



schneider

Tailored to Your Business



Instrumentation Products

Monoflanges & VariAS-Blocks

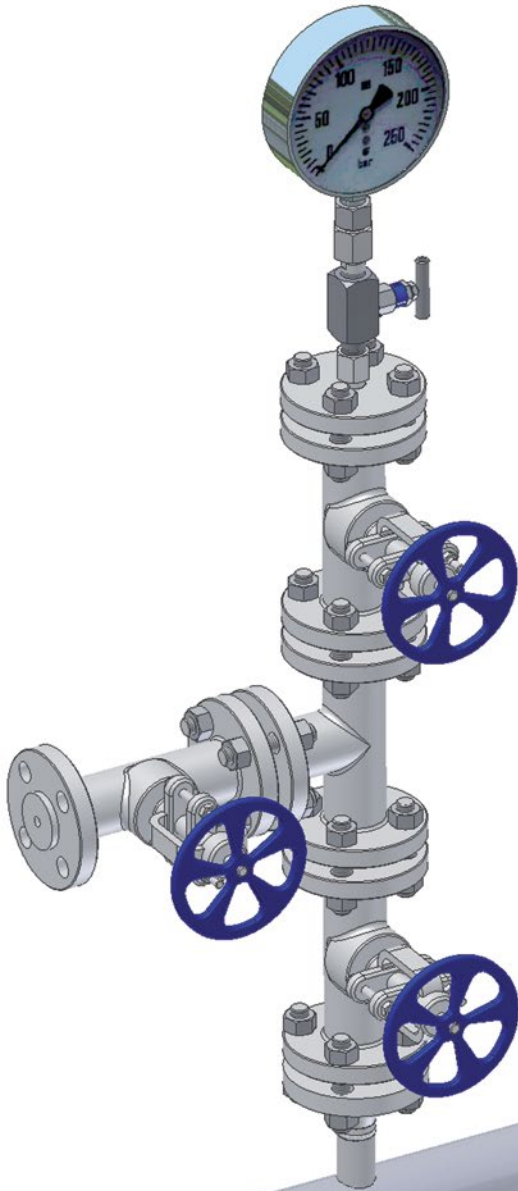


Introduction

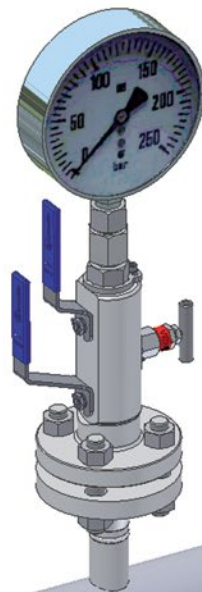
Introduction

The AS-Schneider Monoflanges and VariAS-Blocks 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

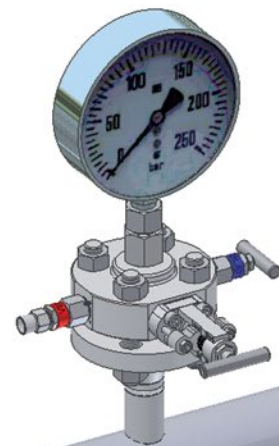
reduced potential leak points and safer hook-up. This more compact and efficient arrangement reduces not only pipework vibration and associated stress but also installation and maintenance costs.



Conventional



AS-Schneider
VariAS-Block



AS-Schneider
Monoflange

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Monoflange Series

Monoflange Series

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

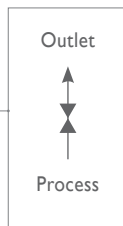
Designed to replace the traditional primary isolation valve, the Primary Isolation Valve (OS&Y bolted bonnet) incorporates a primary isolate piping valve combined with instrument double block & bleed functions.

Instrument Monoflanges

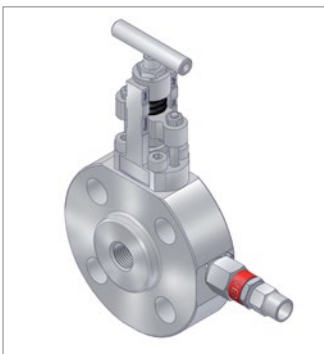
Instrument Monoflanges work in conjunction with a pre-installed primary valve to provide a compact instrument block and bleed valve or are used when primary valves with an OS&Y bolted bonnet are not required.



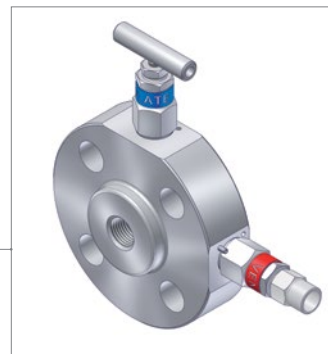
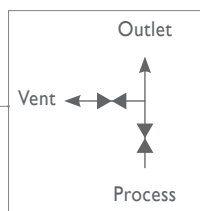
Block
1st Isolate: OS&Y



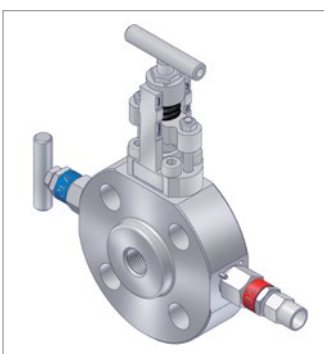
Block
1st Isolate: Needle



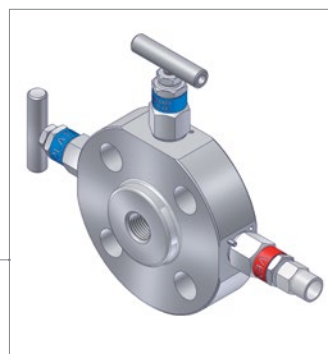
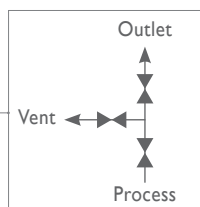
Block & Bleed
1st Isolate: OS&Y
Vent: Needle



Block & Bleed
1st Isolate: Needle
Vent: Needle



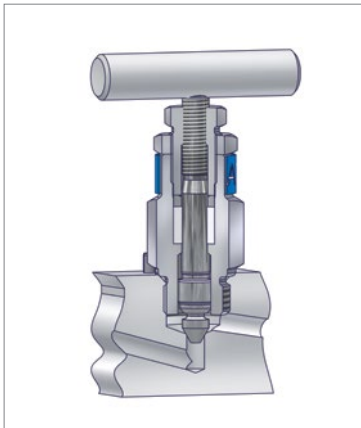
Double Block & Bleed
1st Isolate: OS&Y
2nd Isolate: Needle
Vent: Needle



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

Standard Features

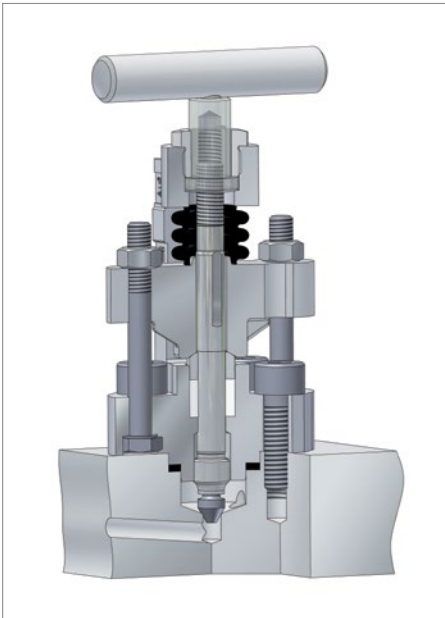
- ASME B16.5 flange connections
Flange size 1/2" to 2" (DN15 to DN50)
Flange Class 150 to 2.500
- Outlet connection 1/2 NPT female
- Vent connection 1/4 NPT female
- Seat metal/metal
- Packing PTFE or graphite
- Material of construction 316/316L
- Vent valve with anti-tamper head unit incl. T-handle
- Fire safe tested to ISO 10497/API 607
- Pressure tested to EN 12266



