schneider
Tailored to Your Business

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 treaded. 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	A105				A105	Optional
	LF2				LF2	Optional
Austenitic Stainless Steel	316 quadruple certified*	1.4401	X5CrNiMo17-12-2	S31600	316	Standard
		1.4404	X2CrNiMo17-12-2	S31603	316L	Standard
	6Mo	1.4547	X 1CrNiMoCuN20-18-7	S31254		Standard
Austenitic-Ferritic Stainless Steel	Duplex	1.4462	X2CrNiMoN22-5-3	S31803	F51	Standard
	Superduplex	1.4410	X2CrNiMoN25.7.4	S32750	F53	Standard
Nickel Based Alloys	Alloy 400	2.4360	NiCu30Fe	N04400		Standard
	Alloy C-276	2.4819	NiMo 16 Cr 15 W	N10276		Standard
	Alloy 625	2.4856	NiCr22Mo9Nb	N06625		Standard
	Alloy 825	2.4858	NiCr21Mo	N08825		Optional
Titanium	Titanium Grade 2	3.7035	Ti-II	R50400		Optional

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

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 max. allowable (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.

The manifolds can be provided by default with a
- CRN Certificate
- EAC Certificate – Manifolds are marked with EAC

Valves with Graphite Packings are Fire Safe Tested and Certified according to ISO 10497 and API 607.

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.

Oxygen Service:

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

Pressure-Temperature Rating:

Max. 420 bar (6,092 psi) @ 60°C (140°F)
Max. 200°C (392°F) @ 90 bar (1,305 psi)

Not every Valve Type is available for Oxygen Service!

If you don‘t find your options in this catalogue, please contact the factory.

Standard Bonnet Design

T Handle

Ergonomic Handle Design.
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.

Color Coded Dust Cap

For operating thread protection:

Isolate	BLUE
Vent/Test	RED
Equalize	GREEN

Color Coded Options

Following options are also color coded below dust cap:

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

Lock Pin

Eliminates unauthorized removal of the bonnet assembly.

Bonnet

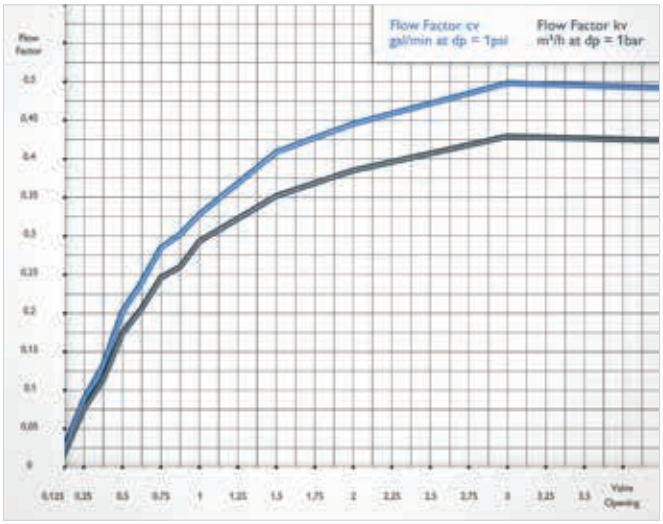
Metal to Metal Seal to Valve Body.

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

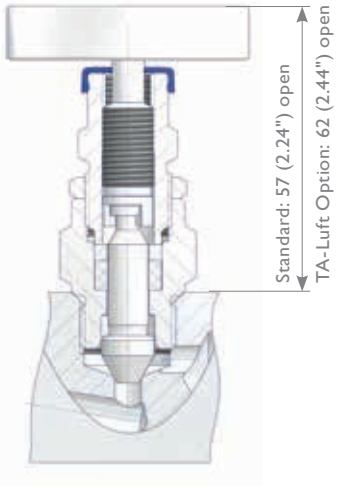
Standard Needle Valves

Screwed Bonnet – Stem Seal: Packing

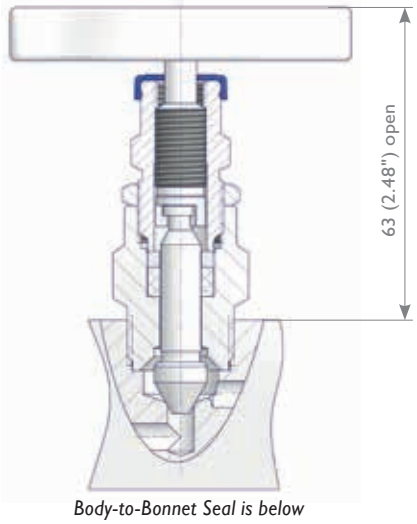
Features

- 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
- Color Coded Dust Cap for operating thread protection
- Standard Packing in PTFE and Graphite available
- Carbon filled PTFE Packing - TA-Luft option
- Max. allowable (Working) Pressure (PS):
  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

Standard Design
420 bar (6,092 psi)



High Pressure Design
689 bar (10,000 psi) and
500 bar (7,252 psi)



Body-to-Bonnet Seal is below the threads eliminating process fluid corrosion.

Color Coded Options

Graphite Packing

Oxygen Service

TA-Luft Option

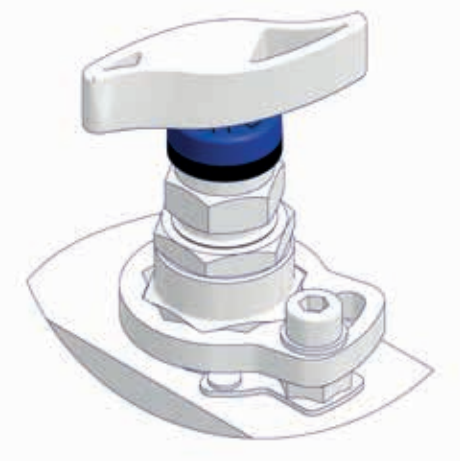
Panel Mount Option

Components	Stainless Steel	Exotic Alloys							
	Material / Material No.								
Body	316 / 316L	Alloy 400	Alloy C-276	Duplex	UNS S32750	UNS S32760	Alloy 625	6Mo	Titanium Gr. 2
Bonnet									
Needle									
Pipe Plug									
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**.

Needle Valves according ASME B31.1 (Power Piping)

Screwed Bonnet – Stem Seal: Graphite Packing
Meet the requirements of ASME B31.1 (Power Piping).
A Locking Plate eliminates an unauthorized removal of the bonnet.



Features

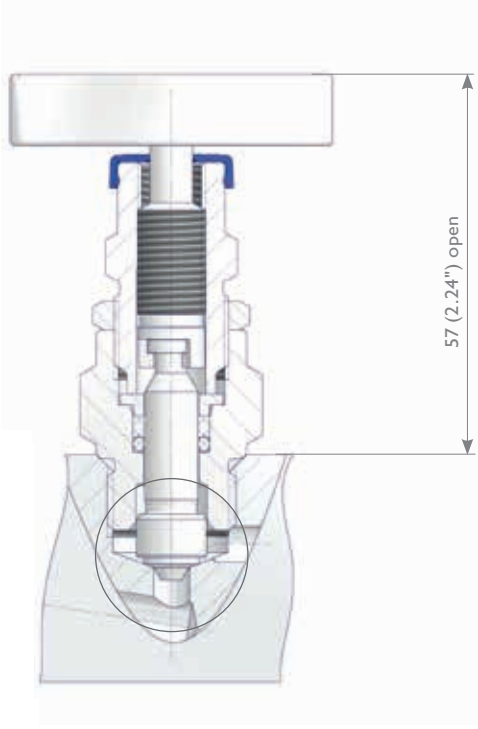
- Integral Valve Seat – Metal to Metal Seated
- Non-rotating Needle
- External Stem Thread – Packing below stem threads.
  Stem Threads are protected from process media (non wetted), helps to prevent stems from galling.
- Stem with cold rolled threads
- Blow-out proof Needle
- Back Seat – Metal to metal secondary needle seal
- Locking Plate – Eliminates unauthorized removal of the bonnet
- Color Coded Dust Cap for operating thred protection
- Max. allowable (Working) Pressure (PS): 414 bar (6,000 psi)
- Anti-Tamper Valve Head Options available
- All non-wetted parts in 316 stainless steel

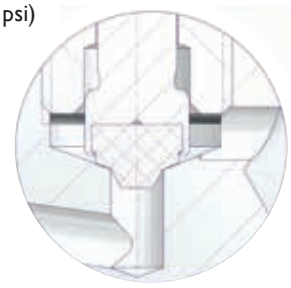
Needle Valves with O-Ring Stem Seal

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
- Color Coded Dust Cap for operating thread protection
- O-Ring FKM, optional EPDM
- Soft Tip PCTFE or POM
- Max. allowable (Working) Pressure (PS): 420 bar (6,092 psi)
- Panel Mount Option not available
- Anti-Tamper Valve Head Options available
- All non-wetted parts in 316 stainless steel





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

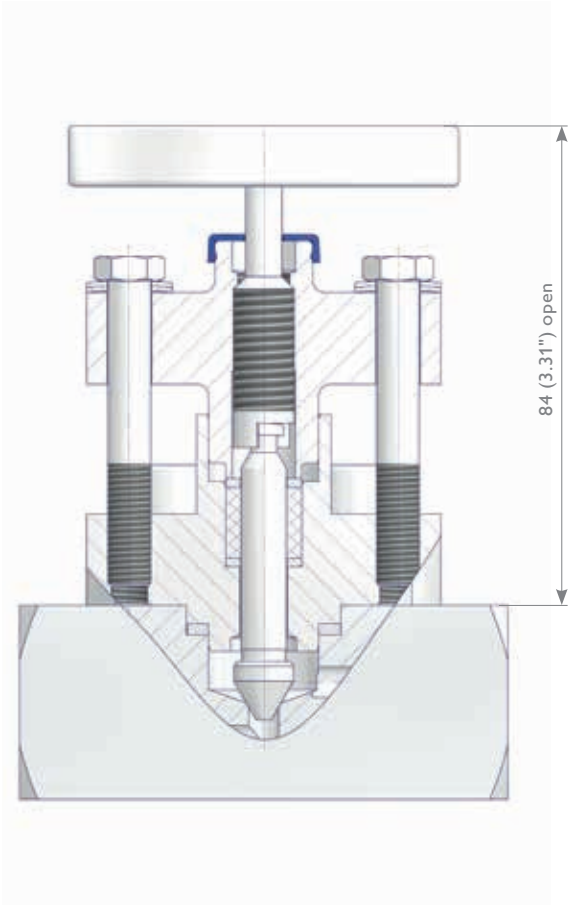
Standard Valve Head Units

Needle Valves with OS&Y Bolted Bonnet

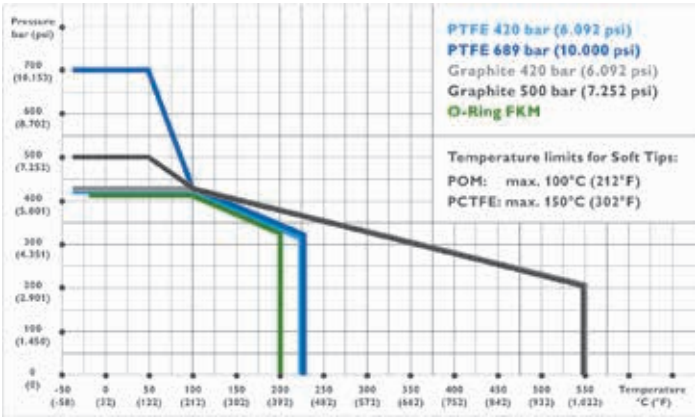
OS&Y Bolted Bonnet – Standard Packing

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
- Color Coded Dust Cap for operating thread protection
- Max. allowable (Working) Pressure (PS): 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 for Standard Valve Head Units acc. to Page 6 – 8



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.

Low-temperature Limits:
- Standard Valves with PTFE and Graphite Packing: -40°C (-40°F)
- Valves with PTFE Packing and Arctic Operations Option, Code K: -55°C (-67°F)
- Valves with FKM O-Ring Needle Seal: -20°C (-4°F)

For Carbon Steel Body Material:
- Material No. 1.0460: -10°C (14°F)
- ASTM A350 LF2: - 46°C (-51°F)

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

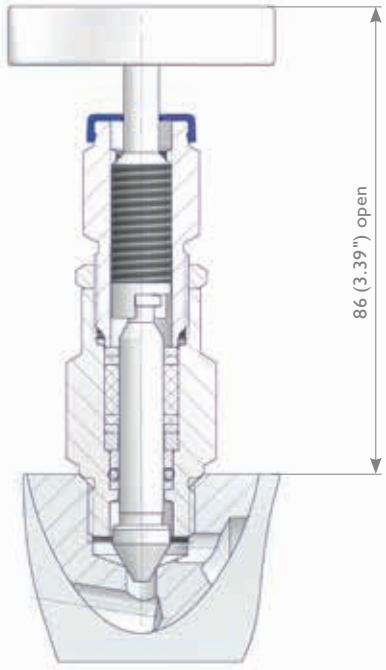
Features

- 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
- Color Coded Dust Cap for operating thread protection
- Max. allowable (Working) Pressure (PS): 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°C to 40°C (–20°F to 104°F)
Class A 500 cycles / –29°C to 200°C (–20°F to 392°F)
Class B 1,500 cycles / –29°C to 200°C (–20°F to 392°F)

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



OS&Y Needle Valves acc. to ISO 15848

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

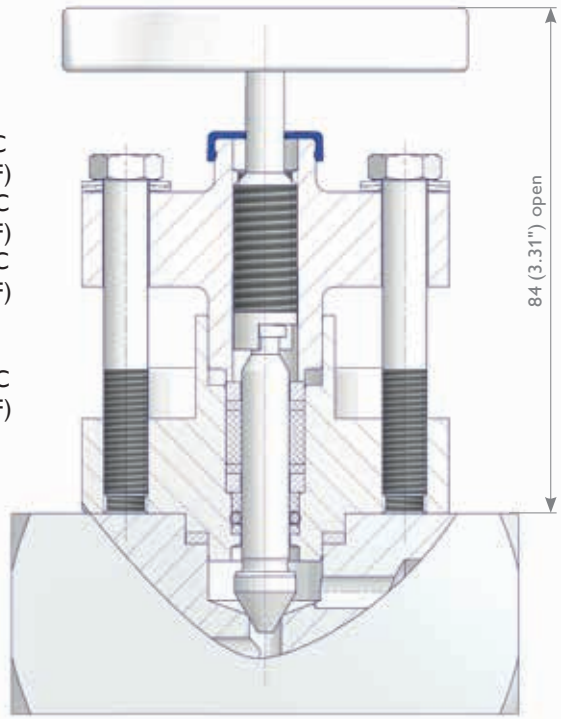
Features

- 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
- Color Coded Dust Cap for operating thread protection
- Max. allowable (Working) Pressure (PS): 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°C to 40°C (–20°F to 104°F)
Class A 500 cycles / –29°C to 200°C (–20°F to 392°F)
Class B 2,500 cycles / –29°C to 200°C (–20°F to 392°F)

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



Valve Head Units for Fugitive Emission Applications

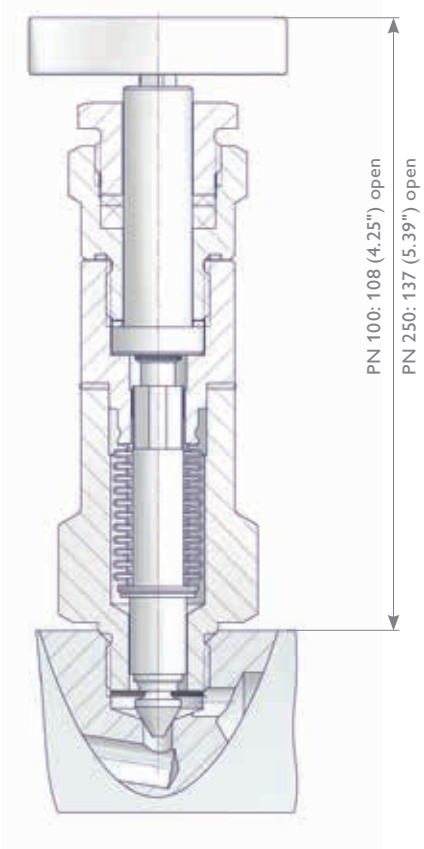
Bellows Sealed Head Units

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.



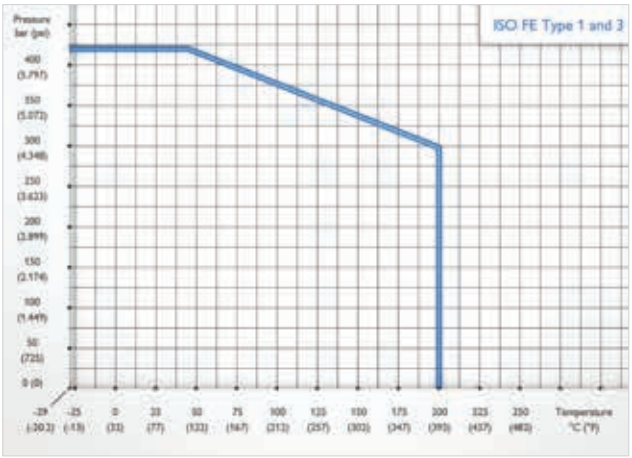
Packing adjustment may be required during the service life of the valves.

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 belllows 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.

