
Components	Material / Material No.					
Body	4.405					
Body End Connector	A 105 resp. LF2	316 / 316L				
Stem	316 / 316L					
Ball	31	6				
Ball Seat	TCC C	Coated				
Seat Seals	FKM / Graphite					
Primary Stem Seal	Reinforced PTFE					
Packing	Graphite					
Beleville Springs	Incon	el 718				
Gland	31	6				
Locking Plate	31	6				
Handle	31	6				
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

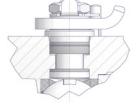
Features

- Floating Ball Design
- Ball Valve Seat: PEEK Reinforced PTFE optional (with higher operating torque)
- Self Venting Ball Seats
- Stem Seal: Standard Packing in PTFE and Graphite, Lip Seal and FKM O-Ring Steam Seals optional
- 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 Seals only
- Positive Stop Pins
- All Non-wetted Parts in 316 Stainless Steel
- Lockable Handle with Color Coded Handle Grip
- Isolate BLUE I Vent RED

Optional Design – Stem Seal: Lip Seal

Features

- Spring Energized PTFE Seal, Spring Material Inconel X-750
- Reinforced PTFE Backup Ring
- Max. allowable (Working) Pressure (PS): 420 bar (6,092 psi) with PEEK Seats and 150 bar (2,175 psi) with RPTFE Seats

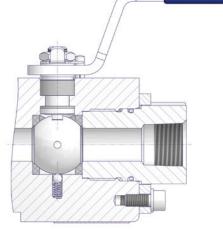


Optional Design – Stem Seal: FKM O-Ring

Features

- FKM RGD resistant O-Ring for Stem Seal
- Reinforced PTFE Backup Ring
- Max. allowable (Working) Pressure (PS): 420 bar (6,092 psi) with PEEK Seats and 150 bar (2,175 psi) with RPTFE Seats





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										
Components			Ma	terial / Materia	al No.						
Body	A 105 mars 1 52										
Body End Connector	A 105 resp. LF2	244 / 2441	AU 400				AU (25				
Ball	217 / 2171	316 / 316L	Alloy 400	Alloy C-276	Duplex	UNS 532750	Alloy 625	61*10			
Stem											
Ball Seat	Reinforced PTFE or PEEK										
Primary Stem Seal	Reinforced PTFE										
Components A nor resp. LF2 A nor											
O-Ring	$\frac{1}{10000000000000000000000000000000000$										
Gland		Material / Material No. Sp. LF2 316 / 316L Alloy 400 Alloy C-276 Duplex UNS S3275 B16L Reinforced PTFE or PEEK Reinforced PTFE PTFE or Graphite FKM 316 316 316 316 316 316 Vinyl									
Locking Plate				316							
Handle				316							
Handle Grip				Vinyl							
Stop Pin				A4							

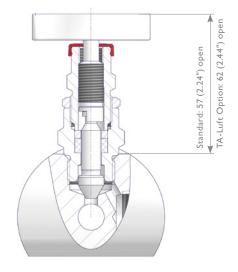
Wetted components listed in **bold**.

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



Fugitive Emission Application Designs for VariAS-Blocks

Valves acc. to ISO 15848

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.

Standard Features

- Optimized Needle / Stem Seal
- Special Treated Gland for Long Service Life
- Glands adapted to Stem Seal
- Tested and applicable for use up to 200°C (392°F)
- Production Test according to ISO 15848-2 available on request

YOUR BENEFITS:

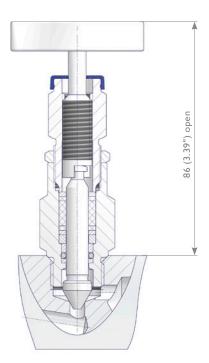
- ✓ Reliability due to Type Testing and Certification by third party inspection.
- ✓ Several Stem Seals meet the requirement of ISO 15848-1, Edition 2006. These are more stringent than these of the current Edition 2015.
- ✓ Also Needle Valves are tested and certified according to ISO 15848-1.
- ✓ Graphite 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 2002.