Screwed Bonnet

Optional Features

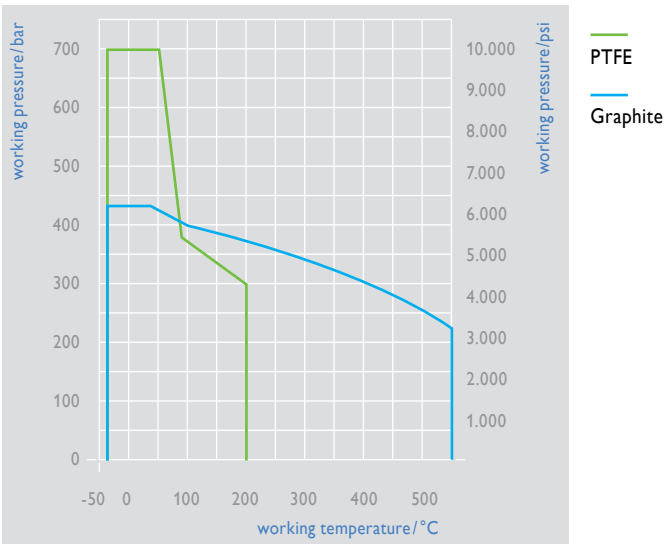
- API flange connections (up to 10.000 psi)
- EN 1092-1 flange connections
- FPM O-ring stem sealing
- Materials of construction including A350 LF2, A105, Duplex, Super Duplex, Monel®, Hastelloy®, 6Mo alloys, Incoloy®
- Anti-tamper head units (also lockable) for all vaves
- Pressure tested to API 598
- NACE MR0175/ISO 15156 compliant materials
- Pressure test certificates and material certification
- Bellows sealed valve head units
- Swivel gauge connections including 1/2 NPT female and G 1/2 female (1/2" BSPP) threads, see also Accessories page 19
- Type Tested Design according to ISO 15848-1 and Production Test according to ISO 15848-2 on request
- According to TA-Luft
- Oxygen Service



OS&Y Bolted Bonnet

If you don't find your option please contact us.

Pressure-Temperature Rating Needle Valve



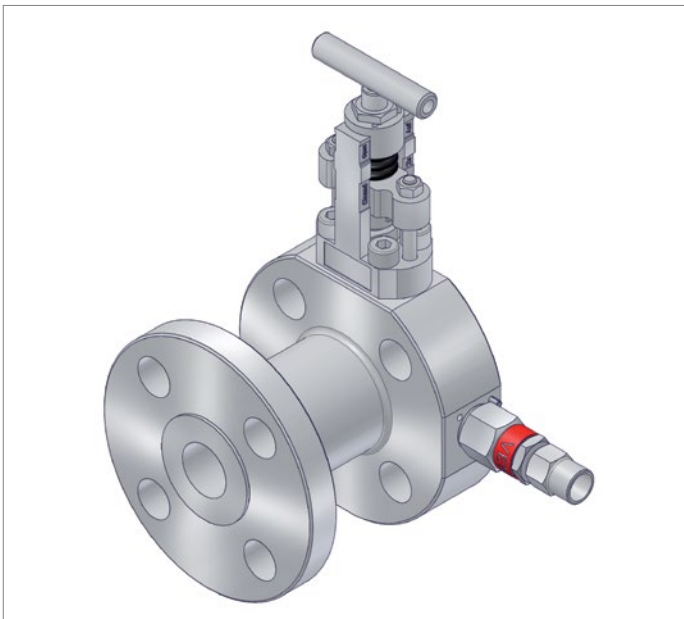
Note:
Starting from 1 1/2" Class 900/1500 the valve head units are 45° angled for convenient operation:



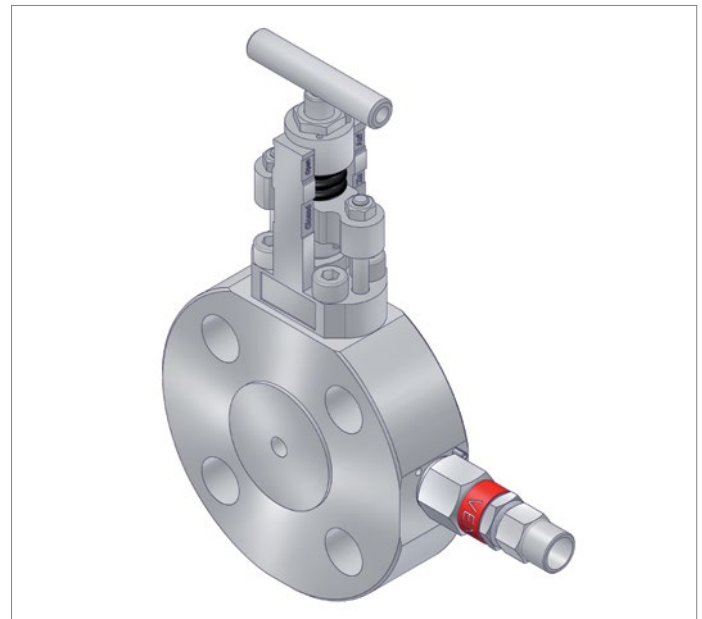
Monoflange | Options

Flange x Flange Types

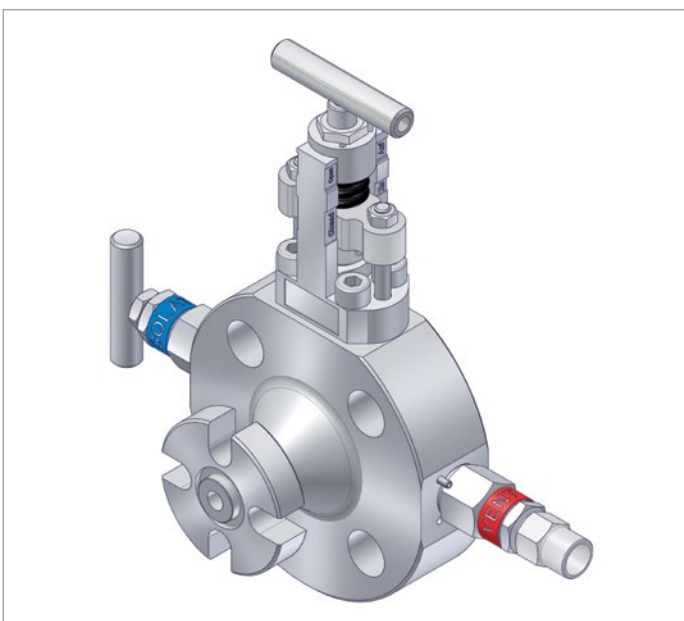
- Dual Flange Style
- Wafer Style
- RD1 Style
- RFB Style



