

## Instrumentation Products

E Series Valves and Manifolds



# Introduction

## 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 E Series Valves and Manifolds as well as numerous accessories needed for the instrumentation installations globally.

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 – very often 1/2 NPT threaded. If you need the dimensions for your individual type please contact the factory.

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

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.



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# General Features

## Body Material Options

Material Group	AS Material Designation	Material No.	Short Name	Equivalent UNS-No.	Material Grade acc. to ASTM	E Series Needle Valves and Manifolds
Carbon Steel	Carbon Steel	1.0460	P250GH			Optional
	LF2				LF2	Optional
Austenitic Stainless Steel	Stainless Steel	1.4571	X6CrNiMoTi17-12-2	S 31635	316Ti	Optional
	316 quadruple certified*	1.4401	X5CrNiMo17-12-2	S 31600	316	Standard
		1.4404	X2CrNiMo17-12-2	S 31603	316L	Standard
	6Mo	1.4547	X 1CrNiMoCuN20-18-7	S 31254		Standard
Austenitic-Ferritic Stainless Steel	Duplex	1.4462	X2CrNiMoN22-5-3	S 31803	F51	Standard
	Superduplex	1.4410	X2CrNiMoN25.7.4	S 32750	F53	Standard
		1.4501	X2CrNiMoCuWN25.7.4	S 32760	F55	Standard
Heat Resistant Steel		1.5415	16Mo3			Alternative**
		1.7335	13CrMo 4-5		F12	Alternative**
		1.7383	10CrMo9-10		F22	Alternative**
		1.4903	X 10 CrMoVNb 9-1		F91	Alternative**
Nickel Based Alloys	Alloy 400	2.4360	NiCu30Fe	N 04400		Standard
	Alloy C-276	2.4819	NiMo 16 Cr 15 W	N 10276		Standard
	Alloy 625	2.4856	NiCr22Mo9Nb	N 06625		Standard
	Alloy 825	2.4858	NiCr21Mo	N 08825		Optional
Titanium	Titanium Grade 2	3.7035	Ti-II	R 50400		Standard

\* Quadruple Certified means 316 / 316L / 1.4401 / 1.4404

\*\* Alternative Valve Type: Please contact factory

## Standard Features

- Bore Size 5 mm
- Manifolds are not supplied with plugs unless specified.
- Anti-Tamper Head Unit Options see Page 11.

### Needle Seal:

PTFE and Graphite Packings are available for all valve types. Alternatively O-Ring stem seal and Bellows Sealed Head Units – see Page 6–10.

### 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) – Standard Material only (see last column), except Titanium Grade 2.

### Pressure Test:

A shell test and a seat leakage test are performed at 1.5 times the maximum working pressure acc. to EN 12266-1 – P10, P11 and P12 respectively MSS-SP61 at every standard AS-Schneider E Series Needle Valve / Manifold → 100% Pressure Tested!

### Certification:

Inspection certificate 3.1 acc. to EN 10 204 for valve body material and pressure test available on request.

## Optional Features

- Soft Seated Needle Valves: Bore Size 6.35 mm (1/4")
- Bore Size 10 mm

### Fugitive Emission Application:

For Fugitive Emission Applications AS-Schneider is providing bellows sealed valves with safety packing. Choice of Pressure class PN 100 or PN 250. The bellows are submitted to a 100% Helium leak test. The leak rate is  $10^{-8}$  mbar l/s. Optional available are TA-Luft and ISO 15848 solutions. For more details see Pages 9 and 10.

### AS-Schneider offers a BAM tested option cleaned and lubricated for Oxygen Service:

PTFE Packing – Max. Operating Pressure 420 bar (6,092 psi)  
 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 Bonnet Design

### T Handle

Operating options are Anti-Tamper features or a Stainless Steel Handwheel.

### Valve Stem

Stem with cold rolled threads for high strength and smooth operation.

### Needle Seal

Standard: PTFE or Graphite Packing  
Options: O-Ring or Bellows Sealed

### Needle

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

### Back Seat

Metal to Metal secondary needle seal and therefore the needle is anti-blowout / non-removable – For your safety.

### Needle Tip

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

### Valve Seat

Metal seated (integral type) and Soft seated → See Page 7 and Catalogue AS-4302.



### Colour Coded Dust Cap

For operating thread protection:

Isolate	BLUE
Vent/Test	RED
Equalize	GREEN

### Colour Coded Options

Following options are also colour coded below dust cap:

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

### Lock Pin

Eliminates unauthorized removal of the bonnet assembly.

### Bonnet

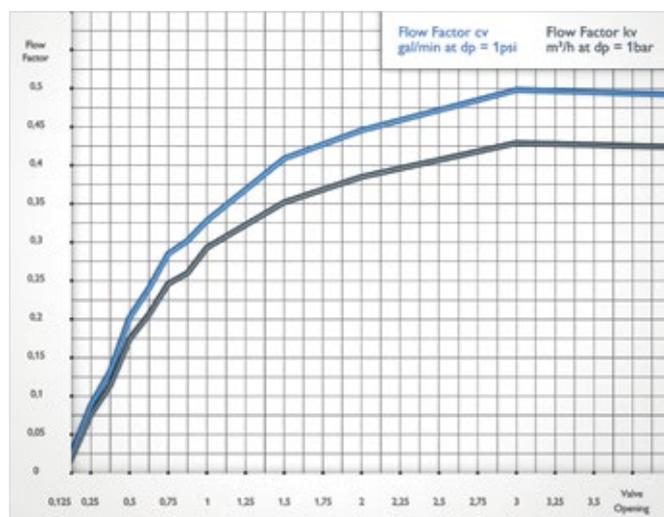
Metal to Metal Seal to Valve Body.

### Traceability of Materials

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

## Flow Data

Needle Valves Standard Head Unit – Bore Size 5 mm



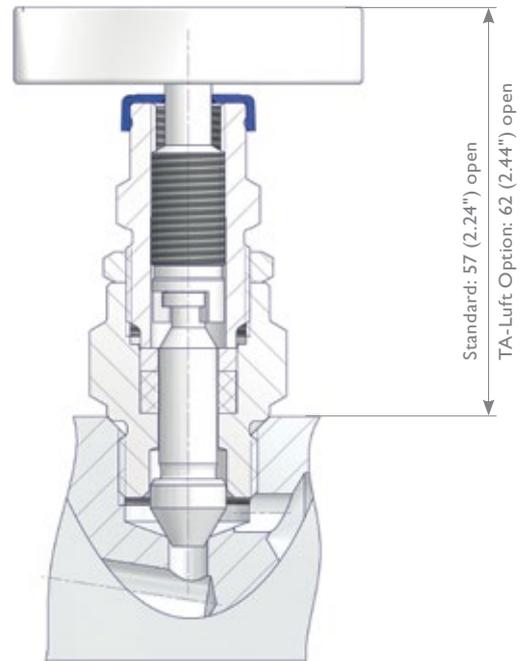
# Standard Valve Head Units

## Standard Needle Valves

**Screwed Bonnet** – Stem Seal: Packing

### Features

- Integral Valve Seat – Metal to Metal Seated
- Soft Tip PCTFE or POM optional
- Non-rotating Needle
- External Stem Thread – Packing below stem threads. Stem Threads are protected from process media (non-wetted), helps to prevent stems from galling.
- 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
- Colour Coded Dust Cap for operating thread protection
- Standard Packing in PTFE and Graphite available
- Carbon filled PTFE Packing - TA-Luft option
- Max. Operating Pressure 420 bar (6,092 psi) - 689 bar (10,000 psi) optional
- Panel Mount Option available
- Anti-Tamper Valve Head Options available
- All non-wetted parts in 316 stainless steel



### Colour Coded Options

Graphite Packing



Oxygen Service



TA-Luft Option



### Panel Mount Option



Components	Stainless Steel		Exotic Alloys						
	Material / Material No.								
<b>Body</b>	316 / 316L	Alloy 400	Alloy C-276	Duplex	UNS S32750	UNS S32760	Alloy 625	6Mo	Titanium Gr. 2
<b>Bonnet</b>									
<b>Needle</b>									
<b>Pipe Plug</b>									
Valve Stem	316 / 316L								
Gland	316								
Packing	PTFE or Graphite								
Stem Nut	316								
Lock Nut	316								
Set Screw	316								
T Handle	316								
Lock Pin	A4 (316)								

Wetted components listed in **bold**.

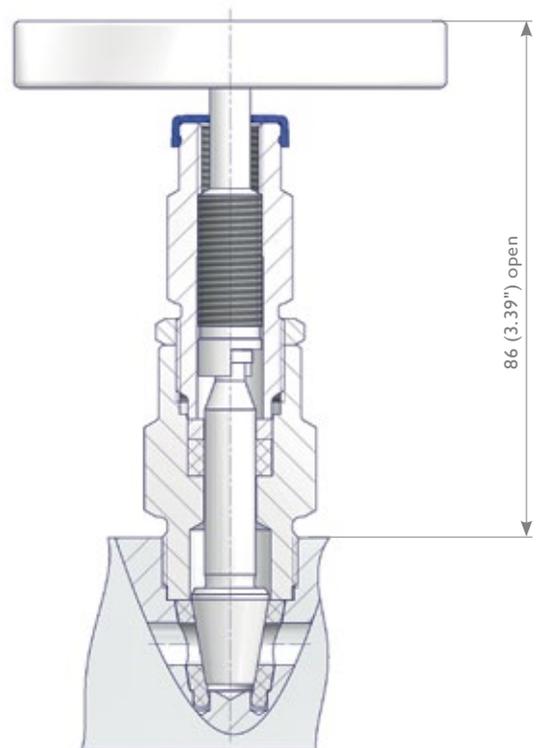
## Soft Seated Needle Valves → See Catalogue AS-4302

**Screwed Bonnet** – Soft Seated  
Bore Size 6.35 mm (1/4")

### Features

- Rising Plug Valve Design
- Soft Seated – Roddable Design
- Replaceable Valve Seat – ETFE, POM and PEEK
- Needle Seal  
Standard Packing in PTFE  
or Carbon filled PTFE – TA-Luft Option
- 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 stem seal
- Lock Pin – Eliminates unauthorized removal of the bonnet
- Color Coded Dust Cap for operating thread protection
- Valve Seat in ETFE 3,000 psi (207 bar) rated.  
Valve Seat in POM and PEEK mod 6,092 psi (420 bar) rated.
- Anti-Tamper Valve Head Options available
- All Non-wetted parts in 316 Stainless Steel

**Soft Seated Needle Valves and Manifolds see Catalogue AS-4302.**

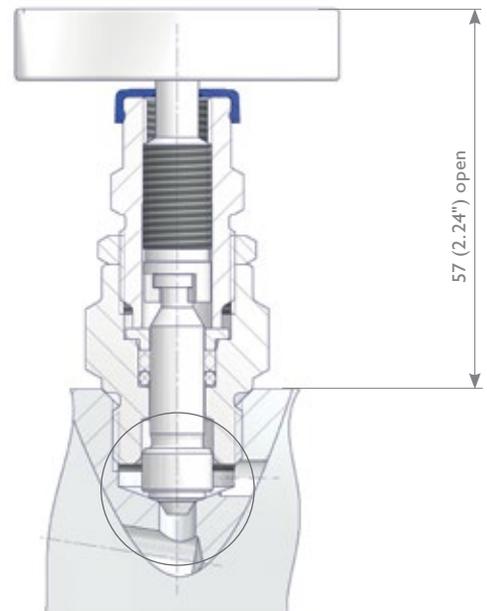


## Needle Valves with O-Ring Stem Seal

**Screwed Bonnet** – O-Ring Stem Seal

### Features

- Integral Valve Seat
- Non-rotating Needle
- External Stem Thread – Packing below stem threads.  
Stem Threads are protected from process media (non-wetted),  
helps to prevent stems from galling.
- 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
- Colour Coded Dust Cap for operating thread protection
- O-Ring FKM, optional EPDM
- Soft Tip PCTFE or POM
- Max. Operating Pressure 420 bar (6,092 psi)
- Panel Mount Option not available
- Anti-Tamper Valve Head Options available
- All non-wetted parts in 316 stainless steel



**Colour Coded Option**  
FKM O-Ring Stem Seal  
with PCTFE Soft Tip

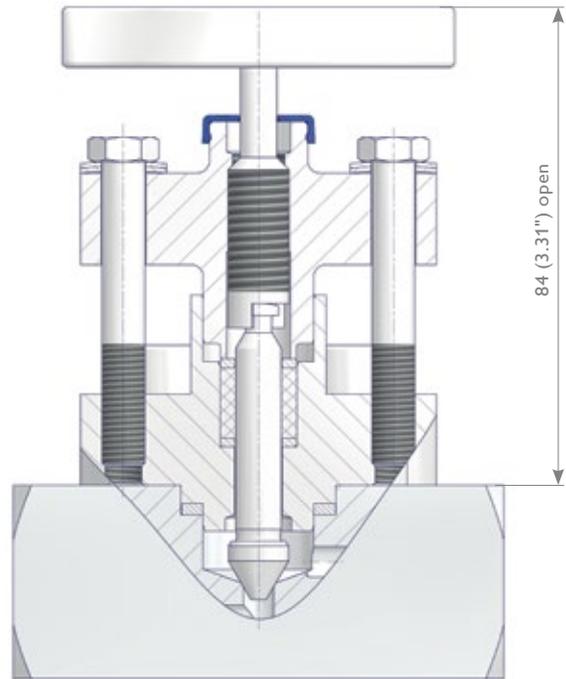
# Standard Valve Head Units

## Needle Valves with OS&Y Bolted Bonnet

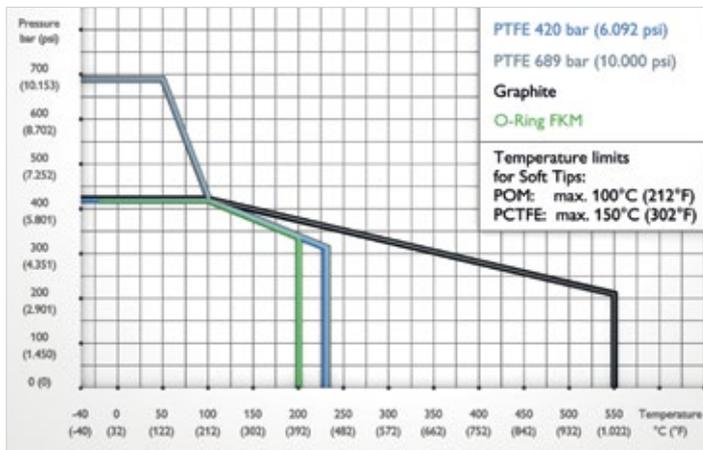
### OS&Y Bolted Bonnet – Standard Packing

#### 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), helps to prevent stems from galling.
- Stem with cold rolled threads
- Blow-out proof Needle
- Spring Washers for compensation of thermal expansion
- Back Seat – Metal to metal secondary needle seal
- Colour Coded Dust Cap for operating thread protection
- Max. Operating Pressure 420 bar (6,092 psi)
- Anti-Tamper Valve Head Options available
- PTFE or Graphite Packing
- Bonnet Seal Ring: Graphite
- 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.

# Valve Head Units for Fugitive Emission Applications

## Needle Valves acc. to ISO 15848

**Screwed Bonnet** – Type 1 O-Ring Stem Seal + Graphite Packing  
Type 3 PTFE Packing

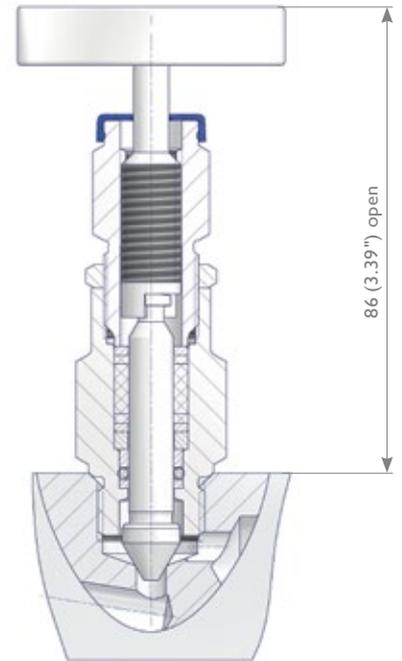
### Features

- 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), helps to prevent stems from galling.
- Stem with cold rolled threads
- Back Seat – Metal to metal secondary needle seal
- Colour Coded Dust Cap for operating thread protection
- Max. Operating Pressure 420 bar (6,092 psi)
- Anti-Tamper Valve Head Options available
- FKM O-Ring Needle Seal – RGD (Rapid Gas Decompression) resistant
- PTFE or Graphite Packing
- 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 /  $-29^{\circ}\text{C}$  to  $40^{\circ}\text{C}$   
( $-20^{\circ}\text{F}$  to  $104^{\circ}\text{F}$ )  
Class A 500 cycles /  $-29^{\circ}\text{C}$  to  $200^{\circ}\text{C}$   
( $-20^{\circ}\text{F}$  to  $392^{\circ}\text{F}$ )  
Class B 1,500 cycles /  $-29^{\circ}\text{C}$  to  $200^{\circ}\text{C}$   
( $-20^{\circ}\text{F}$  to  $392^{\circ}\text{F}$ )

ISO FE Type 3:  
Class B 1,500 cycles /  $-29^{\circ}\text{C}$  to  $200^{\circ}\text{C}$   
( $-20^{\circ}\text{F}$  to  $392^{\circ}\text{F}$ )



## OS&Y Needle Valves acc. to ISO 15848

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

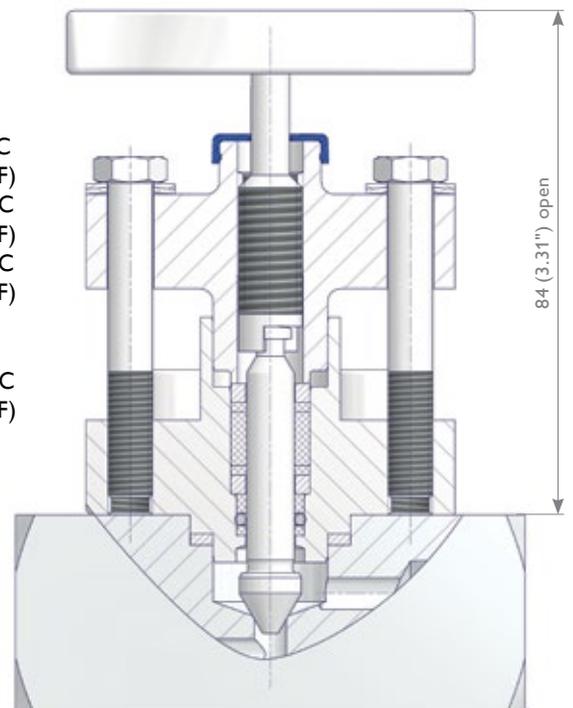
### Features

- 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), helps to prevent stems from galling.
- 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
- Max. Operating Pressure 420 bar (6,092 psi)
- Anti-Tamper Valve Head Options available
- FKM O-Ring Stem Seal – RGD (Rapid Gas Decompression) resistant
- PTFE or Graphite Packing
- Bonnet Seal Ring: Graphite
- 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 /  $-29^{\circ}\text{C}$  to  $40^{\circ}\text{C}$   
( $-20^{\circ}\text{F}$  to  $104^{\circ}\text{F}$ )  
Class A 500 cycles /  $-29^{\circ}\text{C}$  to  $200^{\circ}\text{C}$   
( $-20^{\circ}\text{F}$  to  $392^{\circ}\text{F}$ )  
Class B 2,500 cycles /  $-29^{\circ}\text{C}$  to  $200^{\circ}\text{C}$   
( $-20^{\circ}\text{F}$  to  $392^{\circ}\text{F}$ )

ISO FE Type 3:  
Class B 2,500 cycles /  $-29^{\circ}\text{C}$  to  $200^{\circ}\text{C}$   
( $-20^{\circ}\text{F}$  to  $392^{\circ}\text{F}$ )



# Valve Head Units for Fugitive Emission Applications

## Bellows Sealed Head Units

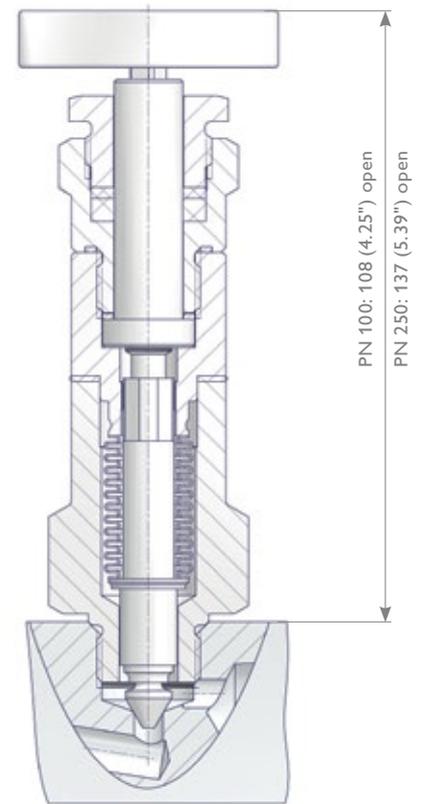
**Screwed Bonnet** – PN 100 and Graphite Safety Packing  
PN 250 and Graphite Safety Packing

### Features

- Integral Valve Seat – Metal to Metal Seated
- Non-rotating Stem
- Bellows sealed – PN 100 and PN 250 incl. Graphite Safety Packing
- Stem with cold rolled threads
- Stellite Needle Tip as standard
- Bellows are submitted to a 100% Helium leak test
- Leak rate:  $10^{-8}$  mbar l/s
- Valves for Oxygen Service on request

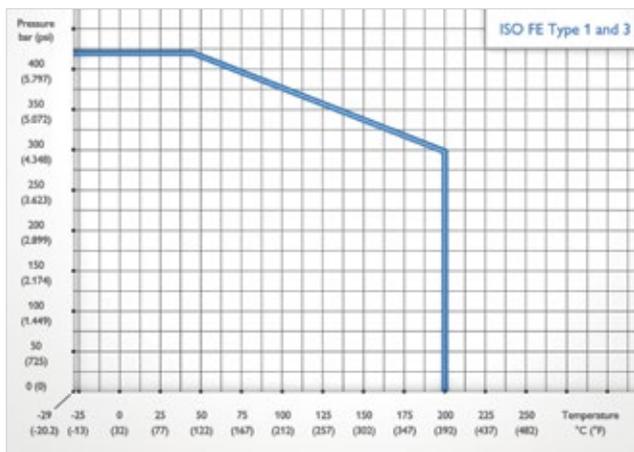
Bellows Sealed Head Units are mainly used for applications requiring the highest tightness class – such as toxic or vacuum service.

- ⚠ **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.**
- ⚠ **When delivered ex factory, the safety packing of the bellows sealed valve is not fully tightened. In the event of a bellows failure the safety packing must be tightened in order to avoid fluid leakage.**



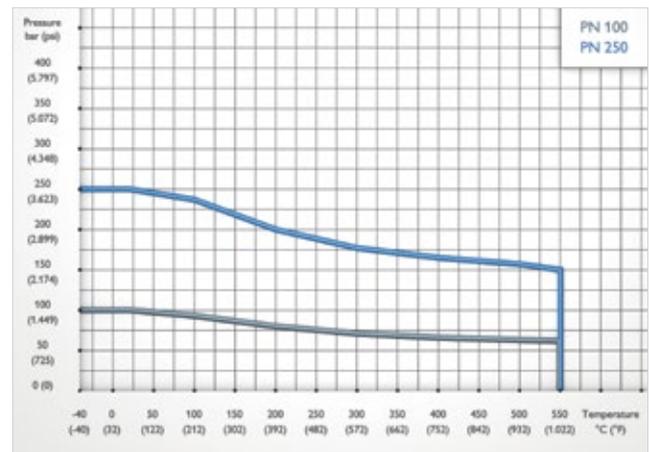
## Pressure-Temperature Rating

ISO FE Type 1     FKM O-Ring and Graphite Packing  
ISO FE Type 3     PTFE Packing



## Pressure-Temperature Rating

Bellows PN 100     Safety Packing Graphite  
Bellows PN 250     Safety Packing Graphite



## Anti-Tamper Valve Head Unit Options

AS-Schneider is providing 2 Anti-Tamper Valve Head Units, both types are lockable with a padlock.

### Standard Anti-Tamper Head Unit

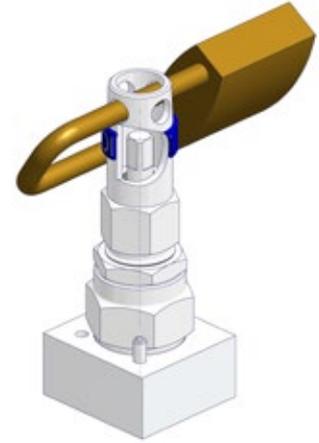
The valves are operated with a special Anti-Tamper Key (AT-Key), which fits exactly in the key guide. The valve can therefore only be operated with the AT-Key. In addition to this safety function, installing a padlock prevents the AT-Key being inserted into the key guide. Operating the valve is therefore 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.