Needle Valves acc. to ISO 15848

Screwed Bonnet – Type 1 O-Ring Needle Seal + Graphite Packing Type 3 PTFE 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 or Graphite plus FKM O-Ring Needle Seal RGD resistant (RGD = Rapid Gas Decompression)
- Max. allowable (Working) Pressure (PS): 420 bar (6,092 psi)
- Anti-Tamper Valve Head Options available on request
- All Non-wetted Parts in 316 Stainless Steel
- Types also comply with the requirements of TA-Luft 2002



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)**

			Tightness Class							
Ball Seat	Packing Ball Valve	Packing Needle Valve	C01 205 Cycles*	C02 1,500 Cycles	C03 2,500 Cycles					
	PTFE	PTFE / Reinforced PTFE		Class A	Class B					
Reinforced PTFE PEEK Reinforced PTEE	Graphite	Graphite + FKM O-Ring		Class B						
DEEN	PTFE	Packing Needle Valve CO1 205 Cycles* CO2 1,500 Cycles CO3 2,500 Cycles E PTFE / Reinforced PTFE Class A Class B Shite Graphite + FKM O-Ring Class A Class B Shite Graphite + FKM O-Ring Class A Class B Shite Graphite + FKM O-Ring Class A Class B Shite Graphite + FKM O-Ring Class A Class B Shite Graphite + FKM O-Ring Class A Class A Shite Graphite + FKM O-Ring Class A Class A Shite Graphite + FKM O-Ring Class A Class A Shite Graphite + FKM O-Ring Class A Class A Shite Graphite + FKM O-Ring Class A Class A Shite Graphite + FKM O-Ring Class A Class A Shite Graphite + FKM O-Ring Class A Class A Shite Graphite + FKM O-Ring Class A Class A								
PEEK Reinforced PTFE	Graphite	Graphite + FKM O-Ring		Class B						
Reinforced PTFE	Lip Seal		Class A							
PEEK	Lip Seal	Craphite + EKM O Bing		Chara A						
Reinforced PTFE	O-Ring			Class A						
PEEK										
Metal Seated	Graphite	Graphite + FKM O-Ring		Class B	2,500 Cycles Class B 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 are reduced from Edition 2006 to 2015 by the factor of 10.

- Numbers of cycles are 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)

			Tightness Class							
Ball Seat	Packing Ball Valve	Packing Needle Valve	C01 205 Cycles*	Tightness ClassC02C031,500 Cycles2,500 CyclesClass BAClass BA						
	PTFE	PTFE / Reinforced PTFE								
Reinforced PTFE	Graphite	Graphite + FKM O-Ring	king Needle Valve CO1 205 Cycles* CO2 L,500 Cycles CO3 2,500 Cycles Class B Class B Class B Class B Phite + FKM O-Ring Phite + FKM O-Ring							
DEF//	PTFE	PTFE / Reinforced PTFE								
PEEK	Graphite	Graphite + FKM O-Ring		Class B	0					
Reinforced PTFE	Lin Sool		Class B		On request					
PEEK	Lip Seal	Graphita + EKM O Ping								
Reinforced PTFE	O-Ring	Graphite + TKH O-King								
PEEK										
Metal Seated	Graphite	Graphite + FKM O-Ring		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 are reduced from Edition 2006 to 2015 by the factor of 10.

- Numbers of cycles are 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-Blocks I Options

Block & Bleed Types

Features one ball valve and a needle valve for venting.

Flange x Thread





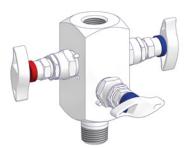
Thread x Thread

Double Block & Bleed Needle Valve Options

Features two independently operable needle valves for isolation and a needle valve for venting.

Manifold Type C

Thread x Thread (see Catalogue 'AS-2601 I E Series Valves and Manifolds')

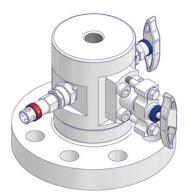


10 mm Bore Size

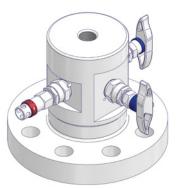
The max. allowable (Working) Pressure (PS) is limited to 420 bar (6,092 psi). For more information see Ordering Information – Page 15.