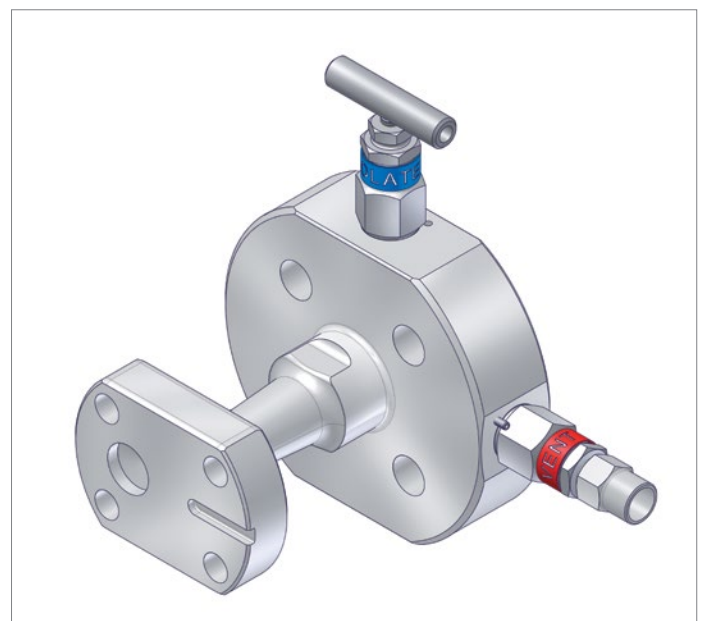
Dual Flange Style



Wafer Style (option S)



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



RFB Style
For Direct Mounting of Rosemount Transmitter Model 3051

**Dual Outlet Types for Direct Mounting
to Horizontal or Vertical Pipe Lines**

Vertical Pipe Line, Radial Outlet

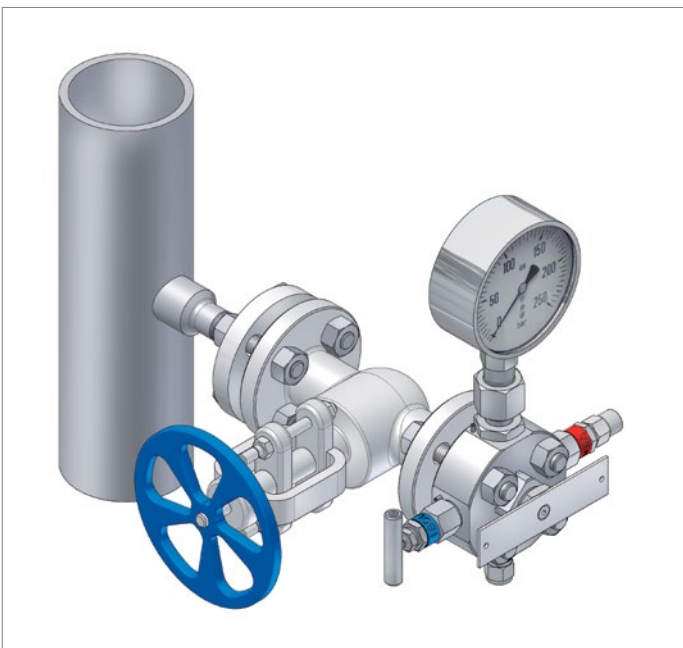


Horizontal Pipe Line, Axial Outlet



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

Vertical Pipe Line, Radial Outlet



Horizontal Pipe Line, Axial Outlet

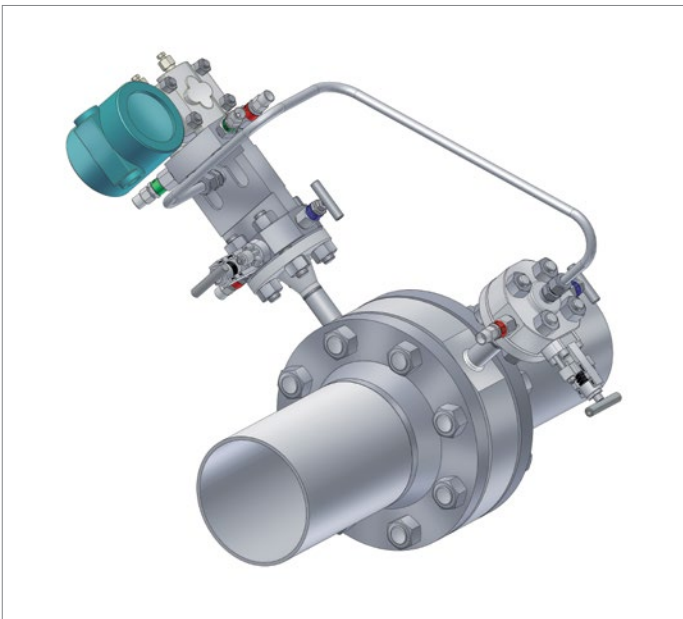


Instrument Monoflange (SM Type) with an integral Swivel Gauge
Adaptor. For more information see Modular Mounting System
Catalogue AS-3601.

Monoflange | Assemblies

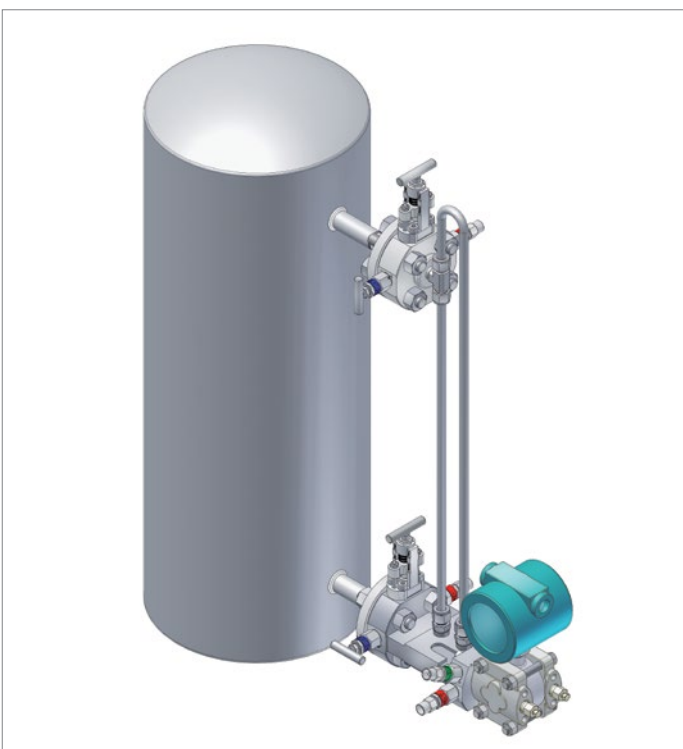
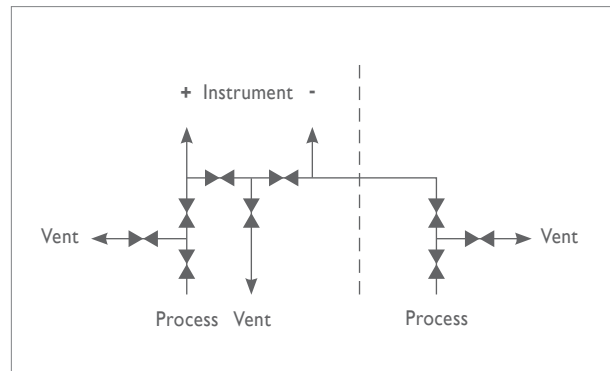
Monoflange Assemblies

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.