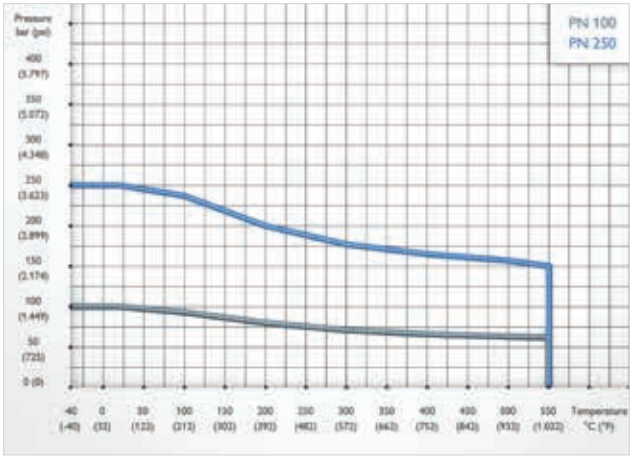
Pressure-Temperature Rating

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

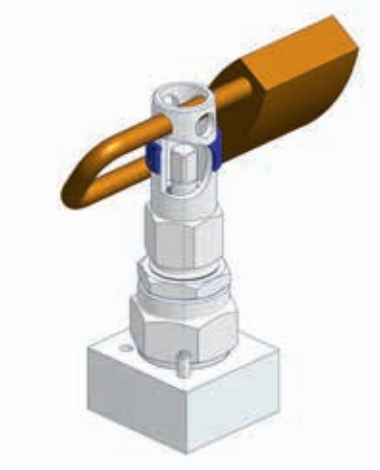
AS-Schneider is providing 2 Anti-Tamper Valve Head Units, both types are lockable with a padlock.

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 color 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 I Outlet = Instrument / Transmitter Connection

Tube Fittings

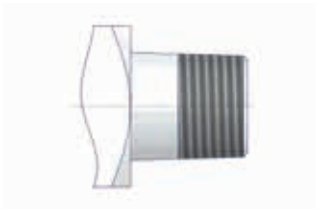
Single Ferrule Tube Fittings
acc. to EN ISO 8434-1 Size S

Twin Ferrule Tube Fittings

Tapered Pipe Threads

NPT Male Threads
acc. to ASME B 1.20.1

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

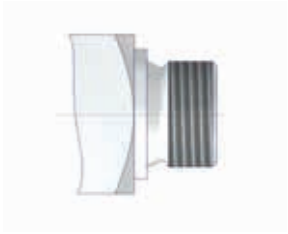


NPT Female Threads
acc. to ASME B 1.20.1

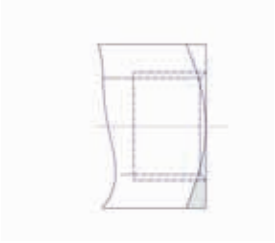
BSP Tapered Thread
acc. to ISO 7/1 (e.g. Rc 1/2)

Parallel Pipe Threads

BSP Parallel Male Thread
acc. to ISO 228 (e.g. G1/2)
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



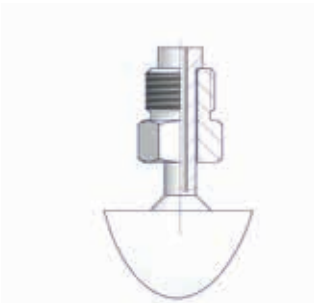
Weld Ends

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

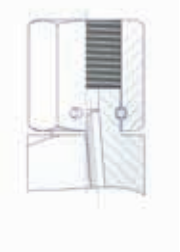
Pressure Gauge Connections - For Parallel Pipe Threads only

Swivel Male Connection



Adjusting Nut
acc. to DIN 16283

Swivel Nut (Wire Design)

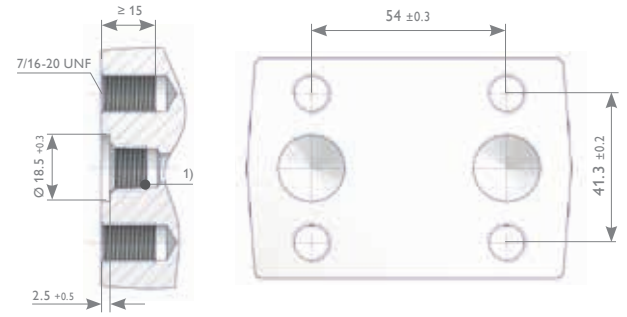


Swivel Nut
(Welded Nipple Design)
acc. to DIN 16284

Flange Connections

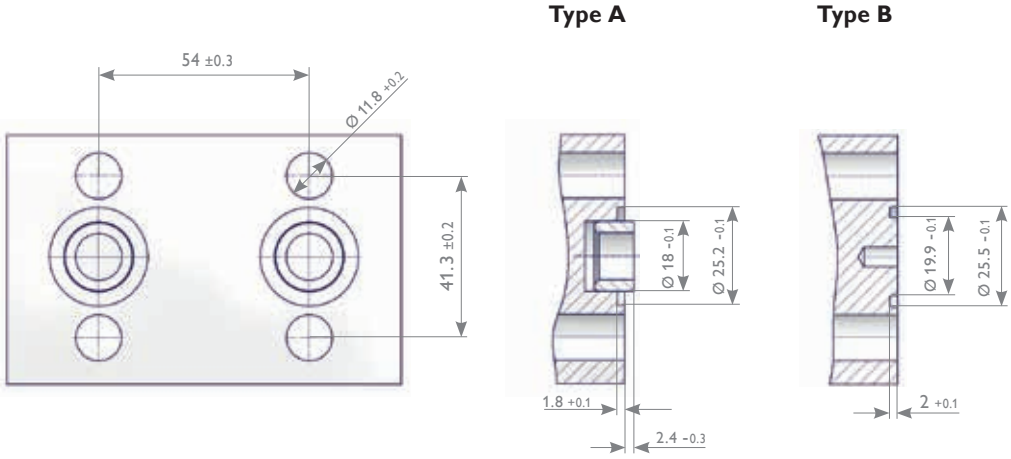
According to DIN EN 61518 the manifold-transmitter interface is applicable for a max. allowable (Working) Pressure (PS) of 413 bar*3 (6,000 psi) and a max. allowable Temperature (TS) of 120°C (248°F) for liquids, gas or vapors. The max. allowable Temperature (TS) of 120°C (248°F) is considering the requirement 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



1) 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*1 I *3				
	Type A with spigot			Type B without spigot	
Max. allowable (Working) Pressure (PS) in bar (psi)	413 (6,000)*3			413 (6,000)*3	
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*2	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	

*1 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).

*2 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.

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

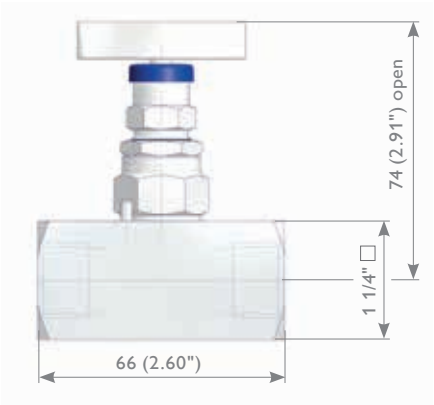
Hand Valves

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.

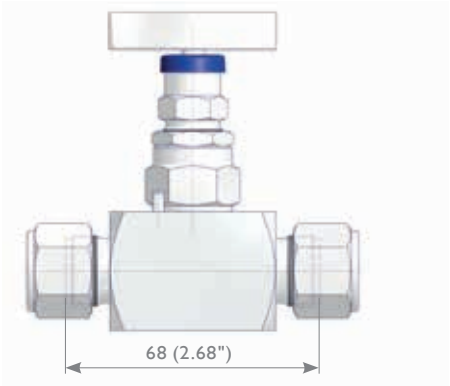
The dimensions shown apply only to the illustrated valves (1/2 NPT Threaded) – if you need the dimensions for your individual type or should you still not find your options at all please contact the factory.

Hand Valve Female x Female Threaded
HAFF Type

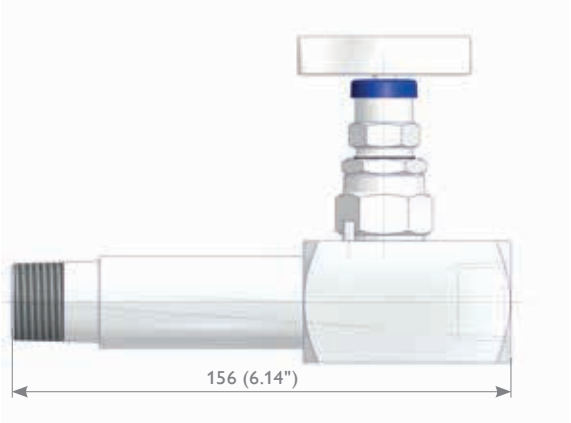


Hand Valve Male x Female Threaded
HAMF Type

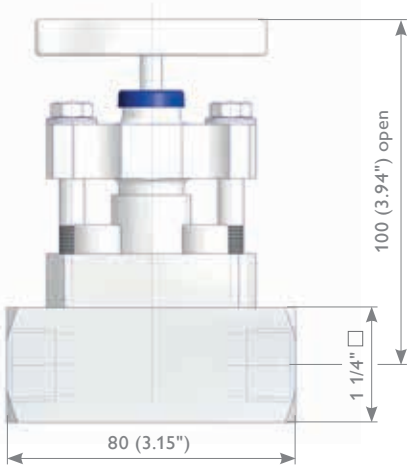
Hand Valve with Integral Tube Fittings
HATT Type



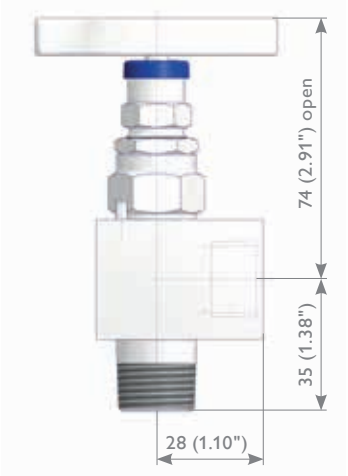
Hand Valve with Extended Body
HXMF Type
Extended by approx. 3"



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	A	T	T	S	A	-	R	4	R	4	-	M	S		

H	**Hand Valves**						
	Basic Design						
A	Screwed Bonnet	L	Angle Hand Valve (Screwed Bonnet)				
F	OS&Y Bonnet	X	Extended Body (Screwed Bonnet)				
	Inlet						
M	Male	B	Butt Weld End				
F	Female	S	Socket Weld End				
T	Integral Tube Fitting	A	1/2 NPT with Tube Fitting				
	Outlet						
M	Male	B	Butt Weld End				
F	Female	S	Socket Weld End				
T	Integral Tube Fitting	A	1/2 NPT with Tube Fitting				
	Material						
S	1.4401 / 1.4404 / 316 / 316L	F	Duplex UNS S31803	B	6Mo UNS S31254		
M	Alloy 400 UNS N04400	D	Super Duplex UNS S32750	T	Titanium Grade 2		
H	Alloy C-276 UNS N10276	V	Alloy 625 UNS N06625				
	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**		**Butt Weld End**		**Socket Weld End**
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	K	Twin Ferrule Tube Fitting	6	3/4" Pipe	E	For 14 mm Tube (Ø 14.25 mm)
R	BSP Taper (R/Rc) – ISO 7/1			D	12 mm	2	For 1/4" Pipe
				E	14 mm		
	Inch Sizes		**Tube Fitting Sizes**		**Wall Thickness Butt Weld**	A	**Socket Weld**
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"				
	Outlet						
	Thread Type		**Fitting Type**		**Butt Weld End**		**Socket Weld End**
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	K	Twin Ferrule Tube Fitting	6	3/4" Pipe	E	For 14 mm Tube (Ø 14.25 mm)
R	BSP Taper (R/Rc) - ISO 7/1			D	12 mm	2	For 1/4" Pipe
				E	14 mm		
	Inch Sizes		**Tube Fitting Sizes**		**Wall Thickness Butt Weld**	A	**Socket Weld**
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"				
	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						
H	10,000 psi (689 bar) for PTFE Packing I 7,252 psi (500 bar) for Graphite Packing						
P	Power Piping ASME B31.1 – For Graphite Packing only						
K	Arctic Operations (-55°C (-67°F)) – For PTFE Packing only						
M	Wetted Parts with 3.1 certificate						
C	Panel Mounting						
	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						

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

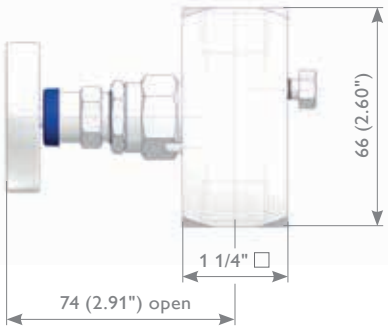
Gauge Valves

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.

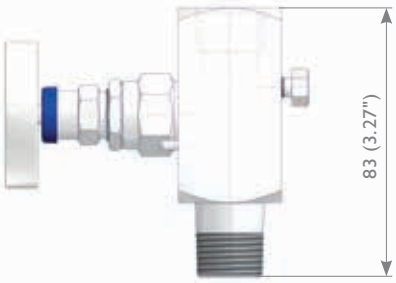
You find a lot more options on the next page – Ordering Information Gauge Valves. Accessories like Swivel Gauge Adaptors, Vent Valves etc. see Pages 48-53.

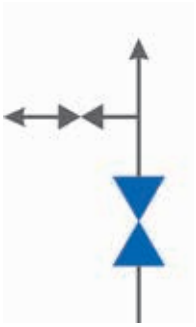
The dimensions shown apply only to the illustrated valves (1/2 NPT / G 1/2 Threaded) – if you need the dimensions for your individual type or should you still not find your options at all please contact the factory.

Gauge Valve Female x Female Threaded
GSFF Type

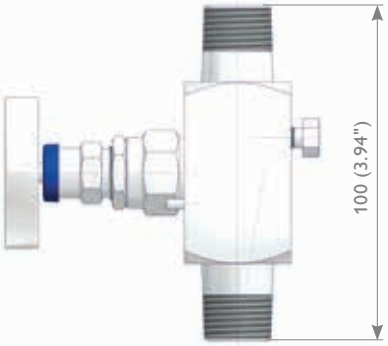


Gauge Valve Male x Female Threaded
GSMF Type

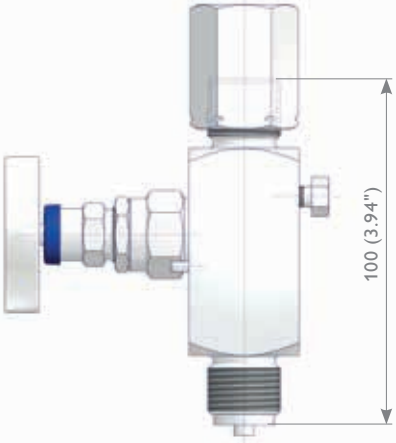




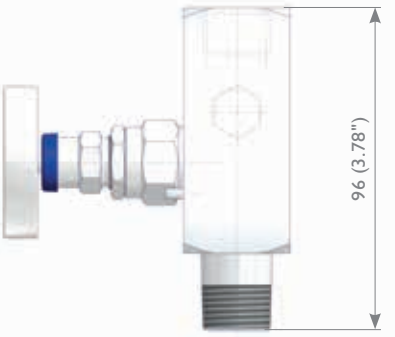
Gauge Valve Male x Male Threaded
GSMM Type



Gauge Valve Male x Adjusting Nut
GSMG Type



Gauge Valve Male x Female Threaded
GAMF Type



Female Threaded Vent Connection - Pipe Plug installed

Mounting Bracket
AKM-S Type

See also Page 48.

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			

G Gauge Valves

Vent Connection

S	Bleed Screw	C	G 1/4 Female
A	1/4 NPT Female	D	G 1/2 Female
B	1/2 NPT Female		

Inlet

M	Male	B	Butt Weld End
F	Female	S	Socket Weld End
T	Integral Tube Fitting	A	1/2 NPT with Tube Fitting

Outlet

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)

Material

S	1.4401 / 1.4404 / 316 / 316L	F	Duplex UNS S31803	B	6Mo UNS S31254
M	Alloy 400 UNS N04400	D	Super Duplex UNS S32750	T	Titanium Grade 2
H	Alloy C-276 UNS N10276	V	Alloy 625 UNS N06625		

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		Butt Weld End		Socket Weld End	
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	K	Twin Ferrule Tube Fitting	6	3/4" Pipe	E	For 14 mm Tube (Ø 14.25 mm)
H	BSP Parallel (G) – DIN 3852			D	12 mm	2	For 1/4" Pipe
R	BSP Taper (R/Rc) – ISO 7/1			E	14 mm		
M	Metric similar to EN 837-1						

Inch Sizes		Tube Fitting Sizes		Wall Thickness Butt Weld		A	Socket Weld
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		

Metric Size

4	M 20 x 1.5

Outlet

Male / Female Thread Sizes		Thread Sizes EN 837-1 - Female Threads only	
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	M 20 x 1.5

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
H	10,000 psi (689 bar) for PTFE Packing I 7,252 psi (500 bar) for Graphite Packing
P	Power Piping ASME B31.1 - For Graphite Packing only
K	Arctic Operations (-55°C (-67°F)) – For PTFE Packing only
M	Wetted Parts with 3.1 certificate
C	Panel Mounting

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

Accessory Kits

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

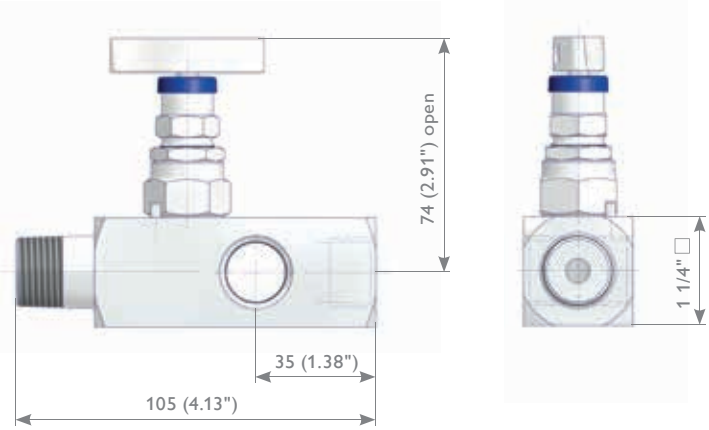
Multiport Gauge Valves

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.