Process Monoflange

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



Instrument Monoflange Double Block & Bleed (Needle / Needle / Needle)



VariAS-Block for Injection and Sampling Applications

VariAS-Block for Injection and Sampling Applications

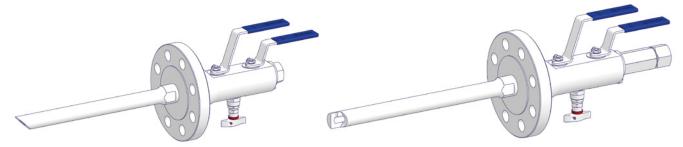
All options and configurations shown within the standard VariAS-Block Range can be offered by the addition of a customized injection probe respectively sampling probe which extends from the pipe flange into the process stream. The probe is designed as a one piece solution with a fine-turned surface to 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

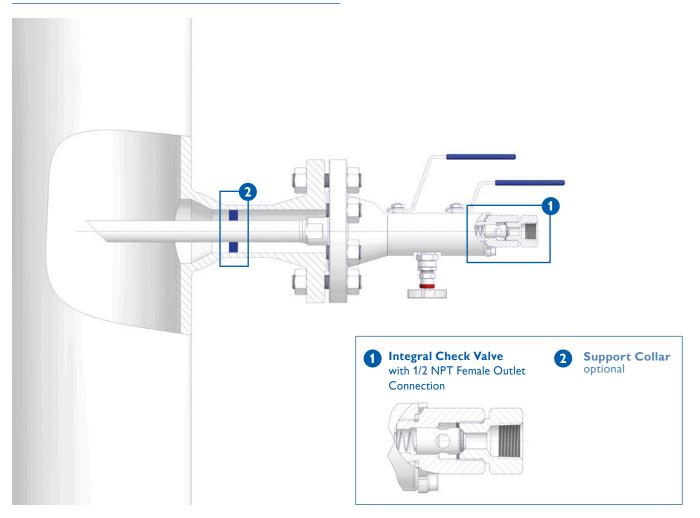
This design has been developed to remove a sample directly from the process stream at full system pressure.

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.

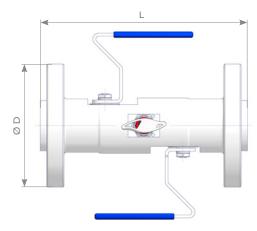


Installed Injection VariAS-Block incl. Check Valve



VariAS-Blocks I Weights and Dimensions

VariAS-Blocks – Weights and Dimensions

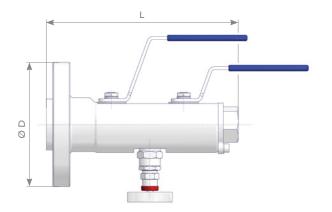


Flange x Flange

Flange Size (in) 1/2 3/4			Bore	Size 10 m	m (0.39")	Bore	Size 14 m	ım (0.55")	Bore Size 20 mm (0.79")				
		ØD	L (mm) Flange Facing RF RTJ			L (r	nm)		L (n				
	Flange Class	(mm)			Approx. Weight (kg)	Flange Facing RF RTJ		Approx. Weight (kg)	Flange Facing RF RTJ		Approx. Weight (kg)		
	150	88.9	199.2		3								
	300	95.3	199.2	207.2	4								
1/2	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								
	150	98.6	199.2		4	210.0		5					
	300	117.3	199.2	208.8	5	210.0	242.0	7					
3/4	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					
	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		
1	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		
	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		
1 1/2	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		
	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		
2	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		
	150	177.8							200.0	200.0	16		
	300	190.5							200.0	200.0	18		
2 1/2	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		
	150	190.5							200.0	200.0	18		
	300	209.5							200.0	200.0	22		
2	600	209.5							237.0	237.0	25		
3	900	241.3							287.0	287.0	37		
2	1,500	266.7							335.0	335.0	52		
	2,500	304.8							401.0	406.0	85		

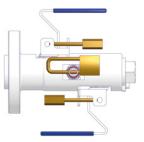
VariAS-Blocks I Weights and Dimensions

VariAS-Blocks – Weights and Dimensions



Lockable Valves – Option W

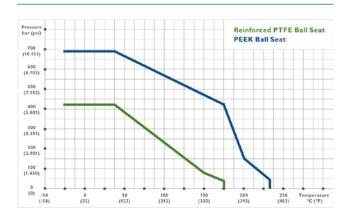
All Valves with Option W (Lockable Valves) have Secondary Isolation Valve on opposite side of Primary Isolation Valve.