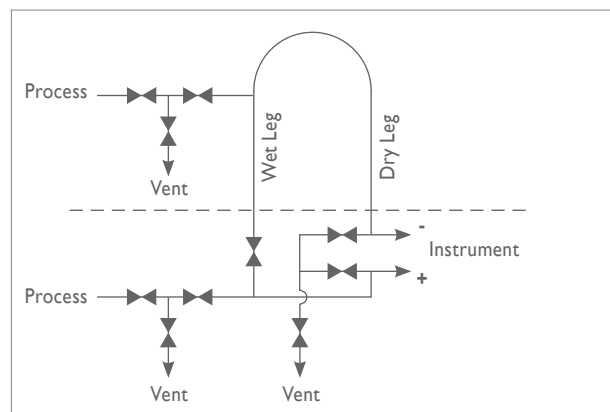
Flow Assembly consisting of:

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

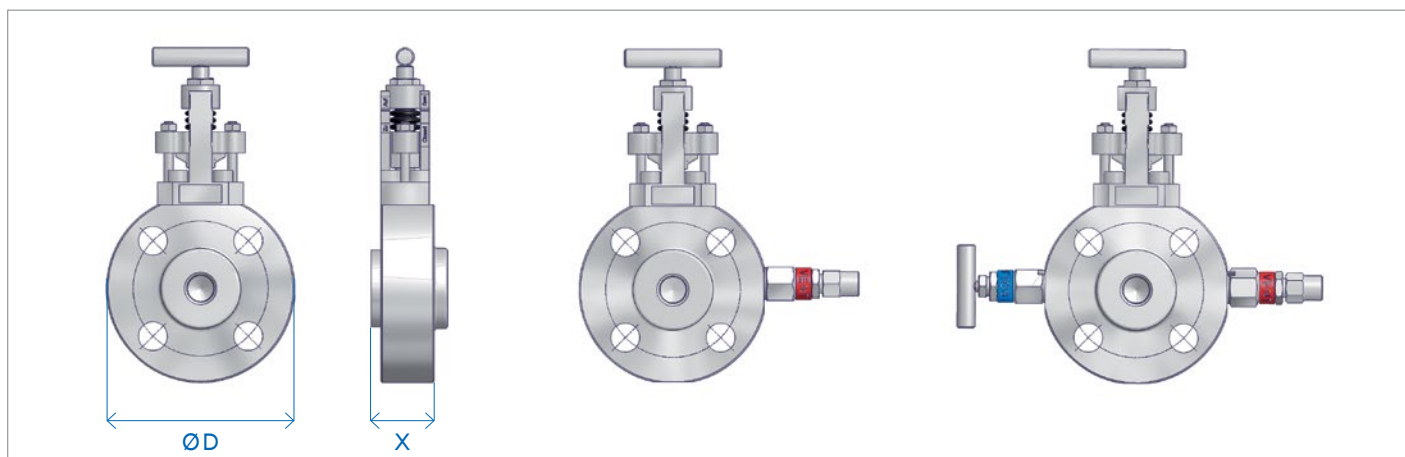


Level Assembly (Wet/dry leg installation) consisting of:

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



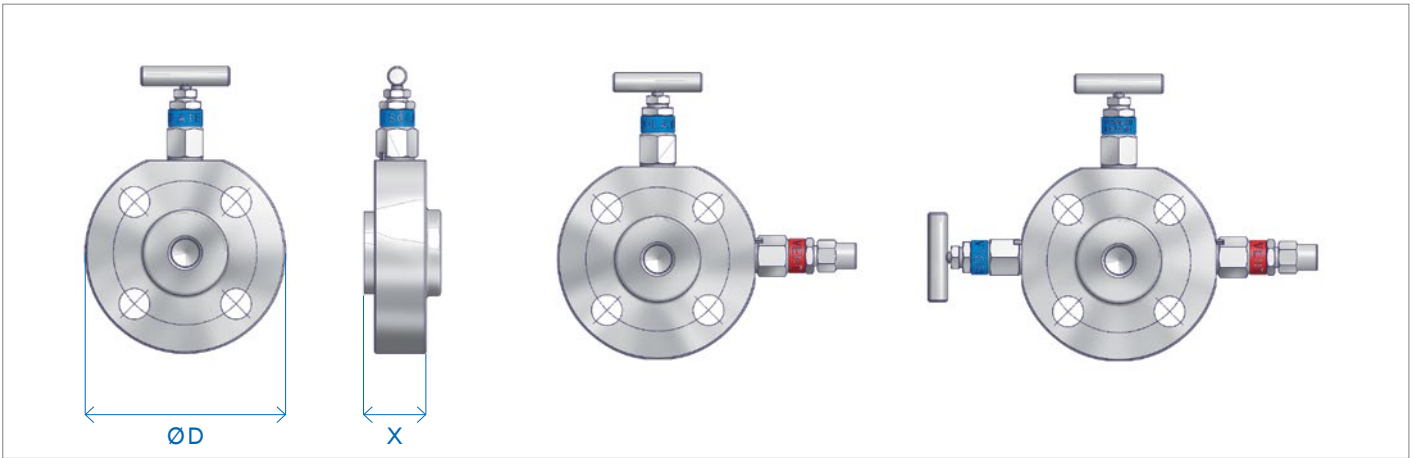
Process Monoflange | Weights and Dimensions



Flange x Thread

Flange Size (in)	Flange Class	ØD (mm)	Flange Face		Approx. Weight (kg)
			RF x (mm)	RTJ x (mm)	
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	900/1500	120.7	41.4	41.4	3,5
1/2	2500	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	900/1500	130.0	41.4	41.4	4,1
3/4	2500	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	900/1500	149.3	41.4	41.4	5,1
1	2500	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	900/1500	177.8	41.4	41.4	7,4
1 1/2	2500	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	900/1500	215.9	45.4	46.9	12,0
2	2500	235.0	58.4	59.9	17,5

Instrument Monoflange | Weights and Dimensions



Flange x Thread

Flange Size (in)	Flange Class	ØD (mm)	Flange Face		Approx. Weight (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	900/1500	120.7	38.4	38.4	2,9
1/2	2500	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	900/1500	130.0	38.4	38.4	3,5
3/4	2500	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	900/1500	149.3	38.4	38.4	6,8
1	2500	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	900/1500	177.8	39.4	39.4	6,8
1 1/2	2500	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	900/1500	215.9	45.4	46.9	11,6
2	2500	235.0	58.4	59.9	17,0

Monoflange | Ordering Information

Ordering Information | Monoflange

				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	N
Monoflange Type																	
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)														
Packing																	
A	PTFE																
B	Graphite																
W	Carbon filled PTFE - TA-Luft																
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	API Flanges on request!											
NJ	1" RTJ	NU	3" RF	QP	DN25 C (tongue)												
NK	1 1/2" RF	NW	3" RTJ	QQ	DN25 D (groove)												
ASME Flange Class						EN Flange PN Designation											
A	150	E	900/1500	D	PN 40												
B	300	F	2500	G	PN 160												
C	600			H	PN 250												
Outlet Connection																	
Thread Connection						Transmitter Interface											
LGQ	G 1/2 Female (Integral Swivel Gauge Adaptor)					RD1	EN 61518 type A (only for axial outlet available)										
LN4	1/2 NPT Female					RFB	For Rosemount 3051 (only for axial outlet available)										
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	M	Alloy 400														
F	Duplex UNS 31803	S	316/316L														
H	Alloy C-276	V	Alloy 625														
L	A350 LF2																
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			T	All Valve Head Units Anti-Tamper												
N	NACE MR0175/ISO 15156			W	All Valve Head Units Anti-Tamper lockable incl. padlock												
S	Wafer Style (Flange x Flange)			Y	Vent Valve Head Units Anti-Tamper lockable incl. padlock												