Option Code T or R



Part Number ATK-ES



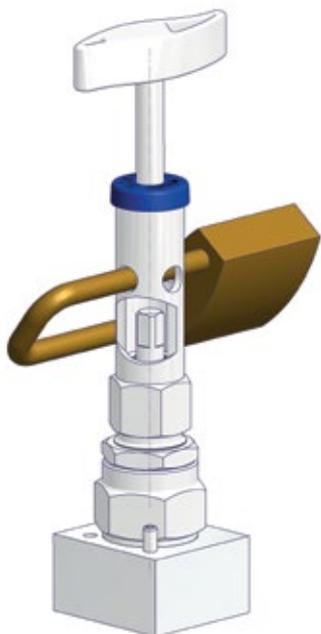
Incl. Padlock; Option Code U

### 'AT-Key Lock' Anti-Tamper Head Unit (Option Code Q)

'AT-Key Lock' valves are operated by a AT-Key which is an integral component of the valve. This Key can be extracted a little from the valve head unit which loosens the connection between the valve stem and the Key. In this extended position a padlock can now be hooked diagonally in the valve head unit which prevents the Key being inserted again. Operating the valve is therefore no longer possible which protects your equipment against unauthorised opening and closing of the valve. The valve can be locked reliably in every position required. This design offers you optimal security against unintentional and unauthorized operation of the valve. A colour coded dust cap protects stem threads against ingress of dirt unauthorized opening and closing of the valve head units. The valve can be locked reliably in every position.

### Stainless Steel Handwheel and 'Locking Plate' Design

The valves can be ordered optional with Stainless Steel Handwheel (Option Code W) and also with an additional fitted locking plate (Option Code J). For ordering the 'Locking Plate' Design incl. padlock you need to state J and U. This design allows minimum handle movements and is ideal as protection against unauthorised closing of the valve.



Option Code Q



Option Code J

### Stainless Steel Handwheel



Option Code W

# Connections

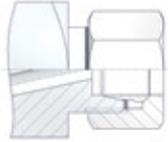
## Connections

AS-Schneider is manufacturing a lot of different connections and connection combinations. In this catalogue we are showing the most popular types. On the next 2 pages you will find the standard connections in detail. If you don't find your option please contact us.

**Designations used in the tables:** Inlet = Process Connection | Outlet = Instrument / Transmitter Connection

### Tube Fittings

Single Ferrule Tube Fittings  
acc. to EN ISO 8434-1 Size S



Twin Ferrule Tube Fittings

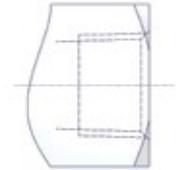


### Tapered Pipe Threads

NPT Male Threads  
acc. to ASME B 1.20.1



NPT Female Threads  
acc. to ASME B 1.20.1



BSP Tapered Thread  
acc. to ISO 7/1 (e.g. R 1/2)

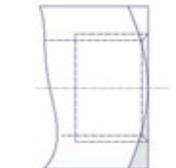
BSP Tapered Thread  
acc. to ISO 7/1 (e.g. Rc 1/2)

### Parallel Pipe Threads

BSP Parallel Male Thread  
acc. to ISO 228 (e.g. G 1/2)  
acc. to DIN 3852  
acc. to EN 837-1

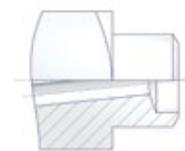


BSP Parallel Female Threads  
acc. to ISO 228 (e.g. G 1/2)  
acc. to DIN 3852-2 Form Z  
acc. to ISO 7/1 (e.g. R 1/2)  
acc. to EN 837-1



### Weld Ends

Butt Weld Ends for  
Pipes and Tubes acc. to  
EN12627 / ASME B16.9

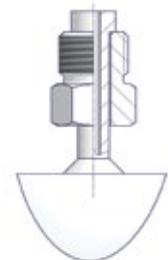


Socket Weld Ends for  
Pipes and Tubes acc. to  
EN12760 / ASME B16.11

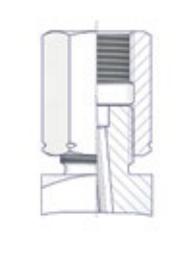


### Pressure Gauge Connections - For Parallel Pipe Threads only

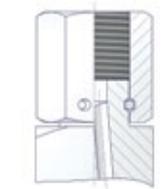
Swivel Male Connection



Adjusting Nut  
acc. to DIN 16283



Swivel Nut (Wire Design)



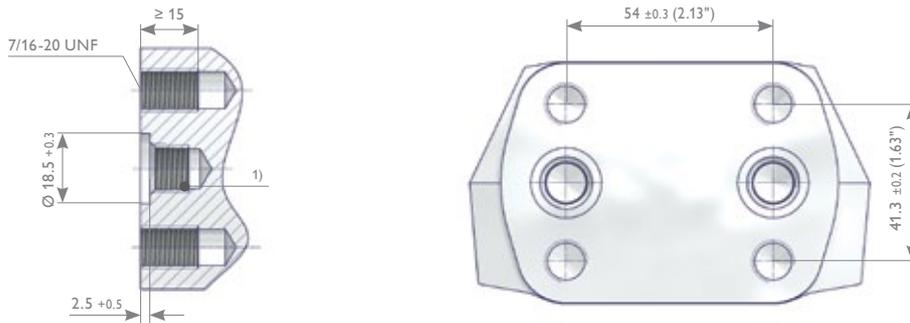
Swivel Nut  
(Welded Nipple Design)  
acc. to DIN 16284



## Flange Connections

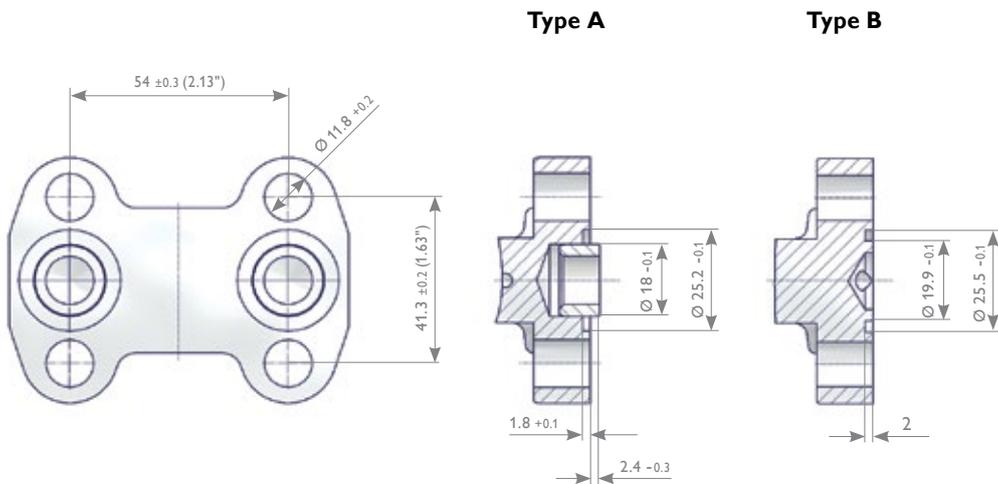
According to DIN EN 61518 the manifold-transmitter interface is applicable for a maximum allowable pressure (PS) of 413 bar\*<sup>3</sup> (6,000 psi) and a maximum allowable temperature (TS) of 120°C (248°F) for liquids, gas or vapors. The maximum allowable operating temperature of 120°C (248°F) is considering the requirement that manifolds and transmitters need to be protected against heating by hot media. This can be achieved by using adequate hook-ups or by instrument impulse lines with sufficient length. However the AS-Schneider E Series Manifolds can be used for temperatures up to 550°C (1,022°F), PTFE up to 232°C (450°F), Graphite up to 550°C (1,022°F).

### Flange Connections - Inlet Manifold respectively Transmitter Connection DIN EN 61518 / IEC 61518



<sup>1)</sup> Threaded option for transmitters - plug / vent valve

### Flange Connections – Manifold to Transmitter DIN EN 61518 / IEC 61518 Type A and Type B



	Connection at the manifold acc. to IEC 61518 / DIN EN 61518 <sup>*1 *3</sup>				
	Type A with spigot			Type B without spigot	
Max. operating pressure in bar (psi)	413 (6,000) <sup>*3</sup>			413 (6,000) <sup>*3</sup>	
Temperature range in °C (°F)	-10 to +80 (14 to 176)	-15 to +120 (5 to 248)	-40 to +120 (-40 to 248)	-10 to +80 (14 to 176)	-40 to +120 (-40 to 248)
Seal Ring <sup>*2</sup>	Flat Ring 24 x 17.7 x 2.7 Material: PTFE	O-Ring ISO 3601-1 20 x 2.65 S-FPM90 Material: FPM (FKM by ASTM)	Flat Ring 25.1 x 18 x 2.9 Material: Graphite	Flat Ring 25.4 x 20 x 2.7 Material: PTFE	Flat Ring 25.4 x 19.9 x 2.9 Material: Graphite
Min. thread engagement in mm	9			9	

<sup>\*1</sup> DIN EN 61518 / IEC 61518 I Mating dimensions between pressure measuring instruments and flanged-on shut-off devices up to 413 bar (6,000 psi).

<sup>\*2</sup> Materials and temperature limits for the flat rings and the O-Rings are for reference only. It is the responsibility of the user to ensure compatibility between the selected gasket ring material and the process requirements, such as pressure, temperature, and chemical compatibility.

<sup>\*3</sup> IEC 61518 is stating 413 bar (6,000 psi), AS-Schneider however confirms 420 bar (6,092 psi).

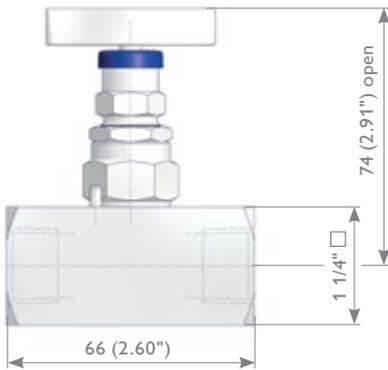
# Hand Valves

## Hand Valves

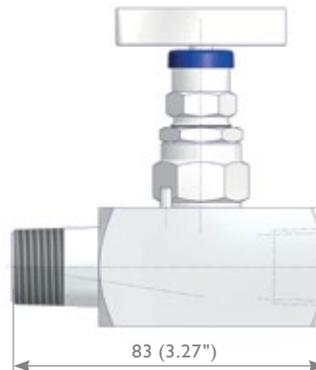
AS-Schneider Hand Valves are available with a lot of options. We are showing on this page just the standard types. You find a lot more options on the next page – Ordering Information Hand Valves.

The dimensions shown apply only to the illustrated valves (1/2 NPT Threaded) – if you need the dimensions for your individual type or should you still not find your options at all please contact the factory.

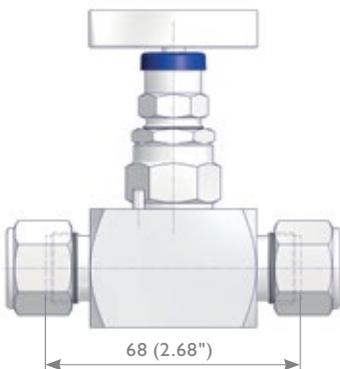
**Hand Valve Female x Female Threaded**  
HAFF Type



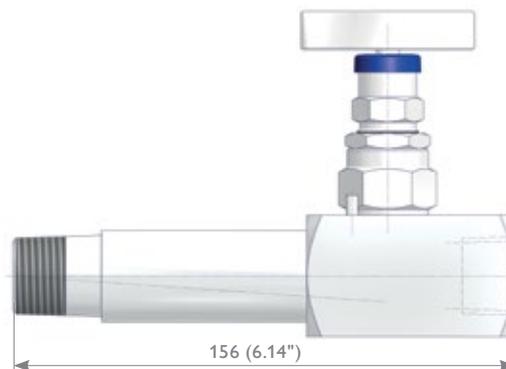
**Hand Valve Male x Female Threaded**  
HAMF Type



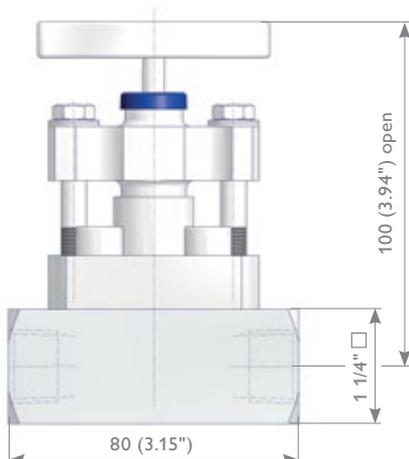
**Hand Valve with Integral Tube Fittings**  
HATT Type



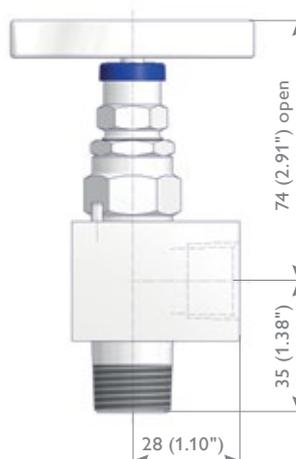
**Hand Valve with Extended Body**  
HXMF Type  
Extended by approx. 3"



**Hand Valve with OS&Y Bolted Bonnet**  
HFFF Type



**Angle Hand Valve**  
HLMF Type



**Bore Size 10 mm** -  
depending on connection size  
Width = 1 1/4"

## Ordering Information

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
H Hand Valves		H	A	T	T	S	A	-	R	4	R	4	-	M	S		
<b>Basic Design</b>																	
A	Screwed Bonnet	L	Angle Hand Valve (Screwed Bonnet)														
F	OS&Y Bonnet	X	Extended Body (Screwed Bonnet)														
<b>Inlet</b>																	
M	Male	B	Butt Weld End														
F	Female	S	Socket Weld End														
T	Integral Tube Fitting	A	1/2 NPT with Tube Fitting														
<b>Outlet</b>																	
M	Male	B	Butt Weld End														
F	Female	S	Socket Weld End														
T	Integral Tube Fitting	A	1/2 NPT with Tube Fitting														
<b>Material</b>																	
S	1.4401 / 1.4404 / 316 / 316L	F	Duplex UNS S31803		V	Alloy 625 UNS N06625											
M	Alloy 400 UNS N04400	D	Super Duplex UNS S32750		B	6Mo UNS S31254											
H	Alloy C-276 UNS N10276	2	Super Duplex UNS S32760		T	Titanium Grade 2											
<b>Bonnet</b>																	
A	PTFE	K	O-Ring FKM (FPM by ISO)														
B	Graphite	W	Carbon filled PTFE –TA-Luft														
D	ISO FE Series Type 1	2	Bellows sealed PN 100														
E	ISO FE Series Type 3	4	Bellows sealed PN 250														
<b>Inlet</b>																	
	<b>Thread Type</b>		<b>Fitting Type</b>		<b>Butt Weld End</b>		<b>Socket Weld End</b>										
N	NPT	C	Single Ferrule Tube Fitting	4	1/2" Pipe	D	For 12 mm Tube (Ø 12.2 mm)										
H	BSP Parallel (G) – DIN 3852-2	S	Swagelok	6	3/4" Pipe	E	For 14 mm Tube (Ø 14.25 mm)										
R	BSP Taper (R/Rc) – ISO 7/1	A	A-Lok	D	12 mm	2	For 1/4" Pipe										
		R	Rotarex	E	14 mm												
	<b>Inch Sizes</b>		<b>Tube Fitting Sizes</b>		<b>Wall Thickness Butt Weld</b>	A	<b>Socket Weld</b>										
2	1/4	1	6 resp. 6S	P	Schedule 80												
4	1/2	2	8 resp. 8S	Q	Schedule 160												
6	3/4	3	10 resp. 10S	2	2.0 mm												
		4	12 resp. 12S	8	2.6 mm												
		7	1/4"	A	3.2 mm												
		8	3/8"														
		9	1/2"														
<b>Outlet</b>																	
	<b>Thread Type</b>		<b>Fitting Type</b>		<b>Butt Weld End</b>		<b>Socket Weld End</b>										
N	NPT	C	Single Ferrule Tube Fitting	4	1/2" Pipe	D	For 12 mm Tube (Ø 12.2 mm)										
H	BSP Parallel (G) - DIN 3852	S	Swagelok	6	3/4" Pipe	E	For 14 mm Tube (Ø 14.25 mm)										
R	BSP Taper (R/Rc) - ISO 7/1	A	A-Lok	D	12 mm	2	For 1/4" Pipe										
		R	Rotarex	E	14 mm												
	<b>Inch Sizes</b>		<b>Tube Fitting Sizes</b>		<b>Wall Thickness Butt Weld</b>	A	<b>Socket Weld</b>										
2	1/4	1	6 resp. 6S	P	Schedule 80												
4	1/2	2	8 resp. 8S	Q	Schedule 160												
6	3/4	3	10 resp. 10S	2	2.0 mm												
		4	12 resp. 12S	8	2.6 mm												
		7	1/4"	A	3.2 mm												
		8	3/8"														
		9	1/2"														
<b>Options - Specify in alphabetical order (digits first, then letters)</b>																	
B	Cleaned and Lubricated for Oxygen Service – For PTFE Packing only																
F	PCTFE Soft Tip																
G	POM Soft Tip																
S	Stellite Valve Tip																
H	10,000 psi (689 bar)																
P	Power Piping ASME B31.1																
K	Arctic Operations (-55°C (-67°F)) – For PTFE Packing only																
M	Wetted Parts with 3.1 certificate																
C	Panel Mounting																
<b>Operation Options</b>																	
J	Stainless Steel Handwheel with Locking Plate Design																
T	Anti-Tamper Bonnet (Key to be ordered separately)																
R	Anti-Tamper Bonnet (1 Key supplied per Valve/Manifold)																
Q	AT-Key Lock Bonnet Design																
U	Padlock for Anti-Tamper Bonnet / AT-Key Lock Bonnet Design																
W	Stainless Steel Handwheel																

Wetted Parts according to above mentioned material list are supplied according to NACE MR0175/MR0103 and ISO 15156 (latest issue) - except Titanium Grade 2.  
 Note: Not every configuration which can be created in the ordering information is feasible / available.

# Gauge Valves

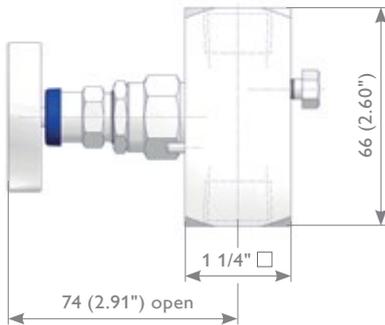
## Gauge Valves

AS-Schneider Gauge Valves are designed for mounting to Pressure Gauges, Pressure Transmitters and Pressure Switches. The standard types are equipped with a bleed screw. We are showing on this page just the standard types.

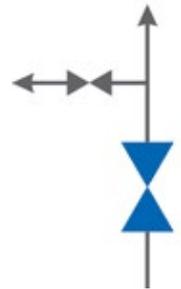
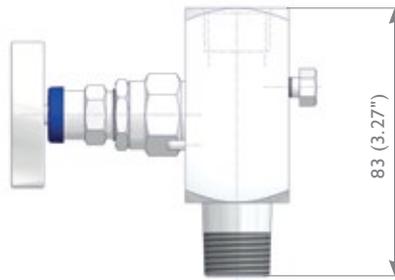
You find a lot more options on the next page – Ordering Information Gauge Valves. Accessories like Swivel Gauge Adaptors, Vent Valves etc. see Pages 48-53.

The dimensions shown apply only to the illustrated valves (1/2 NPT / G 1/2 Threaded) – if you need the dimensions for your individual type or should you still not find your options at all please contact the factory.

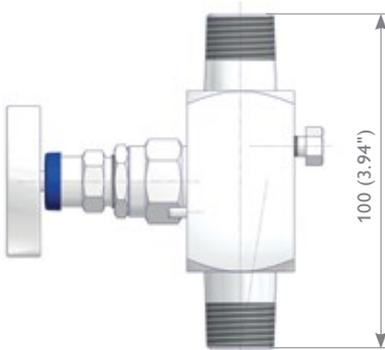
### Gauge Valve Female x Female Threaded GSFF Type



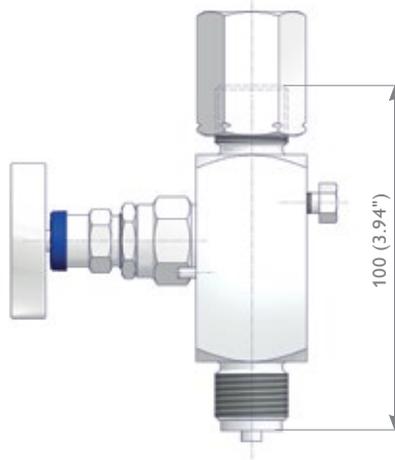
### Gauge Valve Male x Female Threaded GSMF Type



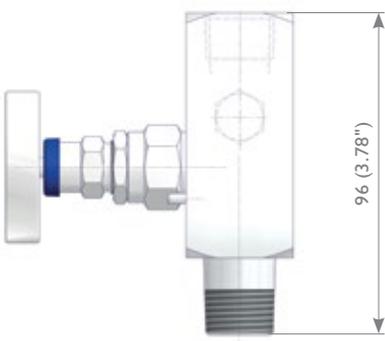
### Gauge Valve Male x Male Threaded GSMM Type



### Gauge Valve Male x Adjusting Nut GSMG Type



### Gauge Valve Male x Female Threaded GAMF Type



Female Threaded Vent Connection - Pipe Plug installed



## Ordering Information

				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
				G	S	M	F	S	B	-	N	4	N	4	-	M				
<b>G Gauge Valves</b>																				
<b>Vent Connection</b>																				
S	Bleed Screw	C	G 1/4 Female																	
A	1/4 NPT Female	D	G 1/2 Female																	
B	1/2 NPT Female																			
<b>Inlet</b>																				
M	Male	B	Butt Weld End																	
F	Female	S	Socket Weld End																	
T	Integral Tube Fitting	A	1/2 NPT with Tube Fitting																	
<b>Outlet</b>																				
M	Male	G	Adjusting Nut (For Connection Code G2, G4 and M4 only)																	
F	Female	D	Swivel Nut [Wire Design] (For Connection Code G2, G4 and M4 only)																	
<b>Material</b>																				
S	1.4401 / 1.4404 / 316 / 316L	F	Duplex UNS S31803	V	Alloy 625 UNS N06625															
M	Alloy 400 UNS N04400	D	Super Duplex UNS S32750	B	6Mo UNS S31254															
H	Alloy C-276 UNS N10276	2	Super Duplex UNS S32760	T	Titanium Grade 2															
<b>Bonnet</b>																				
A	PTFE	K	O-Ring FKM (FPM by ISO)																	
B	Graphite	W	Carbon filled PTFE – TA-Luft																	
D	ISO FE Series Type 1	2	Bellows sealed PN 100																	
E	ISO FE Series Type 3	4	Bellows sealed PN 250																	
<b>Inlet</b>																				
<b>Thread Type</b>		<b>Fitting Type</b>		<b>Butt Weld End</b>		<b>Socket Weld End</b>														
N	NPT	C	Single Ferrule Tube Fitting	4	1/2" Pipe	D	For 12 mm Tube (Ø 12.2 mm)													
G	BSP Parallel (G) – EN 837-1	S	Swagelok	6	3/4" Pipe	E	For 14 mm Tube (Ø 14.25 mm)													
H	BSP Parallel (G) – DIN 3852	A	A-Lok	D	12 mm	2	For 1/4" Pipe													
R	BSP Taper (R/Rc) – ISO 7/1	R	Rotarex	E	14 mm															
M	Metric similar to EN 837-1																			
<b>Inch Sizes</b>		<b>Tube Fitting Sizes</b>		<b>Wall Thickness Butt Weld</b>		<b>Socket Weld</b>														
2	1/4	4	12 resp. 12S	P	Schedule 80															
4	1/2	5	14 resp. 14S	Q	Schedule 160															
6	3/4	9	1/2"	2	2.0 mm															
				8	2.6 mm															
				A	3.2 mm															
<b>Metric Size</b>																				
4	M20 x 1.5																			
<b>Outlet</b>																				
<b>Male / Female Thread Sizes</b>		<b>Thread Sizes EN 837-1 - Female Threads only</b>																		
N2	1/4 NPT Female Thread only	G2	G 1/4 (1/4 BSP P)																	
N4	1/2 NPT	G4	G 1/2 (1/2 BSP P)																	
R4	R/Rc 1/2 – ISO 7/1 (1/2 BSPT) Female Thread only	M4	M20 x 1.5																	
<b>Options - Specify in alphabetical order (digits first, then letters)</b>																				
B	Cleaned and Lubricated for Oxygen Service – For PTFE Packing only																			
F	PCTFE Soft Tip																			
G	POM Soft Tip																			
S	Stellite Valve Tip																			
H	10,000 psi (689 bar)																			
P	Power Piping ASME B31.1																			
K	Arctic Operations (-55°C (-67°F)) – For PTFE Packing only																			
M	Wetted Parts with 3.1 certificate																			
C	Panel Mounting																			
<b>Operation Options</b>																				
J	Stainless Steel Handwheel with Locking Plate Design																			
T	Anti-Tamper Bonnet (Key to be ordered separately)																			
R	Anti-Tamper Bonnet (1 Key supplied per Valve/Manifold)																			
Q	AT-Key Lock Bonnet Design																			
U	Padlock for Anti-Tamper Bonnet / AT-Key Lock Bonnet Design																			
W	Stainless Steel Handwheel																			
<b>Accessory Kits</b>																				
8	SST Mounting Bracket AKM-S Type for 2" Pipe Mounting supplied separately – For Vertical Impulse Piping Installations																			

Wetted Parts according to above mentioned material list are supplied according to NACE MR0175/MR0103 and ISO 15156 (latest issue) - except Titanium Grade 2.  
 Note: Not every configuration which can be created in the ordering information is feasible / available.