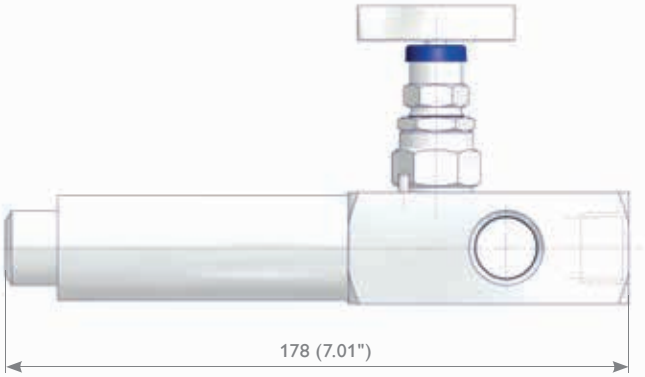
Accessories like Pipe Plugs and Vent Valves can be ordered separately or already factory installed – see also options next page – Ordering Information Multiport Gauge Valves. Accessories like Swivel Gauge Adaptors, Vent Valves etc. see Pages 48-53.

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"



Outlet Options

Open

Outlet 1

Outlet 2

Outlet 3

Vent Valve VS

Vent Valve VT

Pipe Plug

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			

M	**Multiport Gauge Valves**

	Basic Design
A	Screwed Bonnet
F	OS&Y Bonnet
X	Extended Body (Screwed Bonnet)

	Inlet		
M	Male	B	Butt Weld End
F	Female	S	Socket Weld End

	Outlet
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

	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		**Butt Weld End**
N	NPT	4	1/2" Pipe
H	BSP Parallel (G) – DIN 3852	6	3/4" Pipe
	Inch Sizes		**Wall Thickness Butt Weld**
2	1/4	P	Schedule 80
4	1/2	Q	Schedule 160
6	3/4	4	4.0 mm

	Outlet		
	Thread Sizes - Female Threads only		
N2	1/4 NPT	H4	G 1/2 (1/2 BSP P) - DIN 3852
N4	1/2 NPT		

	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
H	10,000 psi (689 bar) for PTFE Packing I 7,252 psi (500 bar) for Graphite Packing
P	Power Piping ASME B31.1 – For Graphite Packing only
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

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

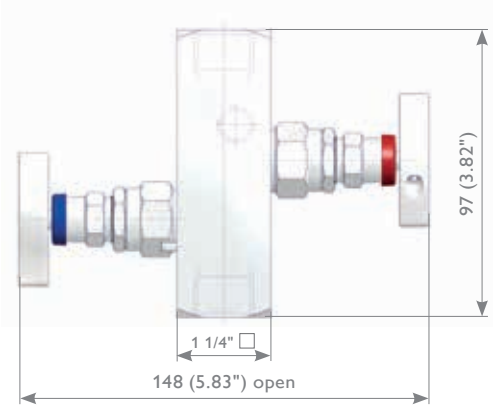
Block & Bleed and Double Block & Bleed Manifolds

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.

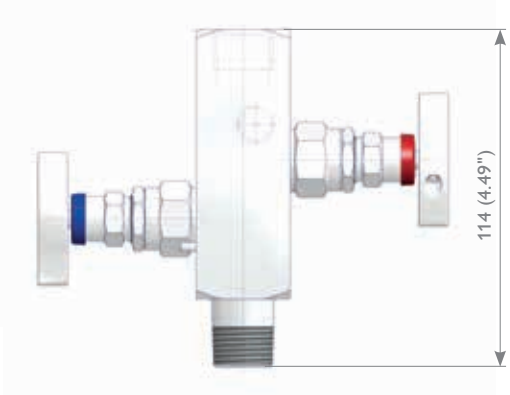
The dimensions shown apply only to the illustrated valves (1/2 NPT Threaded) – if you need the dimensions for your individual type or should you still not find your options at all please contact the factory.

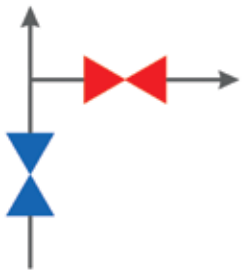
Block & Bleed Manifolds – Female Threaded Instrument Connection

SAFF Type



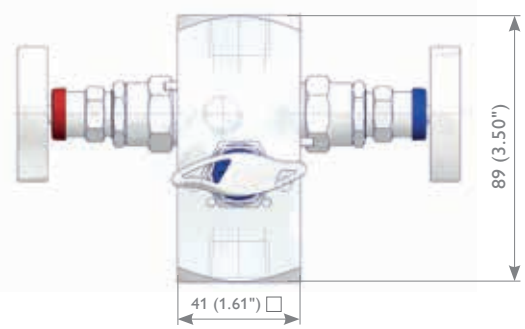
SAMF Type



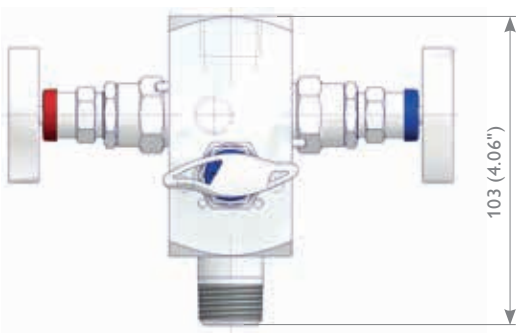


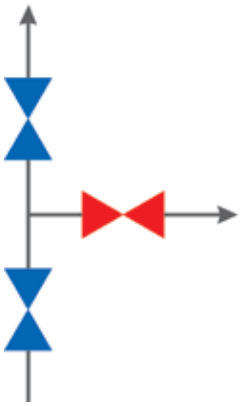
Double Block & Bleed Manifolds – Female Threaded Instrument Connection

CAFF Type



CAMF Type





Mounting Bracket
AKM-G Type
See also Page 48.

Mounting Bracket
AKM-S Type
See also Page 48.

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	-	9	Q	U	

S	**Block & Bleed Manifolds**
C	**Double Block & Bleed Manifolds**

Vent Connection

A	1/4 NPT Female	C	G 1/4 Female
B	1/2 NPT Female	D	G 1/2 Female

Inlet

M	Male	B	Butt Weld End
F	Female	S	Socket Weld End
T	Integral Tube Fitting	A	1/2 NPT with Tube Fitting

Outlet

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)

Material

S	1.4401 / 1.4404 / 316 / 316L	F	Duplex UNS S31803	B	6Mo UNS S31254
M	Alloy 400 UNS N04400	D	Super Duplex UNS S32750	T	Titanium Grade 2
H	Alloy C-276 UNS N10276	V	Alloy 625 UNS N06625		

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		Butt Weld End		Socket Weld End	
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	K	Twin Ferrule Tube Fitting	6	3/4" Pipe	E	For 14 mm Tube (Ø 14.25 mm)
H	BSP Parallel (G) – DIN 3852			D	12 mm	2	For 1/4" Pipe
R	BSP Taper (R/Rc) – ISO 7/1			E	14 mm		
M	Metric similar to EN 837-1						

Inch Sizes		Tube Fitting Sizes		Wall Thickness Butt Weld		A	Socket Weld
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		

Metric Size

4	M 20 x 1.5

Outlet

Male / Female Thread Sizes		Thread Sizes EN 837-1 - Female Threads only	
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	M 20 x 1.5

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
H	10,000 psi (689 bar) for PTFE Packing I 7,252 psi (500 bar) for Graphite Packing
P	Power Piping ASME B31.1 – For Graphite Packing only
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

Accessory Kits

8	SST Mounting Bracket AKM-S Type for 2" Pipe Mounting supplied separately – For Vertical Impulse Piping Installations of Block & Bleed Manifolds Type S
9	SST Mounting Bracket AKM-G Type for 2" Pipe Mounting supplied separately – For Vertical Impulse Piping Installations of Double Block & Bleed Manifolds Type C

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.

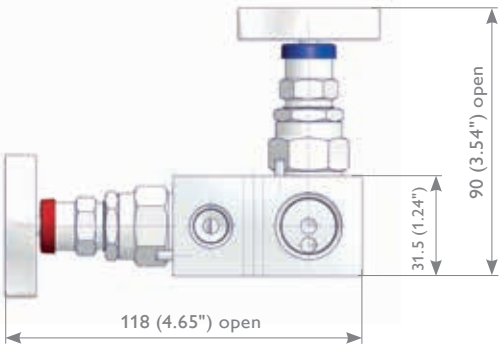
L, Y & W-Shaped Manifolds

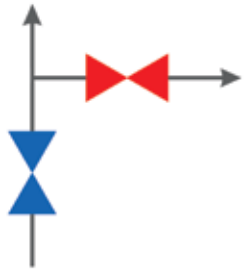
L, Y & W-Shaped Manifolds

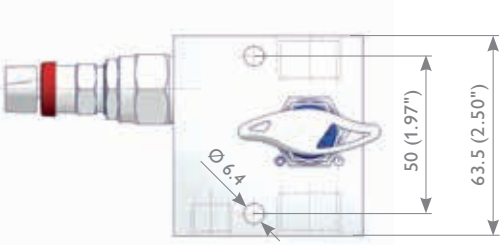
AS-Schneider L, Y & W-Shaped Manifolds are designed for mounting to Pressure Gauges, Pressure Transmitters and Pressure Switches. The standard vent connection is 1/4 NPT female. Pipe plugs are not installed as standard. For plugged vent ports (factory installed) – see also options Page 24 – Ordering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

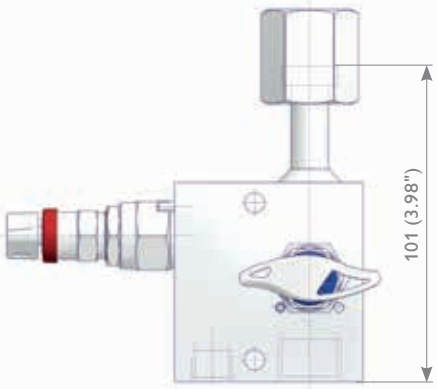
L-Shaped Manifolds





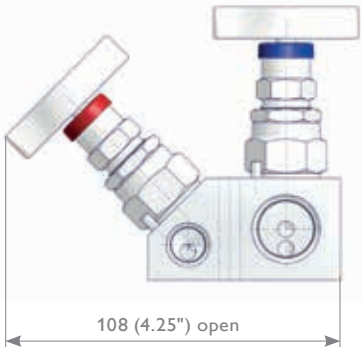


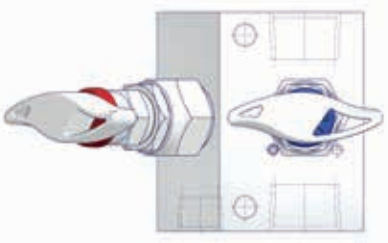
PLAA Type



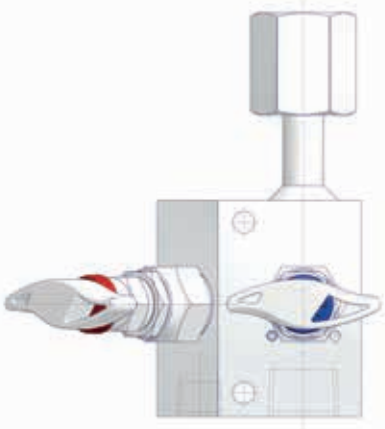
PLAB Type

Y-Shaped Manifolds





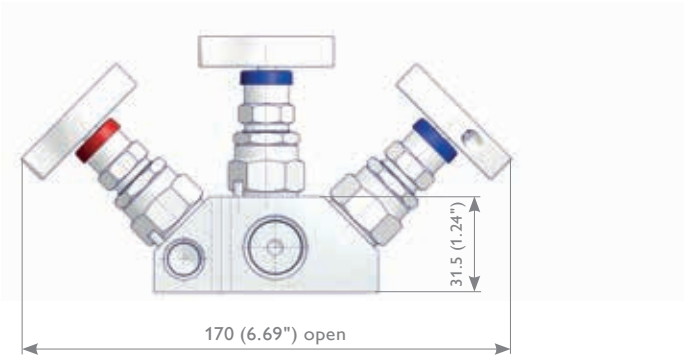
PYAA Type

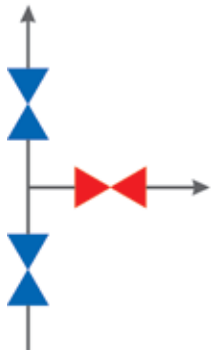


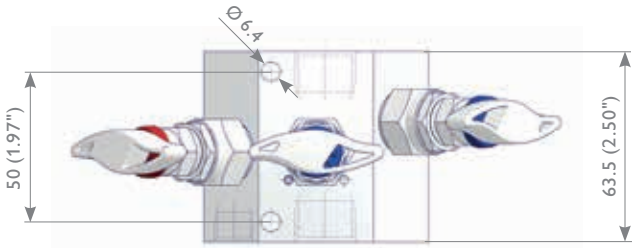
PYAB Type

Mounting Bracket
AKM-R Type
See also Page 48.

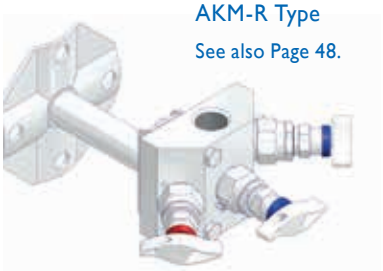
W-Shaped Manifolds
PWAA Type







Mounting Bracket
AKM-R Type
See also Page 48.



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	

P	**L,Y & W-Shaped Manifolds**

	Manifold Type
L	L-Shaped Bonnet Orientation
Y	Y-Shaped Bonnet Orientation
W	W-Shaped Bonnet Orientation → Double Block & Bleed Type

	Vent Connection		
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

	Inlet x Outlet Configuration		
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		

	Material				
S	1.4401 / 1.4404 / 316 / 316L	F	Duplex UNS S31803	B	6Mo UNS S31254
M	Alloy 400 UNS N04400	D	Super Duplex UNS S32750	T	Titanium Grade 2
H	Alloy C-276 UNS N10276	V	Alloy 625 UNS N06625		

	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**
N	NPT	C	Single Ferrule Tube Fitting
H	BSP Parallel (G) – DIN 3852	K	Twin Ferrule Tube Fitting

	Thread Size		**Tube Fitting Sizes**
2	1/4	4	12 resp. 12S
4	1/2	9	1/2"

	Outlet
	Thread Type
N4	1/2 NPT Female
G4	G 1/2 Swivel Nut
M4	M 20 x 1.5 Swivel Nut

	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
H	10,000 psi (689 bar) for PTFE Packing I 7,252 psi (500 bar) for Graphite Packing
P	Power Piping ASME B31.1 – For Graphite Packing only
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

	Accessory Kits
8	SST Mounting Bracket AKM-R Type for 2" Pipe Mounting supplied separately – For Vertical Impulse Piping Installations

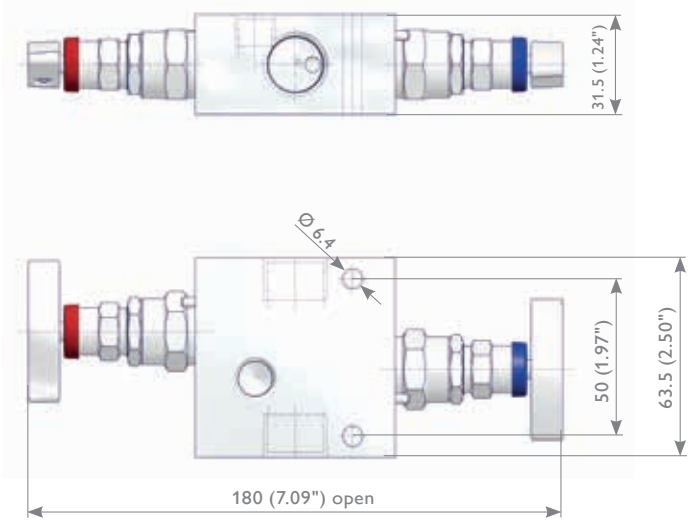
Wetted Parts according to above mentioned material list are supplied according to NACE MR0175/MR0103 and ISO 15156 (latest issue) - except Titanium Grade 2.
Note: Not every configuration which can be created in the ordering information is feasible / available.

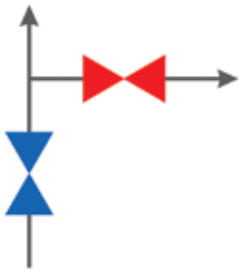
Remote Mounted Manifolds (2, 3 and 5 Valve Manifolds)

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.