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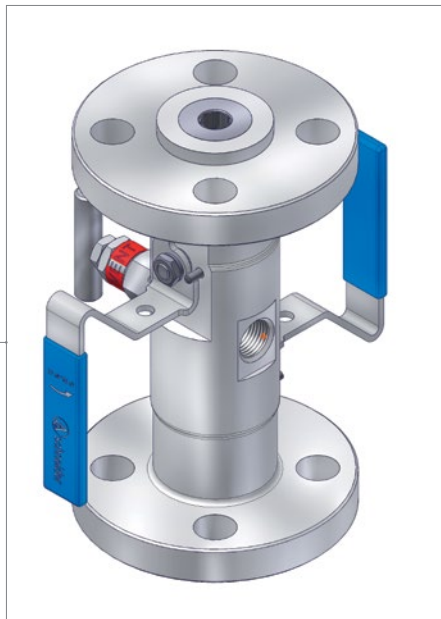
VariAS-Block Series

VariAS-Block Series

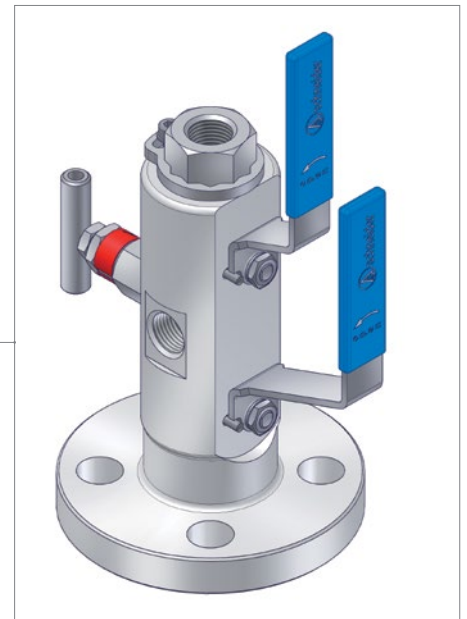
The VariAS-Block Series are designed to replace conventional, multiple-valve installations. The VariAS-Blocks are forged, one-piece double block and bleed assemblies for primary isolation of pressure take-offs, where the valve is

directly mounted to the vessel or process pipe. Instruments may be directly mounted to the valve outlet or remote mounted with impulse pipe work.

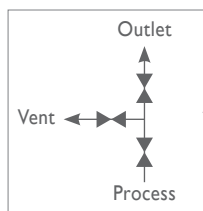
Features two independently operable ball valves for isolation with an intermediate needle valve alternatively ball valve for venting.



Flange x Flange



Flange x Thread



Flange x Flange



Flange x Thread

Standard Features

- ASME B16.5 flange connections
Flange size 1/2" to 2" (DN15 to DN50)
Flange Class 150 to 2.500
- Ball/Needle/Ball design
- Ball Bore size 10mm
- One-piece forged body
- Outlet connection 1/2 NPT female or flange connection acc. to process connection
- Vent connection 1/2 NPT female
- Fire safe tested to API 607
- Pressure tested to EN 12266
- Anti-static design
- Anti-blowout stems
- Ball valve seats carbon-filled PTFE
- Vent valve seat metal/metal
- Material of construction 316/316L

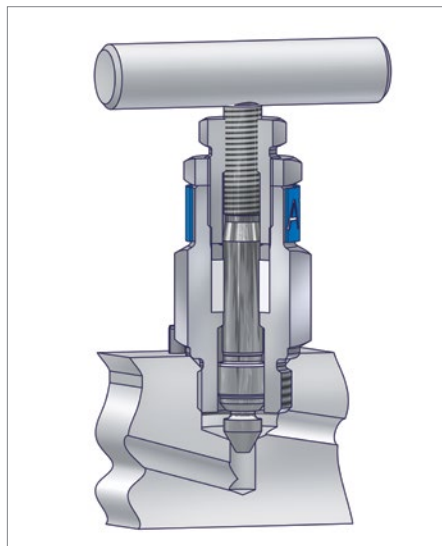
Optional Features

- API flange connections (up to 10.000 psi)
- EN 1092-1 flange connections
- Materials of construction including A350 LF2, A105, Duplex, Super Duplex, Monel®, Hastelloy®, 6Mo alloys, Incoloy®
- Ball/Ball/Ball design
- Ball/Needle design
- Needle/Needle/Needle design
- Ball bore size 20mm
- Ball valve seats PEEK, PTFE
- Pressure tested to API 598
- Wake frequency calculation for injection or sampling applications
- Anti-tamper head units (also lockable)
- NACE MR0175/ISO 15156 compliant materials
- Pressure test certificates and material certification
- Types available according to ISO 15848, please contact us
- Swivel gauge connections including 1/2 NPT male and female threads, see also Accessories page 19

If you don't find your option please contact us.

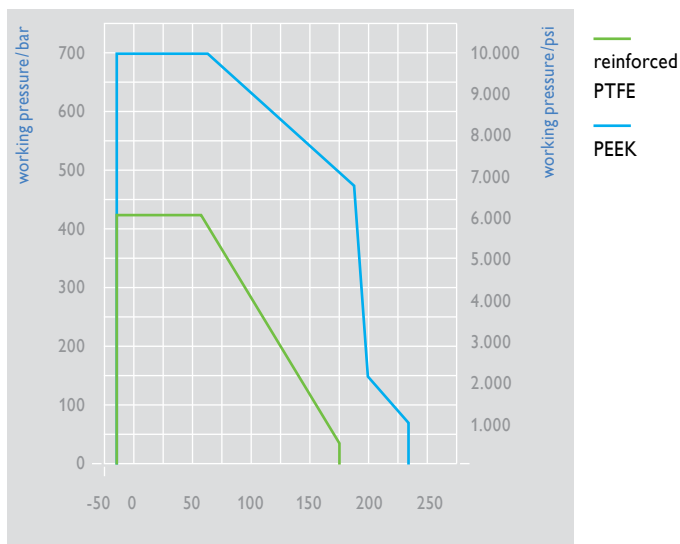


Ball Valve Design

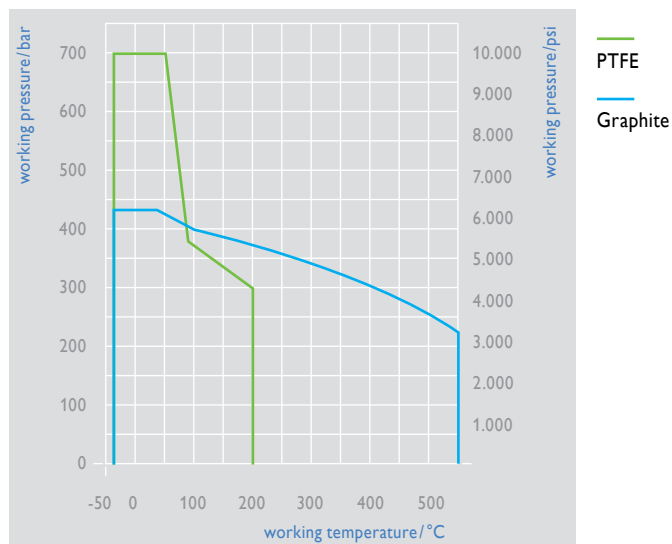


Needle Valve Design

Pressure-Temperature Rating Ball Valve



Pressure-Temperature Rating Needle Valve



VariAS-Block | Options

Block & Bleed Types

DE series – Features one ball valve and a needle valve for venting.