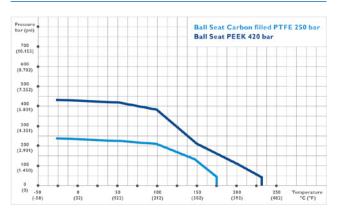
Flange x Thread

Flange Size (in)			Bore	Size 10 m	m (0.39")	Bore	e Size 14 m	ım (0.55")	Bore Size 20 mm (0.79")			
		ØD	L (mm)			L (r	nm)		L (n			
	Flange Class	(mm)	Flange	Facing	Approx. Weight (kg)	Flange	Facing	Approx. Weight (kg)	Flange Facing		Approx. Weight (kg)	
			RF	RTJ		RF	RTJ		RF	RTJ		
	150	88.9	187.2		3							
	300	95.3	187.2	191.2	3							
1/2	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							
	150	98.6	187.2		3	192.5		5				
	300	117.3	187.2	192.0	4	192.5	208.5	5				
3/4	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				
3/4 1 1 1/2	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	
1	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	
	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	
1 1/2	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	
	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	
2	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	
	150	177.8							207.0	207.0	12	
	300	190.5							207.0	207.0	13	
2 1/2	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	
	150	190.5							207.0	207.0	13	
	300	209.5							207.0	207.0	15	
2	600	209.5							223.0	223.0	17	
3	900	241.3							242.0	242.0	20	
3	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 14 mm (0.55") Bore Size and 20 mm (0.79") Bore Size



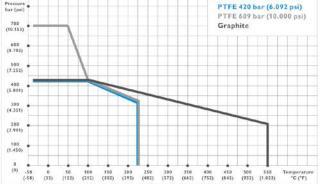
Pressure-Temperature Rating – Metal Seated Ball Valve (10 mm [0.39"] Bore Size)

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).





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.



Packing adjustment may be required during the service life of the valves.

Valves that have not been cycled for a period of time may have a higher initial actuation torque.

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	Petroleum and Natural Gas Industries – Materials for use in H2S-containing Environ- ments in Oil and Gas Production
• API 598	Valve Inspection and Testing
• ISO 5208	Industrial Valves – Pressure Testing of Metallic Valves

• 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
• MSS SP-61	Pressure Testing of Valves
• MSS SP-99	Instrument Valves