# Multiport Gauge Valves

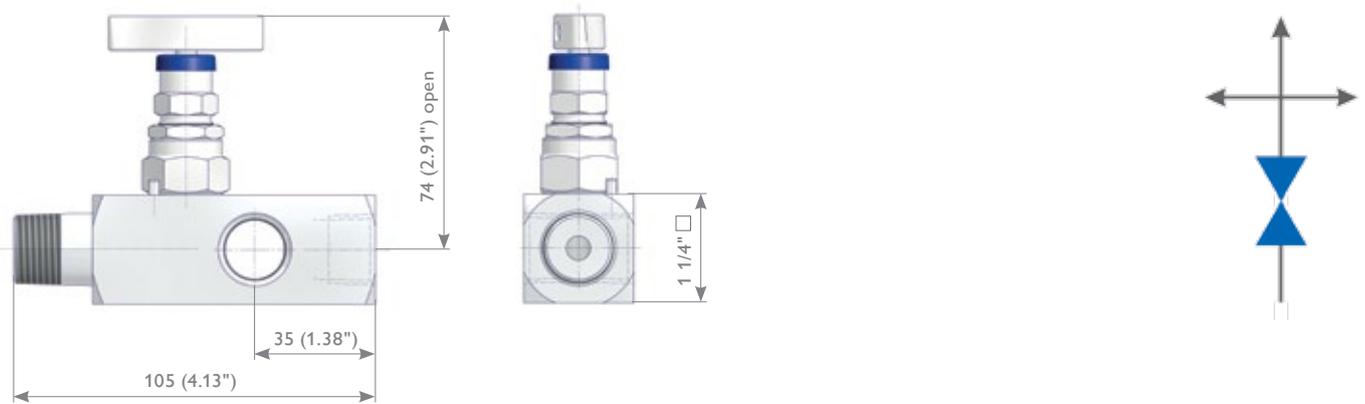
## Multiport Gauge Valves

AS-Schneider Multiport Gauge Valves are designed for mounting to Pressure Gauges, Pressure Transmitters and Pressure Switches. The standard types are provided with 3 female outlet ports and are therefore suitable for vertical or horizontal installations.

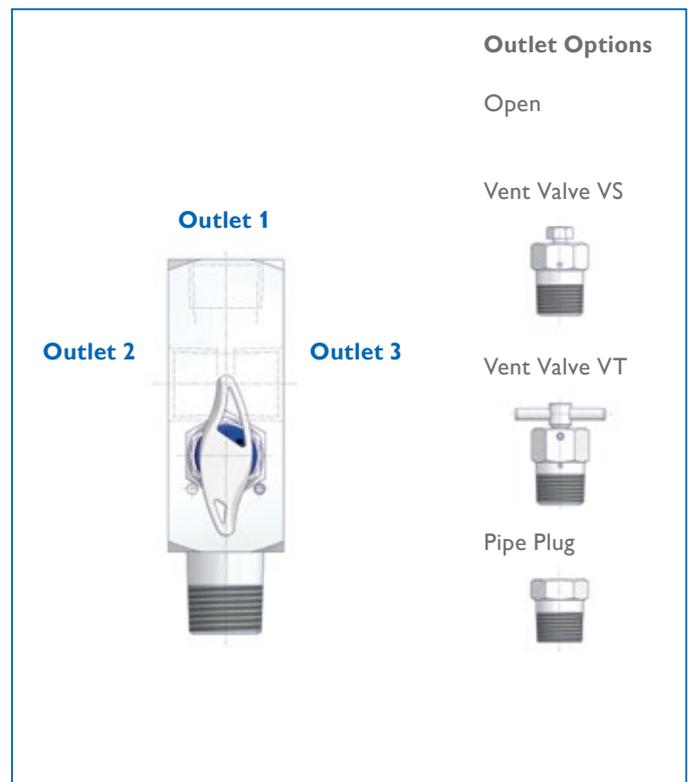
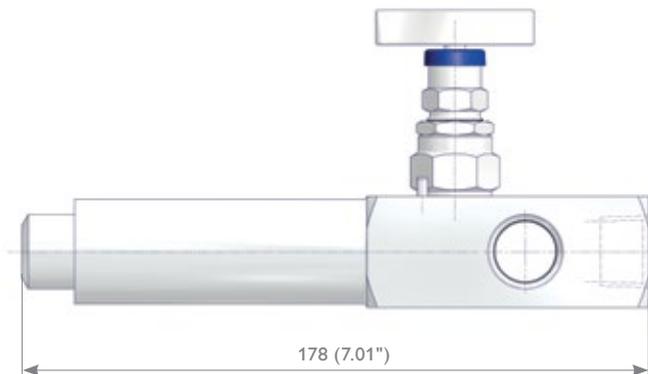
Accessories like Pipe Plugs and Vent Valves can be ordered separately or already factory installed – see also options next page – Ordering Information Multiport Gauge Valves. Accessories like Swivel Gauge Adaptors, Vent Valves etc. see Pages 48-53.

The dimensions shown apply only to the illustrated valves (1/2 NPT Threaded) – if you need the dimensions for your individual type or should you still not find your options at all please contact the factory.

### Multiport Gauge Valve – Screwed Bonnet MAMA Type



### Multiport Gauge Valve with Extended Body MXBA Type Extended by approx. 3"



## Ordering Information

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
M	A	B	B	S	A	-	6	P	N	4	-	S				
<b>M Multiport Gauge Valves</b>																
<b>Basic Design</b>																
A	Screwed Bonnet															
F	OS&Y Bonnet															
X	Extended Body (Screwed Bonnet)															
<b>Inlet</b>																
M	Male		B	Butt Weld End												
F	Female		S	Socket Weld End												
<b>Outlet</b>																
A	3 x Female															
B	Outlet 1 – Female, Outlet 2 – Pipe Plug, Outlet 3 – Vent Valve VS															
C	Outlet 1 – Female, Outlet 2 – Pipe Plug, Outlet 3 – Vent Valve VT															
D	Outlet 1 – Female, Outlet 2 and 3 – Pipe Plug															
<b>Material</b>																
S	1.4401 / 1.4404 / 316 / 316L		F	Duplex UNS S31803		V	Alloy 625 UNS N06625									
M	Alloy 400 UNS N04400		D	Super Duplex UNS S32750		B	6Mo UNS S31254									
H	Alloy C-276 UNS N10276		2	Super Duplex UNS S32760		T	Titanium Grade 2									
<b>Bonnet</b>																
A	PTFE		K	O-Ring FKM (FPM by ISO)												
B	Graphite		W	Carbon filled PTFE – TA-Luft												
D	ISO FE Series Type 1		2	Bellows sealed PN 100												
E	ISO FE Series Type 3		4	Bellows sealed PN 250												
<b>Inlet</b>																
<b>Thread Type</b>																
N	NPT		4	1/2" Pipe												
H	BSP Parallel (G) – DIN 3852		6	3/4" Pipe												
<b>Inch Sizes</b>																
2	1/4		P	Schedule 80												
4	1/2		Q	Schedule 160												
6	3/4		4	4.0 mm												
<b>Outlet</b>																
<b>Thread Sizes - Female Threads only</b>																
N2	1/4 NPT		H4	G 1/2 (1/2 BSP P) - DIN 3852												
N4	1/2 NPT															
<b>Options - Specify in alphabetical order (digits first, then letters)</b>																
B	Cleaned and Lubricated for Oxygen Service – For PTFE Packing only															
F	PCTFE Soft Tip															
G	POM Soft Tip															
S	Stellite Valve Tip															
H	10,000 psi (689 bar)															
P	Power Piping ASME B31.1															
K	Arctic Operations (-55°C (-67°F)) – For PTFE Packing only															
M	Wetted Parts with 3.1 certificate															
<b>Operation Options</b>																
J	Stainless Steel Handwheel with Locking Plate Design															
T	Anti-Tamper Bonnet (Key to be ordered separately)															
R	Anti-Tamper Bonnet (1 Key supplied per Valve/Manifold)															
Q	AT-Key Lock Bonnet Design															
U	Padlock for Anti-Tamper Bonnet / AT-Key Lock Bonnet Design															
W	Stainless Steel Handwheel															

Wetted Parts according to above mentioned material list are supplied according to NACE MR0175/MR0103 and ISO 15156 (latest issue) - except Titanium Grade 2.

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

# Block & Bleed and Double Block & Bleed Manifolds

## Block & Bleed and Double Block & Bleed Manifolds

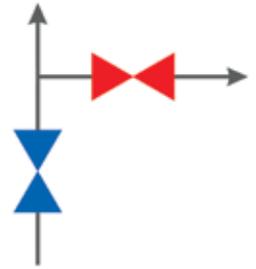
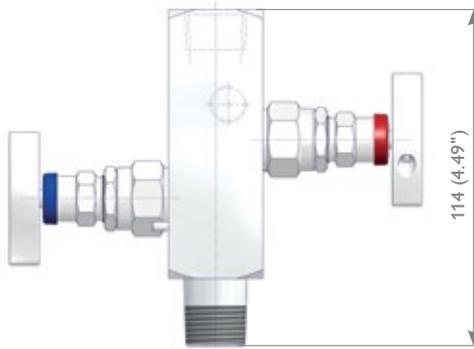
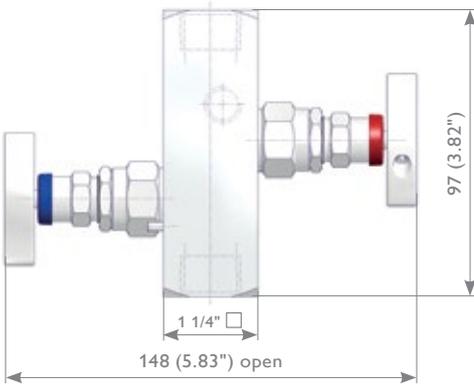
AS-Schneider Block & Bleed and Double Block & Bleed Manifolds are designed for mounting to Pressure Gauges, Pressure Transmitters and Pressure Switches. The standard vent connection is 1/4 NPT female. Pipe plugs are not installed as standard. For plugged vent ports (factory installed) – see also options next page – Ordering Information Block & Bleed Manifolds. Accessories like Swivel Gauge Adaptors, Vent Valves etc. see Pages 48-53.

The dimensions shown apply only to the illustrated valves (1/2 NPT Threaded) – if you need the dimensions for your individual type or should you still not find your options at all please contact the factory.

### Block & Bleed Manifolds – Female Threaded Instrument Connection

SAFF Type

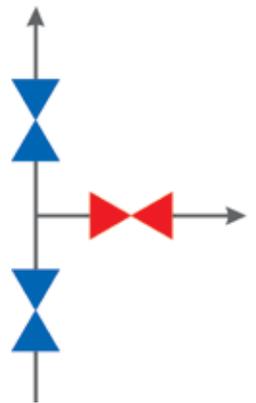
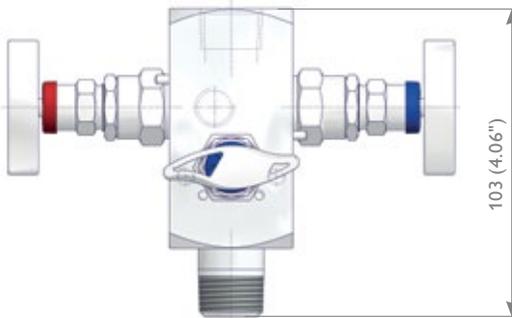
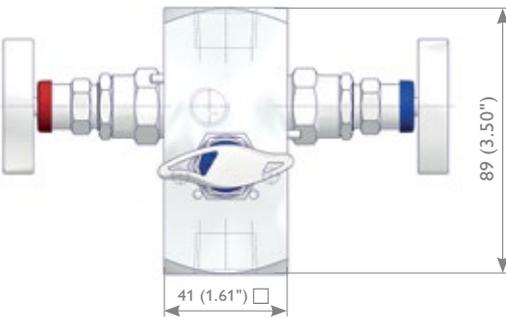
SAMF Type



### Double Block & Bleed Manifolds – Female Threaded Instrument Connection

CAFF Type

CAMF Type



# Block & Bleed and Double Block & Bleed Manifolds

## Ordering Information

				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
				S	A	M	F	M	A	-	N	4	N	4	-	Q	U	9			
<b>S Block &amp; Bleed Manifolds</b>																					
<b>C Double Block &amp; Bleed Manifolds</b>																					
<b>Vent Connection</b>																					
A	1/4 NPT Female			C	G 1/4 Female																
B	1/2 NPT Female			D	G 1/2 Female																
<b>Inlet</b>																					
M	Male			B	Butt Weld End																
F	Female			S	Socket Weld End																
T	Integral Tube Fitting			A	1/2 NPT with Tube Fitting																
<b>Outlet</b>																					
M	Male			G	Adjusting Nut (For Connection Code G2, G4 and M4 only)																
F	Female			D	Swivel Nut [Wire Design] (For Connection Code G2, G4 and M4 only)																
<b>Material</b>																					
S	1.4401 / 1.4404 / 316 / 316L			F	Duplex UNS S31803			V	Alloy 625 UNS N06625												
M	Alloy 400 UNS N04400			D	Super Duplex UNS S32750			B	6Mo UNS S31254												
H	Alloy C-276 UNS N10276			2	Super Duplex UNS S32760			T	Titanium Grade 2												
<b>Bonnet</b>																					
A	PTFE			K	O-Ring FKM (FPM by ISO)																
B	Graphite			W	Carbon filled PTFE – TA-Luft																
D	ISO FE Series Type 1			2	Bellows sealed PN 100																
E	ISO FE Series Type 3			4	Bellows sealed PN 250																
<b>Inlet</b>																					
<b>Thread Type</b>		<b>Fitting Type</b>		<b>Butt Weld End</b>		<b>Socket Weld End</b>															
N	NPT		C	Single Ferrule Tube Fitting		4	1/2" Pipe		D	For 12 mm Tube (Ø 12.2 mm)											
G	BSP Parallel (G) – EN 837-1		S	Swagelok		6	3/4" Pipe		E	For 14 mm Tube (Ø 14.25 mm)											
H	BSP Parallel (G) – DIN 3852		A	A-Lok		D	12 mm		2	For 1/4" Pipe											
R	BSP Taper (R/Rc) – ISO 7/1		R	Rotarex		E	14 mm														
M	Metric similar to EN 837-1																				
<b>Inch Sizes</b>		<b>Tube Fitting Sizes</b>		<b>Wall Thickness Butt Weld</b>		<b>A Socket Weld</b>															
2	1/4		4	12 resp. 12S		P	Schedule 80														
4	1/2		5	14 resp. 14S		Q	Schedule 160														
6	3/4		9	1/2"		2	2.0 mm														
						8	2.6 mm														
						A	3.2 mm														
<b>Metric Size</b>																					
4	M20 x 1.5																				
<b>Outlet</b>																					
<b>Male / Female Thread Sizes</b>				<b>Thread Sizes EN 837-1 - Female Threads only</b>																	
N2	1/4 NPT Female Thread only			G2	G 1/4 (1/4 BSP P)																
N4	1/2 NPT			G4	G 1/2 (1/2 BSP P)																
R4	R/Rc 1/2 – ISO 7/1 (1/2 BSPT) Female Thread only			M4	M20 x 1.5																
<b>Options - Specify in alphabetical order (digits first, then letters)</b>																					
B	Cleaned and Lubricated for Oxygen Service – For PTFE Packing only																				
F	PCTFE Soft Tip																				
G	POM Soft Tip																				
S	Stellite Valve Tip																				
A	Vent Ports Plugged																				
H	10,000 psi (689 bar)																				
P	Power Piping ASME B31.1																				
K	Arctic Operations (-55°C (-67°F)) – For PTFE Packing only																				
M	Wetted Parts with 3.1 certificate																				
<b>Operation Options</b>																					
J	Stainless Steel Handwheel with Locking Plate Design																				
T	Anti-Tamper Bonnet (Key to be ordered separately)																				
R	Anti-Tamper Bonnet (1 Key supplied per Valve/Manifold)																				
Q	AT-Key Lock Bonnet Design																				
U	Padlock for Anti-Tamper Bonnet / AT-Key Lock Bonnet Design																				
W	Stainless Steel Handwheel																				
<b>Accessory Kits</b>																					
8	SST Mounting Bracket AKM-S Type for 2" Pipe Mounting supplied separately – For Vertical Impulse Piping Installations																				
9	SST Mounting Bracket AKM-G Type for 2" Pipe Mounting supplied separately – For Vertical Impulse Piping Installations																				

Wetted Parts according to above mentioned material list are supplied according to NACE MR0175/MR0103 and ISO 15156 (latest issue) - except Titanium Grade 2.  
 Note: Not every configuration which can be created in the ordering information is feasible / available.

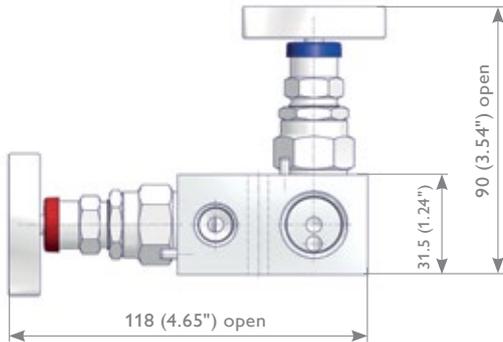
# L, Y & W-Shaped Manifolds

## L, Y & W-Shaped Manifolds

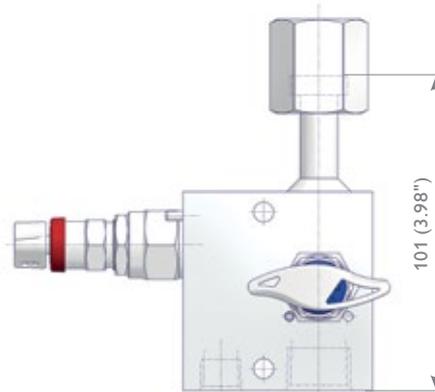
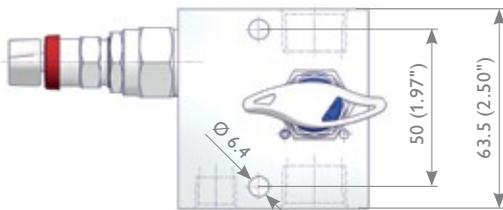
AS-Schneider L, Y & W-Shaped Manifolds are designed for mounting to Pressure Gauges, Pressure Transmitters and Pressure Switches. The standard vent connection is 1/4 NPT female. Pipe plugs are not installed as standard. For plugged vent ports (factory installed) – see also options Page 24 – Ordering Information L, Y & W-Shaped Manifolds. Accessories like Swivel Gauge Adaptors, Vent Valves etc. see Pages 48-53.

The dimensions shown apply only to the illustrated valves (1/2 NPT Threaded) – if you need the dimensions for your individual type or should you still not find your options at all please contact the factory.

### L-Shaped Manifolds

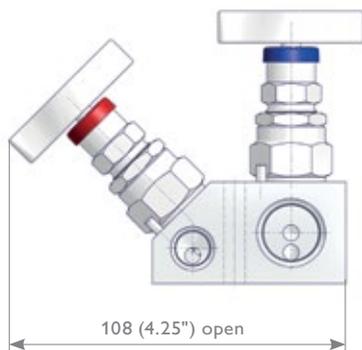


PLAA Type

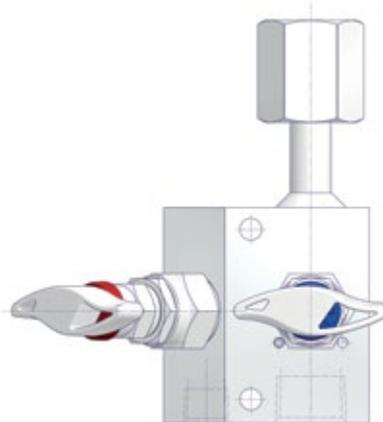
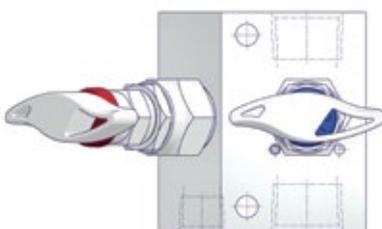


PLAB Type

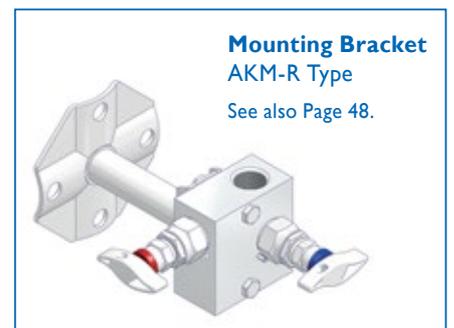
### Y-Shaped Manifolds



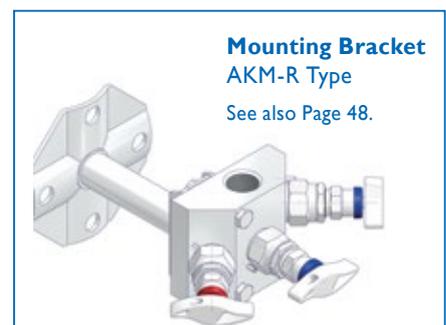
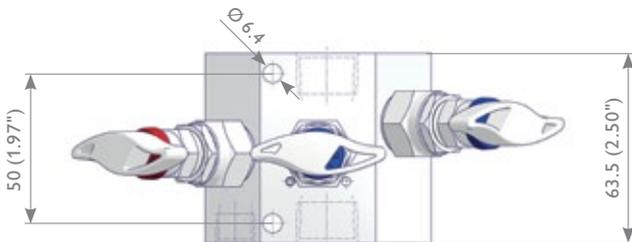
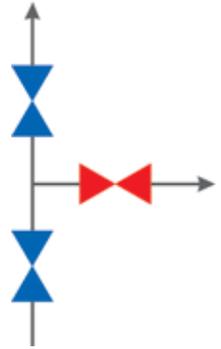
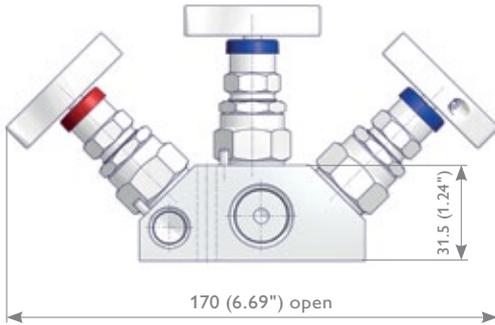
PYAA Type



PYAB Type



## W-Shaped Manifolds PWAA Type



# L, Y & W-Shaped Manifolds

## Ordering Information

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
	P	L	A	B	S	A	-	N	4	G	4	-	A	M	S			
<b>P</b>	<b>L, Y &amp; W-Shaped Manifolds</b>																	
	<b>Manifold Type</b>																	
L	L-Shaped Bonnet Orientation																	
Y	Y-Shaped Bonnet Orientation																	
W	W-Shaped Bonnet Orientation → Double Block & Bleed Type																	
	<b>Vent Connection</b>																	
A	1/4 NPT Female				F	1/4 NPT with Tube Fitting 6 mm												
B	1/2 NPT Female – Only Type PL...				G	1/4 NPT with Tube Fitting 12 mm												
C	G 1/4 Female				H	G 1/4 with Tube Fitting 6 mm												
D	G 1/2 Female – Only Type PL...				J	G 1/4 with Tube Fitting 12 mm												
Tube Fitting Brand see inlet/outlet																		
	<b>Inlet x Outlet Configuration</b>																	
A	Female x Female				E	G 1/2 with Tube Fitting x Female												
B	Female x Swivel Nut				F	G 1/2 with Tube Fitting x Swivel Nut												
C	1/2 NPT with Tube Fitting x Female																	
D	1/2 NPT with Tube Fitting x Swivel Nut																	
	<b>Material</b>																	
S	1.4401 / 1.4404 / 316 / 316L				F	Duplex UNS S31803				V	Alloy 625 UNS N06625							
M	Alloy 400 UNS N04400				D	Super Duplex UNS S32750				B	6Mo UNS S31254							
H	Alloy C-276 UNS N10276				2	Super Duplex UNS S32760				T	Titanium Grade 2							
	<b>Bonnet</b>																	
A	PTFE				K	O-Ring FKM (FPM by ISO)												
B	Graphite				W	Carbon filled PTFE – TA-Luft												
D	ISO FE Series Type 1				2	Bellows sealed PN 100												
E	ISO FE Series Type 3				4	Bellows sealed PN 250												
	<b>Inlet</b>																	
	<b>Thread Type</b>				<b>Fitting Type</b>													
N	NPT				C	Single Ferrule Tube Fitting												
H	BSP Parallel (G) – DIN 3852				S	Swagelok												
				A	A-Lok													
				R	Rotarex													
	<b>Thread Size</b>				<b>Tube Fitting Sizes</b>													
2	1/4				4	12 resp. 12S												
4	1/2				9	1/2"												
	<b>Outlet</b>																	
	<b>Thread Type</b>																	
N4	1/2 NPT Female																	
G4	G 1/2 Swivel Nut																	
M4	M20 x 1.5 Swivel Nut																	
	<b>Options - Specify in alphabetical order (digits first, then letters)</b>																	
B	Cleaned and Lubricated for Oxygen Service – For PTFE Packing only																	
F	PCTFE Soft Tip																	
G	POM Soft Tip																	
S	Stellite Valve Tip																	
A	Vent Ports Plugged																	
H	10,000 psi (689 bar)																	
P	Power Piping ASME B31.1																	
K	Arctic Operations (-55°C (-67°F)) – For PTFE Packing only																	
M	Wetted Parts with 3.1 certificate																	
	<b>Operation Options</b>																	
J	Stainless Steel Handwheel with Locking Plate Design																	
T	Anti-Tamper Bonnet (Key to be ordered separately)																	
R	Anti-Tamper Bonnet (1 Key supplied per Valve/Manifold)																	
Q	AT-Key Lock Bonnet Design																	
U	Padlock for Anti-Tamper Bonnet / AT-Key Lock Bonnet Design																	
W	Stainless Steel Handwheel																	
	<b>Accessory Kits</b>																	
8	SST Mounting Bracket AKM-R Type for 2" Pipe Mounting supplied separately – For Vertical Impulse Piping Installations																	

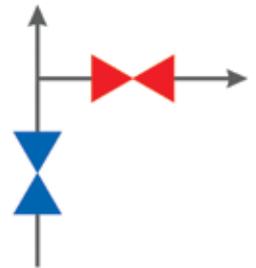
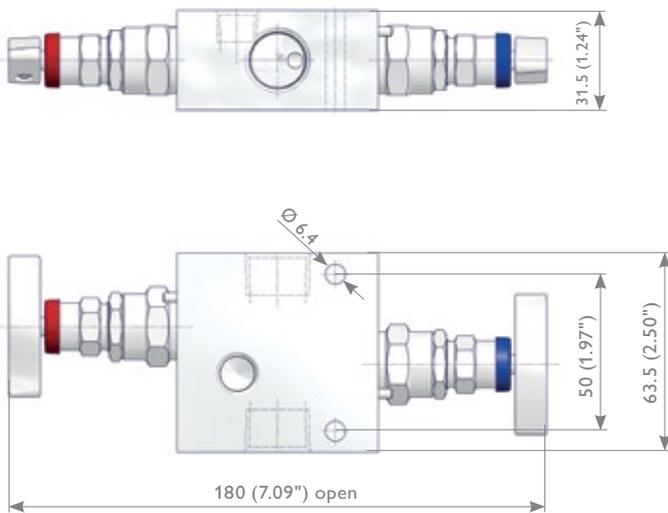
Wetted Parts according to above mentioned material list are supplied according to NACE MR0175/MR0103 and ISO 15156 (latest issue) - except Titanium Grade 2.  
Note: Not every configuration which can be created in the ordering information is feasible / available.