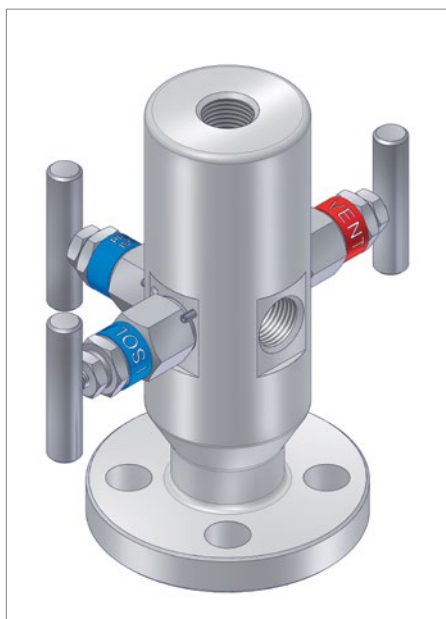
Flange x Thread



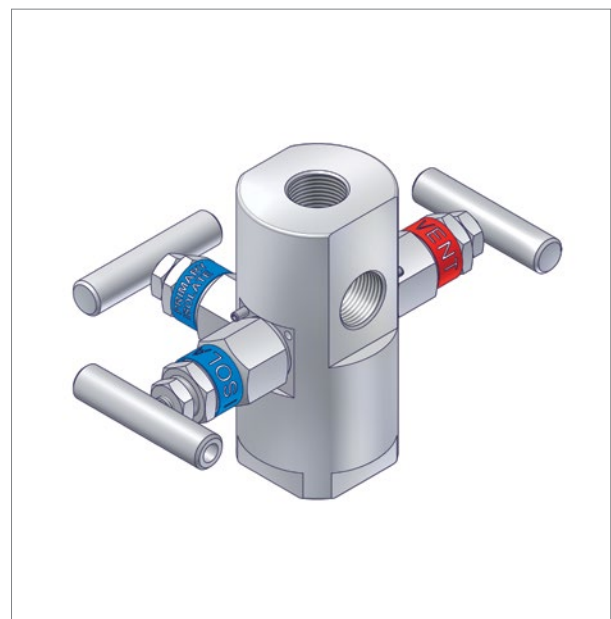
Thread x Thread

Double Block & Bleed Types

DC series – Features two independently operable needle valves and a needle valve for venting.



Flange x Thread



Thread x Thread

VariAS-Block for Injection and Sampling Applications

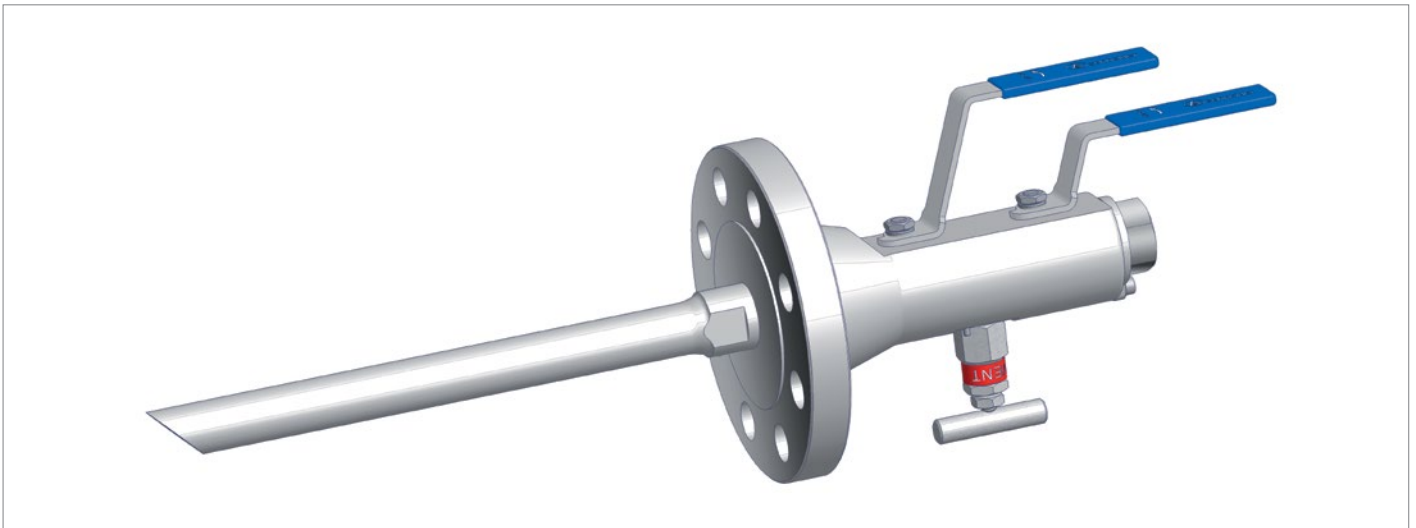
VariAS-Block for Injection and Sampling Applications

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

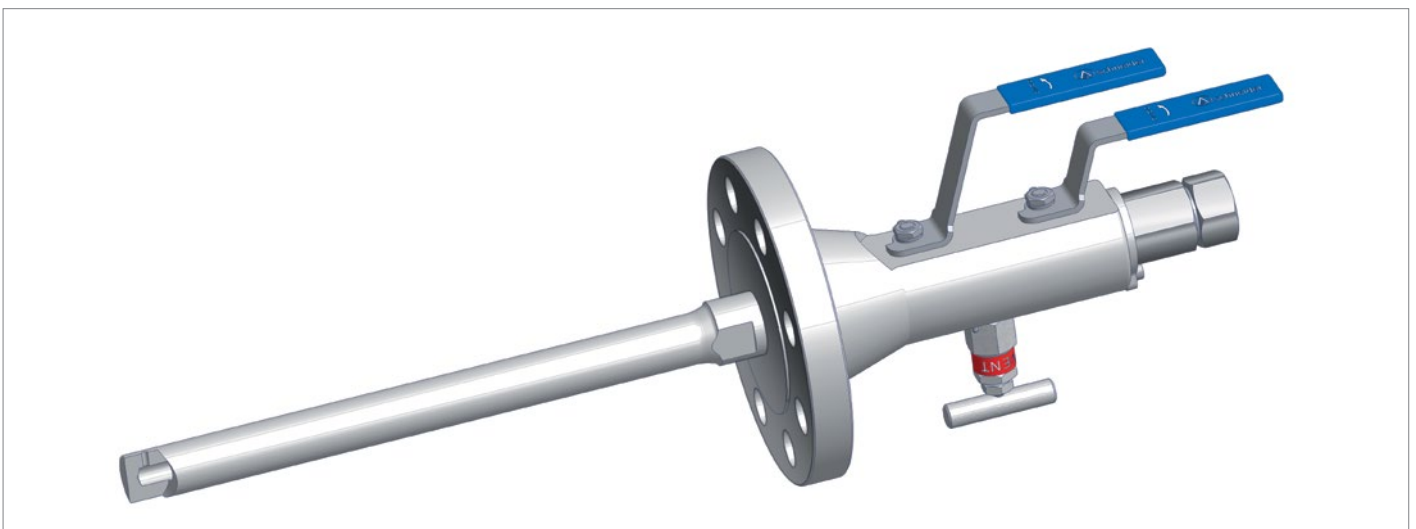
This design has been developed to remove a sample directly from the process stream at full system pressure.