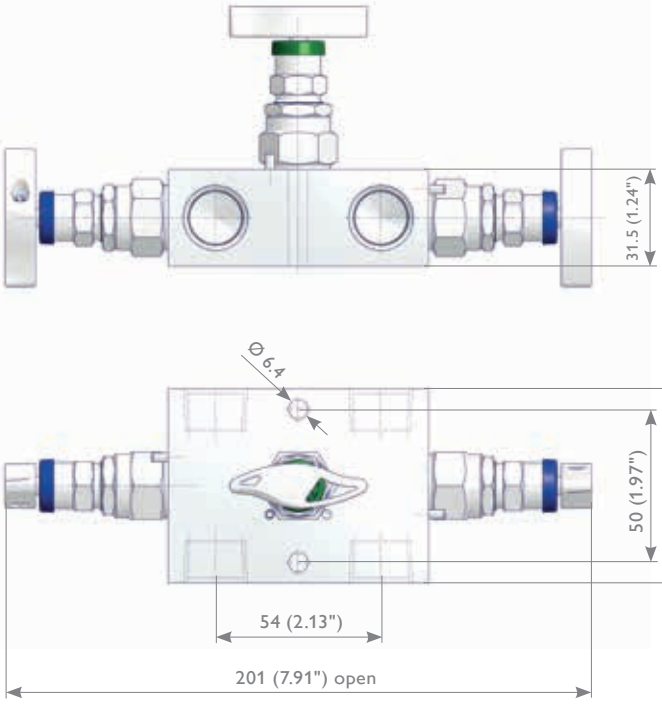
The dimensions shown apply only to the illustrated valves (1/2 NPT Threaded) – if you need the dimensions for your individual type or should you still not find your options at all please contact the factory.

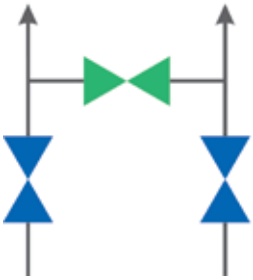
2 Valve Manifolds, Remote Mounted
R2AA Type





3 Valve Manifolds, Remote Mounted without Vent Connection
R3AA Type

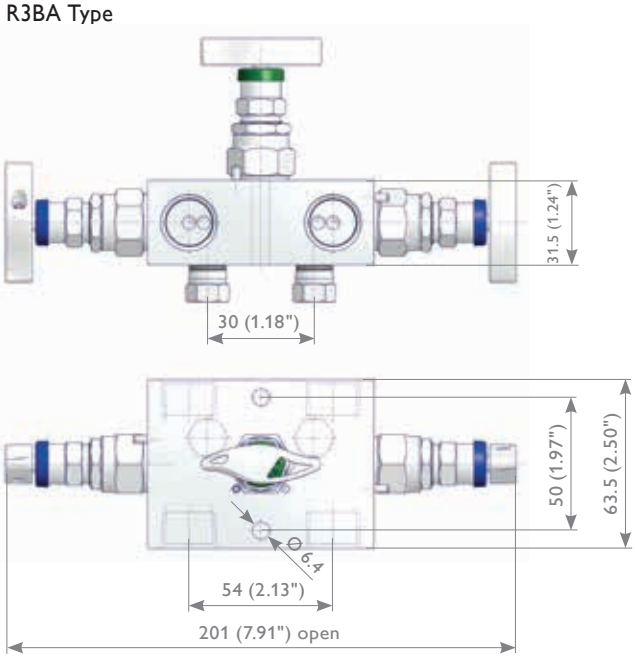


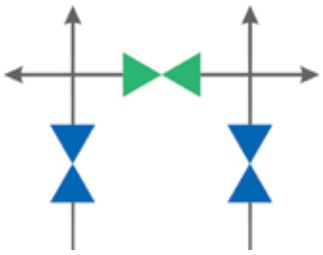


Mounting Bracket
AKM-R Type
See also Page 48.

Remote Mounted Manifolds

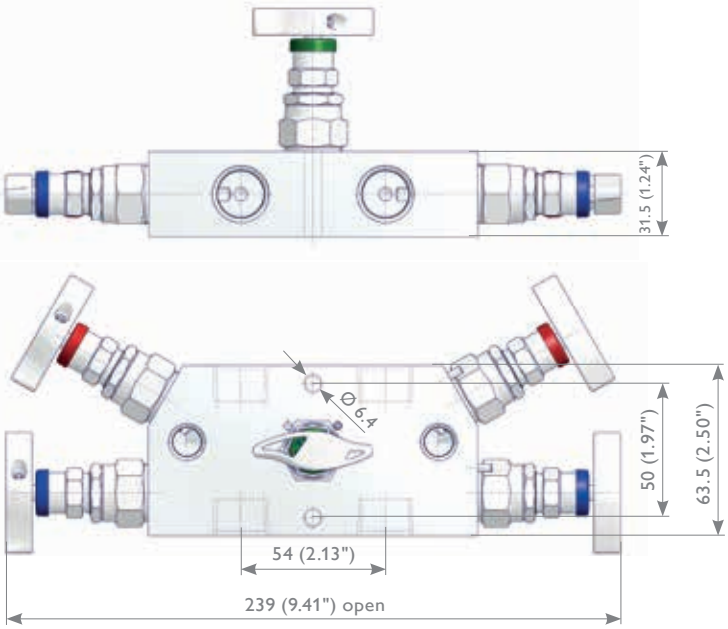
3 Valve Manifolds, Remote Mounted with Vent Connection 1/4 NPT Female
R3BA Type

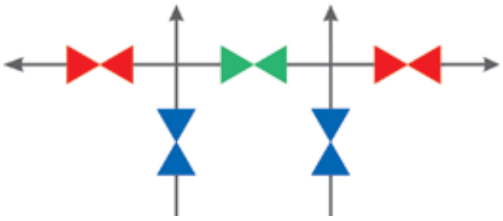




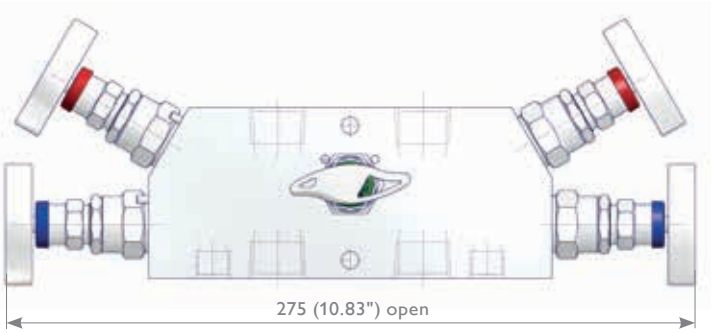
AKM-R Type Mounting Bracket not suitable.

5 Valve Manifolds, Remote Mounted
R5AA Type





Vent Ports on Process Side
R5GA Type



Mounting Bracket
AKM-R Type
See also Page 48.

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		

R	**Remote Mounted Manifolds**

	Quantity Bonnets – 2, 3 or 5

	Vent Connection
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

	Inlet and Outlet
A	Female Connections
B	1/4 NPT with Tube Fittings
C	1/2 NPT with Tube Fittings
D	G 1/2 with Tube Fittings

	Material				
S	1.4401 / 1.4404 / 316 / 316L	F	Duplex UNS S31803	B	6Mo UNS S31254
M	Alloy 400 UNS N04400	D	Super Duplex UNS S32750	T	Titanium Grade 2
H	Alloy C-276 UNS N10276	V	Alloy 625 UNS N06625		

	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**
N	NPT	C	Single Ferrule Tube Fitting
H	BSP Parallel (G) – DIN 3852	K	Twin Ferrule Tube Fitting
	Thread Size		**Tube Fitting Sizes**
2	1/4	4	12 resp. 12S
4	1/2	9	1/2"

	Outlet		
	Thread Type		**Fitting Type**
N	NPT	C	Single Ferrule Tube Fitting
H	BSP Parallel (G) - DIN 3852	K	Twin Ferrule Tube Fitting
	Thread Size		**Tube Fitting Sizes**
2	1/4	4	12 resp. 12S
4	1/2	9	1/2"

	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
H	10,000 psi (689 bar) for PTFE Packing I 7,252 psi (500 bar) for Graphite Packing
P	Power Piping ASME B31.1 – For Graphite Packing only
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

	Accessory Kits
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.

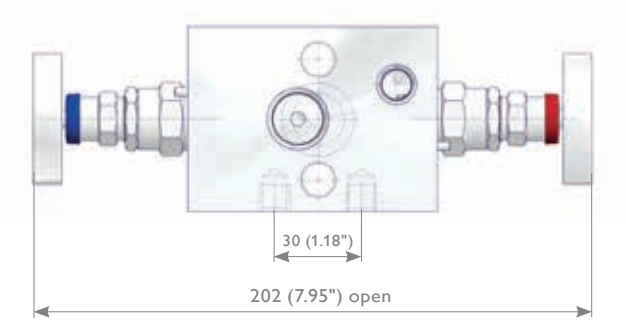
The standard type of 3 Valve Manifolds is the one without vent connection. 3 Valve Manifolds with vent connection are supplied with installed pipe plugs as standard. Integral Style 3 Valve Manifolds with Coplanar™ flange connection are provided with vent connections 1/4 NPT female as standard – plugged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

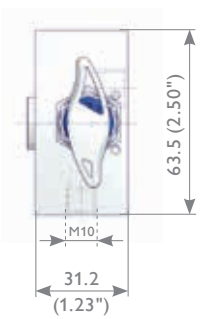
We differentiate between Wafer Style Manifolds (see Page 28-33) and Traditional Style Manifolds (see Page 34-37), the Wafer Type for the Rosemount 2051/3051 Coplanar™ Pressure Transmitter is just called Coplanar™ Style Manifold. You will find the Integral Manifolds for 2051/3051 Coplanar™ Pressure Transmitters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

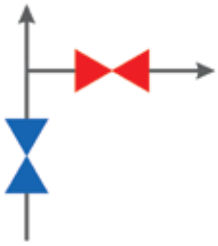
The dimensions shown apply only to the illustrated valves (1/2 NPT Threaded / Flange Interface DIN EN 61518) – if you need the dimensions for your individual type or should you still not find your options at all please contact the factory.

Wafer Style Manifolds

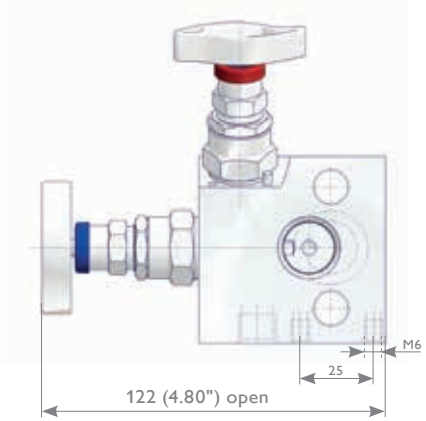
2 Valve Manifolds – Standard
W2AA Type

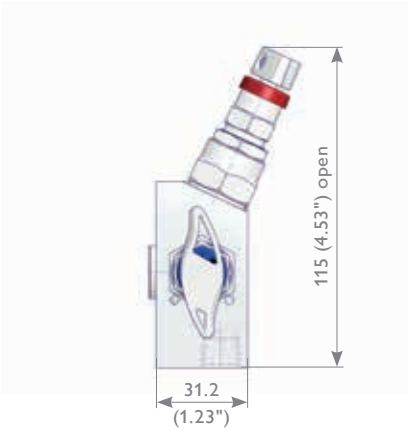


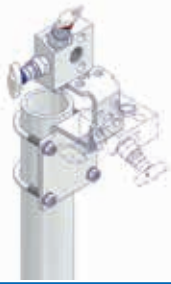




2 Valve Manifolds – L-Shaped Bonnet Orientation
W2LA Type





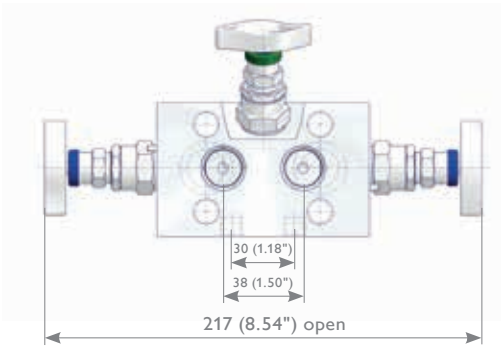


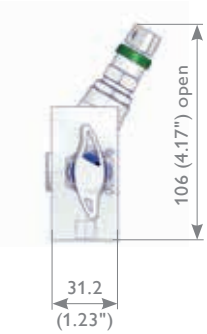
Mounting Bracket
AKM-U Type
See also Page 49.

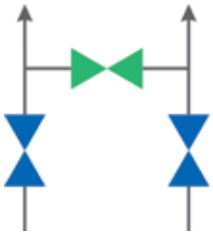
Mounting Bracket
AKM-U Type
See also Page 49.

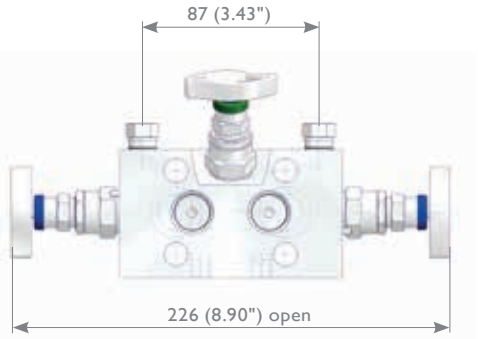
Mounting Bracket
AKM-D Type
See also Page 48.

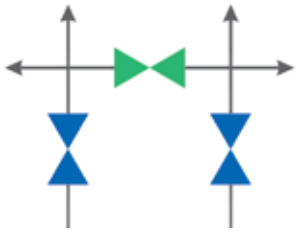
3 Valve Manifolds – Standard (Female x Flanged)
Without Vent Connection W3AA Type
With Vent Connection W3BA Type



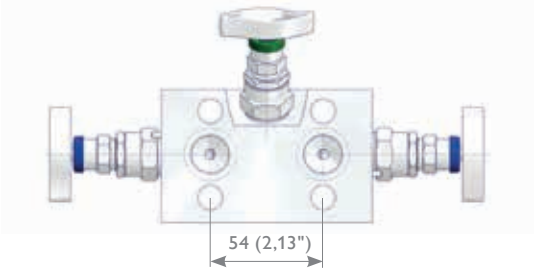


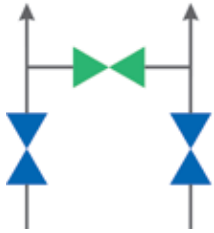


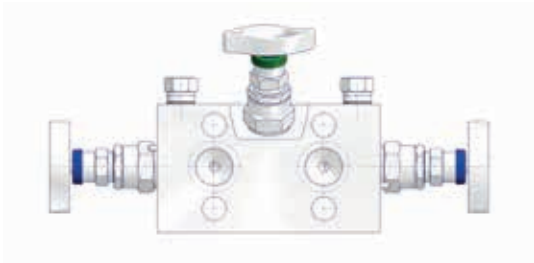


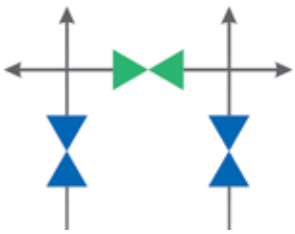


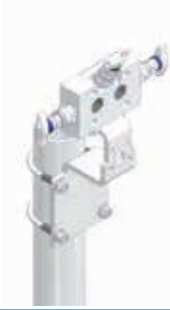
3 Valve Manifolds – Standard (Flanged x Flanged)
Without Vent Connection W3AB Type
With Vent Connection W3BB Type









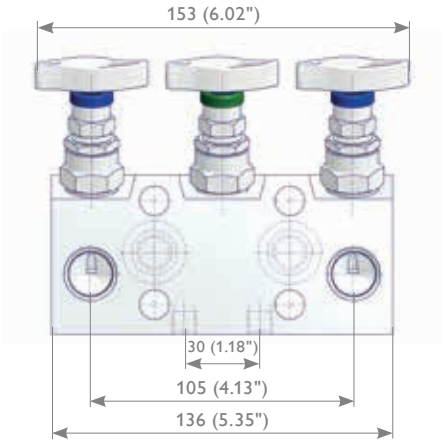


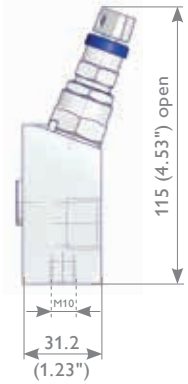
Mounting Bracket
AKM-U Type
See also Page 49.

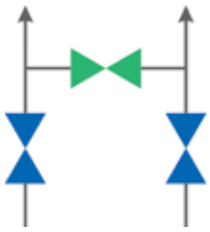
Mounting Bracket
AKM-D Type
See also Page 48.