## Remote Mounted Manifolds (2, 3 and 5 Valve Manifolds)

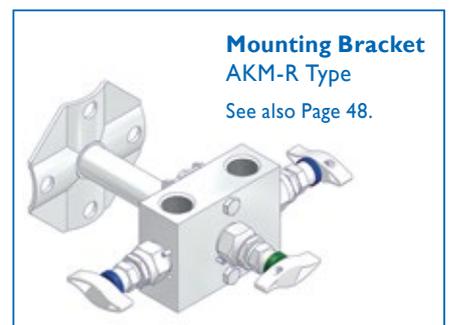
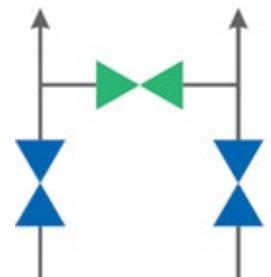
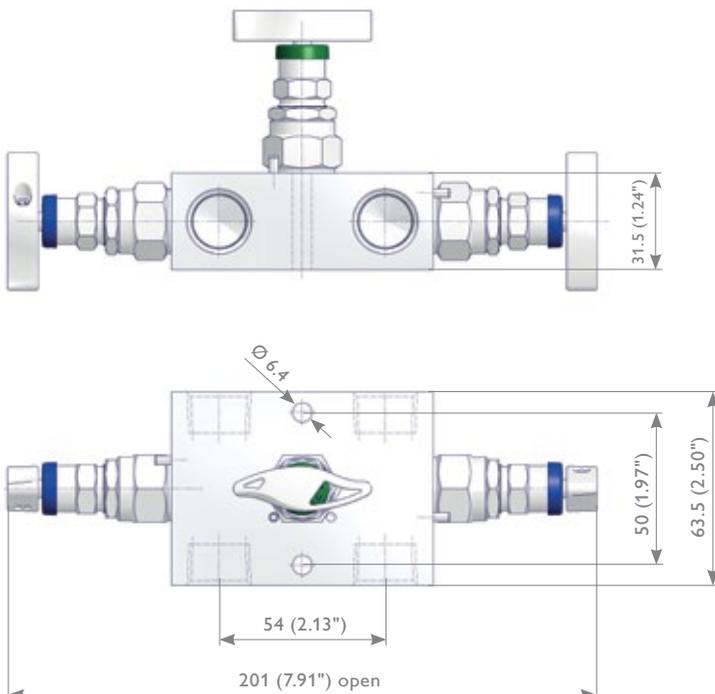
AS-Schneider Remote Mounted Manifolds are designed for remote installation from Pressure Instruments and Differential Pressure Transmitters. The standard vent connection is 1/4 NPT female. Pipe plugs are not installed as standard to 2 and 5 Valve Manifolds. For plugged vent ports (factory installed) - see also options Page 27 - Ordering Information Remote Mounted Manifolds. The standard type of 3 Valve Manifolds is the one without vent connection. The 3 Valve Manifolds with vent connection are supplied with installed pipe plugs as standard. Accessories like Mounting Brackets, Swivel Gauge Adaptors, Pipe Plugs etc. see also Pages 48-53.

The dimensions shown apply only to the illustrated valves (1/2 NPT Threaded) – if you need the dimensions for your individual type or should you still not find your options at all please contact the factory.

### 2 Valve Manifolds, Remote Mounted R2AA Type

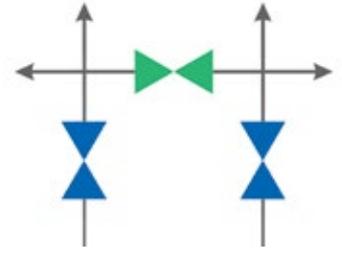
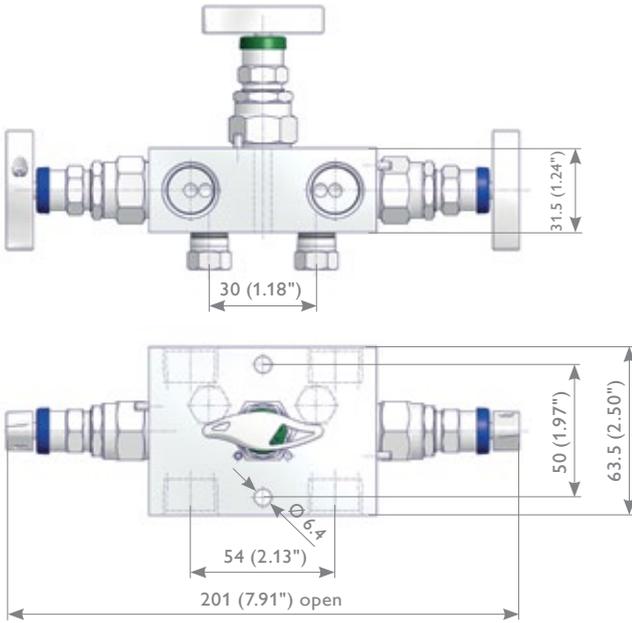


### 3 Valve Manifolds, Remote Mounted without Vent Connection R3AA Type



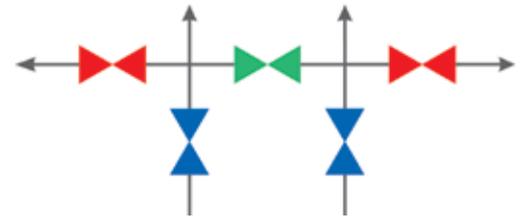
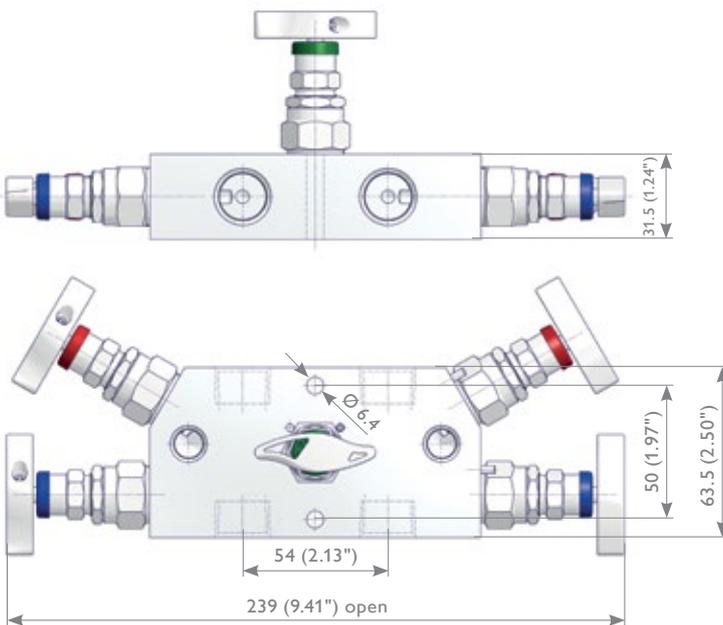
# Remote Mounted Manifolds

## 3 Valve Manifolds, Remote Mounted with Vent Connection 1/4 NPT Female R3BA Type

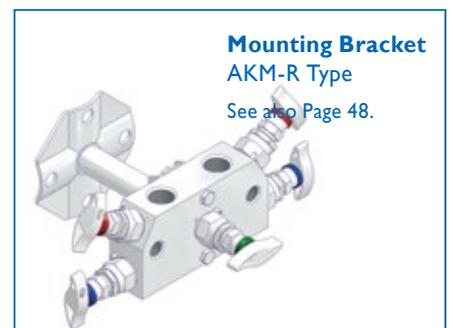
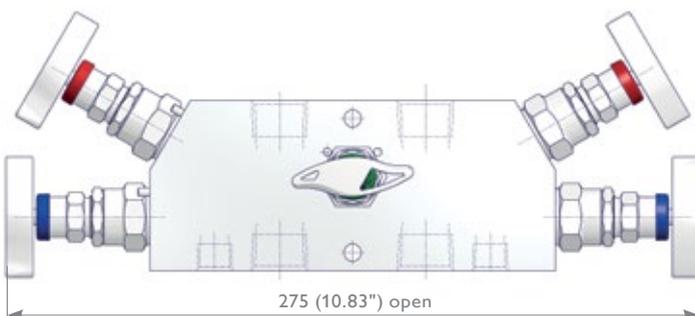


AKM-R Type Mounting Bracket not suitable.

## 5 Valve Manifolds, Remote Mounted R5AA Type



## Vent Ports on Process Side R5GA Type



## Ordering Information

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
R	3	B	C	H	A	-	S	9	S	9	-	R	U			
<b>Remote Mounted Manifolds</b>																
<b>Quantity Bonnets – 2, 3 or 5</b>																
<b>Vent Connection</b>																
A	Standard – 2 Valve / 5 Valve Manifold with Vent Ports 1/4 NPT Female, 3 Valve Manifold without Vent Port															
B	Vent Ports 1/4 NPT Female – For 3 Valve Manifolds only															
C	G 1/4 Female															
G	Vent Ports on Process Side of the 5 Valve Manifold															
<b>Inlet and Outlet</b>																
A	Female Connections															
B	1/4 NPT with Tube Fittings															
C	1/2 NPT with Tube Fittings															
D	G 1/2 with Tube Fittings															
<b>Material</b>																
S	1.4401 / 1.4404 / 316 / 316L	F	Duplex UNS S31803	V	Alloy 625 UNS N06625											
M	Alloy 400 UNS N04400	D	Super Duplex UNS S32750	B	6Mo UNS S31254											
H	Alloy C-276 UNS N10276	2	Super Duplex UNS S32760	T	Titanium Grade 2											
<b>Bonnet</b>																
A	PTFE			K	O-Ring FKM (FPM by ISO)											
B	Graphite			W	Carbon filled PTFE – TA-Luft											
D	ISO FE Series Type 1			2	Bellows sealed PN 100											
E	ISO FE Series Type 3			4	Bellows sealed PN 250											
<b>Inlet</b>																
<b>Thread Type</b>																
N	NPT			C	Single Ferrule Tube Fitting											
H	BSP Parallel (G) – DIN 3852			S	Swagelok											
				A	A-Lok											
				R	Rotarex											
<b>Thread Size</b>																
2	1/4			4	12 resp. 12S											
4	1/2			9	1/2"											
<b>Outlet</b>																
<b>Thread Type</b>																
N	NPT			C	Single Ferrule Tube Fitting											
H	BSP Parallel (G) - DIN 3852			S	Swagelok											
				A	A-Lok											
<b>Thread Size</b>																
2	1/4			4	12 resp. 12S											
4	1/2			9	1/2"											
<b>Options - Specify in alphabetical order (digits first, then letters)</b>																
B	Cleaned and Lubricated for Oxygen Service – For PTFE Packing only															
F	PCTFE Soft Tip															
G	POM Soft Tip															
S	Stellite Valve Tip															
A	Vent Ports Plugged															
H	10,000 psi (689 bar)															
P	Power Piping ASME B31.1															
K	Arctic Operations (-55°C (-67°F)) – For PTFE Packing only															
M	Wetted Parts with 3.1 certificate															
<b>Operation Options</b>																
J	Stainless Steel Handwheel with Locking Plate Design															
T	Anti-Tamper Bonnet (Key to be ordered separately)															
R	Anti-Tamper Bonnet (1 Key supplied per Valve/Manifold)															
Q	AT-Key Lock Bonnet Design															
U	Padlock for Anti-Tamper Bonnet / AT-Key Lock Bonnet Design															
W	Stainless Steel Handwheel															
<b>Accessory Kits</b>																
8	SST Mounting Bracket AKM-R Type for 2" Pipe Mounting supplied separately – For Vertical Impulse Piping Installations															

Wetted Parts according to a.m. material list are supplied according to NACE MR0175/MR0103 and ISO 15156 (latest issue) - except Titanium Grade 2.  
 Note: Not every configuration which can be created in the ordering information is feasible / available.

# Direct Mount Manifolds - Wafer Style

## Direct Mount Manifolds (2, 3 and 5 Valve Manifolds)

AS-Schneider Direct Mount Manifolds are designed for direct mounting to Pressure and Differential Pressure Transmitters – either Transmitters with standard flange connection in accordance with DIN EN 61518 / IEC 61518 or alternatively to Rosemount 2051/3051 Coplanar™ Pressure Transmitters. The standard vent connection is 1/4 NPT female. Pipe plugs are not installed as standard to 2 and 5 Valve Manifolds. For plugged vent ports (factory installed) and other options see Page 33, 37 and 40 – Ordering Information Direct Mount Manifolds.

The standard type of 3 Valve Manifolds is the one without vent connection. 3 Valve Manifolds with vent connection are supplied with installed pipe plugs as standard. Integral Style 3 Valve Manifolds with Coplanar™ flange connection are provided with vent connections 1/4 NPT female as standard – plugged with vent valves type VS.

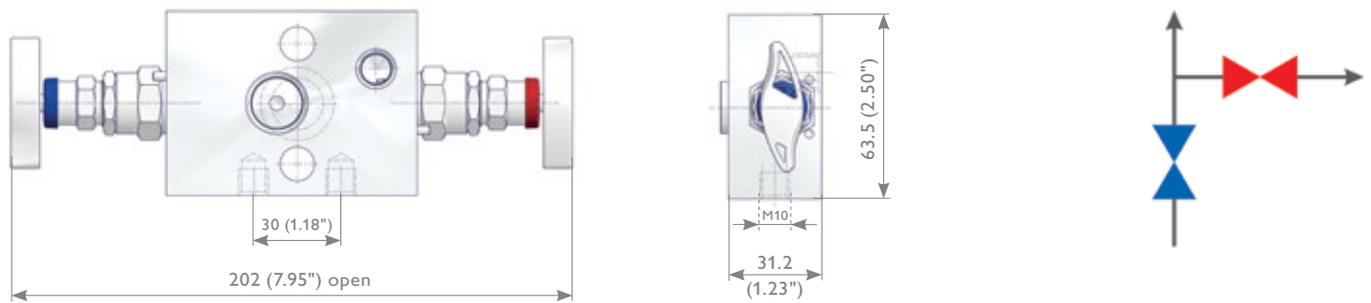
We differentiate between Wafer Style Manifolds (see Page 28-33) and Traditional Style Manifolds (see Page 34-37), the Wafer Type for the Rosemount 2051/3051 Coplanar™ Pressure Transmitter is just called Coplanar™ Style Manifold. You will find the Integral Manifolds for 2051/3051 Coplanar™ Pressure Transmitters on Page 38-40. Accessories like Swivel Gauge Adaptors, Vent Valves etc. see Pages 48-53.

The dimensions shown apply only to the illustrated valves (1/2 NPT Threaded / Flange Interface DIN EN 61518) – if you need the dimensions for your individual type or should you still not find your options at all please contact the factory.

## Wafer Style Manifolds

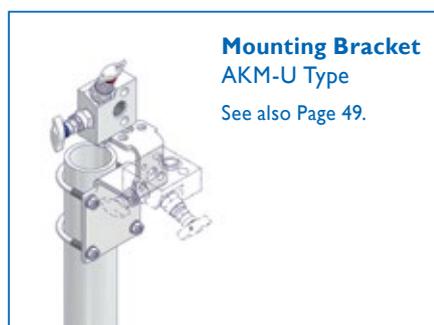
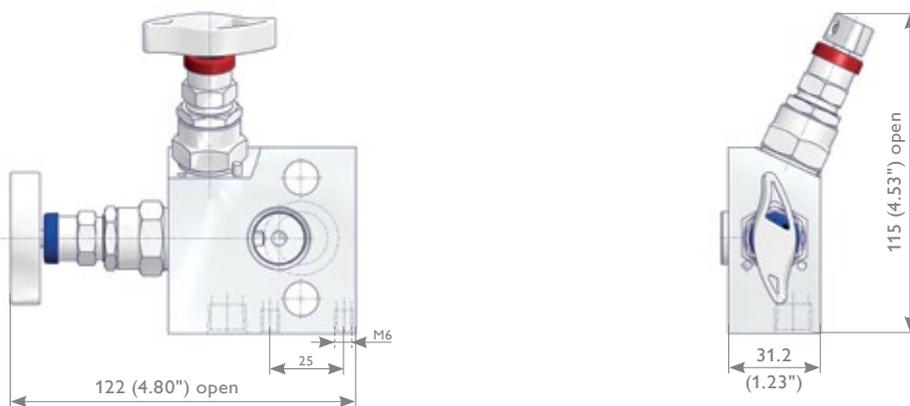
### 2 Valve Manifolds – Standard

W2AA Type



### 2 Valve Manifolds – L-Shaped Bonnet Orientation

W2LA Type

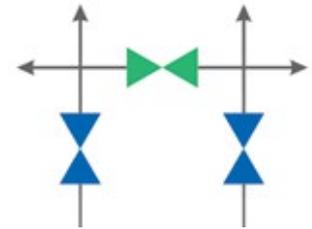
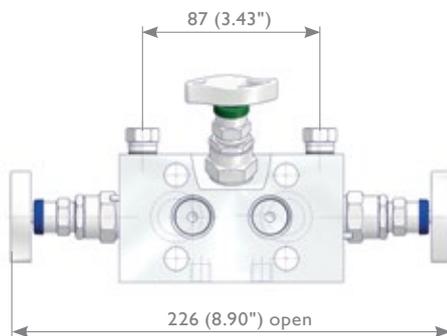
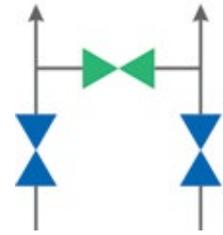
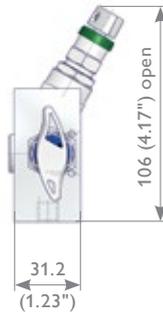
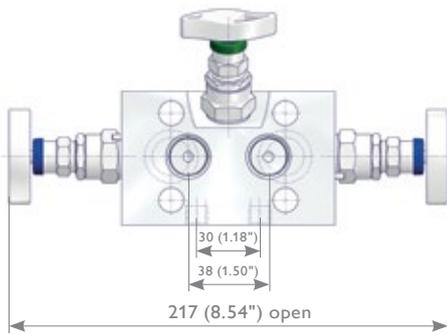


# Direct Mount Manifolds - Wafer Style

## 3 Valve Manifolds – Standard (Female x Flanged)

Without Vent Connection W3AA Type

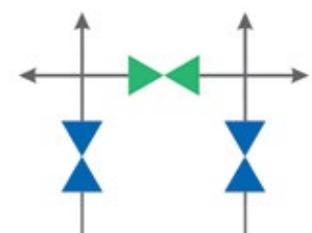
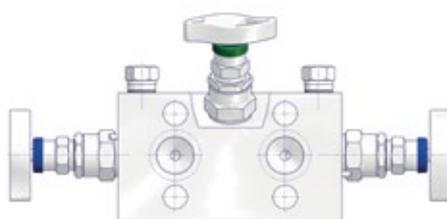
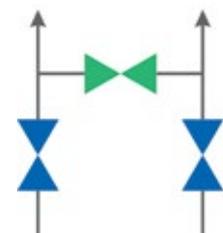
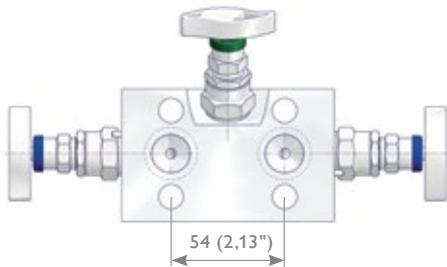
With Vent Connection W3BA Type