For Sampling Applications (option 1)

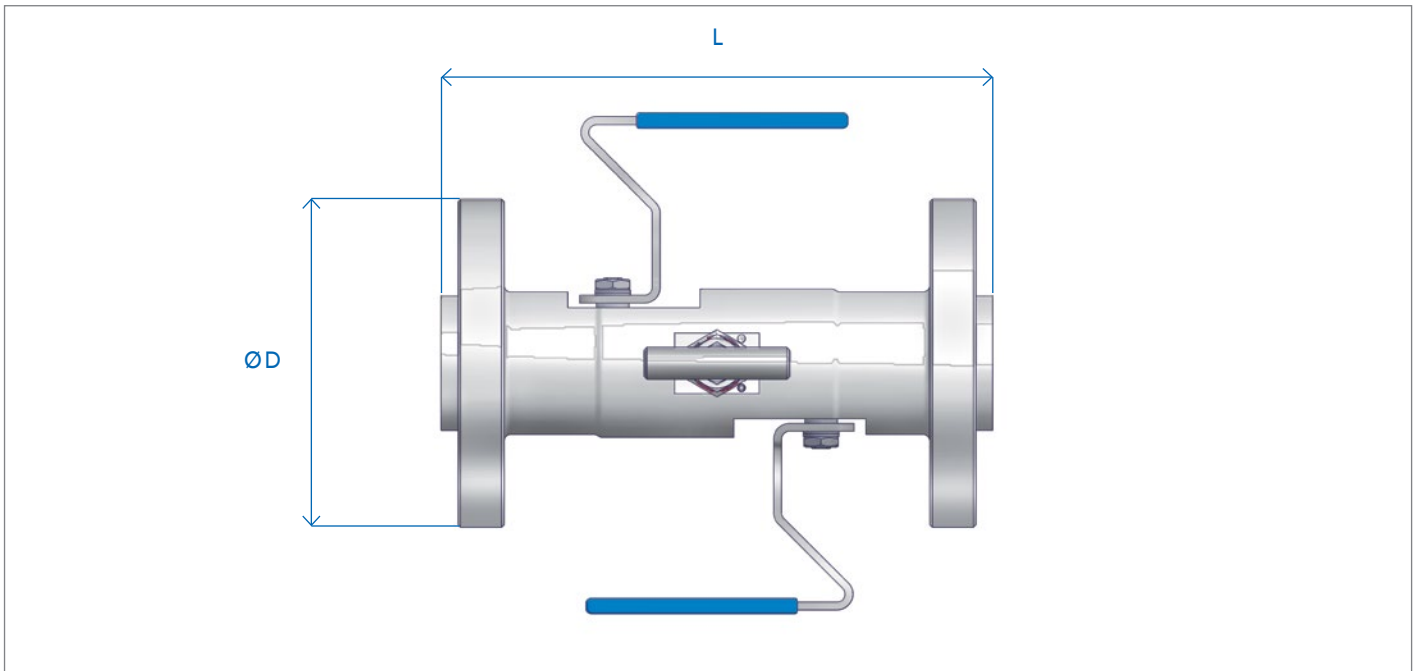
VariAS-Block for Injection Applications

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.



For Injection Applications (option V)

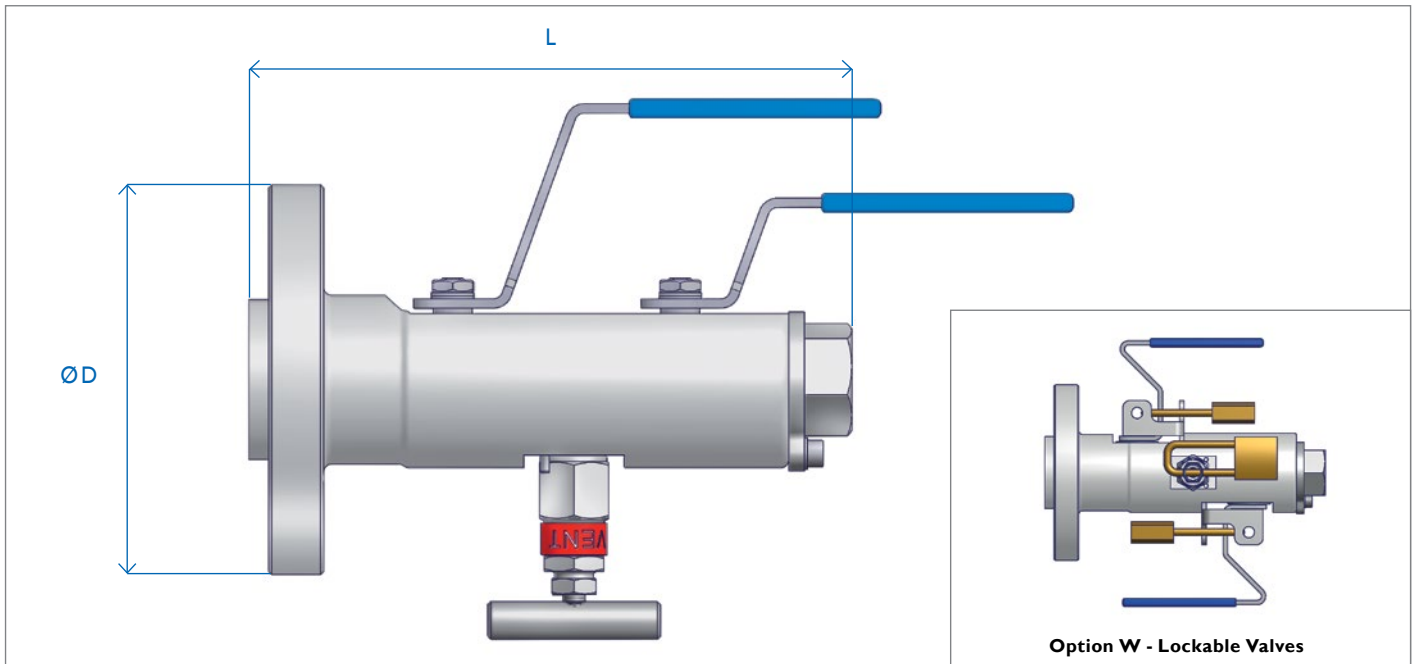
VariAS-Block | Weights and Dimensions



Flange x Flange

Flange Size (in)	Flange Class	ØD (mm)	Bore Size 10mm			Bore Size 20mm		
			Flange Face		Approx Weight (kg)	Flange Face		Approx Weight (kg)
			RF L (mm)	RTJ L (mm)		RF L (mm)	RTJ L (mm)	
1/2	150	88.9	199.2	--	3	--	--	--
1/2	300	95.3	199.2	207.2	4	--	--	--
1/2	600	95.3	208.8	207.2	4	--	--	--
1/2	900/1500	120.6	208.8	208.8	6	--	--	--
1/2	2500	133.4	208.8	208.8	8	--	--	--
3/4	150	98.6	199.2	--	4	--	--	--
3/4	300	117.3	199.2	208.8	5	--	--	--
3/4	600	117.3	208.8	208.8	5	--	--	--
3/4	900/1500	130.0	208.8	208.8	7	--	--	--
3/4	2500	139.7	240.8	240.8	10	--	--	--
1	150	108.0	199.2	208.8	5	216.4	226.0	8
1	300	124.0	199.2	208.8	6	216.4	226.0	9
1	600	124.0	208.8	208.8	6	226.0	226.0	9
1	900/1500	149.3	240.8	240.8	10	296.0	296.0	15
1	2500	158.8	240.8	240.8	14	296.0	296.0	18
1 1/2	150	127.0	199.2	208.8	6	216.4	226.0	10
1 1/2	300	155.4	231.2	240.8	9	216.4	226.0	12
1 1/2	600	155.4	240.8	240.8	10	258.0	258.0	15
1 1/2	900/1500	177.8	240.8	240.8	16	296.0	296.0	21
1 1/2	2500	203.2	265.8	268.8	27	296.0	299.0	31
2	150	152.4	231.2	240.8	9	245.2	245.2	14
2	300	165.1	231.2	243.8	12	213.2	213.2	14
2	600	165.1	240.8	243.8	13	245.2	245.2	17
2	900/1500	215.9	265.8	268.8	28	367.2	367.2	38
2	2500	235.0	265.8	268.8	40	367.2	367.2	47