Pressure-Temperature Rating – Needle Valve

Pressure-Temperature Rating -

Soft Seated Ball Valve 10 mm (0.39") Bore Size

VariAS-Blocks I Ordering Information

Ordering Information

								1	2	3	4	5	6	7	8	9	10	11	12	13	ù
								D	В	2	-	Ν	G	С	L	Ν	4	-	S	С	i.
																					l
	VariAS-Blocks																				
	Block & Bleed																				
	Double Block &	Bleed																			
						3/4"															
	Seals - Standar	d Valv	e Design			Seal	s – Fugitive Emission	Application	Design												
			-			ecu			2 c5.g.i												
1	PTFE	Bieed 0.39") Bore Ball Valve (Ball / Ball) 0.39") Bore Ball Valve (Ball / Needle / Ball) D.39") Bore Ball Valve (Ball / Needle / Ball) > Flange Si 0.39") Bore Ball Valve (Ball / Needle / Ball) > Flange Si 0.79") Bore Ball Valve (Ball / Needle / Ball) > Flange Si 0.79") Bore Ball Valve (Ball / Needle / Ball) > Flange Si 0.79") Bore Ball Valve (Ball / Needle / Ball) > Flange Si 0.79") Bore Ball Valve (Ball / Needle / Ball) > Flange Si 0.79") Bore Ball Valve (Ball / Needle / Ball) > Flange Si 0.79") Bore Ball Valve (Ball / Needle / Ball) > Flange Si 0.79") Bore Ball Valve (Ball / Needle / Ball) > Flange Si 0.79") Bore Ball Valve (Ball / Needle / Ball) > Flange Si 0.79") Bore Ball Valve (Ball / Needle / Ball) > Flange Si 0.79") Bore Ball Valve (Ball / Needle / Ball) > Flange Si (Body Seedle Needle / Ball / Seetle Needle / Ball) > Flange Si (Body Seedle Needle Needle Advection of Secondary Isolation of Second	1	D	Graphite		PTFE*1														
	Graphite			PTFE*	1	D Graphite Reinfor E PTFE Reinfor F PTFE PEEK*1 G Graphite PEEK*1 H Lip Seal + Graphite Reinfor I Lip Seal + Graphite PEEK*2 J O-Ring + Graphite Reinfor K O-Ring + Graphite PEEK*2			PTFE*1												
		PEEK*1 F PTFE PEEK*1 PEEK*1 G G Graphite PEEK*1 H Lip Seal + Graphite Reinford I Lip Seal + Graphite PEEK*2 J O-Ring + Graphite Reinford																			
4 Graphite						н	Lip Seal + Graphite		TFE*2												
						1															
Process Connection																					
						М	Graphite	Metal Seate	1*3												
D B 2 - N G C L N 4 - 5 C VeriAt-Stack Umage 2012 State 34 Weight 2401 Other 100 Weight 2010 State 34 Weight 2401 Other 100 Weight 2010 State 34 Weight 2401 Sta																					
	-																				
						LIN	M Graphite Metal Seated*3 Thread N Male NPT Female NPT Thread Size 4 1/2"														
				NW	3" RTJ																
٩G																					
А		ME Flange Size Thread ''RF NJ 1" RTJ NR 2 1/2" RF JN Male NF ''RF NK 1 1/2" RF NT 2 1/2" RTJ LN Female I ''RF NM 1 1/2" RTJ NU 3" RF LN Female I ''RF NM 1 1/2" RTJ NU 3" RTJ I'' I'' ''RF NQ 2" RTJ VU 3" RTJ I'' I'' occess Connection (continued) 0 900*4 4 1/2" 6 D 900*4 4 1/2" 6 3/4" O E 1,500 - 6 3/4" ME Flange Size Thread 6 3/4" 1/2" ''RF NJ 1" RTJ NR 2 1/2" RF LG Female N ''RT NK 1 1/2" RF NT 2 1/2" RF LG Female N																			
В	ASME Flange Class 150 D 900 ³⁴ 300 E 1,500																				
С	600	F	2,500																		
	Outlet Connect	ion																			
14			1" PTI	NIR	2 1/2" PE	16															
						LN	Female NPT														
				NW	3" RTJ																
			unitada)				Thread Size														
	150	D	2" RTJ sontinued) 900**																		
			2,000			Ū															
C	I" RF NQ 2" RTJ Image: Class state			V	Alloy 625 UNS N0662	;															
		E Flange Size NI 1" RT J NR 2 1/2" RF LG Female G (EN837-1) TJ NK 1 1/2" RF NT 2 1/2" RTJ JN Male NPT F NM 1 1/2" RTJ NU 3" RF LN Female NPT TJ NN 2" RTJ NU 3" RF LN Female NPT NQ 2" RTJ NV 3" RTJ 1/2" C Female NPT Thread Size Thread Size E 1,500 4 1/2" E 1,500 4 1/2" K 0 90°4 4 1/2" E 1,500 4 1/2" 6 Alloy 625 UNS N0(0) 8 1" 6 3/4" Material x UNS S31803 L Alloy 400 UNS N04400 D Super Duplex UNS S Connection I.4401 / 1.4404 / 316 / 316 L B 6Mo UNS S31254																			
Н	Alloy C-276 UNS	N1027	6 S 1.44	01 / 1.4	4404 / 316 / 316L	В	6Mo UNS \$31254														
	Vent Connectio	n																			
		lugged																			
	Options																				
							Padlack														
								Valve only													
	All Valves lockable	e incl. P	adlock	-	-																
W	All Valves lockable	e incl. P iread D	adlock esign – Positior	-	-				ve												

*1 Available for Ø 10, Ø 14 and Ø 20.
*2 Available for Ø 14 and Ø 20.
*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 (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 I Gauge Valves and Pressure Gauge Accessories'.

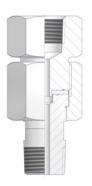


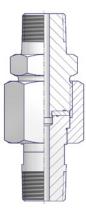
Swivel Gauge Adapters

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

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

Vent Valve VS Type





Vent Valve

VT Type

Pipe Plug PP Type



Hex Nipple HN Type



Double Block & Bleed Pipeline Ball Valves – Taurus Series

Taurus Series

Taurus is the strong name of our Double Block & Bleed Pipeline 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 I 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

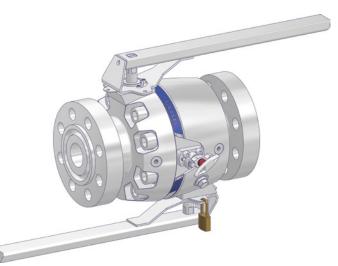
- Stem Seal Material: FKM, HNBR RGD resistant (RGD = Rapid Gas Decompression) or Graphite
- Anti-Blowout Stem Design and Anti-Static Design
- Weld Inlay: Seat pocket and seal area overlay on request
- Bi-Directional: The Taurus Series Floating and Trunnion Ball Valves are bi-directional as standard.
- 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

YOUR BENEFITS:

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



2 Piece Design, Flanged Style



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