## 3 Valve Manifolds – Standard (Flanged x Flanged)

Without Vent Connection W3AB Type

With Vent Connection W3BB Type

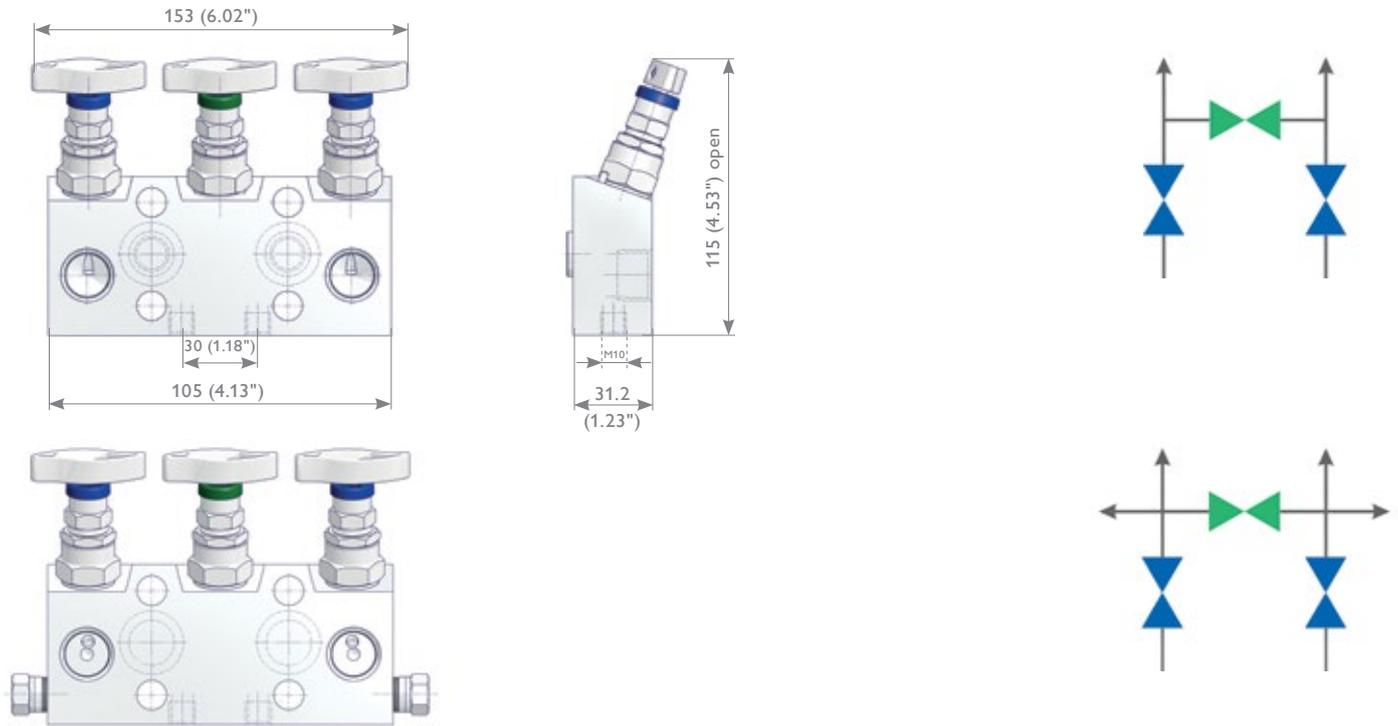


# Direct Mount Manifolds - Wafer Style

## 3 Valve Manifolds – Compact Design (Female x Flanged)

Without Vent Connection W3CA Type

With Vent Connection 1/4 NPT Female W3DA Type



## 3 Valve Manifolds – Bottom Inlet Design (Female x Flanged)

W3EA Type



### For Bottom Inlet Design only

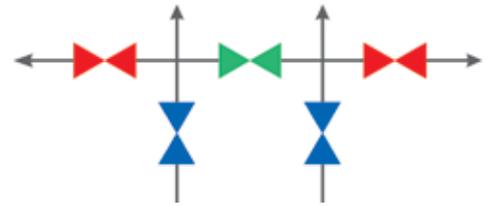
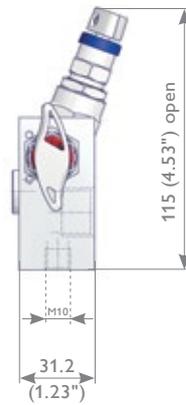
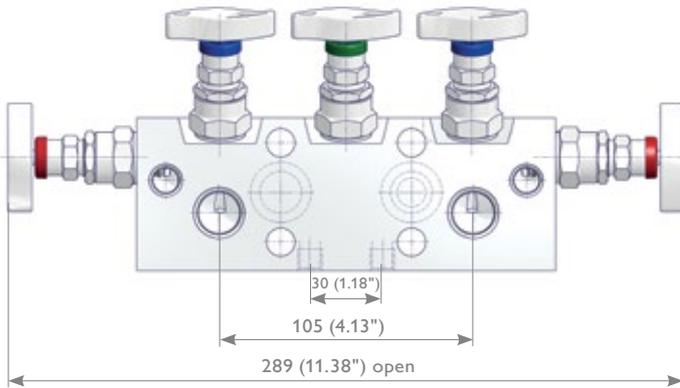


### For Compact Design

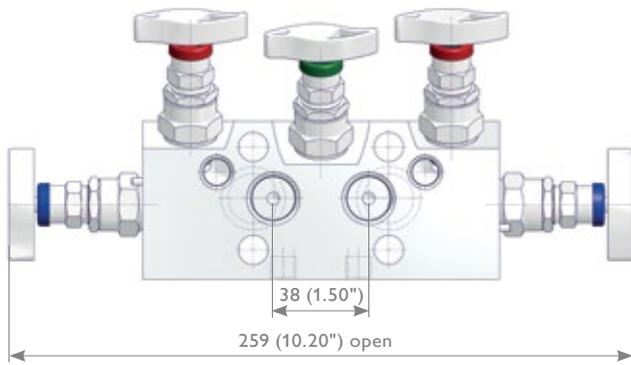


# Direct Mount Manifolds - Wafer Style

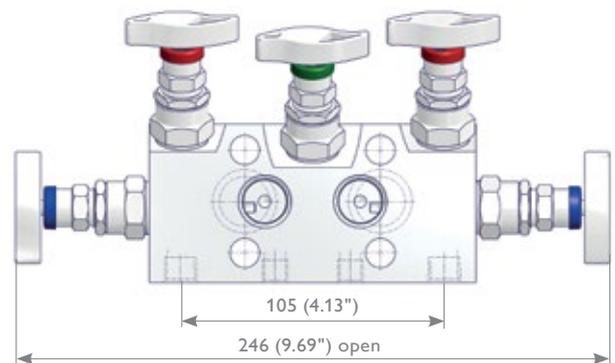
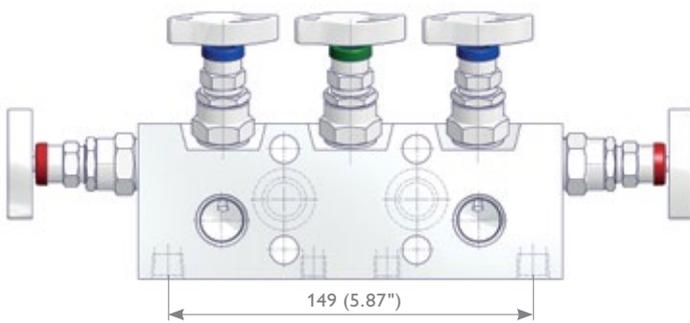
## 5 Valve Manifolds – Standard (Female x Flanged IEC 61518-A) W5AA Type



## 5 Valve Manifolds – Female x Flanged IEC 61518-B W5AA Type

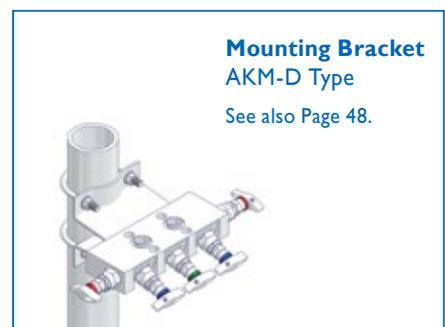


## 5 Valve Manifolds – Female x Flanged Vent Ports on Bottom Face W5GA Type



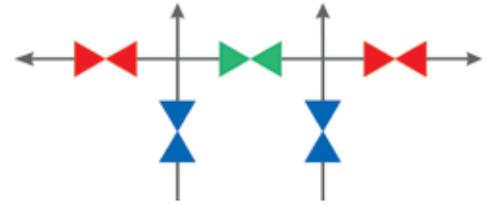
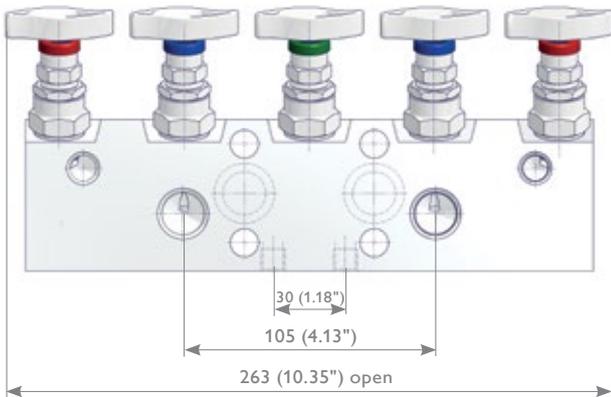
Illustrated type with IEC 61518-A connection

Illustrated type with IEC 61518-B connection  
Only suitable for AKM-U type Mounting Bracket

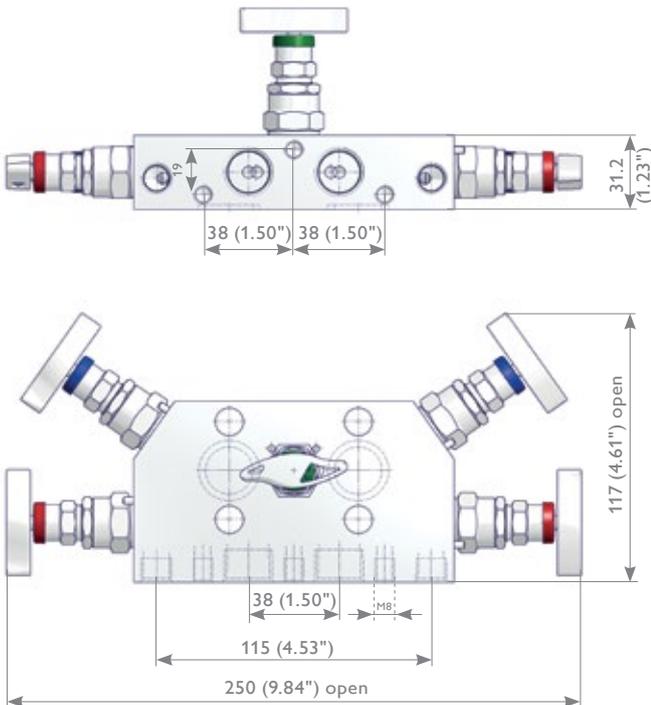


# Direct Mount Manifolds - Wafer Style

## 5 Valve Manifolds – Compact Design (Female x Flanged) W5CA Type



## 5 Valve Manifolds – Bottom Inlet Design (Female x Flanged) W5EA Type

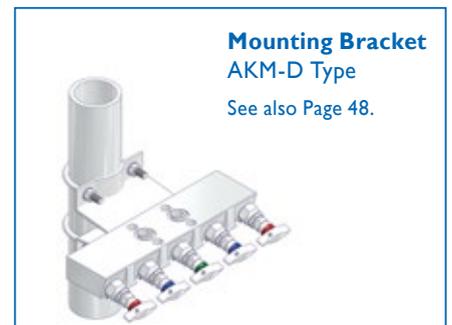


For Bottom Inlet Design only



**Mounting Bracket**  
AKM-B Type  
See also Page 48.

For Compact Design



**Mounting Bracket**  
AKM-D Type  
See also Page 48.

# Direct Mount Manifolds - Wafer Style

## Ordering Information

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
	W	2	A	A	S	B	-	N	4	T	E	-	A	P	S		
<b>W Wafer Style Manifolds</b>																	
<b>Quantity Bonnets – 2-5</b>																	
<b>Manifold Specifics</b>																	
A	Standard – 2 Valve / 5 Valve Manifold with Vent Ports 1/4 NPT Female, 3 Valve Manifold without Vent Port																
B	Vent Ports 1/4 NPT Female Plugged – For 3 Valve Manifolds only <sup>*2</sup>																
C	Compact Design – 5 Valve Manifold with Vent Ports 1/4 NPT Female, 3 Valve Manifold without Vent Port																
D	Compact Design – 3 Valve Manifold with Vent Port 1/4 NPT Female																
E	Bottom Inlet Design																
G	Vent Ports on Bottom Face of the 5 Valve Manifold																
L	L-Shaped Bonnet Orientation																
<b>Inlet</b>																	
A	Female																
B	Flanged																
C	1/2 NPT with Tube Fittings																
D	G 1/2 with Tube Fittings																
<b>Material</b>																	
S	1.4401 / 1.4404 / 316 / 316L	F	Duplex UNS S31803				V	Alloy 625 UNS N06625									
M	Alloy 400 UNS N04400	D	Super Duplex UNS S32750				B	6Mo UNS S31254									
H	Alloy C-276 UNS N10276	2	Super Duplex UNS S32760				T	Titanium Grade 2									
<b>Bonnet</b>																	
A	PTFE		K	O-Ring FKM (FPM by ISO)													
B	Graphite		W	Carbon filled PTFE – TA-Luft													
D	ISO FE Series Type 1		2	Bellows sealed PN 100													
E	ISO FE Series Type 3		4	Bellows sealed PN 250													
<b>Inlet</b>																	
<b>Thread Type</b>																	
N	NPT		C	Single Ferrule Tube Fitting				T	Flange Interface								
H	BSP Parallel (G) – DIN 3852		S	Swagelok													
			A	A-Lok													
			R	Rotarex													
<b>Thread Size</b>																	
2	1/4		4	12 resp. 12S				4	EN 61518 without 1/4 NPT								
4	1/2		5	14 resp. 14S													
			9	1/2"													
<b>Outlet</b>																	
<b>Transmitter Interface</b>																	
TD	DIN EN 61518-A																
TE	DIN EN 61518-B																
<b>Options - Specify in alphabetical order (digits first, then letters)</b>																	
B	Cleaned and Lubricated for Oxygen Service – For PTFE Packing only																
F	PCTFE Soft Tip																
G	POM Soft Tip																
S	Stellite Valve Tip																
A	Vent Ports Plugged <sup>*2</sup>																
P	Power Piping ASME B31.1																
K	Arctic Operations (-55°C (-67°F)) – For PTFE Packing only																
M	Wetted Parts with 3.1 certificate																
<b>Operation Options</b>																	
J	Stainless Steel Handwheel with Locking Plate Design																
T	Anti-Tamper Bonnet (Key to be ordered separately)																
R	Anti-Tamper Bonnet (1 Key supplied per Valve/Manifold)																
Q	AT-Key Lock Bonnet Design																
U	Padlock for Anti-Tamper Bonnet / AT-Key Lock Bonnet Design																
WV	Stainless Steel Handwheel																
<b>Standard Accessory Kits for Manifold to Transmitter mounting according to DIN EN 61518 / IEC 61518**</b>																	
1	Hex Cap Screw 7/16-20 UNF, Bolt Length 1 3/4", C.S., PTFE Seal Rings																
2	Hex Cap Screw 7/16-20 UNF, Bolt Length 1 3/4", Bolt Material S.S. = 304 Stainless Steel I ASTM A193 B8 Class 2, PTFE Seal Rings																
3	Hex Cap Screw 7/16-20 UNF, Bolt Length 1 3/4", C.S., Graphite Seal Rings																
4	Hex Cap Screw 7/16-20 UNF, Bolt Length 1 3/4", Bolt Material S.S. = 304 Stainless Steel I ASTM A193 B8 Class 2, Graphite Seal Rings																
<b>Mounting Bracket Kits</b>																	
7	CST Mounting Bracket AKM-D Type for 2" Pipe Mounting supplied separately – For Vertical Impulse Piping Installations <sup>*1, *3</sup>																
8	SST Mounting Bracket AKM-B, or -D Type for 2" Pipe Mounting supplied separately – For Vertical Impulse Piping Installations <sup>*1, *3</sup>																
9	SST Mounting Bracket AKM-U Type for 2" Pipe Mounting supplied separately – For Horizontal and Vertical Impulse Piping Installations <sup>*1</sup>																

\*1 Relevant Bracket Type see Pages 28-32.

\*2 For W3B Types Option A is not relevant because it is already included.

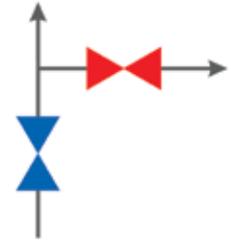
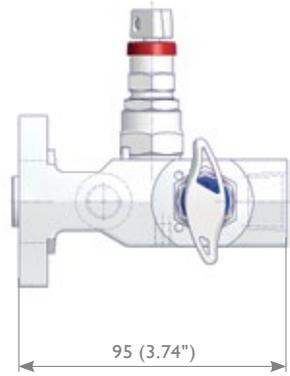
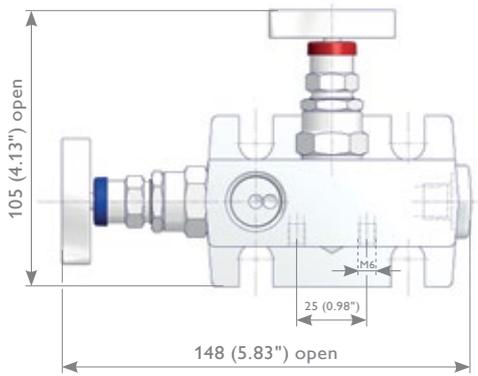
\*3 Not applicable for W5GA type with IEC 61518-B connection.

\*4 Mentioned bolt length 1 3/4" not applicable for manifold type W3AB/W3BB - the bolt length depends here on the flange thickness of the flange on the process side.

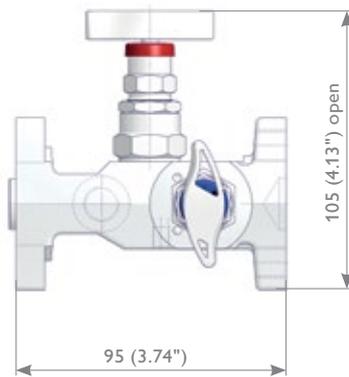
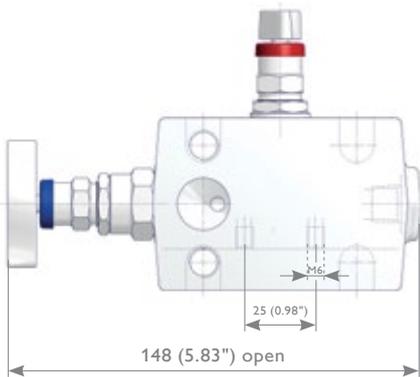
# Direct Mount Manifolds - Traditional Style

## Traditional Style Manifolds

### 2 Valve Manifolds – Female x Flanged T2A Type

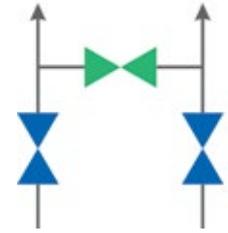
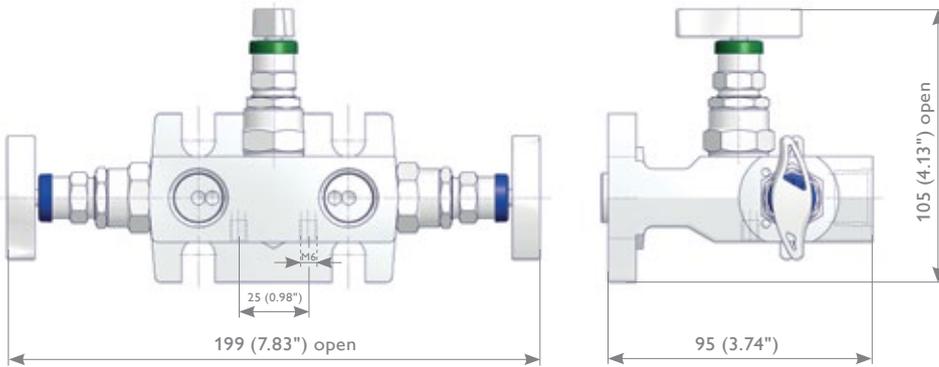


### 2 Valve Manifolds – Flanged x Flanged H2A Type

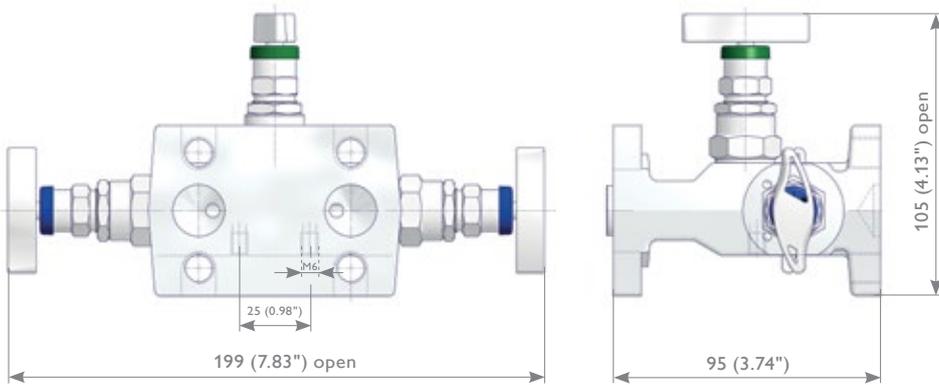


# Direct Mount Manifolds - Traditional Style

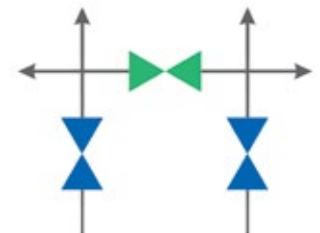
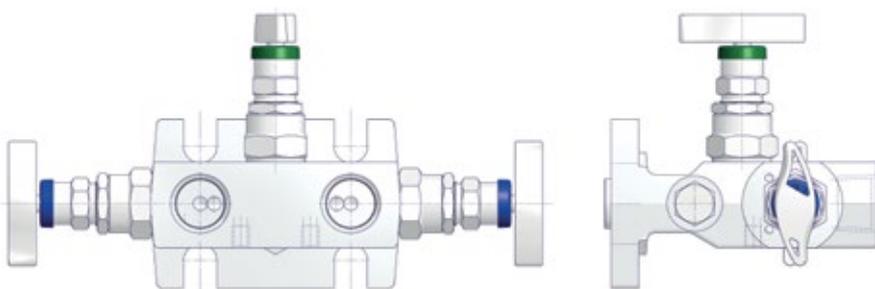
## 3 Valve Manifolds – Without Vent Connection T3A Type – Female x Flanged



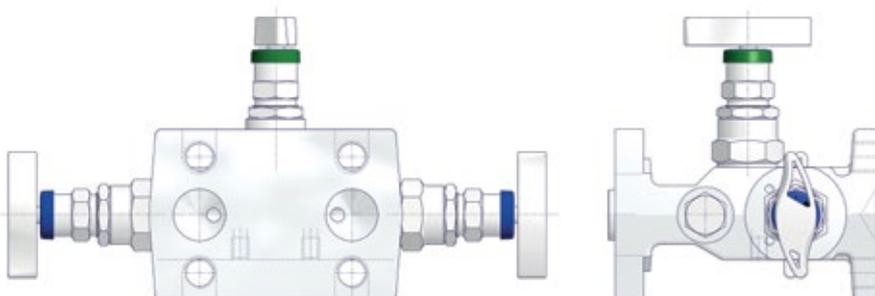
## H3A Type – Flanged x Flanged



## 3 Valve Manifolds – With Vent Connection T3B Type – Female x Flanged

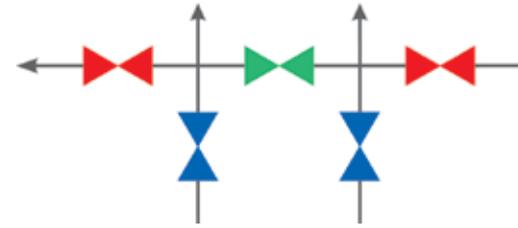
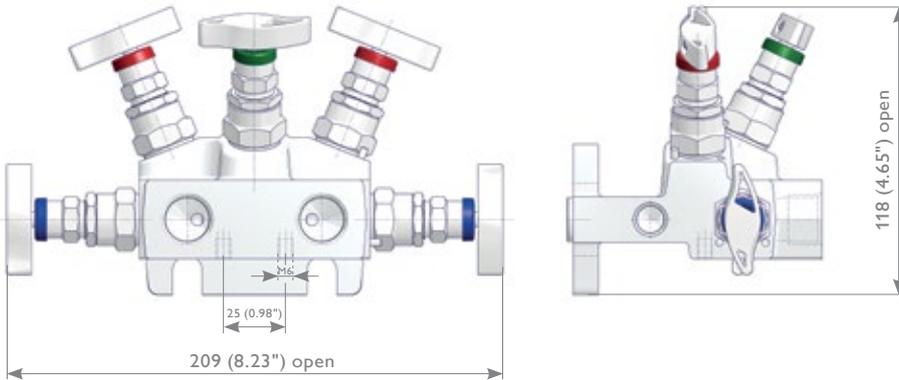


## H3B Type – Flanged x Flanged

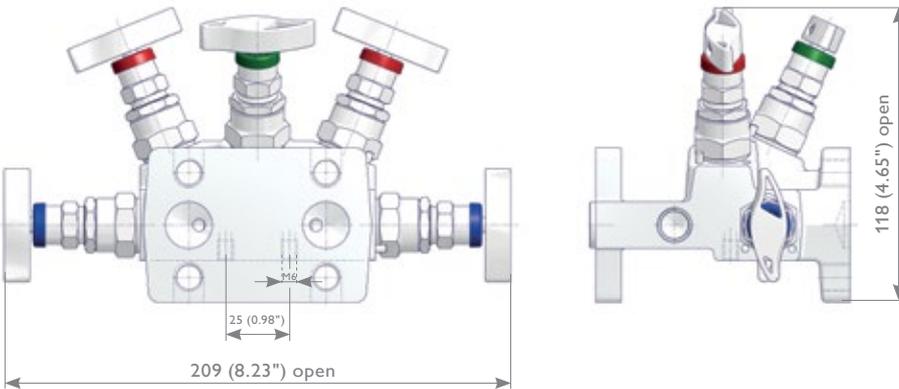


# Direct Mount Manifolds - Traditional Style

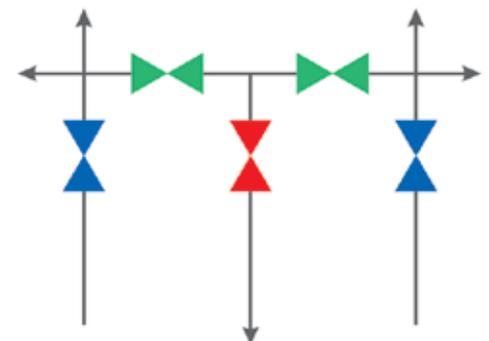
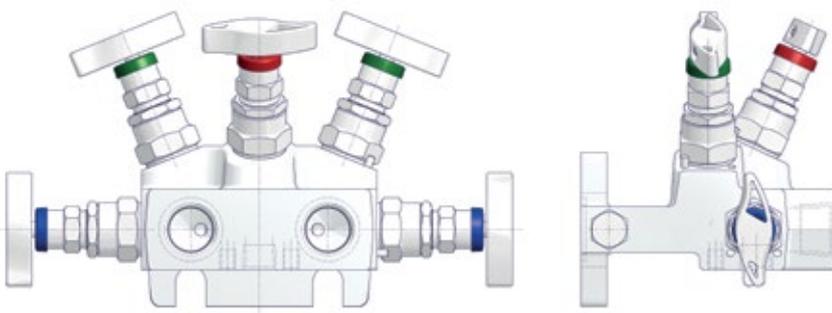
## 5 Valve Manifolds – Female x Flanged T5A Type