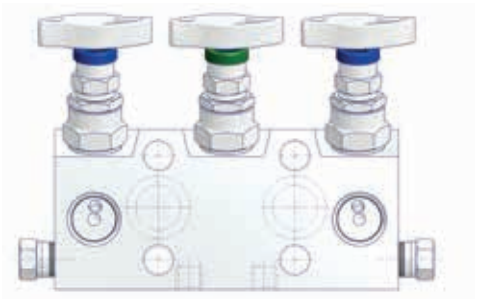
Direct Mount Manifolds - Wafer Style

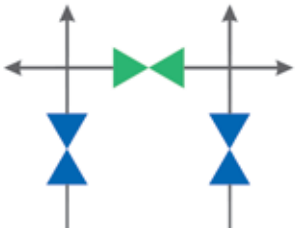
3 Valve Manifolds – Compact Design (Female x Flanged)
Without Vent Connection W3CA Type
With Vent Connection 1/4 NPT Female W3DA Type



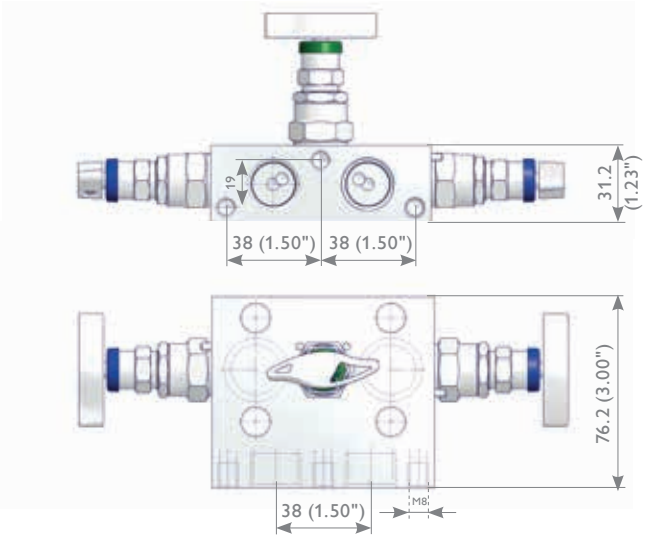


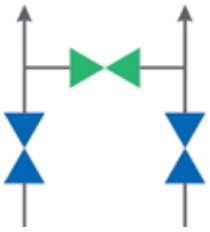






3 Valve Manifolds – Bottom Inlet Design (Female x Flanged)
W3EA Type





For Bottom Inlet Design only

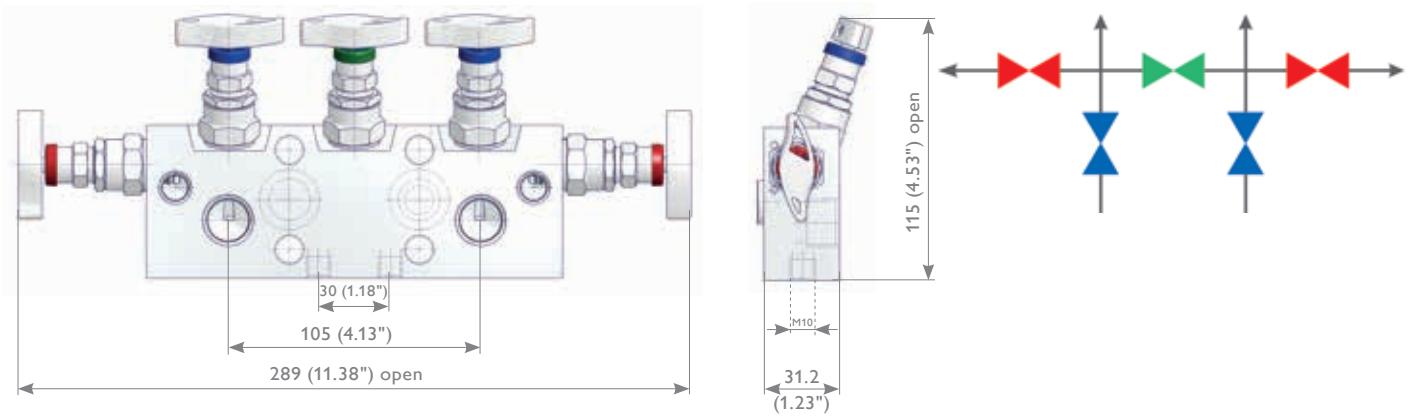
Mounting Bracket
AKM-B Type
See also Page 48.

For Compact Design

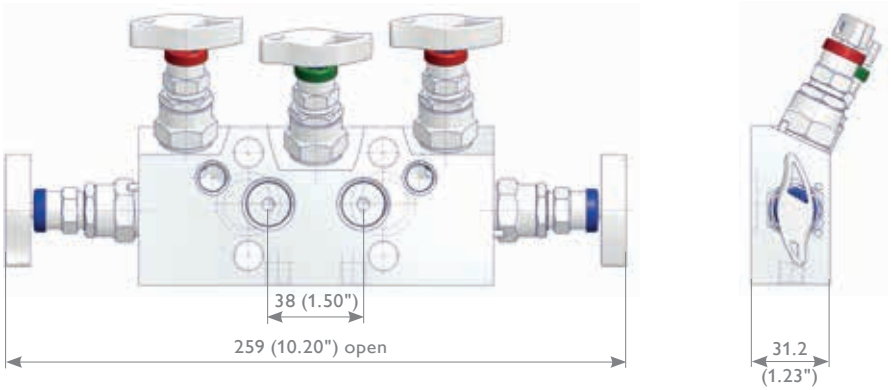
Mounting Bracket
AKM-U Type
See also Page 49.

Mounting Bracket
AKM-D Type
See also Page 48.

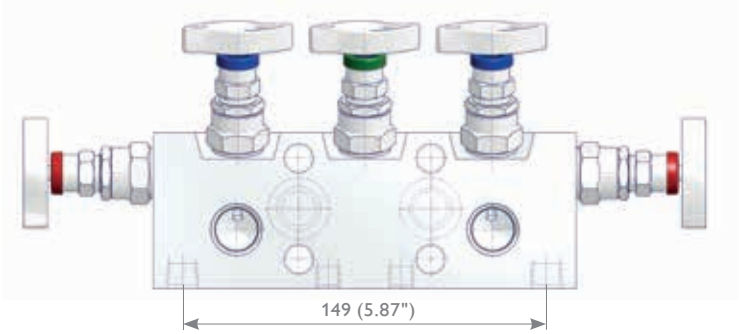
5 Valve Manifolds – Standard (Female x Flanged IEC 61518-A)
W5AA Type



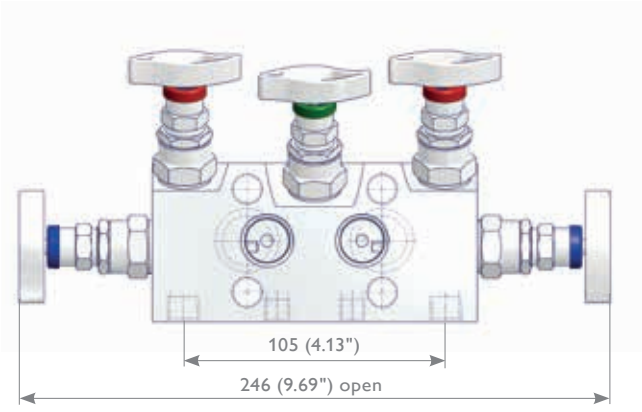
5 Valve Manifolds – Female x Flanged IEC 61518-B
W5AA Type



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



Illustrated type with IEC 61518-A connection



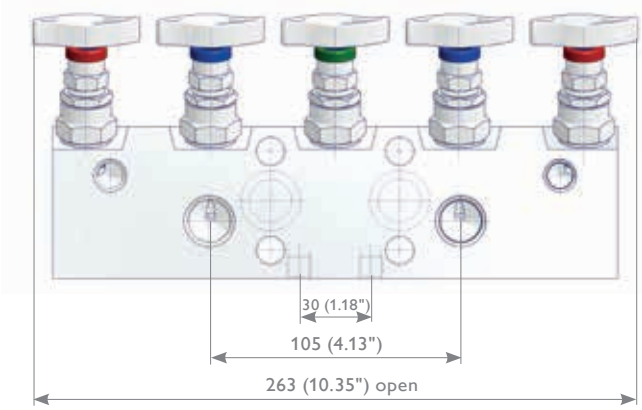
Illustrated type with IEC 61518-B connection
Only suitable for AKM-U type Mounting Bracket

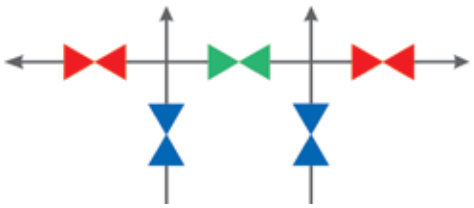
Mounting Bracket
AKM-U Type
See also Page 49.

Mounting Bracket
AKM-D Type
See also Page 48.

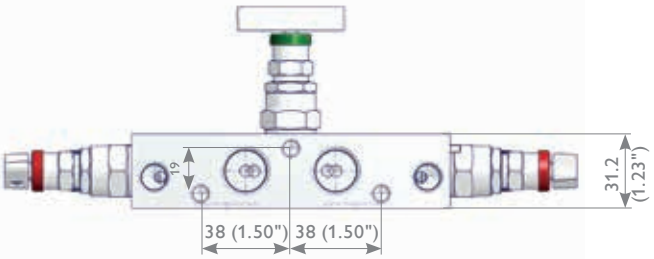
Direct Mount Manifolds - Wafer Style

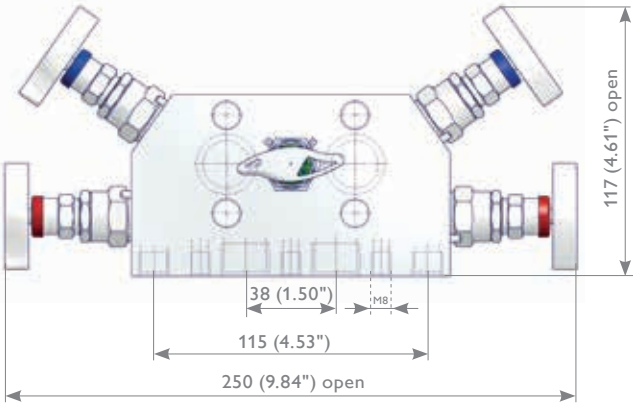
5 Valve Manifolds – Compact Design (Female x Flanged)
W5CA Type





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.

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	

W – Wafer Style Manifolds

Quantity Bonnets – 2-5

Manifold Specifics

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*2
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

Inlet

A	Female
B	Flanged
C	1/2 NPT with Tube Fittings
D	G 1/2 with Tube Fittings

Material

S	1.4401 / 1.4404 / 316 / 316L	F	Duplex UNS S31803	B	6Mo UNS S31254
M	Alloy 400 UNS N04400	D	Super Duplex UNS S32750	T	Titanium Grade 2
H	Alloy C-276 UNS N10276	V	Super Duplex UNS S32760		

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	T	Flange Interface
H	BSP Parallel (G) – DIN 3852	K	Twin Ferrule Tube Fitting		

Thread Size		Tube Fitting Sizes		Flange Interface	
2	1/4	4	12 resp. 12S	4	EN 61518 without 1/4 NPT
4	1/2	5	14 resp. 14S		
		9	1/2"		

Outlet

Transmitter Interface

TD	DIN EN 61518-A
TE	DIN EN 61518-B

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*2
P	Power Piping ASME B31.1 – For Graphite Packing only
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

Standard Accessory Kits for Manifold to Transmitter mounting according to DIN EN 61518 / IEC 61518*4

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

Mounting Bracket Kits

7	CST Mounting Bracket AKM-D Type for 2" Pipe Mounting supplied separately – For Vertical Impulse Piping Installations*1 I *3
8	SST Mounting Bracket AKM-B, or -D Type for 2" Pipe Mounting supplied separately – For Vertical Impulse Piping Installations*1 I *3
9	SST Mounting Bracket AKM-U Type for 2" Pipe Mounting supplied separately – For Horizontal and Vertical Impulse Piping Installations*1

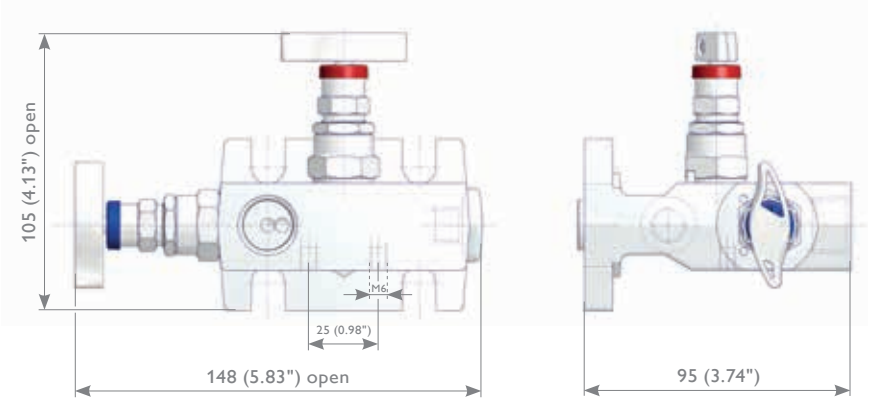
*1 Relevant Bracket Type see Pages 28-32.
*2 For W3B Types Option A is not relevant because it is already included.
*3 Not applicable for W5GA type with IEC 61518-B connection.
*4 Mentioned bolt length 1 3/4" not applicable for manifold type W3AB/W3BB - the bolt length depends here on the flange thickness of the flange on the process side.

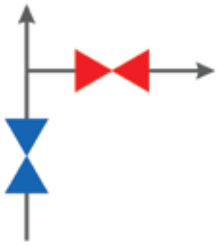
Wetted Parts according to a.m. material list are supplied according to NACE MR0175/MR0103 and ISO 15156 (latest issue) - except Titanium Grade 2.
Note: Not every configuration which can be created in the ordering information is feasible / available.

Direct Mount Manifolds - Traditional Style

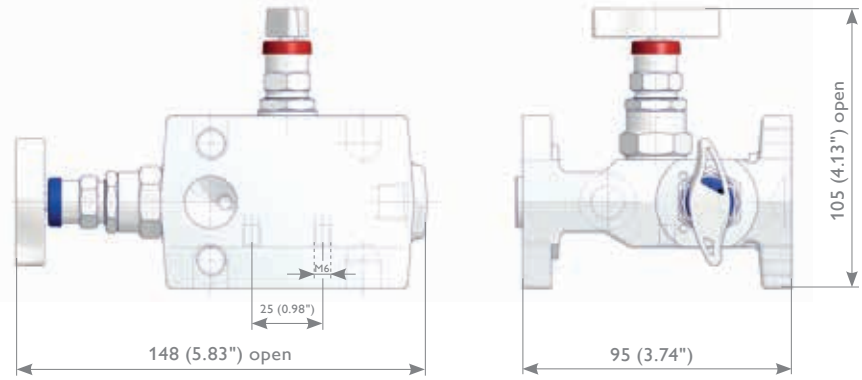
Traditional Style Manifolds

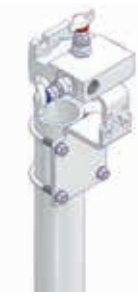
2 Valve Manifolds – Female x Flanged
T2A Type





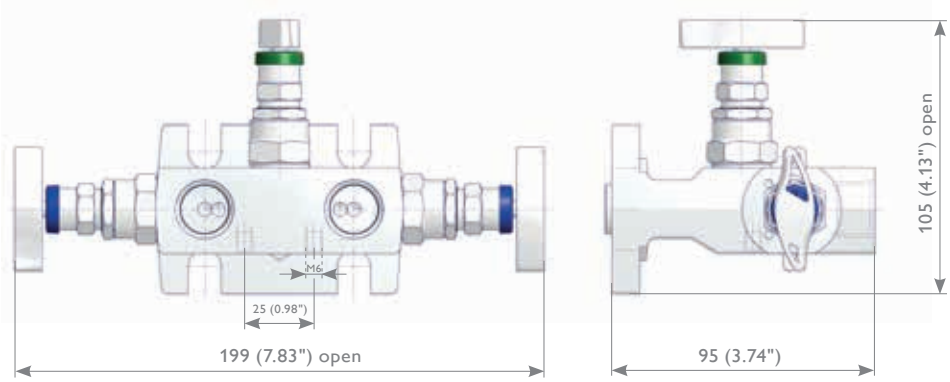
2 Valve Manifolds – Flanged x Flanged
H2A Type

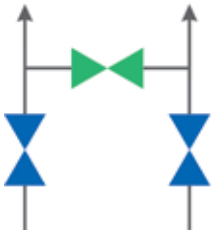




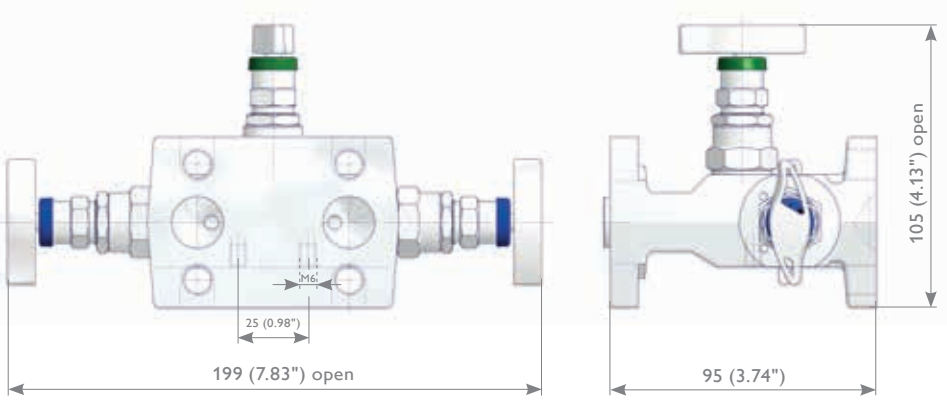
Mounting Bracket
AKM-U Type
See also Page 49.