VariAS-Block | Weights and Dimensions



Flange x Thread

Flange Size (in)	Flange Class	ØD (mm)	Bore Size 10mm			Bore Size 20mm		
			Flange Face		Approx Weight (kg)	Flange Face		Approx Weight (kg)
			RF L (mm)	RTJ L (mm)		RF L (mm)	RTJ L (mm)	
1/2	150	88.9	187.2	--	3	--	--	--
1/2	300	95.3	187.2	191.2	3	--	--	--
1/2	600	95.3	192	191.2	3	--	--	--
1/2	900/1500	120.6	192	192	4	--	--	--
1/2	2500	133.4	192	192	5	--	--	--
3/4	150	98.6	187.2	--	3	--	--	--
3/4	300	117.3	187.2	192	4	--	--	--
3/4	600	117.3	192	192	4	--	--	--
3/4	900/1500	130.0	192	192	5	--	--	--
3/4	2500	139.7	208	208	6	--	--	--
1	150	108.0	187.2	192	4	221.8	226.6	8
1	300	124.0	187.2	192	4	221.8	226.6	8
1	600	124.0	192	192	4	226.6	226.6	9
1	900/1500	149.3	208	208	6	261.6	261.6	12
1	2500	158.8	208	208	8	261.6	261.6	13
1 1/2	150	127.0	187.2	192	5	221.8	226.6	9
1 1/2	300	155.4	203.2	208	6	221.8	226.6	10
1 1/2	600	155.4	208	208	7	242.6	242.6	11
1 1/2	900/1500	177.8	208	208	9	261.6	261.6	15
1 1/2	2500	203.2	222,5	224	15	261.6	263.1	20
2	150	152.4	203.2	208	6	236.2	236.2	11
2	300	165.1	203.2	209,5	7	220.2	220.2	11
2	600	165.1	208	209,5	8	236.2	236.2	12
2	900/1500	215.9	222,5	224	15	297.2	297.2	21
2	2500	235.0	222,5	224	21	297.2	297.2	27

VariAS-Block | Ordering Information

Ordering Information | VariAS-Block

		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	N	
VariAS-Block Type																
Block & Bleed																
DD	10mm Bore Ball Valve (Ball/Ball)															
DE	10mm Bore Ball Valve (Ball/Needle)															
Double Block & Bleed																
DA	10mm Bore Ball Valve (Ball/Ball/Ball)															
DB	10mm Bore Ball Valve (Ball/Needle/Ball)															
DC	Needle Valve (Needle/Needle/Needle)															
DP	20mm Bore Ball Valve (Ball/Needle/Ball) ≥ Flange Size 1"															
Seals																
	Packing / Body seals					Ball seat										
1	PTFE					Carbon filled PTFE										
2	Graphite					Carbon filled PTFE										
3	PTFE					PEEK										
4	Graphite					PEEK										
Process Connection																
ASME Flange Size								Thread								
NA	1/2" RF	NJ	1" RTJ		JN	Male NPT										
NC	1/2" RTJ	NK	1 1/2" RF		LN	Female NPT										
ND	3/4" RF	NM	1 1/2" RTJ													
NF	3/4" RTJ	NN	2" RF													
NG	1" RF	NQ	2" RTJ													
Process Connection (continued)																
ASME Flange Class								Thread Size								
A	150	E	900/1500		4	1/2"										
B	300	F	2500		6	3/4"										
C	600															
Outlet Connection																
ASME Flange Size								Thread								
NA	1/2" RF	NJ	1" RTJ		LG	Female G (EN837-1)										
NC	1/2" RTJ	NK	1 1/2" RF		JN	Male NPT										
ND	3/4" RF	NM	1 1/2" RTJ		LN	Female NPT										
NF	3/4" RTJ	NN	2" RF													
NG	1" RF	NQ	2" RTJ													
Outlet Connection (continued)																
ASME Flange Class								Thread Size								
A	150	E	900/1500		4	1/2"										
B	300	F	2500		6	3/4"										
C	600															
Body Material																
C	A105		M	Alloy 400												
F	Duplex UNS 31803		S	316/316L												
H	Alloy C-276		V	Alloy 625												
L	A350 LF2															
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																
N	NACE MR0175 / ISO 15156															
W	All Valves lockable incl. padlock. Note: Flange x Thread Design - Position of Secondary Isolation Valve on opposite side of Primary Isolation Valve.															
1	Sampling probe (starting from 1 1/2" flange size)															
V	Injection probe incl. check valve (starting from 1 1/2" flange size) - only available for 3/8" Bore Ball Valve															

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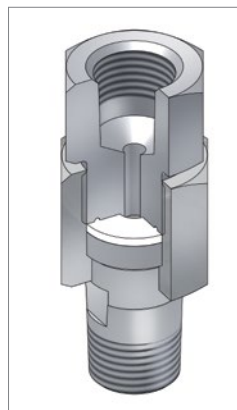
Accessories for Monoflanges and VariAS-Blocks

Swivel Gauge Adaptors

The Swivel Gauge Adaptor enables the easy positioning of the gauge in any direction through 360°.

Ordering Code

INLET	OUTLET	SEAL RING	MATERIAL	PART NUMBER
1/2 NPT Male	1/2 NPT Female	PTFE	316 SST	S007.45.206.05
1/2 NPT Male	1/2 NPT Female	316 SST	316 SST	S007.45.206.15
1/2 NPT Male	1/2 NPT Male	316 SST	316 SST	S007.45.207.12



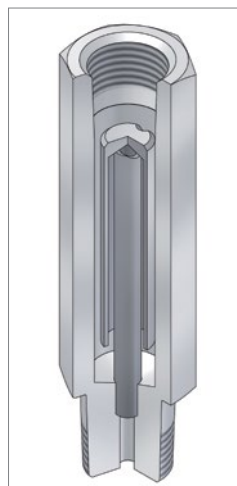
Gauge Syphons

Designed to replace the pigtail type of 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 Code

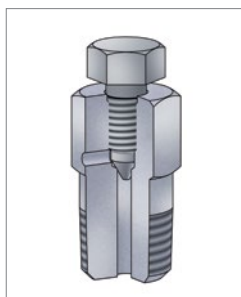
INLET	OUTLET	MATERIAL	PART NUMBER
G 1/2 Male	G 1/2 Female	316 SST	S006.47.201.05
1/2 NPT Male	1/2 NPT Female	316 SST	S006.47.203.05



Hex Nipples



Vent Valves



Screw Plugs



Ordering Code

	CONNECTIONS	MATERIAL	PART NUMBER
HEX NIPPLES	1/2 NPT Male	316 SST	S006.11.249.04
VENT VALVES	1/4 NPT Male	316 SST	S312.09.405.02
	1/2 NPT Male	316 SST	S312.09.405.04
SCREW PLUGS	1/4 NPT Male	316 SST	S006.14.441.01
	1/2 NPT Male	316 SST	S006.14.441.03



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