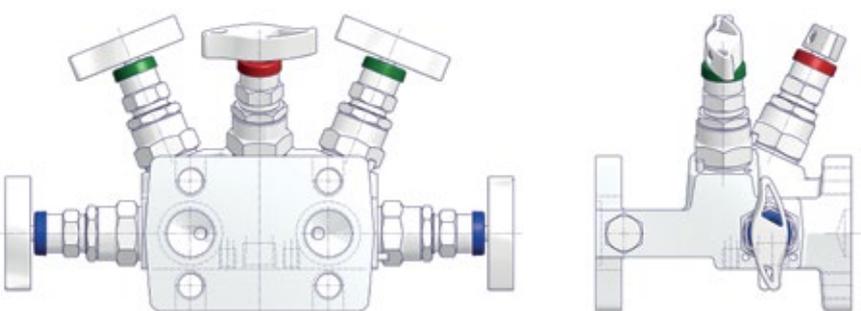
## 5 Valve Manifolds – Flanged x Flanged H5A Type



## 5 Valve Manifolds with Natural Gas Metering Pattern T5N Type



## H5N Type



# Direct Mount Manifolds - Traditional Style

## Ordering Information

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	H	3	B	B	S	A	-	N	4	T	E	-	B	R		
<b>H</b>	<b>H-Style Manifolds</b>															
<b>T</b>	<b>T-Style Manifolds</b>															
	<b>Quantity Bonnets – 2-5</b>															
	<b>Manifold Specifics</b>															
<b>A</b>	Standard – 2 Valve / 5 Valve Manifold with Vent Ports 1/4 NPT Female, 3 Valve Manifold without Vent Port															
<b>B</b>	Vent Ports 1/4 NPT Female Plugged – For 3 Valve Manifolds only*2															
<b>N</b>	Natural Gas Metering Pattern – For 5 Valve Manifolds only															
	<b>Inlet</b>															
<b>A</b>	Female															
<b>B</b>	Flanged															
<b>C</b>	1/2 NPT with Tube Fittings															
	<b>Material</b>															
<b>S</b>	1.4401 / 1.4404 / 316 / 316L	<b>F</b>	Duplex UNS S31803	<b>V</b>	Alloy 625 UNS N06625											
<b>M</b>	Alloy 400 UNS N04400	<b>D</b>	Super Duplex UNS S32750	<b>B</b>	6Mo UNS S31254											
<b>H</b>	Alloy C-276 UNS N10276	<b>2</b>	Super Duplex UNS S32760	<b>T</b>	Titanium Grade 2											
	<b>Bonnet</b>															
<b>A</b>	PTFE	<b>K</b>	O-Ring FKM (FPM by ISO)													
<b>B</b>	Graphite	<b>W</b>	Carbon filled PTFE – TA-Luft													
<b>D</b>	ISO FE Series Type 1	<b>2</b>	Bellows sealed PN 100													
<b>E</b>	ISO FE Series Type 3	<b>4</b>	Bellows sealed PN 250													
	<b>Inlet</b>															
	<b>Thread Type</b>				<b>Fitting Type</b>				<b>Flange Interface</b>							
<b>N</b>	NPT				C Single Ferrule Tube Fitting S Swagelok A A-Lok R Rotarex				T Flange Interface							
	<b>Thread Size</b>				<b>Tube Fitting Sizes</b>				<b>Flange Interface</b>							
<b>4</b>	1/2				4 12 resp. 12S 5 14 resp. 14S 9 1/2"				4 EN 61518							
	<b>Outlet</b>															
	<b>Transmitter Interface</b>															
<b>TD</b>	DIN EN 61518-A															
<b>TE</b>	DIN EN 61518-B															
	<b>Options - Specify in alphabetical order (digits first, then letters)</b>															
<b>B</b>	Cleaned and Lubricated for Oxygen Service – For PTFE Packing only															
<b>F</b>	PCTFE Soft Tip															
<b>G</b>	POM Soft Tip															
<b>S</b>	Stellite Valve Tip															
<b>A</b>	Vent Ports Plugged*2															
<b>P</b>	Power Piping ASME B31.1															
<b>K</b>	Arctic Operations (-55°C (-67°F)) – For PTFE Packing only															
<b>M</b>	Wetted Parts with 3.1 certificate															
	<b>Operation Options</b>															
<b>J</b>	Stainless Steel Handwheel with Locking Plate Design															
<b>T</b>	Anti-Tamper Bonnet (Key to be ordered separately)															
<b>R</b>	Anti-Tamper Bonnet (1 Key supplied per Valve/Manifold)															
<b>Q</b>	AT-Key Lock Bonnet Design															
<b>U</b>	Padlock for Anti-Tamper Bonnet / AT-Key Lock Bonnet Design															
<b>W</b>	Stainless Steel Handwheel															
	<b>Standard Accessory Kits for Manifold to Transmitter mounting according to DIN EN 61518 / IEC 61518</b>															
<b>1</b>	Hex Cap Screw 7/16-20 UNF, Bolt Length 1" and Washer in C.S., PTFE Seal Rings															
<b>2</b>	Hex Cap Screw 7/16-20 UNF, Bolt Length 1" and Washer in S.S., PTFE Seal Rings*3															
<b>3</b>	Hex Cap Screw 7/16-20 UNF, Bolt Length 1" and Washer in C.S., Graphite Seal Rings															
<b>4</b>	Hex Cap Screw 7/16-20 UNF, Bolt Length 1" and Washer in S.S., Graphite Seal Rings*3															
	<b>Mounting Bracket Kits</b>															
<b>9</b>	SST Mounting Bracket AKM-U Type for 2" Pipe Mounting supplied separately – For Horizontal and Vertical Impulse Piping Installations*1															

\*1 Relevant Bracket Type see Pages 34-36.

\*2 For H3B/T3B Types Option A is not relevant because it's already included.

\*3 Bolt Material S.S. = 304 Stainless Steel IASTM A193 B8 Class 2

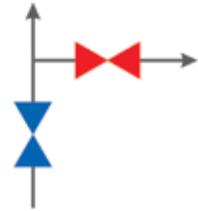
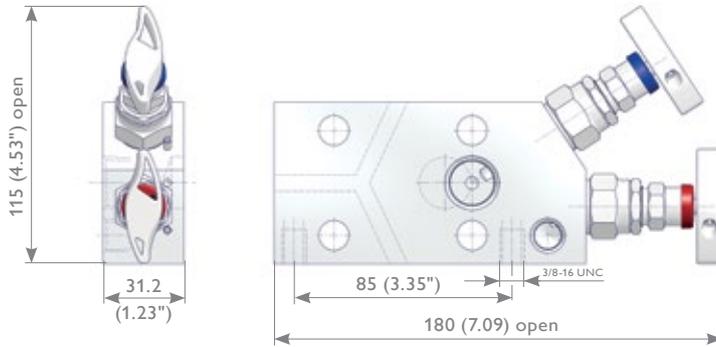
Wetted Parts according to a.m. material list are supplied according to NACE MR0175/MR0103 and ISO 15156 (latest issue) - except Titanium Grade 2.  
Note: Not every configuration which can be created in the ordering information is feasible / available.

# Direct Mount Manifolds - Integral Style

## Integral Manifolds for Rosemount 2051/3051 Coplanar™ Pressure Transmitters

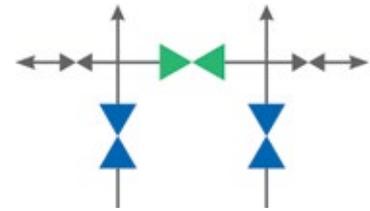
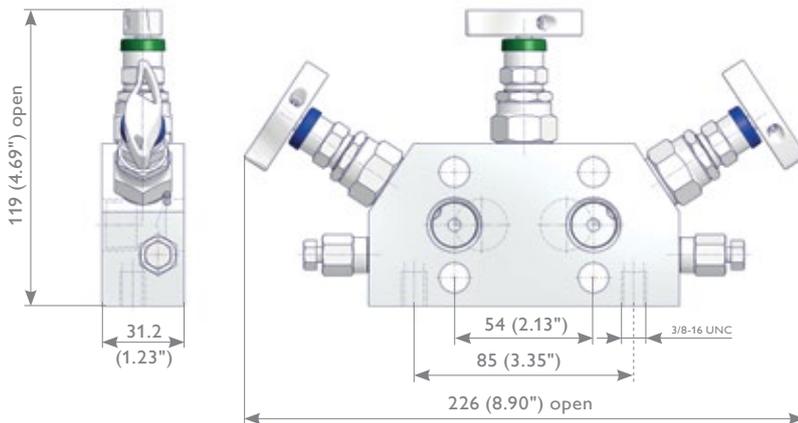
### Coplanar™ Style Manifolds

#### 2 Valve Integral Manifolds W2RA Type



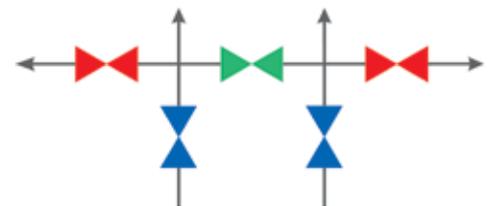
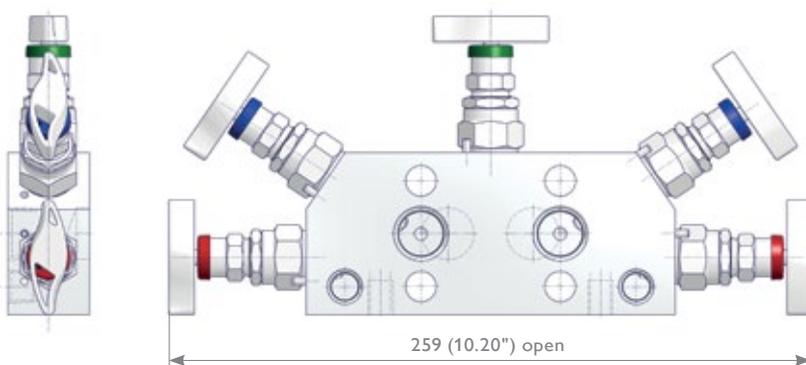
#### 3 Valve Integral Manifolds W3RA Type

Supplied as standard with vent valves – fitted



#### 5 Valve Integral Manifolds W5RA Type

W5RA Type



#### Mounting Bracket AKM-C Type

See also Page 48.



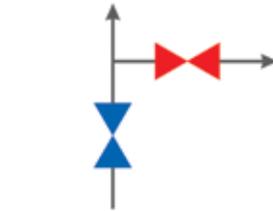
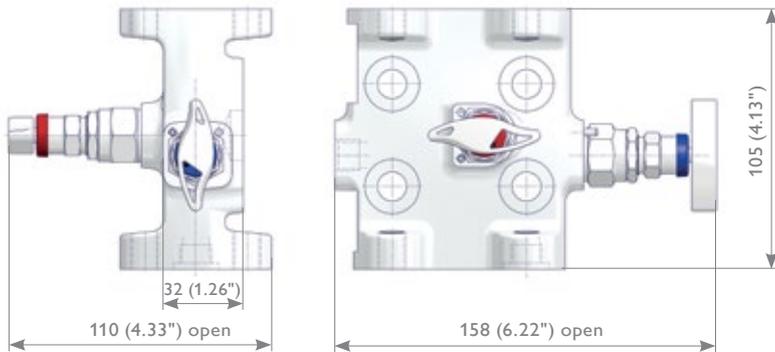
# Direct Mount Manifolds - Integral Style

## Traditional Style Integral Manifolds

Inlet with Flange Interface DIN EN 61518 / IEC 61518 and 1/4 NPT female only.

### 2 Valve Integral Manifolds

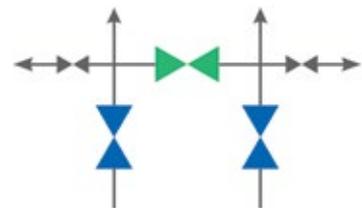
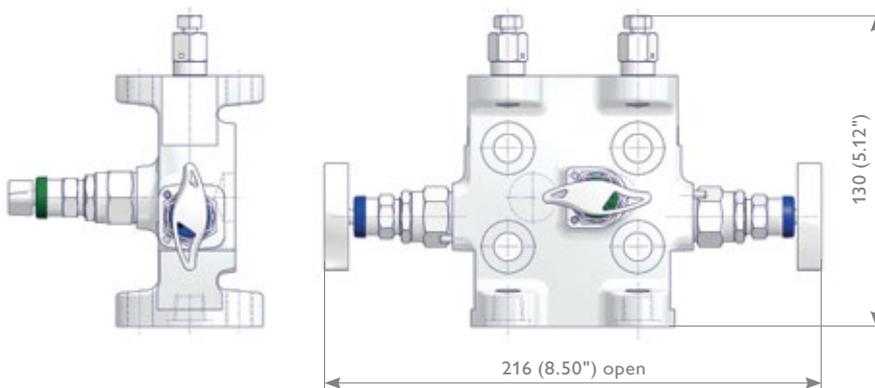
H2TB Type



### 3 Valve Integral Manifolds

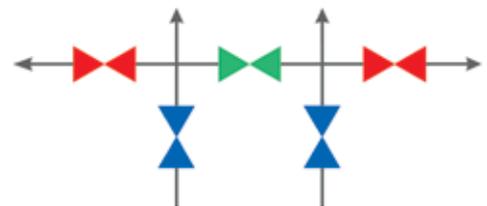
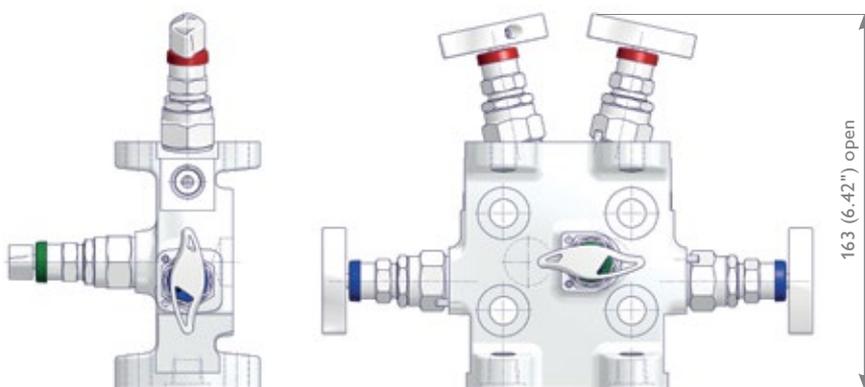
H3TB Type

Supplied as standard with vent valves – fitted



### 5 Valve Integral Manifolds

H5TB Type



# Direct Mount Manifolds - Integral Style

## Ordering Information

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	W	3	R	A	S	A	-	N	4	T	F	-	M	S	T	
W	Coplanar™ Style Manifolds															
H	Traditional Style Integral Manifolds															
	Quantity Bonnets - 2-5															
	Manifold Specifics															
R	Integral Manifold – Coplanar™ Style															
T	Integral Manifold – Traditional Style															
	Inlet															
A	Female															
B	Flanged – For Traditional Style Integral Manifolds only															
C	1/2 NPT with Tube Fitting															
	Material															
S	1.4401 / 1.4404 / 316 / 316L	F	Duplex UNS S31803	V	Alloy 625 UNS N06625											
M	Alloy 400 UNS N04400	D	Super Duplex UNS S32750	B	6Mo UNS S31254											
H	Alloy C-276 UNS N10276	2	Super Duplex UNS S32760	T	Titanium Grade 2											
	Bonnet															
A	PTFE	K	O-Ring FKM (FPM by ISO)													
B	Graphite	W	Carbon filled PTFE - TA-Luft													
D	ISO FE Series Type 1	2	Bellows sealed PN 100													
E	ISO FE Series Type 3	4	Bellows sealed PN 250													
	Inlet															
	Thread Type			Fitting Type			Flange Interface									
N	NPT			C Single Ferrule Tube Fitting S Swagelok A A-Lok			T Flange Interface									
	Thread Size			Tube Fitting Sizes			Flange Interface									
4	1/2			4 12 resp. 12S 9 1/2"			3 EN 61518 with 1/4 NPT Female – For Traditional Style Integral Manifolds									
	Outlet															
	Transmitter Interface															
TF	Rosemount 2051/3051 Coplanar™ Pressure Transmitter															
	Options - Specify in alphabetical order (digits first, then letters)															
B	Cleaned and Lubricated for Oxygen Service – For PTFE Packing only															
F	PCTFE Soft Tip															
G	POM Soft Tip															
S	Stellite Valve Tip															
A	Vent Ports Plugged															
P	Power Piping ASME B31.1															
K	Arctic Operations (-55°C (-67°F)) – For PTFE Packing only															
M	Wetted Parts with 3.1 certificate															
	Operation Options															
J	Stainless Steel Handwheel with Locking Plate Design															
T	Anti-Tamper Bonnet (Key to be ordered separately)															
R	Anti-Tamper Bonnet (1 Key supplied per Valve/Manifold)															
Q	AT-Key Lock Bonnet Design															
U	Padlock for Anti-Tamper Bonnet / AT-Key Lock Bonnet Design															
W	Stainless Steel Handwheel															
	Mounting Bracket Kits															
7	CST Mounting Bracket AKM-C Type for 2" Pipe Mounting supplied separately – For Vertical Impulse Piping Installations*															
8	SST Mounting Bracket AKM-C Type for 2" Pipe Mounting supplied separately – For Vertical Impulse Piping Installations*															
9	SST Mounting Bracket AKM-T Type for 2" Pipe Mounting supplied separately – For Horizontal Impulse Piping Installations*															

\* Relevant Bracket Type see Pages 38-39.

Wetted Parts according to a.m. material list are supplied according to NACE MR0175/MR0103 and ISO 15156 (latest issue) - except Titanium Grade 2.

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

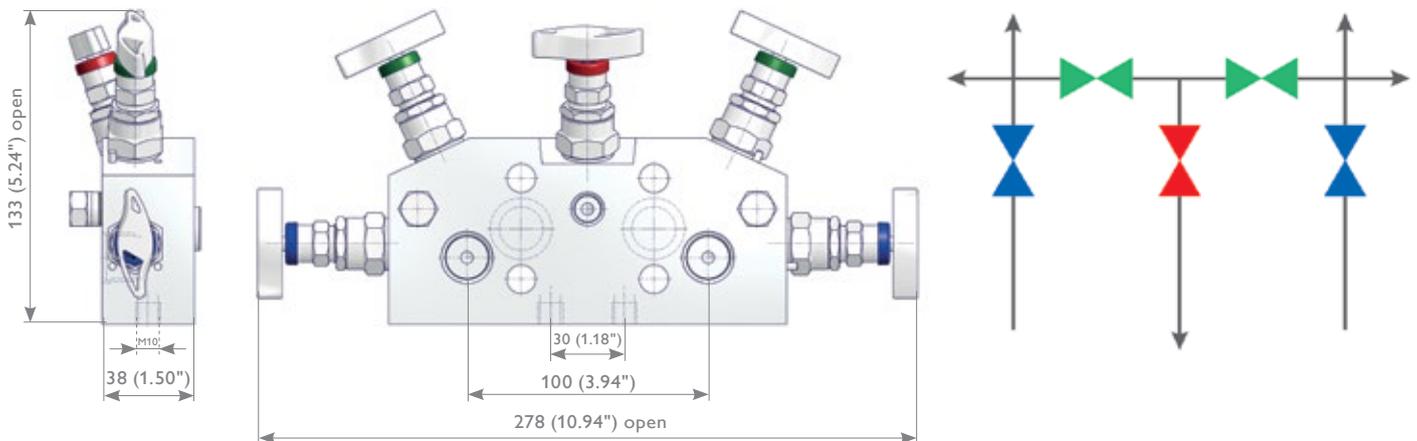
# 5 Valve Manifolds with Natural Gas Metering Pattern

## 5 Valve Manifolds with Natural Gas Metering Pattern

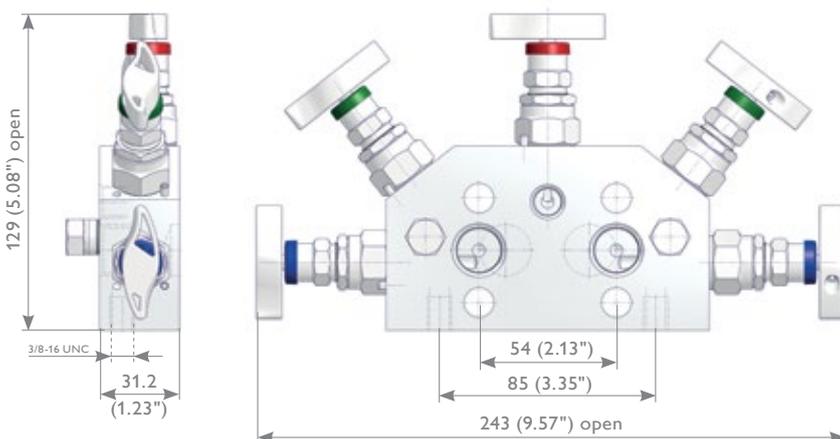
AS-Schneider is manufacturing various 5 Valve Manifold Designs with Natural Gas Metering Pattern for direct mounting to Differential Pressure Transmitters – either Transmitters with standard flange connection in accordance with IEC 61518 or alternatively to Rosemount 2051/3051 Coplanar™ Pressure Transmitters. The standard vent connection is 1/4 NPT female. Pipe plugs are not installed as standard. For plugged vent ports (factory installed) and other options see Page 42 – Ordering Information 5 Valve Manifolds with Natural Gas Metering Pattern. The standard test connection is 1/4 NPT female plugged. Accessories like Swivel Gauge Adaptors, Vent Valves etc. see Pages 48-53.

The dimensions shown apply only to the illustrated valves (1/2 NPT Threaded) – if you need the dimensions for your individual type or should you still not find your options at all please contact the factory.