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

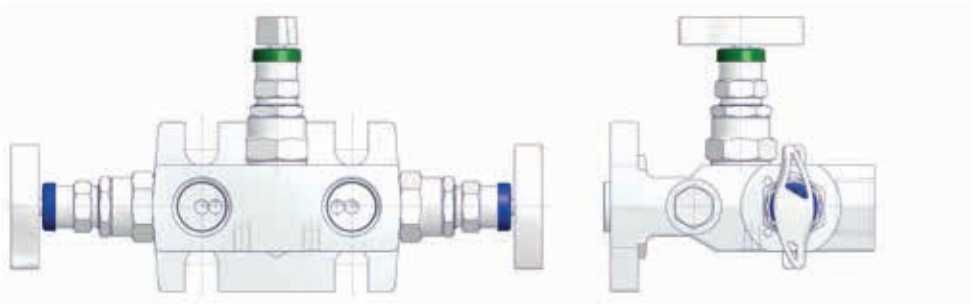


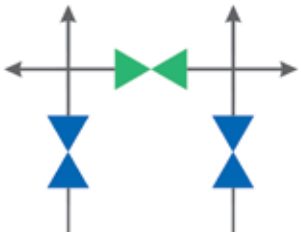


H3A Type – Flanged x Flanged

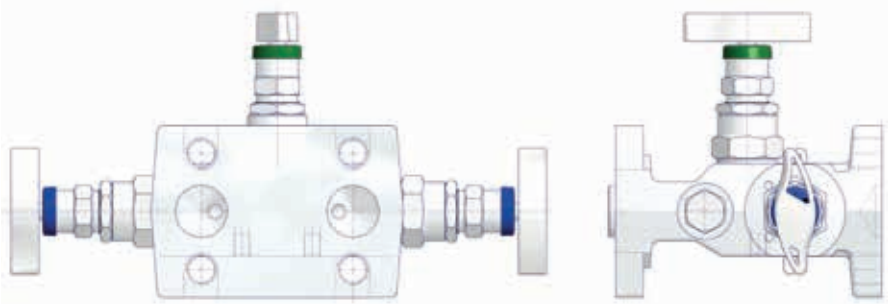


3 Valve Manifolds – With Vent Connection
T3B Type – Female x Flanged





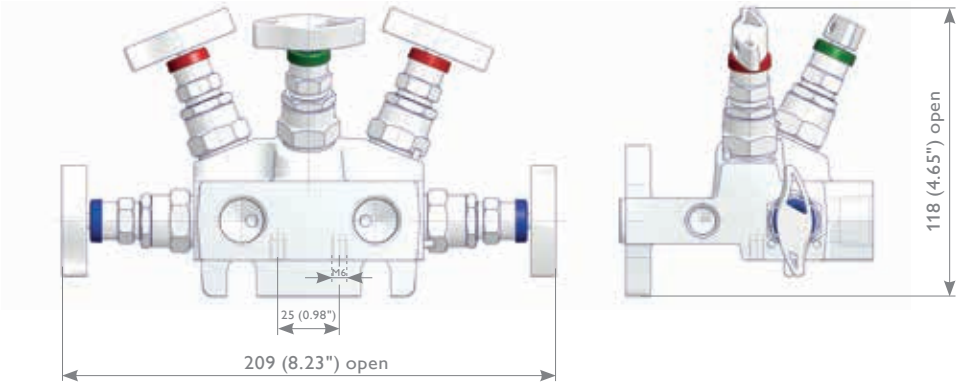
H3B Type – Flanged x Flanged

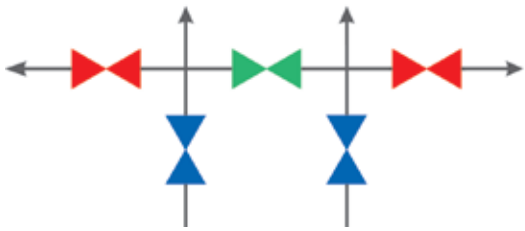


Mounting Bracket
AKM-U Type
See also Page 49.

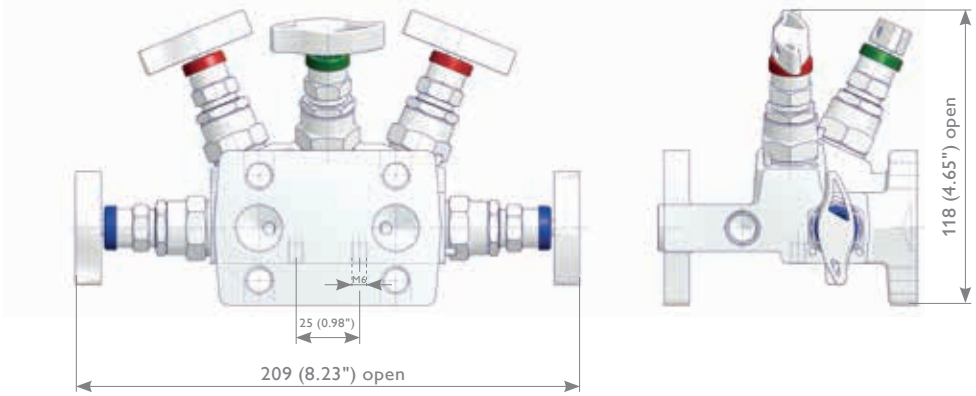
Direct Mount Manifolds - Traditional Style

5 Valve Manifolds – Female x Flanged
T5A Type

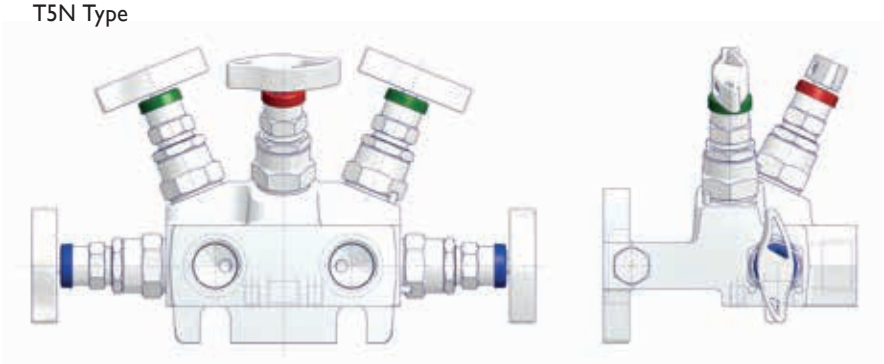


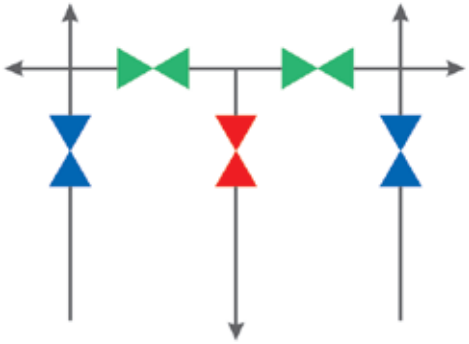


5 Valve Manifolds – Flanged x Flanged
H5A Type

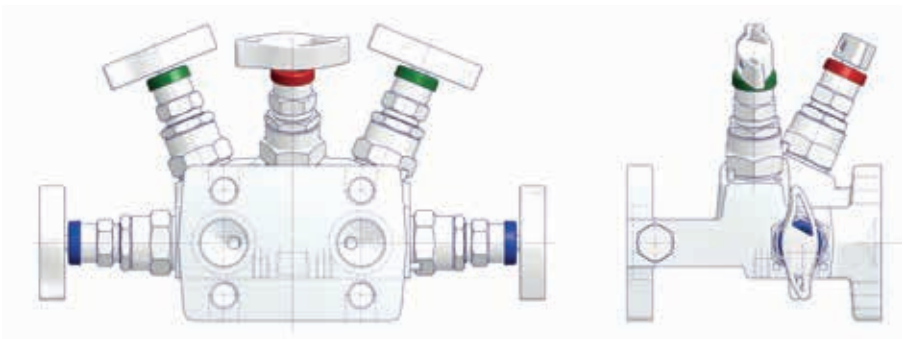


5 Valve Manifolds with Natural Gas Metering Pattern
T5N Type





H5N Type



Mounting Bracket
AKM-U Type
See also Page 49.

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		

H	**H-Style Manifolds**
T	**T-Style Manifolds**

Quantity Bonnets – 2-5

Manifold Specifics

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*2
N	Natural Gas Metering Pattern – For 5 Valve Manifolds only

Inlet

A	Female – For T-Style Manifolds only
B	Flanged – For H-Style Manifolds only
C	1/2 NPT with Tube Fittings – For T-Style Manifolds only

Material

S	1.4401 / 1.4404 / 316 / 316L	F	Duplex UNS S31803	B	6Mo UNS S31254
M	Alloy 400 UNS N04400	D	Super Duplex UNS S32750	T	Titanium Grade 2
H	Alloy C-276 UNS N10276	V	Alloy 625 UNS N06625		

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	T	Flange Interface
		K	Twin Ferrule Tube Fitting		

Thread Size		Tube Fitting Sizes		Flange Interface	
4	1/2	4	12 resp. 12S	4	EN 61518
		5	14 resp. 14S		
		9	1/2"		

Outlet

Transmitter Interface

TD	DIN EN 61518-A
TE	DIN EN 61518-B

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*2
P	Power Piping ASME B31.1 – For Graphite Packing only
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

Standard Accessory Kits for Manifold to Transmitter mounting according to DIN EN 61518 / IEC 61518

1	Hex Cap Screw 7/16-20 UNF, Bolt Length 1" and Washer in S.S., PTFE Seal Rings
2	Hex Cap Screw 7/16-20 UNF, Bolt Length 1" and Washer in S.S., PTFE Seal Rings*3
3	Hex Cap Screw 7/16-20 UNF, Bolt Length 1" and Washer in S.S., Graphite Seal Rings
4	Hex Cap Screw 7/16-20 UNF, Bolt Length 1" and Washer in S.S., Graphite Seal Rings*3

Mounting Bracket Kits

9	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 I ASTM A193 B8 Class 2

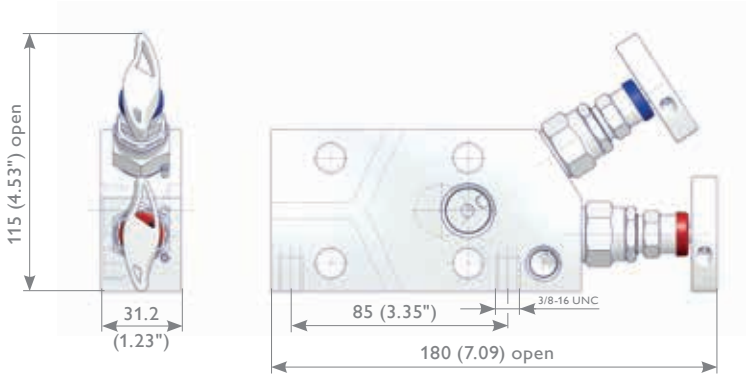
Wetted Parts according to a.m. material list are supplied according to NACE MR0175/MR0103 and ISO 15156 (latest issue) - except Titanium Grade 2.
Note: Not every configuration which can be created in the ordering information is feasible / available.

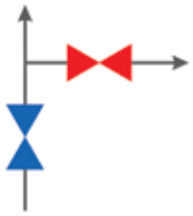
Direct Mount Manifolds - Integral Style

Integral Manifolds for Rosemount 2051/3051 Coplanar™ Pressure Transmitters

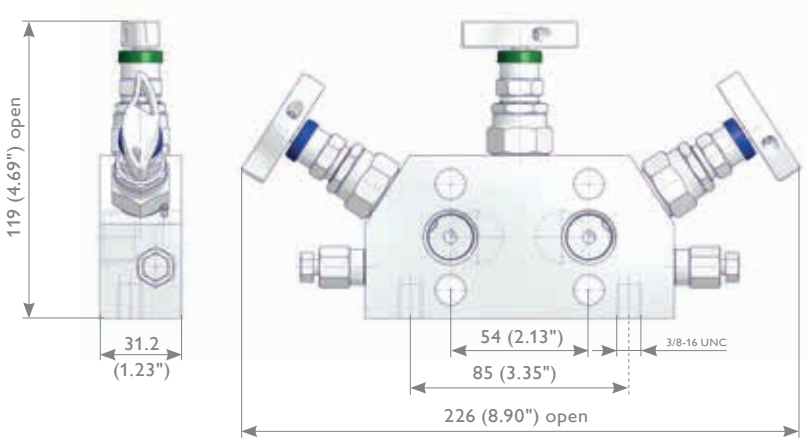
Coplanar™ Style Manifolds

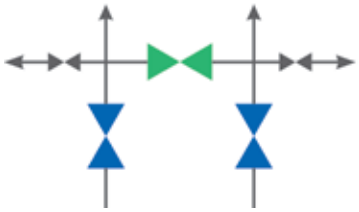
2 Valve Integral Manifolds
W2RA Type



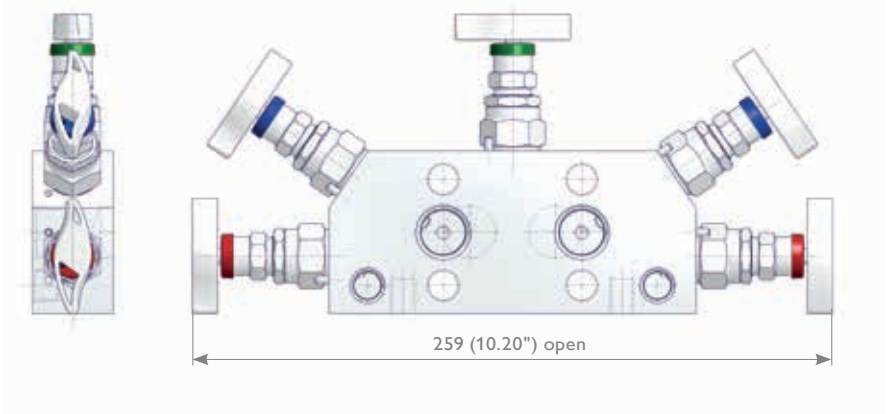


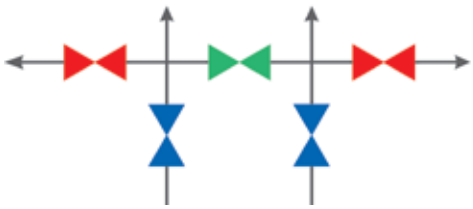
3 Valve Integral Manifolds
W3RA Type
Supplied as standard with vent valves – fitted





5 Valve Integral Manifolds
W5RA Type

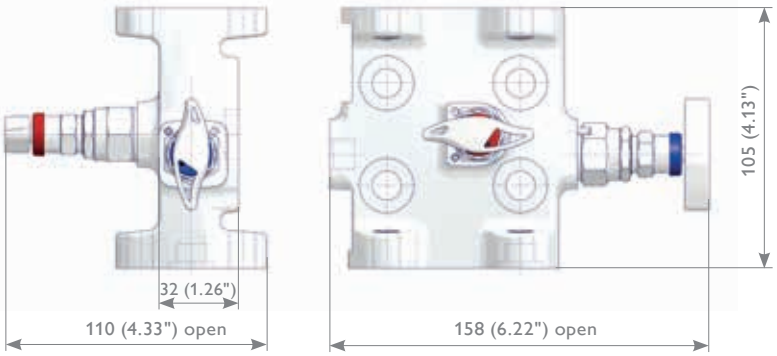


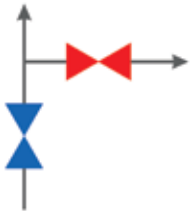


Mounting Bracket
AKM-C Type
See also Page 48.

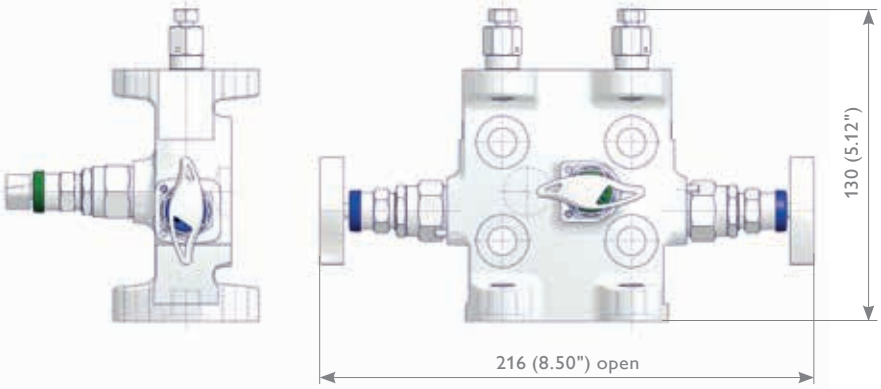
Traditional Style Integral Manifolds
Inlet with Flange Interface DIN EN 61518 / IEC 61518 and 1/4 NPT female only.

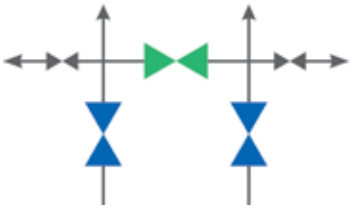
2 Valve Integral Manifolds
H2TB Type



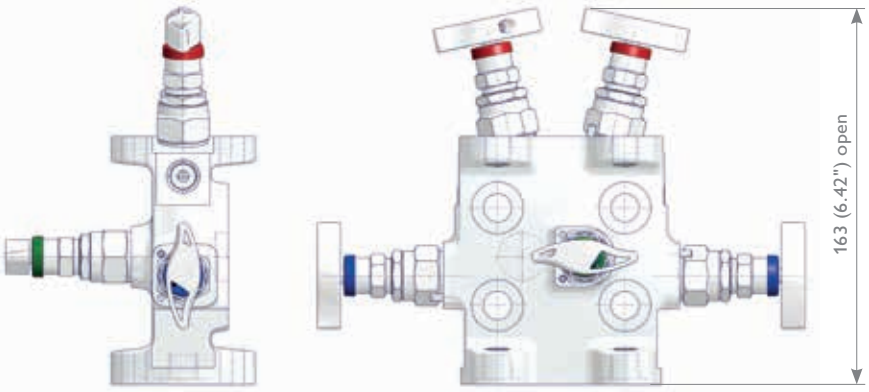


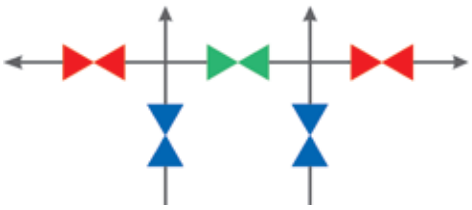
3 Valve Integral Manifolds
H3TB Type
Supplied as standard with vent valves – fitted





5 Valve Integral Manifolds
H5TB Type





Mounting Bracket
AKM-T Type
See also Page 49.

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	B	6Mo UNS S31254
M	Alloy 400 UNS N04400	D	Super Duplex UNS S32750	T	Titanium Grade 2
H	Alloy C-276 UNS N10276	V	Alloy 625 UNS N06625		

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	T	Flange Interface
		K	Twin Ferrule Tube Fitting		

Thread Size		Tube Fitting Sizes		Flange Interface	
4	1/2	4	12 resp. 12S	3	EN 61518 with 1/4 NPT Female – For Traditional Style Integral Manifolds
		9	1/2"		

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 – For Graphite Packing only
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.

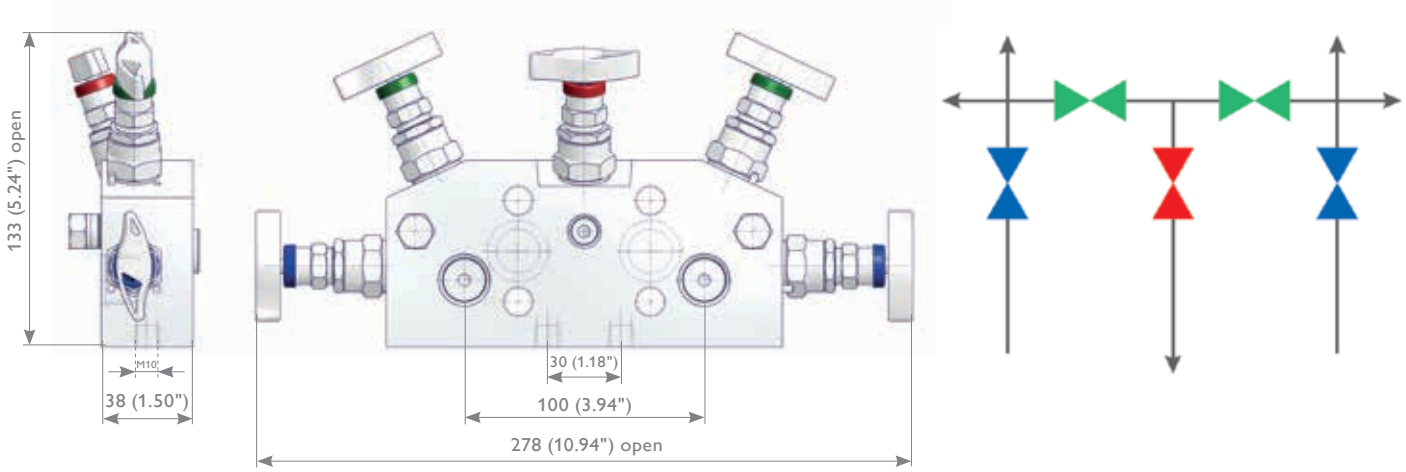
5 Valve Manifolds with Natural Gas Metering Pattern

5 Valve Manifolds with Natural Gas Metering Pattern

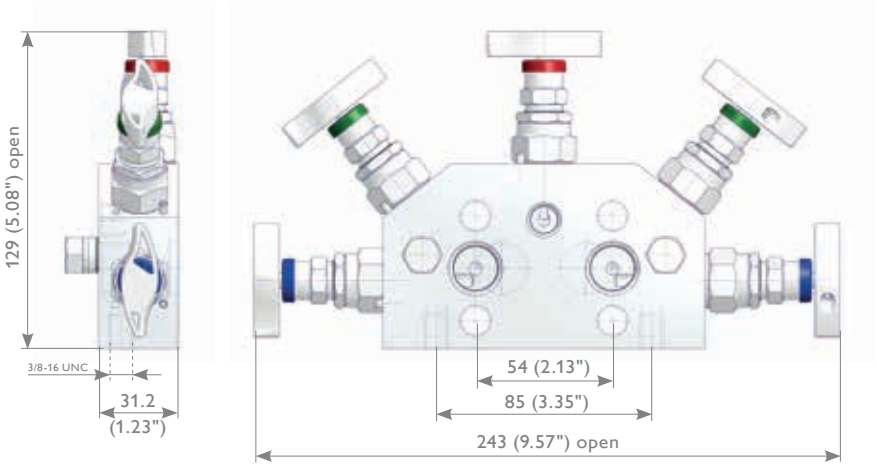
AS-Schneider is manufacturing various 5 Valve Manifold Designs with Natural Gas Metering Pattern for direct mounting to Differential Pressure Transmitters – either Transmitters with standard flange connection in accordance with IEC 61518 or alternatively to Rosemount 2051/3051 Coplanar™ Pressure Transmitters. 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)

Mounting Bracket
AKM-C Type
See also Page 48.

Manifold Type A
(DIN EN 61518 / IEC 61518)

Mounting Bracket
AKM-D Type
See also Page 48.

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	

5	**5 Valve Manifolds with Natural Gas Metering Pattern**

Manifold Type

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

Vent Connection

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		

Inlet

F	Female
T	Tube Fitting

Material

S	1.4401 / 1.4404 / 316 / 316L	F	Duplex UNS S31803	B	6Mo UNS S31254
M	Alloy 400 UNS N04400	D	Super Duplex UNS S32750	T	Titanium Grade 2
H	Alloy C-276 UNS N10276	V	Alloy 625 UNS N06625		

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 Size		Fitting Type		Tube Fitting Sizes	
N4	NPT	C	Single Ferrule Tube Fitting	4	12 resp. 12S
		K	Twin Ferrule Tube Fitting		

Test Connection

A	1/4 NPT Female plugged

Outlet

Transmitter Interface

D	DIN EN 61518-A
F	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 – For Graphite Packing only
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

Accessory Kits for Manifold to Transmitter mounting according to DIN EN 61518 - For 5A Type only (not for 5D Type)

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*

Mounting Bracket Kits

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 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.

Enclosure Manifolds EDM Series (2, 3 and 5 Valve Manifolds)

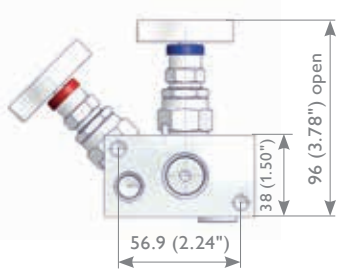
AS-Schneider Enclosure Manifolds EDM Series are manufactured for applications that require the transmitter to be mounted in an enclosure for environmental protection. The standard vent connection is 1/4 NPT female. Pipe plugs are not installed as standard. For plugged vent ports (factory installed) and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

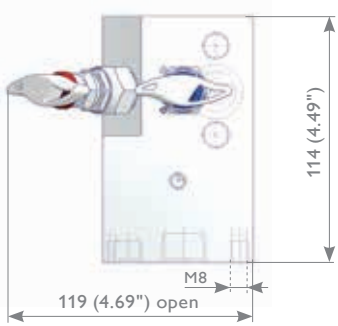
The dimensions shown apply only to the illustrated valves (1/2 NPT Threaded) – if you need the dimensions for your individual type or should you still not find your options at all please contact the factory.

2 Valve Manifolds

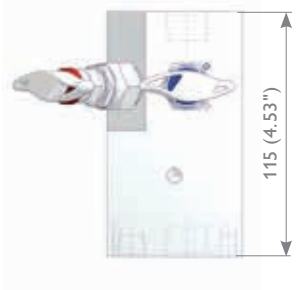
Transmitter Connection

Acc. to DIN EN 61518
E2AA Type

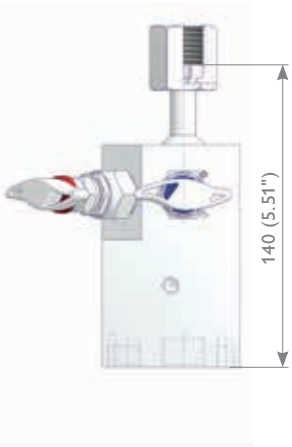


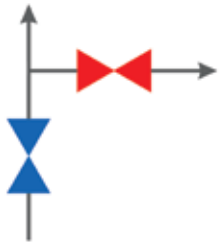


1/2 NPT Female
E2AC Type



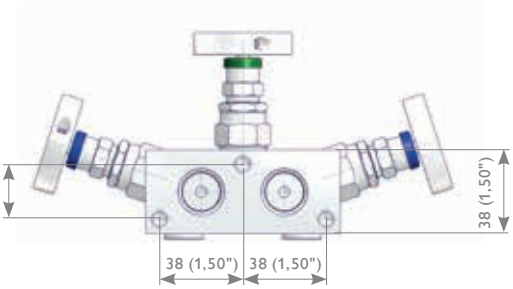
Swivel Nut
E2AE Type

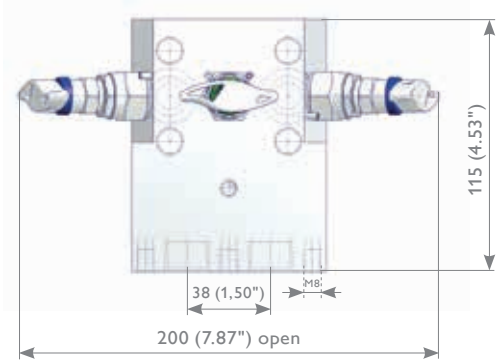


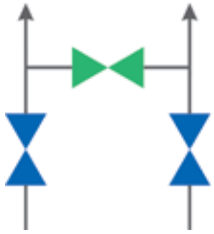


3 Valve Manifolds – Female x Flanged

E3AA Type



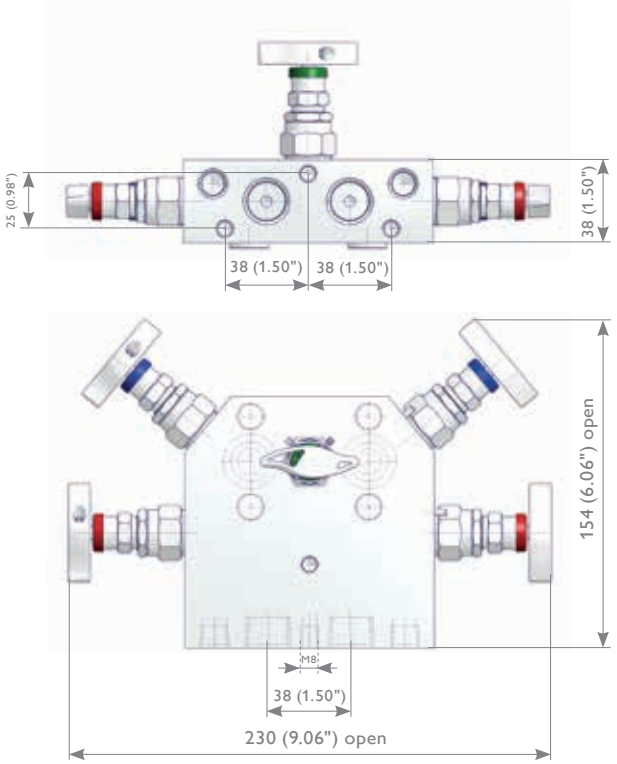


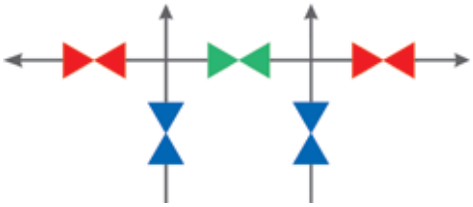


Enclosure Manifolds EDM Series

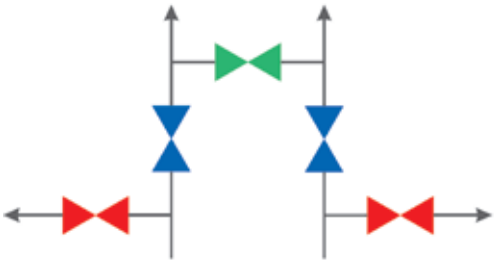
5 Valve Manifolds – Female x Flanged

– 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			

E	**Enclosure Manifolds EDM Series**

Quantity Bonnets – 2-5

Manifold Specifics

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)

Inlet x Outlet Configuration

A	Female x Flanged	D	1/2 NPT with Tube Fitting x Female
B	1/2 NPT with Tube Fitting x Flanged	E	Female x Swivel Nut
C	Female x Female	F	1/2 NPT with Tube Fitting x Swivel Nut

Material

S	1.4401 / 1.4404 / 316 / 316L	F	Duplex UNS S31803	B	6Mo UNS S31254
M	Alloy 400 UNS N04400	D	Super Duplex UNS S32750	T	Titanium Grade 2
H	Alloy C-276 UNS N10276	V	Alloy 625 UNS N06625		

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	
N	NPT	C	Single Ferrule Tube Fitting
		K	Twin Ferrule Tube Fitting

Thread Size		Tube Fitting Sizes	
2	1/4	4	12 resp. 12S
4	1/2	5	14 resp. 14S
		9	1/2"

Outlet

Thread Size - 2 Valve Manifolds only		Transmitter Interface	
N4	1/2 NPT Female	TD	DIN EN 61518-A
G4	G 1/2 Swivel Nut	TE	DIN EN 61518-B
M4	M 20 x 1.5 Swivel Nut	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 – For Graphite Packing only
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

Standard Accessory Kits for Manifold to Transmitter mounting according to DIN EN 61518 / IEC 61518

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

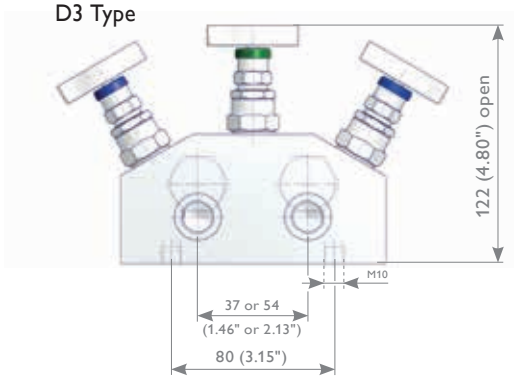
Differential Pressure Gauge Manifolds

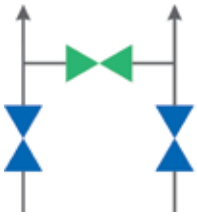
AS-Schneider Manifolds for Differential Pressure Gauges are available with a center to center distance of 37 mm or 54 mm as standard. The instrument connections are supplied with a Swivel Nut or a Swivel Male Connection. The standard vent connection is 1/4 NPT female. Pipe plugs are not installed as 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.

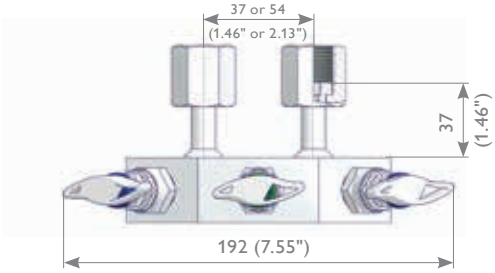
The dimensions shown apply only to the illustrated valves (G 3/8 Threaded) – if you need the dimensions for your individual type or should you still not find your options at all please contact the factory.

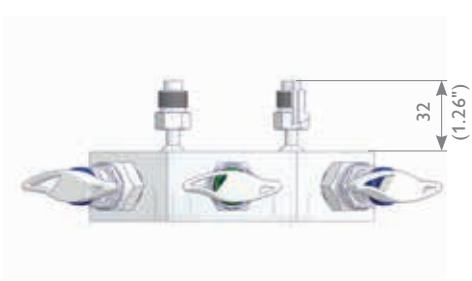
3 Valve Manifolds for Differential Pressure Gauges

D3 Type



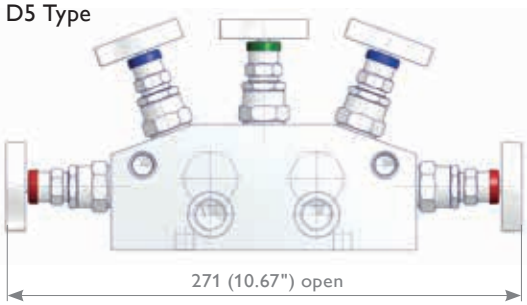


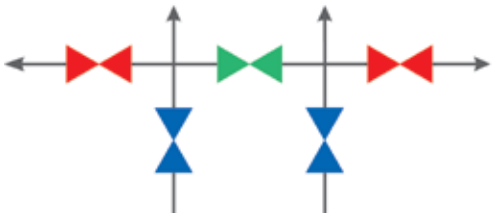




5 Valve Manifolds for Differential Pressure Gauges

D5 Type



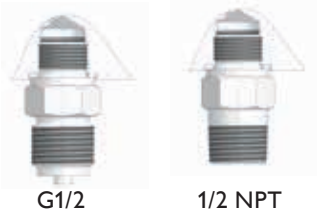


Inlet Configurations

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	-	8	M		

D	**Differential Pressure Gauge Manifolds**

	Quantity Bonnets – 3 or 5

	Manifold Specifics

	Thread Size Inlet x Distance from Center to Center for Differential Pressure Gauge		
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

	Inlet x Outlet Configuration		
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

	Material				
S	1.4401 / 1.4404 / 316 / 316L	F	Duplex UNS S31803	B	6Mo UNS S31254
M	Alloy 400 UNS N04400	D	Super Duplex UNS S32750	T	Titanium Grade 2
H	Alloy C-276 UNS N10276	V	Alloy 625 UNS N06625		

	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**		**Tube Fitting Sizes**
N4	1/2 NPT	C	Single Ferrule Tube Fitting	4	12 resp. 12S
H3	G 3/8 – DIN 3852 (Female only)	K	Twin Ferrule Tube Fitting	5	14 resp. 14S
G4	G 1/2 – EN 837-1 (Male only)			9	1/2"

	Outlet
	Thread Type
G2	G 1/4 Swivel Male
G4	G 1/2 Swivel Nut or Swivel Male
M4	M 20 x 1.5 Swivel Nut