### 5 Valve Manifolds - Instrument Connection acc. to. IEC 61518 5AAF Type



### 5 Valve Integral Manifolds - Instrument Connection for Rosemount 2051/3051 Coplanar™ Pressure Transmitter 5DAF Type



**Manifold Type D**  
(For Rosemount Coplanar™ Transmitter)



**Manifold Type A**  
(DIN EN 61518 / IEC 61518)



# 5 Valve Manifolds with Natural Gas Metering Pattern

## Ordering Information

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	5	A	A	T	S	K	-	C	4	A	D	-	A	F	M	
<b>5</b>	<b>5 Valve Manifolds with Natural Gas Metering Pattern</b>															
<b>Manifold Type</b>																
A	Outlet DIN EN 61518-A – Test Connection 1/4 NPT - Vent Port 1/4 NPT – Inlet 1/2 NPT															
D	Outlet for Rosemount 2051/3051 Coplanar™ Pressure Transmitter – Test Connection 1/4 NPT – Vent Port 1/4 NPT – Inlet 1/2 NPT															
<b>Vent Connection</b>																
A	1/4 NPT Female	E	1/4 NPT with Single Ferrule Tube Fitting 12S													
C	1/4 NPT with Twin Ferrule Tube Fitting 12 mm															
<b>Inlet</b>																
F	Female															
T	Tube Fitting															
<b>Material</b>																
S	1.4401 / 1.4404 / 316 / 316L	F	Duplex UNS S31803	V	Alloy 625 UNS N06625											
M	Alloy 400 UNS N04400	D	Super Duplex UNS S32750	B	6Mo UNS S31254											
H	Alloy C-276 UNS N10276	2	Super Duplex UNS S32760	T	Titanium Grade 2											
<b>Bonnet</b>																
A	PTFE	K	O-Ring FKM (FPM by ISO)													
B	Graphite	W	Carbon filled PTFE – TA-Luft													
D	ISO FE Series Type 1	2	Bellows sealed PN 100													
E	ISO FE Series Type 3	4	Bellows sealed PN 250													
<b>Inlet</b>																
<b>Thread Size</b>																
N4	NPT	<b>Fitting Type</b>														
		C	Single Ferrule Tube Fitting											4	<b>Tube Fitting Sizes</b>	
		S	Swagelok												12 resp. 12S	
		A	A-Lok													
		R	Rotarex													
<b>Test Connection</b>																
A	1/4 NPT Female plugged															
<b>Outlet</b>																
<b>Transmitter Interface</b>																
D	DIN EN 61518-A															
F	Rosemount 2051/3051 Coplanar™ Pressure Transmitter															
<b>Options - Specify in alphabetical order (digits first, then letters)</b>																
B	Cleaned and Lubricated for Oxygen Service –For PTFE Packing only															
F	PCTFE Soft Tip															
G	POM Soft Tip															
S	Stellite Valve Tip															
A	Vent Ports Plugged															
P	Power Piping ASME B31.1															
K	Arctic Operations (-55°C (-67°F)) – For PTFE Packing only															
M	Wetted Parts with 3.1 certificate															
<b>Operation Options</b>																
J	Stainless Steel Handwheel with Locking Plate Design															
T	Anti-Tamper Bonnet (Key to be ordered separately)															
R	Anti-Tamper Bonnet (1 Key supplied per Valve/Manifold)															
Q	AT-Key Lock Bonnet Design															
U	Padlock for Anti-Tamper Bonnet / AT-Key Lock Bonnet Design															
W	Stainless Steel Handwheel															
<b>Accessory Kits for Manifold to Transmitter mounting according to DIN EN 61518 - For 5A Type only (not for 5D Type)</b>																
1	Hex Cap Screw 7/16-20 UNF, Bolt Length 2", C.S., PTFE Seal Rings															
2	Hex Cap Screw 7/16-20 UNF, Bolt Length 2", S.S., PTFE Seal Rings*															
3	Hex Cap Screw 7/16-20 UNF, Bolt Length 2", C.S., Graphite Seal Rings															
4	Hex Cap Screw 7/16-20 UNF, Bolt Length 2", S.S., Graphite Seal Rings*															
<b>Mounting Bracket Kits</b>																
7	CST Mounting Bracket AKM-C or -D Type for 2" Pipe Mounting supplied separately – For Vertical Impulse Piping Installations															
8	SST Mounting Bracket AKM-C or -D Type for 2" Pipe Mounting supplied separately – For Vertical Impulse Piping Installations															

\* Bolt Material S.S. = 304 Stainless Steel | ASTM A193 B8 Class 2

Wetted Parts according to a.m. material list are supplied according to NACE MR0175/MR0103 and ISO 15156 (latest issue) - except Titanium Grade 2.

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

## Enclosure Manifolds (2, 3 and 5 Valve Manifolds)

AS-Schneider Enclosure Manifolds are manufactured for applications that require the transmitter to be mounted in an enclosure for environmental protection. The standard vent connection is 1/4 NPT female. Pipe plugs are not installed as standard. For plugged vent ports (factory installed) and other options see page 45– Ordering Information Enclosure Manifolds.

The dimensions shown apply only to the illustrated valves (1/2 NPT Threaded) – if you need the dimensions for your individual type or should you still not find your options at all please contact the factory.

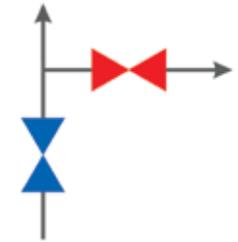
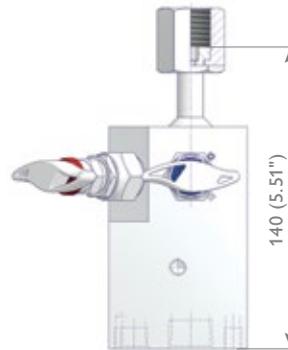
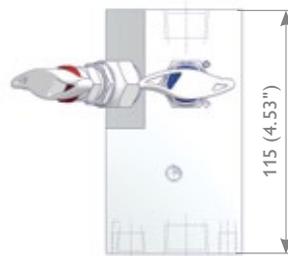
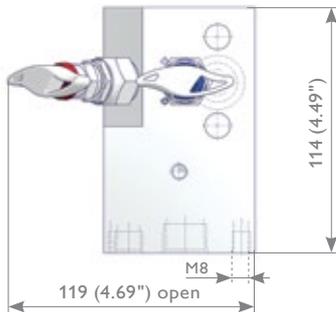
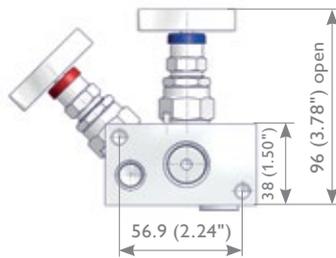
### 2 Valve Manifolds

#### Transmitter Connection

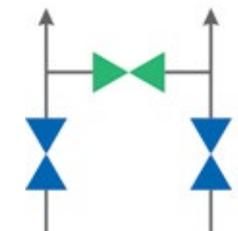
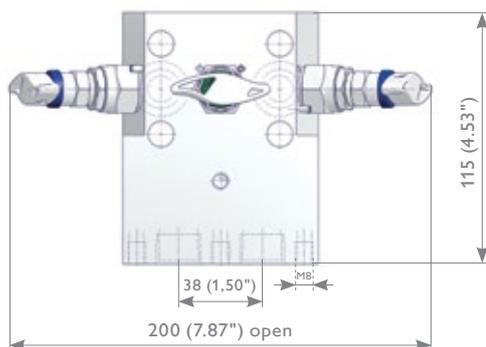
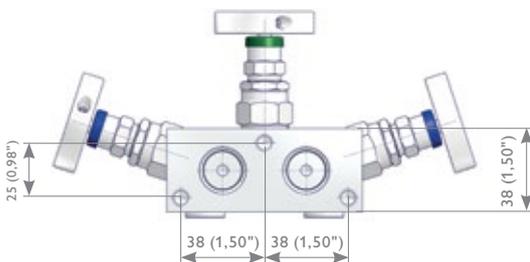
Acc. to DIN EN 61518  
E2AA Type

1/2 NPT Female  
E2AC Type

Swivel Nut  
E2AE Type



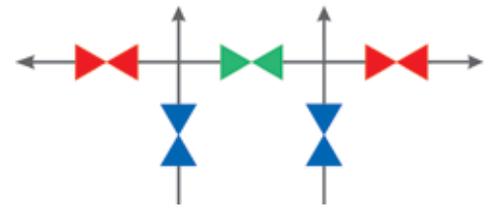
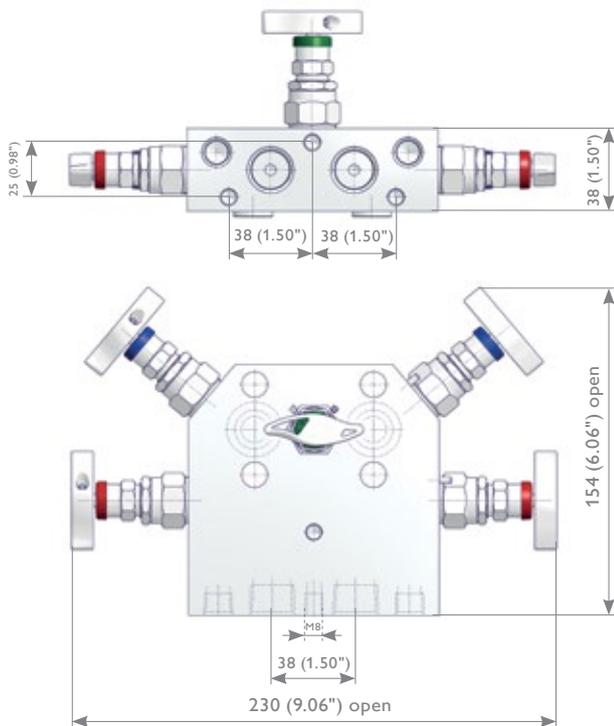
### 3 Valve Manifolds – Female x Flanged E3AA Type



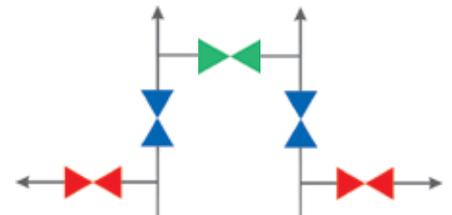
# Enclosure Manifolds

## 5 Valve Manifolds – Female x Flanged

- Standard Flow Schematic → E5AA Type
- Upstream Vent Schematic → E5UA Type



E5UA Type



## Enclosure Systems

AS-Schneider Enclosure Systems have been developed to provide a weatherproof barrier for every type of installation. Modern process measurement instrumentation needs protection not only from the effects of sun, rain, frost, aggressive atmosphere or dirt but also from accidental damage or unauthorized access.

The Enclosure Manifolds allow direct mounting to a baseplate or a back plate of the enclosures. A lot of accessories such as electrical heating systems, thermostats, junction boxes, grommets and pipestands are available. Designed and fitted out to customer's specifications AS-Schneider is supplying the complete solution - enclosure, manifolds and all accessories needed – for an easy on-site installation. For more details please contact the factory.



## Manifold Mounting Options



## Ordering Information

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
	E	5	A	A	S	A	-	N	4	T	D	-	R				
<b>E</b>	<b>Enclosure Manifolds</b>																
	<b>Quantity Bonnets – 2-5</b>																
	<b>Manifold Specifics</b>																
A	Standard - 2 Valve / 5 Valve Manifold with Vent Ports 1/4 NPT Female, 3 Valve Manifold without Vent Port																
C	Vent 1/4 NPT with Tube Fitting 12 mm																
U	Upstream Vent Type (5 Valve Manifold only)																
	<b>Inlet x Outlet Configuration</b>																
A	Female x Flanged																
B	1/2 NPT with Tube Fitting x Flanged																
C	Female x Female																
		D	1/2 NPT with Tube Fitting x Female														
		E	Female x Swivel Nut														
		F	1/2 NPT with Tube Fitting x Swivel Nut														
	<b>Material</b>																
S	1.4401 / 1.4404 / 316 / 316L	F	Duplex UNS S31803			V	Alloy 625 UNS N06625										
M	Alloy 400 UNS N04400	D	Super Duplex UNS S32750			B	6Mo UNS S31254										
H	Alloy C-276 UNS N10276	2	Super Duplex UNS S32760			T	Titanium Grade 2										
	<b>Bonnet</b>																
A	PTFE	K	O-Ring FKM (FPM by ISO)														
B	Graphite	W	Carbon filled PTFE – TA-Luft														
D	ISO FE Series Type 1	2	Bellows sealed PN 100														
E	ISO FE Series Type 3	4	Bellows sealed PN 250														
	<b>Inlet</b>																
	<b>Thread Type</b>			<b>Fitting Type</b>													
N	NPT			C	Single Ferrule Tube Fitting												
				S	Swagelok												
				A	A-Lok												
				R	Rotarex												
	<b>Thread Size</b>			<b>Tube Fitting Sizes</b>													
2	1/4			4	12 resp. 12S												
4	1/2			5	14 resp. 14S												
				9	1/2"												
	<b>Outlet</b>																
	<b>Thread Size - 2 Valve Manifolds only</b>			<b>Transmitter Interface</b>													
N4	1/2 NPT Female			TD	DIN EN 61518-A												
G4	G 1/2 Swivel Nut			TE	DIN EN 61518-B												
M4	M20x1.5 Swivel Nut			TF	Rosemount 2051/3051 Coplanar™ Pressure Transmitter												
	<b>Options - Specify in alphabetical order (digits first, then letters)</b>																
B	Cleaned and Lubricated for Oxygen Service – For PTFE Packing only																
F	PCTFE Soft Tip																
G	POM Soft Tip																
S	Stellite Valve Tip																
A	Vent Ports Plugged																
P	Power Piping ASME B31.1																
K	Arctic Operations (-55°C (-67°F)) – For PTFE Packing only																
M	Wetted Parts with 3.1 certificate																
	<b>Operation Options</b>																
J	Stainless Steel Handwheel with Locking Plate Design																
T	Anti-Tamper Bonnet (Key to be ordered separately)																
R	Anti-Tamper Bonnet (1 Key supplied per Valve/Manifold)																
Q	AT-Key Lock Bonnet Design																
U	Padlock for Anti-Tamper Bonnet / AT-Key Lock Bonnet Design																
W	Stainless Steel Handwheel																
	<b>Standard Accessory Kits for Manifold to Transmitter mounting according to DIN EN 61518 / IEC 61518</b>																
1	Hex Cap Screw 7/16-20 UNF, Bolt Length 2", C.S., PTFE Seal Rings																
2	Hex Cap Screw 7/16-20 UNF, Bolt Length 2", S.S., PTFE Seal Rings*																
3	Hex Cap Screw 7/16-20 UNF, Bolt Length 2", C.S., Graphite Seal Rings																
4	Hex Cap Screw 7/16-20 UNF, Bolt Length 2", S.S., Graphite Seal Rings*																

\* Bolt Material S.S. = 304 Stainless Steel I ASTM A193 B8 Class 2

Wetted Parts according to a.m. material list are supplied according to NACE MR0175/MR0103 and ISO 15156 (latest issue) - except Titanium Grade 2.

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

# 3 and 5 Valve Manifolds for Differential Pressure Gauges

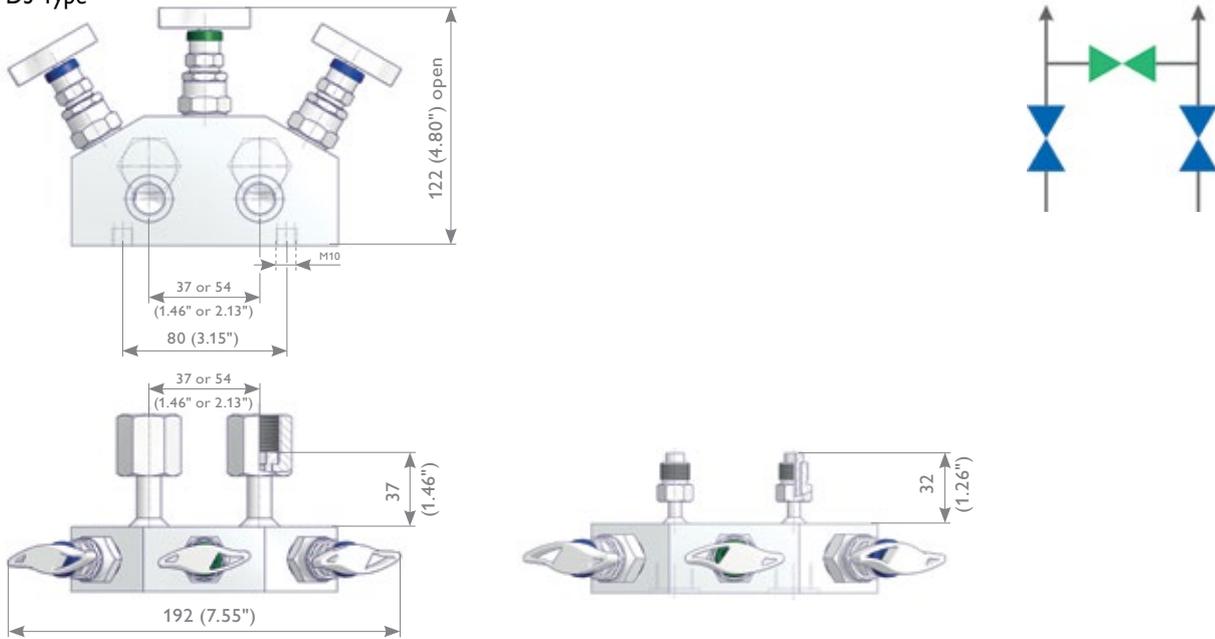
## Differential Pressure Gauge Manifolds

AS-Schneider Manifolds for Differential Pressure Gauges are available with a center to center distance of 37 mm or 54 mm as standard. The instrument connections are supplied with a Swivel Nut or a Swivel Male Connection. The standard vent connection is 1/4 NPT female. Pipe plugs are not installed as standard. For plugged vent ports (factory installed) and other options see Page 47 – Ordering Information Differential Pressure Gauge Manifolds. Accessories like Swivel Gauge Adaptors, Vent Valves etc. see Pages 48-53.

The dimensions shown apply only to the illustrated valves (G 3/8 Threaded) – if you need the dimensions for your individual type or should you still not find your options at all please contact the factory.

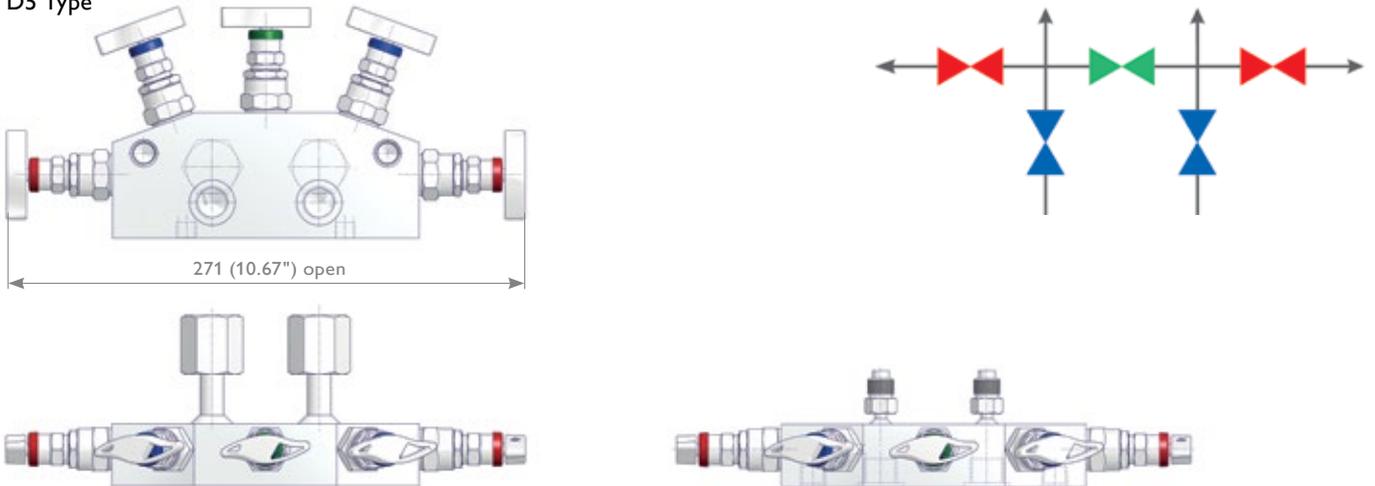
### 3 Valve Manifolds for Differential Pressure Gauges

D3 Type



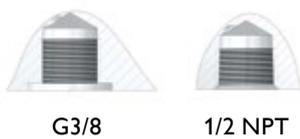
### 5 Valve Manifolds for Differential Pressure Gauges

D5 Type



### Inlet Configurations

Female Thread



G3/8

1/2 NPT

Male Connector



G1/2

1/2 NPT

Tube Fitting



Mounting Bracket  
AKM-D Type

See also Page 48.



# 3 and 5 Valve Manifolds for Differential Pressure Gauges

## Ordering Information

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
D	3	B	B	S	A	-	H	3	G	2	-	M	8			
<b>D Differential Pressure Gauge Manifolds</b>																
<b>Quantity Bonnets – 3 or 5</b>																
<b>Manifold Specifics</b>																
<b>Thread Size Inlet x Distance from Center to Center for Differential Pressure Gauge</b>																
A	G 3/8 x 37 mm				C	1/2 NPT x 37 mm										
B	G 3/8 x 54 mm				D	1/2 NPT x 54 mm										
<b>Inlet x Outlet Configuration</b>																
A	Female x Swivel Nut				D	Tube Fitting x Swivel Male										
B	Female x Swivel Male				E	Male Connector x Swivel Nut										
C	Tube Fitting x Swivel Nut				F	Male Connector x Swivel Male										
<b>Material</b>																
S	1.4401 / 1.4404 / 316 / 316L				F	Duplex UNS S31803				V	Alloy 625 UNS N06625					
M	Alloy 400 UNS N04400				D	Super Duplex UNS S32750				B	6Mo UNS S31254					
H	Alloy C-276 UNS N10276				2	Super Duplex UNS S32760				T	Titanium Grade 2					
<b>Bonnet</b>																
A	PTFE				K	O-Ring FKM (FPM by ISO)										
B	Graphite				W	Carbon filled PTFE – TA-Luft										
D	ISO FE Series Type 1				2	Bellows sealed PN 100										
E	ISO FE Series Type 3				4	Bellows sealed PN 250										
<b>Inlet</b>																
<b>Thread Type</b>																
N4	1/2 NPT				C	Single Ferrule Tube Fitting				4	12 resp. 12S					
H3	G 3/8 – DIN 3852 (Female only)				S	Swagelok				5	14 resp. 14S					
G4	G 1/2 – EN 837-1 (Male only)				A	A-Lok				9	1/2"					
					R	Rotarex										
<b>Outlet</b>																
<b>Thread Type</b>																
G2	G 1/4 Swivel Male															
G4	G 1/2 Swivel Nut or Swivel Male															
M4	M20 x 1.5 Swivel Nut															
<b>Options - Specify in alphabetical order (digits first, then letters)</b>																
B	Cleaned and Lubricated for Oxygen Service – For PTFE Packing only															
F	PCTFE Soft Tip															
G	POM Soft Tip															
S	Stellite Valve Tip															
A	Vent Ports Plugged															
H	10,000 psi (689 bar)															
P	Power Piping ASME B31.1															
K	Arctic Operations (-55°C (-67°F)) – For PTFE Packing only															
M	Wetted Parts with 3.1 certificate															
<b>Operation Options</b>																
J	Stainless Steel Handwheel with Locking Plate Design															
T	Anti-Tamper Bonnet (Key to be ordered separately)															
R	Anti-Tamper Bonnet (1 Key supplied per Valve/Manifold)															
Q	AT-Key Lock Bonnet Design															
U	Padlock for Anti-Tamper Bonnet / AT-Key Lock Bonnet Design															
W	Stainless Steel Handwheel															
<b>Accessory Kits</b>																
7	CST Mounting Bracket AKM-D Type for 2" Pipe Mounting supplied separately – For Vertical Impulse Piping Installations															
8	SST Mounting Bracket AKM-D Type for 2" Pipe Mounting supplied separately – For Vertical Impulse Piping Installations															

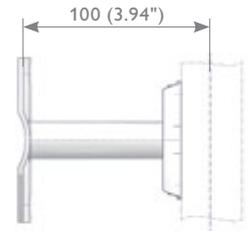
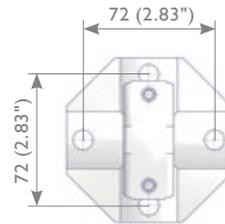
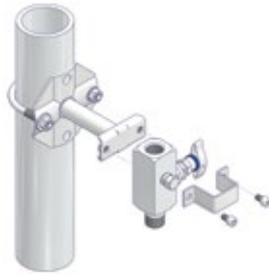
Wetted Parts according to a.m. material list are supplied according to NACE MR0175/MR0103 and ISO 15156 (latest issue) - except Titanium Grade 2.  
 Note: Not every configuration which can be created in the ordering information is feasible / available.