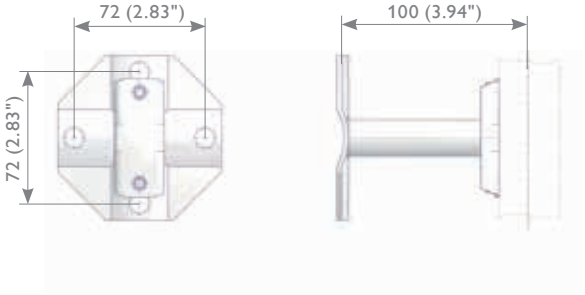
	Options - Specify in alphabetical order (digits first, then letters)
B	Cleaned and Lubricated for Oxygen Service – For PTFE Packing only
F	PCTFE Soft Tip
G	POM Soft Tip
S	Stellite Valve Tip
A	Vent Ports Plugged
H	10,000 psi (689 bar) for PTFE Packing I 7,252 psi (500 bar) for Graphite Packing
P	Power Piping ASME B31.1 – For PTFE Graphite Packing only
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
	Accessory Kits
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

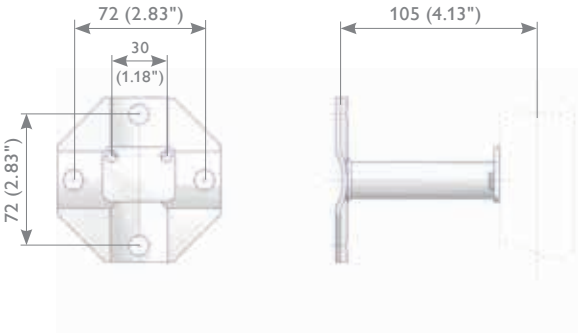
Mounting Bracket Kits for Vertical Impulse Piping Installations

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

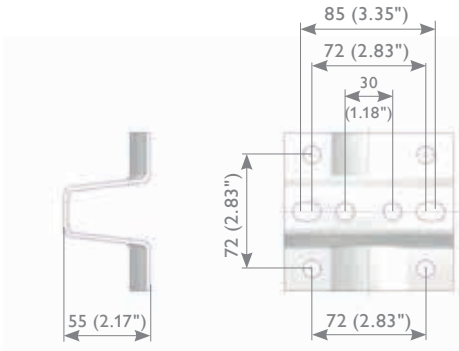


AKM-R Type
For Manifolds with 1 1/4" Flat Body
(Type P and R)

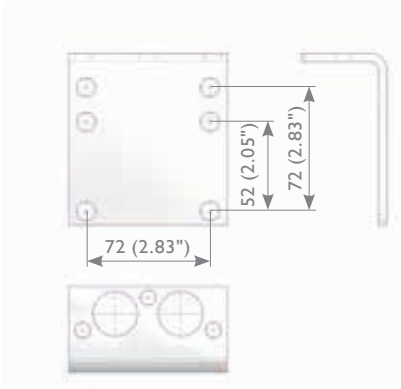
AKM-G Type
For Double Block & Bleed Manifolds
(Type C)



AKM-D Type and AKM-C Type
For Manifolds Type D, W and 5



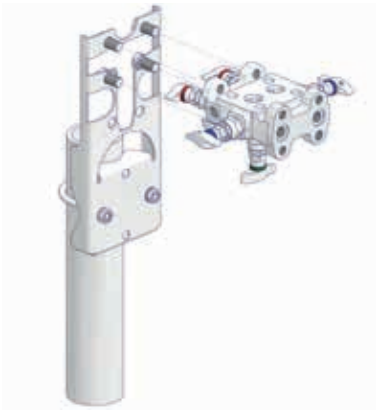
AKM-B Type
For Wafer Style Manifolds with
Bottom Inlet Design

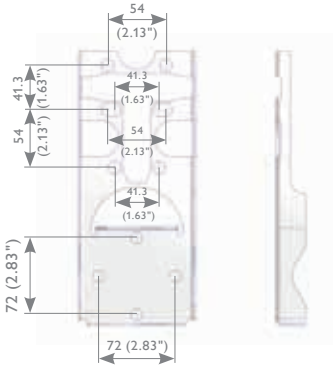


Mounting Bracket Kits for Horizontal Impulse Piping Installations

AKM-T Type

For Integral Manifolds – Traditional Style

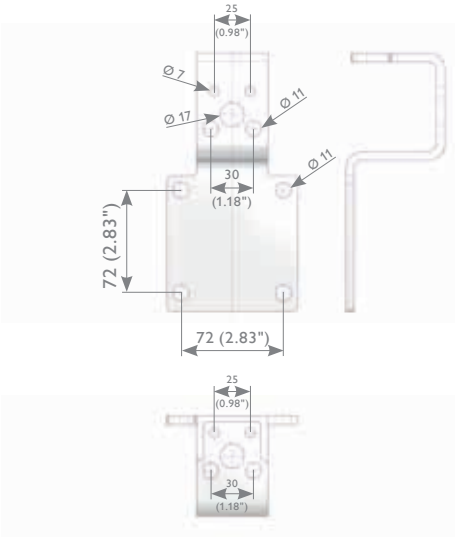




Mounting Bracket Kits for Horizontal and Vertical Impulse Piping Installations

AKM-U Type

For Manifolds Type H, W and T



Ordering Information

1	2	3	4	5	6	7	8	9
A	K	M	-	S	P	S	-	

AKM	**Mounting Bracket Kits**
	Mounting Bracket incl. screws for mounting the bracket to the manifold (if applicable)
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
	Mounting Method
P	2" Pipe Mounting – incl. 'U' Bolt, Nuts and Washers
	Material
C	Carbon Steel zinc plated (only available Mounting Bracket Kit AKM-D and AKM-C)
S	316 Stainless Steel
H	Mandatory for Manifolds Type H and U-Type Bracket (incl. Spacer)

Mounting Bracket Kit

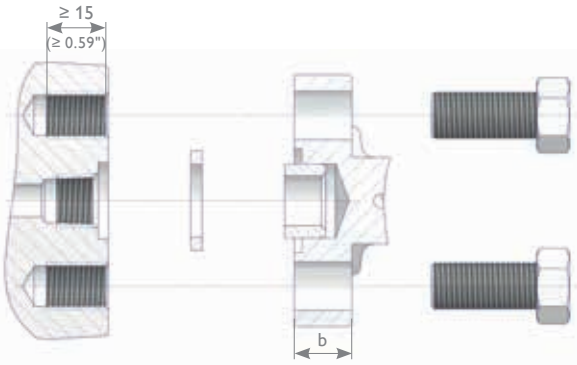
Mounting Bracket Kits on Page 48 and 49 are containing:

- 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.

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		

AKS	**Transmitter Mounting Kit**

Type of Screw

H	Hex Cap Screw
S	Socket Head Cap Screw

Thread Size

U	7/16-20 UNF – For Traditional Style Manifolds (see page 34-37) please use Option Code W – Incl. washer
M	M10 – Max. allowable (Working) Pressure (PS): 160 bar (2,320 psi) – Screws supplied with Washer
W	7/16-20 UNF – Screws supplied with Washers

Number of Screws and Seal Rings

2	2 Screws and 1 Seal Ring I For 2 Valve Manifolds and Oval Flanges
4	4 Screws and 2 Seal rings I For Differential Pressure Manifolds
5	4 Screws and 1 Seal Ring I For 2 Valve Manifolds Type H2A - For Gauge/Absolute Pressure Transmitters
8	4 Screws and 4 Seal Rings I For Wafer Style Manifolds together with Oval Flanges - Screw Length 2 3/4"

Material*

C	Carbon Steel I UNF Thread: Hex Cap Screw ASTM A449 - Type 1 I Socket Head Cap Screw ASTM A574 I Metric Thread: ISO 898-1 Class 8.8
S	304 Stainless Steel I UNF Thread: ASTM A193 B8 Class 2 I Metric Thread: ISO 3506 A2-70
M	316 Stainless Steel I UNF Thread: ASTM A193 B8M Class 2 I Metric Thread: ISO 3506 A4-70
F	316 Stainless Steel I UNF Thread: ASTM F593 GP2 CW

Seal Ring

	DIN EN 61518 Type A		DIN EN 61518 Type B
PA	PTFE	PB	PTFE
GA	Graphite	GB	Graphite
FA	O-Ring FPM (FKM by ASTM)		

Screw Length

	UNF Thread		Metric Thread
F25	1"	M25	25 mm
F38	1 1/2"	M40	40 mm
F44	1 3/4"	M45	45 mm
F51	2"	M50	50 mm
F70	2 3/4" (For Wafer Style Manifold c/w Oval Flange)		
F76	3" (For Rosemount 2051/3051 Coplanar™ Pressure Transmitter)		

Option

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!

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	... L3.0	... L4.0
N4, G4, M4			Standard		
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	**Pipe Plug**
VS	**Vent Valve with Bleed Screw**
VT	**Vent Valve with T Handle**

	Connection
M	Male

	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

	Threaded Connection
N2	1/4 NPT
N3	3/8 NPT
N4	1/2 NPT

	Options - Specify in alphabetical order (digits first, then letters)
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	**Female to Male Adaptor**
HN	**Hex Nipple –** Connections to be specified in alphabetical resp. ascending order. For example HNS-G4N4 (and not HNS-N4G4) resp. HNS-G2G4 (and not G4G2).

	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

	Inlet - FM Type Female Thread				
	Thread Type		**Inch Size**		**Metric Size**
N	NPT	2	1/4	4	M 20 x 1.5
G	BSP Parallel (G) – EN 837-1	4	1/2		
M	Metric similar to EN 837-1				

	Outlet				
	Thread Type		**Inch Size**		**Metric Size**
N	NPT	2	1/4	4	M 20 x 1.5
G	BSP Parallel (G) – EN 837-1	4	1/2		
M	Metric similar to EN 837-1				

	Options - Specify in alphabetical order (digits first, then letters)
B	Cleaned for Oxygen Service
L#.0	# → Available Lengths see table above – For Hex Nipples only

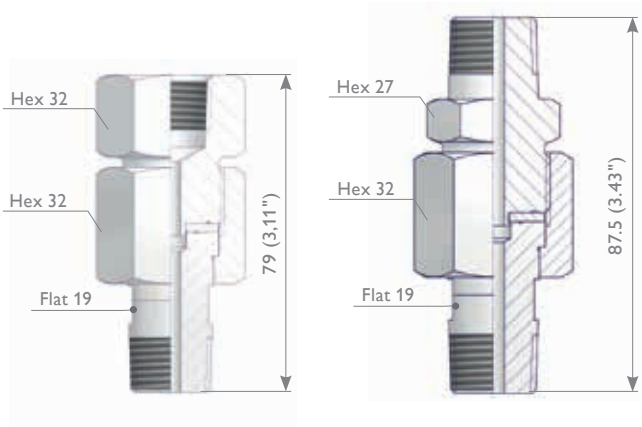
Part according to a.m. material list is supplied according to NACE MR0175/MR0103 and ISO 15156 (latest issue) - except Titanium Grade 2.

Accessories – Swivel Gauge Adaptors

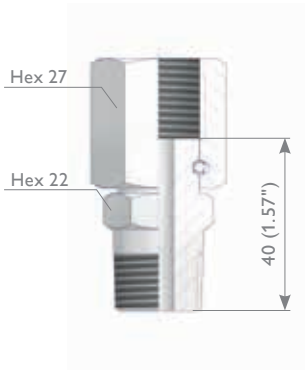
Swivel Gauge Adaptors

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		

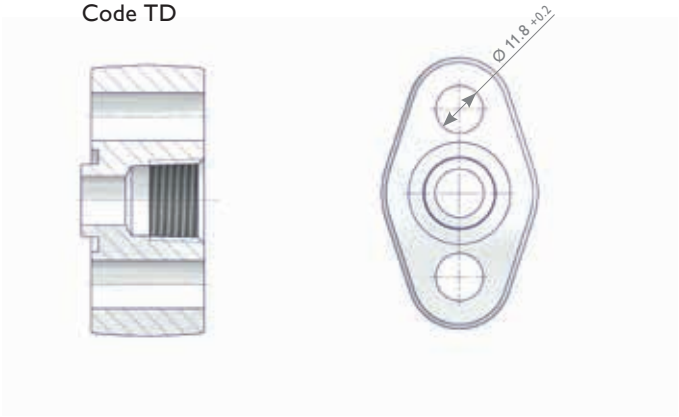
GS	**Swivel Gauge Adaptors – Screwed Design (10,000 psi / 689 bar)**				
GD	**Swivel Gauge Adaptors – Wire Design (6,092 psi / 420 bar)**				
	Inlet				
M	Male	F	Female		
	Outlet				
M	Male	S	Swivel Nut (GD Type)		
F	Female				
	Material				
S	1.4401 / 1.4404 / 316 / 316L	F	Duplex UNS S31803	V	Alloy 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
	Seal Ring				
P	PTFE (GS Type only*)				
S	Same Material as threaded components (GS Type only*)				
A	No Seal Ring required (GD Type only)				
	Inlet				
	Thread Type		**Thread Size**		
N	NPT	2	1/4		
G	BSP Parallel (G) – EN 837-1	4	1/2		
H	BSP Parallel (G) – DIN 3852				
	Outlet				
	Thread Type		**Thread Size**		
N	NPT	2	1/4		
G	BSP Parallel (G) – EN 837-1	4	1/2		
	Options - Specify in alphabetical order (digits first, then letters)				
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.

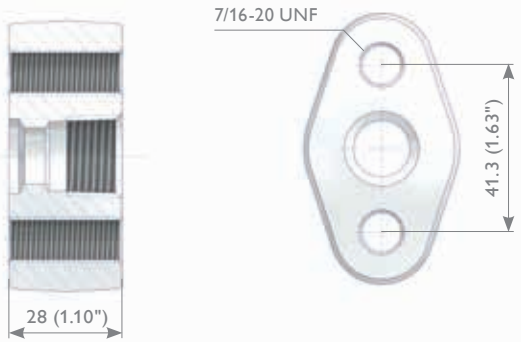
Wetted Parts according to a.m. material list are supplied according to NACE MR0175/MR0103 and ISO 15156 (latest issue) - except Titanium Grade 2.

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	

KF	**Oval Flange**

	Inlet
F	Female

	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
	Material Option S as forging, all other materials made from flat bar				

	Inlet		
	Thread Type		**Thread Size**
N	NPT	3	3/8
H	BSP Parallel (G) – DIN 3852	4	1/2 (NPT Thread only)

	Outlet (Flange Connection)
TD	Transmitter Interface DIN EN 61518-A
T4	Transmitter Interface DIN EN 61518

	Options - Specify in alphabetical order (digits first, then letters)
B	Cleaned for Oxygen Service (if ordered with Transmitter Mounting Kit – Only with PTFE Seal Ring available)

	Accessory Kits for Oval Flange to Manifold/Transmitter mounting according to DIN EN 61518 (Not for Assembly c/w Wafer Style Manifolds)
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

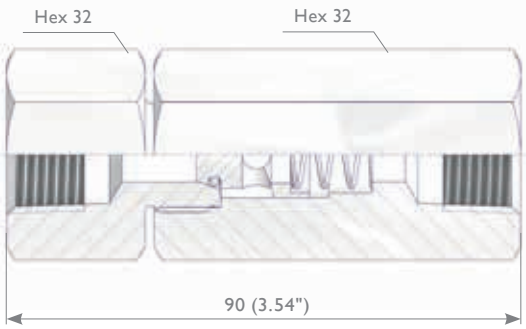
ATK-ES Type

Check Valves 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 max. allowable (Working) Pressure (PS)
- 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	

CV	**Check Valve**

Inlet

M	Male	F	Female

Outlet

F	Female

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

Seal Ring

K	FKM – Fluorocarbon Rubber
N	HNBR – Hydrogenated Nitrile Butadiene Rubber
P	FFKM – Perfluorinated Rubber

Inlet

N2	1/4 NPT
N4	1/2 NPT

Outlet

N2	1/4 NPT
N4	1/2 NPT

Options - Specify in alphabetical order (digits first, then letters)

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.

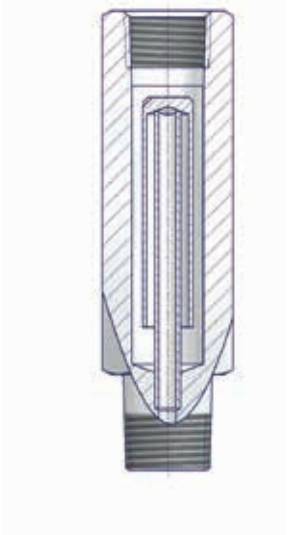
Complementary Products

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

Gauge Protectors

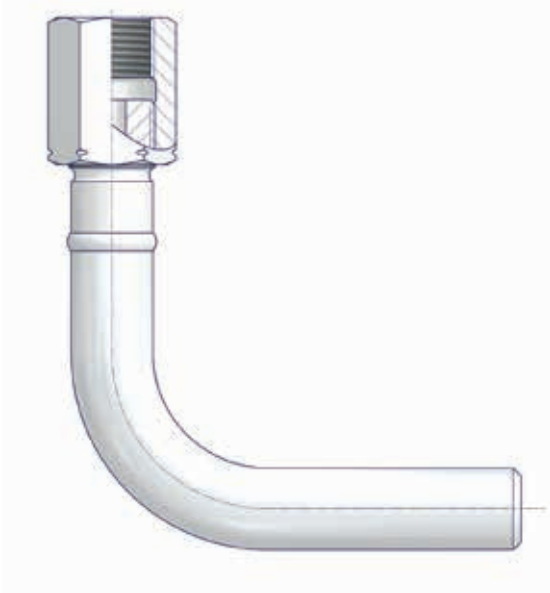
Gauge Snubbers

Compact Syphons



Coil Type Syphons / Pigtail Syphons

Elbows



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