# Accessories – Mounting Bracket Kits

## Mounting Bracket Kits for Vertical Impulse Piping Installations

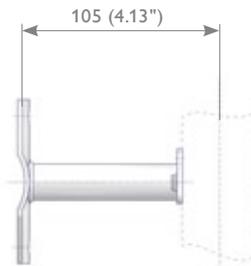
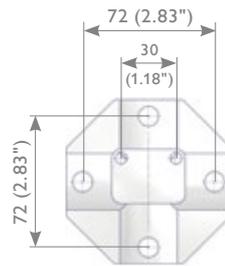
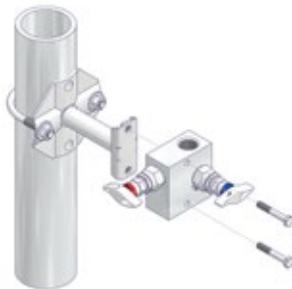
### AKM-S Type

For Valves and Manifolds with 1 1/4" Square Valve Body (Type H, G, M and S)



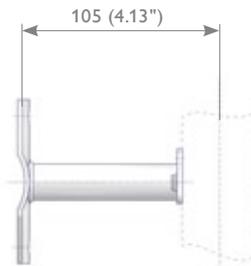
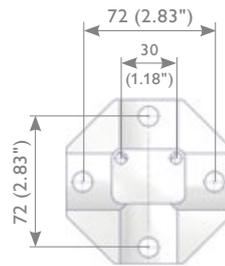
### AKM-R Type

For Manifolds with 1 1/4" Flat Body (Type P and R)



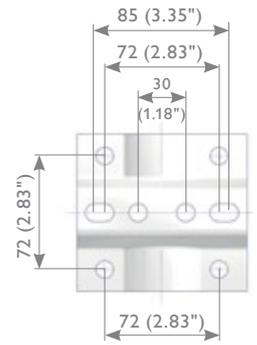
### AKM-G Type

For Double Block & Bleed Manifolds (Type C)



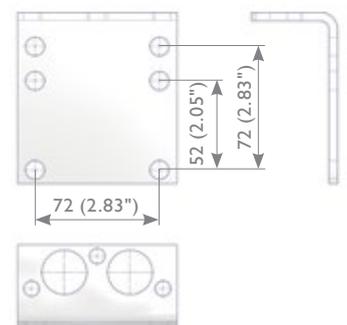
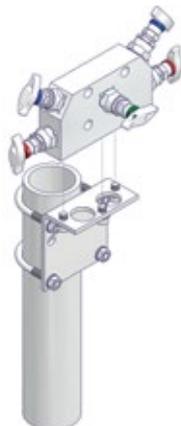
### AKM-D Type and AKM-C Type

For Manifolds Type D, W and 5



### AKM-B Type

For Wafer Style Manifolds with Bottom Inlet Design

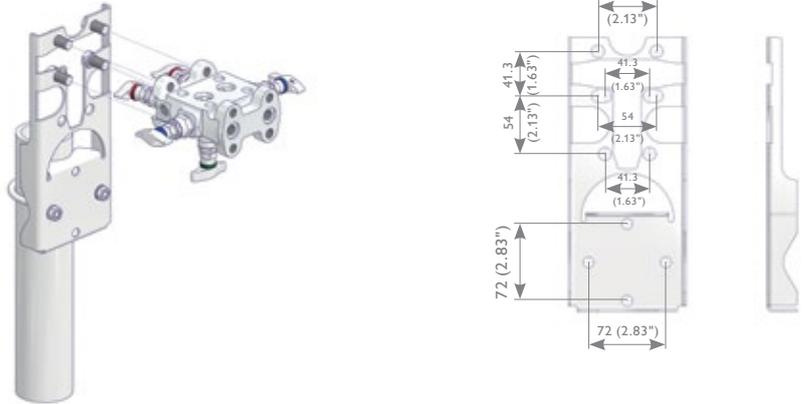


# Accessories – Mounting Bracket Kits

## Mounting Bracket Kits for Horizontal Impulse Piping Installations

### AKM-T Type

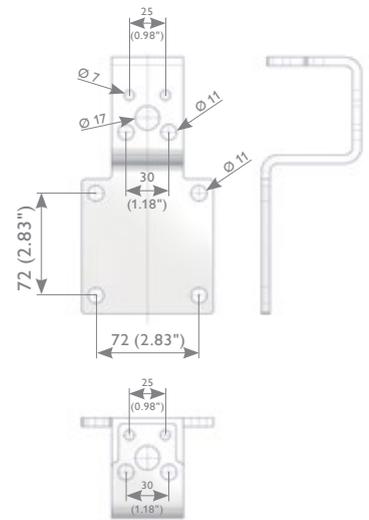
For Integral Manifolds – Traditional Style



## Mounting Bracket Kits for Horizontal and Vertical Impulse Piping Installations

### AKM-U Type

For Manifolds Type H, W and T



#### Mounting Bracket Kit

Mounting Bracket Kits on Page 48 and 49 are containing:

- Mounting Bracket
- 'U' Bolts\*
- Washers – 8.4\*
- Hexagon Nuts M8\*
- Screws and Washers for Mounting the Manifold to the Bracket – if applicable

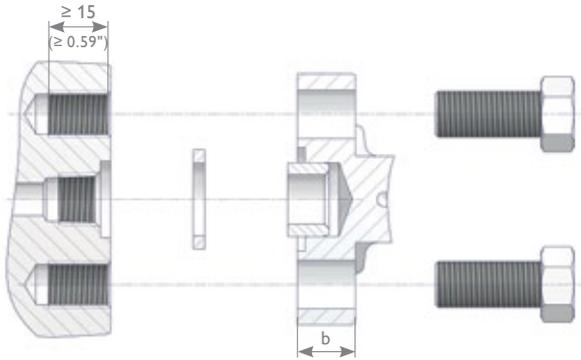
\* Amount depending on bracket type. See illustrations.

## Ordering Information

	1	2	3	4	5	6	7	8	9
	A	K	M	-	S	P	S	-	
<b>AKM Mounting Bracket Kits</b>									
<b>Mounting Bracket incl. screws for mounting the bracket to the manifold (if applicable)</b>									
S	Valves and Manifolds with 1 1/4" Square Valve Body (Type H, G, M and S)								
R	Manifolds with 1 1/4" Flat Body (Type P and R)								
G	Manifolds Type C								
D	Manifolds Type D, W and 5								
B	Wafer Style Manifolds with Bottom Inlet Design								
U	Manifolds Type H (not for Integral Manifolds for Rosemount 2051/3051 Coplanar™ Pressure Transmitters) Manifolds Type W (except Bottom Inlet Design) Manifolds Type T								
C	Integral Manifolds - Coplanar™ Style								
T	Integral Manifolds - Traditional Style								
<b>Mounting Method</b>									
P	2" Pipe Mounting – incl. 'U' Bolt, Nuts and Washers								
<b>Material</b>									
C	Carbon Steel zinc plated (only available Mounting Bracket Kit AKM-D and AKM-C)								
S	Stainless Steel 300 Series								
H	Mandatory for Manifolds Type H and U-Type Bracket (incl. Spacer)								

# Accessories – Manifold to Transmitter Mounting acc. to DIN EN 61518

## Accessory Kits for Manifold to Transmitter Mounting according to DIN EN 61518 / IEC 61518



b = Depending on manifold thickness

## Ordering Information

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	A	K	S	-	H	U	4	C	-	P	A	F	4	4		
<b>AKS Transmitter Mounting Kit</b>																
<b>Type of Screw</b>																
H	Hex Cap Screw															
S	Socket Head Cap Screw															
<b>Thread Size</b>																
U	7/16-20 UNF – For Traditional Style Manifolds (see page 34-37) please use Option Code W – Incl. washer															
M	M10 – Max. Operating Pressure 160 bar (2,320 psi) – Screws supplied with Washer															
W	7/16-20 UNF – Screws supplied with Washers															
<b>Number of Screws and Seal Rings</b>																
2	2 Screws and 1 Seal Ring   For 2 Valve Manifolds and Oval Flanges															
4	4 Screws and 2 Seal rings   For Differential Pressure Manifolds															
5	4 Screws and 1 Seal Ring   For 2 Valve Manifolds Type H2A - For Gauge/Absolute Pressure Transmitters															
8	4 Screws and 4 Seal Rings   For Wafer Style Manifolds together with Oval Flanges - Screw Length 2 3/4"															
<b>Material*</b>																
C	Carbon Steel   UNF Thread: Hex Cap Screw ASTM A449 - Type 1   Socket Head Cap Screw ASTM A574   Metric Thread: ISO 898-1 Class 8.8															
S	304 Stainless Steel   UNF Thread: ASTM A193 B8 Class 2   Metric Thread: ISO 3506 A2-70															
M	316 Stainless Steel   UNF Thread: ASTM A193 B8M Class 2   Metric Thread: ISO 3506 A4-70															
F	316 Stainless Steel   UNF Thread: ASTM F593 GP2 CW															
<b>Seal Ring</b>																
<b>DIN EN 61518 Type A</b>																
PA	PTFE															
GA	Graphite															
FA	O-Ring FPM (FKM by ASTM)															
<b>DIN EN 61518 Type B</b>																
PB	PTFE															
GB	Graphite															
<b>Screw Length</b>																
<b>UNF Thread</b>																
F25	1"															
F38	1 1/2"															
F44	1 3/4"															
F51	2"															
F70	2 3/4" (For Wafer Style Manifold c/w Oval Flange)															
F76	3" (For Rosemount 2051/3051 Coplanar™ Pressure Transmitter)															
<b>Metric Thread</b>																
M25	25 mm															
M40	40 mm															
M45	45 mm															
M50	50 mm															
<b>Option</b>																
B	Cleaned for Oxygen Service (only for PTFE Seal Ring → Carbon filled PTFE)															



\* IEC 61518 calls for the mentioned mechanical properties (for example B8 Class 2) because the flange connection is designed for high pressure service (up to 6,000 psi) and high temperature service. The usage of screws without the defined mechanical properties is critical and may lead to a sudden component failure which could cause a fatal accident!

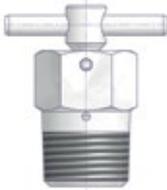
# Accessories – Pipe Plugs, Vent Valves, Adaptors

## Vent Valves, Pipe Plugs and Pipe Fittings

**Vent Valve**  
VS Type



**Vent Valve**  
VT Type



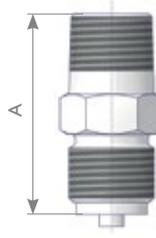
**Pipe Plug**  
PP Type



**Female to Male**  
**Adaptor**  
FM Type



**Hex Nipple**  
HN Type



Thread Size	A (Available Lengths)				
	38.1 mm (1.50")	44.5 mm (1.75")	50.4 mm (2.00")	76.2 mm (3.00")	101.6 mm (4.00")
N2, G2	Standard		... L2.0		
N4, G4, M4			Standard	... L3.0	... L4.0
Combination of #2 and #4		Standard	... L2.0		

## Ordering Information - Pipe Plugs and Vent Valves

				1	2	3	4	5	6	7	8	9	10
				V	S	M	S	-	N	4	-	M	
PP	<b>Pipe Plug</b>												
VS	<b>Vent Valve with Bleed Screw</b>												
VT	<b>Vent Valve with T Handle</b>												
<b>Connection</b>													
M	Male												
<b>Material</b>													
S	1.4401 / 1.4404 / 316 / 316L	F	Duplex UNS S31803	V	Alloy 625 UNS N06625								
M	Alloy 400 UNS N04400	D	Super Duplex UNS S32750	B	6Mo UNS S31254								
H	Alloy C-276 UNS N10276	2	Super Duplex UNS S32760	T	Titanium Grade 2								
<b>Threaded Connection</b>													
N2	1/4 NPT												
N3	3/8 NPT												
N4	1/2 NPT												
<b>Options - Specify in alphabetical order (digits first, then letters)</b>													
B	Cleaned for Oxygen Service												
M	Wetted Parts with 3.1 certificate – Not applicable for Pipe Plug Type PP												

Wetted Parts according to a.m. material list are supplied according to NACE MR0175/MR0103 and ISO 15156 (latest issue) - except Titanium Grade 2

## Ordering Information - Pipe Fittings

				1	2	3	4	5	6	7	8	9	10	11 - 16
				F	M	S	-	M	4	N	4	-	B	
FM	<b>Female to Male Adaptor</b>													
HN	<b>Hex Nipple</b> – Connections to be specified in alphabetical resp. ascending order. For example HNS-G4N4 (and not HNS-N4G4) resp. HNS-G2G4 (and not G4G2).													
<b>Material</b>														
S	1.4401 / 1.4404 / 316 / 316L	F	Duplex UNS S31803	V	Alloy 625 UNS N06625									
M	Alloy 400 UNS N04400	D	Super Duplex UNS S32750	B	6Mo UNS S31254									
H	Alloy C-276 UNS N10276	2	Super Duplex UNS S32760	T	Titanium Grade 2									
<b>Inlet - FM Type Female Thread</b>														
<b>Thread Type</b>		<b>Inch Size</b>		<b>Metric Size</b>										
N	NPT	2	1/4	4	M20x1.5									
G	BSP Parallel (G) – EN 837-1	4	1/2											
M	Metric similar to EN 837-1													
<b>Outlet</b>														
<b>Thread Type</b>		<b>Inch Size</b>		<b>Metric Size</b>										
N	NPT	2	1/4	4	M20x1.5									
G	BSP Parallel (G) – EN 837-1	4	1/2											
M	Metric similar to EN 837-1													
<b>Options - Specify in alphabetical order (digits first, then letters)</b>														
B	Cleaned for Oxygen Service													
L#;0	# → Available Lengths see table above – For Hex Nipples only													

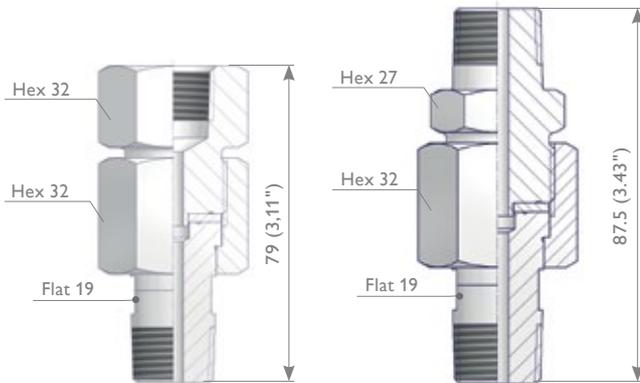
Part according to a.m. material list is supplied according to NACE MR0175/MR0103 and ISO 15156 (latest issue) - except Titanium Grade 2.

# Accessories – Swivel Gauge Adaptors

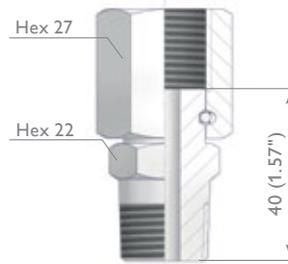
## Swivel Gauge Adaptors

The Swivel Gauge Adaptors enable the easy positioning of the pressure instrument in any direction through 360°. The dimensions shown apply only to the illustrated components – if you need the dimensions for your individual type please contact the factory.

### GS Type - For NPT Threads only



### GD Type



## Ordering Information - Swivel Gauge Adaptors

				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
				G	S	-	M	M	S	P	-	N	4	N	4	-	B		
GS	Swivel Gauge Adaptors – Screwed Design (10,000 psi / 689 bar)																		
GD	Swivel Gauge Adaptors – Wire Design (6,092 psi / 420 bar)																		
<b>Inlet</b>																			
M	Male	F	Female																
<b>Outlet</b>																			
M	Male	S	Swivel Nut (GD Type)																
F	Female																		
<b>Material</b>																			
S	1.4401 / 1.4404 / 316 / 316L	F	Duplex UNS S31803	V	Alloy 625 UNS N06625														
M	Alloy 400 UNS N04400	D	Super Duplex UNS S32750	B	6Mo UNS S31254														
H	Alloy C-276 UNS N10276	2	Super Duplex UNS S32760	T	Titanium Grade 2														
<b>Seal Ring</b>																			
P	PTFE (GS Type only*)																		
S	Same Material as threaded components (GS Type only*)																		
A	No Seal Ring required (GD Type only)																		
<b>Inlet</b>																			
<b>Thread Type</b>		<b>Thread Size</b>																	
N	NPT	2	1/4																
G	BSP Parallel (G) – EN 837-1	4	1/2																
H	BSP Parallel (G) – DIN 3852																		
<b>Outlet</b>																			
<b>Thread Type</b>		<b>Thread Size</b>																	
N	NPT	2	1/4																
G	BSP Parallel (G) – EN 837-1	4	1/2																
<b>Options - Specify in alphabetical order (digits first, then letters)</b>																			
B	Cleaned for Oxygen Service																		
M	Wetted Parts with 3.1 certificate																		

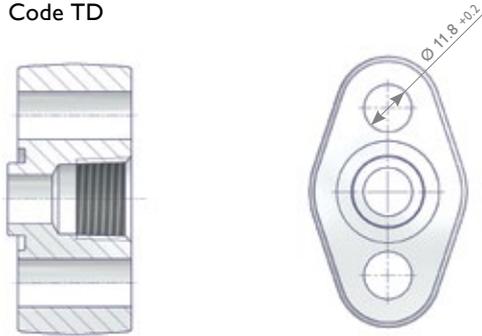
\* GS Type only: Standard at 1/4 and 1/2 NPT Threaded Options.

Wetted Parts according to a.m. material list are supplied according to NACE MR0175/MR0103 and ISO 15156 (latest issue) - except Titanium Grade 2.

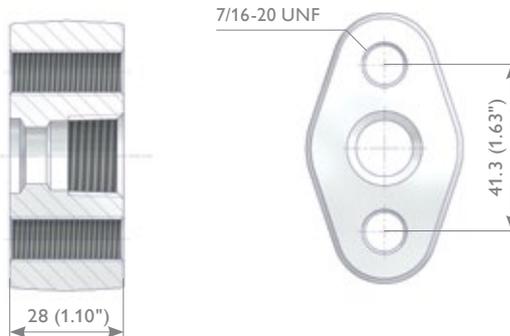
# Accessories – Oval Flanges, Anti-Tamper Key

## Oval Flanges KF Type

### Transmitter Interface EN 61518-A Code TD



### Transmitter Interface EN 61518 Code T4



## Ordering Information - Oval Flange (Kidney Flange, Futbol)

		1	2	3	4	5	6	7	8	9	10	11	12
		K	F	F	S	-	N	4	T	D	-	-	1
<b>KF Oval Flange</b>													
<b>Inlet</b>													
F	Female												
<b>Material</b>													
S	1.4401 / 1.4404 / 316 / 316L	F	Duplex UNS S31803	V	Alloy 625 UNS N06625								
M	Alloy 400 UNS N04400	D	Super Duplex UNS S32750	B	6Mo UNS S31254								
H	Alloy C-276 UNS N10276	2	Super Duplex UNS S32760	T	Titanium Grade 2								
Material Option S as forging, all other materials made from flat bar													
<b>Inlet</b>													
<b>Thread Type</b>		<b>Thread Size</b>											
N	NPT	3	3/8										
H	BSP Parallel (G) – DIN 3852	4	1/2 (NPT Thread only)										
<b>Outlet (Flange Connection)</b>													
TD	Transmitter Interface DIN EN 61518-A												
T4	Transmitter Interface DIN EN 61518												
<b>Options - Specify in alphabetical order (digits first, then letters)</b>													
B	Cleaned for Oxygen Service (if ordered with Transmitter Mounting Kit – Only with PTFE Seal Ring available)												
<b>Accessory Kits for Oval Flange to Manifold/Transmitter mounting according to DIN EN 61518 (Not for Assembly c/w Wafer Style Manifolds)</b>													
1	2 Hex Cap Screws 7/16-20 UNF, Carbon Steel ASTM A449 - Type 1, 1 PTFE Seal Ring												
2	2 Hex Cap Screws 7/16-20 UNF, Stainless Steel ASTM A193 B8 Cl.2, 1 PTFE Seal Ring												
3	2 Hex Cap Screws 7/16-20 UNF, Carbon Steel ASTM A449 - Type 1, 1 Graphite Seal Ring												
4	2 Hex Cap Screws 7/16-20 UNF, Stainless Steel ASTM A193 B8 Cl.2, 1 Graphite Seal Ring												

Wetted Parts according to a.m. material list are supplied according to NACE MR0175/MR0103 and ISO 15156 (latest issue) - except Titanium Grade 2.

## Anti-Tamper Key ATK Type

### ATK-ES Type



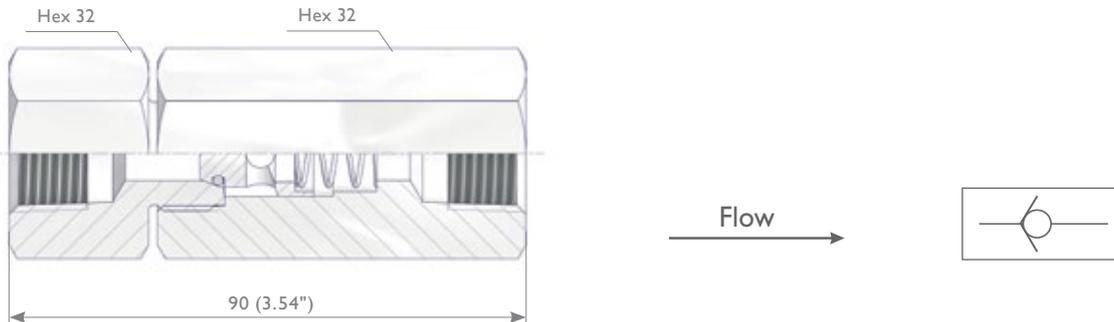
# Check Valves

## Check Valves CV Type

AS-Schneider Check Valves (Non-Return Valves) are designed for a cold working pressure rating of 10,000 psi (689 bar). The Check Valve allows flow in one direction only, closing when flow reverses. Should you still not find your option please contact the factory.

### Features

- Soft Seated – O-Rings use-d are RGD (Rapid Gas Decompression) resistant
- Cracking Pressure: < 11 psi (0.75 bar)
- Re-Seal Pressure: < 20 psi (1.38 bar)
- Temperature Rating: -50°C up to +200°C (-58°F up to +392°F), depending on seal materials used
- 100% Pressure Tested – hydrostatically at 1.5 times the maximum working pressure
- Cv-Value: 0.3



## Ordering Information - Check Valves

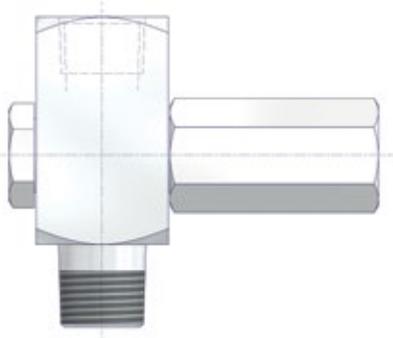
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	C	V	F	F	S	K	-	N	4	N	4	-	M	
<b>CV Check Valve</b>														
<b>Inlet</b>														
M Male			F Female											
<b>Outlet</b>														
F Female														
<b>Material</b>														
S 1.4401 / 1.4404 / 316 / 316L			F Duplex UNS S31803		V Alloy 625 UNS N06625									
M Alloy 400 UNS N04400			D Super Duplex UNS S32750		B 6Mo UNS S31254									
H Alloy C-276 UNS N10276			2 Super Duplex UNS S32760		T Titanium Grade 2									
<b>Seal Ring</b>														
K FKM – Fluorocarbon Rubber														
N HNBR – Hydrogenated Nitrile Butadiene Rubber														
P FFKM – Perfluorinated Rubber														
<b>Inlet</b>														
N2 1/4 NPT														
N4 1/2 NPT														
<b>Outlet</b>														
N2 1/4 NPT														
N4 1/2 NPT														
<b>Options - Specify in alphabetical order (digits first, then letters)</b>														
M Wetted Parts with 3.1 certificate														

Wetted Parts according to a.m. material list are supplied according to NACE MR0175/MR0103 and ISO 15156 (latest issue) - except Titanium Grade 2.  
 Note: Check Valves which are not actuated for a period of time may initially crack at a higher pressure than above stated.

## Complementary Products

In this catalogue the following products are not described in detail because they are covered in catalogue AS-0201:

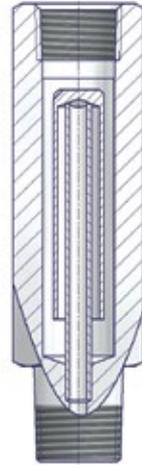
### Gauge Protectors



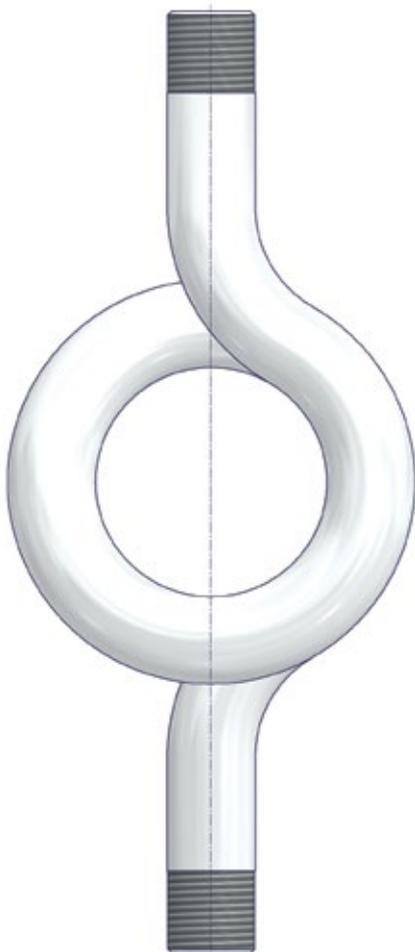
### Gauge Snubbers



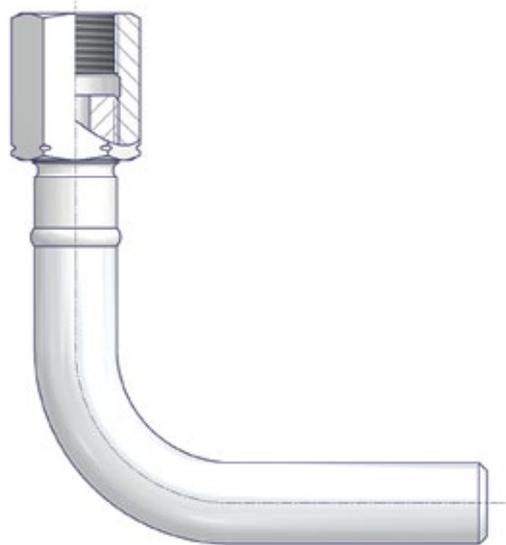
### Compact Syphons



### Coil Type Syphons / Pigtail Syphons



### Elbows





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